Construction Quality Assurance CCR Certification Report

Cell 2 Construction

SWEPCO – John W. Turk, Jr. Power Plant Fulton, Arkansas Permit No. 0311-S3N-R1 AFIN: 29-00506

> March 2019 Project No. 35177127



A unit of American Electric Power

Prepared for:

American Electric Power 1 Riverside Plaza Columbus, OH 43215

Prepared by:

Terracon Consultants, Inc. 25809 Interstate 30 South Bryant, Arkansas 72022 (501) 847-9292







PROFESSIONAL ENGINEER'S CERTIFICATION

"I certify to the best of my professional judgment that the bottom liner system and leachate collection system for Cell 2 of the SWEPCO – John W. Turk, Jr. Power Plant Class 3N Landfill (Permit No. 0311-S3N-R1) was constructed in accordance with the permit plans and narrative, the project specifications, plans, and Title 40 of the Code of Federal Regulations 40 CFR 257.70. Any deviations from the permitted drawings and the reason for the deviation are also included in this report as necessary. This certification is contingent on the fact that all information supplied to the signatory authority, at the time of this certification is unquestionably accurate and was provided in good faith."



Mr wil

SWEPCO - JWTJPP Class 3N Landfill

CQA Certification Report Cell 2 Project No. 35177127 March 2019

David C. McCormick, P.E. Arkansas Professional Engineer Registration No. 9199

3/29/2019 Certification Date





TABLE OF CONTENTS

PROFESSIONAL ENGINEER'S CERTIFICATION

1.0 INTRODUCTION	.3
1.1 GENERAL 1.2 SITE DESCRIPTION 1.3 PROJECT DESCRIPTION 1.4 KEY PERSONNEL	.3 .3 .3 .6
2.0 SUBGRADE PREPARATION	7
2.1 PROJECT SPECIFICATIONS	.7
3.0 CLAY LINER SYSTEM INSTALLATION	7
3.1 PROJECT SPECIFICATIONS 3.2 CONSTRUCTION PROCEDURES 3.3 PRE-CONSTRUCTION TESTING OF THE CLAY LINER MATERIAL	.7 .7 .7
4.0 GEOSYNTHETIC LINER INSTALLATION	.9
 4.1 MANUFACTURE'S QUALITY CONTROL CERTIFICATES. 4.2 MATERIAL CONFORMANCE TESTING. 4.3 DEPLOYMENT OF GEOSYNTHETICS	.9 .9 10 10 10
5.0 LEACHATE COLLECTION SYSTEM AND PROTECTIVE COVER	11
5.1 LEACHATE COLLECTION PIPE 5.2 PROTECTIVE COVER SOIL	11 11

LIST OF TABLES

- TABLE 1
 SOILS PRE-CONSTRUCTION TEST SUMMARY
- TABLE 2SOILS CONSTRUCTION TEST SUMMARY
- TABLE 3 PERMEABILITY RESULTS SUMMARY
- TABLE 4
 LEACHATE COLLECTION GRAVEL TEST SUMMARY



LIST OF FIGURES

- FIGURE 1 SITE LOCATION MAP
- FIGURE 2 SITE LAYOUT MAP
- FIGURE 3 TOP OF SUBGRADE
- FIGURE 4 CLAY LINER FIRST LIFT
- FIGURE 5 CLAY LINER SECOND LIFT
- FIGURE 6 CLAY LINER THIRD LIFT
- FIGURE 7 CLAY LINER FOURTH LIFT
- FIGURE 8 CLAY LINER FIFTH LIFT
- FIGURE 9 CLAY LINER PIPE PENETRATIONS

LIST OF APPENDICES

- APPENDIX A AS-BUILT DRAWINGS APPENDIX B DAILY PROJECT FIELD RECORDS APPENDIX C SOIL PRE-CONSTRUCTION AND CONSTRUCTION TESTING APPENDIX D FIELD MOISTURE/DENSITY TEST RESULTS APPENDIX E CLAY LINER PERMEABILITY TEST RESULTS APPENDIX F GEOSYNTHETICS INSTALLER'S INFORMATION GEOSYNTHETICS INVENTORY LISTING APPENDIX G GEOMEMBRANE MANUFACTURER'S QC CERTIFICATES APPENDIX H APPENDIX I GEOMEMBRANE CONFORMANCE TEST RESULTS APPENDIX J GEOMEMBRANE EQUIPMENT CALIBRATION CERTIFICATE SUBGRADE ACCEPTANCE CERTIFICATE APPENDIX K APPENDIX L GEOMEMBRANE DAILY DEPLOYMENT LOGS APPENDIX M GEOMEMBRANE TRIAL WELD SUMMARY GEOMEMBRANE PANEL SEAMING AND NON-DESTRUCTIVE TEST SUMMARY APPENDIX N GEOMEMBRANE DESTRUCTIVE TEST LOG SUMMARY AND LABORATORY APPENDIX O TEST RESULTS GEOMEMBRANE REPAIR LOG SUMMARY APPENDIX P APPENDIX Q GEOCOMPOSITE MANUFACTURER'S QC CERTIFICATES APPENDIX R GEOCOMPOSITE CONFORMANCE TEST RESULTS APPENDIX S LEACHATE COLLECTION SYSTEM MATERIAL TEST RESULTS CONTRACTOR MATERIAL SUBMITTALS APPENDIX T APPENDIX U PROJECT PHOTOGRAPHIC LOG
- APPENDIX V DETAIL DRAWINGS
- APPENDIX W GROUNDWATER SEPARATION



1.0 INTRODUCTION

This construction quality assurance (CQA) report summarizes testing and documentation activities performed by Terracon Consultants, Inc (Terracon) during the construction of the bottom composite liner system, leachate collection system, and related work associated with Cell 2 at the SWEPCO – John W. Turk, Jr. Power Plant Class 3N Landfill located near Fulton, Arkansas. **FIGURE 1** illustrates the geographic location of the facility.

This document summarizes the earthwork, construction of the subgrade, compacted clay liner (CCL), bottom composite liner system, geosynthetics, leachate collection system, and the protective cover system. Correspondence, details, quality control test results, and certification associated with the construction are also provided. This document, in conjunction with the project as-built drawing, is intended to satisfy the requirements of 40 CFR Part 257.70 and Permit No. 0311-S3N-R1.

1.1 GENERAL

The construction of Cell 2 was conducted in accordance with the following documents:

- Ø "Construction Quality Assurance Plan", Southwestern Electric Power Company, John W. Turk, Jr. Power Plan, Class 3N Landfill, Terracon Consultants, Inc., January 10, 2011 Revised December 2015.
- Ø "Regulation Number 22, Solid Waste Management Rules", Arkansas Pollution Control and Ecology Commission.
- Ø "Permit Number 0311-S3N-R1", Effective Date June 29, 2018
- Ø Title 40 of the Code of Federal Regulations 40 CFR Part 257.70.

1.2 SITE DESCRIPTION

SWEPCO owns and operates a Class 3N Solid Waste Landfill (Landfill) located in Fulton County, Arkansas. The Landfill address is 3711 Highway 355 S, Fulton, Arkansas 71838. This will be the first constructed Landfill on this property. This Class 3N Landfill has been designed, constructed, and is permitted (Permit No. 0311-S3N-R1) by the Arkansas Department of Environmental Quality (ADEQ) to accept Class 3N wastes that are approved for acceptance in their permit. **FIGURE 2** illustrates the location and orientation of Cell 2 in relation to the facility's waste management area.

1.3 PROJECT DESCRIPTION

This project involved the construction of approximately 13.9 acres of composite bottom liner system and leachate collection system. The following information summarizes the construction sequence associated with the construction of Cell 2.

Ø Site preparation, excavation/fill to subgrade, and grading of cell area;



- Ø Installation and quality assurance testing of a 24-inch thick CCL, placed at 95% of the Standard Proctor density with a maximum hydraulic conductivity of 1.0×10^{-7} cm/s;
- Ø Installation and quality assurance testing of a 60-mil HDPE textured geomembrane liner;
- Ø Installation of a leachate collection system consisting of geocomposite, gravel, collection pipes embedded in gravel and geotextile; and
- Ø Installation of a protective cover layer with lateral chimney drains.
- Ø Verification of separation distances from the groundwater.

The CQA Report is organized using tables, figures, and appendices to provide documentation of the observations and material testing during the construction of Cell 2. Daily project field records are presented in **APPENDIX B**.

As required by 40 CFR §257.70(b), the Class 3N Landfill conforms must consist of a composite liner system. The upper component consisted of a 60 mil-HDPE geomembrane liner and the lower component consisted of at least a two-foot layer of compacted soil with a hydraulic conductivity of no more than 1×10^{-7} centimeters per second (cm/sec). The Cell 2 Composite Liner Design Certification, dated July 16, 2018, by Terracon Consultants, Inc. confirms that the facility meets the requirements of 40 CFR 257.70 Design Criteria for new CCR Landfills and any later expansions of a CCR landfill.

The CQA Report includes record drawings of Cell 2 and the appendices and figures identify the following:

The limits of liner or final cover barrier construction;

FIGURE 2 and as-built drawings in **APPENDIX A** depict the limits of the constructed bottom liner system for Cell 2.

The top and bottom liner or final cover barrier elevations at 50' intervals referenced to the site grid coordinate system;

APPENDIX A provides the top and bottom elevations of the constructed bottom liner system at 50' intervals referenced to the site grid coordinate system.

Leachate Collection System Protective Cover identified at 50' elevations;

APPENDIX A provides the top and bottom elevations of the constructed drainage layer and protective cover system. A double-sided geocomposite was utilized in place of a granular drainage layer. However, a protective cover layer with chimney drains was placed on top of the geocomposite layer and was surveyed at 50-foot intervals. The protective cover layer was constructed with a 24-inch thick floor and 12-inch thick side slopes.

The location and elevation of slope breaks, leachate piping, leachate sumps and trenches, berms, and any other features which are material to the disposal area construction;



APPENDIX A provides the location and elevation information and other features of Cell 2 construction.

A key map showing the location of the construction in relation to the permitted design, along with an identification of areas previously constructed and areas yet to be constructed;

FIGURE 2 and drawings in **APPENDIX A** depict the limits of the constructed bottom liner system for Cell 2 in relation to the permitted design, along with an identification of areas previously constructed and areas yet to be constructed.

Compaction and permeability testing locations;

Field logs and Drawings in **APPENDIX E**, **APPENDIX F**, and **FIGURES 3 through 8** provide compaction and permeability test locations for the bottom liner system of Cell 2.

Indicate the lowest point of the liner constructed not including leachate trenches and sumps.

APPENDIX A provides the lowest point of the liner constructed not including leachate trenches and sumps. Cell 2 consists of a gravity flow system that drains to the Leachate Collection Pond.

The certifying professional shall make a statement that the cell was constructed in accordance with the permit drawings and narrative. The report should also include a list of any deviations from the permitted drawings, if they exist, and reasons for the deviations.

Cell 2 was constructed as close as possible and in accordance with the permit drawings and narrative and the plans and specifications. However, during construction the north end of the cell floor was raised to meet CCR groundwater separation requirements. A cross section map and a potentiometric surface map were constructed based on monitoring well seasonal high-water levels and test pits constructed during cell construction. The monitoring well water level data and the test pit data are illustrated in **APPENDIX W**. Cell 2 meets the five-foot separation requirements set forth by 40 CFR §257.60 based on information from the cross sections and potentiometric surf maps in **APPENDIX W**.



1.4 KEY PERSONNEL

SFC Contract Services, Inc. was contracted to perform the earthwork for the project including excavation and/or fill to subgrade, placement of the CCL in lifts, installation of the leachate collection system, placement of protective cover, and the other improvements at the site. Installation of the HDPE liner and geocomposite was contracted to Environmental Specialties International.

. The key personnel for each participating firm and suppliers in the project are listed below.

Ø Owner:

SWEPCO

- · Greg Witte, Project Manager
- Huck Young, Project Manager

Ø CQA Consultant:

Terracon Consultants, Inc.

- · Certifying Engineer: David C. McCormick, P.E.
- Project Manager: Tony Bardella
- · CQA Monitors: Matt Acree and Scott McDonald

Ø General Contractor:

SFC Contract Services, Inc.

- · Charlie Hickman, Site Superintendent
- Thomas Ashcraft, Site Foreman

Ø Soil Testing Laboratory:

Terracon (Cincinnati, Ohio)

· Laboratory Manager: Tim Goodall

Ø Survey Control:

MTG Engineers and Surveyors

Robert Murray

Ø Geosynthetic Testing Laboratory:

TRI Environmental

• Project Manager: Jennifer Tenney

Ø Geosynthetics Contractor:

Environmental Specialties International.

Mohammed Malimar, Project Manager





2.0 SUBGRADE PREPARATION

This section summarizes the excavation and establishment of the subgrade surface corresponding to the permitted design for Cell 2. The bottom grading plan conforms to the approved permit plans.

2.1 PROJECT SPECIFICATIONS

The project specifications called for the subgrade to be established to the lines and grades shown on the project construction plans. The elevations associated with the subgrade surface established are provided in **APPENDIX A**.

3.0 CLAY LINER SYSTEM INSTALLATION

The following section describes the construction of the CCL. The CCL corresponding to Cell 2 was constructed from May to July of 2018.

3.1 PROJECT SPECIFICATIONS

The project construction plans indicated the CCL was to be constructed with a minimum of four, 6-inch thick compacted lifts to form a minimum 24-inch thick re-compacted clay liner. Each clay lift was to be placed and compacted to 95% of the Standard Proctor maximum dry density at moisture content between 0 and 6 percent above the optimum moisture content for the clay material. As required in 40 CFR §257.70 (a)(i), the hydraulic conductivity of the clay was not to exceed 1 x 10^{-7} cm/s.

3.2 CONSTRUCTION PROCEDURES

Placement of the clay liner material was accomplished using excavators, 30 cubic yard haul trucks, dozers, a sheep-foot compactor, motor grader and a smooth drum roller. The clay liner was moisture conditioned during placement to achieve acceptable emplacement conditions. Dozers and motor grader spread and fine graded each lift. Compaction was achieved by utilizing a CAT 815 sheep-foot compactor. Five lifts of CCL were placed with the fifth lift placed as a protective layer over the required 2-foot CCL. The fifth lift was removed during finish grading. Finish grading of the surface was accomplished by utilizing global positioning system (GPS) devices attached to earth moving equipment. Drawings included in **APPENDIX A** provide the elevations associated with the top of the clay liner for the bottom liner system.

3.3 PRE-CONSTRUCTION TESTING OF THE CLAY LINER MATERIAL

Field and laboratory testing of the clay liner system material was completed as specified in the project specifications and the facility CQA plan, and as required by Arkansas Regulation No. 22.



APPENDIX C contains the results of the CCL pre-construction test samples. **TABLE 1** summarizes the results of the pre-construction test samples. The results indicate the materials meet or exceed the minimum project standards.

3.4 CONSTRUCTION TESTING OF COMPACTED CLAY LINER MATERIAL

During the construction of the CCL, 16 soil samples were obtained for laboratory testing to verify the consistency of the materials during construction. Of the samples obtained, 11 samples were tested as clay liner material. The results of the construction laboratory testing are included in **APPENDIX C. TABLE 2** summarizes the results obtained from laboratory testing of the CCL material. Based upon the results of the construction testing performed, the CCL materials comply with the project specifications.

Field moisture and density tests were performed at a minimum rate of one test for every 10,000 square feet per compacted lift. **FIGURE 3** through **FIGURE 7** depict the field test locations performed on each lift of the CCL. **FIGURE 8** illustrates the locations of the field tests for the clay liner installed around the leachate drainage lines. **APPENDIX D** includes the field logs for the moisture and density testing performed in association with the Cell 2 construction. Based upon the results of the moisture and density tests performed by Terracon, the CCL lifts comply with the project specifications.

Shelby tube samples were obtained from each lift at a minimum rate of one test for every 40,000 square feet. **FIGURES 3** through **FIGURE 8** illustrate the locations where the Shelby tube samples were taken for each compacted CCL lift. The tubes were sealed and delivered to the laboratory for permeability testing using a flexible-wall permeameter (ASTM D-5084). As indicated in **TABLE 3**, permeability results for the completed CCL meet the project requirements of less than or equal to 1.0x10⁻⁷ cm/s. **APPENDIX E** contains CCL permeability test results.





4.0 GEOSYNTHETIC LINER INSTALLATION

Installation of the geosynthetics for the bottom liner system of Cell 2 occurred during July and August 2018. Approximately 675,000 square feet of 60-mil textured HDPE geomembrane liner and double-sided geocomposite were installed in Cell 2 according to 40 CFR §257.70(b). The geosynthetics installer information for Environmental Services International (ESI) is provided in **APPENDIX F**.

4.1 MANUFACTURE'S QUALITY CONTROL CERTIFICATES

Manufacturer's Quality Control Certificates (roll certification reports) were submitted for comparison of the delivered material properties with the project specifications. Copies of the manufacturer's certificates for the geomembrane are provided in **APPENDIX G** and **APPENDIX H** respectively. The manufacturer's certificates for the geomembrane, geocomposite are provided in **APPENDIX R**. An inventory of the geomembrane, geocomposite used at the site is included in **APPENDIX G**. Based upon the manufacturer's quality control certificates, the supplied materials comply with the project specifications.

4.2 MATERIAL CONFORMANCE TESTING

A copy of the laboratory conformance test results on the geomembrane is included in **APPENDIX I** and a copy of the laboratory conformance test results on the geocomposite is included in **APPENDIX S**. Based upon the results of the conformance testing by TRI, the geomembrane and geocomposite supplied comply with the project specifications.

4.3 DEPLOYMENT OF GEOSYNTHETICS

Prior to the deployment of the geomembrane, the ESI field manager and the CQA monitor accepted the subgrade. A copy of the subgrade acceptance form is included in **APPENDIX L**.

Deployment of the panels was accomplished by use of a Track-hoe, Sky Track, Skid Steer, and manual labor to transport each panel into place. A Terracon field representative monitored the deployment of panels. The daily deployment logs for the geomembrane can be found in **APPENDIX L**. Panel layouts of the bottom liner system for Cell 2 are illustrated on the as-built drawings located in **APPENDIX A**.

Terracon field representatives reviewed each panel and noted any manufacturing and deployment defects for repair. The panels were anchored temporarily with sandbags to prevent wind damage. The panels were permanently anchored at the top of the slopes by anchor trenches filled and compacted with clay.



4.4 GEOMEMBRANE TRIAL SEAM MONITORING

Prior to startup of each seaming period (in the morning and after lunch), the fusion and extrusion welder operators were required to prepare a trial seam. The seams were tested in the field on a gauged tensiometer to check for machine failures or operator errors. **APPENDIX K** contains the calibration certificate for the geosynthetic installation field tensiometer. If the tests passed (in peel and in shear), the operator was then allowed to begin seaming. Trial seam logs are presented in **APPENDIX M**. The seams were checked for peel and shear. The coupons were required to exhibit a film tear bond (FTB) and to meet the project specifications for peel and shear strength in order to be acceptable.

4.5 GEOMEMBRANE SEAM MONITORING

The primary seaming method used for joining geomembrane panels was through an automated double track fusion welder. Extrusion welding was used for patches, repairs, intersections of fusion seams, and seam reconstruction. Monitoring of the seaming methods consisted of periodic visual observation of the seaming process, visual examination of the completed seam, and verification that the seam was welded for its entire length. **APPENDIX N** presents a summary of the panel seaming. Seaming imperfections were marked and subsequently repaired in accordance with the project CQA plan. The geomembrane panel layouts showing seam locations are presented on the as-built drawing in **APPENDIX A**.

4.6 NON-DESTRUCTIVE SEAM TESTING AND REPAIR MONITORING

Seams, seam repairs, and patches were non-destructively tested by the installer using an air pressure test for fusion welds or vacuum box techniques for extrusion welds. Terracon field CQA personnel monitored and documented field testing of the seams to ensure that the tests were performed in accordance with the project CQA plan. Summaries of the geomembrane continuity testing are presented in **APPENDIX N**. The location, size, and testing results of seam repairs and patches were documented. Copies of this documentation can be found in **APPENDIX P**.

4.7 DESTRUCTIVE SEAM STRENGTH TESTING

Each destructive sample was divided into three sections: a sample for field testing, a sample for laboratory testing, and an archive sample. Prior to sending the samples to TRI Environmental, Inc. (TRI), they were tested in the field for peel and shear by ESI using a gauged tensiometer. Summaries for the field destructive sampling and laboratory testing for peel and shear are located in **APPENDIX O**. Destructive samples were obtained at a minimum frequency of one sample per 500 linear feet of production seam length. The destructive test locations are noted on the as-built drawing located in **APPENDIX A**. Based on the results of the seam peel and shear testing performed by ESI and TRI, each seam complies with the project specifications.



5.0 LEACHATE COLLECTION SYSTEM AND PROTECTIVE COVER

The leachate collection system consists of a geocomposite drainage layer overlying the HDPE liner and gravel chimney drains spaced at a maximum of 85-ft apart. The protective cover layer consists of a 12-inch layer on the sides slope and a 24-inch thick on the floor using on-site soils. This flows to the leachate collection trench. The leachate collection system pipe and gravel envelope were placed in the trench and design to gravity drain to the composite lined Leachate Collection Pond (LCP) according to 40 CFR §257(d).

5.1 LEACHATE COLLECTION PIPE

Leachate collection pipes were installed in the bottom of Cell 2 above the composite liner system. The center leachate collection trench pipe consists of a twelve-inch diameter perforated HDPE pipe surrounded by gravel and wrapped in a filter geotextile. The chimney drains consist of a four-inch diameter perforated HDPE pipe surrounded by gravel and wrapped in a filter geotextile. The gravel consists of a material that has less than 5% passing the #200 sieve and permeability faster than 3×10^{-1} cm/sec. **TABLE 4** presents the results of laboratory testing of the gravel. The gravel was installed above a double-sided geocomposite layer and wrapped in an 8 oz non-woven geotextile that protects the system from clogging. The collection pipe gravity drains from the south side of Cell 2 to the north side of Cell 2. The gravity drain then proceeds through a double walled piping system towards the composite lined LCP located to the northwest of Cell 2. **APPENDIX S** presents the laboratory test results on the gravel, protective cover and geotextiles used in the drainage system. Sediment was prevented from entering the pipe and gravel bedding during construction.

The leachate collection piping consisted of double-walled SDR-11 HDPE pipe after it penetrated Cell 2's composite liner system. The pipe trenches were backfilled with clay liner material. **FIGURE 8** shows the approximate test location of the Cell 2 pipe trenches and **APPENDIX D** contains the density test results. Also, the piping system from Cell 2 to the Leachate Collection Pond was pressure tested according to the specifications to verify that the system was installed correctly (See **APPENDIX S**).

5.2 PROTECTIVE COVER SOIL

A 12-inch (min) thick protective cover layer was placed on top of the geocomposite on the side slopes and a 24-inch (min) thick protective cover layer on the floor of Cell 2. The protective cover layer was constructed utilizing on-site soils and gravel chimney drains on a maximum of 85-ft spacing. **APPENDIX U** presents the laboratory test results on the chimney drain gravel. **TABLE 4** presents the results of laboratory testing of the chimney drain gravel. The survey record drawing provided in **APPENDIX A** illustrates the top of the protective cover layer. The layer was placed using low ground pressure dozers while maintaining a 12-inch thick minimum working surface to ensure protection of the underlying geosynthetic material.



A unit of American Electric Power

TABLE 1

SOIL PRE-CONSTRUCTION TEST SUMMARY

SWEPCO - John W. Turk, Jr. Power Plant - Landfill Cell 2

Material ID	Max Dry Density (PCF)	Optimum Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index (>10)	Passing 1" (100%)	Passing #4 (>80%)	Passing #200 (>30%)	Soil Class	Permeability (1.0 E-7 cm/sec)	Soil Description	
BA-1	102.1	19.7	51	18	33	100.0	96.1	68.0	СН	1.50E-08	Dark Gray Sandy Fat Clay	
BA-2	95.3	24.6	75	23	52	100.0	100.0	97.7	СН	1.20E-08	Brown Fat Clay	
BA-3	92.4	28.1	98	30	68	100.0	100.0	97.4	СН	9.60E-09	Brown Fat Clay	
BA-4	89.4	29.0	82	25	57	100.0	100.0	97.8	СН	9.30E-09	Brown Fat Clay	

AEP SOUTHWESTERN ELECTRIC POWER COMPANY

A unit of American Electric Power

TABLE 2

SOIL CONSTRUCTION TEST SUMMARY

SWEPCO - John W. Turk, Jr. Power Plant - Landfill Cell 2

Material ID	Max Dry Density (PCF)	Optimum Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index (>10)	Passing 1" (100%)	Passing #4 (>80%)	Passing #200 (>30%)	Soil Class	Permeability (1.0 E-7 cm/sec)	Soil Description
BA-5	89.1	28.8	82	27	55	100.0	100.0	95.1	СН	2.40E-08	Gray Fat Clay
BA-6	94.0	25.5	86	26	60	100.0	100.0	97.6	СН	2.60E-08	Brown Fat Clay
BA-7	96.2	25.3	81	27	54	100.0	100.0	98.1	СН	2.90E-08	Brown Fat Clay
BA-8 (1)	92.3	27.6	113	20	93	100.0	100.0	93.4	СН	-	Fat Clay
BA-9 (1)	90.9	27.2	115	22	93	100.0	100.0	92.6	СН	-	Fat Clay
BA-10 (1)	106.3	18.4	61	15	46	100.0	98.0	86.7	СН	-	Fat Clay
BA-11 (1)	93.2	26.9	96	21	75	100.0	100.0	95.4	СН	-	Red Fat Clay
BA-12	103.3	22.6	78	21	57	100.0	100.0	97.0	СН	1.10E-08	Brown Fat Clay
BA-13	93.2	26.9	73	23	50	100.0	99.0	92.0	СН	2.00E-08	Gray Fat Clay
BA-14	91.5	28.1	73	21	52	100.0	99.0	97.0	СН	1.60E-08	Brown Fat Clay
BA-15	89.0	30.7	73	22	51	100.0	100.0	97.0	СН	1.50E-08	Brown Fat Clay
BA-16	90.8	27.9	81	21	60	100.0	100.0	99.0	СН	1.90E-08	Brown Fat Clay
BA-17 (1)	94.7	25.2	96	19	77	100.0	100.0	97.0	СН	-	Fat Clay
BA-18	89.9	27.7	83	22	61	100.0	100.0	99.0	СН	2.70E-08	Brown Fat Clay
BA-19	95.7	24.7	72	22	50	100.0	100.0	98.0	CH	1.20E-08	Brown Fat Clay
BA-20	94.2	24.5	74	21	53	100.0	100.0	98.0	СН	1.70E-08	Brown Fat Clay

Notes:

1. Sample was not tested or used as compacted clay liner material.



A unit of American Electric Power

TABLE 3

SUMMARY OF PERMEABILITY TESTING DATA

SWEPCO - John W. Turk, Jr. Power Plant - Landfill Cell 2

		Test Results				
Test No.	Lift No./	к	Pass/			
	Layer	(cm/sec)	Fail			
ST-1	S. BERM	9.60E-09	Pass			
ST-2	S. BERM	1.00E-08	Pass			
P-1	LIFT 1	9.90E-09	Pass			
P-2	LIFT 2	1.00E-08	Pass			
P-3	LIFT 2	9.90E-09	Pass			
P-4	LIFT 3	9.60E-09	Pass			
P-5	LIFT 3	1.00E-08	Pass			
P-6	LIFT 4	1.10E-08	Pass			
P-7	LIFT 4	1.00E-08	Pass			
P-8	LIFT 1	1.10E-08	Pass			
P-9	LIFT 1	9.50E-09	Pass			
P-10	LIFT 2	1.10E-08	Pass			
P-11	LIFT 3	9.90E-09	Pass			
P-12	LIFT 3	1.10E-08	Pass			
P-13	LIFT 4	3.50E-08	Pass			
P-14	LIFT 4	1.00E-08	Pass			
P-15	LIFT 4	9.10E-09	Pass			
P-16	LIFT 1	1.00E-08	Pass			
P-17	LIFT 1	9.80E-09	Pass			
P-18	LIFT 1	9.60E-09	Pass			
P-19	LIFT 1	1.00E-08	Pass			
P-20	LIFT 1	9.90E-09	Pass			
P-21	LIFT 1	1.00E-08	Pass			
P-22	LIFT 2	1.00E-08	Pass			
P-23	LIFT 2	1.00E-08	Pass			
P-24	LIFT 2	2.20E-08	Pass			
P-25	LIFT 2	9.30E-09	Pass			
P-26	LIFT 2	1.10E-08	Pass			
P-27	LIFT 2	9.20E-09	Pass			
P-28	LIFT 3	9.40E-09	Pass			
P-29	LIFT 3	9.70E-09	Pass			
P-30	LIFT 3	1.00E-08	Pass			
P-31	LIFT 3	2.00E-08	Pass			
P-32	LIFT 3	1.00E-08	Pass			
P-33	LIFT 3	1.10E-08	Pass			
P-34	LIFT 3	9.70E-09	Pass			
P-35	LIFT 4	5.10E-08	Pass			
P-36	LIFT 4	1.10E-08	Pass			

		Test Results				
Test No.	Lift No./	к	Pass/			
	Layer	(cm/sec)	Fail			
P-37	LIFT 4	9.30E-09	Pass			
P-38	LIFT 4	1.20E-08	Pass			
P-39	LIFT 4	1.00E-08	Pass			
P-40	LIFT 4	1.10E-08	Pass			
P-41	LIFT 1	1.90E-08	Pass			
P-42	LIFT 2	3.00E-08	Pass			
P-43	LIFT 3	5.60E-08	Pass			
P-44	LIFT 4	1.80E-08	Pass			
P-45	LIFT 1	9.60E-09	Pass			
P-46	LIFT 2	9.80E-09	Pass			
P-47	LIFT 3	1.00E-08	Pass			
P-48	LIFT 4	1.90E-08	Pass			
P-49	LIFT 4	4.40E-08	Pass			
P-50	LIFT 1	3.90E-08	Pass			
P-51	LIFT 2	6.30E-08	Pass			
P-52	LIFT 3	4.20E-08	Pass			
P-53	LIFT 1	2.10E-08	Pass			
P-54	LIFT 2	9.60E-09	Pass			
P-55	LIFT 4	1.10E-08	Pass			
P-56	LIFT 4	1.00E-08	Pass			
P-57	LIFT 2	1.10E-08	Pass			
P-58	LIFT 1	3.60E-08	Pass			
P-59	LIFT 1	1.90E-08	Pass			
P-60	LIFT 2	9.70E-09	Pass			
P-61	LIFT 2	2.00E-08	Pass			
P-62	LIFT 3	4.20E-08	Pass			
P-63	LIFT 3	1.00E-08	Pass			
P-64	LIFT 4	8.10E-08	Pass			
P-65	LIFT 4	2.00E-08	Pass			
P-66	LIFT 3	3.70E-08	Pass			
P-67	LIFT 4	2.20E-08	Pass			
P-68	N. BERM	2.10E-08	Pass			
P-69	N. BERM	2.10E-08	Pass			
P-70	LIFT 1	2.00E-08	Pass			
P-71	LIFT 1	5.80E-08	Pass			
P-72	LIFT 2	4.40E-08	Pass			
P-73	LIFT 3	2.30E-08	Pass			
P-74	LIFT 3	1.20E-08	Pass			



A unit of American Electric Power

TABLE 4

LEACHATE COLLECTION SYSTEM GRAVEL TEST SUMMARY

SWEPCO - John W. Turk, Jr. Power Plant - Landfill Cell 2

Material ID	Calcium Carbonate (15% max)	Passing 1"	Passing 1/2"	Passing 3/8" (<5%)	Soil Class (GW or GP)	Permeability (>1.0 E-3 cm/sec)	Soil Description
G-1	0.3	100.0	0.9	0.1	GP	4.53E+01	Poorly Graded Gravel
G-2	-	96.0	11.0	2.0	GP	2.76E+01	Poorly Graded Gravel

























APPENDIX A RECORD DRAWINGS



A			5.29		112	06
				(TP 288.	-(TP 288.	(TP 287.
(B)			(TP_28) (TP_28)	8.32 7.95	P 287.56	
<u> </u>			(TP_288	3.47		
(D)			(TP 289	9.07	<u>IP 288.17</u>	
			(TP 289	9.65	<u>FP 288 71</u>	
(E)			(TP 290	.16	P 289.32	
(F)					P 289.96	T IN Y DRAIN
			4" PIP		TP 290.86	4" PIPE CHIMNE
(G)					<u>IP 291.70</u>	
(H)			(TP 292.			
<u></u>			(TP 293.	43		
			(TP 294.	30	293.92	
J			(TP 295.0			
(K)		 	(TP 205 8		294.76	
			(TP 296.6		295.55	
(L)					296.32	
(M)					297.04	
(N)			(TP 298.0		297.56	
			(TP 298.6		297.98	,
0			(TP 298.9		298.46	r
P			(TP 299.3			
			(TP 299.7		<u>298.73</u>	,
0			(TP 300.1		299.15 1	
R			(TP_300.4		<u></u>	— — —
(S)			(TP 300.8		299.86	
<u> </u>			(TP_301.2		300.34	
(T)			(TP 301.5		300.66	
<u> </u>					300.94	
\bigcirc			(TP 301.9		301.31	
W			(TP 302.3			
W	·		<u>(TP 302.)</u>			
(X)	·		(TP 303.3			
			(TP 303.6 (TP 303.7	33 TP 78 T	302.54	
Y					P 304.29	
(Z)						

2017 Projects/177011 AEP Turk Power Plant Landfill\2018 Certification Survey Report\Turk Cell 2 Final Certification Drawings - RHM EDIT 121318 fINAL.pro



LEGEND

TP TOP OF PIPE ----- 4" PIPE IN CHIMNEY DRAIN ----- 12" DRAIN PIPE TOP OF CLAY LINER



SURVEYOR CERTIFICATE:

I HEREBY CERTIFY THAT THIS DRAWING AND INFORMATION SHOWN HEREON WAS TAKEN FROM FIELD SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND ALL HORIZONTAL AND VERTICAL LOCATIONS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.







 CELL 2
 PIPING

 PIPING
 AS-BUILT SURVEY

 SOLID WASTE LANDFILL
 CELL 2

 JOHN W. TURK JR.
 JOHN W. TURK JR.

 POWER PLANT UNIT I
 542

 Date
 Revision/Description

 Drawn By
 Checked By
 Project No.

 D.E.R.
 R.H.M.
 117011
 12/13/2018





121318 fINAL.pro	-
- RHM EDIT	
Drawings -	2
Certification	
Final	
Cell 2	
t/Turk	
Repor	-
Survey	`
Certification	
fill\2018	
t Land	
r Plan	
Powe	
AEP Turk	
177011	
Projects/	0,00,0
017 F	·

	 	P#:10536 PC: 304.08 TC: 302.96 SG: 299.89		P#:10534 PC: NR TC: 302.30 SG: 299.39	P#:10521 PC: 303.64 TC: 302.34 <u>SG</u> : 299.41	P#:10519 PC: 303.50 TC: 302.48 SG: 299.70	P#:10518 PC: 303.12 TC: 301.96 SG: 298.98	P#:10517 PC: 302.60 TC: 301.60 SG: 298.89	P#:10516 PC: 301.89 TC: 300.88 SG: 297.93	P#:10515 PC: 301.20 TC: 300.16 SG: 297.53	P#:10514 PC: 300.94 TC: 299.84 TC: 299.84 TC: 299.84 SG: 297.29 SG: 295.96		P#:10371 PC: 300.82 TC: 298.73 SG: 295.97	
A	P#:10537 PC: NR TC: 302.95 SG: 200.11										P#:10513 PC: 300.55 TC: 299.46 SC: 298.57		F#:10372 PC: 300.43 TC: 299.40	
	P#:10538 PC: 289.41 TC: 287.31 SG: 283.52			P#:10340 PC: 303.74 TC: 302.60 SG: 299.96		P#:10434 PC: 291.43 TC: 288.78 SG: 285.44			P#:10437 PC: 287.46 TC: 285.13 SG: 282.82	P#:10554 PC: 289.50 TC: 287.09 SG: 284.46	C: 290.59 P€: 290.59 TC: 287.92 SG: 285.30		P#:10509 PC: 300.355 TC: 299.31 SG: 296.66	
D	P#:10355 PC: 289.21 TC: 286.95 SG: 283.75			P#:10345 PC: 298.46 TC: 297.23 SG: 294.54	P#:10523 PC: 303.97 TC: 302.76 SG: 300.17	P#:10548 PC: 290.86 TC: 287.77 SG: 285.08	P#:10550 PC: 289.36 TC: 287.15 SG: 284.23	P#:10551 PC: 288.65 TC: 286.33 SG: 283.59	P#:10553 PC: 289.04 TC: 286.34 SG: 283.67	P#:10398 PC: 289.40 TC: 286.94	P#:10556 PC: 289.88 IC: 287.69 SG: 225.13		P#:10377 PC: 301.29 TC: 299.91 SG: 296.56	
<u> </u>	P#:10539 PC: 289.69 TC: 287.47 SG: 284.86 P#:10354			P#:10346 PC: 299.08 TC: 297.92 SG: 295.23 P======== P#:10531	P#:10524 PC: 304.49 TC: 303.40 SG: 301.14 				P#:10409 PC: 288.20 TC: 286.18 SG: 283.49 P#:10406	SG: 284.50	P#:10392		PC: 301.34 TC: 300.09 SG: 297.31	
	PC: 289.28 TC: 287.17 SG: 284.64 P#:10540 PC: 290.94			PC: 304.59 TC: 303.41 SG: 300.79 P#:10347 PC: 299.66 TC: 298.48	PČ: 290.58 TC: 288.94 SG: 285.72 P#:10525 PC: 305.33 TC: 304.22	PC: 290.51 TC: 288.39 SG: 285.54	PC: 289,68 TC: 287.49 SG: 285.00	PC: 289.11 TC: 286.86 SG: 284.24	PC: 289.01 TC: 286.86 SG: 284.42 P#:10410 PC: 289.12	PC: 289.82 TC: 287.67 SG: 284.93	P ⁶ : 290.58 TC: 288.38 SG: 285.63 P#:10560 PC: 291.83 TC: 290.64		P#:10507 P#:10507	.000.0c
D	P#:10351 PC: 290.58 TC: 288.46			SG: 295.88 P#:10530 PC: 304.97 TC: 303.97 SG: 301 31	<u>SG: 301.59</u>	P#:10545 PC: 291.22 TC: 289.12	P#:10422 PC: 290.40 TC: 288.28	P#:10416 PC: 289.68 TC: 287.51	P#:10405 PC: 289.67 TC: 287.53	P#:10400 PC: 290.55 TC: 288.33	1C: 299.34 SG: 286.74 ↓ - ▶ - P#:10391 PC: 291.35 TC: 289.09		$\begin{array}{cccc} TC: & 300.68\\ SG: & 298.12\\$	
\sim	SG: 285.89 P#:10349 PC: 292.25 TC: 290.06 SG: 287.49			P#:10348 PC: 300.47 TC: 299.22 SG: 296.48	P#:10526 PC: 306.48 TC: 304.87 SG: 301.87	SG: 286.41 P#:10544 PC: 292.16 TC: 289.94 SG: 287.28	SG: 285.63	SG: 284.99	SG: 284.97 P#:10411 PC: 289.42 TC: 287.42 SG: 284.87	SG: 285.77	SG: 286.22 P#:10389 PC: 292.39 TC: 290.27 SG: 287.12		SG: 298.47 P#:10506 PC: 302.73 TC: 301.40 SG: 298.81	
(E)	P#:10350 PC: 291.86 TC: 289.70 SG: 287.00	 	¥ (P#:10529 PC: 305.69 TC: 304.48 SG: 301.77	*	P#:10427 PC: 292.10 TC: 289.77 SG: 287.20	P#:10423 PC: 291.03 TC: 288.94 SG: 286.15	P#:10415 PC: 290.34 TC: 288.17 SG: 285.71	P#:10404 PC: 290.45 TC: 288.24 SG: 285.71	P#:10401 PC: 291.16 TC: 289.05 SG: 286.28	¥ − − − − × − P#:10388 PC: 291,91 TC: 289,80 SG: 286.64	_'¥	P#:10382 PC: 303.23 TC: 302.09 SC: 298.96	
F	P#:10542 PC: 293.39 TC: 291.18 SG: 288.74			P#:10251 PC: 301.25 TC: 299.91 SG: 297.00	P#:10527 PC: 306.55 TC: 305.52 SG: 302.83	P#:10543 PC: 292.77 TC: 290.61 SG: 287.76			P#:10412 PC:290.27 TC: 288.20 SG: 285.38	(P#:10386 PC: 293.40 TC: 291.01 SC: 287.91 ★ ★		P#:10505 PC: 303.15 TC: 301.98 SG: 299.33 PPC: 299.33 PPE: 299.33	F
	P#:10250 PC: 293.10 TC: 290.86 SG: 288.32 P#:10248 PC: 294.88			P#:10528 PC: 306.42 TC: 305.31 SG: 302.68 P#:10252	P#:10265	P#:10425 PC: 292.70 TC: 290.45 SG: 287.72	P#:10424 PC: 291.86 TC: 289.76 SG: 286.93	P#:10414 PC: 291.21 TC: 288.97 SG: 286.10	P#:10403 PC: 291.13 TC: 288.97 SG: 286.25 P#:10295 PC: 291 19	P#:10402 PC: 291.76 TC: 289.66 SG: 286.92	P#:10387 PC: 292.76 TC: 290.58 SG: 287.63 P#:10323 PC: 294.28		PČ: 304.04 TC: 302.80 SG: 299.73	.000.0c
<u>G</u>	TC: 292.48 SG: 289.93 P#:10247 PC: 294.28			PC: 301.69 TC: 300.56 SG: 297.62 P#:10263 PC: 306.94	PC: 307.05 TC: 306.02 SG: 303.50	PC: 293.74 TC: 291.61 SC: 288.91 P#:10281 PC: 293.74 PC: 293.74	P#:10283 PC: 292 92		P#:10306 PC: 292.00	P#:10307 PC: 292.81	TC: 291.96 SG: 289.13 P#:10324 PC: 293.66		PC: 302.63 SG: 300.11 X	
	TC: 292.05 SG: 289.69 P#:10245 PC: 295.88 TC: 295.53 SC: 291.06			TC: 305.80 SG: 303.34 P#:10253 PC: 302.23 TC: 300.94 SG: 298.36	P#:10266 PC: 307.65 TC: 306.62 SG: 304.08	P#:10279 PC: 294.74 TC: 292.74 SG: 290.05	TC: 290.67 SG: 288.26	TC: 289.88 SG: 287.38	TC: 289.83 SG: 287.29 P#:10296 PC: 292.24 TC: 290.17 SG: 287.75	TC: 290.61 SG: 288.17	TC: 291.51 SG: 288.89 P#:10322 PC: 295.22 TC: 292.82 SC: 290.25		TC: 303.30 SG: 300.59 PC: 304.31 TC: 303.27 SG: 300.76	20.00
H	P#:10246 PC: 295.44 TC: 293.18 SG: 290.54		-¥	P#:10262 PC: 307.49 TC: 306.36 SG: 303.56		P#:10280 PC: 294.59 TC: 292.41 SG: 289.97	P#:10284 PC: 293.90 TC: 291.70 SG: 289.25	P#:10293 PC: 293.16 TC: 290.95 SG: 288.27	P#:10305 PC: 293.18 TC: 290.92 SG: 288.37	P#:10308 PC: 293.87 TC: 291.61 SG: 289.18	P#:10321 PC: 292.47 SG: 289.96		P#:10327 PC: 305.84 TC: 303.93 SG: 301.25	
<u></u>	P#:10244 PC: 297.16 TC: 294.65 SG: 292.09			P#:10254 PC: 302.84 TC: 301.56 SG: 299.02	P#:10267 PC: 308.34 TC: 307.26 SG: 304.66	P#:10278 PC: 295.83 TC: 293.82 SG: 291.18	 -+	 -★- <u></u> -	P#:10297 PC: 293.33 TC: 291.29 SG: 288.67	(– <u>– – –</u> – –	P#:10319 PC: 296.30 TC: 293.79 SG: 291.33		P#:10329 PC: 304.89 TC: 303.85 SG: 301.40	
0	P#:10243 PC: 296.33 TC: 294.11 SG: 291.72		(P#:10261 PC: 307.99 TC: 306.95 SG: 304.27 P#:10255 PC: 303.44	P#:10268	P#:10277 PC: 295.57 TC: 293.41 SG: 290.96 P#:10275 PC: 297.03	P#:10285 PC: 294.88 TC: 292.68 SG: 290.37	P#:10292 PC: 294.15 TC: 291.97 SG: 289.57	P#:10304 PC: 294.20 TC: 291.94 SG: 289.44 P#:10298 P#:10298	P#:10309 PC: 294.87 TC: 292.70 SG: 290.17	クーア#:10320 中で: 295.74 TC: 293.50 <u>SG: 290.90</u> <u>F#:10318</u>		P#:10330 PC: 306.42 TC: 304.45 SG: 301.98	20.00%
J	PC: 298.05 TC: 295.65 SG: 293.07 P#:10242 PC: 297.29			TC: 302.14 SG: 299.21 	TC: 307.93 SG: 305.32	TC: 294.75 SG: 292.17 	P#:10286 PC: 295.85	P#:10291 PC: 295.24	P#:10303 PC: 295.25	P#:10310 PC: 295.93	PC: 29/.25 TC: 294.83 SG: 292.27 P=		PC: 305.83 TC: 304.66 SG: 302.27 P#:10331 PF: 307 43	
	TC: 295.22 SG: 292.73	:		P#:10256 PC: 304.21 TC: 302.72 SG: 300.12	P#:10269 PC: 309.87 TC: 308.47 SG: 305.90	TC: 294.47 SG: 292.13 P#:10274 PC: 297.80 TC: 295.78 SG: 293.24	TC: 293.73 SG: 291.45	IC: 292.98 SG: 290.42	P#:10299 PC: 293.33 C: 290.74	IC: 293.72 SG: 291.13	C: 294.48 SG: 292.01 P#:10315 PC: 298.46 C: 298.46		P#:10333 PC: 305.62 SG: 302.51	20.00
K	SG: 294.24 P#:10239 PC: 298.42 TC: 296.22 SG: 293.64			P#:10259 PC: 309.25 TC: 308.22 SG: 305.56	f	P#:10273 PC: 298.03 TC: 295.47 SG: 293.13	P#:10287 PC: 296.75 TC: 294.74 SG: 292.13	P#:10290 PC: 296.27 TC: 294.02 SG: 291.31	₩	P#:10311 PC: 296.95 TC: 294.69 SG: 292.35	P#:10316 PC: 295.52 I CC: 295.52 SG: 293.05		P#:10334 PC: 308.09 TC: 306.25 SG: 303.39	
<u></u>	P#:10237 PC: 300.19 TC: 297.75 SG: 295.14	-*		P#:10257 PC: 304.59 TC: 303.45 SG: 300.65	P#:10270 PC: 310.15 TC: 309.13 SG: 306.39	P#:10271 PC: 299.00 TC: 296.78 SG: 293.95	 - *	 	P#:10300 PC: 296.41 TC: 294.25 SG: 291.70		P#:10314 PC: 299.42 TC: 296.92 SG: 294.32		P#:10336 PC: 307.19 TC: 306.13 SG: 303.54	
	P#:10238 PC: 299.49 TC: 297.41 SG: 294.80			P#:10258 PC: 309.89 TC: 308.85 SG: 306.22 P#:10225	P#:10150	P#:10272 PC: 298.58 TC: 296.43 SG: 293.81	P#:10288 PC: 298.00 TC: 295.71 SG: 293.25	P#:10289 PC: 297.24 TC: 294.98 SG: 292.45	P#:10301 PC: 297.25 TC: 294.99 SG: 292.51 P#:10106	P#:10312 PC: 297.95 TC: 295.71 SG: 293.16	P#:10313 PC: 298.68 TC: 296.50 SG: 293.93		P#:10335 PC: 308.62 TC: 306.82 SG: 304.09	.00.00
M	PC: 300.90 TC: 298.51 SG: 296.09 	· 		PC: 305.17 TC: 303.88 SG: 301.38 	PC: NR TC: 309.63 SG: 307.01	PČ: 299.87 TC: 297.76 SG: 295.19	 		PC: 297.21 TC: 295.03 SG: 292.48	P#:10065	PC: 300.25 TC: 297.92 SG: 295.39 ★ ★		P#:10031 PC: 307.73 TC: 306.69 SG: 304.11 X	
	PC: 300.39 TC: 298.28 SG: 295.54 P#:10223 PC: 301.65 TC: 299.33			PC: 310.32 TC: 309.30 SG: 306.90 P#:10224 PC: 305.70 TC: 304.55	P#:10153 PC: 311.61 TC: 310.27	PC: 299.49 TC: 297.35 SG: 294.88 P#:10147 PC: 300.77 TC: 298.58	TC: 296.75 SG: 294.16	C: 298.17 TC: 295.97 SG: 293.53	PC: 298.22 TC: 296.02 SG: 293.44 P#:10104 PC: 297.89 TC: 295.82	TC: 299.00 TC: 296.85 SG: 294.24	PC: 299.56 SG: 297.56 SG: 295.07 P#:10035 PC: 300.80 TC: 298.64		PC: 309.35 TC: 307.44 SG: 304.51	50.00
N	SG: 296.80 — — — — — — — — — — — — — — — — — — —	 		SG: 301.78 P#:10152 PC: 310.85 TC: 309.81		SG: 295.96 	P#:10109 PC: 299.49 TC: 297.36	P#:10105 PC: 298.90 TC: 296.73	SG: 293.21 	P#:10064 PC: 299.72 TC: 297.39	SC: 296.01		C: 304.65 SC: 304.65 P#:10178 PC: 309.99 TC: 308.05 SC: 305.17	
<u></u>	P#:10220 PC: 302.39 TC: 300.13 SG: 297.75			SG: 307.44 P#:10219 PC: 306.41 TC: 305.08 SG: 302.61	P#:10154 PC: 311.96 TC: 310.90 SC: 308.40	P#:10144 PC: 301.35 TC: 299.00 SG: 296.36	 		P#:10101 PC: 298.64 TC: 296.42 SG: 293.97	33. 294.07	SG: 243.66 P#:10036 PC: 301.37 TC: 299.09 SG: 296.53		P#:1002.10 PC: 309.20 TC: 308.14 SG: 305.61	20.0
0	P#:10221 PC: 301.50 TC: 299.41 SG: 296.92			P#:10155 PC: 311.55 TC: 310.49 SG: 307.91		P#:10145 PC:300.87 TC: 298.67 SG: 296.24	P#:10110 PC: 300.13 TC: 297.96 SG: 295.50	P#:10102 PC: 299.44 TC: 297.21 SG: 294.65	P#:10068 PC: 299.34 TC: 297.19 SG: 294.61	P#:10063 PC: 300.20 TC: 297.91 SG: 295.40	P#:10037 PC: 300.95 TC: 298.72 SG: 296.09		P#:10179 PC: 310.83 TC: 308.84 SC: 305.86	00.00
P	PC: 303.15 TC: 300.74 SG: 298.11			P#:10218 PC: 307.23 TC: 305.71 SG: 303.13 	P#:10157 PC: 312.54 TC: 311.48 SG: 308.78	P#:10143 PC: 301.62 TC: 299.47 SG: 296.97 	- x	- X	P#:10069	e — — — — — — — — — — — — — — — — — — —	P#:10039 PC: 299.51 SC: 299.59 X X		P#:10028 PC: 309.66 TC: 308.61 SG: 306.16 P#:10180 P#:10180	
	PC: 302.11 TC: 300.03 SG: 297.47 P#:10214 PC: 303.47 TC: 301.03			PC: 312.31 TC: 311.11 SG: 308.65 P#:10213 PC: 307.64 TC: 306.39	P#:10158 PC: 313.15 TC: 312.09	P ^C : 301.29 TC: 299.21 SG: 296.73 P#:10140 PC: 302.00 TC: 299.97	PĈ: 300.62 TC: 298.44 SG: 295.88	PĈ: 299.80 TC: 297.64 SG: 295.19	PČ: 299.83 TC: 297.62 SG: 295.12 P#:10097 PC: 299.56 TC: 297.40	PC: 300.59 TC: 298.39 SG: 295.78	PC: 301.49 TC: 299.26 SG: 296.64 P#:10040 PC: 302.72 TC: 300.08		P#:10027 PC: 310.60 PC: 310.60	50.00
Q	SG: 298.54 P#:10215 PC: 302.59 TC: 300.54			SG: 303.80 P#:10159 PC: 312.88 TC: 311.71 SG: 309.19		SG: 297.34 	P#:10112 PC: 301.11 TC: 298.95	P#:10098 PC: 300.32 TC: 298.07	SG: 294.89 - - - P#:10070 - - PC: 300.34 - TC: 298.11 -	P#:10061 PC: 301.09 TC: 298.92	Sc: 297.47 Image: science of the science		P#:10181 PC: 306.93 P#:10181 PC: 312.33 TC: 310.20 SC: 307.44	
R	P#:10211 PC: 303.96 TC: 301.55 SG: 299.17			P#:10212 PC: 308.36 TC: 306.94 SG: 304.32	P#:10161 PC: 313.70 TC: 312.67 SG: 309.75	SG: 297.09 P#:10139 PC:_302.91 TC: 300.56 SG: 297.84 	<u> 56: 296.59</u> 	<u>[56: 295.57]</u> 	P#:10096 PC: 300.02 TC: 297.90 SG: 295.37	<u> </u>	Image: SG: 297.10 Image: SG: S02.91 Image: SG: 298.00 Image: SG: 298.00 Image: SG: 298.00 Image: SG: S02.91		P#:10026 =C:_311_1.6	
	P#:10210 PC: 303.16 TC: 301.05 SG: 298.63			P#:10160 PC: 313.62 TC: 312.35 SG: 309.90	[P#·10162]	P#:10138 PC: 302.20 TC: 300.08 SG: 297.59	P#:10113 PC: 301.55 TC: 299.39 SG: 296.86	P#:10095 PC: 300.81 TC: 298.63 SG: 296.08	P#:10071 PC: 300.76 TC: 298.52 SG: 296.09 P#:10092	P#:10060 PC: 301.53 TC: 299.37 SG: 296.80	P#:10042 PC: 302.37 TC: 300.24 SG: 297.62		P#:10182 PC: 312.98 TC: 311.00 SG: 308.56	.00.00
S	PC: 304.38 TC: 301.94 SG: 299.51			PC: 309.01 TC: 307.65 SG: 305.00 	PĆ: 314.41 TC: 313.30 SG: 310.61	PC: 303.18 TC: 300.89 SG: 298.26 TC: 300.89 FC: 300.89 SG: 298.26 TC: 300.89 SG: 298.26		- ↑	PC: 300.47 TC: 298.33 SC: 295.80 P#:10072	P#:10059	PC: 303.19 TC: 301.03 SG: 298.45 F#:10045		PC: NR TC: 310.81 SC: 308.33 X	
	PC: 303.60 TC: 301.56 SG: 299.04 P#:10205 PC: 304.81 TC: 302.43			PC: 314.05 TC: 312.98 SG: 310.49 P#:10206 PC: 309.64 TC: 308.32	P#:10165 PC: 314.93 IC: 313.93	PC: 302.73 TC: 300.55 SG: 298.12 P#:10135 PC: 303.76 TC: 301.44	PC: 301.99 TC: 299.86 SG: 297.34	PC: 301.33 TC: 299.07 SG: 296.57	PC: 301.27 TC: 299.06 SG: 296.59 P#:10091 PC: 300.88 TC: 298.79	PC: 301.97 TC: 299.90 SG: 297.34	PC: 302.89 TC: 300.71 SG: 298.07 P#:10047 PC: 303.94 TC: 301.52		P#:10024 PC: 311.54 SG: 309.04	50.00
Ţ	<u>SG: 300.00</u> <u>P#:10204</u> PC: 304.15 TC: 302.02 SO: 51			SG: 305.58 	SG: 311.44	P#:10134 PC: 303.19 TC: 301.04	P#:10115 PC: 302.53 TC: 300.36	P#:10090 PC: 301.63 TC: 299.50	SG: 296.32 	P#:10058 PC: 302.49 TC: 300.35	<u>SG: 298,88</u>		P#:10184 PC: 314.13 TC: 312.12 SG: 309.06	
<u></u>	P#:10202 PC: 305.32 TC: 302.90 SG: 300.63			P#:10201 PC: 310.08 TC: 308.85 SG: 306.42	P#:10166 PC: 315.59 TC: 314.48 SG: 311.60	SG: 298.56 P#:10132 PC: 304.33 TC: 301.94 SG: 299.33		<u> </u>	SG: 297.08 P#:10088 PC: 301.29 TC: 299.23 SG: 296.92	[56: 297.70]	SG: 298.37 P#:10048 PC: 304.34 TC: 302.13 SG: 299.30		P#:10023 PC: NR TC: 312.32 SG: 309.67	20.0
0	P#:10203 PC: 304.60 TC: 302.50 SG: 299.99			P#:10167 PC: 315.27 TC: 314.19 SG: 311.65	[D#:10160]	P#:10133 PC: 303.76 TC: 301.53 SG: 299.00	P#:10116 PC: 302.98 TC: 300.82 SG: 298.25	P#:10089 PC: 302.21 TC: 300.05 SG: 297.57	P#:10074 PC: 302.25 TC: 300.08 SG: 297.53 P#:10087	P#:10057 PC: 303.05 TC: 300.81 SG: 298.25	P#:10049 PC: 303.90 I TC: 301.70 SG: 299.01		P#:10185 PC: 314.25 TC: 312.78 SG: 310.33	^000.00
V	P#:10199 PC: 305.76 TC: 303.43 SG: 300.94 P#:10198	· 		PC: 311.14 TC: 309.44 SG: 306.71 P#:10168 PC: 315.86	PC: 316.20 TC: 315.12 SG: 312.28	PC: 304.77 TC: 302.40 SG: 299.78 			PC: 301.85 TC: 299.75 SG: 297.30 	P#:10056	PC: 304.95 TC: 302.51 SG: 299.94 Y		PC: 314.05 TC: 312.93 SC: 310.23	
	PC: 305.12 TC: 303.01 SG: 300.47 P#:10196 PC: 306.12			TC: 314.82 SG: 312.26 P#:10195 PC: 311.26 TC: 310.04	P#:10170 PC: 316.93	P ^C : 304.20 TC: 302.03 SG: 299.49 P [#] :10128 PC: 305.33 TC: 302.99	PČ: 303.52 TC: 301.33 SG: 298.75	PC: 302.65 TC: 300.54 SG: 298.08	PC: 302.65 TC: 300.51 SG: 298.00 P#:10085 PC: 302.44 TC: 300.28	PC: 303.44 TC: 301.28 SG: 298.68 P#:10055 PC: 303.89 TC: 301.82	PC: 304.37 TC: 302.08 SG: 299.55 PC: 304.80 PC: 304.80 PC: 302.62 PC: 302.62	P#:10236 PC: 314.7 .04 TC: 312.9	PC: 314.77 TC: 313.48 SG: 311.08 11 91 91 92 92: 314.82	50.00'
W	SG: 301.39 P#:10197 PC: 305.65 TC: 303.50			<u>SG: 307.32</u> P#:10171 PC: 316.52 TC: 315.38	/ <u> sc: 312.83</u> -	SG: 300.43 P#:10129 PC: 304.75 TC: 302.60	P#:10118 PC: 303.96 TC: 301.80	P#:10083 PC: 303.28 TC: 301.07	ISG: 297.76 P#:10076 PC: 303.35 TC: 301.02	[SG: 299.32] 	ISC: 302.00 IC: 302 SG: 300.10 IC: 302 F#:10234 PC: 314.83 PC: 314.83 IC: 313.39	100 100 100 100 100 100 100 100 100 100	TC: 313.54 SG: 311.19	P#:10188 PC: 314.92
	P#:10193 PC: 306.77 TC: 304.40 SG: 302.00			P#:10194 PC: 311.99 TC: 310.66 SG: 307.90	P#:10173 PC: 317.56 TC: 316.37 SG: 313.58	P#:10127 PC: 306.00 TC: 303.89 SG: 300.97	 	<u>[30.298.45]</u>	P#:10078 PC: 300.26 TC: 300.85 SG: 297.55	TC: 303.75 SG: 299.88	Sc: 310.77		P#:10233 PC: 315.54 TC: 314.05 SG: 310.40	
<i>·</i> ∕∕	P#:10192 PC: 306.36 TC: 303.88 SG: 301.51			P#:10172 PC: 317.01 TC: 315.95 SG: 313.42	<u>[P</u> #:10174]	P#:10126 PC: 305.43 TC: 303.20 SG: 300.69 P#:10124	P#:10119 PC: 304.45 TC: 302.29 SG: 299.77	P#:10082 PC: 303.72 TC: 301.52 SG: 299.00	P#:10077 PC: 303.92 TC: 301.67	P#:10054 PC: 305.12 TC: 302.43 SG: 299.63	<u>р#100</u> Р: 304./9 Р: 31 Гс: 31 Гс: 31 Гс: 31	I 5,69 4.28 1.55	2₩:10504 PC: 315.52 C: 314.36 G: 311.25	00.00
Y	P#:10190 PC: 307.67 TC: 304.99 SG: 302.43 P#:10191			P#:10189 PC: 312.76 TC: 311.35 SG: 308.77	PĈ: 318.44 TC: 316.98 SG: 314.48	PC: 306.62 TC: 304.53 SG: 301.59	<u><u> </u></u>	P#:10229 PC: 304.3 TC: 302.2 SG: 297.6 P#:10230 Pf: 304.51		P#:10231 PC: 317 10	Image: P#:10018 Image: PC:315.92 Image: PC:315.92 Image: PC:315.92 Image: Image: PC:315.92 Image:			
	PC: 308.02 TC: 305.74 SG: 303.06 P#:10001 PC: 319.30 TC: 318.26	,		PC: 317.68 TC: 316.65 SG: 313.82		P#:10125 PC: 306.08 TC: 303.97 SG: 301.33 PC: 306.92 TC: 304.89	PC: 304.9 TC: 302.9 SG: 300.2 PE: 305.42 TC: 305.42 TC: 305.42 TC: 302.74	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P#:10079 PC: 312.64 TC: 311.08	TC: 316.10 SG: 313.36				50.00
Z	P#:10445			[P#:10000]	P#-10000	Isc: 301.97 Isc: 30		P#:10 PC: 3 TC: 3 SG: 3	SG: 308.18					
	TC: 319.20 TC: 318.16 SG: 315.96	P#:10002 PC: 319.06 TC: 318.02 SG: 315.73		P#:10006 PC: NR TC: 317.61 SG: 315.28	P#:10009 PC: 318.36 TC: 317.30 SG: 314.98	TC: 317.29 SG: 315.12		<u>د :مح</u> ا ا						











APPENDIX B DAILY PROJECT FIELD RECORDS

Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: <u>1/29/2018</u>	Bryant, AR 72022 (501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	ü Clear ü Cold
Project Name: Turk Cell 2 and Cell 1 Partial Cover	
Location: Fulton AR	Partly Cloudy Warm
Representative: Greg Whitte	
Technician: Matt Acree	\square Windy 34° Flow Temp (°F)
	$ = \frac{347}{52^{\circ}\text{E}} \text{ High Tomp. (°F)} $
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 5:45 AM Depart Site: 2:30 PM	Moisture/Density Ü Subgrade
Arrive Site: 7:45 AM Arrive Lab: 3:00 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	Client Liner Crew
2 Excavator(s) Skidsteer	Ü Contractor
Backhoe(s) Water Truck	<u> </u>
5 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Crader(s) Smooth Drum Compactor	<u> </u>
SUMMARY OF ACTIVITIES OBSERVED: The contractor ordered a pad created for elevation surveying. Contractor ordered dozers move material around cell floor in at Contractor called for a proof-roll, determined that material was	ttempt to dry out.
OPERATIONAL CONCERNS & SOLUTIONS:	

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.

Daily Project Construction Summary	25809 Interstate 30 South							
Project No: <u>35177127</u> Date of Report: 1/30/2018	Bryant, AR 72022 (501) 847-9292							
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2 and Cell 1 Partial CoverLocation:Fulton, ARRepresentative:Greg WhitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: X Clear X Cold Cloudy Cool Partly Cloudy Warm Raining Hot Windy 29°F Low Temp. (°F) Foggy / Misty 52°F High Temp. (°F)							
REPORTING TIMES:	FIELD TESTING PERFORMED:							
Depart Lab:6:30 AMDepart Site:5:15 PMArrive Site:6:45 AMArrive Lab:5:30 PM	Moisture/Density X Subgrade Shelby Tube(s) Clay Liner							
EQUIPMENT ONSITE:	PERSONNEL ONSITE:							
2Dozer(s)Tractor & Pans2Excavator(s)SkidsteerBackhoe(s)Water Truck5Haul Truck(s)1Motor Grader(s)Smooth Drum Compactor	ClientLiner Crew11ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.							
SUMMARY OF ACTIVITIES OBSERVED								
Contractor haul trucks hauled material to stockpile. Contractor dozers moved material around cell floor to bring up performed.	to grade, moisture/density tests were_							
SFC Surveyor took elevation data measurements.								
Contractor sheeps foot compactor prepared west berm area for cut, haul truck performed passing proof-roll.								

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 1/31/2018	Bryant, AR 72022 (501) 847-9292
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2 and Cell 1 Partial CoverLocation:Fulton, ARRepresentative:Greg WhitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: X Clear Cold Cloudy X Cool Partly Cloudy Warm Raining Hot X Windy 33°F Low Temp. (°F) Foggy / Misty 72°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:6:30 AMDepart Site:5:30 PMArrive Site:6:45 AMArrive Lab:5:45 PM	Moisture/Density X Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE: 2 Dozer(s) 3 Excavator(s) Backhoe(s) Skidsteer 4 Water Truck 5 Haul Truck(s) 1 Sheeps Foot Compactor Motor Grader(s) 1	PERSONNEL ONSITE: Client Liner Crew 11 Contractor Liner Installer 1 CQA Consultant Concrete Crew Design Engineer Pipe Installer 1 Surveyor Gas Line Inst.
SUMMARY OF ACTIVITIES OBSERVED: Contractor graded material with dozer to continue with the first	t lift on cell floor to bring up to grade.
Contractor compacted lift for continued density testing.	
Contractor hauled material to stockpile.	
Contractor compacted north end of west berm with smooth dru	<u>um</u>
OPERATIONAL CONCERNS & SOLUTIONS:	

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.


	lerracon	
Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022	
Project No: <u>351//12/</u> Date of Report: 2/1/2018	(501) 847-9292	
Client Name: American Electric Power	WEATHER:	
Contractor: SFC	Clear Cold	
Project Name: Turk Cell 2 and Cell 1 Partial Cover	X Cloudy X Cool	
Location: Fulton, AR	Partly Cloudy Warm	
Technician: Matt Acree	\mathbf{X} Windy $\mathbf{48^{\circ}F}$ low Temp (°F)	
Test Location: Cell 2	$\Box Foggy / Misty 64°F High Temp. (°F)$	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:30 AM Depart Site: 5:30 PM	Moisture/Density X Subgrade	
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	Client Liner Crew	
3 Excavator(s) Skidsteer	<u>13</u> Contractor Liner Installer	
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew	
<u>5</u> Haul Truck(s) <u>1</u> Sneeps Foot Compactor	Design Engineer Pipe Installer Gas Line Inst	
SUMMARY OF ACTIVITIES OBSERVED:		
Contractor excavated and hauled overburden to stockpile.		
Contractor hauled material as structural fill to bring cell floor up to grade.		
Contractor shoops foot compactor ran over all material that was placed to raise compaction		
contractor sneeps foot compactor fan over all material that wa	as placed to raise compaction.	
Contractor removed abandoned pipe running across north end	t of cell floor (E-W orientation).	
OPERATIONAL CONCERNS & SOLUTIONS:		



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022	
Project No: <u>35177127</u>	(501) 847-9292	
Client Name: American Electric Power	WEATHER:	
Contractor: SFC	Clear X Cold	
Project Name: Turk Cell 2 and Cell 1 Partial Cover	Cloudy Cool	
Location: Fulton, AR	🔀 Partly Cloudy 🗌 Warm	
Representative: Greg Whitte	Raining Hot	
Technician: Matt Acree	X Windy $34^{\circ}F$ Low Temp. (°F)	
	<u>45 F</u> High Temp. (F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:15 AM Depart Site: 5:30 PM	Moisture/Density X Subgrade	
Arrive Site: 6:30 AIM Arrive Lab: 5:45 PIM	Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
<u>3</u> Dozer(s) Tractor & Pans	<u>1</u> Client Liner Crew	
<u>2</u> Excavator(s) <u>I</u> Skidsteer Backboo(s) Water Truck		
5 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.	
SUMMARY OF ACTIVITIES OBSERVED:		
Contractor removed overburden with excavators to be used as	<u>s fill.</u>	
Contractor dozers spread fill		
Contractor haulers carried placed material for fill on floor as we	ell as west and south berm.	
L Contractor sheeps foot compacted material		
Contractor sheeps foot compacted material.		
Contractor sheeps foot compacted material.		
Contractor sheeps foot compacted material.		
Contractor sheeps foot compacted material. Performed density testing.		
Contractor sheeps foot compacted material. Performed density testing.		
Contractor sheeps foot compacted material. Performed density testing.		
Contractor sheeps foot compacted material. Performed density testing. OPERATIONAL CONCERNS & SOLUTIONS:		
Contractor sheeps foot compacted material. Performed density testing. OPERATIONAL CONCERNS & SOLUTIONS:		
Contractor sheeps foot compacted material. Performed density testing. OPERATIONAL CONCERNS & SOLUTIONS:		
Contractor sheeps foot compacted material. Performed density testing. OPERATIONAL CONCERNS & SOLUTIONS:		



	llerracon	
Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022	
Project No: <u>35177127</u> Date of Report: 2/3/2018	(501) 847-9292	
Client Name: American Electric Power	WEATHER:	
Contractor: SFC	Clear X Cold	
Project Name: Turk Cell 2 and Cell 1 Partial Cover		
Location: Fulton, AR Poprosontativo: Greg Whitte	Partiy Cloudy Warm	
Technician: Matt Acree	Windy 30°F Low Temp. (°F)	
Test Location: Cell 2	Foggy / Misty 48°F High Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:30 AM Depart Site: 4:00 PM	Moisture/Density X Subgrade	
Arrive Site: 6:45 AM Arrive Lab: 4:15 PM	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
2 Dozer(s) Tractor & Pans	Liner Crew	
2 Excavator(s) Skidsteer	13 Contractor Liner Installer	
5 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grader(s) 1 Smooth Drum Compactor	Gas Line Inst.	
SUMMARY OF ACTIVITIES OBSERVED:		
<u>contractor excavators removed overburden to be used as fill</u>		
Contractor hauled material to be used as fill for berms and subgrade		
Contractor ran sheeps-foot over material placed for compaction	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction Performed density testing. OPERATIONAL CONCERNS & SOLUTIONS:	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction Performed density testing. OPERATIONAL CONCERNS & SOLUTIONS:	<u>on.</u>	
Contractor ran sheeps-foot over material placed for compaction Performed density testing. OPERATIONAL CONCERNS & SOLUTIONS:	<u>on.</u>	



Daily Project Construction Summary	25809 Interstate 30 South
Project No: 35177127 Date of Report: 2/4/2018	Bryant, AR 72022 (501) 847-9292
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2 and Cell 1 Partial CoverLocation:Fulton, ARRepresentative:Greg WhitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: Clear Cold Cloudy X Partly Cloudy Warm Raining Hot Windy 41°F Low Temp. (°F) Foggy / Misty °F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:6:15 AMDepart Site:7:15 AMArrive Site:6:30 AMArrive Lab:7:30 AM	Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
Dozer(s)Tractor & PansExcavator(s)SkidsteerBackhoe(s)Water TruckHaul Truck(s)Sheeps Foot CompactorMotor Grader(s)Smooth Drum Compactor	ClientLiner Crew13ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.
No activites performed.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Rain from yesterday left the material too wet to work on with	out causing damage.

Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 2/5/2018	Bryant, AR 72022 (501) 847-9292
Client Name: American Electric Power	WEATHER:
Project Name: Turk Cell 2 and Cell T Partial Cover	
Location: Fulton, AR	Partly Cloudy Warm
Representative: Greg Witte	Raining Hot
Technician: Matt Acree	x Windy 28°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 56°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 4:45 AM Depart Site: 5:30 PM	X Moisture/Density X Subgrade
Arrive Site 6:45 AM Arrive Lab 5:45 PM	Shelby Tube(s)
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	1 Client Liner Crew
2 Excavator(s) Skidsteer	13 Contractor
Packbook	1 COA Consultant
5 Haul Truck(s) 1 Sneeps Foot Compactor	Design Engineer Pipe Installer
<u>1</u> Motor Grader(s) <u>1</u> Smooth Drum Compactor	<u>Gas Line Inst.</u>
Contractor removed overburden with excavators.	
Contractor dozers spread material.	
Contractor compacted material placed with sheeps foot comp	<u>actor.</u>
OPERATIONAL CONCERNS & SOLUTIONS:	



Daily Project Construction Summary	25809 Interstate 30 South		
Project No: <u>35177127</u> Date of Report: 2/6/2018	(501) 847-9292		
Client Name: American Electric Power	WEATHER:		
Contractor: SEC	Clear X Cold		
Droject Name: Turk Coll 2 and Coll 1 Dartial Cover			
Location: Fulton, AR	Partly Cloudy Warm		
Representative: Greg Witte	x Raining Hot		
Technician: Matt Acree	x Windy 37°F Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty 51°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:15 AM Depart Site: 3:15 PM	X Moisture/Density X Subgrade		
Arrive Site: 6:30 AM Arrive Lab: 3:30 PM	Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
1 Dozer(s) Tractor & Pans	2 Client Liner Crew		
2 Excavator(s) Skidsteer	13 Contractor Liner Installer		
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew		
5 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer		
Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst		
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor dozer moved material onto western berm to bring of	cell floor to grade.		
Contractor excavators removed overburden of both western ramps.			
Contractor smooth roller compacted west berm and exposed subgrade thrice to seal off before expected			
<u>rain.</u>			
Contractors hauled overburden to southern stockpile.			
Contractor sheeps foot passed over entire western berm once	again over dozer placed material		
OPERATIONAL CONCERNS & SOLUTIONS:			
Began raining at 3:00 PM, operations ceased at 3:00 PM.			
L			



Daily Project Construction Summary	25809 Interstate 30 South	
Project No: <u>35177127</u>	Bryant, AR 72022 (501) 847-9292	
Date of Report: 3/7/2018 Client Name: American Electric Power	WEATHER	
Contractor: SFC	x Clear x Cold	
Project Name: Turk Cell 2 and Cell 1 Partial Cover	Cloudy Cool	
Location: Fulton, AR	Partly Cloudy Warm	
Representative: Greg Witte	Raining Hot	
Technician: Matt Acree	X Windy 33° Low Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab:9:00 AMDepart Site:5:15 P.M.Arrive Site:11:00 AMArrive Lab:5:45 P.M.	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
2 Dozer(s) Tractor & Pans	Liner Crew	
<u> </u>	8 Contractor Liner Installer	
2 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
Motor Grader(s) <u>1</u> Smooth Drum Compactor	Gas Line Inst.	
QA/QC Expectations:	laureite et ante	
supervise movement of material around the cell and perform d	<u>lensity tests.</u>	
SUMMARY OF ACTIVITIES OBSERVED:		
Contractor dozer in cell moved material and flattened area to g	rade.	
Contractor sheeps foot went over west berm to belp dry it out		
<u>contractor sheeps foot went over west bern to help dry it out.</u>		
Performed verification density tests to ensure material is within	n parameters to place more material above it.	
LIETS WORKED AND COMPACTION FEFORTS		
LIFTS: No new material brought in.		
COMPACTION: Sheeps foot moved over west berm three times	s along entirety to reduce moisture and bring	
OPERATIONAL CONCERNS & SOLUTIONS: Northern end of berm was mostly dry, the south end of the ber	m had compaction that was close, but not	
passing with a higher than normal moisture. Contractor plans to	o disc over-saturated material on 3.8.18 to dry	
<u>it.</u>		
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end	



Daily Project Construction Summary	25809 Interstate 30 South	
Project No:35177127Date of Report:3/8/2018Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2 and Cell 1 Partial CoverLocation:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER:	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab:6:30 A.M.Depart Site:5:30 P.M.Arrive Site:6:45 A.M.Arrive Lab:5:45 P.M.	X Moisture/Density Subgrade Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:2Dozer(s)Tractor & Pans2Excavator(s)SkidsteerBackhoe(s)Water Truck4Haul Truck(s)11Motor Grader(s)15Smooth Drum Compactor	PERSONNEL ONSITE:2Client10Contractor1CQA ConsultantDesign EngineerPipe Installer1SurveyorGas Line Inst.	
Perform verification density tests and supervise continued stru SUMMARY OF ACTIVITIES OBSERVED: Contractor sheeps foot compacted south and west berm. Contractor excavator cleaned stockpile and worked on road.	ictural fill.	
Contractor excavator removed structural fill material and moved to west berm.		
Smooth roller has sealed off the north half of west berm until the southern half is brought up to match the elevation of north half.		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: 4th lift added to south berm and southern west berm.		
COMPACTION EFFORT: For best compaction, contractor sheep passes, a few passes more in some places.	s foot covered west berm at a minimum of 4	
OPERATIONAL CONCERNS & SOLUTIONS:		
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end	



Daily Project Construction Summary

Project No: <u>35177127</u>	(501) 847-9292	
Client Name: American Electric Power	WEATHER	
Contractor: SEC.		
Project Name Turk Cell 2 and Cell 1 Partial Cover		
Location: Fulton, AR	x Partly Cloudy Warm	
Representative: Greg Witte	Raining Hot	
Technician: Matt Acree	Windy 35°F Low Temp. (°F)	
Test Location: Cell 2	Foggy / Misty 76°F High Temp. (°F)	
Dopart Lab: 6:15 A M Dopart Sito: 5:00 P M	X Moisturo/Dopsity Subgrade	
Arrive Site: 6:30 A M Arrive Lab: 5:15 P M	\square Shelby Tube(s) \square Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
<u>3</u> Dozer(s) Iractor & Pans	2 Client Liner Crew	
Z Excavator(s) Skidsteer		
A Haul Truck(s) 1 Sheens Foot Compactor	Design Engineer Pine Installer	
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst	
QA/QC Expectations:		
Observe earth work on southern half of west berm and perform	density tests as allowable.	
SUMMARY OF ACTIVITIES OBSERVED:		
Contractor excavators removed structural fill material to be placed in west berm and to be moved to		
stockpile.		
Contractor haulers moved material from excavation sites to west berm and stockpile.		
Contractor smooth roller created testing pads.		
Contractor dozers smoothed west herm and cell floor to grade		
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: Completed lift 4 on southern half of west berm, had to cre	eate a smaller lift in middle of west berm, 5,	
to bring entirety to grade. Lift 6 was also created to bring the so	uthern half to a homogenous grade	
throughout.		
Compaction Effort: Sheeps foot passed over placed material a m	ninimum of 4 times to achieve ideal	
compaction, with a few more passes when allowable.		
COMPACTIONAL CONCERNS & SOLUTIONS		
compaction, with a few more passes when allowable.		
compaction, with a few more passes when allowable.		
compaction, with a few more passes when allowable.		



Daily Project	Construction	Summary
---------------	--------------	---------

Project No: <u>35177127</u>	(501) 847-9292	
Date of Report: 3/10/2018		
Contractor: SFC		
Project Name: Turk Cell 2 and Cell 1 Partial Cover		
Location: Fulton, AR	X Partly Cloudy X Warm	
Representative: Greg Witte		
Technician: Matt Acree	$\bigcup Windy \qquad 51^{\circ}F Low lemp. (°F)$	
Test Location: Cell 2	Foggy / Misty 78°F High Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:15 A.M. Depart Site: 4:45 P.M.	X Moisture/Density Subgrade	
Arrive Site: 6:30 A.M. Arrive Lab: 6:15 P.M.	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	2 Client Liner Crew	
3 Excavator(s) Skidsteer	10 Contractor Liner Installer	
Backhoe(s) Water Truck	1 COA Consultant Concrete Crew	
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.	
QA/QC Expectations:		
Observe earth work on southern half of west berm and south be	erm and perform density tests as allowable.	
Contractor overwaters removed structural fill material to be place	cod on south and west horm. Sonarate	
<u>Contractor excavators removed structural fill material to be placed on south and west berm. Separate</u>		
contractor excavator removed material to be moved to stockpile.		
Contractor haulers moved material from excavation sites to wes	st berm and stockpile.	
Contractor smooth roller created testing pads and sealed before	e rain.	
Contractor dezers graded cell floor		
<u>Contractor dozers graded cen noor.</u>		
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: Continued with lift 6 into southwest corner and south ber	rm.	
Compaction Effort: Minimum of 4 passes with sheeps foot, mor	e when allowable.	
OPERATIONAL CONCERNS & SOLUTIONS:		
Chance of rain tonight that could cause work to be halted tomor	rrow.	
Note: Copies of all completed "Project Field Record Forms" are to be sul	bmitted to the Project Manager at the end	



Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 3/12/2018	
	WEATHER.
Contractor: SFC	
Location: Fulton AP	Cloudy Cloudy Warm
Representative: Grea Whitte	
Technician: Matt Acree	\square Windy 42° Flow Temp (°F)
Test Location: Cell 2	12 For the function of the
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 10:45 AM Depart Site: 7:15 P.M.	X Moisture/Density Subgrade
Arrive Site: <u>12:45 P.M.</u> Arrive Lab: <u>7:30 P.M.</u>	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
2 Excavator(s) Skidsteer	12 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	Surveyor Gas Line Inst.
QA/QC Expectations:	
Observe contractors remove structural fill material, place it as s	tructural fill on west berm, and perform
density tests to verify passing compaction.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavators (2) removed structural fill material from (cell 2 floor to bring to grade
Contractor haulers moved structural fill material to west and so	uth berm.
Contractor dozers spread material along west berm.	
Contractor sheeps foot kneaded material into compaction.	
<u>Contractor smooth drum created testing pads for density tests.</u>	
LIFTS: Added a seventh lift to south and of west harm and into s	south horm
LIFTS. Added a seventining to south end of west bern and into s	
COMPACTION FEFORTS: Contractor sheeps foot passed across r	material a minimum of 4 times to bring up to
compaction more times if allowable	naterial a minimum of 1 times to bring up to
OPERATIONAL CONCERNS & SOLUTIONS:	
Work started in cell floor after noon due to previous rains.	
Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end



Daily Pro	ject Constructi	ion Summary
------------------	-----------------	-------------

ferracon
25809 Interstate 30 South
Brvant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292	
Date of Report: 3/13/2018		
	VEATHER.	
Project Name Turk Cell 2 COA		
Location: Fulton AR	Partly Cloudy Warm	
Representative: Greg Witte		
Technician: Matt Acree	Windy 38°F Low Temp. (°F)	
Test Location: Cell 2	Foggy / Misty 65°F High Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:15 A.M. Depart Site: 7:00 P.M.	X Moisture/Density Subgrade	
Arrive Site: 6:30 A.M. Arrive Lab: 7:15 P.M.	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	2 Client Liner Crew	
2 Excavator(s) Skidsteer	12 Contractor Liner Installer	
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew	
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grader(s) 1 Smooth Drum Compactor	1SurveyorGas Line Inst.	
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavators (2) removed structural fill material from cell floor. Contractor haulers carried structural fill material to be placed on west and south berms. Contractor dozers graded cell floor. Output dozers graded cell floor.		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Began work on 8th lift on west and south berm and finished it the same day. Began work on 9th lift on west and south berm.		
compaction more times if allowable Smooth roller used to create	the testing nads	
OPERATIONAL CONCERNS & SOLUTIONS:		
Note: Conjes of all completed "Project Field Record Forms" are to be suit	omitted to the Project Manager at the end	
of each day and should be maintained with the Project Records.	sinteed to the moject manager at the ond	



Daily Proje	t Construction	Summary
		<u> </u>

Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 3/14/2018	
	WEATHER:
Contractor: SFC	
Project Name: Turk Cell 2 CQA	
Location: Fullon, AR	
Representative: Grey Wille	
Test Location: Cell 2	$\square \text{ Foggy / Misty } \frac{70^{\circ}\text{F}}{10^{\circ}\text{F}} \text{ High Temp. (°F)}$
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 A.M. Depart Site: 7:00 P.M.	X Moisture/Density Subgrade
Arrive Site: 6:30 A.M. Arrive Lab: 7:15 P.M.	Shelby Tube(s) Clay Liner
FOUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
3 Evcavator(s) Skidsteer	12 Contractor
Backhoe(s) Water Truck	1 COA Consultant Concrete Crew
3 Haul Truck(s) 1 Speens Foot Compactor	Design Engineer Pine Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst
OA/OC Expectations:	
Observe contractors remove structural fill material place it as s	tructural fill on west and south berm and
perform density tests to verify passing compaction	tractarar million west and south berm, and
perform density tests to verify passing compaction.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavators (2) removed structural fill material to be	<u>placed in west berm.</u>
Contractor dozers graded cell floor.	
Contractor naulers nauled material to west and south perm.	
Contractor compactors covored material until passing compacti	on
<u>contractor compactors covered material until passing compactor</u>	<u>011.</u>
LIFTS WORKED AND COMPACTION EFFORTS:	
LIETS: Ninth, tenth, most of eleventh lift placed on west and sou	uth berm.
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	um of 4 passes over material to knead into
compaction, more if allowable. Contractor smooth roller created	d testing pads.
OPERATIONAL CONCERNS & SOLUTIONS:	



Daily Project Construction Summa

[erracon]
25809 Interstate 30 South
Pryant AD 72022

Project No: <u>35177127</u>	(501) 847-9292	
Date of Report: 3/15/2018		
Client Name: American Electric Power	WEATHER:	
Contractor: SFC	X Clear X Cold	
Project Name: Turk Cell 2 CQA		
Location: Fulton, AR	Partly Cloudy Warm	
Representative: Greg Witte	Raining Hot	
Technician: Matt Acree	Windy <u>45°F</u> Low Temp. (°F)	
Test Location: Cell 2	Foggy / Misty <u>72°F</u> High Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:15 A.M. Depart Site: 6:45 PM	X Moisture/Density Subgrade	
Arrive Site: 6:30 A.M. Arrive Lab: 7:00 P.M.	Shelby Tube(s) Clay Liner	
FOUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	2 Client Liner Crew	
2 Excavator(s) Skidsteer	12 Contractor Liner Installer	
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew	
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.	
Observe contractors remove structural fill material, place it as structural fill on west berm, and perform. density tests to verify passing compaction. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavators (2) removed structural fill material to be placed in west berm. Contractor dozers graded cell floor. Contractor haulers hauled material to west and south berm. Contractor sheeps foot covered material until passing compaction. Smooth drum created testing pads and passed over entirety of west and south berm to seal. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Twelfth, thirteenth, and part of fourteenth lifts placed on south of west berm and south berm.		
COMPACTION EFFORT: Contractor sheeps foot made a minimum of 4 passes over material to knead into compaction, more if allowable. Contractor smooth roller created testing pads. OPERATIONAL CONCERNS & SOLUTIONS: Possible rain overnight/in the morning. Smooth drum is covering west and south berm to reduce water infiltration.		
Note: Copies of all completed "Project Field Record Forms" are to be sub	bmitted to the Project Manager at the end	



Daily Project Construction Summary

25809	Interstate 30 South
	Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 3/16/2018	
Client Name: American Electric Power	WEATHER:
Contractor: SFC	
Project Name: Turk Cell 2 CQA	X Cloudy X Cool
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	Raining Hot
Technician: Matt Acree	Windy <u>61°F</u> Low Temp. (°F)
Test Location: Cell 2	xFoggy / Misty84°FHigh Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 A.M. Depart Site: 7:00 P.M.	X Moisture/Density Subgrade
Arrive Site: 6:30 A.M. Arrive Lab: 7:15 P.M.	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	2 Client Liner Crew
2 Excavator(s) Skidsteer	10 Contractor Liner Installer
Backhoe(s) Water Truck	1 COA Consultant Concrete Crew
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst
QA/QC Expectations:	
Observe contractors remove structural fill material, place it as st	tructural fill on west and south berms, and
perform density tests to verify passing compaction.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavators (2) removed structural fill material to be	placed in west and south berms.
Contractor dozers graded cell floor and leveled lift material.	
Contractor haulers hauled material to west and south berm	
Contractor sheeps foot covered material until passing compaction	on. Smooth drum created testing pads and
passed over entirety of west and south berm to seal.	
Work was performed by contractor on west side of west berm to	o bring slope up to grade and prevent water
I trom ponding at the bottom.	
LIFTS: Finished fourteenth lift on south end and resumed work of	on north half of west berm. Fourth and
seventh lifts added to the north end of west berm.	
COMPACTION EFFORT: Contractor sheeps foot made a minimur	m of 4 passes over material to knead into
compaction, more if allowable. Contractor smooth roller created	d testing pads.
Misty rain from arrival to around 9:00 A M	
Note: Copies of all completed "Project Field Record Forms" are to be suit	bmitted to the Project Manager at the end
of each day and should be maintained with the Draigst Decords	



Project No: <u>35177127</u>	(501) 847-9292	
Date of Report: 3/17/2018		
Client Name: American Electric Power	WEATHER:	
Contractor: SFC		
Project Name: Turk Cell 2 CQA	X Cloudy X Cool	
Location: Fulton, AR	x Partly Cloudy x Warm	
Representative: Greg Witte	Raining Hot	
Technician: Matt Acree	Windy 55°F Low Temp. (°F)	
Test Location: Cell 2	Foggy / Misty 78°F High Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:15 A.M. Depart Site: 1:30 P.M.	X Moisture/Density Subgrade	
Arrive Site: 6:30 A.M. Arrive Lab: 2:45 P.M.	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
2 Dozer(s) Tractor & Pans	2 Client Liner Crew	
2 Excavator(s) Skidsteer	10 Contractor Liner Installer	
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew	
4 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.	
QA/QC Expectations:		
Observe contractors remove structural fill material, place on we	stern side of west berm, and haul to	
SUMMARY OF ACTIVITIES OBSERVED:		
Contractor excavators (2) removed structural fill material to be placed on west side of west berm.		
Contractor degars graded call floor and lavaled lift material		
Contractor dozers graded cell floor and leveled lift material.		
Contractor haulers hauled material to west side of west berm.		
Contractor sheeps foot covered material until passing compactic	<u>on.</u>	
Work was performed by contractor on west side of west berm to	o bring slope up to grade and prevent water	
from ponding at the bottom.		
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: Material placed on west side of west berm in lifts to raise elevation to adjust west slope. No structural		
fill placed.		
COMPACTION EFEORT: Contractor sheeps foot made a minimum	n of 4 passas over material to knead into	
compaction, more if allowable.	n or + passes over material to knead into	
OPERATIONAL CONCERNS & SOLUTIONS: With expectant rain on 2, 18, 18, smooth drum compacted placed structural fill to reduce water infiltration		
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end	



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022	
Project No: <u>35177127</u> Date of Pepert: <u>3/19/2020</u>	(501) 847-9292	
Client Name: American Electric Power	WEATHER:	
Contractor: SFC	x Clear Cold	
Project Name: Turk Cell 2 CQA	Cloudy 🔀 Cool	
Location: Fulton, AR	Partly Cloudy X Warm	
Representative: Greg Witte	Raining Hot	
Technician: Matt Acree	X Windy <u>63°F</u> Low Temp. (°F)	
Test Location: Cell 2	Foggy / Misty <u>76°F</u> High Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 11:00 A.M. Depart Site: 7:00 P.M.	Moisture/Density Subgrade	
Arrive Site: 1:30 P.M. Arrive Lab: 7:15 P.M.	Shelby Tube(s) Clay Liner	
EOUIPMENT ONSITE:	PERSONNEL ONSITE:	
1 Dozer(s) Tractor & Pans	1 Client Liner Crew	
2 Excavator(s) Skidsteer	11 Contractor Liner Installer	
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew	
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grader(s) Smooth Drum Compactor	<u>1</u> Surveyor Gas Line Inst.	
Observe placement of structural fill outside of cell boundaries on south end. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavators (2) removed structural fill material from cell to be placed on south berm. Contractor haulers (4) transported material from point of origin to south berm.		
Contractor sheeps foot passed over all placed material to bring	to compaction.	
Motor grader passed over cell floor to reduce rutting and to bring cell floor to grade.		
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: Structural fill material placed outside of cells to bring slopes to grade.		
COMPACTION EFFORTS: Sheeps foot compacted material with at least four passes, more when time permitted.		
OPERATIONAL CONCERNS & SOLUTIONS:		
High winds drying out material as it is placed. Water truck was out to douse between lifts.		
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end	

of each day and should be maintained with the Pr	roject Records.
--	-----------------



Project No: <u>35177127</u>	(501) 847-9292	
Date of Report: 3/20/2018		
	WEATHER:	
Contractor: SFC		
Project Name: Turk Cell 2 CQA	X Cloudy X Cool	
Location: Fulton, AR	X Partiy Cloudy Warm	
Representative: Greg Wille		
Technician: Matt Acree	$\frac{1}{\sqrt{4^2 F}}$ Windy $\frac{47 F Low Temp. (*F)}{\sqrt{4^2 F}}$	
Test Location: Cell 2	<u> </u>	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:15 A.M. Depart Site: 7:00 P.M.	Moisture/Density Subgrade	
Arrive Site: 6:30 A.M. Arrive Lab: 7:15 P.M.	Shelby Tube(s) Clay Liner	
FOUIPMENT ONSITE:	PERSONNEL ONSITE:	
1 Dozer(s) Tractor & Pans	1 Client Liner Crew	
2 Excavator(s) Skidsteer	11 Contractor Liner Installer	
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew	
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.	
QA/QC Expectations:		
Observe removal of compacted gravel, observe work on south s	side of south berm, and possibly test	
structural fill compaction.		
SUIVINARY OF ACTIVITIES OBSERVED:	computing structural fill material from coll	
Contractor excavators (2) completed removal of gravel. Began removing structural fill material from cell		
<u>TIOOF.</u>		
Contractor sheeps foot kneaded placed material to raise compa	action	
onitactor sheeps root kneaded placed materiar to raise compa		
Contractor dozers graded cell floor and moved hauled material	into place.	
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: No additional lifts added.		
COMPACTION EFFORTS: Sheeps foot made a minimum of four passes to meet compaction. More efforts		
were undertaken when time allowed.		
Windy conditions dried placed material, water truck went over to increase moisture.		
Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end	
	······································	


Daily	/ Pro	ject	Construction	Summary	/
-------	-------	------	--------------	---------	---

Daily Proje	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022
Project No:	<u>35177127</u>		(501) 847-9292
Date of Report:	3/21/2018	[
Client Name:	American Electric Power	WEATHER:	
Contractor:	SFC	x Clear	x Cold
Project Name:	Turk Cell 2 CQA	Cloudy	x Cool
Location:	Fulton, AR	Partly Cloudy	Warm
Representative:	Greg Witte	Raining	Hot
Technician:	Matt Acree	Windy	39°F Low Temp. (°F)
Test Location:	Cell 2	Foggy / Misty	66°F High Temp. (°F)
REPORTING TIM	ES:	FIELD TESTING PERFOR	MED:
Depart Lab:	6:15 A.M. Depart Site: 7:00 P.M.	X Moisture/Density	Subgrade
Arrive Site:	6:30 A.M. Arrive Lab: 7:15 P.M.	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
2 Dozer(s)	Tractor & Pans	1 Client	Liner Crew
2 Excavator(s	s) Skidsteer	12 Contractor	Liner Installer
Backhoe(s)	1 Water Truck	1 CQA Consultant	Concrete Crew
4 Haul Truck((s) 1 Sheeps Foot Compactor	Design Engineer	Pipe Installer
1 Motor Grad	der(s) 1 Smooth Drum Compactor	1 Surveyor	Gas Line Inst.
QA/QC Expectati	ions:		
Observe remov	al of structural fill material, placement of mater	ial, compaction efforts, a	nd perform density
<u>tests.</u>			
SUMMARY OF A	CTIVITIES OBSERVED:		
Contractor exca	avators (2) removed structural fill material.		
<u>Contractor hau</u>	lers transported structural fill material to south.	and west berms for lift pl	<u>acement.</u>
Contractor sheeps foot compacted placed material until it meets compaction.			
Contractor water truck moistened dry material throughout the day.			

ferracon

LIFTS WORKED AND COMPACTION EFFORTS:

LIFTS: Partial addition of lift 8 and 9 on northern portion of west berm, 15th lift added to southern west berm and south berm with 16th started.

COMPACTION EFFORTS: Sheeps foot made a minimum of four passes to meet compaction. More efforts were undertaken when time allowed. Smooth roller created pads for density tests.

OPERATIONAL CONCERNS & SOLUTIONS:

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Constr	uction Summary
-----------------------------	----------------

٦Г	erracon
2	25809 Interstate 30 South
	Bryant AD 72022

Project No: <u>35177127</u>	(501) 847-9292			
Date of Report: 3/22/2018				
	WEATHER:			
Project Name: Turk Cell 2 COA				
Location: Fulton AP	Partly Cloudy V Warm			
Representative: Greg Witte				
Technician: Matt Acree	\square Windy 43° F low Temp. (°F)			
Test Location: Cell 2	$\Box Foggy / Misty 74°F High Temp. (°F)$			
Dopart Jahr 6:15 A M Dopart Sito: 6:15 P M	X Moisturo/Donsity Subgrade			
Depart Lab. 0.15 A.M. Depart Site. 0.15 P.M. Arrive Site: 6:30 A.M. Arrive Lab: 6:30 P.M.	Shelby Tube(s)			
EQUIPMENT ONSITE:	PERSONNEL ONSITE:			
2 Dozer(s) Tractor & Pans	Client Liner Crew			
2 Excavator(s) Skidsteer	13 Contractor Liner Installer			
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew			
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer			
Motor Grader(s) Smooth Drum Compactor	Gas Line Inst.			
QA/QC Expectations:				
Observe removal of structural fill material, placement of materi	al, compaction efforts, and perform density			
tests.				
SUMMARY OF ACTIVITIES OBSERVED:				
Contractor excavators (2) removed structural fill material.				
Contractor haulers transported structural fill material to south a	Contractor haulers transported structural fill material to south and west berms for lift placement.			
Contractor sheeps foot compacted placed material until it meet	ts compaction			
contractor sneeps tool compacted placed material drift meet	is compaction.			
Contractor water truck moistened dry material at various intervals throughout the day				
LIFTS WORKED AND COMPACTION EFFORTS:				
LIFTS: Contractor placed lifts 16 and 17 on south half of west be	erm and south berm.			
COMPACTION EFFORTS: Sheeps foot made a minimum of four passes to meet compaction. More efforts				
were undertaken when time allowed. Smooth roller created pads for density tests.				
OPERATIONAL CONCERNS & SOLUTIONS				



Daily Project	Construction	Summary
----------------------	--------------	---------

lerracon
25809 Interstate 30 South
Bryant AR 72022

Project No: <u>35177127</u>	(501) 847-9292		
Client Name: American Electric Power	WEATHER		
Contractor: SEC.			
Project Name: Turk Cell 2 COA			
Location: Fulton AR	X Odday X Partly Cloudy Warm		
Representative: Greg Witte			
Tochnician: Matt Acree	\square Windy $55^{\circ}Elow Temp (°E)$		
Test Location: Cell 2	$\Box = \frac{331}{72^{\circ}\text{E}} \text{ High Temp. (*)}$		
	FIELD TESTING PERFORIVIED.		
Depart Lab: 6:30 A.M. Depart Site: 7:00 P.M.	Moisture/Density Subgrade		
Arrive Site: 6:45 A.IVI. Arrive Lab: 7:15 P.IVI.			
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
<u>3</u> Dozer(s) Tractor & Pans	<u>1</u> Client Liner Crew		
3 Excavator(s) Skidsteer	<u>13</u> Contractor Liner Installer		
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew		
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer		
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.		
QA/QC Expectations:	al compaction offerts and perform density		
Observe removal of structural fill material, placement of material	al, compaction efforts, and perform density		
SUMMARY OF ACTIVITIES OBSERVED:			
<u>Contractor excavators (2) removed structural fill material.</u>			
Contractor haulers transported structural fill material to south a	and west berms for lift placement.		
Contractor sneeps foot compacted placed material until it meet	is compaction.		
Contractor water truck moistened dry material at various intervals throughout the day			
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS: Contractor placed lifts 18, 19, and part of 20 on south half of west berm and south berm.			
COMPACTION EFFORTS: Sheeps foot made a minimum of four passes to meet compaction. More efforts			
were undertaken when time allowed. Smooth roller created pads for density tests.			
OPERATIONAL CONCERNS & SOLUTIONS:			
Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end		



Date of Report 3/24/2018	(501) 047-9292		
Client Name: American Electric Power	WEATHER:		
Contractor: SEC	Clear Cold		
Project Name: Turk Cell 2 COA			
Location: Fulton AP	X Partly Cloudy X		
Poprosontativo: Grog Witto			
Tasknisian	$\square Kaining \square Hot \square Mindu = E4°E Loui Tomp (°E)$		
	St F Low Temp. (F)		
	Foggy / Misty 75°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:15 A.M. Depart Site: 7:00 P.M.	X Moisture/Density Subgrade		
Arrive Site: 6:30 A.M. Arrive Lab: 8:45 P.M.	Shelby Tube(s) Clay Liner		
FOUIPMENT ONSITE:	PERSONNEL ONSITE:		
3 Dozer(s) Tractor & Pans	1 Client Liner Crew		
2 Evenuator(c) Skidstoor	12 Contractor		
Z Excavatol (5) Skiusteel	1 COA Concultant		
Dackfilde(s) Water fluck			
4 Haul Truck(s) 1 Sneeps Foot Compactor			
<u> </u>	Gas Line Inst.		
OA/OC Expectations:			
Observe removal of structural fill material placement of mater	rial compaction efforts and perform density		
	nar, compaction enorts, and perform density		
<u></u>			
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor excavators (2) removed structural fill material.			
Contractor baulors transported structural fill material to south	and wast harms for lift placement		
Contractor haulers transported structural fill material to south and west berms for lift placement.			
	<u> </u>		
Contractor sheeps foot compacted placed material until it mee	ets compaction.		
Contractor sheeps foot compacted placed material until it mee	ets compaction.		
Contractor sheeps foot compacted placed material until it mee	ets compaction. Evals throughout the day		
Contractor sheeps foot compacted placed material until it mee Contractor water truck moistened dry material at various inter	ets compaction.		
Contractor sheeps foot compacted placed material until it mee Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor	ets compaction.		
Contractor sheeps foot compacted placed material until it meet Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS:	ets compaction. vals throughout the day		
Contractor sheeps foot compacted placed material until it mee Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b	ets compaction. Evals throughout the day berm and south berm.		
Contractor sheeps foot compacted placed material until it meet Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b	ets compaction.		
Contractor sheeps foot compacted placed material until it meet Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b COMPACTION EFFORTS: Sheeps foot made a minimum of four	ets compaction. Evals throughout the day berm and south berm. E passes to meet compaction. More efforts		
Contractor sheeps foot compacted placed material until it meet Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b COMPACTION EFFORTS: Sheeps foot made a minimum of four were undertaken when time allowed. Smooth roller created particular	ets compaction. Evals throughout the day eerm and south berm. Passes to meet compaction. More efforts ads for density tests		
Contractor sheeps foot compacted placed material until it meet Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b COMPACTION EFFORTS: Sheeps foot made a minimum of four were undertaken when time allowed. Smooth roller created page	ets compaction. Evals throughout the day berm and south berm. Transfer passes to meet compaction. More efforts ads for density tests.		
Contractor sheeps foot compacted placed material until it meet Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b COMPACTION EFFORTS: Sheeps foot made a minimum of four were undertaken when time allowed. Smooth roller created patients OPERATIONAL CONCERNS & SOLUTIONS:	ets compaction. Evals throughout the day berm and south berm. To passes to meet compaction. More efforts ads for density tests.		
Contractor sheeps foot compacted placed material until it meet Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b COMPACTION EFFORTS: Sheeps foot made a minimum of four were undertaken when time allowed. Smooth roller created pa OPERATIONAL CONCERNS & SOLUTIONS:	ets compaction. Evals throughout the day eerm and south berm. Passes to meet compaction. More efforts ads for density tests.		
Contractor sheeps foot compacted placed material until it meet Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b COMPACTION EFFORTS: Sheeps foot made a minimum of four were undertaken when time allowed. Smooth roller created pa OPERATIONAL CONCERNS & SOLUTIONS:	ets compaction. Evals throughout the day berm and south berm. To passes to meet compaction. More efforts ads for density tests.		
Contractor sheeps foot compacted placed material until it meet Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b COMPACTION EFFORTS: Sheeps foot made a minimum of four were undertaken when time allowed. Smooth roller created pa OPERATIONAL CONCERNS & SOLUTIONS:	ets compaction. Evals throughout the day erm and south berm. Passes to meet compaction. More efforts ads for density tests.		
Contractor sheeps foot compacted placed material until it mee Contractor water truck moistened dry material at various inter Contractor dozers graded slopes and cell floor` LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Contractor placed lifts 21 and 22 on south half of west b COMPACTION EFFORTS: Sheeps foot made a minimum of four were undertaken when time allowed. Smooth roller created pa OPERATIONAL CONCERNS & SOLUTIONS:	ets compaction. Evals throughout the day eerm and south berm. Passes to meet compaction. More efforts ads for density tests.		



	lerraron
Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 3/26/2018	
Client Name: American Electric Power	WEATHER:
Contractor: SFC	
Project Name: Turk Cell 2 CQA	X Cloudy X Cool
Location: Fullon, AR	X Partiy Cloudy X Warm
Technician: Matt Acree	\square Windy 66° E low Temp (°E)
Test Location: Cell 2	Fogay / Misty 83° F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: /:00 A.M. Depart Site: /:00 P.M.	Moisture/Density Subgrade
Arrive Site: 8:45 A.M. Arrive Lab: 7:15 P.M.	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	1 Client Liner Crew
2 Excavator(s) Skidsteer	13ContractorLiner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
I Motor Grader(s) Smooth Drum Compactor	Gas Line Inst.
Observe earth-moving procedures and possibly take density te	sts
	555.
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor dozer graded slopes outside of cell. Separate dozer	spread structural fill material into lift on south
<u>Contractor excavator loaded baulers with structrual fill materia</u>	al scraped from west berm slopes
	a soluped non west bern slopes.
Contractor haulers transported structural fill material to south	berm to be used as fill.
Contractor water truck moistened material between lifts.	
LIFTS: Placed the first lift on top of subgrade on east end of so	uth berm
COMPACTION EFFORTS: Contractor sheeps foot made a minim	num of four passes over material to compact,
more if time allowed.	
OPERATIONAL CONCERNS & SOLUTIONS:	



Daily Project Construction Summary	Terracon	
Project No: <u>35177127</u> Date of Report: 3/27/2018	Bryant, AR 72022 (501) 847-9292	
Client Name: American Electric Power	WEATHER:	
Contractor: SEC	Clear	
Project Name: Turk Cell 2 COA		
Location: Fulton AR	Partly Cloudy Warm	
Representative: Greg Witte		
Technician: Matt Acree	X Windy 64°F Low Temp. (°F)	
Test Location: Cell 2	Foggy / Misty 81°F High Temp. (°F)	
Depart John 6:15 A M Depart Site: 6:20 D M	X Moisture (Density Subgrade	
$\begin{array}{cccc} \text{Depart Lab:} & \underline{\text{O.15 A.IVI.}} & \underline{\text{Depart Site:}} & \underline{\text{O.50 P.IVI.}} \\ \text{Arrive Site:} & \underline{\text{O.30 A M}} & \underline{\text{Arrive Lab:}} & \underline{\text{Sit5 P M}} \\ \end{array}$	Shelby Tube(s)	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
2 Dozer(s) Iractor & Pans	I Client Liner Crew	
Z Excavator(s) Skidsteer		
Backhoe(s) <u>I</u> Water Huck		
4 Haul Huck(s) 1 Sneeps Foot compactor	Design EngineerPipe Installer	
OA/OC EXPECTATIONS:		
Observe earth-moving procedures and possibly take density te SUMMARY OF ACTIVITIES OBSERVED:	ests.	
<u>Contractor dozer spread structural fill material into lift on sout</u>	th end.	
Contractor excavator removed structural fill material from cell	I floor to be moved to south berm.	
Contractor haulers transported material from north end of cel	I floor to south berm.	
Water truck moistened material between lifts.		
Contractor smooth drum went over cell floor to compact.		
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: Placed lifts 3, 4, 5, and 6 on east end of south berm		
COMPACTION EFFORTS: Contractor sheeps-foot made a minir	num of four passes over material to bring to	
compaction. Smooth drum created test pads.		
OPERATIONAL CONCERNS & SOLUTIONS:		
Incoming rain this evening and tomorrow, smooth drum comp	bacted all worked material to seal off from	
infiltration.		
Note: Copies of all completed "Project Field Record Forms" are to be s	submitted to the Project Manager at the end	



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022		
Project No: 35177127 Date of Report: 4/3/2018	(501) 847-9292		
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: Clear Cold X Cloudy Cool Partly Cloudy X Warm Raining Hot Windy 72°F Low Temp. (°F) Foggy / Misty 79°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab:7:00 A.M.Depart Site:3:30 P.M.Arrive Site:8:45 A.M.Arrive Lab:5:15 P.M.	Moisture/Density Subgrade Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
3Dozer(s)Tractor & Pans1Excavator(s)SkidsteerBackhoe(s)Water Truck3Haul Truck(s)11Motor Grader(s)Smooth Drum Compactor	1ClientLiner Crew9ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.		
QA/QC EXPECTATIONS:			
Be prepared for density testing if needed. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden and loaded material Contractor haulers transported overburden material to stockpile	into haulers.		
Contractor dozer (1) helped excavator with loading material, oth by cleaning in borrow area and around berm slopes.	her dozers (2) performed housekeeping work		
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS: No structural fill material placed.			
COMPACTION EFFORTS: No structural fill material placed.			
OPERATIONAL CONCERNS & SOLUTIONS:			
Note: Copies of all completed "Project Field Record Forms" are to be sul	bmitted to the Project Manager at the end		



Daily Project Construction Summary	25809 Interstate 30 South		
Project No: <u>35177127</u> Date of Report: 4/4/2018	Bryant, AR 72022 (501) 847-9292		
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: x Clear x Cold Cloudy x Cool Partly Cloudy Warm Raining Hot Windy 42°F Low Temp. (°F) Foggy / Misty 61°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab:7:00 A.M.Depart Site:7:00 P.M.Arrive Site:8:45 A.M.Arrive Lab:7:15 P.M.	X Moisture/Density Subgrade Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
3 Dozer(s) Tractor & Pans 2 Excavator(s) Skidsteer Backhoe(s) 1 Water Truck 4 Haul Truck(s) 1 Sheeps Foot Compactor 1 Motor Grader(s) 1 Smooth Drum Compactor	2ClientLiner Crew11ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.		
QA/QC EXPECTATIONS:			
Observe placement of structural fill material on south berm and SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed structural fill material from floo	d take passing density tests. r of cell 2 and loaded into haulers.		
Contractor haulers transported material from excavation site to	o south berm.		
Contractor dozers spread structural fill material and performed housekeeping duties.			
Contractor grader kept cell floor and roads smooth and rut free	<u>9.</u>		
Water truck sprayed as necessary, keeping structural fill at opti	mum moisture.		
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS: Placed lifts 7, 8, and 9 on south berm, part of lift 9 on no	rth end of west berm.		
COMPACTION EFFORTS: Contractor sheeps foot made a minim if time allowed. Smooth drum created density testing pads.	um of four passes over placed material, more		
OPERATIONAL CONCERNS & SOLUTIONS:			
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end		



	lerracon			
Daily Project Construction Summary	25809 Interstate 30 South Bryant AP 72022			
Project No: <u>35177127</u>	(501) 847-9292			
Date of Report: 4/5/2018				
Client Name: American Electric Power	WEATHER:			
Contractor: SFC				
Project Name: Iurk Cell 2				
Location: Fulton, AR	x Partly Cloudy x Warm			
Representative: Greg Witte	X Raining Hot			
Technician: Matt Acree	$\frac{42^{\circ}F}{100}$ Windy $\frac{42^{\circ}F}{100}$ Windy $\frac{42^{\circ}F}{100}$			
Test Location: Cell 2	Foggy / Misty <u>79°F</u> High Temp. (°F)			
REPORTING TIMES:	FIELD TESTING PERFORMED:			
Depart Lab: 6:15 A.M. Depart Site: 4:00 P.M.	X Moisture/Density Subgrade			
Arrive Site: 6:30 A.M. Arrive Lab: 6:45 P.M.	Shelby Tube(s)			
3 Dozer(s) Tractor & Pans	1 Client Liner Crew			
1 Excavator(s) Skidsteer	12 Contractor			
Backboe(s) 1 Water Truck	1 COA Consultant Concrete Crew			
A Haul Truck(s) 1 Sheens Foot Compactor	Design Engineer Pine Installer			
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst			
Observe placement of structural fill and perform density tests				
SUMMARY OF ACTIVITIES OBSERVED:				
Contractor excavators removed structural fill material from cell floor and also removed overburden.				
Excavator also began work on trench to install pipe in south berm.				
<u>Contractor dozers spread structural fill material and graded cer</u>	<u>111001.</u>			
Contractor baulers transported structural fill material to porth	end of west berm and north berm			
	ond of west sonn and north sonn.			
Contractor motor grader graded cell floor after haulers.				
Water truck used minimally in the morning.				
LIFTS WORKED AND COMPACTION EFFORTS:				
LIFTS: Finished lift 8 on north end of west berm and began wor	k on first lift of north berm.			
	um of 4 poppo over meterial to being out a			
COMPACTION EFFORTS: Contractor sneeps tool made a minim	ium of 4 passes over material to bring up to			
compaction. Smooth drum created testing pads.				
OPERATIONAL CONCERNS & SOLUTIONS:				
Rain in the forecast for tonight and tomorrow. All placed mater	rial will be sealed with smooth drum to			
prevent infiltration.				
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end			
of each day and should be maintained with the Project Records.				



Daily Project Construction Summary	1	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u> Date of Report: <u>4/6/2018</u> Client Name: <u>American Electric Power</u>	W/FATHER:	(501) 847-9292
Contractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	Clear Cloudy Partly Cloudy X Raining Windy Foggy / Misty	Cold Cold X Cool Warm Hot 60°F Low Temp. (°F) 62°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFOR	RMED:
Depart Lab:7:15 AMDepart Site:10:45 AMArrive Site:9:15 AMArrive Lab:2:00 PM	Moisture/Density Shelby Tube(s)	Subgrade Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3Dozer(s)Tractor & Pans1Excavator(s)SkidsteerBackhoe(s)Water Truck3Haul Truck(s)1Motor Grader(s)Smooth Drum Compactor	1 Client 12 Contractor 1 CQA Consultant Design Engineer 1 Surveyor	Liner Crew Liner Installer Concrete Crew Pipe Installer Gas Line Inst.
OA/OC EXPECTATIONS		
Observe placement of structural fill and perform density tests.		
SUMMARY OF ACTIVITIES OBSERVED:		
Contractor excavators removed structural fill material.		
Contractor haulers transported material to north berm.		
Contractor dozers spread placed structural fill material.		
Contractor sheeps foot worked material to compaction.		
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: No full lifts placed.		
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of 4 passes over ma	terial to bring up to
compaction. Smooth drum created testing pads.		
OPERATIONAL CONCERNS & SOLUTIONS:		da e a va ta
kain in the forecast for today. All placed material will be sealed v infiltration.	vith smooth drum and	aozers to prevent
Note: Copies of all completed "Project Field Record Forms" are to be sub of each day and should be maintained with the Project Records.	mitted to the Project Ma	nager at the end



Daily	Project	Construction	Summary
<i>j</i>		••••••	<u> </u>

Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 4/9/2018	
	WEATHER.
Contractor: SFC	
Location: Fulton AP	V Partly Cloudy V Warm
Tochnician: Matt Acroo	$\square Windy \qquad \qquad 58^{\circ} E \log Tomp (^{\circ} E)$
	$\frac{361}{1000} = \frac{1000}{1000} = \frac{1000}{1000}$
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 10:15 AM Depart Site: 7:00 PM	X Moisture/Density Subgrade
Arrive Site: 12:00 PM Arrive Lab: 7:30 PM	Shelby Tube(s) X Clay Liner
EOUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	4 Client Liner Crew
2 Excavator(s) Skidsteer	13 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of structural fill and clay material and perfor	rm density compaction tests.
SUMMARY OF ACTIVITIES OBSERVED:	
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure	ıral fill material.
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor excavator removed overburden material and structur</u>	ural fill material.
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor excavator removed overburden material and structur</u> <u>Contractor haulers transported overburden to stockpile and clay</u> leachate pipe trench	ural fill material. y material to south berm for clay liner for the
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structur Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm	ural fill material. y material to south berm for clay liner for the
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm	ural fill material. y material to south berm for clay liner for the n.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material.	ural fill material. y material to south berm for clay liner for the n.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material.	ural fill material. y material to south berm for clay liner for the n.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material.	<u>ural fill material.</u> y material to south berm for clay liner for the n.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material.	<u>y material to south berm for clay liner for the</u> <u>n.</u>
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS:	ural fill material. y material to south berm for clay liner for the n.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe and structure of the south berm pipe and	<u>y material to south berm for clay liner for the</u> <u>n.</u> area.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe and a structure of the st	<u>ural fill material.</u> <u>y material to south berm for clay liner for the</u> <u>n.</u> area.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe and the second secon	<u>y material to south berm for clay liner for the</u> <u>n.</u> area.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structur Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe and the start of the	<u>ural fill material.</u> <u>y material to south berm for clay liner for the</u> <u>n.</u> area. um of four passes to bring material to passing
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe and clay liner for s	<u>ural fill material.</u> <u>y material to south berm for clay liner for the</u> <u>n.</u> <u>area.</u> um of four passes to bring material to passing
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe and clay liner for s	<u>ural fill material.</u> <u>y material to south berm for clay liner for the</u> <u>n.</u> area. um of four passes to bring material to passing
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structur Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe a COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Smooth drum created testing pads. OPERATIONAL CONCERNS & SOLUTIONS: Some material may still be oversaturated from rain last Friday. 4	<u>ural fill material.</u> <u>y material to south berm for clay liner for the</u> <u>n.</u> <u>n.</u> area. um of four passes to bring material to passing 4.6.18.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structure Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe and clay line for south berm pipe and	<u>ural fill material.</u> <u>y material to south berm for clay liner for the</u> <u>n</u> . area. um of four passes to bring material to passing <u>4.6.18.</u>
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structur Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe and clay liner for so	<u>ural fill material.</u> <u>y material to south berm for clay liner for the</u> <u>n.</u> <u>area.</u> um of four passes to bring material to passing <u>4.6.18.</u>
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator removed overburden material and structur Contractor haulers transported overburden to stockpile and clay leachate pipe trench. Contractor dozers spread placed material and graded west berm Contractor sheeps foot compacted material. Contractor sheeps foot compacted material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Placed lifts 1, 2, 3, and 4 of clay liner for south berm pipe and compaction. COMPACTION EFFORTS: Contractor sheeps foot made a minimum compaction. OPERATIONAL CONCERNS & SOLUTIONS: Some material may still be oversaturated from rain last Friday, 4 Note: Copies of all completed "Project Field Record Forms" are to be sub-	ural fill material. y material to south berm for clay liner for the n. area. area. um of four passes to bring material to passing 4.6.18. bmitted to the Project Manager at the end



Daily Proj	act Construction Summary	llerracon	
Project No: Date of Report:	<u>35177127</u> 4/10/2018	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292	
Client Name:	American Electric Power	WEATHER:	
Contractor:	SFC	x Clear Cold	
Project Name:	Turk Cell 2	Cloudy X Cool	
Location:	Fulton, AR	Partly Cloudy X Warm	
Representative:	Greg Witte	Raining Hot	
Technician:	Matt Acree	Windy <u>45°F</u> Low Temp. (°F)	
Test Location:	Cell 2	Foggy / Misty <u>65°F</u> High Temp. (°F)	
REPORTING TIM	ES:	FIELD TESTING PERFORMED:	
Depart Lab:	6:15 AM Depart Site: 7:00 PM	X Moisture/Density Subgrade	
Arrive Site:	6:30 AM Arrive Lab: 7:30 PM	Shelby Tube(s) X Clay Liner	
EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
3 Dozer(s)	Tractor & Pans	2 Client Liner Crew	
2 Excavator(s	s) Skidsteer	12 Contractor Liner Installer	
Backhoe(s)	Water Truck	1 CQA Consultant Concrete Crew	
4 Haul Truck	(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grad	der(s) <u>1</u> Smooth Drum Compactor	Gas Line Inst.	
Observe structor SUMMARY OF A Contractor exca	ural fill placement, clay liner placement, and c CTIVITIES OBSERVED: avators removed structural fill material from c	onduct density tests. The sell floor and loaded into haul trucks.	
Contractor haulers transported clay material to south berm for pipe installation and structural fill material to the north berm.			
Contractor sheeps foot compacted material.			
LIFTS WORKED A	ND COMPACTION EFFORTS:		
LIFTS: Complet of the south be	ed second lift on north berm and began work rm.	on third, completed lifts 5-9 on the pipe section	
COMPACTION compaction. Sn	EFFORTS: Contractor sheeps foot made a min nooth drum created testing pads.	imum of four passes to bring material to passing	
OPERATIONAL C	ONCERNS & SOLUTIONS:		



Daily Project Construction Summary	25809 Interstate 30 South Bryant AB 72022		
Project No: <u>35177127</u> Date of Report: 4/11/2018	(501) 847-9292		
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg Witte	WEATHER: X Clear Cold Cloudy Cool Partly Cloudy Warm Raining Hot		
Technician:Matt AcreeTest Location:Cell 2	Windy50°F Low Temp. (°F)Foggy / Misty75°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab:6:15 AMDepart Site:7:00 PMArrive Site:6:30 AMArrive Lab:7:30 PM	X Moisture/Density Subgrade Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
3Dozer(s)Tractor & Pans2Excavator(s)1SkidsteerBackhoe(s)Water Truck4Haul Truck(s)1Sheeps Foot CompactorMotor Grader(s)1Smooth Drum Compactor	2ClientLiner Crew12ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.		
Observe placement of structural fill material and perform density compaction tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavators removed structural fill material from cell floor and loaded into haul trucks. Contractor baulers transported structural fill material to porth berm			
Contractor dozers spread placed material and graded cell floor.			
Contractor sheeps foot compacted material.			
LIFTS: Completed lifts 2 and 3 on the north berm and began wo	rk on the 4th.		
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Smooth drum created testing pads.	um of four passes to bring material to passing		
OPERATIONAL CONCERNS & SOLUTIONS:			
Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end		



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: <u>4/12/2018</u>	(501) 847-9292
Client Name: American Electric Power	WEATHER
Contractor. SFC	
Project Name: Turk Cell 2	
Location: Fulton, AR	X Partly Cloudy X Warm
Representative: Greg Witte	Raining Hot
Technician: Matt Acree	Windy 54°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty $67^{\circ}F$ High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 11:15 AM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 1:15 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
1 Excavator(s) Skidsteer	12 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 COA Consultant Concrete Crew
2 Haul Truck(s) 1 Shoons Foot Compactor	Dosign Engineer
<u>2</u> Hadi Huck(s) <u>1</u> Sheeps Foot compactor	1 Surveyor
Observe placement of structural fill material and perform densi SUMMARY OF ACTIVITIES OBSERVED: Contractor excavators removed structural fill material from cell Contractor haulers transported structural fill material to north I Contractor dozers spread placed material and graded cell floor. Contractor sheeps foot compacted material. Contractor motor grader graded cell floor.	I floor and loaded into haul trucks.
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Continued placing 4th lift on north berm.	
COMPACTION EFFORTS: Contractor sheeps foot made a minim	um of four passes to bring material to passing
compaction. Smooth drum created testing pads.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Rain expected 4.13.18. Smooth drum roller compacted placed s infiltration.	structural fill material to help prevent
Note: Copies of all completed "Project Field Record Forms" are to be su of each day and should be maintained with the Project Records.	ubmitted to the Project Manager at the end



Daily i reject construction cummary	Daily Pr	oject	Construction	Summary
-------------------------------------	-----------------	-------	--------------	---------

Project No: <u>35177127</u>	(501) 847-9292		
Date of Report: 4/16/2018			
	WEATHER:		
Contractor: SFC			
Location:	Partly Cloudy X Warm		
Technician Matt Acros	$\square \text{ Mindy} \qquad \square \Pi \text{U}$		
Technician. Iviati Acree	$\frac{OSF}{V} = \frac{OSF}{V} = OS$		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 10:00 AM Depart Site: 5:00 PM	Moisture/Density Subgrade		
Arrive Site: <u>11:45 AM</u> Arrive Lab: <u>5:30 PM</u>	Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
2 Dozer(s) Tractor & Pans	2 Client Liner Crew		
2 Excavator(s) Skidsteer	12ContractorLiner Installer		
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew		
2 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer		
Motor Grader(s) Smooth Drum Compactor	1SurveyorGas Line Inst.		
Observe construction of leachate pipe and placement of structur SUMMARY OF ACTIVITIES OBSERVED: Contractor assembled piping for leachate system. Contractor excavator removed structural fill material from borro	ral fill. Perform density tests as needed.		
Contractor haulers transported structural fill material from borro	ow area to north berm.		
Contractor dozers spread structural fill material into even lifts.			
Contractor water truck sprayed dry material to work more easily	y with.		
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS: Began work on 5th lift on north berm.			
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of four passes to bring material to passing		
compaction. Smooth drum created testing pads.			
OPERATIONAL CONCERNS & SOLUTIONS:			
Note Contact of all consults of "Deviced Field Deviced Fie			
of each day and should be maintained with the Project Records.	Dmilled to the Project Manager at the end		



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u> Date of Report: <u>4/17/2018</u>	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	x Clear Cold
Project Name: Turk Cell 2	Cloudy X Cool
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	Raining Hot
Technician: Matt Acree	\underline{X} windy $\underline{38 \text{ F Low Temp. (F)}}$
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:6:15 AMDepart Site:5:00 PMArrive Site:6:30 AMArrive Lab:5:30 PM	X Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	2 Client Liner Crew
1 Excavator(s) 1 Skidsteer	13ContractorLiner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
2 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
I Motor Grader(s) I Smooth Drum Compactor	Gas Line Inst.
Observe placement of structural fill and take density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor assembled piping for leachate system.	
Contractor excavator removed structural fill material from bor	row area.
Contractor haulers transported structural fill material from bor	row area to north berm.
Contractor dozers spread structural fill material into even lifts.	
Contractor water truck sprayed deteriorated material to work	more easily.
Contractor motor grader graded behind large haulers to minim	ize rutting.
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed 5th lift on north berm and began work on the	e 6th.
COMPACTION EFFORTS: Contractor sheeps foot made a minim	num of four passes to bring material to passing
compaction. Smooth drum created testing pads.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be s	ubmitted to the Project Manager at the end



ferracon
25809 Interstate 30 South
Brvant AR 72022

Project No: <u>35177127</u>		(501) 847-9292			
Date of Report: 4/18/2018					
Contractor: SEC	VEATHER.	old			
Project Name: Turk Cell 2					
Location: Fulton AR	x Partly Cloudy	/arm			
Representative: Greg Witte		ot			
Technician: Matt Acree	\mathbf{x} Windy $\mathbf{63^{\circ}F}$ LC	ov Dw Temp. (°F)			
Test Location: Cell 2	Foggy / Misty 80°F H	igh Temp. (°F)			
REPORTING TIMES:	FIELD TESTING PERFORMED:				
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density SU	ubarade			
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s)	lay Liner			
EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
2 Dozer(s) Tractor & Pans	2 Client Li	ner Crew			
1 Excavator(s) 1 Skidsteer	13 Contractor Li	ner Installer			
Backhoe(s) 1 Water Truck	1 CQA Consultant Co	oncrete Crew			
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pi	ipe Installer			
<u>1</u> Motor Grader(s) <u>1</u> Smooth Drum Compactor	<u>1</u> SurveyorG	as Line Inst.			
QA/QC EXPECTATIONS:					
Observe placement of structural fill and take density tests. Also	to test leachate pipes for leaks.				
SUMMARY OF ACTIVITIES OBSERVED:	a uf a una a d				
Contractor assembled piping for leachate system. Lesting was performed.					
Contractor excavator removed structural fill material from borre	ow area.				
Contractor haulers transported structural fill material from borrow area to north berm.					
Contractor dozors sproad structural fill material into oven lifte					
Contractor water truck sprayed deteriorated material to knead more easily.					
Contractor motor grader graded behind large haulers to minimize rutting.					
LIFTS WORKED AND COMPACTION EFFORTS:					
LIFTS: Completed lifts 6 and 7 and began work on lift 8.					
compaction. Smooth drum created testing pads					
OPERATIONAL CONCERNS & SOLUTIONS:					

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily	y Pro	ject Co	onstructio	on Summary

Project No: <u>35177127</u>	(501) 847-9292					
Date of Report: 4/19/2018						
Location: Fulton, AR	Partiy Cloudy X Warm					
Representative: Greg Witte						
Technician: Matt Acree	$\frac{1}{2005}$ Windy $\frac{42^{\circ}F}{1000}$ Low Temp. (°F)					
Test Location: Cell 2	$\square Foggy / Misty - \frac{70^{\circ}F}{10^{\circ}F} High Temp. (°F)$					
REPORTING TIMES:	FIELD TESTING PERFORMED:					
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade					
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner					
EQUIPMENT ONSITE:	PERSONNEL ONSITE:					
3 Dozer(s) Tractor & Pans	2 Client Liner Crew					
3 Excavator(s) Skidsteer	13 Contractor Liner Installer					
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew					
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer					
1 Motor Grader(s) 1 Smooth Drum Compactor	1SurveyorGas Line Inst.					
QA/QC EXPECTATIONS:						
Observe placement of structural fill and take density tests. Also	to test leachate pipes for leaks.					
SUMMARY OF ACTIVITIES OBSERVED:						
Contractor assembled piping for leachate system. Testing was p	erformed. Pipe was moved by contractor					
excavators to south berm for installation. Began covering with clay liner material.						
Contractor excavator removed structural fill material from borrow area.						
Contractor naulers transported structural fill material from borr	ow area to north berm.					
Contractor dozers spread structural fill material into even lifts						
Contractor water truck sprayed deteriorated material to knead	more easily.					
Contractor motor grader graded behind large haulers to minimize rutting.						
LIFTS: Completed lift 8, began work on lift 9						
Lif 13. completed int 6, began work of int 9.						
COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing						
compaction. Trench packer compacted clay liner material around leachate pipe. Smooth drum created						
testing pads.						
OPERATIONAL CONCERNS & SOLUTIONS:						
Note: Conice of all completed "Desired Field Descriptions" and here it	braittad to the Draiget Manager of the second					
of each day and should be maintained with the Project Records						
or each day and should be maintained with the Project Records.						


Daily Project Construction Summary	25809 Interstate 30 South	
Project No: <u>35177127</u> Date of Report: <u>4/20/2018</u>	Bryant, AR /2022 (501) 847-9292	
Client Name: American Electric Power	WEATHER:	
Contractor: SFC		
Project Name: Turk Cell 2	Cloudy X Cool	
Location: Fullon, AR	Paining Violation	
Tochnician: Matt Acree	$\square Windy \qquad \square \Pi U \\ \square Windy \qquad \qquad \square \Pi U \\ \square Windy \qquad \qquad \square \Pi U \\ \square U \\ \square V \\ $	
Test Location: Cell 2	$\Box Foggy / Misty 68^{\circ}F \text{ High Temp. (°F)}$	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:15 AM Depart Site: 5:00 PM	X Moisture/Density Subgrade	
Arrive Site: 6:30 AM Arrive Lab: 5:30 PM	x Shelby Tube(s) x Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	1 Client Liner Crew	
3 Excavator(s) Skidsteer	13ContractorLiner Installer	
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew	
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer	
<u>1</u> Motor Grader(s) <u>1</u> Smooth Drum Compactor	<u> </u>	
Observe placement of structural fill and take density tests.		
Solviviant of Activities Observed.	ting. Completed covering with clay liner	
material on south pipe	ting. completed covering with clay liner	
<u>Contractor excavator removed structural fill material and loaded into haulers.</u>		
Contractor haulers transported structural fill material.		
Contractor dozers spread structural fill material into even lifts.		
Contractor water truck sprayed deteriorated material to knead	I more easily.	
Contractor motor grader graded behind large haulers to minim	ize rutting.	
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: Completed lift 10 and 11 and began work on lift 12 at no	orth berm. Completed lifts 10-13 on south	
berm around pipe.		
COMPACTION EFFORTS: Contractor sheeps foot made a minim	num of four passes to bring material to passing	
compaction. Smooth drum created testing pads.		
OPERATIONAL CONCERNS & SOLUTIONS:		
Note: Copies of all completed "Project Field Record Forms" are to be si	ubmitted to the Project Manager at the end	



Daily Project Construction Summary		25809 Interstate 30 South Bryant AR 72022
Project No: <u>35177127</u>		(501) 847-9292
Client Name: American Electric Power	WEATHER:	
Contractor: SFC	Clear	Cold
Project Name: Turk Cell 2	X Cloudy	X Cool
Location: Fulton, AR	x Partly Cloudy	x Warm
Representative: Greg Witte		Hot
Technician: IViali Acree	Eoggy / Misty	$\frac{47}{68^{\circ}F}$ High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFO	DRMED:
Depart Lab:6:15 AMDepart Site:4:45 PMArrive Site:6:30 AMArrive Lab:6:45 PM	Shelby Tube(s)	ty Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	1 Client	Liner Crew
<u>1</u> Excavator(s) Skidsteer	13 Contractor	Liner Installer
Backhoe(s) 1 Water Truck	T CQA Consultant	
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor	Gas Line Inst.
QA/QC EXPECTATIONS:		
Observe placement of structural fill and take density tests.		
SUMMARY OF ACTIVITIES OBSERVED:		
Completed testing of final pipe.		
Contractor excavator removed structural fill material and loaded into haulers.		
Contractor haulers transported structural fill material.		
Contractor dozers spread structural fill material into even lifts.		
Contractor water truck sprayed deteriorated material to knead more easily.		
Contractor motor grader graded behind large haulers to minimize rutting.		
LIETS WORKED AND COMPACTION FEFORTS:		
LIFTS: Completed lift 12 on north berm. Completed lift 8 and 9 o	n south berm.	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of four passes to b	ring material to passing
compaction. Smooth drum created testing pads.	,	5 1 5
OPERATIONAL CONCERNS & SOLUTIONS:		
Expected rain in the evening. Smooth drum sealed sheeps foot tracks to prevent infiltration.		
Note: Copies of all completed "Project Field Record Forms" are to be sub	mitted to the Project N	lanager at the end
of each day and should be maintained with the Project Records.		



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 4/24/2018	Bryant, AR 72022 (501) 847-9292
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: x Clear Cold Cloudy X Cool Partly Cloudy X Warm Raining Hot Windy 55°F Low Temp. (°F) Foggy / Misty 70°F High Temp. (°F)
REPORTING TIMES:Depart Lab:5:30 AMDepart Site:5:15 PMArrive Site:7:15 AMArrive Lab:5:45 PM	FIELD TESTING PERFORMED: X Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:3Dozer(s)Tractor & Pans2Excavator(s)1Backhoe(s)Water Truck2Haul Truck(s)11Motor Grader(s)15Smooth Drum Compactor	PERSONNEL ONSITE:1Client13Contractor1CQA ConsultantConcrete CrewDesign Engineer1SurveyorGas Line Inst.
QA/QC EXPECTATIONS: Observe placement of structural fill and perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavators cut structural fill material from borrow a loaded it into contractor haulers. Contractor haulers transported material to south berm Contractor dozers graded cell floor and spread structural fill material	area and location of north berm pipe and aterial on south berm.
Contractor motor grader followed haulers to keep rutting minin	mized.
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lifts 10 and 11 and began work on lift 12.	
COMPACTION EFFORTS: Contractor sheeps foot made a minim compaction. Trench packer compacted clay liner material aroun testing pads. OPERATIONAL CONCERNS & SOLUTIONS:	num of four passes to bring material to passing nd leachate pipe. Smooth drum created
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South	
Project No: <u>35177127</u> Date of Report: <u>4/25/2018</u>	Bryant, AR 72022 (501) 847-9292	
Client Name: American Electric Power	WFATHER:	
Contractor: SEC		
Project Name [,] Turk Cell 2		
	Partly Cloudy Warm	
Poprocontativo: Crog Witto		
Tochnician: Matt Acroo	$\square Windy \qquad \qquad 50^{\circ} \text{E Low Tomp (°E)}$	
	$\Box = \frac{597}{1000} E = \frac{597}{10000} E = \frac{597}{1000} E =$	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:15 AM Depart Site: 5:00 PM	X Moisture/Density Subgrade	
Arrive Site: 6:30 AM Arrive Lab: 5:30 PM	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	1 Client Liner Crew	
1 Excavator(s) Skidsteer	13 Contractor Liner Installer	
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew	
2 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.	
Observe placement of structural fill material and perform densi	ity tests	
	<u> </u>	
SUMMARY OF ACTIVITIES OBSERVED		
Contractor excavators cut structural fill material cut from future	e location of north berm nine and loaded it	
into contractor haulers		
Contractor haulers transported material to south berm		
Contractor dozers graded cell floor and spread structural fill ma	aterial on south berm.	
Contractor motor grader followed haulers to keep rutting minimized.		
Contractor water truck wet deteriorated material between lifts.		
LIFTS: Completed lifts 12 and 13 Regan work on lift 14		
COMPACTION EFFORTS: Contractor sheeps foot made a minim	um of four passes to bring material to passing	
compaction. Smooth drum created testing pads.		
OPERATIONAL CONCERNS & SOLUTIONS:		
Rain expected in the evening, dozers sealed open material to pr	revent infiltration.	
Note: Copies of all completed "Project Field Record Forms" are to be su	Ibmitted to the Project Manager at the end	
of each day and should be maintained with the Project Records.	assisted to the reject manager at the end	



Daily Project Construction Summary	25809 Interstate 30 South	
Project No: <u>35177127</u> Date of Report: 4/30/2018	Bryant, AR 72022 (501) 847-9292	
Client Name: American Electric Power	WEATHER:	
Contractor: SFC	x Clear Cold	
Project Name: Turk Cell 2	Cloudy Cool	
Location: Fulton, AR	x Partly Cloudy x Warm	
Representative: Greg Witte	Raining Hot	
Technician: Matt Acree	Windy <u>74°F</u> Low Temp. (°F)	
Test Location: Cell 2	Foggy / Misty 81°F High Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 10:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade	
Arrive Site: 12:00 PM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	1 Client Liner Crew	
2 Excavator(s) Skidsteer	13 Contractor Liner Installer	
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew	
2 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer	
<u> </u>	<u> </u>	
Observe placement of structural fill and perform density tests.		
SUMMARY OF ACTIVITIES OBSERVED:		
contractor baulors	or north bern pipe and loaded it litto	
Contractor haulers transported material to south berm.		
<u>Contractor dozers graded cell floor and spread structural fill material on south berm.</u>		
Contractor motor grader followed baulers to keep rutting minimized		
Contractor water truck wet deteriorated material to bring back to optimum.		
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: Completed lift 14 and began work on lift 15.		
COMPACTION EFFORTS: Contractor sheeps foot made a minim	num of four passes to bring material to passing	
compaction. Smooth drum created testing pads.		
OPERATIONAL CONCERNS & SOLUTIONS:		
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end	



Daily Project Construction Summary	25809 Interstate 30 South	
Project No: 35177127 Date of Report: 5/1/2018	Bryant, AR /2022 (501) 847-9292	
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: x Clear Cold x Cloudy x Cool x Partly Cloudy x Warm Raining Hot Windy 64°F Low Temp. (°F) Foggy / Misty 80°F High Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab:6:15 AMDepart Site:5:15 PMArrive Site:6:30 AMArrive Lab:5:45 PM	X Moisture/Density Subgrade Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans 2 Excavator(s) 1 Skidsteer Backhoe(s) 1 Water Truck 2 Haul Truck(s) 1 Sheeps Foot Compactor 1 Motor Grader(s) 1 Smooth Drum Compactor	1ClientLiner Crew13ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.	
QA/QC EXPECTATIONS:		
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor excavators cut structural fill material from location of contractor haulers.</u> <u>Contractor haulers transported material to south berm.</u>	of north berm pipe and loaded it into	
Contractor dozers graded cell floor and spread structural fill material on south berm.		
Contractor motor grader followed haulers to keep rutting minir	mized.	
Contractor water truck wet deteriorated material to bring back to optimum.		
LIFTS: Completed lift 15, 23, and began work on lift 24.		
COMPACTION EFFORTS: Contractor sheeps foot made a minim compaction. Smooth drum created testing pads.	um of four passes to bring material to passing	
OPERATIONAL CONCERNS & SOLUTIONS:		
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end	



Daily Project Construction Summary	25809 Interstate 30 South		
Project No: <u>35177127</u>	Bryant, AR 72022 (501) 847-9292		
Date of Report: 5/2/2018			
Client Name: American Electric Power	WEATHER:		
Contractor: SFC			
Project Name: TURK Cell 2			
Location: Fulton, AR	X Partly Cloudy X Warm		
Representative: Greg Witte			
Technician: IVIAIT Acree	Windy <u>69°F</u> Low Temp. (°F)		
	BOF High Temp. (F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade		
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
3 Dozer(s) Tractor & Pans	1 Client Liner Crew		
2 Excavator(s) 1 Skidsteer	13 Contractor Liner Installer		
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew		
2 Haul Truck(s) 1 Sheeps Foot Compactor	1 Design Engineer Pipe Installer		
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.		
QA/QC EXPECTATIONS:			
Observe placement of structural fill material and perform densi	ty tests		
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor excavators cut structural fill material from location of north berm pipe and loaded it into			
contractor haulers. They also loaded graded material from cell floor to be used as structural fill.			
Contractor haulers transported material to south and west berms.			
Contractor dozers graded cell floor and spread structural fill material on south and west berms.			
Contractor motor grader followed haulers to keep rutting minimized.			
<u>Contractor water truck wet detenorated material to bring back to optimum.</u>			
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS: Completed lift 24 and 25.			
COMPACTION EFFORTS: Contractor sheeps foot made a minim	um of four passes to bring material to passing		
compaction. Smooth drum created testing pads.			
OPERATIONAL CONCERNS & SOLUTIONS:			
Found perched water between two layers of clay in north berm	where leachate pipe will be installed. Letting		
drain and then pumping from area.			
Note: Copies of all completed "Project Field Record Forms" are to be su	Ibmitted to the Project Manager at the end		
of each day and should be maintained with the Project Records.			



Daily Project Construction Summary	25809 Interstate 30 South Bryant AP 72022	
Project No: <u>35177127</u> Date of Report: 5/3/2018	(501) 847-9292	
Client Name: American Flectric Power	WFATHER:	
Contractor: SEC		
Droiget Names Turk Coll 2		
	A cloudy Court	
Location: Fullon, AR		
Representative: Greg Witte		
Technician: Matt Acree	Windy <u>69°F</u> Low Temp. (°F)	
Test Location: Cell 2	EXAMPLE Foggy / Misty <u>81°F</u> High Temp. (°F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 6:15 AM Depart Site: 4:30 PM	X Moisture/Density Subgrade	
Arrive Site: 6:30 AM Arrive Lab: 6:30 PM	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	1 Client Liner Crew	
2 Excavator(s) 1 Skidsteer	13 Contractor Liner Installer	
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew	
2 Haul Truck(s) 1 Sheeps Foot Compactor	1 Design Engineer Pipe Installer	
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.	
QA/QC EXPECTATIONS:		
Observe placement of structural fill material and perform dens	ity tests	
SUMMARY OF ACTIVITIES OBSERVED:		
<u>Contractor excavators cut structural fill material from outside c</u>	of cell 2, west of west berm and along east	
berm for tie in purposes.		
Contractor haulers transported material to west and north ber	<u>m.</u>	
Contractor dozers spread structural fill material on west and north herm		
Contractor motor grader followed haulers to keep rutting minimized.		
Contractor water truck wet deteriorated material to bring back to optimum.		
	-	
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: Completed lifts 24, 25, and 26.		
COMPACTION EFFORTS: Contractor sheeps foot made a minim	num of four passes to bring material to passing	
compaction. Smooth drum created testing pads.		
OPERATIONAL CONCERNS & SOLUTIONS:	filtration	
<u>Rain out. Used smooth drum to sear west berm and prevent inf</u>	IIIII aliUII.	



Daily Project Construction Summary	Daily	Project	Construction	Summary
------------------------------------	-------	---------	--------------	---------

25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292 Project No: 35177127 Date of Report: 5/7/2018 **Client Name:** American Electric Power WEATHER: SFC Clear Cold Contractor: х Turk Cell 2 Cloudy Cool Project Name: | x | Fulton, AR Partly Cloudy Location: x Warm Representative: Greg Witte Raining x Hot Matt Acree 57°F Low Temp. (°F) Technician: Windy Cell 2 Test Location: Foggy / Misty 93°F High Temp. (°F) **REPORTING TIMES:** FIELD TESTING PERFORMED: Subgrade Depart Lab: 5:15 AM Depart Site: 5:15 PM Moisture/Density 7:00 AM Shelby Tube(s) Arrive Site: Arrive Lab: 5:45 PM **Clay Liner** EQUIPMENT ONSITE: PERSONNEL ONSITE: Tractor & Pans 2 Client Liner Crew 3 Dozer(s) 13 Contractor Liner Installer 1 Excavator(s) Skidsteer 1 CQA Consultant Backhoe(s) 1 Water Truck Concrete Crew 2 Haul Truck(s) 1 Sheeps Foot Compactor **Design Engineer Pipe Installer** Gas Line Inst. 1 Motor Grader(s) 1 Smooth Drum Compactor 1 Surveyor QA/QC EXPECTATIONS: Observe placement of structural fill and clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut structural fill material from north pipe area and clay liner material from north cell floor. Then loaded material into contractor haulers. Contractor haulers transported structural fill material to east end of north berm and clay liner material to south-west cell floor. Contractor dozers graded and spread structural fill and clay liner material. Contractor sheeps foot scarified cell floor prior to placement of clay liner and compacted structural fill material. Contractor motor grader followed haulers to reduce rutting. Contractor water truck wet cell floor prior to placement of clay liner material. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Began first lift of clay liner in south-west corner of cell floor. COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing compaction. **OPERATIONAL CONCERNS & SOLUTIONS:**

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



lerracon
25809 Interstate 30 South
Bryant AD 72022

Project No: <u>35177127</u>	(501) 847-9292	
Date of Report: 5/8/2018		
	WEATHER.	
Project Name: Turk Cell 2		
Location: Fulton AP	Partly Cloudy X Warm	
Representative: Greg Witte		
Technician: Matt Acree	$\square Windy \qquad \qquad 63^{\circ} E \log Temp (^{\circ} E)$	
Test Location: Cell 2	$\Box = For a y / Mist y = \frac{0.3 + 2000 + 0.000}{91^{\circ} \text{F}} \text{ High Temp. (°F)}$	
	FIELD TESTING PERFORIVIED:	
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density X Subgrade	
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
3 Dozer(s) Tractor & Pans	2 Client Liner Crew	
1 Excavator(s) Skidsteer	13 Contractor Liner Installer	
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew	
2 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer	
1 Motor Grader(s) 1 Smooth Drum Compactor	<u>1</u> Surveyor Gas Line Inst.	
QA/QC EXPECTATIONS:		
Observe placement of clay liner and to perform density tests.		
SUMMARY OF ACTIVITIES OBSERVED:		
Contractor excavator cut clay liner material from north cell floor and borrow area then loaded material into		
contractor haulers.		
Contractor haulers transported clay liner material to south-west cell floor.		
Contractor dozers graded and spread clay liner material		
<u>Contractor dozers graded and spread clay intermaterial.</u>		
Contractor sheeps foot scarified prior to placement of clay liner and compacted clay liner.		
Contractor motor grader followed haulers to reduce rutting.		
Contractor water truck wet cell floor prior to placement of clay liner material and after placement to prevent		
LIFTS WORKED AND COMPACTION EFFORTS:		
LIFTS: Finished first lift of clay liner in south-west corner of cell floor and began second lift.		
LIFTS: Finished first lift of clay liner in south-west corner of cell fi	3	
LIFTS: Finished first lift of clay liner in south-west corner of cell fi	Im of four passes to bring material to passing	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	im of four passes to bring material to passing	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	im of four passes to bring material to passing	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	Im of four passes to bring material to passing	
LIFTS: Finished first lift of clay liner in south-west corner of cell fill COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS: Wind and high temperatures require supervision of clay liner made	im of four passes to bring material to passing aterial to prevent dessication. Multiple	
LIFTS: Finished first lift of clay liner in south-west corner of cell file COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS: Wind and high temperatures require supervision of clay liner ma waterings and sealing with smooth roller to reduce surface area	um of four passes to bring material to passing aterial to prevent dessication. Multiple occurred to solve issue.	



Daily	/ Pro	ject	Construction	Summary
-------	-------	------	--------------	----------------

- 11	prracon
	25809 Interstate 30 South
	Bryant AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Client Name: American Electric Power	WFATHER
Contractor: SEC	
Project Name Turk Cell 2	
Location: Fulton AR	x Partly Cloudy x Warm
Representative: Greg Witte	
Technician: Matt Acree	\square Windy 70° F low Temp (°F)
Test Location: Cell 2	$1 \longrightarrow 10^{\circ}$ For a second sec
	FIELD TESTING PERFORIVIED.
Depart Lab: 6:15 AIVI Depart Site: 5:15 PIVI	Moisture/Density X subgrade
Arrive Site: 6:30 AIVI Arrive Lab: 5:45 PIVI	X Shelby Tube(s) X Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
1 Excavator(s) Skidsteer	13 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
2 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	<u>1</u> Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area th	hen loaded material into contractor haulers.
Contractor haulers transported clay liner material to south-west	t cell floor.
Contractor dezers graded and spread alow liner meterial	
<u>contractor dozers graded and spread cray inter material.</u>	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.
Contractor motor grader followed haulers to reduce rutting.	
Contractor water truck wet cell floor prior to placement of clay	liner material and after placement to prevent
dessication	
LIFTS: Einished first lift of clay liner in south-west corner of cell f	floor and began second lift
En 13. Thisned hist int of day inter in south-west corner of cent	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	um of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	atorial to provent dessignation. Multiple
waterings and scaling with smooth roller to reduce surface area	atenar to prevent dessidation. Multiple
waterings and searing with smooth roller to reduce surface area	
Note: Conjos of all completed "Droject Field Decord Forme" are to be su	hmitted to the Droject Manager at the end
of each day and should be maintained with the Project Records.	



Daily Pro	ject Constructi	ion Summary
------------------	-----------------	-------------

Terra	acon
25809 Inter	state 30 South
Bry	vant AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Client Name: American Electric Power	WEATHED.
Droject Name: Turk Coll 2	
Fillen AD	Cloudy Couldy Couldy Warm
Location: Fullon, AR	
	$ \begin{array}{c} \hline \\ \hline $
lest Location: <u>Cell 2</u>	$\underbrace{ 1 \text{ Foggy / Misty} 91^{\circ}\text{F High Temp. (°F)}}_{\text{Foggy / Misty}}$
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 6:45 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	_2_ClientLiner Crew
1 Excavator(s) Skidsteer	13 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area the	en loaded material into contractor haulers.
Contractor haulers transported clay liner material to south-west	cell floor.
Contractor dozers graded and spread clay liner material.	
Contractor sheeps foot scarified prior to placement of clay liner a	and compacted clay liner.
Contractor water truck wet cell floor prior to placement of clay li	iner material and after placement to prevent
dessication.	
Work around cleanup pipe began. Contractor excavator removed	d surrounding material so that it could be
shortened. Fusion welded the cap onto it. Placed bentonite libera	ally below concrete cap. Mixed concrete and
placed it on top of pipe.	, ,
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Finished second lift of clay liner in south-west corner of ce	Il floor and began third lift.
COMPACTION EEEOPTS: Contractor shoops foot made a minimu	m of four passas to bring material to passing
compaction.	in or rour passes to bring material to passing
OPERATIONAL CONCERNS & SOLUTIONS:	
Wind and high temperatures require supervision of clay liner ma	terial to prevent dessication. Multiple
waterings occurred to solve issue.	
Note: Copies of all completed "Project Field Record Forms" are to be sub	mitted to the Project Manager at the end
of each day and should be maintained with the Project Records.	·



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u> Date of Report: 5/14/2018	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	x Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy <u>85°F</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>91°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 9:30 AM Depart Site: 5:00 PM	X Moisture/Density Subgrade
Arrive Site: 11:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
2 Excavator(s) Skidsteer	11ContractorLiner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) <u>1</u> Smooth Drum Compactor	Gas Line Inst.
Observe placement of clay liner and to perform density tests	
observe placement of eldy liner and to perform density tests.	
Solviviant of Activities Observed.	then leaded material into contractor baulors
	then loaded material into contractor hadiers.
Contractor haulers transported clay liner material to south-wes	st cell floor.
Contractor dozers graded and spread clay liner material.	
Contractor sheeps foot scarified prior to placement of clay line	r and compacted clay liner.
Contractor water truck wet cell floor prior to placement of clay	liner material and after placement to prevent
dessication.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Continued working on lift 3.	
COMPACTION EFFORTS: Contractor sheeps foot made a minim	um of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Wind and high temperatures require supervision of clay liner m	naterial to prevent dessication. Multiple
waterings occurred to solve issue.	
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end



	Daily Project	Construction	Summary
--	---------------	--------------	---------

llerracon [_]
25809 Interstate 30 South
Brvant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Client Name: American Electric Power	
Contractor: SEC	
Droject Name: Turk Coll 2	
Location: Fulton AD	Partly Cloudy Varm
Location: Fution, AR	
Technician: Iviali Acree	Vindy 70 F Low Temp. (F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:00 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 7:15 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
2 Excavator(s) Skidsteer	11 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from outside cell 2 th	hen loaded material into contractor haulers.
Contractor haulers transported clay liner material to south-west	<u>cell floor.</u>
Contractor descent model and approad alow lines restarial	
<u>contractor dozers graded and spread clay liner material.</u>	
Contractor sheeps foot scarified prior to placement of clay liner a	and compacted clay liner.
Contractor water truck wet cell floor prior to placement of clay li	iner material and after placement to prevent
dessication.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed lift 3 and began placing lift 4.	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	torial to provent dessignation Multiple
wind and high temperatures require supervision of clay liner ma	tenal to prevent dessication. Multiple
inote: copies of all completed "Project Field Record Forms" are to be sub	imitted to the Project Manager at the end



Daily Project Construction Summary	Daily	Project	Construction	Summary
------------------------------------	-------	---------	--------------	---------

25809 Interstate 30 South Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Client Name: American Floctric Dowor	WEATHED.
	WEATHER:
Contractor: SFC	
Project Name: Turk Cell 2	
Location: Fullon, AR	X Partiy Cloudy X Warm
Representative: Greg Witte	
lechnician: Matt Acree	$ \qquad \qquad$
Test Location: Cell 2	$- \frac{92^{\circ}F}{100} \text{ High Temp. (°F)}$
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 4:45 AM Depart Site: 5:00 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	2 Client Liner Crew
1 Excavator(s) Skidsteer	11 Contractor
Backhoe(s) 1 Water Truck	1 COA Consultant Concrete Crew
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst
OA/OC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests	
SUMMARY OF ACTIVITIES OBSERVED:	an landad matarial into an tractor baulan
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th	nen loaded material into contractor haulers.
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor excavator cut clay liner material from borrow area th</u> <u>Contractor haulers transported clay liner material to south-west</u>	nen loaded material into contractor haulers.
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor excavator cut clay liner material from borrow area th</u> <u>Contractor haulers transported clay liner material to south-west</u>	nen loaded material into contractor haulers. cell floor.
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor excavator cut clay liner material from borrow area th</u> <u>Contractor haulers transported clay liner material to south-west</u> <u>Contractor dozers graded and spread clay liner material.</u>	nen loaded material into contractor haulers. cell floor.
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor excavator cut clay liner material from borrow area th</u> <u>Contractor haulers transported clay liner material to south-west</u> <u>Contractor dozers graded and spread clay liner material.</u>	nen loaded material into contractor haulers.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner	nen loaded material into contractor haulers.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner	nen loaded material into contractor haulers.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay liner	nen loaded material into contractor haulers. cell floor. and compacted clay liner. iner material and after placement to prevent
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay I dessication.	and compacted clay liner.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay I dessication.	and compacted clay liner.
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor excavator cut clay liner material from borrow area th</u> <u>Contractor haulers transported clay liner material to south-west</u> <u>Contractor dozers graded and spread clay liner material.</u> <u>Contractor sheeps foot scarified prior to placement of clay liner</u> <u>Contractor water truck wet cell floor prior to placement of clay l</u> <u>dessication.</u>	and compacted clay liner.
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor excavator cut clay liner material from borrow area th</u> <u>Contractor haulers transported clay liner material to south-west</u> <u>Contractor dozers graded and spread clay liner material.</u> <u>Contractor sheeps foot scarified prior to placement of clay liner</u> <u>Contractor water truck wet cell floor prior to placement of clay liner</u> <u>Contractor water truck wet cell floor prior to placement of clay liner</u> <u>LIFTS WORKED AND COMPACTION EFFORTS:</u> <u>LIFTS: Completed lift 4 and began placing a layer of cover material</u>	and compacted clay liner.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay liner Contractor. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 4 and began placing a layer of cover material	and compacted clay liner. iner material and after placement to prevent ial to prevent dessication.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay l dessication. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 4 and began placing a layer of cover material COMPACTION EFFORTS:	and compacted clay liner. iner material and after placement to prevent ial to prevent dessication.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay liner Contractor. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 4 and began placing a layer of cover material COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	and compacted clay liner. iner material and after placement to prevent ial to prevent dessication. im of four passes to bring material to passing
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor dozers graded and spread clay liner material. Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay l LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 4 and began placing a layer of cover material COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	and compacted clay liner. iner material and after placement to prevent ial to prevent dessication. im of four passes to bring material to passing
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay I dessication. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 4 and began placing a layer of cover material COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS:	and compacted clay liner. iner material and after placement to prevent ial to prevent dessication. im of four passes to bring material to passing
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay l dessication. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 4 and began placing a layer of cover materi COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS: Wind and high temperatures require supervision of clay liner material	and compacted clay liner. and compacted clay liner. liner material and after placement to prevent ial to prevent dessication. Im of four passes to bring material to passing aterial to prevent dessication. Multiple
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area the Contractor haulers transported clay liner material to south-west Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay liner Contractor water truck wet cell floor prior to placement of clay liner Contractor. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 4 and began placing a layer of cover material COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS: Wind and high temperatures require supervision of clay liner material waterings occurred to solve issue.	and compacted clay liner. and compacted clay liner. iner material and after placement to prevent ial to prevent dessication. Im of four passes to bring material to passing aterial to prevent dessication. Multiple



Daily	/ Pro	ject	Construction	Summary
-------	-------	------	--------------	----------------

25,900	CLU
20809 1	Revent AD 72022

Project No: <u>35177127</u>	(501) 847-9292			
Date of Report: 5/1//2018 Client Name: Amorican Electric Power				
	WEATHER.			
Contractor: SFC				
Location: Fulton, AR				
Representative: Greg Witte	Raining X Hot			
Technician: Matt Acree	Windy <u>63°F</u> Low Temp. (°F)			
Test Location: Cell 2	Foggy / Misty <u>92°F</u> High Temp. (°F)			
REPORTING TIMES:	FIELD TESTING PERFORMED:			
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density X Subgrade			
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner			
EQUIPMENT ONSITE:	PERSONNEL ONSITE:			
2 Dozer(s) Tractor & Pans	2 Client Liner Crew			
1 Excavator(s) Skidsteer	11 Contractor Liner Installer			
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew			
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer			
Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst			
QA/QC EXPECTATIONS:				
Observe placement of clay liner and to perform density tests.				
Contractor excavator cut clay liner material from borrow area t	then loaded material into contractor baulers			
Contractor haulers transported clay liner material to south-wes	st cell floor and began to transport to south-			
east corner.				
Contractor dozers graded and spread clay liner material.				
Contractor shoops foot scarified prior to placement of slow liner and compacted slow liner				
contractor sneeps root scarmed prior to placement of clay liner and compacted clay liner.				
Contractor water truck wet cell floor prior to placement of clay liner material and after placement to prevent				
dessication.				
LIFTS WORKED AND COMPACTION EFFORTS:				
LIFTS: Completed cover lift on sw half of cell floor and began pl	lacement in se corner.			
COMPACTION EFFORTS: Contractor sheeps foot made a minim	num of four passes to bring material to passing			
compaction.	· · · · · ·			
OPERATIONAL CONCERNS & SOLUTIONS:				
Wind and high temperatures require supervision of clay liner material to prevent dessication. Multiple				
waterings occurred to solve issue.				
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end			
or each day and should be maintained with the Project Records.				



Dail	/ Pro	ject	Construction	Summary
------	-------	------	--------------	---------

Ferracon
25809 Interstate 30 South
Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292				
Date of Report: 5/18/2018					
Contractor: SFC					
Project Name: Iurk Cell 2					
Location: Fulton, AR	x Partly Cloudy x Warm				
Representative: Greg Witte	Raining X Hot				
Technician: Matt Acree	Windy <u>67°F</u> Low Temp. (°F)				
Test Location: Cell 2	Foggy / Misty <u>92°F</u> High Temp. (°F)				
REPORTING TIMES:	FIELD TESTING PERFORMED:				
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade				
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner				
EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
2 Dozer(s) Tractor & Pans	2 Client Liner Crew				
1 Excavator(s) Skidsteer	11 Contractor Liner Installer				
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew				
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer				
Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.				
QA/QC EXPECTATIONS:					
Observe placement of clay liner and to perform density tests.					
Contractor excavator cut clay liner material from borrow area th	en loaded material into contractor haulers				
Contractor haulers transported clay liner material to south-east	corner of cell floor.				
Contractor dozers graded and spread clay liner material.	Contractor dozers graded and spread clay liner material.				
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.				
Contractor water truck wat call floor prior to placement of alou	incr material and ofter placement to provent				
Contractor water truck wet cell floor prior to placement of clay liner material and after placement to prevent					
LIFTS WORKED AND COMPACTION EFFORTS:					
LIETS: Continued placing material in lift 1 in se corner					
COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing					
compaction.					
OPERATIONAL CONCERNS & SOLUTIONS:					
Wind and high temperatures require supervision of clay liner material to prevent dessication. Multiple					
waterings occurred to solve issue.					
Note: Conjes of all completed "Project Field Pecord Forms" are to be sur	mitted to the Project Manager at the end				



Daily P	Project	Construction	Summary
----------------	---------	--------------	---------

-
orcon
CICLUI
25809 Interstate 30 South
Bryant AP 72022

Project No: <u>35177127</u>	(501) 847-9292				
Client Name: American Electric Power	WEATHER				
Contractor: SEC					
Project Name: Turk Cell 2					
Location: Fulton AR	Partly Cloudy Warm				
Representative: Greg Witte					
Technician: Matt Acree	$\square Windy \qquad 67^{\circ} F Low Temp (^{\circ} F)$				
Test Location: Cell 2	$\frac{377}{92^{\circ}F}$ High Temp. (°F)				
	FIELD TESTING FERFORIVIED.				
Depart Lab: 6:15 AIVI Depart Site: 5:15 PIVI	Moisture/Density Subgrade				
Arrive Site: 6:30 AIVI Arrive Lab: 5:45 PIVI	Shelby Tube(s) X Clay Liner				
EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
2 Dozer(s) Tractor & Pans	2 Client Liner Crew				
1 Excavator(s) Skidsteer	11 Contractor Liner Installer				
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew				
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer				
Motor Grader(s) Smooth Drum Compactor	Gas Line Inst.				
Observe placement of clay liner and to perform density tests					
observe placement of clay liner and to perform density tests.					
Contractor ovcavator cut clay linor material from borrow area th	on loaded material into contractor haulers				
<u>Contractor excavator cut clay liner material from borrow area then loaded material into contractor naulers.</u>					
Contractor haulers transported clay liner material to south-east	corner of cell floor.				
Contractor dozers graded and spread clay liner material.					
Contractor sneeps foot scarified prior to placement of clay liner	and compacted clay liner.				
Contractor water truck wet cell floor prior to placement of clave	liner material and after placement to prevent				
dessication					
LIFTS WORKED AND COMPACTION EFFORTS:					
LIFTS: Completed lift 1 and began lift 2 in se corner of cell floor.					
COMPACTION FEFORTS, Contractor choose fact mode a minimum of four respect to bring motorial to respire					
compaction					
OPERATIONAL CONCERNS & SOLUTIONS:					
Wind and high temperatures require supervision of clay liner material to prevent dessication. Multiple					
waterings occurred to solve issue.					
l					
Note: Conjos of all completed "Project Field Pecord Forms" are to be suit	hmitted to the Project Manager at the end				


Daily Project Construction Summary	25809 Interstate 30 South					
Project No: <u>35177127</u> Date of Report: <u>5/20/2018</u>	(501) 847-9292					
Client Name: American Electric Power	WEATHER					
Contractor: SEC						
Draiget Name: Turk Coll 2						
Location: Fullon, AR						
Technician: Matt Acree	$ \qquad \qquad$					
Test Location: Cell 2	Foggy / Misty <u>99°F</u> High Temp. (°F)					
REPORTING TIMES:	FIELD TESTING PERFORMED:					
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade					
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	xShelby Tube(s)xClay Liner					
EQUIPMENT ONSITE:	PERSONNEL ONSITE:					
3 Dozer(s) Tractor & Pans	2 Client Liner Crew					
1 Excavator(s) Skidsteer	11 Contractor Liner Installer					
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew					
3 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer					
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst					
Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area then loaded material into contractor haulers.						
Contractor haulers transported clay liner material to south-east	corner of cell floor.					
Contractor dozers graded and spread clay liner material.						
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.					
Contractor water truck wet cell floor prior to placement of clay l dessication.	iner material and after placement to prevent					
LIFTS WORKED AND COMPACTION EFFORTS:						
LIFTS: Completed lift 2 and began placing lift 3.						
COMPACTION FEFORTS: Contractor sheeps foot made a minimu	Im of four passes to bring material to passing					
compaction.						
OPERATIONAL CONCERNS & SOLUTIONS:						
Wind and high temperatures require supervision of clay liner ma	aterial to prevent dessication. Multiple					
waterings occurred to solve issue.						
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end					



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022					
Project No: <u>35177127</u> Date of Report: <u>5/21/2018</u>	(501) 847-9292					
Client Name: American Electric Power	WEATHER:					
Contractor: SFC	Clear Cold					
Project Name: Turk Cell 2	X Cloudy Cool					
Location: Fulton, AR	X Partly Cloudy X Warm					
Representative: Greg Witte	Raining X Hot					
Technician: Matt Acree	Windy 81°F Low Temp. (°F)					
Test Location: Cell 2	Foggy / Misty 94°F High Temp. (°F)					
REPORTING TIMES:	FIELD TESTING PERFORMED:					
Depart Lab: 10:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade					
Arrive Site: 10:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner					
	PERSONNEL ONSITE:					
2 Dozer(s) Tractor & Pans	2 Client Liner Crew					
1 Excavator(s) Skidsteer	11 Contractor Liner Installer					
Backhoe(s) 1 Water Truck	1 COA Consultant Concrete Crew					
3 Haul Truck(s) 1 Sheens Foot Compactor	Design Engineer Pipe Installer					
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.					
OA/OC EXPECTATIONS:						
Observe placement of clay liner and to perform density tests						
SUMMARY OF ACTIVITIES OBSERVED:						
<u>Contractor excavator cut clay liner material from borrow area t</u>	then loaded material into contractor haulers.					
Contractor boulars transported alow liner material to south eas	t corpor of coll floor					
Contractor hadiers transported clay liner material to south-eas						
Contractor dozors gradod and sproad clay linor matorial						
Contractor dozers graded and spread day inter material.						
Contractor sheeps foot scarified prior to placement of clay line	r and compacted clay liner.					
Contractor water truck wet cell floor prior to placement of clay	liner material and after placement to prevent					
dessication.						
LIFTS WORKED AND COMPACTION EFFORTS:						
LIFTS: Continued placing lift 3 in se corner.						
COMPACTION EFFORTS: Contractor sheeps foot made a minim	um of four passes to bring material to passing					
compaction.						
OPERATIONAL CONCERNS & SOLUTIONS:	a due to wet read conditions. Dreamers					
Rain the previous hight, waited until 11:00 AM to begin hauling	y due to wet road conditions. Progress was					
slowed due to slower driving speeds and lighter loads.						

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South
	Bryant, AR 72022
Date of Report: 5/22/2018	(301) 047-7272
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear
Project Name: Turk Cell 2	
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy 75°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 89°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	2 Client Liner Crew
1 Excavator(s) Skidsteer	12 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clav liner material from borrow area t	then loaded material into contractor haulers.
	······
Contractor haulers transported clay liner material to south-eas	t corner of cell floor.
Contractor dozers graded and spread clay liner material.	
Contractor sheeps foot scarified prior to placement of clay line	r and compacted clay liner.
Contractor water truck wet cell floor prior to placement of clay	/ liner material and after placement to prevent
LIETS WORKED AND COMPACTION FEFORTS	
LIFTS: Completed lift 3 and began placing lift 4.	
COMPACTION EFFORTS: Contractor sheeps foot made a minim	num of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Wind and high temperatures require supervision of clay liner m	naterial to prevent dessication. Multiple
waterings occurred to solve issue.	
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end
of each day and should be maintained with the Project Records.	

of each day and should be maintained with the $\ensuremath{\mathsf{Project}}$ Records.



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022					
Project No: <u>35177127</u>	(501) 847-9292					
Date of Report: 5/28/2018						
Contractor: SFC						
Location: Fulton, AR	X Partiy cloudy Warm					
Representative: Greg Wille						
	Windy 80 F LOW Temp. (F)					
	<u> </u>					
REPORTING TIMES:	FIELD TESTING PERFORMED:					
Depart Lab: 9:30 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade					
Arrive Site: 11:30 AM Arrive Lab: 5:45 PM	xShelby Tube(s)xClay Liner					
1 Dozer(s) Tractor & Pans	1 Client Liner Crew					
1 Excavator(s) Skidsteer	11 Contractor					
Backhoe(s) 1 Water Truck	1 COA Consultant Concrete Crew					
2 Haul Truck(s) 1 Sheens Foot Compactor	Design Engineer Pipe Installer					
Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst					
ΟΑ/ΟΩ ΕΧΡΕΩΤΑΤΙΟΝΙS						
Observe placement of clay liner and to perform density tests.						
SUMMARY OF ACTIVITIES OBSERVED:						
Contractor excavator cut clay liner material from borrow area th	ien loaded material into contractor haulers.					
Contractor haulers transported clay liner material to south-east	corner of cell floor.					
,						
Contractor dozers graded and spread clay liner material.						
Contractor choose foot coarified prior to placement of alou liner	and compacted alou liner					
contractor sheeps root scarmed prior to placement of clay liner a	and compacted clay liner.					
Contractor water truck wet placed material prior to placement o	f clay liner material and after placement to					
prevent dessication.						
LIFTS WORKED AND COMPACTION EFFORTS:						
LIFTS: Completed lift 4 and began cover lift						
COMPACTION FEFORTS: Contractor sheeps foot made a minimu	m of four passes to bring material to passing					
compaction	in or rour passes to bring material to passing					
OPERATIONAL CONCERNS & SOLUTIONS:						
After a weekend of no work, reconditioning of material was need	essary. Water was added, compaction efforts					
were made by sheeps foot compactor.						
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end					



Daily Project Construction Summary

llorracon
25809 Interstate 30 South
Bryant AR 72022

Date of Report: 5/29/2018 Client Name: American Electric Power WEATHER: Contractor: SFC X Clear Cold Project Name: Turk Cell 2 Cool X Cloudy Cool Location: Fulton, AR Partly Cloudy X Warm Representative: Greg Witte Raining X Hot Technician: Matt Acree Windy 69°F Low Temp. (°F) Foggy / Misty 92°F High Temp. (°F)						
Cheft Name: Affeit Call Electric Powel WEATHER: Contractor: SFC Image: Cold Project Name: Turk Cell 2 Image: Cold Location: Fulton, AR Image: Cold Representative: Greg Witte Image: Raining Image: X Technician: Matt Acree Image: WEATHER: Image: Cold Test Location: Cell 2 Image: Cold Image: Cold						
Contractor: SFC Cold Project Name: Turk Cell 2 Cloudy Cool Location: Fulton, AR X Partly Cloudy X Representative: Greg Witte Raining X Hot Technician: Matt Acree Windy 69°F Low Temp. (°F) Test Location: Cell 2 Foggy / Misty 92°F High Temp. (°F)						
Project Name: Turk Cell 2 Cool Location: Fulton, AR X Partly Cloudy X Warm Representative: Greg Witte Raining X Hot Technician: Matt Acree Windy 69°F Low Temp. (°F) Test Location: Cell 2 Foggy / Misty 92°F High Temp. (°F)						
Location: Fulton, AR Representative: Greg Witte Technician: Matt Acree Test Location: Cell 2						
Representative: Greg write IX Hot Technician: Matt Acree IV Windy 69°F Low Temp. (°F) Test Location: Cell 2 Foggy / Misty 92°F High Temp. (°F)						
Technician: Matt Acree 69 F Low Temp. (F) Test Location: Cell 2 Foggy / Misty 92°F High Temp. (°F)						
Test Location: Cell 2 Foggy / Wisty <u>92 F</u> High Temp. (*F)						
REPORTING TIMES: FIELD TESTING PERFORMED:						
Depart Lab: 6:15 AM Depart Site: 5:15 PM Subgrade Subgrade						
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM x Shelby Tube(s) x Clay Liner						
EQUIPMENT ONSITE: PERSONNEL ONSITE:						
2 Dozer(s) Tractor & Pans 1 Client Liner Crew						
1 Excavator(s) Skidsteer 13 Contractor Liner Installer						
Backhoe(s) 1 Water Truck 1 CQA Consultant Concrete Crew						
2 Haul Truck(s) 1 Sheeps Foot Compactor Design Engineer Pipe Installer						
Motor Grader(s) 1 Smooth Drum Compactor 1 Surveyor Gas Line Inst.						
QA/QC EXPECTATIONS:						
Observe placement of clay liner and to perform density tests.						
SUMMARY OF ACTIVITIES OBSERVED:						
Contractor excavator cut clay liner material from borrow area then loaded material into contractor haulers.						
Contractor haulers transported clay liner material to south-east corner of cell floor.						
Contractor degree graded and approad alou liner material						
<u>contractor dozers graded and spread clay inter material.</u>						
Contractor sheeps foot scarified prior to placement of clay liner and compacted clay liner.						
Contractor water truck wet placed material prior to placement of clay liner material and after placement to						
prevent dessication.						
LIFTS WORKED AND COMPACTION EFFORTS:						
LIFTS: Continued working on cover lift.						
COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing						
compaction.						
OPERATIONAL CONCERNS & SOLUTIONS:						
Due to heat and breeze, clay liner requires intermittent water to prevent dessication.						
note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.						



Daily	/ Pro	ject	Construction	Summary
-------	-------	------	--------------	----------------

erracon
25809 Interstate 30 South
Brvant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292				
Date of Report: 5/30/2018					
Client Name: American Electric Power	WEATHER:				
Contractor: SFC	Clear Cold				
Project Name: Turk Cell 2	Cloudy Cool				
Location: Fulton, AR	x Partly Cloudy x Warm				
Representative: Greg Witte	Raining X Hot				
Technician: Matt Acree	Windy <u>75°F</u> Low Temp. (°F)				
Test Location: Cell 2	Foggy / Misty 94°F High Temp. (°F)				
REPORTING TIMES:	FIELD TESTING PERFORMED:				
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density X Subgrade				
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner				
EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
2 Dozer(s) Tractor & Pans	1 Client Liner Crew				
2 Excavator(s) Skidsteer	13 Contractor				
Backboe(s) 1 Water Truck	1 COA Consultant Concrete Crew				
2 Haul Truck(s) 1 Shoops Foot Compactor	Dosign Engineer Pipe Installer				
<u>-</u> Hadi Huck(s) <u>-</u> Sheeps Foot compactor	Design Engineer Fipe Installer				
QA/QC EXPECTATIONS:					
Observe placement of clay liner and to perform density tests.					
Contractor evenuator cut clay liner material from borrow area th	on loaded material into contractor baulors				
<u>Contractor haulers transported clay liner material to south-east a</u>	and north-east corner of cell floor.				
Contractor dozers graded and spread clay liner material.					
Contractor shoops foot scarified prior to placement of clay liner a	and compacted clay liner				
<u>contractor sheeps root scarmed prior to placement of clay linera</u>	and compacted clay liner.				
Contractor water truck wet placed material prior to placement o	f clay liner material and after placement to				
prevent dessication.					
LIETS: Completed and cover lift, began placing first lift in parthering to	If of coll				
LIFTS: Completed cover lift, began placing first lift in northern ha					
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of four passes to bring material to passing				
compaction.					
OPERATIONAL CONCERNS & SOLUTIONS:					
Due to heat and preeze, clay liner requires intermittent water to prevent dessication.					
Note Control of all completed "Decided Field Decond Former" and to be each					
MATA' I ANIAC AT AII CAMANATAA "DEALAAT DAAAFA' AFAAA" AFA TE EE	mittad to the Droject Manager at the and				



Daily Proje	ect Constru	uction Sur	nmary				2 5809	Interstate 30 Sou
Project No: Date of Report:	<u>35177127</u> 5/31/2018							(501) 847-92
Client Name:	American Elec	tric Power		[WEA	ATHER:		
Contractor:	SFC				x	Clear		Cold
Project Name:	Turk Cell 2				x	Cloudy	Π	Cool
Location:	Fulton, AR				X	Partly Cloudy	X	Warm
Representative:	Greg Witte					Raining	x	Hot
Technician:	Matt Acree				x	Windy	76°I	F Low Temp. (°F
Test Location:	Cell 2					Foggy / Misty	93°	High Temp. (°F
REPORTING TIME	ES:				FIEL	D TESTING PERFORM	ЛED:	
Depart Lab:	6:15 AM	Depart Site:	5:15 PM		Х	Moisture/Density		Subgrade
Arrive Site:	6:30 AM	Arrive Lab:	5:45 PM		X	Shelby Tube(s)	Х	Clay Liner
EQUIPMENT ONS	ITE:				PER	SONNEL ONSITE:		
2 Dozer(s)		Tractor & Pans			2	Client		Liner Crew
2 Excavator(s	.)	Skidsteer			12	Contractor		Liner Installer
Backhoe(s)	1	Water Truck			1	CQA Consultant		Concrete Crew
3 Haul Truck(s) 2	Sheeps Foot Co	mpactor			Design Engineer		Pipe Installer
1 Motor Grad	ler(s) 1	Smooth Drum C	ompactor		1	Surveyor		Gas Line Inst.
QA/QC EXPECTA	TIONS:							
Observe placem	nent of clay line	r and to perfor	m density tests	<u>.</u>				
SUMMARY OF A	CTIVITIES OBSERV	/ED:						
Contractor exca	avator cut clay l	iner material fr	om borrow are	a the	en loa	ided material into	contr	actor haulers.
Contractors			aulal kath		16 a f			
contractor hau	iers transported	i ciay liner mat	erial to norther	<u>n na</u> l	IT OT C	<u>eii tioor.</u>		
Contractor doze	ers graded and	spread clay line	er material.					

25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292

76°F Low Temp. (°F) 93°F High Temp. (°F)

Contractor sheeps foot scarified prior to placement of clay liner and compacted clay liner.

Contractor water truck wet placed material prior to placement of clay liner material and after placement to prevent dessication.

LIFTS WORKED AND COMPACTION EFFORTS:

LIFTS: Completed first lift in northern half of cell and began placing the second.

COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing compaction.

OPERATIONAL CONCERNS & SOLUTIONS:

Due to heat and breeze, clay liner requires intermittent water to prevent dessication.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



25809 Interstate 30 South Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 6/1/2018	
	WEATHER:
Contractor: SFC	
Project Name: Turk Cell 2	
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	x Windy <u>76°F</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 92°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	2 Client Liner Crew
2 Excavator(s) Skidsteer	12 Contractor
Backbooks) 1 Water Truck	1 COA Consultant Concrete Crew
2 Haul Truck(s) 2 Shoops Foot Compactor	
<u>5</u> Haul Huck(s) <u>2</u> sheeps root compactor	
I Motor Grader(s) I smooth Drum Compactor	<u>Gas Line Inst.</u>
ΩΔ/ΩC ΕΧΡΕCΤΑΤΙΩΝS:	
Observe placement of clay liner and to perform density tests	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area the	en loaded material into contractor haulers.
Contractor baulers transported clay liner material to porthern ba	If of cell floor
Contractor dozers graded and spread clay liner material.	
Contractor sheeps foot scarified prior to placement of clay liner a	and compacted clay liner.
Contractor water truck wat placed material prior to placement of	f clay liner material and after placement to
prevent dessication	r day liner material and after platement to
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed second lift and began placing third.	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Due to heat and breeze, clay liner requires intermittent water to	prevent dessication.
Note: Conice of all completed "Project Field Decord Forme" are to be sub	mitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 6/2/2018 Client Name: American Electric Power	WEATHER
Contractor: SEC	
Project Name: Turk Cell 2	
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	xWindy76°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty $92^{\circ}F$ High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner
2 Dozor(s) Tractor & Pans	2 Client Liner Crew
2 Excavator(s) Skidsteer	12 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1SurveyorGas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area t	hen loaded material into contractor haulers.
Contractor boulars transported alow liner material to parthern b	add of coll floor
Contractor natiers transported day liner material to northern r	
Contractor dozers graded and spread clay liner material.	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.
Contractor water truck wet placed material prior to placement	of clay liner material and after placement to
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Continued placing third lift	
COMPACTION EFFORTS: Contractor sheeps foot made a minim	um of four passes to bring material to passing
compaction.	
Due to heat and breeze, clay liner requires intermittent water t	o prevent dessication.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	11611 25809 In	terstate 30 South		
Project No: 35177127 Date of Report: 6/3/2018		(501) 847-9292		
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt Acree/Tony BardellaTest Location:Cell 2	WEATHER: x Clear Cloudy 0 Partly Cloudy x Raining x x Windy 68°F I Foggy / Misty 92°F F	Cold Cool Warm Hot Low Temp. (°F) High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:			
Depart Lab:6:15 AMDepart Site:5:15 PMArrive Site:6:30 AMArrive Lab:5:45 PM	XMoisture/DensitySXShelby Tube(s)X	Subgrade Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:			
1Dozer(s)Tractor & Pans1Excavator(s)SkidsteerBackhoe(s)1Water Truck3Haul Truck(s)2Motor Grader(s)1Smooth Drum Compactor	1 Client I 11 Contractor I 2 CQA Consultant I Design Engineer F Surveyor I	Liner Crew Liner Installer Concrete Crew Pipe Installer Gas Line Inst.		
Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area then loaded material into contractor haulers.				
Contractor haulers transported clay liner material to northern ha	If of cell floor.			
Contractor dozers graded and spread clay liner material.				
Contractor sheeps foot scarified prior to placement of clay liner a	and compacted clay liner.			
Contractor water truck wet placed material prior to placement of clay liner material and after placement to prevent dessication.				
LIFTS WORKED AND COMPACTION EFFORTS:				
LIFTS: Completed third lift and began placing fourth.				
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	m of four passes to bring mate	rial to passing		
OPERATIONAL CONCERNS & SOLUTIONS:				
Due to heat and breeze, clay liner requires intermittent water to	prevent dessication.			
Note: Copies of all completed "Project Field Record Forms" are to be sub	mitted to the Project Manager at	the end		



Daily Project Construction Summary	25809 Interstate 30 South		
Project No: <u>35177127</u>	Bryant, AR 72022 (501) 847-9292		
Date of Report: 6/4/2018			
Client Name: American Electric Power	WEATHER:		
Contractor: SFC			
Project Name: Turk Cell 2			
Location: Fulton, AR	X Partly Cloudy X Warm		
Representative: Greg Witte	Raining X Hot		
Technician: Matt Acree	$\bigcup Windy \qquad \frac{67^{\circ}F}{2} Low Temp. (^{\circ}F)$		
Test Location: <u>Cell 2</u>	Foggy / Misty <u>87°F</u> High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 4:30 AM Depart Site: 5:00 PM	X Moisture/Density Subgrade		
Arrive Site: 6:30 AM Arrive Lab: 6:45 PM	x Shelby Tube(s) x Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
2 Dozer(s) Tractor & Pans	2 Client Liner Crew		
2 Excavator(s) Skidsteer	12 Contractor Liner Installer		
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew		
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer		
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.		
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area then loaded material into contractor haulers. Contractor haulers transported clay liner material to northern half of cell floor. Contractor dozers graded and spread clay liner material. Contractor sheeps foot scarified prior to placement of clay liner and compacted clay liner. Contractor water truck wet placed material prior to placement of clay liner material and after placement to			
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS: Completed fourth lift and began placing cover lift.	m of four passes to bring material to passing		
Due to heat and breeze, clay liner requires intermittent water to	prevent dessication.		
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end		



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 6/5/2018	(501) 847-9292
Client Name: American Electric Power	WEATHER
Contractor: SEC	
Project Name: Turk Cell 2	
	Derthy Cloudy Warm
Location: Fution, AR	
lechnician: Matt Acree	$\frac{67^{\circ}F}{1000}$ Low Temp. (*F)
Test Location: Cell 2	Foggy / Misty <u>89°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner
2 Dozer(s) Tractor & Pans	2 Client Liner Crew
2 Evenuator(s) Skidstoor	12 Contractor
Z Exclovator (s) Skiusteer	
Backhoe(s) <u>1</u> Water Truck	COncrete Crew
3 Haul Truck(s) 2 Sneeps Foot Compactor	Design Engineer Pipe Installer
I Motor Grader(s) I Smooth Drum Compactor	Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area th	hen loaded material into contractor haulers.
Contractor haulers transported clay liner material to northern h	alf of cell floor.
Contractor dozers graded and spread clay liner material	
ontractor dozers graded and spread day inter material.	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.
Contractor water truck wet placed material prior to placement of	of clay liner material and after placement to
prevent dessication.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Continued placing cover lift.	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	um of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Due to heat and breeze, clay liner requires intermittent water to	o prevent dessication.
Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u>	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	x Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy X Warm
Technician: Matt Acree	Raining X Hot Windy $70^{\circ}\text{E Low Temp}$ (°E)
Test Location: Cell 2	Foggy / Misty 91°F High Temp. (°F)
REPORTING TIMES:	FIFI D TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner
EOUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	2 Client Liner Crew
2 Excavator(s) Skidsteer	13 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
<u>3</u> Haul Truck(s) <u>2</u> Sheeps Foot Compactor	Design Engineer Pipe Installer
<u>1</u> Motor Grader(s) <u>1</u> Smooth Drum Compactor	<u>Gas Line Inst.</u>
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area th	nen loaded material into contractor haulers.
Contractor haulers transported clay liner material to northern h	alf of cell floor and south and southwest
<u>slopes.</u>	
Contractor dozers graded and spread clay liner material.	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.
Contractor water truck wet placed material prior to placement of	of clay liner material and after placement to
prevent dessication.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed cover lift, placed lifts one, two, and three on s	outh berm and began placing lift one on west
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	um of four passes to bring material to passing
compaction.	,
OPERATIONAL CONCERNS & SOLUTIONS	
Due to heat and breeze, clay liner requires intermittent water to	prevent dessication.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: <u>6/7/2018</u>	(501) 847-9292
Cheft Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	X Clear Cold Cloudy Cool Partly Cloudy X Raining X Windy 68°F Low Temp. (°F) Foggy / Misty 94°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:6:15 AMDepart Site:5:15 PMArrive Site:6:30 AMArrive Lab:5:45 PM	XMoisture/DensitySubgradeXShelby Tube(s)XClay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2Dozer(s)Tractor & Pans2Excavator(s)SkidsteerBackhoe(s)1Water Truck3Haul Truck(s)21Motor Grader(s)1Smooth Drum Compactor	2ClientLiner Crew13ContractorLiner Installer1CQA ConsultantConcrete Crew1Design EngineerPipe Installer1SurveyorGas Line Inst.
Observe placement of clay liner and to perform density tests.	
Contractor excavator cut clay liner material from borrow area th	nen loaded material into contractor haulers.
Contractor haulers transported clay liner material to south and	west berms.
Contractor dozers graded and spread clay liner material.	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.
Contractor water truck wet placed material prior to placement of prevent dessication.	of clay liner material and after placement to
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Placed lifts four and cover lift on south berm and complet	ted placing lift one on west berm.
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	um of four passes to bring material to passing
OPERATIONAL CONCERNS & SOLUTIONS: Due to beat and breeze, clay liner requires intermittent water to	o prevent dessication

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily	Proje	ect Con	struction	Summary	
Duny	1 10 30		30 4000	Gammary	

25809 Interstate 30 South Bryant, AR 72022

C

Project No: <u>35177127</u>	(501) 847-9292
Client Name American Flectric Power	WEATHER
Contractor: SEC	
Project Name Turk Cell 2	
Location: Fulton AR	Image: Second se
Representative: Greg Witte	
Technician: Matt Acree	\square Windy 68° F low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 93°F High Temp. (°F)
REFORTING TIMES.	FIELD TESTING PERFORMED.
Depart Lab: 6:15 AIVI Depart Site: 5:15 PIVI	Moisture/Density Subgrade
Arrive Site: 6:30 AIVI Arrive Lab: 5:45 PIVI	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	2 Client Liner Crew
2 Excavator(s) Skidsteer	<u>13</u> Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	<u>1</u> Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area the	en loaded material into contractor haulers.
<u>Contractor haulers transported clay liner material to west berm.</u>	
Contractor dozers graded and spread clay liner material.	
Contractor shoops foot scarified prior to placement of clay liner a	and compacted clay liner
	and compacted clay liner.
Contractor water truck wet placed material prior to placement o	f clay liner material and after placement to
prevent dessication.	a day inter material and after placement to
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed placing lift one and began placing lift two on w	vest berm.
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	provent dessignation
Due to near and breeze, clay liner requires intermittent water to	
Note: Conice of all complete d "Dreitert Field Descud Former" and the	weithed to the Droject Manager of the second



Daily Project Construction Summary	25809 Interstate 30 South		
Project No: <u>35177127</u> Date of Report: 6/9/2018	Bryant, AR 72022 (501) 847-9292		
Client Name: American Electric Power Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Matt Acree Test Location: Cell 2 REPORTING TIMES: Depart Site: 5:15 PM Depart Lab: 6:15 AM Depart Site: 5:15 PM Arrive Site: 6:30 AM Arrive Lab: 7:15 PM EQUIPMENT ONSITE:	WEATHER: Clear Cold X Cloudy Cool X Partly Cloudy X Warm Raining X Hot Windy 69°F Low Temp. (°F) Foggy / Misty 93°F High Temp. (°F) FIELD TESTING PERFORMED: X Moisture/Density X Subgrade X Shelby Tube(s) X Clay Liner PERSONNEL ONSITE: 2 2 Client 1 COA Consultant Concrete Crew Design Engineer Pipe Installer 1 1 Surveyor		
QA/QC EXPECTATIONS: Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area then loaded material into contractor haulers.			
<u>Contractor nauers transported clay liner material to west berm.</u> <u>Contractor dozers graded and spread clay liner material.</u>			
Contractor sheeps foot scarified prior to placement of clay liner and compacted clay liner.			
prevent dessication. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift three and began placing lift four.			
COMPACTION EFFORTS: Contractor sheeps foot made a minim compaction.	um of four passes to bring material to passing		
OPERATIONAL CONCERNS & SOLUTIONS: Due to heat and breeze, clay liner requires intermittent water t	o prevent dessication.		
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end		



Daily Project Construction Summary		
Project No:	35177127	

Depart Site:

Arrive Lab:

Tractor & Pans

2 Sheeps Foot Compactor

1 Smooth Drum Compactor

Skidsteer

1 Water Truck

American Electric Power

		Bryant, AR 72022 (501) 847-9292
	WEATHER:	
	Clear Cloudy Partly Cloudy Raining Windy Foggy / Misty	Cold Cool X Warm X Hot 73°F Low Temp. (°F) 91°F High Temp. (°F)
	FIELD TESTING PERFORM	1ED:
M M	X Moisture/Density X Shelby Tube(s)	Subgrade X Clay Liner
	PERSONNEL ONSITE:	
	1 Client 15 Contractor 1 CQA Consultant Design Engineer 1 Surveyor	Liner Crew Liner Installer Concrete Crew Pipe Installer Gas Line Inst.

25809 Interstate 30 South

QA/QC EXPECTATIONS:

Motor Grader(s)

Date of Report: 6/11/2018

Representative: Greg Witte

SFC

Turk Cell 2

Fulton, AR

Matt Acree

Cell 2

6:15 AM

6:30 AM

Client Name:

Project Name:

Contractor:

Location:

Technician:

Depart Lab:

Arrive Site:

1

Test Location:

REPORTING TIMES:

EQUIPMENT ONSITE:

Backhoe(s)

3 Haul Truck(s)

2 Dozer(s) 2 Excavator(s)

Observe placement of clay liner and to perform density tests.

SUMMARY OF ACTIVITIES OBSERVED:

Contractor excavator cut clay liner material from borrow area then loaded material into contractor haulers.

5:15 P

5:45 P

Contractor haulers transported clay liner material to west berm.

Contractor dozers graded and spread clay liner material.

Contractor sheeps foot scarified prior to placement of clay liner and compacted clay liner.

Contractor water truck wet placed material prior to placement of clay liner material and after placement to prevent dessication.

LIFTS WORKED AND COMPACTION EFFORTS:

LIFTS: Completed placing lift four and began placing cover lift.

COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing compaction.

OPERATIONAL CONCERNS & SOLUTIONS:

Due to heat and breeze, clay liner requires intermittent water to prevent dessication.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 6/12/2018	Bryant, AR 72022 (501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear Cold
Project Name: Turk Cell 2	X Cloudy Cool
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy 75°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 97°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	1 Client Liner Crew
2 Excavator(s) Skidsteer	15 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
4 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area then loaded material into contractor haulers.	
Contractor haulers transported clay liner material to west berm.	
Contractor dozers graded and spread clay liner material.	
Contractor sheeps foot scarified prior to placement of clay liner and compacted clay liner.	
Contractor water truck wet placed meterial prior to placement of alow liner meterial and after placement to	
provent descipation	or day liner material and after placement to
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed placing cover lift and moved north to begin placing lift one.	
COMPACTION FEFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing	
compaction.	iam or rour passes to bring material to passing
OPERATIONAL CONCERNS & SOLUTIONS:	
Due to heat and breeze, clay liner requires intermittent water to prevent dessication.	

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.


Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022 (501) 847 0202
Project No: <u>351//12/</u> Date of Penert: <u>6/12/2019</u>	(301) 647-9292
Client Name: American Electric Power	
Colliación: SFC	
	X Cloudy Courts
Location: Fullon, AR	
Technician Matt Acros	$\square \text{ Kalling} \qquad \square \text{Kalling} \qquad \square \text$
	Economy / Micty OF°E High Tomp (°E)
	<u> </u>
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:00 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 6:45 PM	Shelby Tube(s) X Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
<u>3</u> Dozer(s) Tractor & Paris	Liner Liner Liner
Z EXCAVATOR(S) Skidsteer	
Backhoe(s) I Water Fruck	COA COnsultant Concrete Crew
4 Haui Truck(s) 2 Sneeps Fool Compactor	Design EngineerPipe Installer
I Motor Grader(s) I Smooth Drum Compactor	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area th	nen loaded material into contractor haulers.
Contractor boulers transmisted alou lines restarial to wast borrs	
Contractor nations transported day liner material to west berm	<u>-</u>
Contractor dozers graded and spread clay liner material	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.
Contractor water truck wet placed material prior to placement of	of clay liner material and after placement to
prevent dessication	or day liner material and after placement to
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed placing lift one and two, and began placement	t of lift three.
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	um of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS	
Due to heat and breeze, clay liner requires intermittent water to	o prevent dessication.
Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 6/18/2018	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SEC	Clear
Drojost Namo: Turk Coll 2	
Representative: Greg Witte	X Raining X Hot
Technician: Matt Acree	X Windy $73^{\circ}F$ Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>92°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 9:30 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 11:15 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	1 Client Liner Crew
1 Excavator(s) Skidsteer	12 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 COA Consultant Concrete Crew
3 Haul Truck(s) 2 Sheens Foot Compactor	Design Engineer Pipe Installer
<u>1</u> Mater Crader(c) <u>1</u> Smooth Drum Compactor	1 Surveyor
Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area t Contractor haulers transported clay liner material to east berm	hen loaded material into contractor haulers. tie-in.
Contractor sneeps foot scarified prior to placement of clay liner	r and compacted clay liner.
Contractor water truck wet placed material prior to placement prevent dessication.	of clay liner material and after placement to
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Began placing lift one on east berm tie-in.	
COMPACTION EFFORTS: Contractor sheeps foot made a minim	um of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Due to heat and breeze, clay liner requires intermittent water t	o prevent dessication.
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end



Dail	y Pro	ject	Construction	Summary	/
------	-------	------	--------------	---------	---

[erracon]
25809 Interstate 30 South
Bryant AR 72022

Project No: <u>35177127</u> Date of Report: 6/19/2018	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SEC	
Droject Names Turk Coll 2	
	X Cloudy Court
Representative: Greg WITTE	X Raining X Hot
Technician: Matt Acree	10° F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>91°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Tractor & Pans	1 Client Liner Crew
1 Excavator(s) Skidsteer	12 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area th	hen loaded material into contractor haulers
Contractor haulers transported clay liner material to east berm	tie-in and west berm.
Contractor dozers graded and spread clay liner material.	
<u>Contractor sheeps foot scarified prior to placement of clay liner</u>	and compacted clay liner.
Contractor water truck wet placed material prior to placement of	of clay liner material and after placement to
prevent dessication	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed placing lift one on east berm tie-in and began	placing lift two. Completed lift three on west
berm and began placing lift four.	
COMPACTION FEFORTS: Contractor sheeps foot made a minimu	um of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Due to heat and breeze, clay liner requires intermittent water to	o prevent dessication.



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u> Date of Report: <u>6/20/2018</u>	(501) 847-9292
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: Clear Cold X Cloudy Cool Partly Cloudy X Warm X Raining Hot X Windy 72°F Low Temp. (°F) Foggy / Misty 91°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:6:15 AMDepart Site:8:45 AMArrive Site:6:30 AMArrive Lab:10:30 AM	XMoisture/DensitySubgradeShelby Tube(s)XClay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2Dozer(s)Tractor & Pans1Excavator(s)SkidsteerBackhoe(s)1Water Truck3Haul Truck(s)21Motor Grader(s)1Smooth Drum Compactor	1ClientLiner Crew12ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area th	en loaded material into contractor haulers.
Contractor haulers transported clay liner material to west berm.	
Contractor dozers graded and spread clay liner material.	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Began placing lift 4 on west berm.	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	Im of four passes to bring material to passing
OPERATIONAL CONCERNS & SOLUTIONS:	
Light rain early morning, eventual rain out.	
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South Bryant AR 72022
Project No: <u>35177127</u>	(501) 847-9292
Client Name American Electric Power	WEATHER
Contractor: SFC	x Clear Cold
Project Name: Turk Cell 2	X Cloudy Cool
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	x Raining x Hot
Technician: Matt Acree	Windy <u>74°F</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 92°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 7:45 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 9:45 AM Arrive Lab: 7:15 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	1 Client Liner Crew
1 Excavator(s) Skidsteer	8 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
1 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) 1 Smooth Drum Compactor	Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from cell floor and	then loaded material into contractor haulers.
Contractor baular transported clauliner material to south east	horm
	<u>berni.</u>
Contractor dozers graded southern cell floor to specified grade.	<u>-</u>
Contractor change foot coordinate rice to relace most of classification	
contractor sneeps root scarned prior to placement of clay liner	r and compacted clay liner.
· · · · · · · · · · · · · · · · · · ·	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed placing lift three on south east berm and bega	an lift four.
COMPACTION EFFORTS, Contractor choose fact made a minim	um of four passes to bring motorial to passing
compaction.	ium or rour passes to pring material to passing
OPERATIONAL CONCERNS & SOLUTIONS:	



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AB 72022
Project No:35177127Date of Report:6/24/2018Client Name:American Electric PowerContractor:SFC	(501) 847-9292 WEATHER: X Clear Cold
Project Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	X Cloudy Cool X Partly Cloudy X Warm Raining X Hot Windy 78°F Low Temp. (°F) Foggy / Misty 92°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:4:45 AMDepart Site:5:15 PMArrive Site:6:45 AMArrive Lab:7:00 PM	XMoisture/DensitySubgradeXShelby Tube(s)XClay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3Dozer(s)Tractor & Pans1Excavator(s)SkidsteerBackhoe(s)1Water Truck1Haul Truck(s)2Sheeps Foot CompactorMotor Grader(s)1Smooth Drum Compactor	1ClientLiner Crew10ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from cell floor and t	hen loaded material into contractor haulers.
Contractor hauler transported clay liner material to east berm.	
Contractor dozers graded southern cell floor to specified grade.	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner.
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed placing new section on east berm, lift one, two berm/south.	o, and three; and completed lift five on east
compaction.	and of four passes to bring material to passing
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be sub	bmitted to the Project Manager at the end

of each day	and should	be maintained	with the Pro	piect Records.
5. Sabii du				



Daily Project	Construction	Summary
		· · · · · · · · · · · · · · · · · · ·

American Electric Power

35177127

Turk Cell 2

Fulton, AR

Matt Acree

Cell 2

4:45 AM

6:45 AM

SFC

Date of Report: 6/25/2018

Representative: Greg Witte

25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292 WEATHER: Х Clear Cold Cloudy Cool x Partly Cloudy Х Warm Raining х Hot 70°F Low Temp. (°F) x Windy Foggy / Misty 95°F High Temp. (°F) FIELD TESTING PERFORMED: Subgrade X Moisture/Density x Clay Liner Shelby Tube(s) PERSONNEL ONSITE: 1 Client Liner Crew 14 Contractor Liner Installer 1 CQA Consultant Concrete Crew **Design Engineer Pipe Installer** Gas Line Inst. 1 Surveyor

QA/QC EXPECTATIONS:

Project No:

Client Name:

Contractor:

Location:

Technician:

Depart Lab:

Arrive Site:

1

3

1

Test Location:

REPORTING TIMES:

EQUIPMENT ONSITE:

Excavator(s)

Backhoe(s)

Haul Truck(s)

Motor Grader(s)

3 Dozer(s)

Project Name:

Observe placement of clay liner and to perform density tests.

SUMMARY OF ACTIVITIES OBSERVED:

Contractor excavator cut clay liner material from cell floor and then loaded material into contractor haulers.

5:15 PM

5:45 PM

Contractor hauler transported clay liner material to east and west berms.

Depart Site:

Arrive Lab:

Tractor & Pans

2 Sheeps Foot Compactor

1 Smooth Drum Compactor

Skidsteer

1 Water Truck

Contractor dozers graded southern cell floor to specified grade.

Contractor sheeps foot scarified prior to placement of clay liner and compacted clay liner.

LIFTS WORKED AND COMPACTION EFFORTS:

LIFTS: Completed lifts four and five on the west berm and began a new section, beginning to place lift one. Completed lifts four and five on east berm and began placing a new section.

COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing compaction.

OPERATIONAL CONCERNS & SOLUTIONS:



Daily Project Construction Summary	25809 Interstate 30 South Bryant AP 72022
Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 6/26/2018	
Contractor: SEC.	VEATHER:
Project Name: Turk Cell 2	
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	$\bigcup Windy \qquad \frac{77^{\circ}F}{2005} Low Temp. (°F)$
Test Location: Cell 2	Foggy / Misty <u>93°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
1 Excavator(s) Skidsteer	14 Contractor Liner Installer
Backhoe(s) I Water Truck	CQA Consultant Concrete Crew
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from cell floor and the	hen loaded material into contractor haulers.
Contractor bauler transported clay liner material to west herm	
contractor hadier transported day inter material to west bern.	
Contractor dozers spread and graded material on west berm.	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner
contractor sheeps foot scarmed pror to placement of clay line	and compacted day incr.
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed lifts one and two of a new section on west ber	m and began placing third.
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	im of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	



Daily	/ Pro	ject	Construction	Summary	/
-------	-------	------	--------------	---------	---

Gracon
25809 Interstate 30 South
Bryant AP 72022

Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 6/27/2018	
	WEATHER:
Contractor: SFC	
	V Partly Cloudy V Warm
Poprocontativo: Grog Witto	
Tochnician: Matt Acree	$\square Windy \qquad 70^{\circ} E low Temp (°E)$
Test Location: Cell 2	$\Box = For a v / Mist v = \frac{777}{101^{\circ}} E w Temp. (*F)$
	FIELD TESTING PERFORIVIED:
Depart Lab: 6:15 AIVI Depart Site: 5:15 PIVI	X Moisture/Density Subgrade
Arrive Site: 6:30 AIVI Arrive Lab: 5:45 PIVI	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
<u>3</u> Dozer(s) Tractor & Pans	<u>2</u> Client Liner Crew
<u>1</u> Excavator(s) <u>Skidsteer</u>	<u>14</u> Contractor Liner Installer
Backhoe(s) <u>1</u> Water Truck	1 CQA Consultant Concrete Crew
<u>3</u> Haul Truck(s) <u>2</u> Sheeps Foot Compactor	Design Engineer Pipe Installer
I Motor Grader(s) I Smooth Drum Compactor	Gas Line Inst.
Observe placement of clay liner and to perform density tests	
observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area ar	nd loaded into contractor haulers.
Contractor haulers transported clay liner material to west berm.	<u>.</u>
Contractor dozers spread and graded material on west berm.	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner after placement.
LIFTS: Completed lift three and began four and began placing fiv	e; completed separate section lift one and
two and began placing three.	-, F
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	um of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022 (501) 847 9292
Project No: <u>35177127</u> Date of Report: 6/28/2018	(301) 647-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	X Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy <u>79°F</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>101°I</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner
	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
1 Excavator(s) Skidsteer	14 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1SurveyorGas Line Inst.
QA/QC EXPECTATIONS: Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut clay liner material from borrow area and Contractor haulers transported clay liner material to east and w Contractor dozers spread and graded material on east and west make access available. Began creating ramp on west berm as weet Contractor sheeps foot scarified prior to placement of clay liner Contractor water truck ran, wetting material before compaction	nd loaded into contractor haulers. est berm. berm. Also created a ramp on east berm to ell but not complete. and compacted clay liner after placement.
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Began placing lift five on west berm. COMPACTION EFFORTS: Contractor sheeps foot made a minimu	um of four passes to bring material to passing
Water truck became inoperable early in the morning slowing do	wn placement. Technician came out same-
day to make repairs.	
Note: Copies of all completed "Project Field Record Forms" are to be sul	bmitted to the Project Manager at the end



Daily	/ Pro	ject	Construction	Summary
-------	-------	------	--------------	---------

٦	[erracon]
	25809 Interstate 30 South
	Bryant AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Client Name: Amorican Electric Power	
Contractor: SEC	
Project Name: TURK Cell 2	
Location: Fullon, AR	
Representative: Greg Witte	
	1010 X Windy 77° Low Temp. (*F)
lest Location: <u>Cell 2</u>	Foggy / Misty <u>101*1</u> High Temp. (*F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	xShelby Tube(s)xClay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
1 Excavator(s) Skidsteer	12 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area ar	nd loaded into contractor haulers.
	aat barre
<u>contractor natiers transported clay liner material to east and we</u>	est derm.
Contractor dozers spread and graded material on east and west	berm.
· · · ·	
Contractor sheeps foot scarified prior to placement of clay liner	and compacted clay liner after placement.
Contractor water truck rep, watting material before compaction	
Contractor water truck ran, wetting material before compaction	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Placed lift sections two, three, four, and five on west bern	n. Placed lift sections two and four.
COMPACTION FEEOPTS: Contractor shoops foot made a minimu	Im of four passes to bring material to passing
compaction	an of four passes to bring material to passing
OPERATIONAL CONCERNS & SOLUTIONS:	
Dry and windy conditions dry out material, frequent runs by wat	ter truck prevented dessication.



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u>	(501) 847-9292
Client Name American Electric Power	WEATHER
Contractor: SFC	x Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	X Windy <u>77°F</u> Low Temp. (°F)
	Foggy / Misty <u>98°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 7:00 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	_1_ClientLiner Crew
2 Excavator(s) Skidsteer	14 Contractor Liner Installer
Backhoe(s) <u>1</u> Water Truck	1 CQA Consultant Concrete Crew
<u>3</u> Haul Truck(s) <u>2</u> Sheeps Foot Compactor	Design Engineer Pipe Installer
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut clay liner material from borrow area a	and loaded into contractor haulers.
Contractor haulers transported clay liner material to east and w	vest berm.
Contractor dozors sproad and graded material on east and wes	thorm
Contractor sheeps foot scarified prior to placement of clay liner	r and compacted clay liner after placement.
	· · ·
Contractor water truck ran, wetting material before compaction	n.
Degan placing material for subgrade at parth and of call floor	
began placing material for subgrade at north end of cell hoor.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed lift five on east and west berm.	
COMPACTION EFFORTS: Contractor sheeps foot made a minim	um of four passes to bring material to passing
compaction.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Dry and windy conditions dry out material, frequent runs by wa	ater truck prevented dessication.
Note: Conjes of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: 35177127 Date of Report: 7/1/2018	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	x Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	X Windy 77°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 96°F High Temp. (°F)
	FIELD TESTING PERFORMED:
Depart Lab: 4:45 AM Depart Site: 4:00 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 4:45 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
2 Excavator(s) Skidsteer	14 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
Contractor ovcavator cut clay linor material from porth and of col	Il and loaded into contractor baulors
contractor excavator cut clay liner material norm north end of cer	
Contractor haulers transported clay liner material to subgrade and	ea at north end of cell floor.
Contractor dozers spread and graded material for subgrade at no	rth end of cell floor.
Contractor sheeps foot scarified prior to placement of clay liner a	ind compacted clay liner after placement.
Contractor water truck ran, wetting material before compaction.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Continued Hilling subgrade at north end of cell	
COMPACTION EFEORTS: Contractor shoops foot made a minimur	m of four passos to bring material to passing
compaction	n or rour passes to bring material to passing
OPERATIONAL CONCERNS & SOLUTIONS:	
Dry and windy conditions dry out material, frequent runs by wate	er truck prevented dessication. GPS receiver
on one of the contractor dozers went out and was irreparable for	the afternoon. Ended day at 4:00 PM.
	, , , , , , , , , , , , , , , , , , ,



Daily	/ Pro	ject	Construction	Summary
-------	-------	------	--------------	---------

Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u> Date of Report: <u>7/2/2018</u>	(501) 847-9292
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: X Clear Cold Cloudy Cool Partly Cloudy X Warm Raining X Hot X Windy 77°F Low Temp. (°F) Foggy / Misty 104°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:6:15 AMDepart Site:5:15 PMArrive Site:6:30 AMArrive Lab:5:45 PM	Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3Dozer(s)Tractor & Pans2Excavator(s)SkidsteerBackhoe(s)1Water Truck3Haul Truck(s)Sheeps Foot Compactor1Motor Grader(s)1Smooth Drum Compactor	2ClientLiner Crew14ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator loaded clay liner material from west berm	to north end of cell floor.
Contractor haulers transported structural fill material to subgrac	de area at north end of cell floor.
Contractor dozers spread and graded structural fill material for s	subgrade at north end of cell floor. Also
<u>Graded inside slope of west berm.</u> <u>Contractor water truck ran, wetting material before compaction</u>	<u>.</u>
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Continued filling subgrade at north end of cell	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	im of four passes to bring material to passing
OPERATIONAL CONCERNS & SOLUTIONS: Dry and windy conditions dry out material, frequent runs by wat	er truck prevented dessication.
Note: Copies of all completed "Project Field Record Forms" are to be sub of each day and should be maintained with the Project Records.	omitted to the Project Manager at the end



	15
Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report: 7/3/2018	
Client Name: American Electric Power	WEATHER:
Contractor: SFC	X Clear Cold
Project Name: Turk Cell 2	
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	X Raining X Hot 77°F Low Town (°F)
	$\frac{77 \text{ F Low Temp. (F)}}{103^{\circ}\text{E High Temp. (°E)}}$
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:6:15 AMDepart Site:5:15 PMArrive Site:6:30 AMArrive Lab:5:45 PM	Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Tractor & Pans	2 Client Liner Crew
1 Excavator(s) Skidsteer	14 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
<u>1</u> Motor Grader(s) <u>1</u> Smooth Drum Compactor	Gas Line Inst.
Observe placement of clay liner and to perform density tests.	
SUMIMARY OF ACTIVITIES OBSERVED:	into haulers
contractor excavator loaded elay inter material non west berni	
Contractor haulers transported clay liner material to subgrade an	rea at north end of cell floor.
Contractor dozers spread and graded material for subgrade at no	orth end of cell floor. Also graded inside and
outside slope of west berm.	
Contractor water truck ran, wetting material before compaction	
LIFTS:	
LIFTS: COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of four passes to bring material to passing
LIFTS: COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	m of four passes to bring material to passing
LIFTS: COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS:	m of four passes to bring material to passing
LIFTS: COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS: Dry and windy conditions dry out material, frequent runs by wate	m of four passes to bring material to passing er truck prevented dessication.

of each day and should be maintained with the Project Records.



Dail	y Pro	ject	Construction	Summary	/
------	-------	------	--------------	---------	---

Daily Project Construction Summary	25809 Interstate 30 South				
Project No: <u>35177127</u> Date of Report: <u>7/4/2018</u> Client Name: American Electric Power	(501) 847-9292				
Contractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	x Clear Cold x Cloudy Cool x Partly Cloudy x Raining x Hot Windy 77°F Low Temp. (°F) Foggy / Misty 91°F High Temp. (°F)				
REPORTING TIMES:Depart Lab:6:15 AMArrive Site:6:30 AMArrive Lab:5:45 PM	Moisture/Density Subgrade Shelby Tube(s) Clay Liner				
EQUIPMENT ONSITE: 3 Dozer(s) 2 Excavator(s) Backhoe(s) 1 Water Truck Haul Truck(s) 1 Sheeps Foot Compactor Motor Grader(s) 1	PERSONNEL ONSITE: 2 Client Liner Crew 14 Contractor Liner Installer 1 CQA Consultant Concrete Crew Design Engineer Pipe Installer 1 Surveyor Gas Line Inst.				
QA/QC EXPECTATIONS: Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator loaded clay liner material from east and we material from northern side of north berm in anticipation of man haulers. Contractor haulers transported clay liner material to subgrade ar	est berm into haulers. Also cut existing whole placement and loaded material into ea at north end of cell floor. Also				
transported north berm structural fill material to overburden pile Contractor dozers graded outside slope of west berm and inside	slope of east berm.				
Contractor water truck ran, wetting material before compaction Contractor smooth drum compacted and leveled south end of cell floor in anticipation of certification for liner placement.					
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: No lifts added. COMPACTION EFFORTS: Contractor sheeps foot made a minimum compaction.	m of four passes to bring material to passing				
OPERATIONAL CONCERNS & SOLUTIONS: Dry and windy conditions dry out material, frequent runs by water truck prevented dessication.					
Note: Copies of all completed "Project Field Record Forms" are to be sub	mitted to the Project Manager at the end				



Daily	y Pro	ject	Construction	Summary
-------	-------	------	--------------	---------

Project No: 35177127	Bryant, AR 72022 (501) 847-9292			
Date of Report: 7/5/2018				
Client Name: American Electric Power	WEATHER:			
Contractor: SFC	Clear Cold			
Project Name: Turk Cell 2	X Cloudy Cool			
Location: Fulton, AR	x Partly Cloudy x Warm			
Representative: Greg Witte	x Raining X Hot			
Technician: Matt Acree	Windy <u>76°F</u> Low Temp. (°F)			
Test Location: Cell 2	Foggy / Misty <u>94°F</u> High Temp. (°F)			
REPORTING TIMES:	FIELD TESTING PERFORMED:			
Depart Lab: 6:15 AM Depart Site: 3:30 PM	Moisture/Density Subgrade			
Arrive Site: 6:30 AM Arrive Lab: 5:15 PM	Shelby Tube(s) Clay Liner			
EQUIPMENT ONSITE:	PERSONNEL ONSITE:			
3 Dozer(s) Tractor & Pans	2 Client Liner Crew			
2 Excavator(s) Skidsteer	14 Contractor Liner Installer			
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew			
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer			
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.			
QA/QC EXPECTATIONS:				
Observe placement of clay liner and to perform density tests.				
SUMMARY OF ACTIVITIES OBSERVED:				
Contractor excavator loaded clay liner material from east berm	and north area subgrade into haulers.			
Contractor baulors transported clay liner material to subgrade	area at parth and of call floor. Also			
transported north berm structural fill material to overburden p	ile			
Contractor dozers graded inside slope of east berm and north of	cell floor subgrade.			
Contractor water truck ran, wetting material before compactio	<u>n</u>			
Contractor smooth drum compacted and loveled south and of	coll floor in anticipation of cortification for			
liner placement. Contractor workers filled in any low areas to b	e compacted			
LIFTS WORKED AND COMPACTION EFFORTS:				
LIFTS: No lifts added.				
CUIVIPACTION EFFORTS: Contractor sheeps foot made a minim	num of four passes to bring material to passing			
Dry and windy conditions dry out material. frequent runs by wa	ater truck prevented dessication. Pop-up			
thunderstorm in the afternoon shut down the operation of heavy equipment at around 3:15 PM.				
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end			

асоп



Daily Project Construction Summary

 erracon
 25809 Interstate 30 South
Bryant, AR 72022
(501) 847-9292

Project No: <u>35177127</u> Date of Report: 7/10/2018	(501) 847-9292				
Client Name: American Electric Power	WEATHER:				
Contractor: SEC					
Project Name: Turk Cell 2					
	V Partly Cloudy				
Location. Fullon, An					
	$\frac{1}{\sqrt{4^{2}F}} Low Temp. (^{2}F)$				
Test Location: Cell 2	Foggy / Misty 100°F High Temp. (°F)				
REPORTING TIMES:	FIELD TESTING PERFORMED:				
Depart Lab: 5:45 AM Depart Site: 5:15 PM	X Moisture/Density X Subgrade				
Arrive Site:7:45 AMArrive Lab:5:45 PM	x Shelby Tube(s) x Clay Liner				
EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
3 Dozer(s) Tractor & Pans	2 Client Liner Crew				
1 Excavator(s) Skidsteer	11 Contractor Liner Installer				
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew				
2 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer				
Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.				
QA/QC EXPECTATIONS:					
Observe placement of clay liner and to perform density tests.					
Contractor dozers spread stockniled material over subgrade at r	porth and of cell floor into clay liner				
<u>contractor dozers spread stockpried material over subgrade at north end of cen noor into day liner.</u>					
Contractor haulers transported clay liner material to subgrade a	rea at north end of cell floor from the borrow				
area.					
Contractor excavator cut and loaded clav liner material into hau	Il trucks.				
Contractor water truck ran, wetting material before compaction	<u>1</u>				
Contractor sheeps foot compacted subgrade before clay liner material was placed and then compacted it					
LIETS WORKED AND COMPACTION FEFORTS					
LIETS: Added lift one to north end of cell floor and began placing	n lift two				
COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing					
compaction. Contractor smooth drum created testing pads.					
OF ERATIONAL CONCERNS & SOLUTIONS.					


Daily	Pro	ject	Construction	Summary
-------	-----	------	--------------	---------

Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022		
Project No: <u>35177127</u> Date of Report: <u>7/11/2018</u>	(501) 847-9292		
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: x Clear Cold x Cloudy Cool x Partly Cloudy X Raining X Hot Windy 75°F Low Temp. (°F) Foggy / Misty 100°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab:6:15 AMDepart Site:5:00 PMArrive Site:7:00 AMArrive Lab:7:00 PM	XMoisture/DensitySubgradeXShelby Tube(s)XClay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
3Dozer(s)Tractor & Pans1Excavator(s)SkidsteerBackhoe(s)1Water Truck2Haul Truck(s)21Motor Grader(s)1Smooth Drum Compactor	2ClientLiner Crew14ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.		
QA/QC EXPECTATIONS: Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor dozers spread clay liner material over subgrade at north end of cell. Also graded inside slope of east berm. Contractor haulers transported clay liner material to subgrade area at north end of cell floor from the borrow area. Contractor excavator cut and loaded clay liner material into haul trucks.			
Contractor water truck ran, wetting material before compaction			
Contractor sheeps foot compacted subgrade before clay liner ma again after it was placed.	aterial was placed and then compacted it		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Added lift one to north end of cell floor and began placing	lift two.		
COMPACTION EFFORTS: Contractor sheeps foot made a minimum compaction. Contractor smooth drum created testing pads.	m of four passes to bring material to passing		
OPERATIONAL CONCERNS & SOLUTIONS			
Note: Copies of all completed "Project Field Record Forms" are to be sub	mitted to the Project Manager at the end		



Daily Proje	ect Construction Summary				25809 Interstate 30 South
Project No:	35177127				Bryant, AR 72022 (501) 847-9292
Date of Report:	7/12/2018				
Client Name:	American Electric Power	Γ	WE	ATHER:	
Contractor:	SFC / ESI		Х	Clear	Cold
Project Name:	Turk Cell 2		Х	Cloudy	
Location:	Fulton, AR		X	Partly Cloudy	x Warm
Representative:	Greg Witte		X	Raining	X Hot
Technician:	Matt Acree			Windy	75°F Low Temp. (°F)
Test Location:	Cell 2			Foggy / Misty	99°F High Temp. (°F)
REPORTING TIME		[FIEL	D TESTING PERFORM	MED:
Depart Lab: Arrive Site:	4:45 AMDepart Site:4:00 PM6:45 AMArrive Lab:5:45 PM		X X	Moisture/Density Shelby Tube(s)	Subgrade X Clay Liner
EQUIPMENT ONS	ITE:	Γ	PER	SONNEL ONSITE:	
3 Dozer(s)	Tractor & Pans		2	Client	16 Liner Crew
1 Excavator(s) Skidsteer		14	Contractor	Liner Installer
Backhoe(s)	1 Water Truck		2	CQA Consultant	Concrete Crew
2 Haul Truck(s) 2 Sheeps Foot Compactor			Design Engineer	Pipe Installer
1 Motor Grac	ler(s) 1 Smooth Drum Compactor		1	Surveyor	Gas Line Inst.
QA/QC EXPECTA	TIONS:				
Observe placen	nent of clay liner and to perform density tests.	<u>.</u>			
	• · · ·	_			
SUMMARY OF A	CTIVITIES OBSERVED:				
Contractor doze	ers spread clay liner material over subgrade at	nor	th er	nd of cell. Also grac	led inside slope of
east and west b	erm.			_	

Preacon

Contractor haulers transported clay liner material to subgrade area at north end of cell floor from the borrow area and from gathered material on cell floor.

Contractor excavator cut and loaded clay liner material into haul trucks.

Contractor water truck ran, wetting material before compaction.

Contractor sheeps foot compacted subgrade before clay liner material was placed and then compacted it again after it was placed.

ESI liner crew set up trailers and began filling sandbags.

LIFTS WORKED AND COMPACTION EFFORTS:

LIFTS: Completed placing lift three and began placing lift four.

COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing compaction. Contractor smooth drum created testing pads.

OPERATIONAL CONCERNS & SOLUTIONS:

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



ferracon
25809 Interstate 30 South
Bryant, AR 72022

	(501) 847-9292
Date of Report: 7/13/2018	
Contractor: SFC / ESI	
Project Name: TURK Cell 2	
Location: Fulton, AR	X Partly Cloudy X Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy <u>75°F</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>98°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner
3 Dozor(s) Tractor & Pans	2 Client Liner Crew
$\frac{-3}{1} = \frac{1}{1} = 1$	12 Contractor Liner Installer
Backback	2 COA Consultant Concrete Crew
Dackfilde(s) Water fluck	Design Engineer Dipo Installer
<u>3</u> Haui Huck(s) <u>2</u> sheeps Foot compactor	
I Motor Grader(s) I smooth Drum compactor	
Observe placement of clay liner and to perform density tests	
observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor dozers spread clay liner material over subgrade at no	orth end of cell. Also graded inside slope of
West berm.	of call floor from actioned motorial on call
<u>West berm.</u> Contractor haulers transported clay liner material to north end of floor	of cell floor from gathered material on cell
<u>West berm.</u> <u>Contractor haulers transported clay liner material to north end of floor.</u>	of cell floor from gathered material on cell
<u>West berm.</u> <u>Contractor haulers transported clay liner material to north end of floor.</u> <u>Contractor excavator loaded clay liner material into haul trucks a</u> <u>porth horm. Also horgen outting englisher trengh clang south horm.</u>	of cell floor from gathered material on cell and removed wet material from open area of
<u>West berm.</u> <u>Contractor haulers transported clay liner material to north end of floor.</u> <u>Contractor excavator loaded clay liner material into haul trucks a</u> <u>north berm. Also began cutting anchor trench along south berm</u> <u>Contractor water truck cap, wetting material before compaction</u>	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u>
<u>West berm.</u> <u>Contractor haulers transported clay liner material to north end of floor.</u> <u>Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm</u> <u>Contractor water truck ran, wetting material before compaction</u>	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u>
<u>West berm.</u> <u>Contractor haulers transported clay liner material to north end of</u> <u>floor.</u> <u>Contractor excavator loaded clay liner material into haul trucks a</u> <u>north berm. Also began cutting anchor trench along south berm</u> <u>Contractor water truck ran, wetting material before compaction</u> <u>Contractor sheeps foot compacted clay liner material and compacted</u>	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u> <u>n.</u> pacted it again after it was placed.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compared	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u> n. pacted it again after it was placed.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and clay liner mate	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u> <u>n.</u> pacted it again after it was placed.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compacted clay liner material and compact ESI held off deployment of Geomembrane due to rain on previou	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u> n. vacted it again after it was placed.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compaction ESI held off deployment of Geomembrane due to rain on previou LIFTS WORKED AND COMPACTION EFFORTS:	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u> <u>n.</u> acted it again after it was placed.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compacted clay liner material and compact ESI held off deployment of Geomembrane due to rain on previou LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift four at north end of cell.	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u> nacted it again after it was placed. ous day.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compacted clay	of cell floor from gathered material on cell and removed wet material from open area of <u>h.</u> h. h. hacted it again after it was placed. hus day.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compactor Contractor sheeps foot compacted clay liner material and compaction ESI held off deployment of Geomembrane due to rain on previou LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift four at north end of cell. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u> <u>n.</u> acted it again after it was placed. ous day.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compactor sheeps foot compacted clay liner material and compacted clay liner material and compaction ESI held off deployment of Geomembrane due to rain on previou LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift four at north end of cell. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads.	of cell floor from gathered material on cell and removed wet material from open area of
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compactor ESI held off deployment of Geomembrane due to rain on previou LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift four at north end of cell. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads. OPERATIONAL CONCERNS & SOLUTIONS:	of cell floor from gathered material on cell and removed wet material from open area of <u>n.</u> nacted it again after it was placed. ous day.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compaction Contractor sheeps foot compacted clay liner material and compaction ESI held off deployment of Geomembrane due to rain on previou LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift four at north end of cell. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads. OPERATIONAL CONCERNS & SOLUTIONS:	of cell floor from gathered material on cell and removed wet material from open area of
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compactor ESI held off deployment of Geomembrane due to rain on previou LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift four at north end of cell. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads. OPERATIONAL CONCERNS & SOLUTIONS:	of cell floor from gathered material on cell and removed wet material from open area of <u>n</u> . nacted it again after it was placed. ous day.
West berm. Contractor haulers transported clay liner material to north end of floor. Contractor excavator loaded clay liner material into haul trucks a north berm. Also began cutting anchor trench along south berm Contractor water truck ran, wetting material before compaction Contractor sheeps foot compacted clay liner material and compactor Contractor sheeps foot compacted clay liner material and compactor ESI held off deployment of Geomembrane due to rain on previou LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift four at north end of cell. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads. OPERATIONAL CONCERNS & SOLUTIONS:	of cell floor from gathered material on cell and removed wet material from open area of b. b.



[erracon ⁻
25809 Interstate 30 South
Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Date of Report: //14/2018 Client Name: American Electric Power	
Contractor: SEC / ESI	
Project Name: Turk Cell 2	
	Partly Cloudy V Warm
Poprocontativo: Crog Witto	
Technician: Matt Acros	\square Windy $\overline{5^{\circ}E}$ Low Tomp (°E)
Technician: Matt Acree	$\square For any / Misty = \frac{73 \text{F Low Temp. (F)}}{93^{\circ}\text{E High Tomp. (°E)}}$
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) 1 Skyjack	1 Client 15 Liner Crew
3 Excavator(s) 1 Skidsteer	13 Contractor Liner Installer
Backhoe(s) 1 Water Truck	3 CQA Consultant Concrete Crew
4 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor dozers cleared manhole area in north berm, graded c	ell floor, and spread material on east berm
<u>Contractor naulers transported overburden from planned manno</u>	Die location. Also hauled clay liner to horth
Contractor excavator removed overburden from manhole location	on of north berm, completed cutting the
anchor trench on south berm, and loaded clay liner material from	n west berm and cell floor into haulers.
Contractor water truck ran, wetting material before compaction.	<u>.</u>
Contractor sheeps foot reconditioned placed material and compa	acted clay liner material that was placed.
FSI began deployment of Geomembrane on the south end of Cel	1.2 FSI performed trial welds prior to
seaming and performed non-destructive testing after seaming	
LIETS WORKED AND COMPACTION FFFORTS	
LIFTS: Completed placing lift two at north end of east berm	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of four passes to bring material to passing
compaction. Contractor smooth drum created testing pads.	
OPERATIONAL CONCERNS & SQLUTIONS	
Note: Conjes of all completed "Project Field Pecord Forms" are to be sub	mitted to the Project Manager at the end

of each day and should be maintained with the Project Records.



1[erracon ⁻
25809 Interstate 30 South
Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292		
Date of Report: 7/15/2018			
	WEATHER:		
Contractor: SFC / ESI			
Project Name: Turk Cell 2			
Location: Fulton, AR	x Partly Cloudy x Warm		
Representative: Greg Witte	Raining X Hot		
Technician: Matt Acree	Windy <u>75°F</u> Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty <u>94°F</u> High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade		
Arrive Site: 6:30 AM Arrive Lab: 7:15 PM	x Shelby Tube(s) x Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
3 Dozer(s) 1 Skyjack	1 Client 15 Liner Crew		
$\frac{1}{2}$ Excavator(s) $\frac{1}{1}$ Skidsteer	13 Contractor Liner Installer		
Backhoe(s) 1 Water Truck	2 COA Consultant Concrete Crew		
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pine Installer		
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst		
OA/OC EXPECTATIONS:			
Observe placement of clay liner and to perform density tests			
biserve placement of elay liner and to perform density tests.			
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor dozers spread clay liner material in manhole area in north berm, graded cell floor, and spread			
material on east berm			
<u>Contractor haulers transported clay liner material to manhole location in north berm. Also hauled clay liner to</u>			
<u>north end of east berm.</u> Contractor excavator loaded clay liner material into haulers from horrow area			
Contractor excavator loaded clay liner material into haulers from borrow area.			
Contractor water truck ran, wetting material before compaction.			
Contractor sheeps foot reconditioned placed material and compacted clay liner material that was placed.			
ESI continued deployment of Geomembrane on the south end of Cell 2. ESI performed trial welds prior to			
seaming and performed non-destructive testing after seaming. Destructs were cut and tested.			
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS: Completed placing lift two, three, four, and five at north e	nd of east berm and lifts one, two, and three		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift two, three, four, and five at north er around the manhole location in north berm.	nd of east berm and lifts one, two, and three		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift two, three, four, and five at north er around the manhole location in north berm. COMPACTION EFFORTS: Contractor sheeps foot made a minimum	nd of east berm and lifts one, two, and three		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift two, three, four, and five at north er around the manhole location in north berm. COMPACTION EFFORTS: Contractor sheeps foot made a minimum compaction. Contractor smooth drum created testing pads.	nd of east berm and lifts one, two, and three m of four passes to bring material to passing		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift two, three, four, and five at north en around the manhole location in north berm. COMPACTION EFFORTS: Contractor sheeps foot made a minimum compaction. Contractor smooth drum created testing pads.	nd of east berm and lifts one, two, and three m of four passes to bring material to passing		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift two, three, four, and five at north en- around the manhole location in north berm. COMPACTION EFFORTS: Contractor sheeps foot made a minimum compaction. Contractor smooth drum created testing pads.	nd of east berm and lifts one, two, and three m of four passes to bring material to passing		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift two, three, four, and five at north en- around the manhole location in north berm. COMPACTION EFFORTS: Contractor sheeps foot made a minimum compaction. Contractor smooth drum created testing pads.	nd of east berm and lifts one, two, and three m of four passes to bring material to passing		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed placing lift two, three, four, and five at north en- around the manhole location in north berm. COMPACTION EFFORTS: Contractor sheeps foot made a minimum compaction. Contractor smooth drum created testing pads. OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be sub	nd of east berm and lifts one, two, and three m of four passes to bring material to passing mitted to the Project Manager at the end		



|--|

Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: 35177127 Date of Report: $7/16/2018$ Client Name:American Electric PowerContractor:SFC / ESIProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt Acree/Scott McDonaldTest Location:Cell 2Depart Lab: $4:45$ AMDepart Site: $5:15$ PMArrive Site: $6:45$ AM $6:45$ AMArrive Lab: $5:45$ PMArrive Site:1Skujack1EQUIPMENT ONSTE: 3 Dozer(s)1 1 Skujack 1 Recavator(s)1 1 Skujack 1 Haul Truck(s)1 3 Haul Truck	WEATHER: X Clear Cold Cloudy Cool X Partly Cloudy X Raining X Hot Windy 75°F Low Temp. (°F) Foggy / Misty 103°f High Temp. (°F) FIELD TESTING PERFORMED: Moisture/Density Subgrade X Shelby Tube(s) X Client 15 Liner Crew 12 Consultant Concrete Crew Design Engineer Pipe Installer
QA/QC EXPECTATIONS: Observe placement of clay liner and to perform density tests. SUMMARY OF ACTIVITIES OBSERVED: Contractor dozers spread clay liner material in manhole area in n	north berm and graded cell floor.
Contractor haulers transported clay liner material to manhole loo	cation in north berm.
Contractor water truck ran, wetting material before compaction. Contractor sheeps foot reconditioned placed material and compact ESI performed trial welds, made repairs to geomembrane, and no	acted clay liner material that was placed. on-destructively tested repairs. Continued
testing destructs in the field and sent to TRI for lab testing. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed Place lifts four, five, and six in the manhole are COMPACTION EFFORTS: Contractor sheeps foot made a minimum	ea of the north berm.
Compaction. Contractor smooth drum created testing pads.	
Note: Copies of all completed "Project Field Record Forms" are to be sub	mitted to the Project Manager at the end



Daily	/ Pro	ject	Construction	Summary
]	•••••••	<u> </u>

Daily Project Construction Summary	25809 Interstate 30 South Bryant, AP, 72022		
Project No:35177127Date of Report:7/17/2018Client Name:American Electric Power	(501) 847-9292 WEATHER:		
Contractor:SFC / ESIProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt Acree/Scott McDonaldTest Location:Cell 2	x Clear Cold Cloudy Cool x Partly Cloudy X Raining X Hot Windy 75°F Low Temp. (°F) Foggy / Misty 95°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab:6:15 AMDepart Site:5:15 PMArrive Site:6:30 AMArrive Lab:5:45 PM	X Moisture/Density Subgrade Shelby Tube(s) X Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
3Dozer(s)1Skyjack1Excavator(s)1SkidsteerBackhoe(s)1Water Truck4Haul Truck(s)1Sheeps Foot Compactor1Motor Grader(s)1Smooth Drum Compactor	2ClientLiner Crew12ContractorLiner Installer2CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.		
QA/QC EXPECTATIONS:			
Observe placement of clay liner and to perform density tests.			
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor dozers spread clay liner material in manhole area in n	orth berm and graded cell floor.		
Contractor haulers transported clay liner material to manhole loo	cation in north berm.		
Contractor excavator loaded clay liner material into haulers from	borrow area. Also cut shallow trench for		
<u>Manhole installation as well as piping.</u>	Contractor sheeps foot reconditioned		
placed material and compacted clay liner material that was place	ed.		
Installed manhole into north berm location as well as piping in th	ne area.		
MTG on site to survey geomembrane information and top of clay results from TRI. Two samples did not pass and will be retested a	y in the prepared areas. Received destruct according to project specifications.		
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS: Completed lift seven.			
COMPACTION EFFORTS: Contractor sheeps foot made a minimum	m of four passes to bring material to passing		
compaction. Contractor smooth drum created testing pads.			
OPERATIONAL CONCERNS & SOLUTIONS:			
Note: Copies of all completed "Project Field Record Forms" are to be sub	mitted to the Project Manager at the end		



Dail	v Pro	iect	Construction	Summarv
Pull		JO01		Gainnary

Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022				
Project No: <u>35177127</u>	(501) 847-9292				
Date of Report: 7/18/2018					
Client Name: American Electric Power	WEATHER:				
Contractor: SFC / ESI					
	X Cloudy Cool X Partly Cloudy X				
Representative: Greg Witte					
Technician: Matt Acree/Scott McDonald	Windy 74°F Low Temp. (°F)				
Test Location: Cell 2	Foggy / Misty 93°F High Temp. (°F)				
REPORTING TIMES:	FIELD TESTING PERFORMED:				
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade				
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner				
EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
3 Dozer(s) Skyjack	2 Client 15 Liner Crew				
2 Excavator(s) 1 Skidsteer	12 Contractor Liner Installer				
Backhoe(s) 1 Water Truck	2 CQA Consultant Concrete Crew				
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer				
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.				
QA/QC EXPECTATIONS:					
Observe placement of clay liner and to perform density tests. Observe placement of geosynthetics.					
SUMMARY OF ACTIVITIES OBSERVED:					
Contractor dozers spread clay liner material in manhole area in north berm.					
Contractor haulers transported clay liner material to manhole location in north berm.					
Contractor excavator spread and filled in clay liner material around the manhole in porth berm. Helped					
compact the material around the pipe. Also loaded clay liner material into haulers from borrow area					
Contractor water truck ran, wetting material before compaction.					
Contractor sheeps foot reconditioned placed material and compa	acted clay liner material that was placed				
around manhole pipe. Also used a trench packer to raise compaction.					
ESI deployed geocomposite on the south end of the Cell. Marked and tested additional Destruct samples and					
sent to TRI.					
LIFTS: Completed lift eight					
Li 15. completed int eight.					

COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing compaction. Contractor smooth drum created testing pads.

OPERATIONAL CONCERNS & SOLUTIONS:

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Dail	v Pro	iect	Construction	Summarv
Pany		1000		C annar y

	Bryant AR 72022
Proiect No: 35177127	(501) 847-9292
Date of Report: 7/19/2018	
Client Name: American Electric Power	WEATHER:
Contractor: SFC / ESI	x Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree/Scott McDonald	Windy 74°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 101°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 7:00 PM	Shelby Tube(s) X Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Skyjack	2 Client 15 Liner Crew
2 Excavator(s) 1 Skidsteer	13 Contractor Liner Installer
Backhoe(s) 1 Water Truck	2 CQA Consultant Concrete Crew
4 Haul Truck(s) 1 Sheeps Foot Compactor	2 Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe placement of clay liner and to perform density tests. Ob	oserve placement of geosynthetics.
SUIVIIVIARY OF ACTIVITIES OBSERVED:	
contractor dozers spread clay liner material in mannole area in n	iorth berm.
Contractor haulers transported clay liner material to manhole loc	cation in north berm.
Contractor excavator loaded clay liner material into haulers from	borrow area. Helped install next section of
manhole in north berm.	

809 Interstate 30 Sou

Contractor water truck ran, wetting material before compaction.

Contractor sheeps foot reconditioned placed material and compacted clay liner material that was placed around manhole pipe.

ESI deployed geomembrane, performed trial welds, seaming, and made repairs to geomembrane. All seams and repairs were non-destructively tested repairs. Marked and tested additional Destruct samples and sent to TRI.

LIFTS WORKED AND COMPACTION EFFORTS:

LIFTS: Completed lift nine, ten, eleven, and twelve.

COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing compaction. Contractor smooth drum created testing pads.

OPERATIONAL CONCERNS & SOLUTIONS:

Extreme heat advisory for the day.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Dail	v Pro	iect	Construction	Summarv
Pany		1000		C annar y

lorraron
25809 Interstate 30 South
Bryant AR 72022

Project No: <u>35177127</u>	(501) 847-9292		
Date of Report: 7/20/2018			
	WEATHER:		
Contractor: SFC / ESI			
Project Name: Iurk Cell 2			
Location: Fulton, AR	Partly Cloudy X Warm		
Representative: Greg Witte	Raining X Hot		
Technician: Matt Acree/Scott McDonald	Windy <u>77°F</u> Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty <u>102°F</u> High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 4:45 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade		
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner		
FOUIPMENT ONSITE:	PERSONNEL ONSITE:		
3 Dozer(s) 1 Skylack	2 Client 15 Liner Crew		
$\frac{3}{2}$ Excavator(s) $\frac{1}{1}$ Skidsteer	14 Contractor		
Backboe(s) 1 Water Truck	2 COA Consultant Concrete Crew		
Dackhoe(s) Water Huck	Dosign Engineer Dine Installer		
4 Haul Huck(s) 1 Sheeps Foot compactor	Design EngineerPipe Installer		
I Motor Grader(s) I Smooth Drum Compactor	Gas Line Inst.		
OA/OC EXPECTATIONS:			
Observe placement of structural fill/clay liner and to perform de	ensity tests. Observe placement of		
reosynthetics	histy tests. Observe placement of		
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor dozers spread clay liner material in manhole area in north berm, grade inside slope of north berm,			
spread structural fill material on top of north berm, and grade outside slope of west berm.			
<u>Contractor haulers transported clay liner material to manhole location in north berm and structural fill</u> material to the top of the porth berm			
<u>Material to the top of the north berm.</u> Contractor excavator loaded clay liner and structural fill material into haulers from borrow area			
<u>Contractor excavator loaded clay liner and structural nil material into nadiers from borrow area.</u>			
Contractor water truck ran, wetting material before and during compaction.			
Contractor sheeps foot reconditioned placed material and compacted clay liner material that was placed			
around manhole.			
ESI deployed geocomposite at south end of cell.			
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS: Completed lift thirteen, fourteen, fifteen, and sixteen.			
COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing			
compaction. Contractor smooth drum created testing pads.			
Extreme heat advisory for the day			
LATERIE REAL AUVISOLY FOR THE MAY.			
Note: Copies of all completed "Project Field Record Forms" are to be sub	bmitted to the Project Manager at the end		
	-		



	Daily F	Project	Construction	Summary
--	---------	---------	--------------	---------

Daily Project Construction Summary	25809 Interstate 30 South		
Project No: <u>35177127</u>	Bryant, AR 72022 (501) 847-9292		
Client Name American Flectric Power	WFATHER.		
Contractor: SFC. / FSI	x Clear Cold		
Project Name: Turk Cell 2	\square Cloudy \square Cool		
Location: Fulton, AR	Partly Cloudy X Warm		
Representative: Greg Witte	Raining X Hot		
Technician: Matt Acree/Scott McDonald	Windy 77°F Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty 103°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:15 AM Depart Site: 5:00 PM	X Moisture/Density X Subgrade		
Arrive Site: 6:45 AM Arrive Lab: 7:00 PM	Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE: PERSONNEL ONSITE:			
3 Dozer(s) 1 Skyjack	2 Client 15 Liner Crew		
2 Excavator(s) 1 Skidsteer	14 Contractor Liner Installer		
Backhoe(s) 1 Water Truck	2 CQA Consultant Concrete Crew		
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer		
1 Motor Grader(s) 1 Smooth Drum Compactor	<u> </u>		
Observe placement of structural fill and to perform density tests.	Observe deployment of geocomposite.		
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor dozers spread structural material in manhole area in r	north berm, spread structural fill material on		
top of north berm, and grade outside slope of west berm.			
Contractor haulers transported structural fill material to manhole	e location in north berm and to the top of		
the north berm.			
Contractor excavator loaded structural fill material into haulers fr	<u>om borrow area.</u>		
Contractor water truck ran, wetting material before and during co	ompaction.		
Contractor sheeps foot reconditioned placed material and compa	acted structural fill material that was placed		
in the north berm area.			

Liner crew deployed geocomposite at south end of cell.

LIFTS WORKED AND COMPACTION EFFORTS:

LIFTS: Completed lift seventeen, eighteen, nineteen, twenty, and twenty-one in the manhole area and lift 13 on the north berm/west side.

COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing compaction. Contractor smooth drum created testing pads.

OPERATIONAL CONCERNS & SOLUTIONS: Extreme heat advisory for the day.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South Bryant AP 72022
Project No:35177127Date of Report:7/23/2018Client Name:American Electric PowerContractor:SFC / ESIProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt Acree/Scott McDonaldTest Location:Cell 2	WEATHER: X Clear Cloudy Cool Partly Cloudy X Raining X Windy 73°F Foggy / Misty 96°F FIELD TESTING PERFORMED:
Depart Lab:6:15 AMDepart Site:5:00 PMArrive Site:6:45 AMArrive Lab:7:00 PM	XMoisture/DensitySubgradeXShelby Tube(s)XClay Liner
EQUIPMENT ONSITE:3Dozer(s)1Skyjack2Excavator(s)1SkidsteerBackhoe(s)1Water Truck4Haul Truck(s)1Sheeps Foot Compactor1Motor Grader(s)1Smooth Drum Compactor	PERSONNEL ONSITE:2Client1514ContractorLiner Installer2CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.
Observe placement of structural fill/clay liner and to perform de SUMMARY OF ACTIVITIES OBSERVED: Contractor dozers spread clay liner material on inside slopes of n berm. Contractor haulers transported clay liner material to inside of no	nsity tests. north and west berm and trim outside south orth berm.
Contractor excavator loaded clay liner material into haulers from	compaction.
Contractor sheeps foot reconditioned placed material and comp around manhole. Liner crew deployed geocomposite in middle section of cell floor south berm. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift one and two on inside of north and west be	acted clay liner material that was placed r and began placing versacap along outside of erm.
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads.	m of four passes to bring material to passing
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be sub	pmitted to the Project Manager at the end



Dail	v Pro	iect	Construction	Summary

Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 7/24/2018	Bryant, AR 72022 (501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC / ESI	x Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree/Scott McDonald	Windy 69°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 94°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 4:45 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	x Shelby Tube(s) x Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Skyjack	2 Client 15 Liner Crew
2 Excavator(s) 1 Skidsteer	<u>14</u> Contractor Liner Installer
Backhoe(s) 1 Water Truck	2 CQA Consultant Concrete Crew
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
<u>1</u> Motor Grader(s) <u>1</u> Smooth Drum Compactor	Gas Line Inst.
SUMMARY OF ACTIVITIES OBSERVED: <u>Contractor dozers spread clay liner material on inside slopes of n</u> <u>material in north manhole area, and trim outside south berm.</u> <u>Contractor haulers transported clay liner material to inside of no</u> <u>manhole area of north berm.</u> <u>Contractor excavator loaded clay liner material and structural fill</u>	north and west berm, spread structural fill orth berm and structural fill material to I material into haulers from borrow area.
Contractor water truck ran, wetting material before and during o	compaction.
Contractor sheeps foot reconditioned placed material and comparound manhole.	pacted clay liner material that was placed
Liner crew deployed versacap along outside of south berm.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift two and three on inside of north and west l	berm and lift 22 in the north manhole area.
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift two and three on inside of north and west l COMPACTION EFFORTS: Contractor sheeps foot made a minimu	berm and lift 22 in the north manhole area. Im of four passes to bring material to passing
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift two and three on inside of north and west I COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads.	berm and lift 22 in the north manhole area. Im of four passes to bring material to passing
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift two and three on inside of north and west I COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads. OPERATIONAL CONCERNS & SOLUTIONS:	berm and lift 22 in the north manhole area. Im of four passes to bring material to passing
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift two and three on inside of north and west I COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Contractor smooth drum created testing pads. OPERATIONAL CONCERNS & SOLUTIONS:	berm and lift 22 in the north manhole area. Im of four passes to bring material to passing

of each day and should be maintained with the Project Reco
--



ferracon
25809 Interstate 30 South
Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 7/25/2018	
	WEATHER:
Contractor: SFC	
Project Name: Turk Cell 2	
Location: Fulton, AR	X Partly Cloudy X Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy <u>69°F</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>99°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:00 PM	X Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 7:00 PM	Shelby Tube(s) X Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Skyjack	2 Client Liner Crew
2 Excavator(s) 1 Skidsteer	14 Contractor Liner Installer
Backhoe(s) 1 Water Truck	2 COA Consultant Concrete Crew
4 Haul Truck(s) 1 Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst
QA/QC EXPECTATIONS:	
Observe placement of structural fill/clay liner and to perform d	ensity tests.
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor dozers spread clay liner material on inside slopes of	north and west berm and in manhole area.
Contractor baulers transported clay liner material to inside of n	oorth and west berm and to manhole area of
north berm	
Contractor excavator loaded clay liner material into haulers fro	m borrow area
Contractor water truck ran, wetting material before and during	compaction.
Contractor shoops foot reconditioned placed material and com	nacted clay liner material that was placed
around manhole	pacieu ciay inter material triat was placeu
Contractor began filling in anchor trench system in six-inch lifts	and compacting with trench packer
	and compacting with trench packet.
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed lift four on inside of north and west berm and	d lift 23, 24, 25, and 26 in the north manhole
area.	
COMPACTION EFFORTS: Contractor sheeps foot made a minim	um of four passes to bring material to passing
compaction. Contractor smooth drum created testing pads.	
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end
of each day and should be maintained with the Project Records.	



Daily	Pro	ject	Construction	Summary
-------	-----	------	--------------	---------

Ferracon
25809 Interstate 30 South
Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 7/26/2018	
	WEATHER:
Contractor: SFC	
Project Name: Turk Cell 2	
Location: Fullon, AR	X Partiy Cloudy X Warm
Representative: Greg Wille	
Technician: Mail Acree	Vindy 76 F Low Temp. (*F)
Test Location: Cell 2	IDU Foggy / Misty IDU High Temp. (*F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 4:45 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner
3 Dozer(s) Skylack	2 Client Liner Crew
$\frac{3}{2}$ Excavator(s) $\frac{1}{1}$ Skidsteer	14 Contractor
Backhoe(s) 1 Water Truck	2 COA Consultant Concrete Crew
A Haul Truck(s) 2 Sheens Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst
Observe placement of structural fill/clay liner and to perform de	ansity tasts
Observe placement of structural millionaly liner and to perform de	ensity tests.
SOMMART OF ACTIVITIES OBSERVED.	
Contractor dozers spread clay liner material on inside slopes of r	north and west berm and in manhole area.
Contractor dozers spread clay liner material on inside slopes of r Also graded cell floor and east berm and removed ramp from th	north and west berm and in manhole area. hat area.
<u>Contractor dozers spread clay liner material on inside slopes of n</u> <u>Also graded cell floor and east berm and removed ramp from th</u> <u>Contractor haulers transported clay liner material to inside of no</u>	north and west berm and in manhole area. hat area. orth and west berm and to manhole area of
Contractor dozers spread clay liner material on inside slopes of r Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm.	north and west berm and in manhole area. nat area. orth and west berm and to manhole area of
Contractor dozers spread clay liner material on inside slopes of n Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers from	north and west berm and in manhole area. hat area. orth and west berm and to manhole area of m borrow area.
Contractor dozers spread clay liner material on inside slopes of r Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers from	north and west berm and in manhole area. <u>nat area.</u> orth and west berm and to manhole area of <u>m borrow area.</u>
Contractor dozers spread clay liner material on inside slopes of r Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers from Contractor water truck ran, wetting material before and during a	north and west berm and in manhole area. <u>nat area.</u> orth and west berm and to manhole area of <u>m borrow area.</u> <u>compaction.</u>
Contractor water truck ran, wetting material before and during a contractor speep foot reconditioned placed material and commended contractor speeps foot reconditioned placed material and commended commende	north and west berm and in manhole area. <u>nat area.</u> orth and west berm and to manhole area of <u>m borrow area.</u> <u>compaction.</u>
Contractor dozers spread clay liner material on inside slopes of respective to the state of	north and west berm and in manhole area. nat area. orth and west berm and to manhole area of m borrow area. compaction. pacted clay liner material that was placed
Contractor dozers spread clay liner material on inside slopes of r Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers from Contractor water truck ran, wetting material before and during Contractor sheeps foot reconditioned placed material and comparound manhole.	north and west berm and in manhole area. <u>nat area.</u> orth and west berm and to manhole area of <u>m borrow area.</u> <u>compaction.</u> pacted clay liner material that was placed
Contractor dozers spread clay liner material on inside slopes of respective to the structure of the structure o	north and west berm and in manhole area. <u>nat area.</u> <u>orth and west berm and to manhole area of</u> <u>m borrow area.</u> <u>compaction.</u> pacted clay liner material that was placed
Contractor dozers spread clay liner material on inside slopes of r Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers from Contractor water truck ran, wetting material before and during Contractor sheeps foot reconditioned placed material and comparound manhole. LIFTS WORKED AND COMPACTION EFFORTS:	north and west berm and in manhole area. <u>nat area.</u> orth and west berm and to manhole area of <u>m borrow area.</u> <u>compaction.</u> pacted clay liner material that was placed
Contractor dozers spread clay liner material on inside slopes of r Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers from Contractor water truck ran, wetting material before and during r Contractor sheeps foot reconditioned placed material and comparound manhole. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 18 and 27 in manhole area and lifts one an	north and west berm and in manhole area. <u>nat area.</u> <u>orth and west berm and to manhole area of</u> <u>m borrow area.</u> <u>compaction.</u> pacted clay liner material that was placed <u>m two on north section of west berm as well</u>
Contractor dozers spread clay liner material on inside slopes of respective to the strain of the	north and west berm and in manhole area. orth and west berm and to manhole area of m borrow area. compaction. pacted clay liner material that was placed m d two on north section of west berm as well
Contractor dozers spread clay liner material on inside slopes of r Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers from Contractor water truck ran, wetting material before and during around manhole. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 18 and 27 in manhole area and lifts one an as overbuild on outside. COMPACTION EFFORTS: COMPACTION EFFORTS:	north and west berm and in manhole area. <u>nat area.</u> orth and west berm and to manhole area of <u>m borrow area.</u> <u>compaction.</u> pacted clay liner material that was placed nd two on north section of west berm as well um of four passes to bring material to passing
Contractor dozers spread clay liner material on inside slopes of respective to the strain of the	north and west berm and in manhole area. orth and west berm and to manhole area of m borrow area. compaction. pacted clay liner material that was placed nd two on north section of west berm as well um of four passes to bring material to passing
Solution Contractor Activities Observed: Contractor dozers spread clay liner material on inside slopes of response of the strength of the strengt of the strength of the strength of the stren	north and west berm and in manhole area. orth and west berm and to manhole area of m borrow area. compaction. pacted clay liner material that was placed nd two on north section of west berm as well um of four passes to bring material to passing
Contractor dozers spread clay liner material on inside slopes of respective to the spread clay liner material on inside slopes of respective to the spread clay liner material to inside of not north berm. Contractor haulers transported clay liner material to inside of not north berm. Contractor excavator loaded clay liner material into haulers from the contractor water truck ran, wetting material before and during the contractor sheeps foot reconditioned placed material and comparound manhole. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 18 and 27 in manhole area and lifts one an as overbuild on outside. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS:	north and west berm and in manhole area. orth and west berm and to manhole area of m borrow area. compaction. pacted clay liner material that was placed nd two on north section of west berm as well um of four passes to bring material to passing
Sommary of Activities observed. Contractor dozers spread clay liner material on inside slopes of it Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers fror Contractor water truck ran, wetting material before and during a Contractor sheeps foot reconditioned placed material and comparound manhole. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 18 and 27 in manhole area and lifts one an as overbuild on outside. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS:	north and west berm and in manhole area. orth and west berm and to manhole area of m borrow area. compaction. pacted clay liner material that was placed nd two on north section of west berm as well um of four passes to bring material to passing
Sommary of Activities observed. Contractor dozers spread clay liner material on inside slopes of it Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers from Contractor excavator loaded clay liner material before and during it Contractor water truck ran, wetting material before and during it Contractor sheeps foot reconditioned placed material and comparound manhole. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 18 and 27 in manhole area and lifts one an as overbuild on outside. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS:	north and west berm and in manhole area. orth and west berm and to manhole area of m borrow area. compaction. pacted clay liner material that was placed nd two on north section of west berm as well um of four passes to bring material to passing
Solume of Activities observed. Contractor dozers spread clay liner material on inside slopes of it Also graded cell floor and east berm and removed ramp from th Contractor haulers transported clay liner material to inside of no north berm. Contractor excavator loaded clay liner material into haulers from Contractor excavator loaded clay liner material before and during it Contractor water truck ran, wetting material before and during it Contractor sheeps foot reconditioned placed material and comparound manhole. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Completed lift 18 and 27 in manhole area and lifts one an as overbuild on outside. COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS:	north and west berm and in manhole area. orth and west berm and to manhole area of m borrow area. compaction. pacted clay liner material that was placed nd two on north section of west berm as well um of four passes to bring material to passing



	Daily Pro	ject	Construction	Summary
--	-----------	------	--------------	---------

1[erracon
25809 Interstate 30 South
Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292
Date of Report: //2//2018 Client Name: American Electric Power	WEATHER
Contractor: SEC / ESI	
Project Name: Turk Cell 2	
Location: Fulton AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy 77°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 94°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 4:45 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3 Dozer(s) Skyjack	2 Client Liner Crew
2 Excavator(s) 1 Skidsteer	14ContractorLiner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
4 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer
<u>1</u> Motor Grader(s) Smooth Drum Compactor	Gas Line Inst.
OA/OC EXPECTATIONS:	
Observe placement of structural fill/clay liner and to perform de	ensity tests.
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor dozers spread clay liner material in manhole area, on	n top of west berm, and the overbuild area.
Also graded cell floor	
Contractor haulers transported clay liner material to west berm	and to manhole area of north berm.
Contractor excavator loaded clay liner material into haulers from	n borrow area.
Contractor water truck ran, wetting material before and during of	compaction.
Contractor sheeps foot reconditioned placed material and comp	pacted clay liner material that was placed
around manhole.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed lift 28, 29, and 30 in manhole area and lifts thr	ree and four on north section of west berm as
well as overbuild on outside.	
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	Im of four passes to bring material to passing
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	um of four passes to bring material to passing
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	um of four passes to bring material to passing
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	um of four passes to bring material to passing
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction.	um of four passes to bring material to passing
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be sub	um of four passes to bring material to passing



Dany i roject construction cummary	Bryant, AR 72022		
Project No: <u>35177127</u>	(501) 847-9292		
Date of Report: 7/28/2018	r		
Client Name: American Electric Power	WEATHER:		
Contractor: SFC / ESI	Clear Cold		
Project Name: Turk Cell 2	x Cloudy x Cool		
Location: Fulton, AR	x Partly Cloudy x Warm		
Representative: Greg Witte	Raining Hot		
Technician: Matt Acree	Windy <u>77°F</u> Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty 94°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:15 AM Depart Site: 5:15 PM	X Moisture/Density Subgrade		
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s) X Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
3 Dozer(s) 1 Skyjack	1 Client Liner Crew		
2 Excavator(s) 1 Skidsteer	13 Contractor Liner Installer		
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew		
4 Haul Truck(s) 2 Sheeps Foot Compactor	Design Engineer Pipe Installer		
1 Motor Grader(s) 1 Smooth Drum Compactor	1 Surveyor Gas Line Inst.		
Observe placement of clay at north berm and test it as well as of	serve filling in of anchor trench		
observe placement of elay at north bern and test it as well as or	serve ming in or anenor trenen.		
SulviviARY OF ACTIVITIES OBSERVED:			
<u>Contractor dozers spread clay liner material in mannole area. Also graded cell floor and inside of north and</u>			
Contractor baulars transported clay liner material to manhole ar	ea of north herm		
<u>contractor natiers transported clay liner material to manhole area of north berm.</u>			
Contractor excavator loaded clay liner material into haulers from borrow area and an extra that had been			
graded off the cell floor and slopes.			
Contractor water truck ran, wetting material before and during compaction.			

Contractor sheeps foot reconditioned placed material and compacted clay liner material.

LIFTS WORKED AND COMPACTION EFFORTS:

LIFTS: Completed lift 31 in the north berm/manhole area. Completed first lift on south anchor trench and began the second lift.

COMPACTION EFFORTS: Contractor sheeps foot made a minimum of four passes to bring material to passing compaction. Trench packer made three passes over material in anchor trench to compact.

OPERATIONAL CONCERNS & SOLUTIONS:

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily	/ Pro	ject (Construction	Summary
-------	-------	--------	--------------	---------

Daily Project Construction Summary	25809 Interstate 30 South Bryant AP 72022
Project No:35177127Date of Report:7/29/2018Client Name:American Electric Power	(501) 847-9292 WEATHER:
Contractor:SFC / ESIProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	Clear Cold X Cloudy Cool X Partly Cloudy X X Raining X Windy 72°F Low Temp. (°F) Foggy / Misty 91°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:4:45 AMDepart Site:1:00 PMArrive Site:6:30 AMArrive Lab:3:00 PM	 Moisture/Density Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
3Dozer(s)1Skyjack2Excavator(s)1SkidsteerBackhoe(s)1Water Truck4Haul Truck(s)1Sheeps Foot Compactor1Motor Grader(s)1Smooth Drum Compactor	1ClientLiner Crew12ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.
QA/QC EXPECTATIONS:	
Observe grading of clay liner on west slope of west berm. SUMMARY OF ACTIVITIES OBSERVED: Contractor dozers graded west cell floor, west berm, and west s	lope of west berm.
Contractor haulers transported clay liner material to north end of	of cell and to south end to stockpile for
anchor trench.	
<u>Contractor excavator loaded clay liner material into haulers from</u>	n borrow area and helped with the anchor
Contractor water truck ran, wetting material before and during of	compaction.
Contractor sheeps foot reconditioned placed material and comp	acted clay liner material
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Completed lifts two and began work on lift three of the ar	nchor trench at the south end.
COMPACTION EFFORTS: Contractor sheeps foot made a minimu compaction. Trench packer ran over material placed in anchor tr	Im of four passes to bring material to passing rench to hold liner.
OPERATIONAL CONCERNS & SOLUTIONS: Rain in mid-afternoon call off work.	
Note: Copies of all completed "Project Field Record Forms" are to be sub of each day and should be maintained with the Project Records.	omitted to the Project Manager at the end


Daily	/ Pro	ject	Construction	Summary

٦	[erracon [_]
	25809 Interstate 30 South
	Bryant AR 72022

Project No: <u>35177127</u>	(501) 847-9292				
Date of Report: 7/30/2018					
Client Name: American Electric Power	WEATHER:				
Contractor: SFC / ESI					
Project Name: Turk Cell 2	L Cloudy Cool				
Location: Fulton, AR	x Partly Cloudy x Warm				
Representative: Greg Witte	x Raining x Hot				
Technician: Matt Acree	Windy 70°F Low Temp. (°F)				
Test Location: Cell 2	xFoggy / Misty83°FHigh Temp. (°F)				
REPORTING TIMES:	FIELD TESTING PERFORMED:				
Depart Lab: 4:45 AM Depart Site: 10:15 AM	Moisture/Density Subgrade				
Arrive Site: 6:30 AM Arrive Lab: 12:15 AM	Shelby Tube(s) Clay Liner				
EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
3 Dozer(s) Skviack	2 Client Liner Crew				
1 Excavator(s) Skidsteer	12 Contractor				
Backboe(s) 1 Water Truck	1 COA Consultant Concrete Crew				
2 Haul Truck(s) 1 Shoops Foot Compactor					
	1 Survoyor Cas Line Inst				
QA/QC EXPECTATIONS:					
Observe grading of cell floor to prepare for certification.					
SUMMARY OF ACTIVITIES OBSERVED:					
Contractor dozers graded the west slope of the west berm.					
Contractor excavator provided balance to trench packer and help	ped spread material inside anchor trench.				
Contractor sheeps foot reconditioned placed material.					
LIFTS: Continued placing lift three in the south anchor trench					
COMPACTION EFFORTS: Contractor sheeps foot made a minimu	m of four passes to bring material to passing				
compaction. Trench packer ran along south anchor to compact n	naterial at a minimum of two passes.				
OPERATIONAL CONCERNS & SOLUTIONS:					
Rain-out at 10:00 AM					
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end				



|--|

1[erracon ⁻
25809 Interstate 30 South
Bryant, AR 72022

Date of Report American Electric Power WEATHER: Contractor: SFC / ESI Cold Project Name: Turk Cell 2 Cold Location: Fulton, AR Parity Cloudy Warm Representative: Greg Witte Parity Cloudy Warm Technician: Matt Acree Parity Cloudy Warm Test Location: Cell 2 Parity Cloudy Subgrade Depart Lab: 5:00 AM Depart Site: 5:00 PM Arrive Site: 7:00 AM Arrive Lab: 6:45 PM Courscion: EQUIPMENT ONSITE: 2 Clent Liner Crew 2 Dozer(s) Skigker 1 Skidsteer 2 Contractor Liner Crew 3 Contractor Sheps Foot Compactor 1 Scavatot(s) Sheps Foot Compactor 2 Streyor 1 Motor Grader(s) Smooth Drum Compactor 1 Surveyor Gas Line Inst. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material. Tom south berm and loaded into haulers. Contractor haulers transported structural fill material from south berm to overburden pile. Contractor haulers transp	Project No: <u>35177127</u>	(501) 847-9292				
Output Nume: The Address of the Add	Client Name: American Electric Power	WEATHED.				
Contractor Contractor Contractor Contractor Project Name: Turk Cell 2 Cloudy Cool Location: Fullon, AR Representative: Cool Representative: Greg Witte Raining Hot Technician: Matt Acree Windy S4"F Low Temp. (*f) Test Location: Cell 2 Windy S4"F Low Temp. (*f) Peperit lab: 5:00 PM Arrive Lab: 6:45 PM EQUIPMENT ONSITE: Concrete Crew Concrete Crew 1 Excavator(s) 1 Skidsteer 2 Backhoc(s) Water Truck Concrete Crew 2 Backhoc(s) Strops Foot Compactor 1 1 Motor Grader(s) Smooth Drum Compactor 1 2 Surveyor Gas Line Inst. 2 Contractor excavator dug a thrench to lay the water pipe in during welding. Also gathered scraped material. from south berm and loaded into haulers. Contractor excavator dug a thrench of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS UPERATIONAL CONCERNS & SOLUTIONS: PU						
Project Name: Full ton, AR Representative: Grag Wittle Technician: Malt Acree Technician: Malt Acree Test Location: Cell 2 Depart Lab: 5:00 AM Depart Lab: 5:00 AM Arrive Site: 7:00 AM Arrive Lab: 6:45 PM EDUIPMENT ONSITE: EDDEr(s) Backboc(s) Matter Backboc(s) Water Truck And Truck(s) Shejsch Depart Lab: 5:00 AM Approximation Skijack 1 Excavator(s) 1 Skijack 2 Dazer(s) Aktisteer Backboc(s) Backboc(s) Water Truck 2 Haul Truck(s) Sheeps Foot Compactor 1 Doserve reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor accavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor dozer scraped outside of south berm to grade in preparation for verscaap. <	Drojost Namo: Turk Coll 2					
Doctor: Collocity AC Representative: Greg Witte Technician: Matt Acree Technician: Matt Acree Coll 2 Foggy Misty Berpresentative: Greg Witte Depart Lab: 5:00 AM Depart Lab: 5:00 AM Arrive Site: 7:00 AM Arrive Lab: 5:00 AM Depart Lab: 5:00 AM Arrive Site: 7:00 AM	Location: Fulton AP	V Partly Cloudy V Warm				
Representative: Graphical Contractor Matt Acree Indition: Matt Acree Windy 64°E Low Temp. (*) Reporting TIMES: Field Depart Site: 5:00 PM Starting Site: Starting Site: Depart Lab: 5:00 AM Depart Site: 5:00 PM Molsture/Density Subgrade EQUIPMENT ONSITE: PERSONNEL ONSITE: Claim Liner Crew 2 Claim Concrete Crew Backhoe(s) Water Truck Sheps Foot Compactor 1 Skidsteer 2 Claim Concrete Crew Design Engineer Pipe Installer DAVOE EXPECTATIONS: OVACE EXPECTATIONS: Object Creater Concrete Crew Design Engineer Pipe Installer SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material. from south berm and loaded into haulers. Contractor haulers transported structural fill material from south berm to overburden pile. Contractor Activities of Subject Creaters Easthached It via fusion welding. Pressure tested for leaks. Realtached electrical conduit as well. Contractor haulers transported structural fill material from south berm to overburden pile. Contractor haulers transported structural fill material from south berm to overburden pile. UIFTS WORKED AND COMPACTION EFFOR	Poprosontativo: Greg Witte					
Text Indati. OH T Convergence Test Location: Cell 2 PepoRTING TIMES: FIELD TESTING PERFORMED: Depart Lat: 5:00 AM Arrive Site: 7:00 AM Arrive Lab: 6:45 PM PECONTING TIMES: Moisture/Density Subgrad Skigster Arrive Site: 7:00 AM Arrive Lab: 6:45 PM PECONTING TONSITE: PERSONNEL ONSITE: 2 Dozer(s) Skigster 3 Contractor Liner Installer 1 Excavator(s) 1 Skidsteer Backhobe(s) Water Truck 2 Haul Truck(s) Sheeps Foot Compactor 1 Motor Grader(s) Smooth Drum Compactor OA/QC EXPECTATIONS: Design Engineer Observe reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for Ieass. Reattached electrical conduit as well. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for Ieass. Reattached electrical conduit as well. Contractor laborers placed pipe in sha	Technician: Matt Acros	$\square Windy \qquad \qquad 64^{\circ}E Low Tomp (^{\circ}E)$				
REPORTING TIMES:		$\Box Windy \qquad \frac{04}{F} E \text{ tow remp. (F)}$				
REPORTING TIMES:						
Depart Lab: 5:00 PM Arrive Site: 7:00 AM Arrive Lab: 6:45 PM Moisture/Density Subgrade ECULPMENT ONSITE:	REPORTING TIMES:	FIELD TESTING PERFORMED:				
Arrive Site: 7:00 AM Arrive Lab: <u>6:45 PM</u> Clay Liner EQUIPMENT ONSITE: PERSONNEL ONSITE: PERSONNEL ONSITE: Liner Installer <u>1</u> Excavator(s) <u>1</u> Skidsteer Liner Installer Backhoe(s) Water Truck <u>2</u> Client Liner Installer <u>1</u> Motor Grader(s) Sheeps Foot Compactor Design Engineer Pipe Installer <u>1</u> Motor Grader(s) Smooth Drum Compactor Design Engineer Pipe Installer <u>1</u> Motor Grader(s) Smooth Drum Compactor <u>1</u> Surveyor Gas Line Inst. OA/OC EXPECTATIONS: Observe reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS UNTRACONCERNS & SOLUTION EFFORTS: Eleander burst. Cleaned spilled fluid and replaced hose to continue working. <tr< td=""><td>Depart Lab: 5:00 AM Depart Site: 5:00 PM</td><td>Moisture/Density Subgrade</td></tr<>	Depart Lab: 5:00 AM Depart Site: 5:00 PM	Moisture/Density Subgrade				
EQUIPMENT ONSITE:	Arrive Site: 7:00 AM Arrive Lab: 6:45 PM	Shelby Tube(s) Clay Liner				
2 Dozer(s) Skyjack 1 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck Contractor Liner Installer 1 Motor Grader(s) Smooth Drum Compactor COA Consultant Concrete Crew 0 Design Engineer Pipe Installer 1 Surveyor Gas Line Inst. 0 OA/OC EXPECTATIONS: Observe reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor haulers transported structural fill material from south berm to overburden pile.	EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
1 Excavator(s) 1 Skidsteer Liner Installer 2 Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer 1 Motor Grader(s) Smooth Drum Compactor Design Engineer Pipe Installer 0A/OC EXPECTATIONS: Observe reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor haulers transported structural fill material from south berm to overburden pile. UIFTS COMPACTION EFFORTS: UIFTS: COMPACTION EFFORTS: UIFTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	2 Dozer(s) Skyjack	2 Client Liner Crew				
Backhoe(s) Water Truck 2 Haul Truck(s) Sheeps Foot Compactor 1 Motor Grader(s) Smooth Drum Compactor 0A/OC EXPECTATIONS: Doserve reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OMPACTION EFFORTS: Deferational concerns & solutions: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working.	1 Excavator(s) 1 Skidsteer	13ContractorLiner Installer				
2 Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer 1 Motor Grader(s) Smooth Drum Compactor Image: Compactor Gas Line Inst. OA/OC EXPECTATIONS: Design Engineer Gas Line Inst. OA/OC EXPECTATIONS: Gas Line Inst. OA/OC EXPECTATIONS: Contractor exattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew				
1 Motor Grader(s) Smooth Drum Compactor 1 Surveyor Gas Line Inst. QA/QC EXPECTATIONS: Dbserve reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS UIFTS: COMPACTION EFFORTS: DPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer				
QA/QC EXPECTATIONS: Observe reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: DPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	1 Motor Grader(s) Smooth Drum Compactor	1SurveyorGas Line Inst.				
QA/QC EXPECTATIONS: Observe reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end						
Observe reattachment of water pipe and electrical conduit in north berm and possibly observe and test backfil SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	QA/QC EXPECTATIONS:					
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Observe reattachment of water pipe and electrical conduit in no	orth berm and possibly observe and test backfil				
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material. from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end						
Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material. from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	SUMMARY OF ACTIVITIES OBSERVED:					
from south berm and loaded into haulers. Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Contractor excavator dug a trench to lay the water pipe in during welding. Also gathered scraped material					
Contractor laborers placed pipe in shallow trench and reattached it via fusion welding. Pressure tested for leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. Contractor haulers transported structural fill material from south berm to overburden pile. Image: Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: Image: Compact field structural fill material from south berm to overburden pile. COMPACTION EFFORTS: Image: Compact field Record Forms" are to be submitted to the Project Manager at the end Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	from south berm and loaded into haulers.	· · · · · · · · · · · · · · · · · · ·				
leaks. Reattached electrical conduit as well. Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Contractor laborers placed pipe in shallow trench and reattache	ed it via fusion welding. Pressure tested for				
Contractor dozer scraped outside of south berm to grade in preparation for versacap. Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	leaks. Reattached electrical conduit as well.	-				
Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Contractor dozer scraped outside of south berm to grade in preparation for versacap.					
Contractor haulers transported structural fill material from south berm to overburden pile. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end						
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Contractor haulers transported structural fill material from south berm to overburden pile.					
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end						
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end						
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end						
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end						
LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	LIFTS WORKED AND COMPACTION EFFORTS:					
COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	LIETS:					
COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end						
OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	COMPACTION EFFORTS:					
OPERATIONAL CONCERNS & SOLUTIONS: Hydraulic line on welder burst. Cleaned spilled fluid and replaced hose to continue working. Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end						
Hydraulic line on weider burst. Cleaned spilled fluid and replaced nose to continue working.	OPERATIONAL CONCERNS & SOLUTIONS:					
Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Hydraulic line on weider burst. Cleaned spilled fluid and replaced	<u>a nose lo continue working.</u>				
note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Note Control of all complete d "Decision Field D					
of each day and should be maintained with the Project Pecerds	Note: copies of all completed "Project Field Record Forms" are to be sul	DMILLED TO THE PROJECT Manager at the end				



Daily	/ Pro	ject	Construction	Summary
	-			

llorraron
25809 Interstate 30 South
Bryant AR 72022

Project No: <u>35177127</u>	(501) 847-9292				
Client Name: Amorican Electric Power					
	WEATHER.				
Dreiget Name: Turk Coll 2					
	Cloudy X Cool Norm				
Location: Fullon, AR					
Technician: Matt Acree	Windy 04 F Low Temp. (F) D Forget (Micty				
	Foggy / Misty <u>91 F</u> High Temp. (F)				
REPORTING TIMES:	FIELD TESTING PERFORMED:				
Depart Lab: 5:00 AM Depart Site: 5:00 PM	Moisture/Density Subgrade				
Arrive Site: 7:00 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner				
EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
2 Dozer(s) Skyjack	2 Client Liner Crew				
1 Excavator(s) 1 Skidsteer	13 Contractor Liner Installer				
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew				
2 Haul Truck(s) Sheeps Foot Compactor	1 Design Engineer Pipe Installer				
1 Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.				
QA/QC EXPECTATIONS:					
Observe reattachment of water pipe and electrical conduit in no	orth berm and possibly observe and test backfil				
SUMMARY OF ACTIVITIES OBSERVED:					
Contractor excavator backfilled water pipe trench with clay liner	material and compacted it. Also gathered				
scraped material from south berm and loaded into haulers. Also	began cutting anchor trench along top of				
north berm.					
Contractor dozer scraped outside of south berm to grade in preparation for versacap.					
Contractor haulers transported structural fill material from south berm to overburden pile.					
Smooth drum went over cell floor to prepare for liner placement.					
Water truck ran, reconditioning clay liner material.					
LIFTS WORKED AND COMPACTION EFFORTS:					
LIFTS: Backfilled trench for water pipe.					
COMPACTION EEEOPTS: To reduce possibility of crushing lines	material was proceed with every ater bucket				
COMPACTION EFFORTS. TO reduce possibility of crushing lines, i	material was pressed with excavator bucket.				
OPERATIONAL CONCERNS & SOLUTIONS:					
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end				



Daily Project Construction Summary	25809 Interstate 30 South				
Project No: <u>35177127</u> Date of Report: 8/3/2018	вгуапт, АК 72022 (501) 847-9292				
Client Name:American Electric PowerContractor:SFC / ESIProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: X Clear Cold Cloudy X Cool Partly Cloudy X Warm Raining X Hot Windy 65°F Low Temp. (°F) Foggy / Misty 92°F High Temp. (°F)				
REPORTING TIMES:	FIELD TESTING PERFORMED:				
Depart Lab:6:15 AMDepart Site:5:15 PMArrive Site:6:45 AMArrive Lab:7:00 PM	Image: Moisture/Density Image: Subgrade Image: Moisture/Density Image: Subgrade Image: Shelby Tube(s) Image: Clay Liner				
EQUIPMENT ONSITE: PERSONNEL ONSITE: 1 Dozer(s) Skyjack 1 Excavator(s) 2 Backhoe(s) Water Truck 1 Haul Truck(s) 0 Motor Grader(s)					
Observe ESI deploy remaining geomembrane on north end of c SUMMARY OF ACTIVITIES OBSERVED: ESI deployed and welded together geomembrane panels SFC cleared cell floor in preparation for geomembrane deploym smooth drum. SFC continued to work on south berm, preparing road.	nent. Rolled as much as they could with				
LIFTS WORKED AND COMPACTION EFFORTS:					
COMPACTION EFFORTS:					
OPERATIONAL CONCERNS & SOLUTIONS:					
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end				



Daily	/ Pro	ject	Construction	Summary
	-			

25809 Interstate 30 South Bryant, AR 72022

Project No: <u>35177127</u>	(501) 847-9292				
Client Name: American Floctric Dower					
Location: Fulton, AR	X Partly Cloudy X Warm				
Representative: Greg Witte	Raining X Hot				
Technician: Matt Acree	Windy <u>71°F</u> Low Temp. (°F)				
Test Location: Cell 2	Foggy / Misty <u>96°F</u> High Temp. (°F)				
REPORTING TIMES:	FIELD TESTING PERFORMED:				
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade				
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner				
EQUIPMENT ONSITE:	PERSONNEL ONSITE:				
1 Dozer(s) 1 Skviack	2 Client 15 Liner Crew				
$\frac{1}{1} \text{Evcavator(s)} = \frac{1}{2} \text{Skidstor}$	2 Contractor Liner Installer				
Packboo(s) Water Truck	1 COA Consultant Concrete Crew				
Leul Truck(c) Shoops Foot Compostor					
Haur Truck(s) Sneeps Foot Compactor					
INIOTOR Grader(s) Smooth Drum Compactor	Gas Line Inst.				
OA/OC EXPECTATIONS					
Observe ESI make renairs to geomembrane and begin deploying	geocomposite				
Observe Lor make repairs to geomembrane and begin deploying	<u>geocomposite.</u>				
SUMMARY OF ACTIVITIES OBSERVED:					
ESI extrusion welded repairs into geomembrane using extrusion welds.					
ESI began deploying geocomposite on north end of cell, pulling out rolls with kubota side-by-side and then					
stitching and zip-tying together.					
SFC began backfilling north anchor trench with skidsteer.					
·					
LIFTS WORKED AND COMPACTION EFFORTS:					
LIFTS: First lift of north anchor trench					
COMPACTION FEFORTS: No compaction on anchor trench lift at this time					
som Aonora En okto. No compaction on anchor a chornint at this time.					
Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end					



Daily Project Construction Summarv	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 8/5/2018	Bryant, AR 72022 (501) 847-9292
Date of Report: 87572018 Client Name: American Electric Power Contractor: SFC / ESI Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Matt Acree Test Location: Cell 2 REPORTING TIMES: Depart Site: Depart Lab: 6:15 AM Depart Site: Arrive Site: 6:45 AM Arrive Lab: TeculipMENT ONSITE: Image: Skidsteer Dozer(s) 1 Skyjack Image: Parkbag(c) Water Truck	WEATHER: x Clear Cold Cloudy Cool x Partly Cloudy X Raining X Hot Windy 71°F Low Temp. (°F) Foggy / Misty 99°F High Temp. (°F) FIELD TESTING PERFORMED: Subgrade Moisture/Density Subgrade Shelby Tube(s) Clay Liner PERSONNEL ONSITE: 10 Liner Crew 2 Client 10 Liner Installer 1 COA Consultant Congroto Crew
Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor	1 CQA Consultant Concrete Crew Design Engineer Pipe Installer 1 Surveyor Gas Line Inst.
Observe ESI deploy versacap on the south slope of the south be SUMMARY OF ACTIVITIES OBSERVED: ESI deployed and fusion welded versacap panels along south slope SFC began backfilling south anchor trench with skidsteer. SFC excavator was used to pull panels up slope.	ope of south berm.
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Began first lift of south anchor trench for versacap. COMPACTION EFFORTS: No compaction on anchor trench lift a	It this time.
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be su of each day and should be maintained with the Project Records.	ubmitted to the Project Manager at the end



Daily Proje	ect Constru	ction Summary	
Project No:	35177127		
Date of Report:	8/6/2018		
Client Name	Amorican Elect	ric Dowor	14/6

Date of Report: 8/6/2018	
Client Name: American Electric Power	WEATHER:
Contractor: SFC / ESI	x Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy 74°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 96°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 5:30 AM Depart Site: 3:15 PM	Moisture/Density Subgrade
Arrive Site: 7:15 AM Arrive Lab: 4:00 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
Dozer(s) <u>1</u> Skyjack	2 Client 14 Liner Crew
1 Excavator(s) 2 Skidsteer	2 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe ESI deploy geocomposite and zip-tie and sew.	
SUMMARY OF ACTIVITIES OBSERVED:	
ESI deployed geocomposite panels, zip-tied the geonetting toget	her, and then sewed the geotextile together.
SEC continued cutting anchor tranch and backfilling it	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Began first lift of south anchor trench for versacap.	
COMPACTION EFFORTS: No compaction on anchor trench lift at	this time.
COMPACTION EFFORTS: No compaction on anchor trench lift at	this time.
COMPACTION EFFORTS: No compaction on anchor trench lift at OPERATIONAL CONCERNS & SOLUTIONS:	this time.
COMPACTION EFFORTS: No compaction on anchor trench lift at OPERATIONAL CONCERNS & SOLUTIONS:	this time.

25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily	/ Pro	ject	Construction	Summary

25809 Interstate 30 South Bryant, AR 72022

Project No: <u>35177127</u>		(501) 847-9292
Date of Report: 8/7/2018		
	VVEATHER.	Cold
Contractor: SFC / ESI		
Location: Fullon, AR		
Representative: Grey witte		
Technician: IVIALL ACTEE		72 F Low Temp. (F)
		<u>97 F</u> High Temp. (F)
REPORTING TIMES:	FIELD TESTING PERFORM	MED:
Depart Lab: 6:15 AM Depart Site: 3:30 PM	Moisture/Density	Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:30 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
Dozer(s) 1 Skyjack	2 Client	14 Liner Crew
1 Excavator(s) 2 Skidsteer	2 Contractor	Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant	Concrete Crew
Haul Truck(s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grader(s) Smooth Drum Compactor	1 Surveyor	Gas Line Inst.
QA/QC EXPECTATIONS:		
Observe ESI deploy versacap on south slope of south berm.		
SUMMARY OF ACTIVITIES OBSERVED:		
ESI completed deployment of versacap panels and welded them	together.	
SFC continued cutting anchor trench and backfilling it.		
LIFTS: Completed backfilling south anchor tronch for vorsacan		
En 13. completed backning south anchor trench for versatap		
COMPACTION EFFORTS: Compacted the anchor trench with smo	oth drum.	
OPERATIONAL CONCERNS & SOLUTIONS:		
Note: Conjes of all completed "Project Field Decord Forms" are to be sub	mitted to the Droject Man	ager at the ord
more, copies of all completed infoget right Record rollins are to be sub	milled to the Fruject Mar	ומקכו מו נוופ פווע



Daily	y Pro	ject (Constr	uction	Summary	
-	/					

Daily Project Construction Summary	25809 Interstate 30 South
Project No: 35177127	Bryant, AR 72022 (501) 847-9292
Date of Report: 8/8/2018	
Client Name: American Electric Power	WEATHER:
Contractor: SFC / ESI	Clear Cold
Project Name: Turk Cell 2	
Location: Fulton AR	x Partly Cloudy x Warm
Penresentative: Grea Witte	
Technician: Matt Acros	Windy 72°E Low Tomp (°E)
	$\frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$
Test Location: Cell 2	1 Foggy / Misty 97 F High Temp. (F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 4:45 AM Depart Site: 2:30 PM	Moisture/Density Subgrade
Arrive Site:6:45 AMArrive Lab:4:15 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
Dozer(s) Skyjack	1 Client Liner Crew
2 Excavator(s) 1 Skidsteer	4 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
1 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) 1 Smooth Drum Compactor	Surveyor Gas Line Inst.
Observe SEC complete backfilling of porth anchor trench	
Observe si e complete backning of north anchor trench.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator loaded clay liner material from south berr	m stockpile into hauler. Also moved material
from stockpiles into anchor trench.	<u></u>
Contractor hauler transported material from south berm stock	bile to north berm.
Contractor skidsteer loaded material and moved it into anchor	trench.
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS: Placed first, second, and third lifts of anchor trench.	
COMPACTION FEFORTS: Compacted first lift three times with the	rench nacker. Compacted second lift with one
hass of trench packer and then Λ_{-5} passes with small every ator	Compacted third lift with more than 5 passos
with shoon's foot. Compacted again with smooth drum after on	nough material was placed
OPERATIONAL CONCERNS & SOLUTIONS	iougii matenai was piaceu.
Note: Copies of all completed "Project Field Record Forms" are to be su	Ibmitted to the Project Manager at the end

aco



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u> Date of Report: 8/15/2018	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	X Partly Cloudy X Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy <u>75°F</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>96°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 12:30 PM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 2:30 PM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
Dozer(s) Skyjack	2 Client Liner Crew
1 Excavator(s) 1 Skidsteer	12 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	<u> </u>
Observe placement of protective cover.	
Contractor built rockcheck in south stormwater ditch to prever	nt erosion from pumping of borrow area into
said ditch.	
Contractor skidsteer retrieved rock from stockpile and placed i	t in ditch.
Contractor excavator spread and shaped rocks into structure.	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end



erracon
25809 Interstate 30 South
Bryant AR 72022

Project No: <u>35177127</u>	(501) 847-9292		
Client Name American Electric Power	WEATHER		
Contractor: SEC			
Project Name Turk Cell 2			
Location: Fulton AR	X Partly Cloudy X Warm		
Representative: Greg Witte			
Technician: Matt Acree	Windy 76°F Low Temp (°F)		
Test Location: Cell 2	$\Box Foggy / Misty 100°F High Temp. (°F)$		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:30 AM Depart Site: 5:15 PM	Moisture/Density Subgrade		
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s)		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
1 Dozer(s) Skyjack	2 Client Liner Crew		
1 Excavator(s) Skidsteer	12 Contractor Liner Installer		
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew		
3 Haul Truck(s) Sheeps Foot Compactor	1 Design Engineer Pipe Installer		
Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.		
QA/QC EXPECTATIONS:			
Observe placement of protective cover along east berm. Intent i	s to create an access road for haulers.		
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor excavator cut protective cover material from overbui	ild area in cell 3 and loaded into haulers.		
Contractor baulors transported protective cover material to be corner of cell and began offloading along east			
<u>contractor natiers transported protective cover material to ne corner of cell and began offloading along east</u> tie-in to the south			
<u>Contractor dozer spread protective cover material along ne cell corner</u>			
contractor dozer spread protective cover material along he cerreomer.			
COMPACTION EFFORTS:			
OPERATIONAL CONCERNS & SOLUTIONS:			



	ICLUII	
25809	Interstate 30 South	
	Bryant, AR 72022	

Project No: <u>35177127</u>	(501) 847-9292		
Client Name: American Electric Power	WEATHED.		
Contractor: SEC			
Droiget Names Turk Coll 2			
	V Partly Claudy		
Representative: Greg Witte			
Technician: Matt Acree	$ \qquad \qquad$		
Test Location: <u>Cell 2</u>	Foggy / Misty <u>100°F</u> High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:30 AM Depart Site: 5:15 PM	Moisture/Density Subgrade		
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
1 Dozer(s) Skyjack	2 Client Liner Crew		
1 Excavator(s) Skidsteer	12 Contractor Liner Installer		
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew		
3 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer		
Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.		
QA/QC EXPECTATIONS:			
Observe continued placement of protective cover along east be	rm.		
Contractor excavator cut protective cover material from overbu	ild area in cell 3 and loaded into baulers		
Contractor haulers transported protective cover material to easi	t berm of cell and continued offloading to the		
south.			
Contractor dozer spread protective cover material along east be	erm.		
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS:			
OPERATIONAL CONCERNS & SOLUTIONS:			



ferracon
25809 Interstate 30 South
Bryant AR 7202

Project No: <u>35177127</u>	(501) 847-9292		
Date of Report: 8/21/2018	r		
Client Name: American Electric Power	WEATHER:		
Contractor: SFC	L Clear Cold		
Project Name: Turk Cell 2	Cloudy Cool		
Location: Fulton, AR	x Partly Cloudy x Warm		
Representative: Greg Witte	Raining X Hot		
Technician: Matt Acree	X Windy 67°F Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty 90°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 8:30 AM Depart Site: 3:00 PM	Moisture/Density Subgrade		
Arrive Site: 10:15 AM Arrive Lab: 4:45 PM	Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
1 Dozer(s) Skyjack	2 Client Liner Crew		
1 Excavator(s) Skidsteer	7 Contractor Liner Installer		
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew		
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer		
Motor Grader(s) Smooth Drum Compactor	Surveyor Gas Line Inst.		
QA/QC EXPECTATIONS:			
Observe continued placement of protective cover along east ber	rm and into cell floor as large ramp.		
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor excavator cut protective cover material from storm d	ditch extending from overbuild area to nw		
and loaded into haulers.			
Contractor haulers transported protective cover material to east	t berm of cell and continued offloading to the		
south.			
Contractor dozer spread protective cover material along east be	erm.		
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS:			
COMPACTION EFFORTS:			
OPERATIONAL CONCERNS & SOLUTIONS:			
L	pmitted to the Project Manager at the end		



Daily Project Construction Summary Project No: 35177127	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292		
Date of Report:8/22/2018Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	WEATHER: x Clear Cold Cloudy Cool Partly Cloudy X Warm Raining X Hot Windy 67°F Low Temp. (°F) Foggy / Misty 90°F High Temp. (°F)		
REPORTING TIMES:Depart Lab:6:00 AMDepart Site:4:45 PMArrive Site:7:45 AMArrive Lab:6:45 PM	FIELD TESTING PERFORMED: Moisture/Density Subgrade Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE: 1 Dozer(s) Skyjack 1 Excavator(s) Skidsteer Backhoe(s) Water Truck 2 Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor	PERSONNEL ONSITE: 2 Client 7 Contractor 1 CQA Consultant Design Engineer Pipe Installer Surveyor Gas Line Inst.		
QA/QC EXPECTATIONS: Observe continued placement of protective cover along east berm and into cell floor as large ramp. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut protective cover material from storm ditch extending from overbuild area to nw and loaded into haulers. Also placed protective cover material on top of plyboard in cell floor. Contractor haulers transported protective cover material to east berm of cell and continued offloading to the south. Contractor dozer spread protective cover material along east berm.			

LIFTS WORKED AND COMPACTION EFFORTS:

LIFTS:

COMPACTION EFFORTS:

OPERATIONAL CONCERNS & SOLUTIONS:

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



er	720	:on
25809	Interstate	e 30 South
	Bryant	AR 72022

Project No: <u>35177127</u>	(501) 847-9292		
Client Name: American Electric Power	WEATHED		
Location: Fulton, AR	x Partly Cloudy x Warm		
Representative: Greg Witte	Raining X Hot		
Technician: Matt Acree	Windy 67°F Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty 92°F High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:00 AM Depart Site: 5:15 PM	Moisture/Density Subgrade		
Arrive Site: 7:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
1 Dozer(s) Skyjack	2 Client Liner Crew		
1 Excavator(s) Skidsteer	8 Contractor Liner Installer		
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew		
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer		
Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst		
Observe continued placement of protective cover along east berm and into cell floor as large ramp. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut protective cover material from borrow area and storm ditch area to the nw.			
Contractor haulers transported protective cover material to cell	floor and offloaded.		
Contractor dozer spread protective cover material in cell floor			
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS:			
OPERATIONAL CONCERNS & SOLUTIONS:			
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end		



Project No:

Client Name:

Contractor:

Location:

Technician:

Depart Lab:

Arrive Site:

1

Dozer(s)

Test Location:

Project Name:

25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292 35177127 Date of Report: 8/24/2018 American Electric Power WEATHER: SFC Х Clear Cold Turk Cell 2 Cloudy Cool Fulton, AR Partly Cloudy х Warm Representative: Greg Witte Raining х Hot Matt Acree 70°F Low Temp. (°F) Windy Cell 2 98°F High Temp. (°F) Foggy / Misty **REPORTING TIMES:** FIELD TESTING PERFORMED: Subgrade 6:15 AM Depart Site: 5:15 PM Moisture/Density 6:30 AM Arrive Lab: 5:45 PM Shelby Tube(s) **Clay Liner** PERSONNEL ONSITE: EQUIPMENT ONSITE: Skyjack 2 Client Liner Crew 8 Contractor Liner Installer 1 Excavator(s) Skidsteer 1 CQA Consultant Backhoe(s) Water Truck Concrete Crew 2 Haul Truck(s) Sheeps Foot Compactor **Design Engineer Pipe Installer** 1 Surveyor Gas Line Inst. Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover in cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut protective cover material from borrow area. Contractor haulers transported protective cover material to cell floor and offloaded. Contractor dozer spread protective cover material in cell floor

LIFTS WORKED AND COMPACTION EFFORTS: LIFTS:

COMPACTION EFFORTS:

OPERATIONAL CONCERNS & SOLUTIONS:

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u> Date of Report: <u>8/25/2018</u>	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	x Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	Raining X Hot
Test Location: Cell 2	$ \qquad $
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:6:15 AMDepart Site:5:00 PMArrive Site:6:30 AMArrive Lab:7:00 PM	Moisture/Density Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1 Dozer(s) Skyjack	ClientLiner Crew
1 Excavator(s) Skidsteer	8 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Shooth Drum compactor	
QA/QC EXPECTATIONS:	
Observe continued placement of protective cover in cell floor.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut protective cover material from borrow	<u>/ area.</u>
Contractor haulers transported protective cover material to cell	floor and offloaded.
Contractor dozer spread protective cover material in cell floor	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily	y Pro	ject	Construction	Summary
-------	-------	------	--------------	---------

Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No:35177127Date of Report:8/27/2018Client Name:American Electric Power	(501) 847-9292 WEATHER:
Contractor:SFC / ESIProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2	x Clear Cold Cloudy Cool x Partly Cloudy X Raining X Hot Windy 76°F Low Temp. (°F) Foggy / Misty 97°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:5:00 AMDepart Site:5:00 PMArrive Site:6:45 AMArrive Lab:7:00 PM	Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1Dozer(s)Skyjack1Excavator(s)1Backhoe(s)13Haul Truck(s)Sheeps Foot CompactorMotor Grader(s)Smooth Drum Compactor	2ClientLiner Crew8ContractorLiner Installer1CQA ConsultantConcrete CrewDesign EngineerPipe Installer1SurveyorGas Line Inst.
Observe continued placement of protective cover in cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut protective cover material from borrow	<u>area.</u>
Contractor haulers transported protective cover material to cell	floor and offloaded.
Contractor dozer spread protective cover material in cell floor. A	Also filled in ruts on south berm.
Skidsteer moved more particle board to cell floor to help preven for pipe-laying.	nt punctures in liner when removing material
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end


Daily	y Pro	ject (Constr	uction	Summary	/
-------	-------	--------	--------	--------	---------	---

Daily Project Construction Summary	25809 Interstate 30 South
Project No:35177127Date of Report:8/28/2018Client Name:American Electric PowerContractor:SFC / ESIProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2Project Name:Bepresentative:Greg WitteTechnician:Matt AcreeTest Location:Cell 2Project Name:Contractor:Cell 2REPORTING TIME:S:15 PMArrive Site:6:30 AMArrive Lab:5:45 PM	Bryant, AR 72022 (501) 847-9292 WEATHER: X Clear Cloudy Cool X Partly Cloudy X Warm Raining X Windy 75°F Foggy / Misty 97°F High Temp. (°F) FIELD TESTING PERFORMED: Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:1Dozer(s)Skyjack1Excavator(s)SkidsteerBackhoe(s)1Water Truck3Haul Truck(s)Sheeps Foot Compactor1Motor Grader(s)Smooth Drum Compactor	PERSONNEL ONSITE: 2 Client Liner Crew 10 Contractor Liner Installer 1 CQA Consultant Concrete Crew Design Engineer Pipe Installer 1 Surveyor Gas Line Inst.
Observe continued placement of protective cover in cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut protective cover material from borrow Contractor haulers transported protective cover material to cell Contractor dozer spread protective cover material in cell floor. A	area. floor and offloaded. Iso filled in ruts on south berm.
LIFTS WORKED AND COMPACTION EFFORTS:	
COMPACTION EFFORTS:	
Note: Copies of all completed "Project Field Record Forms" are to be sub	pmitted to the Project Manager at the end



Daily Project Construction Summary Project No: 35177127	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report: 8/29/2018	
Client Name: American Electric Power	WEATHER:
Contractor: SFC	
Project Name: Turk Cell 2	X Cloudy Cool
Location: Fulton, AR	X Partly Cloudy X Warm
	$\begin{bmatrix} X \\ Hol \end{bmatrix}$
	$\sqrt{\frac{73 \text{ F}}{100000000000000000000000000000000000$
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1 Dozer(s) Skyjack	2 Client Liner Crew
1 Excavator(s) Skidsteer	10 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) Smooth Drum Compactor	<u>1</u> Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe continued placement of protective cover in cell floor.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut protective cover material from borrow	v area.
Contractor boulars transported protective source material to call	l floor and offlooded
Contractor natiers transported protective cover material to cell	i noor and officiaded.
Contractor dozer spread protective cover material in cell floor	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
L-	Impitted to the Project Manager at the end



	leccaron
Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u>	(501) 847-9292
Client Name: American Electric Power	WEATHER
Contractor: SEC	
Project Name [,] Turk Cell 2	
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy 72°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 92°F High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 12:00 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 2:00 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1 Dozer(s) Skyjack	2 Client Liner Crew
1 Excavator(s) Skidsteer	10 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) Smooth Drum Compactor	<u> </u>
Observe continued placement of protective cover in cell floor. SUMMARY OF ACTIVITIES OBSERVED:	N 2702
<u>Contractor haulers transported protective cover material to cel</u>	I floor and offloaded.
Contractor dozer spread protective cover material in cell floor.	
	-
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be su	Ibmitted to the Project Manager at the end

of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 9/4/2018	Bryant, AR 72022 (501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SEC	
Project Name: Turk Cell 2	
	Rectudy Cloudy Warm
Location: Fution, AR	
Representative: Greg wille	
Technician: Matt Acree	$12^{\circ}F$ Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>96°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 5:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 7:15 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1 Dozer(s) Skyjack	1 Client Liner Crew
1 Excavator(s) Skidsteer	8 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 COA Consultant Concrete Crew
3 Haul Truck(s) Sheens Foot Compactor	Design Engineer Pine Installer
	1 Survoyor Gas Lino Inst
QA/QC EXPECTATIONS:	
Observe continued placement of protective cover in cell floor.	
SUMMARY OF ACTIVITIES OBSERVED:	w area
Contractor haulers transported protective cover material to cell	l floor and offloaded.
Contractor dozer spread protective cover material in cell floor.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Rain from previous night delayed starting time to around 11:00	<u>AM.</u>
	Level and the Development of the second s
of each day and should be maintained with the Project Records.	iomitted to the Project Manager at the end



	lerraron
Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u>	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	x Partly Cloudy x Warm
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy <u>71°F</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>94°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner
	PERSONNEL ONSITE:
1 Dozer(s) Skviack	1 Client Liner Crew
1 Excavator(s) Skidsteer	8 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) Smooth Drum Compactor	1SurveyorGas Line Inst.
SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut protective cover material from borrow	<u>W area.</u>
Contractor dozer spread protective cover material in cell floor	
	-
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end

of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: <u>9/6/2018</u>	Bryant, AR 72022 (501) 847-9292
Client Name: American Electric Power	WEATHER
Contractor: SEC	
Location: Fulton, AR	
Representative: Greg Witte	Raining X Hot
Technician: Matt Acree	Windy <u>68°F</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty <u>93°F</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 7:00 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1 Dozer(s) Skyjack	2 Client Liner Crew
1 Excavator(s) Skidsteer	8 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) Sheeps Foot Compactor	1 Design Engineer Pipe Installer
1 Motor Grader(s) Smooth Drum Compactor	Surveyor Gas Line Inst.
Observe continued placement of protective cover in cell floor.	
Contractor excavator cut protective cover material from borrov	N area.
Contractor haulers transported protective cover material to cell	I floor and offloaded.
Contractor dozer spread protective cover material in cell floor.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
L Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 9/7/2018	Bryant, AR 72022 (501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear
Project Name: Turk Cell 2	
Location: Fulton AR	x Partly Cloudy x Warm
Representative: Greg Witte	\square Raining x Hot
Technician: Matt Acree / Scott McDonald	Windy 68°F Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 93°F High Temp. (°F)
REPORTING TIMES:	FIFLD TESTING PERFORMED:
Dopart Lab: 5:00 AM Dopart Site: 5:15 PM	Moisturo/Donsity Subgrade
Depart Lab.5:00 AlviDepart site.5:15 PlviArrive Site:7:00 AMArrive Lab:5:45 PM	Shelby Tube(s)
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Skyjack	1 Client Liner Crew
1 Excavator(s) Skidsteer	8 Contractor Liner Installer
Backhoe(s) 1 Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
1 Motor Grader(s) Smooth Drum Compactor	1SurveyorGas Line Inst.
Observe continued placement of protective cover in cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut protective cover material from borrow	v area.
Contractor haulers transported protective cover material to cell	l floor and offloaded.
Contractor dozer spread protective cover material in cell floor.	
Contractor laborers placed plyboard on geocomposite to help p	revent punctures when excavating for pipe
installation.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: <u>9/8/2018</u>	(501) 847-9292
Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Location:Fulton, ARRepresentative:Greg WitteTechnician:Scott McDonaldTest Location:Cell 2	WEATHER: Clear Cold X Cloudy Cool X Partly Cloudy X Warm X Raining X Hot Windy 73°F Low Temp. (°F) Foggy / Misty 83°F High Temp. (°F)
Depart Lab:6:15 AMDepart Site:3:00 PMArrive Site:6:30 AMArrive Lab:5:00 PM	Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE: 2 Dozer(s) Skyjack 1 Excavator(s) Skidsteer Backhoe(s) 1 Water Truck 3 Haul Truck(s) Sheeps Foot Compactor 1 Motor Grader(s) Smooth Drum Compactor	PERSONNEL ONSITE: 1 Client Liner Crew 8 Contractor Liner Installer 1 CQA Consultant Concrete Crew Design Engineer Pipe Installer 1 Surveyor Gas Line Inst.
Observe continued placement of protective cover in cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut protective cover material from borrow Contractor haulers transported protective cover material to cell Contractor dozer spread protective cover material in cell floor.	<u>v area.</u> I floor and offloaded.
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS:	
COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Rainout at 3:00 PM Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end



Daily Project Construction Summary

Daily Project Construction Summary		25809 Interstate 30 South Bryant AR 72022
Project No: <u>35177127</u>		(501) 847-9292
Date of Report: 9/12/2018		
Client Name: American Electric Power	WEATHER:	
Contractor: SFC		
Representative: Greg Witte		
Technician: Scott McDonald		67 Low Temp (°F)
Test location: Cell 2	Foggy / Misty	81 High Temp. (°F)
	FIELD TESTING PERFU	VRIVIED:
Depart Lab: 7:45 AM Depart Site: 5:30 PM	Moisture/Densit	y <u>Subgrade</u>
Arrive Site: 9:30 AIVI Arrive Lab: 6:00 PIVI		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
1 Dozer(s) Skyjack	2 Client	Liner Crew
Excavator(s) Skidsteer	<u>6</u> Contractor	Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant	Concrete Crew
4 Haul Truck(s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grader(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
ΩΔ/ΩC EXPECTATIONS:		
Observe continued placement of protective cover in cell floor		
SUMMARY OF ACTIVITIES OBSERVED		
Contractor excavator cut protective cover material from borrow	area	
Contractor haulers transported protective cover material to cell f	floor and offloaded.	
Contractor dozer spread protective cover material in cell floor.		
LIFTS WORKED AND COMPACTION EFFORTS:		
LIF I J.		
COMPACTION EFFORTS:		
OPERATIONAL CONCERNS & SOLUTIONS:		

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u> Date of Report: <u>9/13/2018</u>	(501) 847-9292
Contractor: SFC	Clear Cold
Project Name: Turk Cell 2 Location: Fulton, AR	Cool Cool Partly Cloudy Warm
Representative: Greg Witte Technician: Scott McDonald	Raining Hot Windy 71 Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 89 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab:6:45 AMDepart Site:5:30 PMArrive Site:7:00 AMArrive Lab:6:00 PM	Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
Dozer(s) Skyjack	Client Liner Crew
Excavator(s) Skidsteer	Liner Installer
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	SurveyorGas Line Inst.
Observe continued placement of protective cover in cell floor.	
SUMMARY OF ACTIVITIES OBSERVED:	
<u>Contractor excavator cut protective cover material from borrow</u>	varea.
Contractor haulers transported protective cover material to cell	floor and offloaded.
Contractor dozer spread protective cover material in cell floor.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end

of each day	v and should be ma	aintained with the	Project Records.
or cuorr du	y una shoala bo m		110,000,000,000



	l[erracon_
Daily Project Construction Summary	25809 Interstate 30 South Bryant AR 72022
Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 9/14/2018 Client Name: American Electric Power	WEATHER
Contractor: SFC	Clear
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy Warm
Representative: Greg Witte	Raining Hot
Technician: Scott McDonald	Windy <u>73</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 92 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:45 AM Depart Site: 5:30 PM	Moisture/Density Subgrade
Arrive Site: 7:00 AM Arrive Lab: 6:00 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1 Dozer(s) Skyjack	Client Liner Crew
Excavator(s) Skidsteer	7 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
<u>3</u> Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum compactor	Gas Line Irist.
OA/OC EXPECTATIONS:	
Observe continued placement of protective cover in cell floor.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut protective cover material from borrow	area.
· · · · · · · · · · · · · · · · · · ·	
Contractor haulers transported protective cover material to cell	floor and offloaded.
Contractor dozer spread protective cover material in cell floor	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>351//12/</u> Date of Report: 9/15/2018	(501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy Warm
Representative: Greg Witte	Raining Hot
Technician: Scott MicDonald	Windy / Low Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1 Dozer(s) Skyjack	2 Client Liner Crew
Excavator(s) Skidsteer	5 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
4 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	Gas Line Inst.
Observe continued placement of protective cover in cell floor	
Contractor excavator cut protective cover material from borrow	/ area
Contractor haulers transported protective cover material to cell	floor and offloaded.
Contractor dozer spread protective cover material in cell floor.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
CONFACTION EFFORTS.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be sul	pmitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 9/16/2018	Bryant, AR 72022 (501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy Warm
Representative: Greg Witte	Raining Hot
Technician: Scott McDonald	Windy 72 Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 94 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:30 PM	Moisture/Density Subgrade
Arrive Site: 6:45 AM Arrive Lab: 6:00 PM	\square Shelby Tube(s) \square Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
<u>1</u> Dozer(s) <u>Skyjack</u>	2 Client Liner Crew
Excavator(s) Skidsteer	8 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
<u>3</u> Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe installer
INIOTOR Grader(s) Smooth Drum Compactor	Gas Line inst.
QA/QC EXPECTATIONS: Observe continued placement of protective cover in cell floor a	and slope.
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut protective cover material from borrow	<u>w area.</u>
Contractor haulers transported protective cover material to cel	Il floor and offloaded.
Contractor dozer spread protective cover material in cell floor a	and slope.
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	EFFECTION 25809 Interstate 30 South Bryant, AR 72022			
Project No: <u>35177127</u>	(501) 847-9292			
Date of Report: 9/17/2018				
Client Name: American Electric Power	WEATHER:			
Contractor: SFC	Clear Cold			
Project Name: Turk Cell 2				
Location: Fulton, AR	Partly Cloudy Warm			
Representative: Greg Witte	Raining Hot			
Technician: Scott McDonald	Windy <u>72</u> Low Temp. (°F)			
Test Location: Cell 2	Foggy / Misty <u>99</u> High Temp. (°F)			
REPORTING TIMES:	FIELD TESTING PERFORMED:			
Depart Lab: 6:15 AM Depart Site: 5:30 PM	Moisture/Density Subgrade			
Arrive Site: 6:45 AM Arrive Lab: 6:00 PM	Shelby Tube(s) Clay Liner			
EQUIPMENT ONSITE:	PERSONNEL ONSITE:			
1 Dozer(s) Skyjack	2 Client Liner Crew			
Excavator(s) Skidsteer	<u>8</u> Contractor Liner Installer			
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew			
3 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer			
Motor Grader(s) Smooth Drum Compactor	Gas Line Inst.			
Observe continued placement of protective cover in cell floor and slope. SUMMARY OF ACTIVITIES OBSERVED:				
<u>Contractor excavator cut protective cover material from borrow area.</u>				
Contractor dozer spread protective cover material in cell floor and slope.				
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS:				
COMPACTION EFFORTS:				
Note: Copies of all completed "Project Field Record Forms" are to be sub	mitted to the Project Manager at the end			



Daily Proje	ect Construction Summary	25809 Interstate 3 Bryant, Al	0 South R 72022
Project No:	35177127	(501) 84	17-9292
Date of Report:	9/18/2018		
		WEATHER:	
Contractor:			
Project Name:			
Location:	Fullon, AR		
Representative:	Scott McDonald		o (°E)
Technician:		□ Windy <u>72</u> Low Temp	J. (Г) р. (°Г)
Test Location:			р. (г)
REPORTING TIM	ES:	FIELD TESTING PERFORMED:	
Depart Lab:	6:15 AM Depart Site: 5:30 PM	Moisture/Density Subgrade	
Arrive Site:	6:30 AM Arrive Lab: 6:00 PM	Shelby Tube(s) Clay Liner	
EQUIPMENTONS		PERSONNEL ONSITE:	
<u>1</u> Dozer(s)	Skyjack	2 Client Liner Crew	N
Excavator(s	Si Skidsteer	<u>8</u> Contractor <u>Enternista</u>	Crow
	(c) Shoons Foot Compactor	Design Engineer Pine Insta	
Haul Huck	der(s) Smooth Drum Compactor	Surveyor Gas Line I	nst
	TIONS		
Observe contin	ued placement of protective cover in cell floor a	and slope	
Observe contin			
Contractor exc	evator out protective cover material from borrow	N 3763	
Contractor hau	lers transported protective cover material to cel	I floor and offloaded	
<u>contractor nau</u>			
Contractor doz	er spread protective cover material in cell floor a	and slope.	
	• •		
LIFTS WORKED A	ND COMPACTION EFFORTS:		
LIFTS:			
COMPACTION	EFFORTS:		
OPERATIONAL C	ONCERNS & SOLUTIONS:		
Note: Copies of al	l completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end	



Daily Project Cons	struction Summary		5809 Interstate 30 South
Project No: <u>35177127</u>			(501) 847-9292
Date of Report: 9/21/2018	3		
Client Name: American	Electric Power	WEATHER:	
Contractor: SFC		Clear	Cold
Project Name: Turk Cell 2		Cloudy	
Location: Fulton, AR		Partly Cloudy	Warm
Representative: Greg Witte	9	Raining	Hot
Technician: Scott McD	onald	Windy	70 Low Temp. (°F)
Test Location: Cell 2		Foggy / Misty	86 High Temp. (°F)
REPORTING TIMES:		FIELD TESTING PERFORM	ED:
Depart Lab: 6:15 AM	Depart Site: 1:15 PM	Moisture/Density	Subgrade
Arrive Site: 6:30 AM	Arrive Lab: 3:15 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONSITE:		PERSONNEL ONSITE:	
2 Dozer(s)	Skviack	2 Client	Liner Crew
1 Excavator(s)	Skidsteer	4 Contractor	Liner Installer
Backhoe(s)	Water Truck	1 CQA Consultant	Concrete Crew
3 Haul Truck(s)	Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grader(s)	Smooth Drum Compactor	Surveyor	Gas Line Inst.
QA/QC EXPECTATIONS:			
Observe continued placem	ent of protective cover on west ber	<u>m.</u>	
SUMMARY OF ACTIVITIES OB	SERVED:		
Contractor excavator cut p	rotective cover material from borro	ow area.	
Contractor haulers transpo	rted protective cover material to w	est berm then offloaded.	
Contractor dozer spread pr	rotective cover material on west be	rm.	
Contractor started cutting	road west of berm to grade.		
	TION FEFORTS		
LIFTS:			
COMPACTION EFFORTS:			
OPERATIONAL CONCERNS & S	SOLUTIONS:		
Note: Copies of all completed "	'Project Field Record Forms" are to be some maintained with the Project Records	submitted to the Project Mana	ger at the end



Daily Proje	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022
Project No:	35177127		(501) 847-9292
Date of Report:	9/20/2018		
Client Name:	American Electric Power	WEATHER:	
Contractor:	SFC	Clear	Cold
Project Name:	Turk Cell 2	Cloudy	Cool
Location:	Fulton, AR	Partly Cloudy	Warm
Representative:	Greg Witte	Raining	Hot
Technician:	Scott McDonald	Windy	72 Low Temp. (°F)
Test Location:	Cell 2	Foggy / Misty	95 High Temp. (°F)
REPORTING TIM	ES:	FIELD TESTING PERFOR	MED:
Depart Lab:	6:15 AM Depart Site: 5:30 PM	Moisture/Density	Subgrade
Arrive Site:	6:30 AM Arrive Lab: 6:00 PM	Shelby Tube(s)	Clay Liner
		PERSONNEL ONSITE:	
2 Dozer(s)	Skyjack		Liner Crew
Excavator(s	Skidsteer		
Backnoe(s)	Water Truck		Concrete Crew
Haul Truck	s) Sneeps Foot Compactor		Pipe Installer
Motor Grad	der(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
QA/QC EXPECTA	TIONS:		
Observe contin	ued placement of protective cover on slope an	<u>d west berm.</u>	
SUMMARY OF A	CTIVITIES OBSERVED:		
Contractor exca	avator cut protective cover material from borro	ow area.	
Contractor hau	lers transported protective cover material to co	ell floor/berm then offloa	ded.
Contractor doz	er spread protective cover material on cell floo	r, west berm, and slope.	
Contractor plac	ed six rolls of composite on west edge of liner	for future tie in.	
LIFTS WORKED A			
LIFIJ.			
COMPACTION	EFFORTS:		
OPERATIONAL C	ONCERNS & SOLUTIONS:		
Note: Copies of al of each day	l completed "Project Field Record Forms" are to be a and should be maintained with the Project Records	submitted to the Project Ma	nager at the end



Daily Project Constructio	n Summary		25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u>			(501) 847-9292
Date of Report: 9/19/2018			
Client Name: American Electric Po	wer		
Contractor: SFC			
Project Name: Turk Cell 2			
Location: Fulton, AR			
Representative: Greg Witte			Hot
Technician: Scott McDonald			72 Low Temp. (F)
Test Location: Cell 2		Foggy / Misty	101 High Temp. (*F)
REPORTING TIMES:		FIELD TESTING PERFORM	/IED:
Depart Lab: 6:15 AM Depa	rt Site: 5:15 PM	Moisture/Density	Subgrade
Arrive Site: 6:30 AM Arriv	e Lab: 5:45 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONSITE:		PERSONNEL ONSITE:	
1 Dozer(s) Skyjacl	<	2 Client	Liner Crew
Excavator(s) Skidste	er	8 Contractor	Liner Installer
Backhoe(s) Water	Truck	1 CQA Consultant	Concrete Crew
4 Haul Truck(s) Sheeps	Foot Compactor	Design Engineer	Pipe Installer
Motor Grader(s) Smoot	h Drum Compactor	Surveyor	Gas Line Inst.
QA/QC EXPECTATIONS:			
Observe continued placement of prot	ective cover in cell floor an	<u>d slope.</u>	
Contractor excavator cut protective c	over material from borrow	area.	
Contractor haulers transported prote	ctive cover material to cell	floor and offloaded.	
Contractor dozer spread protective co	over material in cell floor ar	nd slope.	
			_
LIFTS WORKED AND COMPACTION EFFOR	RTS:		
LIFTS:			
COMPACTION EFFORTS:			
OPERATIONAL CONCERNS & SOLUTIONS	:		
Note: Copies of all completed "Project Fiel	d Record Forms" are to be sub	mitted to the Project Mana	ager at the end


	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report:	9/30/2018		(000) 011 0100
Client Name:	American Electric Power	WEATHER:	
Contractor:	SFC	Clear	Cold
Project Name:	Turk Cell 2	Cloudy	
Location:	Fulton, AR	Partly Cloudy	Warm
Representative:	Greg Witte	Raining	Hot
Technician:	Scott McDonald	Windy	66 Low Temp. (°F)
Test Location:	Cell 2	Foggy / Misty	80 High Temp. (°F)
REPORTING TIM	ES:	FIELD TESTING PERFO	DRMED:
Depart Lab:	9:30 AM Depart Site: 5:00 PM	Moisture/Densit	ty Subgrade
Arrive Site:	12:00 PM Arrive Lab: 7:00 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
1 Dozer(s)	Skyjack	<u>1</u> Client	Liner Crew
2 Excavator(s	s) Skidsteer	8 Contractor	Liner Installer
Backhoe(s)	Water Truck	<u>1</u> CQA Consultant	Concrete Crew
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grad	der(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
QA/QC EXPECTA Observe contin	TIONS: ued placement of protective cover on west bern	<u>ı.</u>	
SUMMARY OF A	CTIVITIES OBSERVED:		
Contractor exca	avator cut protective cover material from borrov	v area.	
Contractor hau	lers transported protective cover material to we	st berm then offloaded	<u>1.</u>
Contractor doze	er spread protective cover material on west berr	<u>n.</u>	
LIFTS WORKED A	ND COMPACTION EFFORTS:		
LIFTS:			
COMPACTION	EFFORTS:		
OPERATIONAL CO	ONCERNS & SOLUTIONS:		
Note: Copies of all	completed "Project Field Record Forms" are to be su	bmitted to the Project M	lanager at the end



Daily Proje	35177127		25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report:	<u>10/1/2018</u>		
Client Name:	American Electric Power	WEATHER:	
Contractor:			
Project Name:			
Location:	Fulton, AR		
Technician	Scott McDonald		
Technician:		Eoggy / Misty	89 High Temp. (°E)
Test Location:			night temp. (F)
REPORTING TIME	S:	FIELD TESTING PERFO	DRMED:
Depart Lab:	7:30 AM Depart Site: 5:30 PM	Moisture/Densit	ty 🗌 Subgrade
Arrive Site:	9:30 AM Arrive Lab: 6:00 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	TE:	PERSONNEL ONSITE:	
1 Dozer(s)	Skyjack	<u>1</u> Client	Liner Crew
2 Excavator(s) Skidsteer	8 Contractor	Liner Installer
Backhoe(s)	Water Truck	1 CQA Consultant	Concrete Crew
3 Haul Truck(s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grac	er(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
QA/QC EXPECTA Observe contin	rions: ued placement of protective cover on west ber	<u>m.</u>	
SUMMARY OF A	CTIVITIES OBSERVED:		
Contractor exca	vator cut protective cover material from borro	<u>w area.</u>	
Contractor hau	ers transported protective cover material to w	est berm then offloaded	<u>J.</u>
Contractor doze	er spread protective cover material on west be	rm	
LIFTS WORKED A	ND COMPACTION EFFORTS:		
LIFTS:			
COMPACTION	EFFORTS:		
OPERATIONAL CO	DNCERNS & SOLUTIONS:		
Note: Copies of all	completed "Project Field Record Forms" are to be s	ubmitted to the Project M	lanager at the end



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u> Date of Report: <u>10/2/2018</u>	(501) 847-9292
Client Name: American Electric Power Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2	WEATHER: Clear Cold Cloudy Cool Partly Cloudy Warm Raining Hot Windy 70 Low Temp. (°F) Foggy / Misty 93 High Temp. (°F)
Depart Lab:6:15 AMDepart Site:5:15 PMArrive Site:6:30 AMArrive Lab:5:45 PM	Moisture/Density Subgrade Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE: 1 Dozer(s) Skyjack 2 Excavator(s) Skidsteer Backhoe(s) Water Truck 3 Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor	PERSONNEL ONSITE: 1 Client Liner Crew 8 Contractor Liner Installer 1 CQA Consultant Concrete Crew Design Engineer Pipe Installer Surveyor Gas Line Inst.
QA/QC EXPECTATIONS: Observe continued placement of protective cover on west berm SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator cut protective cover material from borrow Contractor haulers transported protective cover material to west Contractor dozer spread protective cover material on west berm	<u>area.</u> at berm then offloaded.
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be sub	omitted to the Project Manager at the end



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 10/3/2018	
Contractor: SEC	
Project Name: Turk Cell 2	
Location: Fulton, AR	Partly Cloudy Warm
Representative: Greg Witte	Raining Hot
Technician: Scott McDonald	Windy 70 Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 94 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner
1 Dozer(s) Skylack	1 Client Liner Crew
2 Excavator(s) Skidsteer	8 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
3 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe continued placement of protective cover on west berm	<u>1.</u>
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator cut protective cover material from borrow	v area.
Contractor haulers transported protective cover material to cell	I floor then offloaded.
Contractor dozer spread protective cover material on cell floor.	-
Contractor laid down plywood in cell.	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be su	bmitted to the Project Manager at the end



Daily Proje	ect Construc	tion Sum	mary			25809 Interstate 30 South Bryant, AR 72022
Project No:	35177127					(501) 847-9292
Date of Report:	10/4/2018	Dowor				
		Power			Cloar	Cald
Contractor:				18	Cloudy	
Location:	Fulton AR				Partly Cloudy	
Representative:	Greg Witte				Raining	
Technician:	Scott McDonald			18	Windy	71 Low Temp. (°F)
Test Location:	Cell 2			片	Foggy / Misty	95 High Temp. (°F)
					,	
REPORTING TIM	S:			FIEL	D TESTING PERFO	DRMED:
Depart Lab:	6:15 AM D	Depart Site:	5:15 PM	니브	Moisture/Densit	ty 🗌 Subgrade
Arrive Site:	6:30 AM A	Arrive Lab:	5:45 PM		Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	TE:			PER	SONNEL ONSITE:	
1 Dozer(s)	Sky	yjack		1	Client	Liner Crew
2 Excavator(s) Ski	idsteer		8	Contractor	Liner Installer
Backhoe(s)	Wa	ater Truck		1	CQA Consultant	Concrete Crew
3 Haul Truck	s) She	eeps Foot Com	pactor		Design Engineer	Pipe Installer
Motor Grad	ler(s) Sm	nooth Drum Co	mpactor		Surveyor	Gas Line Inst.
QA/QC EXPECTA	FIONS:					
<u>Observe contin</u>	ued placement of j	protective co	<u>ver on cell floor.</u>			
SUMMARY OF A	TIVITIES OBSERVED):				
Contractor exca	vator cut protectiv	ve cover mat	erial from borrow	area.		
Contractor hau	ers transported pr	rotective cove	er material to cell f	floor	then offloaded.	
Contractor doz	er spread protectiv	ve cover mate	erial on cell floor.			
Contractor laid	down plywood in d	<u>cell.</u>				
LIFTS WORKED A	ND COMPACTION E	FFORTS:				
LIFTS:						
COMPACTION	EFFORTS:					
OPERATIONAL C	ONCERNS & SOLUTIO	ONS:				
Note: Copies of al	completed "Project	Field Record F	orms" are to be sub	mitteo	d to the Project M	lanager at the end



Daily Proje	ect Const	ruction Sun	nmary			25809 Interstate 30 South Bryant, AR 72022
Project No:	35177127	_				(501) 847-9292
Date of Report:	10/5/2018 American Ele					
Contractor:		ettite i owei		Clear		Cold
Project Name					v	
Location:	Fulton AR			Partly	v Cloudy	Warm
Representative:	Greg Witte			Raini	ng	
Technician:	Scott McDon	ald		Wind	V	71 Low Temp. (°F)
Test Location:	Cell 2				/ / Misty	93 High Temp. (°F)
						<u> </u>
REPORTING TIM	ES:			FIELD TEST	ING PERFO	RMED:
Depart Lab:	6:15 AM	Depart Site:	5:15 PM	Moist	ure/Density	y 📙 Subgrade
Arrive Site:	6:45 AM	Arrive Lab:	5:30 PM	Shelb	y Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:			PERSONNE		
1 Dozer(s)		Skyjack		1 Client		Liner Crew
2 Excavator(s)	5)	Skidsteer		8 Contr	actor	Liner Installer
Backhoe(s)		Water Truck		1 CQA	Consultant	Concrete Crew
3 Haul Truck	(s)	 Sheeps Foot Cor	mpactor	Desig	n Engineer	Pipe Installer
Motor Grad	der(s)	Smooth Drum C	ompactor	Surve	yor	Gas Line Inst.
QA/QC EXPECTA	TIONS:					
Observe contin	ued placemen	t of protective co	over on cell floor.			
SUMMARY OF A	CTIVITIES OBSE	RVED:				
Contractor exca	avator cut pro	tective cover ma	terial from borrow	<u>area.</u>		
Contractor hau	lers transnorte	ed protective cov	ver material to cell	floor then o	ffloaded	
					<u>moaucu.</u>	
Contractor doz	er spread prot	ective cover mat	terial on cell floor.			
	ND 001 10					
	IND COMPACTION	UN EFFORTS:				
LIFIS:						
COMPACTION						
CONFACTION						
005047-0014-0						
OPERATIONAL C	UNCERNS & SO	LUTIONS:				
Note: Conice of -	completed (P	oloct Field Desert	Forme" are to be and	amittad to the		anagor at the and
of each day	and should be	oject rield Record	Project Records		e Project Ma	anager at the effu



Daily Proje	ect Const	ruction Summar	у		25809 Interstate 30 South Bryant, AR 72022
Project No:	35177127	_			(501) 847-9292
Date of Report:	10/6/2018			····-	
Client Name:	American El	ectric Power		WEATHER:	
Contractor:					
Project Name:	Turk Cell 2				
Location:	Fulton, AR			Partiy Cloudy	Warm
Representative:	Greg Witte	1.1			Hot
Technician:		naid			70 Low Temp. (°F)
Test Location:	Cell 2			Foggy / Misty	93 High Temp. (°F)
REPORTING TIM	ES:			FIELD TESTING PERFO	ORMED:
Depart Lab:	6:15 AM	Depart Site: 5:00	PM	Moisture/Densit	y Subgrade
Arrive Site:	6:45 AM	Arrive Lab: 7:00	PM	Shelby Tube(s)	Clay Liner
	11E:	Clusical		PERSONNEL ONSITE:	Linor Crow
Dozer(s)	-)	Skyjack			
		Water Truck		<u> </u>	
2 Haul Truck	(c)	Sheeps Foot Compactor		Design Engineer	Pine Installer
Motor Grad	(3) Her(s)	Smooth Drum Compactor	or.	Surveyor	Gas Line Inst.
	τιονις.				
Observe contin	ued placemer	at of protective cover on	cell floor		
Contractor exca	avator cut pro	tective cover material fr	om horrow	area	
Contractor hau	lers transport	ed protective cover mat	erial to cell	floor then offloaded.	
	•	•			
Contractor doz	er spread pro	tective cover material or	n cell floor a	nd slope.	
		ION EFFORTS:			
LIFIS:					
COMPACTION	FFFORTS				
UPERATIONAL C	UNCERINS & SC				
Note: Conject of all	completed "D	roject Field Pocord Forms"	are to be sub	mitted to the Project M	anager at the end
of each day	and should be	maintained with the Project	ct Records.	The Project M	מהמקבר מנ נווב בווע



Daily Project Construction Summary	25809 Interstate 30 South
Project No: <u>35177127</u> Date of Report: 10/8/2018	Bryant, AR 72022 (501) 847-9292
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear Cold
Project Name: Turk Cell 2	Cloudy Cool
Location: Fulton, AR	Partly Cloudy Warm
Representative: Greg Witte	Raining Hot
Technician: Scott McDonald	Windy 70 Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 91 High Temp. (°F)
Depart Laby 6:15 AM Depart Sites 5:20 DM	
Arrive Site: 6:45 AM Arrive Lab: 6:00 DM	Sholby Tubo(s)
Arrive Site. 0.45 Aivi Arrive Lab. 0.00 Fivi	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1 Dozer(s) Skyjack	1 Client Liner Crew
2 Excavator(s) 1 Skidsteer	10 Contractor Liner Installer
Backhoe(s) Water Truck	<u>1</u> CQA Consultant <u>Concrete Crew</u>
Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe continued placement of protective cover on cell floor.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor dozer spread protective cover to grade on cell floor.	<u>.</u>
<u>Contractor removed section of protective cover from the east s</u>	side cell noor in preparation to install chimney
<u>Contractor welded bene nine</u>	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
OPERATIONAL CONCERNS & SOLUTIONS.	
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end



Project No: 3517127 (501) 84732 Date of Report 10/9/2018 International Contractor: SFC Project Name: Turk Cell 2 Cold Coldudy Cool Location: Fulton, AR Partly Cloudy Warm Representative: Greg Witte Partly Cloudy Warm Test Location: Cell 2 Partly Cloudy Warm Report Lab: 6:15 AM Depart Site: 9 Fogy / Misty 34 High Temp. (*F Pegy / Misty 65 Low Temp. (*F Fogy / Misty 34 High Temp. (*F Popert Lab: 6:15 AM Depart Site: 5:00 PM Misture/Density Subgrade Arrive Site: 1 Skidsteer Subgrade 10 Contractor Liner Crew 1 Dozer(s) Skidsteer Smooth Drum Compactor 10 Contractor Liner Installer Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. Contractor dozer spread protective cover to grade on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor dozer spread protective cover to grade on cell floor. Contractor removed section of protective cover from the east side cell floor in	Daily Proje	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022
Date of Report 10/9/2018 Client Name: American Electric Power Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Technician: 6:15 AM Depart Site: 6:35 AM Arrive Site: 6:45 AM Arrive Lab: 5:00 PM EQUIPMENT ONSITE: Skylack Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drun Compactor Observe continued placement of protective cover on cell floor. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. Contractor Placed gravel in chimney drain. Operation Placement Section of protective cover from the east side cell floor in preparation to install chimney drain. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. OpERATIONAL CONCERNS & SOLUTIONS	Project No:	35177127		(501) 847-9292
Clear Name: Anile Teach Prover Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Project Name: Scott McDonald Technician: Scott McDonald Partly Cloudy Warm Raining Hot Technician: Scott McDonald Depart Lab: 6:15 AM Depart Site: 4:30 PM Arrive Site: 6:45 AM Arrive Iab: 5:00 PM Shelby Tube(s) Clay Liner EQUIPMENT ONSITE: 1 Stadteer Shelby Tube(s) Backhoe(s) Water Tuck Motor Grader(s) Smooth Drum Compactor Motor Grader(s) Smooth Drum Compactor Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. Observe continued placement of protective cover on cell floor. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. Contractor placed gravel in chimney drain. <tr< th=""><th>Date of Report:</th><th>10/9/2018 American Electric Dewor</th><th></th><th></th></tr<>	Date of Report:	10/9/2018 American Electric Dewor		
Contractor Local Cool Project Name: Turk Cell 2 Cool Location: Fulton, AR Cool Representative: Greg Witte Cool Technician: Scott McDonald Hot Cell 2 Figure Name: Hot Representative: Cell 2 Figure Name: Hot Report lab: 6:15 AM Depart lab: 6:15 AM Arrive Lab: 5:00 PM Partly Cloudy Moisture/Density Subgrade Subgrade Arrive Site: 6:45 AM Arrive Lab: 5:00 PM 2 Excavator(s) Skyjack Cortractor Liner Crew 1 Dozer(s) Skyjack Cortractor Liner Crew 2 Excavator(s) Skyjack Cortractor Liner Installer 1 Cortractor Liner Crew Cortractor Liner Installer 3 Stotyjack Smooth Drun Compactor Design Engineer Pipe Installer 3 SumMARY OF ACTIVITIES OBSERVED: Contractor dozer spread protective cover to grade on cell floor. Contractor unded hdpe pipe. C			WEATHER:	Cald
Project Name: Tuik Cen 2 Location: Fullton, AR Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2 Depart Lab: 6:15 AM Depart Lab: 6:15 AM Arrive Site: 6:45 AM Arrive Site: 5:00 PM EQUIPMENT ONSITE: Moisture/Density Depart Lab: 6:15 AM Arrive Site: Skyjack 2 Excavator(s) 1 Skelby Tube(s) Contractor Liner Crew 10 Contractor Hault Tuck(s) Sheelby Tube(s) Motor Grader(s) Smooth Drum Compactor SumMARY OF ACTIVITES OBSERVED: Contractor dozer spread protective cover to grade on cell floor. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. Contractor welded hdpe pipe. Contractor in preparation to install chimney drain. Contractor placed gravel in chimney drain. Contractor secontinue fiforets: UIFTS	Contractor:			
Dotation: Inition Ant Representative: Greg Wittle Technician: Scott McDonald Test Location: Cell 2 Representative: Greg Wittle Depart Lab: 6:15 AM Greg Wittle: 4:30 PM Arrive Site: 6:45 AM Arrive Lab: 5:00 PM GuipMent ONSITE: Image: Compactor 1 Dozer(s) Skidsteer 2 Excavator(s) 1 2 Skidsteer Image: Compactor Haul Truck(s) Sheeps Foot Compactor Design Engineer Motor Grader(s) Smooth Drum Compactor Surveyor Observe continued placement of protective cover on cell floor. Gas Line Inst. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. Contractor welded hdpe pipe. Contractor in preparation to install chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: IFTS UIFTS COMPACTION EFFORTS: UIFTS Contractor Rest Solutions:	Project Name:		Partly Cloudy	
Improvention Sort McDonald Technician Sort McDonald Technician Cell 2 Pepart Lab: 6:15 AM Depart Lab: 6:45 AM Arrive Site: 6:45 AM Arrive Lab: 5:00 PM FELD TESTING PERFORMED: Depart Lab: 6:45 AM Arrive Lab: 5:00 PM FEUD TESTING PERFORMED: Depart Lab: 6:45 AM Arrive Lab: 5:00 PM FEUD TESTING PERFORMED: Dozer(s) Skidsteer Backhoe(s) Skidsteer Backhoe(s) Water Truck Motor Grader(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor Observe continued placement of protective cover on cell floor. Summary Contractor removed section of protective cover from the east side cell floor in preparation to install chimery drain. Liff's WORKED AND COMPACTION EFFORTS: Liff's WORKED AND COMPACTION EFFORTS: Liff's WORKED AND COMPACTION EFFORTS: Liff's COMPACTION EFFORTS:	Representative:	Greg Witte	Raining	
Test Location: Cell 2 Test Location: Cell 2 REPORTING TIMES: FIELD TESTING PERFORMED: Depart Lab: 6:15 AM Arrive Site: 6:45 AM Arrive Lab: 5:00 PM EQUIPMENT ONSITE: Image: personal structure (image: personal structure) 1 Dozer(s) 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck Hault Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SumMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. LIFTS COMPACTION EFFORTS: LIFTS COMPACTION EFFORTS: LIFTS COMPACTION EFFORTS:	Technician:	Scott McDonald	Windy	65 Low Temp (°E)
REPORTING TIMES:	Test Location:	Cell 2	Foggy / Mistv	84 High Temp. (°F)
REPORTING TIMES: Depart Lab: 6:15 AM Depart Site: 4:30 PM Arrive Site: 6:45 AM Arrive Lab: 5:00 PM EQUIPMENT ONSITE: Sklyack Clay Liner 2 Excavator(s) 1 Sklösteer Backhoe(s) 1 Sklösteer 10 Contractor Haul Truck(s) Sheeps Foot Compactor 1 Concrete Crew Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor Gas Line Inst. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover to grade on cell floor. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. Contractor Removes & solutions: UFTS WORKED AND COMPACTION EFFORTS: UFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS:				
Depart Lab: 6:15 AM Depart Site: 4:30 PM Arrive Site: 6:45 AM Arrive Lab: 5:00 PM EQUIPMENT ONSITE: Skyjack Clay Liner 1 Dozer(s) 1 Skyjack 2 Excavator(s) 1 Skyjack 3 Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Design Engineer Motor Grader(s) Smooth Drum Compactor Design Engineer QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS:	REPORTING TIME	ES:	FIELD TESTING PERFO	ORMED:
Arrive Site: 6:45 AM Arrive Lab: 5:00 PM Shelby Tube(s) Clay Liner EQUIPMENT ONSITE: 1 Dozer(s) 1 Skijack 1 Client Liner Crew Backhoe(s) Water Truck 10 Contractor Liner Installer Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. QA/QC EXPECTATIONS: 0 Observe continued placement of protective cover on cell floor. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS Contractor placed gravel in chimney drain. Contractor Sultions & Solutions: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS:	Depart Lab:	6:15 AM Depart Site: 4:30 PM	Moisture/Densi	ty 🔄 Subgrade
EQUIPMENT ONSITE: 1 Dozer(s) Skijack 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 10 Contractor Liner Installer Maint Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor Gas Line Inst. SUMMARY OF ACTIVITIES OBSERVED: Contractor dozer spread protective cover to grade on cell floor. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. LIFTS COMPACTION EFFORTS: LIFTS Compaction State Stat	Arrive Site:	6:45 AM Arrive Lab: 5:00 PM	Shelby Tube(s)	Clay Liner
1 Dozer(s) Skyjack 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 1 Contractor Liner Crew Haul Truck(s) Sheeps Foot Compactor 1 COA Consultant Concrete Crew Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. 0A/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor Gas Line Inst. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover to grade on cell floor. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain.	EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
2 Excavator(s) 1 Skidsteer Liner Installer Backhoe(s) Water Truck 1 CQA Consultant Concrete Crew Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer OA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. 0 Gas Line Inst. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. UIFTS WORKED AND COMPACTION EFFORTS: LIFTS Compaction Efforts: Compaction Efforts: OPERATIONAL CONCERNS & SOLUTIONS: Operations in the concerns	1 Dozer(s)	Skyjack	<u>1</u> Client	Liner Crew
Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor dozer spread protective cover to grade on cell floor. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: Description of protective cover Description of protections & solutions: Description of protection of protection of protection of protective cover from the east side cell floor in preparation to install chimney drain.	2 Excavator(s	s) <u>1</u> Skidsteer	10 Contractor	Liner Installer
Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer GA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Gas Line Inst. SUMMARY OF ACTIVITIES OBSERVED: Contractor dozer spread protective cover to grade on cell floor. Contractor in preparation to install chimney drain and hdpe pipe. Contractor velded hdpe pipe. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: Compaction of protective cover of cell floor. OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS:	Backhoe(s)	Water Truck	1 CQA Consultant	Concrete Crew
Motor Grader(s) Smooth Drum Compactor Gas Line Inst. QA/QC EXPECTATIONS:	Haul Truck(s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor dozer spread protective cover to grade on cell floor. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Motor Grad	der(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
SUMMARY OF ACTIVITIES OBSERVED: Contractor dozer spread protective cover to grade on cell floor. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Observe continu	ued placement of protective cover on cell floor.		
Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Contractor doze	er spread protective cover to grade on cell floor.	_	
drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Contractor rem	oved section of protective cover from the east s	ide cell floor in prepar	ation to install chimney
Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	drain and hdpe	pipe.		
Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Contractor weld	ded hdpe pipe.		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Contractor plac	ed gravel in chimney drain.		
COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	LIFTS WORKED A	ND COMPACTION EFFORTS:		
OPERATIONAL CONCERNS & SOLUTIONS:	COMPACTION	EFFORTS:		
	OPERATIONAL CO	ONCERNS & SOLUTIONS:		
Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Note: Copies of all	completed "Project Field Record Forms" are to be su	Ibmitted to the Project N	lanager at the end

Contract (Second



Client Name: American Electric Power Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2 Metropoly Gi30 AM Depart Lab: 6:30 AM Gi30 AM Depart Site: 8:00 AM Moisture/Density Arrive Site: 6:45 AM Arrive Lab: 10:00 AM EQUIPMENT ONSITE: PERSONNEL ONSITE: Dozer(s) Skidsteer Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor Surveyor Surveyor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out	Cold Cool Warm Hot 57 Low Temp. (°F) 79 High Temp. (°F) ED: Clay Liner
Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2 REPORTING TIMES: FIELD TESTING PERFORM Depart Lab: 6:30 AM Depart Site: 8:00 AM Arrive Site: 6:45 AM Arrive Lab: 10:00 AM EQUIPMENT ONSITE: Personnet Onsite: 10:00 AM Dozer(s) Skyjack 1 Client Backhoe(s) Water Truck 10:00 AIM Design Engineer Motor Grader(s) Sheeps Foot Compactor 1 Client 1 Client Design Engineer Surveyor Surveyor Surveyor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out	Cold Cool Warm Hot 57 Low Temp. (°F) 79 High Temp. (°F) ED: Clay Liner
Contractor: Site Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2 REPORTING TIMES: FIELD TESTING PERFORM Depart Lab: 6:30 AM Depart Site: 8:00 AM Arrive Site: 6:45 AM Arrive Lab: 10:00 AM EQUIPMENT ONSITE: Personnet Onsite: 10:00 AM Dozer(s) Skyjack 1 Client Backhoe(s) Water Truck 10:00 contractor 1 Haul Truck(s) Sheeps Foot Compactor Surveyor Surveyor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor Summary of ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out	Cool Cool Warm Hot 57 Low Temp. (°F) 79 High Temp. (°F) ED: Clay Liner
Intervente Turk cent 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2 REPORTING TIMES: FIELD TESTING PERFORM Depart Lab: 6:30 AM Depart Site: 8:00 AM Arrive Site: 6:45 AM Arrive Lab: 10:00 AM EQUIPMENT ONSITE: PERSONNEL ONSITE: PERSONNEL ONSITE: Dozer(s) Skidsteer 1 Client Backhoe(s) Water Truck Design Engineer Surveyor Motor Grader(s) Smooth Drum Compactor Surveyor Surveyor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor No map created due to previous nights rain. No map created due to rain out Image: Surveyor	Cool Warm Hot F7 Low Temp. (°F) 79 High Temp. (°F) ED: Clay Liner
Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2 REPORTING TIMES: FIELD TESTING PERFORM Depart Lab: 6:30 AM Depart Site: 8:00 AM Arrive Site: 6:45 AM Arrive Lab: 10:00 AM EQUIPMENT ONSITE: PERSONNEL ONSITE: PERSONNEL ONSITE: Dozer(s) Skidsteer 1 Client Backhoe(s) Water Truck Design Engineer Design Engineer Motor Grader(s) Smooth Drum Compactor Surveyor Surveyor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor No map created due to rain out No map created due to rain out No map created due to rain out	Hot 57 Low Temp. (°F) 79 High Temp. (°F) ED: Clay Liner
Technician: Scott McDonald Test Location: Cell 2 REPORTING TIMES: FIELD TESTING PERFORM Depart Lab: 6:30 AM Depart Lab: 6:45 AM Arrive Site: 6:45 AM Arrive Lab: 10:00 AM FRESONNEL ONSITE: Dozer(s) Skyjack Excavator(s) Skidsteer Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. No map created due to rain out	57 Low Temp. (°F) 79 High Temp. (°F) ED:
Test Location: Cell 2 REPORTING TIMES: FIELD TESTING PERFORM Depart Lab: 6:30 AM Depart Site: 8:00 AM Arrive Site: 6:45 AM Arrive Lab: 10:00 AM EQUIPMENT ONSITE: PERSONNEL ONSITE: 1 Dozer(s) Skijack 1 10:00 AM Excavator(s) Skidsteer 1 10:00 Contractor Backhoe(s) Water Truck 1 Contractor Haul Truck(s) Sheeps Foot Compactor Design Engineer Motor Grader(s) Smooth Drum Compactor Surveyor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Student to wet due to previous nights rain. No map created due to rain out	79 High Temp. (°F) ED:
REPORTING TIMES: FIELD TESTING PERFORM Depart Lab: 6:30 AM Depart Site: 8:00 AM Arrive Site: 6:45 AM Arrive Lab: 10:00 AM EQUIPMENT ONSITE: Dozer(s) Skijack Dozer(s) Skijack 1 Excavator(s) Skidsteer Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SumMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out	ED: Clay Liner
REPORTING TIMES: Depart Lab: 6:30 AM Depart Site: 8:00 AM Arrive Site: 6:45 AM Arrive Lab: 10:00 AM EQUIPMENT ONSITE:	ED: Subgrade Clay Liner
Depart Lab: 6:30 AM Depart Site: 8:00 AM Arrive Site: 6:45 AM Arrive Lab: 10:00 AM EQUIPMENT ONSITE:	Subgrade
Arrive Site: 6:45 AM Arrive Lab: 10:00 AM Shelby Tube(s) EQUIPMENT ONSITE:	Clay Liner
EQUIPMENT ONSITE: PERSONNEL ONSITE: Dozer(s) Skyjack Excavator(s) Skidsteer Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Summary OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out No map created due to rain out	
Dozer(s) Skyjack Excavator(s) Skidsteer Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out No map created due to rain out	
Excavator(s) Skidsteer Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out No map created due to rain out	Liner Crew
Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out	Liner Installer
Haul Truck(s) Sheeps Foot Compactor Design Engineer Motor Grader(s) Smooth Drum Compactor Surveyor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out No map created due to rain out	Concrete Crew
Motor Grader(s) Smooth Drum Compactor Surveyor QA/QC EXPECTATIONS:	Pipe Installer
QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out	Gas Line Inst.
QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out	
SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out	
SUMMARY OF ACTIVITIES OBSERVED: Ground to wet due to previous nights rain. No map created due to rain out	
Ground to wet due to previous nights rain. No map created due to rain out	
No map created due to rain out	
No map created due to rain out	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Mana	

	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report:	10/11/2018		()
Client Name:	American Electric Power	WEATHER:	
Contractor:	SFC	Clear	Cold
Project Name:	Turk Cell 2	Cloudy	
Location:	Fulton, AR	Partly Cloudy	Warm
Representative:	Greg Witte	Raining	Hot
Technician:	Scott McDonald	Windy	51 Low Temp. (°F)
Test Location:	Cell 2	Foggy / Misty	71 High Temp. (°F)
REPORTING TIM	ES:	FIELD TESTING PERFO	DRMED:
Depart Lab:	6:30 AM Depart Site: 5:30 PM	Moisture/Densi	ty Subgrade
Arrive Site:	6:45 AM Arrive Lab: 6:00 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
<u> 1 Dozer(s)</u>	Skyjack	<u>1</u> Client	Liner Crew
2 Excavator(s	s) <u>1</u> Skidsteer	10 Contractor	Liner Installer
Backhoe(s)	Water Truck	<u>1</u> CQA Consultant	Concrete Crew
2 Haul Truck	s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grad	der(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
QA/QC EXPECTA Observe contin	TIONS: ued placement of protective cover on cell floor.		
SUMMARY OF A	CTIVITIES OBSERVED:		
Contractor doze	er spread protective cover to grade on cell floor.	-	
Contractor plac	ed gravel in chimney drain.		
LIFTS WORKED A	ND COMPACTION EFFORTS:		
LIFTS:			
COMPACTION	EFFORTS:		
OPERATIONAL CO	ONCERNS & SOLUTIONS:		
Note: Copies of all	completed "Project Field Record Forms" are to be su	hmitted to the Project M	lanager at the end

of each day and should be maintained with the Project Records.



Project No: 3517127 (501) 847-929: Date of Report 10/12/2018 (501) 847-929: Client Name: American Electric Power WEATHER: Cold Contractor: SFC Project Name: Cilear Cold Project Name: Turk Cell 2 Partly Cloudy Warm Representative: Greg Witte Technician: Scott McDonald Partly Cloudy 68 High Temp. (*F) Pepart Lab: 6:15 AM Depart Site: 3:30 PM Arrive Site: 6:30 AM Arrive Lab: 4:00 PM EQUIPMENT ONSITE: Image: Contractor Uner Crew 2 Excavator(s) Skidsteer Backhoe(s) 1 Skidsteer Backhoe(s) Smooth Drum Compactor Design Engineer Pipe Installer SUMMARY OF ACTIVITIES OBSERVED: Contractor actor innued placement of protective cover from the east side cell floor in preparation to install chimney Contractor removed section of protective cover from the east side cell floor in preparation to install chimney Contractor welded hdpe pipe. Contractor welded hdpe pipe. Contractor welded hdpe pipe. Contractor welded hdpe pipe. Contractor welded	Daily Proje	ect Const	ruction Sun	nmary			25809 Interstate 30 South Bryant, AR 72022
Date of Report: 10/12/2018 Cellent Name: American Electric Power Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Gireg Witte Technician: Scott McDonald Technician: Scott McDonald Technician: Cell 2 Bepart Lab: 6:15 AM Depart Site: 3:30 PM Arrive Site: 6:30 AM Arrive Lab: 4:00 PM Backhoe(s) Water Truck 2 EQUIPMENT ONSITE: 1 Dozer(s) 2 Skeys Foot Compactor 2 Haul Truck(s) 3 Sheeps Foot Compactor 2 Gas Line Installer 2 Contractor recore 2 Gas Line Installer Surveyor Gas Line Installer 3 Singer Foot Compactor Subserve continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor relaced gravel in chimney drain. Contractor placed gravel in chimney drain. <th>Project No:</th> <th>35177127</th> <th>_</th> <th></th> <th></th> <th></th> <th>(501) 847-9292</th>	Project No:	35177127	_				(501) 847-9292
Client Name: American Electric Power Project Name: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2 Depart Lab: 6:15 AM Depart Lab: 6:15 AM The Port Lab: 6:15 AM Depart Site: 3:30 PM Arrive Site: 6:30 AM Arrive Lab: 4:00 PM EQUIPMENT ONSITE: Moisture/Density 1 Dozer(s) 2 Skidsteer Backhoe(s) Water Truck 2 Excavator(s) 1 Skidsteer Sing Engineer Pipe Installer Concractor Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. Observe continued placement of protective cover from the east side cell floor in preparation to install chimney. Gontractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. Contractor placed gravel in chim	Date of Report:	10/12/2018					
Contractor: SPLC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2 EFORTING TIMES: Depart Lab: 6:15 AM Depart Site: 3:30 PM Arrive Site: 6:30 AM Arrive Lab: 4:00 PM EQUIPMENT ONSITE: 1 Dozer(s) Skidster Backhoe(s) Water Truck 2 Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Sheeps Foot Compactor QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: Derex Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end		American El	ectric Power		WE	ATHER:	
Project Name: 1004 Cell 2 Color Location: Greg Witte Raining Hot Technician: Scott McDonald Windy 53 Low Temp. (*F) REPORTING TIMES: Depart Site: 3:30 PM Project Site: Site Site Site Site: Site Site Site Site: Site Site Site Site: Site Site Site Site Site: Site Site Site Site Site: Site Site Site Site: Site Site Site Site Site: Site Site Site Site: Site Site Site Site Site: Site Site Site: Site Site Site: Site Site: Site Site: Site Site: Site Site: Site Site: Site: <th>Contractor:</th> <th></th> <th></th> <th></th> <th></th> <th>Clear</th> <th></th>	Contractor:					Clear	
Doction: Initial AR Representative: Greg Witte Technician: Scott McDonald Technician: Cott McDonald Representative: Geg Witte Representative: Geg Witte Representative: Geg Witte Representative: Geg V Misty Bepart Lab: Geg V Misty Geg V Misty Skiprade Arrive Site: Geg V Misty Steps Tubic: Geg V Misty Steps Tubic: Skiprade Moisture/Density Subgrade Steps Tubic: Skiprade Moisture/Density Subgrade Moisture/Density Clay Liner PERSONNEL ONSTE: Uner Crew 1 Dozer(s) Skidsteer Backhoe(s) Water Truck Sontractor Quiner Installer Sontractor Motor Grader(s) Smooth Drum Compactor SumMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney Grain and hdpe pipe. Contractor removed section of protective cover from the east side cell floor in preparation to install chi	Project Name:					Cloudy Darthy Cloudy	
Representative: Grig Witte Ind Technician: Scott McDonald Windy SLOW Temp. (*F) Test Location: Cell 2 Windy SLOW Temp. (*F) REPORTING TIMES: Depart Lab: 6:15 AM Depart Site: 3:30 PM Arrive Site: 6:30 AM Arrive Lab: 4:00 PM Moisture/Density Subgrade EQUIPMENT ONSITE: 1 Skidsteer Backhoe(s) Water Truck PERSONNEL ONSITE: 1. Client Liner Crew Backhoe(s) Water Truck Shelps Tube(s) Clay Liner Design Engineer Pipe Installer Motor Grader(s) Smooth Drum Compactor Design Engineer Pipe Installer Surveyor Gas Line Inst. QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor Gas Line Inst. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. LIFTS Contractor placed gravel in chimney drain.	Location:	Fulton, AR				Partiy Cloudy	
Technican: SCOTTINCOUNTIC Test Location: Cell 2 REPORTING TIMES: Field DEsting PERFORMED: Depart Lab: 6:15 AM Depart Lab: 6:30 AM Arrive Site: 3:30 PM Marrive Site: 6:30 AM Arrive Site: 5:00 AM Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITES OBSERVED: Contrac	Representative:	Scott McDo	nald			Mindy	Hot E2 Low Tomp (°E)
Test Docation: Cen 2 REPORTING TIMES: Depart Lab: 6:15 AM Depart Lab: 6:15 AM Arrive Lab: 3:30 PM Arrive Site: 6:30 AM Arrive Lab: 4:00 PM EQUIPMENT ONSITE:	Technician:		IIdiu			Foggy / Misty	68 High Tomp (°E)
REPORTING TIMES: Depart Lab: 6:15 AM Depart Site: 3:30 PM Arrive Site: 6:30 AM Arrive Lab: 4:00 PM EQUIPMENT ONSITE: Skidsteer Skidsteer 1 Dozer(s) 5 Kiylack Liner Crew 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck Source Compactor Sign Engineer Motor Grader(s) Smooth Drum Compactor Design Engineer Pipe Installer OA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor Gas Line Inst. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS COMPACTION EFFORTS: Compact Field Record Forms" are to be submitted to the Project Manager at the end	Test Location:					l oggy / Wilsty	
Depart Lab: 6:15 AM Depart Site: 3:30 PM Arrive Site: 6:30 AM Arrive Lab: 4:00 PM EQUIPMENT ONSITE: Image: Skyjack Skidsteer 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 8 Contractor Liner Crew 2 Haul Truck(s) Sneeps Foot Compactor Surveyor Gas Line Installer OA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor Gas Line Installer Contractor removed section of protective cover from the east side cell floor in preparation to install chimney. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS UIFTS Compaction S OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS as SOLUTIONS:	REPORTING TIME	ES:			FIE	LD TESTING PERFOR	MED:
Arrive Site: 6:30 AM Arrive Lab: 4:00 PM Shelby Tube(s) Clay Liner EQUIPMENT ONSITE: 1 Skidsteer Backhoe(s) 1 Skidsteer Backhoe(s) 1 Skidsteer Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor Gas Line Inst. Observe continued placement of protective cover from the east side cell floor in preparation to install chimney. drain and hdpe pipe. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. EIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS: Vote: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Depart Lab:	6:15 AM	Depart Site:	3:30 PM		Moisture/Density	Subgrade
EQUIPMENT ONSITE: 1 Dozer(s) 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 2 Haul Truck(s) Sheeps Foot Compactor Design Engineer Motor Grader(s) Smooth Drum Compactor OA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney. drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS UIFTS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS:	Arrive Site:	6:30 AM	Arrive Lab:	4:00 PM		Shelby Tube(s)	Clay Liner
1 Dozer(s) Skyjack 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 1 Contractor Liner Installer 1 CQA Consultant Concrete Crew Design Engineer Pipe Installer Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. 0 OA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Surveyor Gas Line Inst. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: Descret Field Record Forms" are to be submitted to the Project Manager at the end	EQUIPMENT ONS	ITE:			PEF	SONNEL ONSITE:	
2 Excavator(s) 1 Skidsteer Liner Installer Backhoe(s) Water Truck 1 CQA Consultant Concrete Crew 2 Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer Motor Grader(s) Smooth Drum Compactor 0 Design Engineer Pipe Installer QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. 0 0 0 SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. 0 0 Contractor placed gravel in chimney drain. 0 0 0 0 LIFTS WORKED AND COMPACTION EFFORTS: 0 0 0 0 0 UFTS WORKED AND COMPACTION EFFORTS: 0	1 Dozer(s)		Skyjack		1	Client	Liner Crew
Backhoe(s) Water Truck 2 Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor Design Engineer QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney. drain and hdpe pipe. Contractor placed gravel in chimney drain. UFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: Operation of project Field Record Forms" are to be submitted to the Project Manager at the end	2 Excavator(s	;) 1	Skidsteer		8	Contractor	Liner Installer
2 Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer GA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney. drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS:	Backhoe(s)	_	Water Truck		1	CQA Consultant	Concrete Crew
Motor Grader(s)Smooth Drum CompactorSurveyorGas Line Inst. QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	2 Haul Truck(s)	Sheeps Foot Cor	mpactor		Design Engineer	Pipe Installer
QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Motor Grad	der(s)	Smooth Drum C	ompactor		Surveyor	Gas Line Inst.
QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney. drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end				<u>.</u>			
Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	QA/QC EXPECTA	TIONS:					
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Observe contin	ued placeme	nt of protective co	over on cell floor	<u>-</u>		
Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	SUMMARY OF A	CTIVITIES OBSI	ERVED:				
drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: UIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Contractor rem	oved section	of protective cov	er from the east	side ce	ll floor in preparati	ion to install chimney
Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	drain and hdpe	pipe.	•				5
Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Contractor weld	ded hdpe pip	<u>e.</u>				
Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end							
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Contractor plac	ed gravel in c	<u>chimney drain.</u>				
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end							
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end							
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end							
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end							
LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	LIFTS WORKED A	ND COMPACT	ION EFFORTS:				
COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	LIFTS:						
COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end							
OPERATIONAL CONCERNS & SOLUTIONS: Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	COMPACTION	EFFORTS:					
Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	OPERATIONAL CO	ONCERNS & SC	DLUTIONS:				
Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end							
Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end							
	Note: Copies of all	completed "P	roject Field Record	Forms" are to be s	ubmitte	d to the Project Mar	nager at the end



Daily Project	Construction Summary	25809 Interstate 30 South
Project No: 351	.77127	(501) 847-9292
Date of Report: 10/	/13/2018	
Client Name: Am	erican Electric Power WEATHER:	
Contractor: SFC	Clear	Cold
Project Name: Tur	k Cell 2 Cloudy	Cool
Location: Full	ton, AR Partly Clou	udy 🗌 Warm
Representative: Gre	eg Witte Raining	Hot
Technician: Sco	tt McDonald Windy	61 Low Temp. (°F)
Test Location: Cel	I 2 Foggy / M	isty <u>64</u> High Temp. (°F)
REPORTING TIMES:	FIELD TESTING	PERFORMED:
Depart Lab: 6:15	AM Depart Site: 7:30 AM Moisture/	'Density Subgrade
Arrive Site: 6:30	AM Arrive Lab: 9:30 AM Shelby Tul	be(s) 🗌 Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ON	NSITE:
Dozer(s)	Skyjack <u>1</u> Client	Liner Crew
Excavator(s)	Skidsteer 10 Contracto	r Liner Installer
Backhoe(s)	Water Truck 1 CQA Cons	ultant Concrete Crew
Haul Truck(s)	Sheeps Foot Compactor Design En	gineer Pipe Installer
Motor Grader(s)	Smooth Drum Compactor Surveyor	Gas Line Inst.
QA/QC EXPECTATION	S:	
Observe continued	placement of protective cover on cell floor.	
SUMMARY OF ACTIVI	TIES OBSERVED:	
Ground to wet due	to previous nights rain. Expected rain in forcast.	
No map created due	<u>e to rain out</u>	
	COMPACTION EFFORTS:	
COMPACTION EFFO	PRTS:	
OPERATIONAL CONCE	RNS & SOLUTIONS:	
Note: Copies of all com	pleted "Project Field Record Forms" are to be submitted to the Pro	ject Manager at the end
of each day and	should be maintained with the Project Records.	

Daily Proje	ect Construction Summa	у		25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report:	10/22/2018	_		
Client Name:	American Electric Power	,	WEATHER:	
Contractor:	SFC		Clear	Cold
Project Name:	Turk Cell 2		Cloudy	Cool
Location:	Fulton, AR		Partly Cloudy	Warm
Representative:	Greg Witte		Raining	Hot
Technician:	Scott McDonald		Windy	38 Low Temp. (°F)
Test Location:	Cell 2	L	Foggy / Misty	65 High Temp. (°F)
REPORTING TIME	ES:		FIELD TESTING PERFOR	RMED:
Depart Lab:	9:30 AM Depart Site: 6:15	PM	Moisture/Density	Subgrade
Arrive Site:	12:00 PM Arrive Lab: 6:45	PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:		PERSONNEL ONSITE:	
2 Dozer(s)	Skyjack		1 Client	Liner Crew
1 Excavator(s) <u>1</u> Skidsteer		5 Contractor	Liner Installer
Backhoe(s)	Water Truck		1 CQA Consultant	Concrete Crew
Haul Truck(s) Sheeps Foot Compacto	· -	Design Engineer	Pipe Installer
Motor Grad	ler(s) Smooth Drum Compact	or -	Surveyor	Gas Line Inst.
QA/QC EXPECTA Observe contin	TIONS: ued placement of protective cover or	n cell floor.		
Contractor weld	ded hdpe pipe.			
Contractor rem drain and hdpe	oved section of protective cover fror pipe.	<u>n the east side</u>	cell floor in preparat	tion to install chimney
LIFTS WORKED A	ND COMPACTION EFFORTS:			
LIFTS:				
COMPACTION	EFFORTS:			
OPERATIONAL CO	ONCERNS & SOLUTIONS:			
Note: Copies of all	completed "Project Field Record Forms" and should be maintained with the Proje	are to be submi	itted to the Project Ma	nager at the end



Project No: 35/17127 (501) 847-925 Date of Report: 10/23/2018 Client Name: American Electric Power Contractor: SFC Cloudy Cool Project Name: Turk Cell 2 Cloudy Cool Location: Fult On, AR Partly Cloudy Warm Representative: Greg Witte Partly Cloudy Warm Test Location: Cell 2 Foggy / Misty 67 REPORTING TIMES: Depart lab: 6:15 AM Depart Site: 6:00 PM Depart Lab: 6:30 AM Arrive Lab: 6:15 PM Subgrade EQUIPMENT ONSITE: Skipack Shelby Tube(s) Clay Liner EQUIPMENT ONSITE: Skipack 10 Clao Consultant Concrete Crew 2 Excavator(s) 1 Skidsteer 2 Consultant Concrete Crew 2 Haul Truck(s) Sneeps Foot Compactor Besign Engineer Pipe Installer 3 Smooth Drum Compactor Surveyor Gas Line Inst. QA/QC EXPECTATIONS: Contractor removed section of protective cover on cell floor. Surveyor Gas Line Inst. <td< th=""><th>Daily Proje</th><th>ect Construction Summary</th><th></th><th>25809 Interstate 30 South Bryant, AR 72022</th></td<>	Daily Proje	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022
Date of Report: 1/12/3/2018 Client Name: American Electric Power Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Scott McDonald Test Location: Cell 2 Depart Lab: 6:15 AM Depart Lab: 6:30 AM Arrive Site:	Project No:	35177127		(501) 847-9292
Client Name: Anterit Call Elect (II: Power) Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Test hostion: Cell 2 Depart Lab: 6:15 AM Depart Lab: 6:15 AM Depart Lab: 6:15 AM Depart Lab: 6:30 AM Arrive Lab: 6:30 AM Arrive Lab: 6:30 AM Arrive Lab: 6:15 PM EQUIPMENT ONSITE: Moisture/Density Shelby Tube(s) Clay Liner EQUIPMENT ONSITE: Skylack 2 Excavator(s) 1 3 Shelby Tube(s) Clay Liner forew 8 Contractor Liner forew 8 Smooth Drum Compactor 8 0bserve continued placement of protective cover on cell floor. Surveyor SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. UFTS WORKED AND COMPACTION EFFORTS: LIFTS COMPACTION EFFORTS: Contractor placed gravel in chimney drain. <td>Date of Report:</td> <td>10/23/2018</td> <td>WEATUED.</td> <td></td>	Date of Report:	10/23/2018	WEATUED.	
Contractor SPC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Soct McDonald Test Location: Cell 2 Peport Lab: 6:15 AM Depart Lab: 6:15 AM Arrive Site: 6:30 AM Arrive Lab: 6:15 PM Packnow(s) Skyjack 1 Dozer(s) 2 Kacavator(s) 3 Skyjack 2 Haul Truck(s) 3 Shelby Tube(s) Claid Truck Cold Cell Cell Cell Cell Cell Cell Cell Ce	Client Name:		WEATHER:	
Project Name: Turk CEII 2 Cool Cool Location: Fulton, AR Partly Cloudy Warm Representative: Greg Witte Partly Cloudy Hot Technician: Scott McDonald Partly Cloudy Hot Representative: Greg Witte Partly Cloudy Hot Partly Cloudy Astrona Hot Raining Hot Representative: Greg Witte FELD TESTING PERFORMED: Depart Site: Good PM Arrive Site: 6:15 AM Depart Site: Bolby Tube(s) Clay Liner EQUIPMENT ONSITE: PERSONNEL ONSITE: Inclinent Centrew Subgrade 1 Dozer(s) Skylack Scavator(s) 1 Skidsteer 2 Excavator(s) Sheeps Foot Compactor Bolt Consultant Concrete Crew 2 Haul Truck(s) Sheeps Foot Compactor Surveyor Gas Line Inst. Observe continued placement of protective cover on cell floor. Surveyor Gas Line Inst. Submary of Activities OBSERVED: Contractor medded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS Compaction of protecti	Contractor:			
Dotation: Filter Representative: Greg Witte Technician: Scott McDonald Representative: Greg Witte Test Location: Cell 2 Depart Lab: 6:15 AM Depart Lab: 6:15 AM Depart Lab: 6:15 AM Depart Site: 6:00 PM Arrive Site: 6:30 AM Arrive Lab: 6:15 PM EQUIPMENT ONSITE: PERSONNEL ONSITE: 1 Dozer(s) Skidsteer 2 Excavator(s) 1 1 Skidsteer 1 Backhoe(s) Water Truck 2 2 Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor Design Engineer Observe continued placement of protective cover on cell floor. Surveyor Summary OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: <	Project Name:			
Representative: Significant Micconstant Indianting Indianting Indianting Technician: South Micconstant South Micconstant Indianting Indianting Test Loadition: Cell 2 Indianting Indianting Indianting Depart Lab: 6:15 AM Depart Site: 6:00 PM Indianting Indianting Arrive Site: 6:30 AM Arrive Lab: 6:15 PM Indianting Subgrade EQUIPMENT ONSITE: Indianting Skidsteer Indianting Shelby Tube(s) Clay Liner Backhoe(s) Instruck(s) Sheeps Foot Compactor Besign Engineer Pipe Installer Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. Observe continued placement of protective cover on cell floor. Surveyor Gas Line Inst. Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. Internet contractor removed section to install chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: Internet contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain. Contractor placed gravel in chimney drain. Internet contremoved section o	Location:	Fulton, AR		
Test Location: Gell 2 REPORTING TIMES: FIELD TESTING PERFORMED: Depart Lab: 6:15 AM Arrive Site: 6:30 AM Arrive Lab: 6:15 PM Moisture/Density Gal Wilder Colument of the second of th	Tochnician	Scott McDonald	Windy	18 Low Temp (°E)
REPORTING TIMES:	Test Location:			43 Low Temp. (1) 67 High Temp. (°F)
REPORTING TIMES:				
Depart Lab: 6:15 AM Depart Site: 6:00 PM Moisture/Density Subgrade Arrive Site: 6:30 AM Arrive Lab: 6:15 PM Image: Shelby Tube(s) Clay Liner EQUIPMENT ONSITE: Image: Skyjack Ima	REPORTING TIM	ES:	FIELD TESTING PERFO	DRMED:
Arrive Site: 6:30 AM Arrive Lab: 6:15 PM Shelby Tube(s) Clay Liner EQUIPMENT ONSITE:	Depart Lab:	6:15 AM Depart Site: 6:00 PM	Moisture/Densit	ty 🗌 Subgrade
EQUIPMENT ONSITE:	Arrive Site:	6:30 AM Arrive Lab: 6:15 PM	Shelby Tube(s)	Clay Liner
1 Dozer(s) Skyjack 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 1 COMtractor 2 Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: Compaction Securition Securities OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS:	EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
2 Excavator(s) 1 Skidsteer Liner Installer Backhoe(s) Water Truck 1 CQA Consultant Concrete Crew 2 Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain.	<u> 1 Dozer(s)</u>	Skyjack	<u>1</u> Client	Liner Crew
Backhoe(s) Water Truck Concrete Crew Paul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer GA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: Compaction Stall concerns & solutions:	2 Excavator(s	s) <u>1</u> Skidsteer	8 Contractor	Liner Installer
2 Haul Truck(s) Sheeps Foot Compactor Design Engineer Pipe Installer Gas Line Inst. Smooth Drum Compactor Design Engineer Gas Line Inst. QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. Summary of ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: Compaction Efforts: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS:	Backhoe(s)	Water Truck	1 CQA Consultant	Concrete Crew
Motor Grader(s) Smooth Drum Compactor Surveyor Gas Line Inst. QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS: OPERATIONAL CONCERNS & SOLUTIONS:	2 Haul Truck	s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Motor Grad	der(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:				
Diserve continued placement of protective cover on cell floor. SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	QA/QC EXPECTA	TIONS:		
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Observe contin	ued placement of protective cover on cell floor.		
Contractor removed section of protective cover from the east side cell floor in preparation to install chimney drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain.	SUMMARY OF A	CTIVITIES OBSERVED:		
drain and hdpe pipe. Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Contractor rem	oved section of protective cover from the east s	ide cell floor in prepara	ation to install chimney
Contractor welded hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	drain and hdpe	pipe.		
Contractor placed gravel in chimney drain.	Contractor well	ded hdpe pipe.		
Contractor placed gravel in chimney drain.				
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	Contractor plac	ed gravel in chimney drain.		
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:				
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:				
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:				
LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:				
LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	LIFTS WORKED A	ND COMPACTION EFFORTS:		
COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	LIFTS:			
COMPACTION EFFORTS:				
OPERATIONAL CONCERNS & SOLUTIONS:	COMPACTION	EFFORTS:		
OPERATIONAL CONCERNS & SOLUTIONS:				
	OPERATIONAL C	ONCERNS & SOLUTIONS:		
Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end	Note: Copies of all	completed "Project Field Record Forms" are to be su	bmitted to the Project M	lanager at the end



Daily Proje	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022
Project No:	35177127		(501) 847-9292
Date of Report:	<u>10/24/2018</u>		
Client Name:	American Electric Power	WEATHER:	
Contractor:		Clear	
Project Name:		Cloudy	
Location:	Fulton, AR		Warm
Representative:	Greg Witte		Hot
Technician:			47 Low Temp. (*F)
Test Location:	Cell 2	Foggy / Misty	66 High Temp. (°F)
REPORTING TIM	ES:	FIELD TESTING PERI	ORMED:
Depart Lab:	6:15 AM Depart Site: 6:15 PM	Moisture/Dens	sity Subgrade
Arrive Site:	6:30 AM Arrive Lab: 6:45 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:	PERSONNEL ONSITE	: :
<u> 1 </u> Dozer(s)	Skyjack	<u>1</u> Client	Liner Crew
2 Excavator(s) <u>1</u> Skidsteer	8 Contractor	Liner Installer
Backhoe(s)	Water Truck	<u>1</u> CQA Consultar	nt Concrete Crew
2 Haul Truck	s) Sheeps Foot Compactor	Design Engine	er Pipe Installer
Motor Grad	ler(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
Observe contin	ued placement of protective cover on cell floor.		
SUMMARY OF A	CTIVITIES OBSERVED:		
Contractor rem	oved section of protective cover from cell floor i	n preparation to inst	all chimney drain and
<u>hdpe pipe.</u>			
Contractor wel	ded hdpe pipe.		
LIFTS WORKED A	ND COMPACTION EFFORTS:		
LIFTS:			
COMPACTION	EFFORTS:		
	ONCERNS & SOLUTIONS:		
Note: Conies of all	completed "Project Field Record Forms" are to be su	hmitted to the Project	Manager at the end

of each day and should be maintained with the Project Records.

Daily Proje	ect Const	ruction Sun	nmary		25809 Interstate 30 South Bryant, AR 72022
Project No:	35177127	_			(501) 847-9292
Date of Report:	10/25/2018	_			
Client Name:		ectric Power		WEATHER:	
Contractor:					
Project Name:	Turk Cell 2				
Location:	Fulton, AR			Partiy Cloud	y Warm
Representative:	Greg Witte	. 1.1			Hot
Technician:	Scott McDor	ald			51 Low Temp. (°F)
Test Location:	Cell 2			Foggy / Mis	ty <u>55</u> High Temp. (°F)
REPORTING TIME	ES:			FIELD TESTING P	ERFORMED:
Depart Lab:	6:30 AM	Depart Site:	9:15 AM	Moisture/D	ensity 🗌 Subgrade
Arrive Site:	7:00 AM	Arrive Lab:	12:00 PM	Shelby Tube	e(s) 🗌 Clay Liner
EQUIPMENT ONS	ITE:		 		ITE:
Dozer(s)		Skviack		1 Client	Liner Crew
Excavator(s	;)			10 Contractor	Liner Installer
Backhoe(s)	,	Water Truck		1 CQA Consul	tant Concrete Crew
Haul Truck(s)	Sheeps Foot Cor	mpactor	Design Engi	neer Pipe Installer
 Motor Grad	der(s)	 Smooth Drum C	ompactor	Surveyor	Gas Line Inst.
		_			
QA/QC EXPECTA	TIONS:				
Observe contin	ued placemen	t of protective c	over on cell floor.		
SUMMARY OF A		RVED:			
Rain Out					
No man creater	due to rain c	.			
<u>No map created</u>					
Meeting					
LIFTS WORKED A	ND COMPACTI	ON EFFORTS:			
LIFTS:					
COMPACTION	EFFORTS:				
OPERATIONAL CO	ONCERNS & SO	LUTIONS:			
Note: Copies of all	completed "Pr	oject Field Record	Forms" are to be sub	omitted to the Proje	ct Manager at the end



Project No: 35177127	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report: 10/27/2018	[
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear Cold
Project Name: Turk Cell 2	
Location: Fulton, AR	Partiv cloudy Warm
Representative: Greg Witte	
	U vvindy <u>48</u> Low Temp. (F)
	BI High Temp. ("F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 9:15 AM Depart Site: 6:15 PM	Moisture/Density Subgrade
Arrive Site: 11:45 AM Arrive Lab: 6:45 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
1 Dozer(s) Skyjack	1 Client Liner Crew
2 Excavator(s) 1 Skidsteer	12 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	Surveyor Gas Line Inst.
QA/QC EXPECTATIONS: Observe continued placement of protective cover on cell flo	
	<u>or.</u>
SUMMARY OF ACTIVITIES OBSERVED:	<u>or.</u>
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ea	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ea drain and hdpe pipe.	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ea drain and hdpe pipe. Contractor placed gravel in chimney drain.	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ear drain and hdpe pipe. Contractor placed gravel in chimney drain.	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ea drain and hdpe pipe. Contractor placed gravel in chimney drain.	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ear drain and hdpe pipe. Contractor placed gravel in chimney drain.	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ead drain and hdpe pipe. Contractor placed gravel in chimney drain.	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ear drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS:	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ead drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS:	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the earner of the ear	or. st side cell floor in preparation to install chimney
SUMMARY OF ACTIVITIES OBSERVED: Contractor removed section of protective cover from the ead drain and hdpe pipe. Contractor placed gravel in chimney drain. LIFTS WORKED AND COMPACTION EFFORTS: LIFTS: COMPACTION EFFORTS: OPERATIONAL CONCERNS & SOLUTIONS:	or. st side cell floor in preparation to install chimney.

of each day and should be maintained with the Project Records.

1



Daily Project No:	ast177127		25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report:	10/28/2018	· · · · · · · · · · · ·	
Client Name:	American Electric Power	WEATHER:	
Contractor:	SFC	Clear	
Project Name:	Turk Cell 2		
Location:	Fulton, AR	Partly Cloudy	Warm
Representative:	Greg Witte		Hot
Technician:	Scott McDonald		47 Low Temp. (°F)
Test Location:	Cell 2	Foggy / Misty	76 High Temp. (°F)
REPORTING TIME	ES:	FIELD TESTING PERFOR	RMED:
Depart Lab:	6:30 AM Depart Site: 6:15 PM	Moisture/Density	/ Subgrade
Arrive Site:	7:00 AM Arrive Lab: 6:45 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
<u> 1 </u> Dozer(s)	Skyjack	<u>1</u> Client	Liner Crew
2 Excavator(s	s) <u>1</u> Skidsteer	<u>12</u> Contractor	Liner Installer
Backhoe(s)	Water Truck	<u>1</u> CQA Consultant	Concrete Crew
4 Haul Truck(s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grad	der(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
Observe contin	ued placement of protective cover on cell floor.		
SUMMARY OF A	CTIVITIES OBSERVED:		
Contractor rem	oved section of protective cover from the cell flo	oor in preparation to ins	stall chimney drain and
<u>hdpe pipe.</u>			
Contractor plac	ed gravel in chimney drain.		
Contractor weld	ded chimney drain.		
LIFTS WORKED A	ND COMPACTION EFFORTS:		
LIFTS:			
COMPACTION	EFFORTS:		
OPERATIONAL CO	ONCERNS & SOLUTIONS:		
Note: Copies of all	completed "Project Field Record Forms" are to be su	bmitted to the Project Ma	nager at the end



Daily Proje	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022
Project No:	35177127		(501) 847-9292
Date of Report:	10/29/2018		
Client Name:	American Electric Power	WEATHER:	
Contractor:		Clear	
Project Name:			
Location:	Fulton, AR		Vvarm
Representative:	Scott McDonald		E2 Low Temp (°E)
Technician:		Eoggy / Misty	80 High Temp. (°E)
REPORTING TIM	ES:	FIELD TESTING PERFO	RMED:
Depart Lab:	6:30 AM Depart Site: 6:45 PM	Moisture/Densit	y 🗌 Subgrade
Arrive Site:	7:00 AM Arrive Lab: 7:15 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
1 Dozer(s)	Skyjack	1 Client	Liner Crew
2 Excavator(s	s) <u>1</u> Skidsteer	12 Contractor	Liner Installer
Backhoe(s)	Water Truck	1 CQA Consultant	Concrete Crew
4 Haul Truck	s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grad	der(s) Smooth Drum Compactor	Surveyor	Gas Line Inst.
QA/QC EXPECTA	TIONS:		
Observe contin	ued placement of protective cover on cell floor.		
SUMMARY OF A	CTIVITIES OBSERVED:		
Contractor wel	ded chimney drain.		
Contractor plac	<u>ed chimney drain in ditch</u>		
Contractor cut	protective cover from borrow area		
Contractor hau	lers transported protective cover material to no	orth berm then offloade	<u>d.</u>
Contractor dos			
Contractor doz	er spread material on north slope		
LIFTS WORKED A	ND COMPACTION EFFORTS:		
LIFTS:			
COMPACTION	EFFORTS:		
OPERATIONAL C	ONCERNS & SOLUTIONS:		
Note: Copies of al	I completed "Project Field Record Forms" are to be su	ubmitted to the Project M	anager at the end


Daily Project Construction Su	Immary		25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u>			(501) 847-9292
Client Name: American Electric Power			
Contractor: SEC		Clear	Cold
Project Name: Turk Cell 2			
Location: Fulton AR		Partly Cloudy	Warm
Representative: Greg Witte		Raining	
Technician: Scott McDonald		Windy	60 Low Temp. (°F)
Test Location: Cell 2		Foggy / Misty	80 High Temp. (°F)
REPORTING TIMES:		FIELD TESTING PERFO	RMED:
Depart Lab: 6:30 AM Depart Site:	6.15 PM	Moisture/Densit	Subgrade
Arrive Site: 7:00 AM Arrive Lab:	6:30 PM	Shelby Tube(s)	
	0.501101		
EQUIPMENT ONSITE:		PERSONNEL ONSITE:	
2 Dozer(s) Skyjack		<u>1</u> Client	Liner Crew
3 Excavator(s) 1 Skidsteer		<u>16</u> Contractor	Liner Installer
Backhoe(s) Water Truck		<u>1</u> CQA Consultant	Concrete Crew
4 Haul Truck(s) Sheeps Foot C	Compactor		Pipe Installer
Motor Grader(s) Smooth Drum	Compactor	Surveyor	
Observe continued placement of protective	cover on cell floor.		
Contractor welded chimney drain.			
Contractor placed chimney drain in ditch an	d added gravel.		
Contractor cut protective cover from chimn	<u>ey drain.</u>		
Contractor haulers transported protective c	over material to wes	t berm then offloaded	<u>.</u>
Contractor dozer spread material on west sl	<u>ope</u>		
LIFTS WORKED AND COMPACTION EFFORTS:			
LIFTS:			
COMPACTION EFFORTS:			
OPERATIONAL CONCERNS & SOLUTIONS:			
Note: Copies of all completed "Project Field Reco	d Forms" are to be sub	mitted to the Project M	anager at the end
of each day and should be maintained with	the Project Records.		



Daily Project Construction Summary	25809 Interstate 30 South Bryant AB 72022
Project No: <u>35177127</u>	(501) 847-9292
Date of Report: 10/31/2018	[
Client Name: American Electric Power	
Contractor: SFC	
	Cloudy Cool
Poprocentative: Greg Witte	- Raining Hot
Technician: Scott McDonald	$- \qquad \qquad$
Technician: Scott McDonaid	$- \qquad \qquad$
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:30 AM Depart Site: 5:15 PM	Moisture/Density Subgrade
Arrive Site: 7:00 AM Arrive Lab: 5:30 PM	_ Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Skyjack	1 Client Liner Crew
3 Excavator(s) 1 Skidsteer	16 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
4 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe continued placement of protective cover on cell flo	<u>oor.</u>
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor welded chimney drain.	
<u>Contractor placed chimney drain in ditch and added gravel.</u>	
Contractor cut protective cover from chimney drain.	
Contractor haulers transported protective cover material to	o west berm then offloaded.
Contractor dozer spread material on west slope	
LIFTS WORKED AND COMPACTION EFFORTS:	
LIFTS:	
COMPACTION EFFORTS:	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be of each day and should be maintained with the Project Reco	pe submitted to the Project Manager at the end rds.



Daily Proje	ect Const	ruction Sun	nmary		_ "	25809 Interstate 30 Sout Bryant, AR 7202
Project No:	35177127	_				(501) 847-9292
Date of Report:	11/1/2018	_				
Client Name:	American Ele	ectric Power		WEATHE	R:	
Contractor:	SFC			Clea	r	Cold
Project Name:	Turk Cell 2				ıdy	Cool
Location:	Fulton, AR			Part	ly Cloudy	Warm
Representative:	Greg Witte			Rain	ing	Hot
Technician:	Scott McDor	nald		Win Win	dy	50 Low Temp. (°F)
Test Location:	Cell 2			Fogg	gy / Misty	58 High Temp. (°F)
REPORTING TIMI	ES:			FIELD TES	TING PERFOR	RMED:
Depart Lab:	6:30 AM	Depart Site:	7:15 AM	🗌 Moi	sture/Density	Subgrade
Arrive Site:	7:00 AM	Arrive Lab:	9:45 AM	Shel	by Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:			PERSONN	IEL ONSITE:	
Dozer(s)		Skyjack		1 Clier	nt	Liner Crew
Excavator(s	s)	Skidsteer		10 Con	tractor	Liner Installer
Backhoe(s)	·	Water Truck		1 CQA	Consultant	Concrete Crew
Haul Truck	(s)	Sheeps Foot Cor	mpactor	Desi	ign Engineer	Pipe Installer
Motor Grad	der(s)	 Smooth Drum C	ompactor	Surv	veyor	Gas Line Inst.
QA/QC EXPECTA	TIONS:					
Observe contin	ued placemer	it of protective co	over on cell floor.			
SUMMARY OF A	CTIVITIES OBSE	RVED:				
<u>Rain Out</u>						
No map created	d due to rain d	out				
<u></u>						
LIFTS WORKED A	ND COMPACTI	ON EFFORTS:				
LIFTS:						
COMPACTION	EFFORTS:					
OPERATIONAL CO	ONCERNS & SO	LUTIONS:				
Note: Copies of all	l completed "Pr and should be	oject Field Record	Forms" are to be su	bmitted to th	ne Project Ma	nager at the end

Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022	
Project No: <u>35177127</u>	(501) 847-9292	
Date of Report: <u>11/11/2018</u>	Г	
Client Name: American Electric Power	WEATHER:	
Contractor: SFC	Clear X Cold	
Project Name: Turk Cell 2	X Cloudy X Cool	
Location: Fulton, AR	Partly Cloudy Warm	
Representative: Greg Witte	Hot	
Technician: Matt Acree	Windy <u>39</u> Low Temp. (°F)	
	High Temp. (*F)	
REPORTING TIMES:	FIELD TESTING PERFORMED:	
Depart Lab: 5:00 AM Depart Site: 5:00 PM	Moisture/Density Subgrade	
Arrive Site: 7:00 AM Arrive Lab: 7:00 PM	Shelby Tube(s) Clay Liner	
EQUIPMENT ONSITE:	PERSONNEL ONSITE:	
<u>3</u> Dozer(s) <u>Skyjack</u>	<u>1</u> Client Liner Crew	
<u>3</u> Excavator(s) <u>1</u> Skidsteer	<u><u><u></u><u></u><u><u></u><u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u>	
Backhoe(s) Water Truck	CQA ConsultantConcrete Crew	
Haui Truck(s) Sneeps Foot Compactor	Design Engineer ripe installer	
QA/QC EXPECTATIONS:		
Observe continued placement of protective cover in cell hoor.		
SUMMARY OF ACTIVITIES OBSERVED:		
Contractor laborers shoveled wet material from main leachate li	ine trench.	
Contractor excavator scooped washed stone stockpile and loade	ed into haul trucks. Also unloaded from haul	
trucks and placed it around installed pipe.		
Contractor haul trucks transported washed stone from staging a	rea to cell floor.	
Contractor dozer graded protective cover.		
OPERATIONAL CONCERNS & SOLUTIONS:		



Daily Proje	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022 (501) 847 2022
Project No:	<u>351//12/</u> 11/15/2018		(501) 847-9292
Client Name:	American Electric Power	WFATHER:	
Contractor:	SEC	x Clear	X Cold
Project Name:	Turk Cell 2		
Location:	Fulton, AR	Partly Cloudy	Warm
Representative:	Greg Witte	Raining	Hot
Technician:	Matt Acree	Windy	35 Low Temp. (°F)
Test Location:	Cell 2	Foggy / Misty	58 High Temp. (°F)
REPORTING TIME	ES:	FIELD TESTING PERFOR	MED:
Depart Lab:	7:00 AM Depart Site: 5:00 PM	Moisture/Density	Subgrade
Arrive Site: 1	L0:00 AM Arrive Lab: 7:00 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
1 Dozer(s)	Skyjack	1 Client	Liner Crew
2 Excavator(s) <u>1</u> Skidsteer	14 Contractor	Liner Installer
Backhoe(s)	Water Truck	CQA Consultant	Concrete Crew
Haul Truck(s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grad	ler(s) Smooth Drum Compactor	<u>1</u> Surveyor	Gas Line Inst.
Observe excava	tion of protective cover and installation of HDPE	Eleachate line.	
SUMMARY OF AC	CTIVITIES OBSERVED:		
Contractor labo	rers shoveled wet material excavated area.		
Contractor exca	avator excavated protective cover from cross-jun	iction to west berm.	
Contractor doze	er graded protective cover.		
OPERATIONAL CO	DNCERNS & SOLUTIONS:		
Note: Copies of all	completed "Project Field Record Forms" are to be su	bmitted to the Project Mar	nager at the end



Daily Project Construction Summary Project No: 35177127	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report: <u>11/16/2018</u>	F
Client Name: American Electric Power	WEATHER:
Contractor: SFC	X Clear X Cold
Project Name: Turk Cell 2	Cloudy X Cool
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	
Technician: Matt Acree	Windy <u>37</u> Low Temp. (°F)
Test Location: Cell 2	1 Foggy / Misty 69 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 4:45 AM Depart Site: 5:00 PM	Moisture/Density Subgrade
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s) Clay Liner
	PERSONNEL ONSITE:
2 Dozer(s) Skyjack	1 Client Liner Crew
3 Excavator(s) 1 Skidsteer	14 Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.
QA/QC EXPECTATIONS: Observe excavation of protective cover and installation of HDPE	leachate line.
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor laborers fusion welded HDPE pipe.	
Contractor excavator excavated protective cover from cross-jun	ction to east berm. Also helped place HDPE
pipe in trenches.	
Contractor dozer graded protective cover.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be sul	bmitted to the Project Manager at the end



Daily Project Construction Summary Project No: 35177127	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report: <u>11/17/2018</u>	
Client Name: American Electric Power	WEATHER:
Contractor: SFC	x Clear Cold
Project Name: Turk Cell 2	Cloudy 🔀 Cool
Location: Fulton, AR	Partly Cloudy X Warm
Representative: Greg Witte	Raining Hot
Technician: Matt Acree	Windy 44 Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 72 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:20 AM Depart Site: 5:00 PM	Moisturo/Donsity Subgrade
Arrive Site: 6:45 AM Arrive Lab: 5:45 PM	Shelby Tube(s)
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Skyjack	Client Liner Crew
3 Excavator(s) 1 Skidsteer	<u>14</u> Contractor Liner Installer
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew
Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	<u>1</u> Surveyor Gas Line Inst.
QA/QC EXPECTATIONS:	
Observe installation of HDPE leachate line and placement of g	ravel.
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor placed and fusion welded HDPE piping.	
Contractor excavator helped place HDPE piping, loaded gravel	into haulers, and scooped gravel from hauler
buckets to place around piping.	
Contractor haulers transported pipe gravel from stockpile to n	orth end of cell.
Contractor dozer graded protective cover.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Expected rain 11/18/2018	
Note: Copies of all completed "Project Field Record Forms" are to be	submitted to the Project Manager at the end



Daily Proje	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report:	11/20/2018		
Client Name:	American Electric Power	WEATHER:	
Contractor:	SFC	x Clear	x Cold
Project Name:	Turk Cell 2	Cloudy	<u>x</u> Cool
Location:	Fulton, AR	Partly Cloudy	Warm
Representative:	Greg Witte	Raining	Hot
Technician:	Matt Acree	Windy	30 Low Temp. (°F)
Test Location:	Cell 2	Foggy / Misty	57 High Temp. (°F)
REPORTING TIM	ES:	FIELD TESTING PERFORM	NED:
Depart Lab:	5:00 AM Depart Site: 5:00 PM	Moisture/Density	Subgrade
Arrive Site:	7:00 AM Arrive Lab: 5:45 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS		PERSONNEL ONSITE:	
2 Dozer(s)	Skviack	1 Client	Liner Crew
2 Excavator(s)) 1 Skidsteer	12 Contractor	Liner Installer
Backhoe(s)	Water Truck	1 CQA Consultant	Concrete Crew
2 Haul Truck	s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
1 Motor Grad	der(s) Smooth Drum Compactor	1 Surveyor	Gas Line Inst.
Observe placen	nent of protective cover		
SUMMARY OF A	CTIVITIES OBSERVED:		
Contractor exca	avator scooped stockpiled material into haulers.		
Contractor hau	lers transported protective cover from various si	tockpiles around cell to we	<u>est berm.</u>
Contractor doze	ers spread protective cover material.		
OPERATIONAL CO	DNCERNS & SOLUTIONS:		
Note: Conice of all	completed "Dreiget Field Decord Forms" are to be	ubmitted to the Dreiget Marga	agor at the and



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Project No: <u>351//12/</u> Date of Report: 11/21/2018	(501) 647-5252
Client Name: American Electric Power	WEATHER:
Contractor: SFC	x Clear x Cold
Project Name: Turk Cell 2	Cloudy X Cool
Location: Fulton, AR	X Partly Cloudy Warm
Representative: Greg Witte	Raining Hot
Technician: Matt Acree	Windy <u>31</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 58 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade
Arrive Site: 6:30 AM Arrive Lab: 5:30 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Skyjack	ClientLiner Crew
3 Excavator(s) 1 Skidsteer	12 Contractor Liner Installer
Backhoe(s) Water Truck	<u>1</u> CQA Consultant Concrete Crew
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer
Motor Grader(s) Smooth Drum Compactor	
Observe placement of protective cover and excavation and place	ement of west leachate line
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor excavator scooped stockpiled material into haulers a	ind scooped smooth stone into leachate
Contractor haulers transported protective cover from various st	ockpiles around cell to west berm and
smooth gravel from stockpile to leachate trenches.	
Contractor dozers spread protective cover material.	
Contractor laborers installed pipe in west leachate trench.	
OPERATIONAL CONCERNS & SOLUTIONS:	

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Daily Project Construction Summary	Derracon 25809 Interstate 30 South		
Project No: <u>35177127</u> Date of Report: 11/22/2018	Bryant, AR 72022 (501) 847-9292		
Client Name: American Electric Power	WEATHER:		
Contractor: SFC	x Clear x Cold		
Project Name: Turk Cell 2	Cloudy 🔀 Cool		
Location: Fulton, AR	Partly Cloudy Warm		
Representative: Greg Witte	Raining Hot		
Technician: Matt Acree	Windy 30 Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty 57 High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade		
Arrive Site: 6:30 AM Arrive Lab: 7:00 PM	Shelby Tube(s)		
EQUIPMENT ONSITE:	PERSONNEL ONSITE:		
2 Dozer(s) Skyjack	1 Client Liner Crew		
2 Excavator(s) 1 Skidsteer	8 Contractor Liner Installer		
Backhoe(s) Water Truck	1 CQA Consultant Concrete Crew		
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer Pipe Installer		
Motor Grader(s) Smooth Drum Compactor	Surveyor Gas Line Inst.		
Observe excavation of leachate trench and placement of smoor SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in west leachate trench and o	th gravel.		
Contractor excavators loaded and unloaded gravel from haul tr	<u>ucks.</u>		
Contractor dozers graded protective cover.			
OPERATIONAL CONCERNS & SOLUTIONS:			
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end		



Daily Project Construction SummaryProject No:35177127	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report: 11/23/2018	
Client Name: American Electric Power	WEATHER:
Contractor: SFC	Clear X Cold
Project Name: Turk Cell 2	X Cloudy X Cool
Location: Fulton, AR	Partly Cloudy U Warm
Representative: Greg Witte	X Raining Hot
Technician: Matt Acree	U Windy Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 57 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 5:00 AM Depart Site: 5:00 PM	Moisture/Density Subgrade
Arrive Site: 7:00 AM Arrive Lab: 5:45 PM	Shelby Tube(s)
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Skyjack	<u>1</u> Client Liner Crew
Z Excavator(s) <u>I</u> Skidsteer	8 Contractor Enter Installer
A Haul Truck(s) Water Huck	Design Engineer Pine Installer
Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.
Observe completion of pipe installation and grading SUMMARY OF ACTIVITIES OBSERVED: Contractor excavator loaded and unloaded gravel into trucks Contractor haulers transported gravel from stockpile to cell floaded	<u>or</u>
Contractor dozers graded protective cover	
OPERATIONAL CONCERNS & SOLUTIONS:	
Notes Conics of all completed "Decist Field Decesd Forms"	



Daily Project Construction Summary Project No: 35177127	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report: <u>11/25/2018</u>	F
Client Name: American Electric Power	
Contractor: SFC	X Clear X Cold
Project Name: Turk Cell 2	
Location: Fulton, AR	Partly Cloudy Warm
Representative: Greg Witte	
Technician: Matt Acree	Windy 36 Low Temp. (*F) Second (Minter) Second (Minter) (*F)
Test Location: Cell 2	Foggy / Misty 65 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 5:00 AM Depart Site: 5:00 PM	Moisture/Density Subgrade
Arrive Site: 7:00 AM Arrive Lab: 7:00 PM	Shelby Tube(s) Clay Liner
EQUIPMENT ONSITE:	PERSONNEL ONSITE:
2 Dozer(s) Skyjack	<u>1</u> Client Liner Crew
2 Excavator(s) 1 Skidsteer	8 Contractor Einer Installer
Backhoe(s) Water Truck	Docign Engineer
Motor Grader(s) Sheeps Foot Compactor	Design Engineer ripe instance
Observe excavation of leachate trench and installation of pipe.	
SUMMARY OF ACTIVITIES OBSERVED:	
Contractor laborers installed pipe in west leachate trench	
Contractor excavators loaded and unloaded protective cover fro	m haul trucks.
Contractor dozers graded protective cover.	
Contractor haulers transported protective cover to stockpile.	
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Conice of all complete d "Decise to Field Decise 15	



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292		
Date of Report: 11/26/2018			
Client Name: American Electric Power	WEATHER:		
Contractor: SFC	x Clear x Cold		
Project Name: Turk Cell 2	Cloudy X Cool		
Location: Fulton, AR	Partly Cloudy Warm		
Representative: Greg Witte	Raining Hot		
Technician: Matt Acree	Windy <u>28</u> Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty 57 High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 5:00 AM Depart Site: 5:00 PM	Moisture/Density Subgrade		
Arrive Site: 7:00 AM Arrive Lab: 5:30 AM	Shelby Tube(s)		
2 Deser(c) Students	PERSONNEL UNSITE:		
<u>2</u> Dozer(s) <u>Skyjack</u>	Liner Crew		
Backboe(s) Water Truck	1 COA Consultant Concrete Crew		
2 Haul Truck(s) Sheens Foot Compactor	Design Engineer Pipe Installer		
1 Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.		
QA/QC EXPECTATIONS: Observe excavation of leachate trench and placement of smooth gravel. SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile. Contractor excavators loaded and unloaded gravel from haul trucks. Contractor dozers graded protective cover.			
OPERATIONAL CONCERNS & SOLUTIONS:			



	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report:	11/27/2018		. ,
Client Name:	American Electric Power	WEATHER:	
Contractor:	SFC	x Clear	x Cold
Project Name:	Turk Cell 2	Cloudy	
Location:	Fulton, AR	Partly Cloudy	Warm
Representative:	Greg Witte	Raining	Hot
Technician:	Matt Acree	Windy	28 Low Temp. (°F)
Test Location:	Cell 2	Foggy / Misty	59 High Temp. (°F)
REPORTING TIME		FIELD TESTING PERFO	RMED:
Depart Lab:	6:15 AM Depart Site: 5:00 PM	Moisture/Densit	v Subgrade
	6:20 AM Arrivo Lab: 5:20 AM	Shelby Tube(s)	
EQUIPMENT ONS	ITE:	PERSONNEL ONSITE:	
2 Dozer(s)	Skyjack	_1_Client	Liner Crew
2 Excavator(s) <u>1</u> Skidsteer	<u>14</u> Contractor	Liner Installer
Backhoe(s)	Water Truck	1 CQA Consultant	Concrete Crew
2 Haul Truck(s) Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grad	ler(s) Smooth Drum Compactor	<u>1</u> Surveyor	Gas Line Inst.
QA/QC EXPECTATIONS: Observe excavation of leachate trench and placement of smooth gravel.			
SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.			
<u>Contractor excavators loaded and unloaded gravel from haul trucks and excavated leachate trench and</u> <u>loaded material into haulers.</u>			
Contractor haulers transported gravel from stockpile to trench and protective cover material from cell floor to stockpile.			
Contractor doze	ers graded protective cover.		
OPERATIONAL CO	DNCERNS & SOLUTIONS:		

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.



Date of Report: 11/28/2018 Client Name: American Electric Power Contractor: SFC Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Matt Acree Test Location: Cell 2 REPORTING TIMES: Image: Contractor Depart Lab: 6:15 AM Depart Site: Depart Lab: 6:30 AM Arrive Lab: 2 Dozer(s) Skyjack 2 Excavator(s) 1 3 Skidsteer Backhoe(s) Water Truck 2 Haul Truck(s) Sheeps Foot Compactor 1 Motor Grader(s) Smooth Drum Compactor 1 Motor Grader(s) Smooth Drum Compactor 1 SumMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.	Cold Cool Warm Hot Low Temp. (°F) High Temp. (°F) Subgrade			
Client Name: American Electric Power WEATHER: Contractor: SFC Image: Clear	Cold Cool Warm Hot Low Temp. (°F) High Temp. (°F) Subgrade			
Contractor: SFC x Clear x Project Name: Turk Cell 2 Cloudy x Location: Fulton, AR Partly Cloudy Raining Representative: Greg Witte Raining Windy 4. Technician: Matt Acree Windy 4. Test Location: Cell 2 Foggy / Misty 6. Depart Lab: 6:15 AM Depart Site: 5:00 PM Arrive Site: 6:30 AM Arrive Lab: 5:30 AM Arrive Site: 6:30 AM Arrive Lab: 5:30 AM EQUIPMENT ONSITE: Moisture/Density Moisture/Density 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 1 Cleant 2 Haul Truck(s) Sheeps Foot Compactor 1 Surveyor 1 Motor Grader(s) Smooth Drum Compactor 1 Surveyor QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. Surveyor 1 SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and te	Cold Cool Warm Hot Low Temp. (°F) High Temp. (°F) Subgrade			
Project Name: Turk Cell 2 Location: Fulton, AR Representative: Greg Witte Technician: Matt Acree Test Location: Cell 2 REPORTING TIMES: Windy Depart Lab: 6:15 AM Arrive Site: 6:30 AM Arrive Lab: 6:30 AM Arrive Lab: 5:30 AM EQUIPMENT ONSITE: Personnet Onsite: 2 Dozer(s) 3 Skyjack 2 Haul Truck(s) 3 Sheeps Foot Compactor 1 Motor Grader(s) Smooth Drum Compactor 1 SumMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.	Cool Warm Hot Low Temp. (°F) High Temp. (°F) Subgrade			
Location: Fulton, AR Representative: Greg Witte Technician: Matt Acree Test Location: Cell 2 REPORTING TIMES: Image: Signed Party Cloudy Depart Lab: 6:15 AM Arrive Site: 6:30 AM Arrive Lab: 6:30 AM Arrive Lab: 5:30 AM EQUIPMENT ONSITE: Image: Skyjack 2 Excavator(s) 1 3 Skidsteer Backhoe(s) Image: Smooth Drum Compactor 1 Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.	Warm Hot Low Temp. (°F) High Temp. (°F) Subgrade			
Representative: Greg Witte Technician: Matt Acree Test Location: Cell 2 REPORTING TIMES: Field TESTING PERFORMED: Depart Lab: 6:15 AM Depart Site: Arrive Site: 6:30 AM Arrive Lab: 5:30 AM Arrive Site: 6:30 AM Arrive Lab: 5:30 AM EQUIPMENT ONSITE: PERSONNEL ONSITE: PERSONNEL ONSITE: 2 Dozer(s) Skidsteer Backhoe(s) Water Truck 1 Client 2 Haul Truck(s) Sheeps Foot Compactor Design Engineer 1 Motor Grader(s) Smooth Drum Compactor Design Engineer 1 Smooth Drum Compactor Surveyor Surveyor	Hot Low Temp. (°F) High Temp. (°F) Subgrade			
Technician: Matt Acree Test Location: Cell 2 REPORTING TIMES: Field TestING PERFORMED: Depart Lab: 6:15 AM Arrive Site: 6:30 AM Arrive Lab: 5:30 AM Arrive Site: 6:30 AM Arrive Lab: 5:30 AM EQUIPMENT ONSITE: Moisture/Density 2 Dozer(s) 3 Skyjack 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 2 Haul Truck(s) 3 Sheeps Foot Compactor 1 Contractor 1 Surveyor QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.	Low Temp. (°F) High Temp. (°F) Subgrade			
Test Location: Cell 2 REPORTING TIMES:	High Temp. (°F)			
REPORTING TIMES:	Subgrade			
Depart Lab: 6:15 AM Depart Site: 5:00 PM Arrive Site: 6:30 AM Arrive Lab: 5:30 AM EQUIPMENT ONSITE:	Subgrade			
Arrive Site: 6:30 AM Arrive Lab: 5:30 AM Image: Shelby Tube(s) Image: Shelby Tube(s) EQUIPMENT ONSITE: Image: Skyjack Image: Skyjack <td></td>				
EQUIPMENT ONSITE: 2 Dozer(s)	Clay Liner			
2 Dozer(s) Skyjack 2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 1 Contractor 2 Haul Truck(s) Sheeps Foot Compactor 1 CQA Consultant 2 Haul Truck(s) Sheeps Foot Compactor 1 Surveyor 4 Motor Grader(s) Smooth Drum Compactor 1 Surveyor QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. SummARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile. External placement of smooth gravel and textile.				
2 Excavator(s) 1 Skidsteer Backhoe(s) Water Truck 2 Haul Truck(s) Sheeps Foot Compactor 1 Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.	Liner Crew			
Backhoe(s) Water Truck Haul Truck(s) Sheeps Foot Compactor Motor Grader(s) Smooth Drum Compactor QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.	 Liner Installer			
2 Haul Truck(s) Sheeps Foot Compactor Design Engineer 1 Motor Grader(s) Smooth Drum Compactor 1 Surveyor QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.	Concrete Crew			
1 Motor Grader(s) Smooth Drum Compactor 1 Surveyor QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. Observe installation of leachate pipe and placement of smooth gravel. SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.	Pipe Installer			
QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.	Gas Line Inst.			
QA/QC EXPECTATIONS: Observe installation of leachate pipe and placement of smooth gravel. SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.				
SUMMARY OF ACTIVITIES OBSERVED: Contractor laborers installed pipe in leachate trench and covered with gravel and textile.				
Contractor laborers installed pipe in leachate trench and covered with gravel and textile.				
	<u>Contractor laborers installed pipe in leachate trench and covered with gravel and textile.</u>			
Contractor excavators loaded and unloaded gravel from haul trucks.				
Contractor haulers transported gravel from stockpile to trench and protective cover material to stockpile.				
Contractor dozers graded protective cover.	from cell floor			
OPERATIONAL CONCERNS & SOLUTIONS:	from cell floor_			
	from cell floor			



Daily Project Construction Summary	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292		
Project No: <u>351//12/</u> Date of Report: <u>11/29/2018</u>	(301) 847-3232		
Client Name: American Electric Power	WEATHER		
Contractor: SEC			
Project Name: Turk Cell 2			
Location: Fulton AR	Partly Cloudy X Warm		
Representative: Greg Witte			
Technician: Matt Acree	Windy 55 Low Temp. (°F)		
Test Location: Cell 2	Foggy / Misty 72 High Temp. (°F)		
REPORTING TIMES:	FIELD TESTING PERFORMED:		
Depart Lab: 6:15 AM Depart Site: 5:00 PM	Moisture/Density Subgrade		
Arrive Site: 6:30 AM Arrive Lab: 7:00 PM	Shelby Tube(s) Clay Liner		
2 Dozer(s) Skviack	1 Client Liner Crew		
$\frac{2}{2}$ Excavator(s) $\frac{1}{1}$ Skijstek	15 Contractor Liner Installer		
Backhoe(s) Water Truck	1 COA Consultant Concrete Crew		
2 Haul Truck(s) Sheens Foot Compactor	Design Engineer Pipe Installer		
1 Motor Grader(s) Smooth Drum Compactor	1 Surveyor Gas Line Inst.		
Observe suspectations.	th group		
	<u></u>		
SUMMARY OF ACTIVITIES OBSERVED:			
Contractor laborers installed pipe in leachate trench and covered with gravel and textile.			
Contractor excavators dug east leachate trench and loaded and unloaded gravel from haul trucks.			
Contractor haulers transported gravel from stockpile to trench to stockpile.	and protective cover material from cell floor		
Contractor dozers graded protective cover.			
OPERATIONAL CONCERNS & SOLUTIONS:			
Note: Copies of all completed "Project Field Record Forms" are to be su	ubmitted to the Project Manager at the end		



Daily Proje	ect Construction Summary		25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report:	<u>11/30/2018</u> American Electric Dower	WEATHER.	
		WEATHER:	
Contractor:			
Project Name:			
Location: Representative:	Grag Witte		
Technician	Matt Acros		62 Low Temp (°E)
Technician:			73 High Temp. (°E)
			<u> </u>
REPORTING TIME	ES:	FIELD TESTING PERFOR	RMED:
Depart Lab:	5:00 AM Depart Site: 5:00 PM	X Moisture/Density	Subgrade
Arrive Site:	7:00 AM Arrive Lab: 7:00 PM	Shelby Tube(s)	Clay Liner
	IIE:	PERSONNEL ONSITE:	Lipor Crow
2 Dozer(s)	Skyjack		Liner Installer
Backhoe(s)	Water Truck	1 COA Consultant	
Backhoe(s)	s) 1 Sheeps Foot Compactor	Design Engineer	Pipe Installer
Motor Grad	der(s) Smooth Drum Compactor	1 Surveyor	Gas Line Inst.
SUMMARY OF AC	nent of structural fill material in north berm. CTIVITIES OBSERVED: lers transported structural fill material to north b	Derm.	
Contractor exca	avator loaded structural fill material into haulers		
Contractor shee	eps foot compacted material.		
Contractor doze	ers spread and graded material		
OPERATIONAL CO	ONCERNS & SOLUTIONS:		
Note: Conies of all	completed "Project Field Record Forms" are to be su	Ibmitted to the Project Ma	nager at the end



Daily Project Const	truction Summary		25809 Interstate 30 South Bryant, AR 72022
Project No: <u>35177127</u>			(501) 847-9292
Date of Report: 12/2/2018			
Client Name: American El			
Contractor: SFC			
Project Name: Turk Cell 2			
Location: Fulton, AR			X Warm
Representative: Greg Witte			Hot
Technician: Matt Acree			51 Low Temp. (°F)
Test Location: Cell 2		Foggy / Misty	62 High Temp. (°F)
REPORTING TIMES:		FIELD TESTING PERFORMED:	
Depart Lab: 5:00 AM	Depart Site: 5:00 PM	X Moisture/Density	Subgrade
Arrive Site: 7:00 AM	Arrive Lab: 7:00 PM	Shelby Tube(s)	Clay Liner
EQUIPMENT ONSITE:		PERSONNEL ONSITE:	
3 Dozer(s)	Skyjack	<u>1</u> Client	Liner Crew
3 Excavator(s)	Skidsteer	16 Contractor	Liner Installer
Backhoe(s)	Water Truck	1 CQA Consultant	Concrete Crew
4 Haul Truck(s)	Sheeps Foot Compactor	Design Engineer	Pipe Installer
<u>1</u> Motor Grader(s)	Smooth Drum Compactor	<u>1</u> Surveyor	Gas Line Inst.
QA/QC EXPECTATIONS:			
Observe placement of struct	tural fill material in north berm.		
SUMMARY OF ACTIVITIES OBS	ERVED:		
Contractor haulers transport	ted unfit material from north berm t	o stockpile and overburde	en material from
west of cell 2 to borrow area stockpile			
Contractor excavators cut unfit material and placed in haulers and cut overburden from west side of cell			
Contractor dozers spread dumped overburden material and graded protective cover			
OPERATIONAL CONCERNS & SC			

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.


Daily Proje	ect Construction Summary		2580	D9 Interstate 30 South Bryant, AR 72022
Project No:	35177127			(501) 847-9292
Date of Report:	12/3/2018	Г		
			WEATHER:	Cold
Contractor:				
Location:			Partly Cloudy	X Warm
Representative:	Greg Witte			
Technician:	Matt Acree		Windy 3	A Low Temp. (°F)
Test Location:	Cell 2		Foggy / Misty	51 High Temp. (°F)
				<u> </u>
REPORTING TIME	S:		FIELD TESTING PERFORMED	:
Depart Lab:	5:00 AM Depart Site: 5:00 PM	1	Moisture/Density	Subgrade
Arrive Site:	7:00 AM Arrive Lab: 7:00 PM	1	Shelby Tube(s)	Clay Liner
EQUIPMENT ONS	ITE:		PERSONNEL ONSITE:	
3 Dozer(s)	Skyjack		1 Client	Liner Crew
3 Excavator(s) Skidsteer		16 Contractor	Liner Installer
Backhoe(s)	Water Truck		1 CQA Consultant	Concrete Crew
4 Haul Truck(s) Sheeps Foot Compactor		Design Engineer	Pipe Installer
1 Motor Grad	ler(s) Smooth Drum Compactor		<u>1</u> Surveyor	Gas Line Inst.
QA/QC EXPECTA				
	ient of structural fill material in north be	<u>rm.</u>		
SUMMARY OF A	CTIVITIES OBSERVED:			
Contractor doze	ers graded protective cover			
Contractor exca	avators cut overburden and loaded into t	rucks_		
Haul trucks trar	isported overburden material to borrow	area stocl	kpile.	
	JNCERNS & SOLUTIONS:			
Note: Copies of all	completed "Project Field Record Forms" are	to he subr	nitted to the Project Manager	r at the end

of each day and should be maintained with the Project Records.



Daily Project Construction Summary Project No: 35177127	25809 Interstate 30 South Bryant, AR 72022 (501) 847-9292
Date of Report: <u>12/4/2018</u>	
Client Name: American Electric Power	WEATHER:
Contractor: SFC	X Clear Cold
Project Name: Turk Cell 2	Cloudy X Cool
Location: Fulton, AR	X Partly Cloudy X Warm
Representative: Greg Witte	Raining Hot
Technician: Matt Acree	Windy <u>28</u> Low Temp. (°F)
Test Location: Cell 2	Foggy / Misty 47 High Temp. (°F)
REPORTING TIMES:	FIELD TESTING PERFORMED:
Depart Lab: 1:00 PM Depart Site: 5:15 PM	X Moisture/Density Subgrade
Arrive Site: 2:45 PM Arrive Lab: 7:15 PM	Shelby Tube(s) Clay Liner
	PERSONNEL ONSITE:
$\frac{3}{2} Dozer(s) \qquad Skyjack$	1 Client Liner Crew
2 Excavator(s) Skidsteer	
Backhoe(s) Water Truck	Design Engineer
4 Haul Truck(s) 1 Sneeps Foot Compactor	Design Engineer Pipe Installer
Observe placement of structural fill material in north berm. SUMMARY OF ACTIVITIES OBSERVED: Contractor haulers transported structural fill material from we stockpile Contractor excavators cut overburden from west side of cell Contractor dozers spread dumped overburden material and gr	est of cell 2 to north berm and borrow area
OPERATIONAL CONCERNS & SOLUTIONS:	
Note: Copies of all completed "Project Field Record Forms" are to be s	submitted to the Project Manager at the end

of each day and should be maintained with the Project Records.





APPENDIX C PRE-CONSTRUCTION & CONSTRUCTION TESTING



A unit of American Electric Power

TABLE 1

SOIL PRE-CONSTRUCTION TEST SUMMARY

SWEPCO - John W. Turk, Jr. Power Plant - Landfill Cell 2

Material ID	Max Dry Density (PCF)	Optimum Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index (>10)	Passing 1" (100%)	Passing #4 (>80%)	Passing #200 (>30%)	Soil Class	Permeability (1.0 E-7 cm/sec)	Soil Description
BA-1	102.1	19.7	51	18	33	100.0	96.1	68.0	СН	1.50E-08	Dark Gray Sandy Fat Clay
BA-2	95.3	24.6	75	23	52	100.0	100.0	97.7	СН	1.20E-08	Brown Fat Clay
BA-3	92.4	28.1	98	30	68	100.0	100.0	97.4	СН	9.60E-09	Brown Fat Clay
BA-4	89.4	29.0	82	25	57	100.0	100.0	97.8	СН	9.30E-09	Brown Fat Clay

AEP SOUTHWESTERN ELECTRIC POWER COMPANY

A unit of American Electric Power

TABLE 2

SOIL CONSTRUCTION TEST SUMMARY

SWEPCO - John W. Turk, Jr. Power Plant - Landfill Cell 2

Material ID	Max Dry Density (PCF)	Optimum Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index (>10)	Passing 1" (100%)	Passing #4 (>80%)	Passing #200 (>30%)	Soil Class	Permeability (1.0 E-7 cm/sec)	Soil Description
BA-5	89.1	28.8	82	27	55	100.0	100.0	95.1	СН	2.40E-08	Gray Fat Clay
BA-6	94.0	25.5	86	26	60	100.0	100.0	97.6	СН	2.60E-08	Brown Fat Clay
BA-7	96.2	25.3	81	27	54	100.0	100.0	98.1	СН	2.90E-08	Brown Fat Clay
BA-8 (1)	92.3	27.6	113	20	93	100.0	100.0	93.4	СН	-	Fat Clay
BA-9 (1)	90.9	27.2	115	22	93	100.0	100.0	92.6	СН	-	Fat Clay
BA-10 (1)	106.3	18.4	61	15	46	100.0	98.0	86.7	СН	-	Fat Clay
BA-11 (1)	93.2	26.9	96	21	75	100.0	100.0	95.4	СН	-	Red Fat Clay
BA-12	103.3	22.6	78	21	57	100.0	100.0	97.0	СН	1.10E-08	Brown Fat Clay
BA-13	93.2	26.9	73	23	50	100.0	99.0	92.0	СН	2.00E-08	Gray Fat Clay
BA-14	91.5	28.1	73	21	52	100.0	99.0	97.0	СН	1.60E-08	Brown Fat Clay
BA-15	89.0	30.7	73	22	51	100.0	100.0	97.0	СН	1.50E-08	Brown Fat Clay
BA-16	90.8	27.9	81	21	60	100.0	100.0	99.0	СН	1.90E-08	Brown Fat Clay
BA-17 (1)	94.7	25.2	96	19	77	100.0	100.0	97.0	СН	-	Fat Clay
BA-18	89.9	27.7	83	22	61	100.0	100.0	99.0	СН	2.70E-08	Brown Fat Clay
BA-19	95.7	24.7	72	22	50	100.0	100.0	98.0	CH	1.20E-08	Brown Fat Clay
BA-20	94.2	24.5	74	21	53	100.0	100.0	98.0	СН	1.70E-08	Brown Fat Clay

Notes:

1. Sample was not tested or used as compacted clay liner material.



PRE-CONSTRUCTION TESTING



































CONSTRUCTION TESTING













Tested By: DJ














____ Checked By: GS













Tested By: SS







Tested By: DT







___ Checked By: GS





Tested By: VL









Tested By: DR





____ Checked By: GS





Tested By: DR





















APPENDIX D FIELD MOISTURE/DENSITY TEST RESULTS

ASTN	ASTM D 2922 Bryant, AR 72022												
Client Name: Project Name: Site Location: Contractor:		American	Electric Power	Techr			Technicia	n:	Matt Acree	(501) 847-9292			
		Turk Cell 2	2				Reviewed by:		Tony Bardella				
		Fulton, Arl	kansas	_			Approved by: Test Location:		Tony Bardella Cell 2		_		
		SFC		-							-		
				-							•		
				Shelby		Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Mat'l.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample	NO.	pcf	pcf	pcf	%	Required		%	FAIL
1.30.18	1S	SUB	Cell 2 Floor	N/A	BA-5	111.5	81.2	89.1	91.1	95.0	37.3	28.8	FAIL
2.1.18	1SR	SUB	Cell 2 Floor	N/A	BA-5	114.2	85.2	89.1	95.6	95.0	34.0	28.8	PASS
1.30.18	2S	SUB	Cell 2 Floor	N/A	BA-5	113.1	83.6	89.1	93.8	95.0	35.3	28.8	FAIL
2.1.18	2SR	SUB	Cell 2 Floor	N/A	BA-5	114.2	87.6	89.1	98.3	95.0	30.4	28.8	PASS
1.30.18	3S	SUB	Cell 2 Floor	N/A	BA-5	116.6	88.0	89.1	98.8	95.0	32.5	28.8	PASS
1.31.18	4S	SUB	Cell 2 Floor	N/A	BA-5	113.4	85.8	89.1	96.3	95.0	32.1	28.8	PASS
1.31.18	5S	SUB	Cell 2 Floor	N/A	BA-5	113.5	86.6	89.1	97.2	95.0	31.1	28.8	PASS
2.1.18	6S	SUB	Cell 2 Floor	N/A	BA-4	117.7	89.6	89.4	100.2	95.0	31.4	29.0	PASS
2.1.18	7S	SUB	Cell 2 Floor	N/A	BA-4	115.3	88.1	89.4	98.6	95.0	30.8	29.0	PASS
2.2.18	8S	SUB	Cell 2 Floor	N/A	BA-5	113.6	86.6	89.1	97.2	95.0	31.2	28.8	PASS
2.2.18	9S	SUB	Cell 2 Floor	N/A	BA-5	113.6	84.8	89.1	95.2	95.0	33.9	28.8	PASS
2.2.18	10S	SUB	Cell 2 Floor	N/A	BA-5	117.8	89.7	89.1	100.7	95.0	31.3	28.8	PASS
2.2.18	11S	SUB	Cell 2 Floor	N/A	BA-2	118.0	93.9	95.3	98.5	95.0	25.7	24.6	PASS
2.2.18	12S	SUB	Cell 2 Floor	N/A	BA-4	117.8	87.6	89.4	98.0	95.0	34.4	29.0	PASS
2.2.18	13S	SUB	Cell 2 Floor	N/A	BA-2	117.8	91.0	95.3	95.5	95.0	29.5	24.6	PASS

Summary of Field Density Test Results

-lerracon

ASTM D 2922 Brvant, AR 7												30 South AR 72022	
Client Name: Project Name: Site Location: Contractor:		American	Electric Power	_			Technician:		Matt Acree	(501) 847-9292			
		Turk Cell 2	2	_			Reviewed by:		Tony Bardella				
		Fulton, Arl	kansas	_			Approved by:		Tony Bardella				
		SFC		_			Test Location:		Cell 2				
				Shelby	Matil	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	No.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample		pcf	pcf	pcf	%	Required		%	FAIL
2.2.18	14S	SUB	Cell 2 Floor	N/A	BA-4	114.6	87.8	89.4	98.2	95.0	30.5	29.0	PASS
2.2.18	15S	SUB	Cell 2 Floor	N/A	BA-2	121.7	96.8	95.3	101.6	95.0	25.7	24.6	PASS
2.2.18	16S	SUB	Cell 2 Floor	N/A	BA-2	117.9	91.2	95.3	95.7	95.0	29.3	24.6	PASS
2.3.18	17S	SUB	Cell 2 Floor	N/A	BA-4	112.7	84.9	89.4	95.0	95.0	32.7	29.0	PASS
2.3.18	18S	SUB	Cell 2 Floor	N/A	BA-4	114.3	86.2	89.4	96.4	95.0	32.6	29.0	PASS
3.13.18	19S	SUB	Cell 2 Floor	N/A	BA-5	113.1	86.3	89.1	96.8	95.0	31.1	28.8	PASS
5.8.18	20S	SUB	Cell 2 Floor	N/A	BA-4	110.8	85.8	89.4	96.0	95.0	29.1	29.0	PASS
5.8.18	21S	SUB	Cell 2 Floor	N/A	BA-4	115.4	90.7	89.4	101.4	95.0	27.3	29.0	PASS
5.8.18	22S	SUB	Cell 2 Floor	N/A	BA-4	113.0	87.3	89.4	97.6	95.0	29.5	29.0	PASS
5.8.18	23S	SUB	Cell 2 Floor	N/A	BA-4	115.1	91.1	89.4	101.9	95.0	26.4	29.0	PASS
5.8.18	24S	SUB	Cell 2 Floor	N/A	BA-4	112.2	88.2	89.4	98.7	95.0	27.2	29.0	PASS
5.8.18	25S	SUB	Cell 2 Floor	N/A	BA-4	111.8	86.9	89.4	97.2	95.0	28.7	29.0	PASS
5.8.18	26S	SUB	Cell 2 Floor	N/A	BA-4	113.7	87.6	89.4	98.0	95.0	29.8	29.0	PASS
5.8.18	27S	SUB	Cell 2 Floor	N/A	BA-4	114.5	88.1	89.4	98.6	95.0	29.9	29.0	PASS
5.8.18	28S	SUB	Cell 2 Floor	N/A	BA-1	125.1	104.3	102.1	102.2	95.0	19.9	19.7	PASS

Summary of Field Density Test Results


ASTN	/I D 29)22									25809	Interstate 3 Bryant, A	30 South AR 72022
Client N	Name:	American	Electric Power	_			Technicia	n:	Matt Acree		_	(501) {	847-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а	-		
Site Lo	cation:	Fulton, Arl	kansas	_			Approved	by:	Tony Bardell	а	_		
Contrac	ctor:	SFC					Test Loca	tion:	Cell 2				
				-									
				Shelby	Matil	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Mat I.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample	NO.	pcf	pcf	pcf	%	Required		%	FAIL
5.8.18	29S	SUB	Cell 2 Floor	N/A	BA-1	125.5	105.7	102.1	103.6	95.0	18.7	19.7	PASS
5.8.18	30S	SUB	Cell 2 Floor	N/A	BA-1	123.4	101.1	102.1	99.1	95.0	22.0	19.7	PASS
5.8.18	31S	SUB	Cell 2 Floor	N/A	BA-1	125.4	105.5	102.1	103.3	95.0	18.9	19.7	PASS
5.8.18	32S	SUB	Cell 2 Floor	N/A	BA-4	114.7	88.8	89.4	99.4	95.0	29.1	29.0	PASS
5.8.18	33S	SUB	Cell 2 Floor	N/A	BA-4	115.2	88.8	89.4	99.4	95.0	29.7	29.0	PASS
5.8.18	34S	SUB	Cell 2 Floor	N/A	BA-4	113.9	88.1	89.4	98.5	95.0	29.3	29.0	PASS
5.17.18	35S	SUB	Cell 2 Floor	N/A	BA-4	116.2	98.1	89.4	109.7	95.0	18.5	29.0	FAIL
5.17.18	35SR	SUB	Cell 2 Floor	N/A	BA-4	107.0	87.7	89.4	98.1	95.0	22.0	29.0	PASS
5.17.18	36S	SUB	Cell 2 Floor	N/A	BA-4	109.2	87.9	89.4	98.3	95.0	24.3	29.0	PASS
5.17.18	37S	SUB	Cell 2 Floor	N/A	BA-4	110.6	90.1	89.4	100.7	95.0	22.8	29.0	PASS
5.17.18	38S	SUB	Cell 2 Floor	N/A	BA-4	111.3	90.0	89.4	100.6	95.0	23.7	29.0	PASS
5.30.18	39S	SUB	Cell 2 Floor	N/A	BA-4	113.3	88.4	89.4	98.9	95.0	28.1	29.0	PASS
5.30.18	40S	SUB	Cell 2 Floor	N/A	BA-4	116.7	90.9	89.4	101.7	95.0	28.4	29.0	PASS
5.30.18	41S	SUB	Cell 2 Floor	N/A	BA-4	112.6	89.2	89.4	99.7	95.0	26.3	29.0	PASS
5.30.18	42S	SUB	Cell 2 Floor	N/A	BA-4	118.0	92.3	89.4	103.2	95.0	27.9	29.0	PASS



ASTN	1 D 29	022									25809	Interstate 3	30 South
Client N	lame:	American	Electric Power				Technicia	n:	Matt Acree			ы yant, А (501) {	347-9292
Project	Name:	Turk Cell 2	2				Reviewed	by:	Tony Bardella	а			
Site Lo	cation:	Fulton, Arl	kansas				Approved	by:	Tony Bardella	а			
Contrac	ctor:	SFC					Test Loca	tion:	Cell 2				
				•							•		
				Shelby		Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Mat'l.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample	NO.	pcf	pcf	pcf	%	Required		%	FAIL
5.30.18	43S	SUB	Cell 2 Floor	N/A	BA-4	114.9	89.8	89.4	100.4	95.0	28.0	29.0	PASS
5.30.18	44S	SUB	Cell 2 Floor	N/A	BA-4	115.8	91.3	89.4	102.1	95.0	26.9	29.0	PASS
5.30.18	45S	SUB	Cell 2 Floor	N/A	BA-4	119.2	93.9	89.4	105.0	95.0	27.0	29.0	PASS
5.30.18	46S	SUB	Cell 2 Floor	N/A	BA-6	118.7	95.6	94.0	101.7	95.0	24.2	25.5	PASS
5.30.18	47S	SUB	Cell 2 Floor	N/A	BA-4	113.5	89.7	89.4	100.4	95.0	26.5	29.0	PASS
5.30.18	48S	SUB	Cell 2 Floor	N/A	BA-4	114.3	90.6	89.4	101.4	95.0	26.1	29.0	PASS
5.30.18	49S	SUB	Cell 2 Floor	N/A	BA-4	114.7	91.2	89.4	102.0	95.0	25.8	29.0	PASS
5.30.18	50S	SUB	Cell 2 Floor	N/A	BA-6	120.8	96.4	94.0	102.6	95.0	25.3	25.5	PASS
7.10.18	51S	SUB	Cell 2 Floor	N/A	BA-13	125.6	103.4	103.3	100.1	95.0	21.5	22.6	PASS
7.10.18	52S	SUB	Cell 2 Floor	N/A	BA-6	119.1	94.6	94.0	100.6	95.0	25.9	25.5	PASS
7.10.18	53S	SUB	Cell 2 Floor	N/A	BA-6	119.9	96.0	94.0	102.1	95.0	24.9	25.5	PASS
7.10.18	54S	SUB	Cell 2 Floor	N/A	BA-2	120.1	96.2	95.3	101.0	95.0	24.8	24.6	PASS
7.10.18	55S	SUB	Cell 2 Floor	N/A	BA-13	126.2	106.6	103.3	103.2	95.0	18.4	22.6	PASS
7.10.18	56S	SUB	Cell 2 Floor	N/A	BA-6	119.8	94.0	94.0	100.0	95.0	27.4	25.5	PASS
7.10.18	57S	SUB	Cell 2 Floor	N/A	BA-13	128.1	104.6	103.3	101.2	95.0	22.5	22.6	PASS



Client N Project Site Loo Contrac	lame: Name: cation: ctor:	American E Turk Cell 2 Fulton, Arka SFC	Electric Power ansas				Technicia Reviewed Approved Test Loca	n: by: by: tion:	Matt Acree Tony Bardell Tony Bardell Cell 2	a	- - -	(501) 8	347-929
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
7.10.18	58S	SUB	Cell 2 Floor	N/A	BA-6	120.3	95.7	94.0	101.8	95.0	25.7	25.5	PAS
4.9.18	59S	SUB	Cell 2 Floor	N/A	BA-2	118.9	93.3	95.3	97.9	95.0	27.4	24.6	PAS
4.9.18	60S	SUB	Cell 2 Floor	N/A	BA-4	119.0	90.4	89.4	101.1	95.0	31.6	29.0	PAS
4.9.18	61S	SUB	Cell 2 Floor	N/A	BA-4	114.7	87.2	89.4	97.6	95.0	31.5	29.0	PAS
4.9.18	62S	SUB	Cell 2 Floor	N/A	BA-4	120.1	92.7	89.4	103.7	95.0	29.5	29.0	PAS
4.9.18	63S	SUB	Cell 2 Floor	N/A	BA-4	114.3	86.5	89.4	96.7	95.0	32.2	29.0	PAS

										-76			
	mary o	of Field	Density Test Resu	lts							25800		20 South
ASIN											200091	Bryant, A	R 72022
Client N	lame:	American	Electric Power	-			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а			
Site Lo	cation:	Fulton, AR	R	-			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2				
				Shelby		Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Mat'l.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample	NO.	pcf	pcf	pcf	%	Required		%	FAIL
5.8.18	1	1	Cell 2 Floor		BA-4	119.8	91.9	89.4	102.8	95.0	30.4	29.0	PASŞ
5.8.18	2	1	Cell 2 Floor		BA-4	120.0	92.7	89.4	103.7	95.0	29.4	29.0	PASS
5.8.18	3	1	Cell 2 Floor		BA-4	118.2	90.8	89.4	101.5	95.0	30.2	29.0	PASS
5.8.18	4	1	Cell 2 Floor		BA-4	120.4	92.8	89.4	103.8	95.0	29.8	29.0	PASS
5.8.18	5	1	Cell 2 Floor		BA-4	119.2	91.3	89.4	102.1	95.0	30.6	29.0	PASS
5.8.18	6	1	Cell 2 Floor		BA-4	118.7	91.6	89.4	102.4	95.0	29.6	29.0	PASS
5.8.18	7	1	Cell 2 Floor		BA-4	118.3	91.6	89.4	102.5	95.0	29.1	29.0	PASS
5.8.18	8	1	Cell 2 Floor		BA-4	118.9	91.9	89.4	102.8	95.0	29.4	29.0	PASS
5.8.18	9	1	Cell 2 Floor		BA-4	118.5	90.2	89.4	100.9	95.0	31.4	29.0	PASS
5.8.18	10	1	Cell 2 Floor	P1	BA-4	119.7	91.6	89.4	102.4	95.0	30.7	29.0	PASS
5.8.18	11	1	Cell 2 Floor		BA-6	118.9	94.7	94.0	100.8	95.0	25.5	25.5	PASS
5.8.18	12	1	Cell 2 Floor		BA-6	117.6	91.9	94.0	97.8	95.0	27.9	25.5	PASS
5.9.18	13	2	Cell 2 Floor		BA-4	115.9	89.1	89.4	99.6	95.0	30.1	29.0	PASS
5.9.18	14	2	Cell 2 Floor		BA-4	116.5	89.3	89.4	99.9	95.0	30.4	29.0	PASS

Sumr ASTN	nary (I D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC Interstate 3 Bryant, A	30 South R 72022
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardella	a			
Site Lo	cation:	Fulton, AR		-			Approved	by: tion:	Tony Bardella	а			
Contrac	ctor:	SFC		-			Test Loca	tion:			i		
				Shelby	Motil	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Nat I. No.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample		pcf	pcf	pcf	%	Required		%	FAIL
5.9.18	15	2	Cell 2 Floor		BA-4	117.0	90.7	89.4	101.5	95.0	29.0	29.0	PASS
5.9.18	16	2	Cell 2 Floor	P2	BA-4	116.4	88.5	89.4	99.0	95.0	31.5	29.0	PASS
5.9.18	17	2	Cell 2 Floor		BA-6	119.6	93.6	94.0	99.6	95.0	27.8	25.5	PASS
5.9.18	18	2	Cell 2 Floor		BA-4	114.1	87.1	89.4	97.4	95.0	31.0	29.0	PASS
5.9.18	19	2	Cell 2 Floor		BA-4	117.8	89.7	89.4	100.4	95.0	31.3	29.0	PASS
5.9.18	20	2	Cell 2 Floor		BA-4	116.0	89.1	89.4	99.7	95.0	30.2	29.0	PASS
5.10.18	21	2	Cell 2 Floor	P3	BA-4	112.7	85.3	89.4	95.4	95.0	32.1	29.0	PASS
5.10.18	22	2	Cell 2 Floor		BA-4	114.8	86.6	89.4	96.9	95.0	32.5	29.0	PASS
5.10.18	23	2	Cell 2 Floor		BA-4	119.6	92.0	89.4	102.9	95.0	30.0	29.0	PASS
5.10.18	24	2	Cell 2 Floor		BA-4	115.1	87.9	89.4	98.3	95.0	31.0	29.0	PASS
5.10.18	25	3	Cell 2 Floor	P4	BA-4	115.9	88.2	89.4	98.7	95.0	31.4	29.0	PASS
5.10.18	26	3	Cell 2 Floor		BA-4	117.6	89.6	89.4	100.3	95.0	31.2	29.0	PASS
5.14.18	27	3	Cell 2 Floor		BA-4	116.4	88.4	89.4	98.9	95.0	31.6	29.0	PASS
5.14.18	28	3	Cell 2 Floor		BA-4	115.5	88.7	89.4	99.2	95.0	30.2	29.0	PASS

										-16			
Sum	nary o	of Field	Density Test Resu	lts								JLL	
)22									258091	Brvant, A	30 South R 72022
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	a			
Site Lo	cation:	Fulton, AR		_			Approved	by:	Tony Bardell	a			
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2				
				Shalby		Wot	Dry	Lab May	Dorcopt	Dorcont	Moisturo	Ontimum	DASS
Test	Test	Lift or	Test Location	Tube	Mat'l.	Density.	Density.	Dry Density.	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample	No.	pcf	pcf	pcf	%	Required		%	FAIL
5.15.18	29	3	Cell 2 Floor		BA-4	116.3	89.2	89.4	99.8	95.0	30.4	29.0	PASS
5.15.18	30	3	Cell 2 Floor		BA-4	112.6	85.6	89.4	95.7	95.0	31.6	29.0	PASS
5.15.18	31	3	Cell 2 Floor		BA-4	114.1	85.9	89.4	96.1	95.0	32.8	29.0	PASS
5.15.18	32	3	Cell 2 Floor		BA-4	117.7	91.0	89.4	101.7	95.0	29.4	29.0	PASS
5.15.18	33	`3	Cell 2 Floor		BA-4	116.8	89.2	89.4	99.7	95.0	31.0	29.0	PASS
5.15.18	34	3	Cell 2 Floor	P5	BA-4	114.6	85.8	89.4	96.0	95.0	33.5	29.0	PASS
5.15.18	35	3	Cell 2 Floor		BA-4	115.2	87.1	89.4	97.4	95.0	32.3	29.0	PASS
5.15.18	36	3	Cell 2 Floor		BA-4	115.9	88.3	89.4	98.7	95.0	31.3	29.0	PASS
5.15.18	37	4	Cell 2 Floor		BA-4	116.2	87.5	89.4	97.9	95.0	32.8	29.0	PASS
5.15.18	38	4	Cell 2 Floor		BA-4	116.2	86.6	89.4	96.9	95.0	34.2	29.0	PASS
5.15.18	39	4	Cell 2 Floor	P6	BA-4	120.2	92.8	89.4	103.8	95.0	29.5	29.0	PASS
5.15.18	40	4	Cell 2 Floor		BA-4	115.4	87.2	89.4	97.6	95.0	32.3	29.0	PASS
5.16.18	41	4	Cell 2 Floor		BA-4	111.0	86.0	89.4	96.2	95.0	29.0	29.0	PASS
5.16.18	42	4	Cell 2 Floor		BA-4	115.2	86.4	89.4	96.7	95.0	33.3	29.0	PASS

Sumr ASTM	nary o I D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC Interstate 3 Bryant, A	30 South R 72022
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а			
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2				
Test	Test	Lift or	Test Location	Shelby Tube	Mat'l. No.	Wet Density,	Dry Density,	Lab Max. Dry Density,	Percent Compaction	Percent Compaction	Moisture Content	Optimum Moisture	PASS or
Date	No.	Elev.		Sample		pcf	pcf	pcf	%	Required		%	FAIL
5.16.18	43	4	Cell 2 Floor		BA-4	111.7	86.6	89.4	96.9	95.0	29.0	29.0	PASS
5.16.18	44	4	Cell 2 Floor		BA-4	115.7	88.3	89.4	98.8	95.0	31.0	29.0	PASS
5.16.18	45	4	Cell 2 Floor	P7	BA-4	115.6	87.4	89.4	97.7	95.0	32.3	29.0	PASS
5.16.18	46	4	Cell 2 Floor		BA-4	115.3	88.4	89.4	98.9	95.0	30.4	29.0	PASS
5.16.18	47	4	Cell 2 Floor		BA-4	113.3	85.6	89.4	95.8	95.0	32.3	29.0	PASS
5.16.18	48	4	Cell 2 Floor		BA-4	118.8	91.8	89.4	102.7	95.0	29.4	29.0	PASS
5.17.18	49	5	Cell 2 Floor		BA-6	116.4	90.5	94.0	96.3	95.0	28.6	25.5	PASS
5.17.18	50	5	Cell 2 Floor		BA-4	117.3	90.0	89.4	100.7	95.0	30.3	29.0	PASS
5.17.18	51	5	Cell 2 Floor		BA-4	115.8	87.3	89.4	97.6	95.0	32.7	29.0	PASS
5.17.18	52	`5	Cell 2 Floor		BA-4	115.3	87.3	89.4	97.7	95.0	32.0	29.0	PASS
5.17.18	53	5	Cell 2 Floor		BA-4	115.1	87.7	89.4	98.1	95.0	31.3	29.0	PASS
5.17.18	54	5	Cell 2 Floor		BA-4	114.9	87.7	89.4	98.1	95.0	31.0	29.0	PASS
5.17.18	55	5	Cell 2 Floor		BA-4	114.3	87.8	89.4	98.2	95.0	30.2	29.0	PASS
5.17.18	56	5	Cell 2 Floor		BA-4	116.2	88.8	89.4	99.4	95.0	30.8	29.0	PASS

										_76			
Sum	nary o	of Field	Density Test Resu	lts									
ASIN	1 D 29)22									258091	nterstate : Brvant, A	30 South R 72022
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	a			
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		-			Test Loca	ition:	Cell 2				
				Shelby		Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Mat'l.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample	110.	pcf	pcf	pcf	%	Required		%	FAIL
5.17.18	57	5	Cell 2 Floor		BA-4	113.3	86.5	89.4	96.7	95.0	31.0	29.0	PASS
5.17.18	58	5	Cell 2 Floor		BA-4	114.6	87.9	89.4	98.3	95.0	30.4	29.0	PASS
5.17.18	59	5	Cell 2 Floor		BA-4	114.7	86.4	89.4	96.7	95.0	32.7	29.0	PASS
5.17.18	60	5	Cell 2 Floor		BA-4	115.5	89.3	89.4	99.9	95.0	29.3	29.0	PASS
5.18.18	61	1	Cell 2 Floor		BA-4	113.5	87.8	89.4	98.2	95.0	29.3	29.0	PASS
5.18.18	62	1	Cell 2 Floor		BA-4	110.8	85.7	89.4	95.9	95.0	29.3	29.0	PASS
5.18.18	63	1	Cell 2 Floor	P8	BA-4	115.5	86.1	89.4	96.3	95.0	34.2	29.0	PASS
5.18.18	64	1	Cell 2 Floor		BA-4	114.2	85.4	89.4	95.5	95.0	33.7	29.0	PASS
5.18.18	65	1	Cell 2 Floor		BA-4	116.0	87.8	89.4	98.2	95.0	32.1	29.0	PASS
5.18.18	66	1	Cell 2 Floor		BA-4	113.4	85.6	89.4	95.7	95.0	32.5	29.0	PASS
5.19.18	67	1	Cell 2 Floor	P9	BA-4	117.2	89.9	89.4	100.6	95.0	30.3	29.0	PASS
5.19.18	68	1	Cell 2 Floor		BA-4	114.4	85.6	89.4	95.8	95.0	33.6	29.0	PASS
5.19.18	69	1	Cell 2 Floor		BA-4	118.5	90.3	89.4	101.0	95.0	31.3	29.0	PASS
5.19.18	70	1	Cell 2 Floor		BA-4	121.2	93.2	89.4	104.2	95.0	30.1	29.0	PASS

Sumr ASTN	nary o I D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC Interstate 3 Bryant, A	30 South R 72022
Client N Project Site Loc	lame: Name: cation:	American Turk Cell 2 Fulton, AR	Electric Power 2	-			Technicia Reviewed Approved	n: by: by:	Matt Acree Tony Bardella Tony Bardella	a		(501) 8	347-9292
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2				
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
5.19.18	71	2	Cell 2 Floor		BA-4	115.7	89.6	89.4	100.2	95.0	29.2	29.0	PASS
5.19.18	72	2	Cell 2 Floor		BA-4	115.6	86.7	89.4	97.0	95.0	33.3	29.0	PASS
5.19.18	73	2	Cell 2 Floor	P10	BA-4	117.9	90.2	89.4	100.9	95.0	30.7	29.0	PASS
5.19.18	74	2	Cell 2 Floor		BA-4	113.4	86.2	89.4	96.5	95.0	31.5	29.0	PASS
5.19.18	75	2	Cell 2 Floor		BA-4	111.9	85.2	89.4	95.3	95.0	31.3	29.0	PASS
5.19.18	76	2	Cell 2 Floor		BA-4	116.8	89.0	89.4	99.5	95.0	31.3	29.0	PASS
5.19.18	77	2	Cell 2 Floor		BA-4	116.3	87.2	89.4	97.6	95.0	33.3	29.0	PASS
5.19.18	78	2	Cell 2 Floor		BA-4	115.0	86.5	89.4	96.8	95.0	32.9	29.0	PASS
5.20.18	79	2	Cell 2 Floor		BA-4	113.7	85.0	89.4	95.1	95.0	33.8	29.0	PASS
5.20.18	80	2	Cell 2 Floor		BA-4	114.1	87.6	89.4	97.9	95.0	30.3	29.0	PASS
5.20.18	81	3	Cell 2 Floor		BA-4	118.5	91.2	89.4	102.0	95.0	29.9	29.0	PASS
5.20.18	82	3	Cell 2 Floor		BA-4	114.0	86.3	89.4	96.5	95.0	32.1	29.0	PASS
5.20.18	83	3	Cell 2 Floor		BA-6	116.5	92.2	94.0	98.1	95.0	26.3	25.5	PASS
5.20.18	84	3	Cell 2 Floor	P11	BA-6	120.4	95.0	94.0	101.1	95.0	26.7	25.5	PASS

Sum AST	nary o I D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC Interstate 3	30 South
Client N Project Site Loo Contrad	lame: Name: cation: ctor:	American Turk Cell 2 Fulton, AR SFC	Electric Power	- - -			Technicia Reviewed Approved Test Loca	n: by: by: tion:	Matt Acree Tony Bardell Tony Bardell Cell 2	a a		(501) (501)	347-9292
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
5.20.18	85	` 3	Cell 2 Floor		BA-6	117.1	91.3	94.0	97.2	95.0	28.2	25.5	PASS
5.20.18	86	3	Cell 2 Floor		BA-6	116.7	90.3	94.0	96.0	95.0	29.3	25.5	PASS
5.21.18	87	3	Cell 2 Floor		BA-6	118.3	92.3	94.0	98.2	95.0	28.1	25.5	PASS
5.21.18	88	3	Cell 2 Floor	P12	BA-6	116.5	89.5	94.0	95.3	95.0	30.1	25.5	PASS
5.21.18	89	3	Cell 2 Floor		BA-6	118.3	93.1	94.0	99.0	95.0	27.1	25.5	PASS
5.22.18	90	3	Cell 2 Floor		BA-6	118.0	90.6	94.0	96.4	95.0	30.2	25.5	PASS
5.22.18	91	4	Cell 2 Floor		BA-6	116.7	91.0	94.0	96.8	95.0	28.2	25.5	PASS
5.22.18	92	4	Cell 2 Floor		BA-6	118.3	94.0	94.0	100.0	95.0	25.8	25.5	PASS
5.22.18	93	4	Cell 2 Floor	P13	BA-6	118.4	91.1	94.0	97.0	95.0	29.9	25.5	PASS
5.22.18	94	4	Cell 2 Floor		BA-4	114.1	87.2	89.4	97.6	95.0	30.8	29.0	PASS
5.28.18	95	4	Cell 2 Floor		BA-4	116.1	87.9	89.4	98.3	95.0	32.1	29.0	PASS
5.28.18	96	4	Cell 2 Floor		BA-4	113.6	85.5	89.4	95.7	95.0	32.8	29.0	PASS
5.28.18	97	4	Cell 2 Floor		BA-4	113.0	85.1	89.4	95.2	95.0	32.8	29.0	PASS
5.28.18	98	4	Cell 2 Floor	P14	BA-4	116.4	87.6	89.4	98.0	95.0	32.9	29.0	PASS

										_76			
Sum	nary o	of Field	Density Test Resu	lts								JCC	
ASIN	/I D 29)22									25809	Brvant, A	R 72022
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree		_	(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а			
Site Lo	cation:	Fulton, AR		_			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2				
				Shelby		Wet	Drv	Lah Max	Percent	Percent	Moisture	Ontimum	PASS
Test	Test	Lift or	Test Location	Tube	Mat'l.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample	NO.	pcf	pcf	pcf	%	Required		%	FAIL
5.29.18	99	4	Cell 2 Floor		BA-4	114.0	86.4	89.4	96.6	95.0	32.0	29.0	PASS
5.29.18	100	4	Cell 2 Floor	P15	BA-4	117.3	90.6	89.4	101.3	95.0	29.5	29.0	PASS
5.29.18	101	`5	Cell 2 Floor		BA-4	118.3	91.1	89.4	101.9	95.0	29.9	29.0	PASS
5.29.18	102	5	Cell 2 Floor		BA-4	118.0	90.6	89.4	101.3	95.0	30.3	29.0	PASS
5.29.18	103	5	Cell 2 Floor		BA-4	117.3	89.6	89.4	100.2	95.0	30.9	29.0	PASS
5.29.18	104	5	Cell 2 Floor		BA-4	116.1	89.2	89.4	99.8	95.0	30.1	29.0	PASS
5.29.18	105	5	Cell 2 Floor		BA-4	117.1	87.4	89.4	97.7	95.0	34.0	29.0	PASS
5.29.18	106	5	Cell 2 Floor		BA-4	113.8	85.4	89.4	95.6	95.0	33.2	29.0	PASS
5.30.18	107	5	Cell 2 Floor		BA-4	116.4	88.4	89.4	98.9	95.0	31.6	29.0	PASS
5.30.18	108	5	Cell 2 Floor		BA-4	116.2	87.0	89.4	97.3	95.0	33.6	29.0	PASS
5.30.18	109	5	Cell 2 Floor		BA-4	115.9	87.7	89.4	98.1	95.0	32.1	29.0	PASS
5.30.18	110	5	Cell 2 Floor		BA-4	114.7	88.0	89.4	98.5	95.0	30.3	29.0	PASS
5.31.18	111	1	Cell 2 Floor		BA-4	116.6	89.6	89.4	100.2	95.0	30.2	29.0	PASS
5.31.18	112	1	Cell 2 Floor		BA-4	113.4	86.2	89.4	96.4	95.0	31.6	29.0	PASS

Sumr ASTN	nary o I D 29	of Field)22	Density Test Resu	lts						-16	25809	DCC nterstate 3 Bryant, A	D 30 South 38 72022
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:		2	-			Reviewed	by:	Tony Bardell	a			
Site Lo	cation:	Fulton, AR		_			Approved	by:		a	-		
Contrac	tor:	5FC		-			Test Loca	tion:					
Test	Test	Lift or	Test Location	Shelby Tube	Mat'l.	Wet Density,	Dry Density,	Lab Max. Dry Density,	Percent Compaction	Percent Compaction	Moisture Content	Optimum Moisture	PASS or
Date	No.	Elev.		Sample	INO.	pcf	pcf	pcf	%	Required		%	FAIL
5.31.18	113	1	Cell 2 Floor		BA-4	115.2	88.5	89.4	99.0	95.0	30.1	29.0	PASS
5.31.18	114	1	Cell 2 Floor	P16	BA-4	116.4	87.6	89.4	98.0	95.0	32.9	29.0	PASS
5.31.18	115	1	Cell 2 Floor	P17	BA-4	116.7	90.3	89.4	101.0	95.0	29.2	29.0	PASS
5.31.18	116	1	Cell 2 Floor		BA-4	117.2	91.7	89.4	102.6	95.0	27.8	29.0	FAIL
5.31.18	116R	1	Cell 2 Floor	P18	BA-4	113.6	86.9	89.4	97.2	95.0	30.7	29.0	PASS
5.31.18	117	1	Cell 2 Floor		BA-4	115.3	87.5	89.4	97.9	95.0	31.7	29.0	PASS
5.31.18	118	1	Cell 2 Floor		BA-4	114.2	87.6	89.4	98.0	95.0	30.3	29.0	PASS
5.31.18	119	1	Cell 2 Floor		BA-4	117.4	90.4	89.4	101.1	95.0	29.9	29.0	PASS
5.31.18	120	1	Cell 2 Floor	P19	BA-4	111.9	85.2	89.4	95.3	95.0	31.4	29.0	PASS
5.31.18	121	1	Cell 2 Floor	P20	BA-4	113.3	85.2	89.4	95.3	95.0	33.0	29.0	PASS
5.31.18	122	1	Cell 2 Floor	P21	BA-4	115.7	88.9	89.4	99.4	95.0	30.2	29.0	PASS
6.1.18	123	2	Cell 2 Floor	P22	BA-4	113.4	86.0	89.4	96.2	95.0	31.8	29.0	PASS
6.1.18	124	2	Cell 2 Floor	P23	BA-4	115.8	87.9	89.4	98.3	95.0	31.8	29.0	PASS
6.1.18	125	2	Cell 2 Floor	P24	BA-4	116.6	89.7	89.4	100.3	95.0	30.0	29.0	PASS

ASTN	1 D 29	22	,								25809	nterstate 3	30 South
Client N Project Site Lo Contrae	Name: Name: cation: ctor:	American Turk Cell 2 Fulton, AR SFC	Electric Power 2	- - -			Technicia Reviewed Approved Test Loca	n: by: by: tion:	Matt Acree Tony Bardella Tony Bardella Cell 2	a a		Bryant, A (501) 8	1R 72022 347-9292
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'I. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
6.1.18	126	2	Cell 2 Floor		BA-4	114.2	87.2	89.4	97.6	95.0	30.9	29.0	PASS
6.1.18	127	2	Cell 2 Floor		BA-4	112.8	86.9	89.4	97.2	95.0	29.8	29.0	PASS
6.1.18	128	2	Cell 2 Floor		BA-4	112.7	85.8	89.4	95.9	95.0	31.4	29.0	PASS
6.1.18	129	2	Cell 2 Floor		BA-4	116.4	86.7	89.4	96.9	95.0	34.3	29.0	PASS
6.1.18	130	2	Cell 2 Floor		BA-4	114.9	88.9	89.4	99.5	95.0	29.2	29.0	PASS
6.2.18	131	2	Cell 2 Floor		BA-4	116.7	88.9	89.4	99.5	95.0	31.2	29.0	PASS
6.2.18	132	2	Cell 2 Floor		BA-4	114.9	87.1	89.4	97.4	95.0	31.9	29.0	PASS
6.2.18	133	2	Cell 2 Floor		BA-4	116.1	89.0	89.4	99.5	95.0	30.5	29.0	PASS
6.2.18	134	2	Cell 2 Floor		BA-4	116.1	87.3	89.4	97.6	95.0	33.0	29.0	PASS
6.2.18	135	2	Cell 2 Floor		BA-4	112.6	87.1	89.4	97.4	95.0	29.3	29.0	PASS
6.2.18	136	2	Cell 2 Floor	P25	BA-4	115.8	89.0	89.4	99.6	95.0	30.1	29.0	PASS
6.2.18	137	2	Cell 2 Floor	P26	BA-4	113.0	85.7	89.4	95.8	95.0	31.9	29.0	PASS
6.2.18	138	2	Cell 2 Floor	P27	BA-4	115.8	89.1	89.4	99.7	95.0	29.9	29.0	PASS
6.2.18	139	3	Cell 2 Floor	P28	BA-4	115.5	88.6	89.4	99.1	95.0	30.4	29.0	PASS

-lerracon

Sumr ASTN	mary (I D 29	of Field 922	Density Test Resu	lts						-16	25809	DCC Interstate 3	30 South
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	_			Reviewed	by:	Tony Bardell	а			
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		-			Test Loca	ition:	Cell 2				
				Shelby	Matil	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Nat I. No.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample		pcf	pcf	pcf	%	Required		%	FAIL
6.2.18	140	3	Cell 2 Floor	P29	BA-4	116.2	88.6	89.4	99.1	95.0	31.1	29.0	PASS
6.2.18	141	3	Cell 2 Floor	P30	BA-4	116.9	90.5	89.4	101.2	95.0	29.2	29.0	PASS
6.2.18	142	3	Cell 2 Floor		BA-4	113.2	86.3	89.4	96.6	95.0	31.1	29.0	PASS
6.2.18	143	3	Cell 2 Floor		BA-4	112.7	85.4	89.4	95.6	95.0	31.9	29.0	PASS
6.2.18	144	3	Cell 2 Floor		BA-4	114.2	87.7	89.4	98.1	95.0	30.2	29.0	PASS
6.2.18	145	3	Cell 2 Floor		BA-4	114.9	87.8	89.4	98.2	95.0	30.9	29.0	PASS
6.2.18	146	3	Cell 2 Floor		BA-4	114.7	87.6	89.4	97.9	95.0	31.0	29.0	PASS
6.3.18	147	3	Cell 2 Floor		BA-5	116.8	88.7	89.1	99.5	95.0	31.7	28.8	PASS
6.3.18	148	3	Cell 2 Floor	P31	BA-5	117.0	89.3	89.1	100.2	95.0	31.0	28.8	PASS
6.3.18	149	3	Cell 2 Floor		BA-5	115.8	86.4	89.1	97.0	95.0	34.0	28.8	PASS
6.3.18	150	3	Cell 2 Floor	P32	BA-5	117.0	89.6	89.1	100.5	95.0	30.6	28.8	PASS
6.3.18	151	3	Cell 2 Floor		BA-5	115.1	86.0	89.1	96.5	95.0	33.9	28.8	PASS
6.3.18	152	3	Cell 2 Floor	P33	BA-5	118.2	90.3	89.1	101.3	95.0	30.9	28.8	PASS
6.3.18	153	3	Cell 2 Floor		BA-5	115.0	88.4	89.1	99.2	95.0	30.1	28.8	PASS

Sumr ASTN	nary (1 D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC nterstate 3 Bryant, A	D 80 South .R 72022
Client N	lame:	American	Electric Power	-			Technicia	n:	Matt Acree	_		(501) 8	347-9292
Project	Name:		2	-			Reviewed	by:	Tony Bardell	a			
Site Lo	cation:	Fulton, AR		-			Approved	Dy: tion:		a	,		
Contrac	ctor:	SFC		-			Test Loca	tion:					
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
6.3.18	154	3	Cell 2 Floor	P34	BA-5	115.8	89.7	89.1	100.7	95.0	29.1	28.8	PASS
6.3.18	155	4	Cell 2 Floor	P35	BA-5	114.8	87.0	89.1	97.7	95.0	31.9	28.8	PASS
6.3.18	156	4	Cell 2 Floor	P36	BA-5	114.8	88.7	89.1	99.6	95.0	29.4	28.8	PASS
6.3.18	157	4	Cell 2 Floor		BA-5	114.2	85.5	89.1	96.0	95.0	33.5	28.8	PASS
6.3.18	158	4	Cell 2 Floor		BA-5	116.0	88.2	89.1	99.0	95.0	31.5	28.8	PASS
6.4.18	159	4	Cell 2 Floor		BA-4	116.2	88.4	89.4	98.9	95.0	31.4	29.0	PASS
6.4.18	160	4	Cell 2 Floor		BA-4	111.9	85.4	89.4	95.5	95.0	31.0	29.0	PASS
6.4.18	161	4	Cell 2 Floor		BA-4	114.9	87.1	89.4	97.4	95.0	31.9	29.0	PASS
6.4.18	162	4	Cell 2 Floor	P37	BA-4	114.6	87.8	89.4	98.2	95.0	30.5	29.0	PASS
6.4.18	163	4	Cell 2 Floor	P38	BA-4	112.6	85.4	89.4	95.5	95.0	31.9	29.0	PASS
6.4.18	164	4	Cell 2 Floor		BA-4	113.5	86.5	89.4	96.8	95.0	31.2	29.0	PASS
6.4.18	165	4	Cell 2 Floor		BA-4	114.0	87.0	89.4	97.3	95.0	31.1	29.0	PASS
6.4.18	166	4	Cell 2 Floor	P39	BA-4	113.8	85.1	89.4	95.2	95.0	33.7	29.0	PASS
6.4.18	167	4	Cell 2 Floor		BA-4	113.1	85.2	89.4	95.3	95.0	32.8	29.0	PASS

Sumr ASTN	nary o I D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC Interstate 3 Bryant, A	30 South R 72022
Client N	lame:	American	Electric Power	-			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardella	a			
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardella	a			
Contrac	ctor:	SFC		-			Test Loca	tion:					
				Shelby	Motil	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Nati. No.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample		pcf	pcf	pcf	%	Required		%	FAIL
6.4.18	168	4	Cell 2 Floor	P40	BA-4	113.1	85.5	89.4	95.6	95.0	32.3	29.0	PASS
6.4.18	169	4	Cell 2 Floor		BA-4	114.9	88.2	89.4	98.6	95.0	30.3	29.0	PASS
6.4.18	170	4	Cell 2 Floor		BA-4	114.0	87.0	89.4	97.3	95.0	31.0	29.0	PASS
6.5.18	171	5	Cell 2 Floor		BA-4	113.6	85.7	89.4	95.9	95.0	32.5	29.0	PASS
6.5.18	172	5	Cell 2 Floor		BA-4	114.3	88.4	89.4	98.9	95.0	29.3	29.0	PASS
6.5.18	173	5	Cell 2 Floor		BA-4	115.2	88.3	89.4	98.7	95.0	30.5	29.0	PASS
6.5.18	174	5	Cell 2 Floor		BA-6	114.8	89.7	94.0	95.4	95.0	28.0	25.5	PASS
6.5.18	175	5	Cell 2 Floor		BA-4	114.3	88.3	89.4	98.7	95.0	29.5	29.0	PASS
6.5.18	176	5	Cell 2 Floor		BA-4	114.3	88.5	89.4	99.0	95.0	29.1	29.0	PASS
6.5.18	177	5	Cell 2 Floor		BA-6	117.3	92.3	94.0	98.2	95.0	27.1	25.5	PASS
6.5.18	178	5	Cell 2 Floor		BA-5	114.5	88.8	89.1	99.7	95.0	28.9	28.8	PASS
6.6.18	179	1	South Berm		BA-6	116.5	91.5	94.0	97.4	95.0	27.3	25.5	PASS
6.6.18	180	1	South Berm	P41	BA-6	117.0	92.1	94.0	98.0	95.0	27.0	25.5	PASS
6.6.18	181	1	South Berm		BA-6	116.7	91.8	94.0	97.7	95.0	27.1	25.5	PASS

										-76			
Sum	nary o	of Field	Density Test Resu	lts									
ASIN	/I D 29	122									25809	Brvant, A	30 South R 72022
Client N	lame:	American	Electric Power				Technicia	n:	Matt Acree			(501) {	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а		· · ·	
Site Lo	cation:	Fulton, AR		_			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		_			Test Loca	tion:	Cell 2		<u>.</u>		
				Shelby	Mat'l	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	No.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample		pcf	pcf	pct	%	Required		%	FAIL
6.6.18	182	5	Cell 2 Floor		BA-1	123.0	100.2	102.1	98.1	95.0	22.8	19.7	PASS
6.6.18	183	5	Cell 2 Floor		BA-1	121.5	97.9	102.1	95.9	95.0	24.1	19.7	PASS
6.6.18	184	5	Cell 2 Floor		BA-6	114.5	90.7	94.0	96.5	95.0	26.2	25.5	PASS
6.6.18	185	5	Cell 2 Floor		BA-6	119.2	94.8	94.0	100.9	95.0	25.7	25.5	PASS
6.6.18	186	5	Cell 2 Floor		BA-1	120.0	97.6	102.1	95.6	95.0	22.9	19.7	PASS
6.6.18	187	5	Cell 2 Floor		BA-6	115.2	91.2	94.0	97.0	95.0	26.3	25.5	PASS
6.6.18	188	5	Cell 2 Floor		BA-6	119.6	94.9	94.0	101.0	95.0	26.0	25.5	PASS
6.6.18	189	5	Cell 2 Floor		BA-6	117.0	92.8	94.0	98.7	95.0	26.1	25.5	PASS
6.6.18	190	2	South Berm		BA-1	121.3	100.2	102.1	98.1	95.0	21.1	19.7	PASS
6.6.18	191	2	South Berm		BA-1	119.7	97.1	102.1	95.1	95.0	23.3	19.7	PASS
6.6.18	192	2	South Berm	P42	BA-6	116.6	92.1	94.0	98.0	95.0	26.6	25.5	PASS
6.6.18	193	3	South Berm	P43	BA-6	115.3	91.1	94.0	97.0	95.0	26.5	25.5	PASS
6.6.18	194	3	South Berm		BA-6	120.2	94.9	94.0	101.0	95.0	26.6	25.5	PASS
6.6.18	195	3	South Berm		BA-6	120.4	95.9	94.0	102.0	95.0	25.6	25.5	PASS

Sum ASTN	nary o I D 29	of Field 22	Density Test Resu	lts			Technicia	n.	Matt Acres	-16	25809	DCC Interstate 3 Bryant, A	3 0 South R 72022
Project	Name:	Turk Cell 2		-			Reviewed	by:	Tony Bardell	а		(501) (047-7272
Site Lo	cation:	Fulton, AR		-			Approved	bv:	Tony Bardell	а	•		
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2				
				-									
				Shelby		Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Mat'i. No	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample	110.	pcf	pcf	pcf	%	Required		%	FAIL
6.7.18	196	4	South Berm		BA-6	118.2	93.1	94.0	99.0	95.0	27.0	25.5	PASS
6.7.18	197	4	South Berm	P44	BA-6	119.3	94.7	94.0	100.7	95.0	26.0	25.5	PASS
6.7.18	198	4	South Berm		BA-6	118.9	94.0	94.0	100.0	95.0	26.5	25.5	PASS
6.7.18	199	1	West Berm		BA-1	119.6	98.0	102.1	96.0	95.0	22.0	19.7	PASS
6.7.18	200	1	West Berm		BA-4	113.1	87.3	89.4	97.6	95.0	29.6	29.0	PASS
6.7.18	201	1	West Berm		BA-1	122.0	99.0	102.1	97.0	95.0	23.2	19.7	PASS
6.7.18	202	5	South Berm		BA-6	117.0	91.3	94.0	97.2	95.0	28.1	25.5	PASS
6.7.18	203	5	South Berm		BA-6	115.8	89.4	94.0	95.1	95.0	29.5	25.5	PASS
6.8.18	204	1	West Berm	P-45	BA-1	123.2	99.1	102.1	97.1	95.0	24.3	19.7	PASS
6.8.18	205	2	West Berm		BA-1	120.9	98.9	102.1	96.9	95.0	22.2	19.7	PASS
6.8.18	206	2	West Berm	P-46	BA-1	120.6	97.7	102.1	95.7	95.0	23.4	19.7	PASS
6.9.18	207	2	West Berm		BA-6	119.4	95.1	94.0	101.1	95.0	25.6	25.5	PASS
6.9.18	208	2	West Berm		BA-6	118.8	94.3	94.0	100.3	95.0	26.0	25.5	PASS
6.9.18	209	3	West Berm		BA-1	120.3	98.5	102.1	96.5	95.0	22.1	19.7	PASS

Sumr ASTN	mary o I D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC nterstate 3	D 30 South
Client N Project Site Lo Contrac	lame: Name: cation: ctor:	American Turk Cell 2 Fulton, AR SFC	Electric Power	- - -			Technicia Reviewed Approved Test Loca	n: by: by: tion:	Matt Acree Tony Bardell Tony Bardell Cell 2	a		(501) (501)	347-9292
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
6.9.18	210	3	West Berm		BA-1	120.5	97.3	102.1	95.3	95.0	23.8	19.7	PASS
6.9.18	211	3	West Berm	P47	BA-1	121.9	98.1	102.1	96.1	95.0	24.2	19.7	PASS
6.9.18	212	3	West Berm		BA-6	115.6	91.5	94.0	97.3	95.0	26.4	25.5	PASS
6.9.18	213	3	West Berm		BA-1	120.9	97.5	102.1	95.5	95.0	24.0	19.7	PASS
6.11.18	214	4	West Berm		BA-6	116.5	92.6	94.0	98.5	95.0	25.8	25.5	PASS
6.11.18	215	4	West Berm		BA-6	115.7	91.3	94.0	97.1	95.0	26.7	25.5	PASS
6.11.18	216	4	West Berm		BA-6	118.6	94.3	94.0	100.3	95.0	25.8	25.5	PASS
6.11.18	217	4	West Berm	P-48	BA-2	119.6	95.8	95.3	100.6	95.0	24.8	24.6	PASS
6.11.18	218	4	West Berm		BA-2	113.5	90.6	95.3	95.0	95.0	25.3	24.6	PASS
6.11.18	219	4	West Berm		BA-2	116.3	92.3	95.3	96.9	95.0	26.0	24.6	PASS
6.11.18	220	4	West Berm		BA-2	117.3	93.4	95.3	98.0	95.0	25.6	24.6	PASS
6.11.18	221	4	West Berm		BA-2	117.4	93.8	95.3	98.5	95.0	25.1	24.6	PASS
6.11.18	222	4	West Berm	P-49	BA-2	116.1	92.4	95.3	96.9	95.0	25.7	24.6	PASS
6.11.18	223	4	West Berm		BA-2	116.7	93.5	95.3	98.1	95.0	24.8	24.6	PASS

										_16			
Sum	nary o	of Field	Density Test Resul	lts									
ASIN)22									25004 1	Bryant, A	R 72022
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а			
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		<u>.</u>			Test Loca	tion:	Cell 2				
				Shelby	Motil	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	Nati. No.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample		pcf	pcf	pcf	%	Required		%	FAIL
6.12.18	224	5	West Berm		BA-1	118.8	97.3	102.1	95.3	95.0	22.1	19.7	PASS
6.12.18	225	5	West Berm		BA-1	122.5	100.0	102.1	97.9	95.0	22.5	19.7	PASS
6.12.18	226	5	West Berm		BA-2	117.0	93.2	95.3	97.7	95.0	25.6	24.6	PASS
6.12.18	227	5	West Berm		BA-1	122.5	99.2	102.1	97.2	95.0	23.5	19.7	PASS
6.12.18	228	5	West Berm		BA-1	123.0	100.9	102.1	98.8	95.0	21.9	19.7	PASS
6.12.18	229	5	West Berm		BA-2	118.4	94.5	95.3	99.2	95.0	25.3	24.6	PASS
6.12.18	230	5	West Berm		BA-2	118.1	94.3	95.3	98.9	95.0	25.3	24.6	PASS
6.12.18	231	5	West Berm		BA-2	117.2	93.8	95.3	98.5	95.0	24.9	24.6	PASS
6.12.18	232	5	West Berm		BA-1	123.9	101.1	102.1	99.0	95.0	22.6	19.7	PASS
6.13.18	233	1	West Berm		BA-2	114.8	90.8	95.3	95.3	95.0	26.4	24.6	PASS
6.13.18	234	1	West Berm		BA-1	120.6	98.4	102.1	96.4	95.0	22.5	19.7	PASS
6.13.18	235	1	West Berm		BA-2	115.6	91.9	95.3	96.4	95.0	25.8	24.6	PASS
6.13.18	236	2	West Berm		BA-2	115.7	90.7	95.3	95.1	95.0	27.6	24.6	PASS
6.13.18	237	2	West Berm		BA-2	119.8	94.9	95.3	99.6	95.0	26.2	24.6	PASS

ASTN	1 D 29	22	,,								25809	Interstate 3	30 South
Client N Project Site Loo Contrac	lame: Name: cation: ctor:	American Turk Cell 2 Fulton, AR SFC	Electric Power	- - -			Technicia Reviewed Approved Test Loca	n: by: by: tion:	Matt Acree Tony Bardella Tony Bardella Cell 2	a a		Bryant, A (501) 8	172022 347-9292
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
6.13.18	238	2	West Berm		BA-2	119.9	95.9	95.3	100.7	95.0	25.0	24.6	PASS
6.13.18	239	1	West Berm		BA-2	115.3	91.5	95.3	96.0	95.0	26.0	24.6	PASS
6.13.18	240	1	West Berm		BA-1	121.9	98.9	102.1	96.9	95.0	23.2	19.7	PASS
6.13.18	241	3	West Berm		BA-1	119.7	98.1	102.1	96.1	95.0	22.0	19.7	PASS
6.13.18	242	3	West Berm		BA-2	115.3	91.2	95.3	95.7	95.0	26.4	24.6	PASS
6.13.18	243	3	West Berm		BA-2	120.5	96.2	95.3	101.0	95.0	25.2	24.6	PASS
6.13.18	244	2	West Berm		BA-2	118.9	95.4	95.3	100.1	95.0	24.6	24.6	PASS
6.13.18	245	2	West Berm		BA-1	120.6	97.7	102.1	95.7	95.0	23.4	19.7	PASS
6.13.18	246	2	West Berm		BA-2	117.6	93.3	95.3	97.9	95.0	26.0	24.6	PASS
6.19.18	247	1	East Berm/Tie-in		BA-1	122.3	100.2	102.1	98.2	95.0	22.0	19.7	PASS
6.19.18	248	1	East Berm/Tie-in	P-50	BA-1	124.3	100.3	102.1	98.3	95.0	23.9	19.7	PASS
6.19.18	249	1	East Berm/Tie-in		BA-2	119.8	94.7	95.3	99.4	95.0	26.5	24.6	PASS
6.19.18	250	2	East Berm/Tie-in		BA-2	120.4	95.8	95.3	100.5	95.0	25.7	24.6	PASS
6.19.18	251	2	East Berm/Tie-in		BA-2	117.7	93.2	95.3	97.8	95.0	26.3	24.6	PASS



Sumr ASTN	nary (I D 29	of Field 022	Density Test Resu	lts						-16	25809	DCC Interstate 3	30 South
Client N Project	lame: Name:	American I Turk Cell 2	Electric Power				Technicia Reviewed	n: by:	Matt Acree Tony Bardell	a		(501) 8	347-9292
Site Lo	cation: ctor:	SFC		-			Test Loca	tion:	Cell 2	a			
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
6.19.18	252	2	East Berm/Tie-in	P-51	BA-2	121.1	95.6	95.3	100.3	95.0	26.7	24.6	PASS
6.19.18	253	3	West Berm		BA-2	118.7	93.8	95.3	98.5	95.0	26.5	24.6	PASS
6.19.18	254	3	West Berm		BA-4	113.7	85.4	89.4	95.5	95.0	33.2	29.0	PASS
6.19.18	255	3	West Berm		BA-4	112.5	85.4	89.4	95.5	95.0	31.8	29.0	PASS
6.20.18	256	3	East Berm/Tie-in		BA-4	111.3	80.8	89.4	90.3	95.0	37.8	29.0	FAIL
6.23.18	256R	3	East Berm/Tie-in		BA-4	114.6	85.4	89.4	95.5	95.0	34.2	29.0	PASS
6.23.18	257	3	East Berm/Tie-in		BA-4	116.1	89.4	89.4	100.0	95.0	29.9	29.0	PASS
6.23.18	258	3	East Berm/Tie-in	P-52	BA-4	114.0	86.0	89.4	96.2	95.0	32.6	29.0	PASS
6.23.18	259	4	East Berm/Tie-in		BA-4	114.5	87.4	89.4	97.8	95.0	31.0	29.0	PASS
6.23.18	260	4	East Berm/Tie-in		BA-4	114.4	88.0	89.4	98.4	95.0	30.0	29.0	PASS
6.23.18	261	4	East Berm/Tie-in		BA-4	119.0	91.9	89.4	102.8	95.0	29.5	29.0	PASS
6.24.18	262	1	East Berm	P-53	BA-6	120.9	94.6	94.0	100.6	95.0	27.8	25.5	PASS
6.24.18	263	1	East Berm		BA-6	118.6	92.2	94.0	98.1	95.0	28.6	25.5	PASS
6.24.18	264	1	East Berm		BA-6	121.3	93.6	94.0	99.6	95.0	29.6	25.5	PASS

Sumr ASTN	nary o I D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC Interstate 3 Bryant A	30 South
Client N	lame:	American	Electric Power				Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а			
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2				
Test	Test	Lift or	Test Location	Shelby Tube	Mat'l. No.	Wet Density,	Dry Density,	Lab Max. Dry Density,	Percent Compaction	Percent Compaction	Moisture Content	Optimum Moisture	PASS or
Date	No.	Elev.		Sample		pcf	pcf	pcf	%	Required		%	FAIL
6.24.18	265	5	East Berm/Tie-in		BA-6	119.8	93.4	94.0	99.3	95.0	28.3	25.5	PASS
6.24.18	266	5	East Berm/Tie-in		BA-6	118.1	92.3	94.0	98.2	95.0	27.9	25.5	PASS
6.24.18	267	5	East Berm/Tie-in		BA-6	120.9	94.3	94.0	100.3	95.0	28.2	25.5	PASS
6.24.18	268	2	East Berm		BA-6	119.6	94.3	94.0	100.3	95.0	26.8	25.5	PASS
6.24.18	269	2	East Berm		BA-6	119.5	95.1	94.0	101.1	95.0	25.7	25.5	PASS
6.24.18	270	2	East Berm		BA-6	119.8	93.8	94.0	99.8	95.0	27.7	25.5	PASS
6.24.18	271	3	East Berm		BA-6	119.2	94.5	94.0	100.6	95.0	26.1	25.5	PASS
6.24.18	272	3	East Berm		BA-4	116.6	89.1	89.4	99.6	95.0	30.9	29.0	PASS
6.24.18	273	3	East Berm		BA-6	119.7	93.5	94.0	99.5	95.0	28.0	25.5	PASS
6.25.18	274	4	West Berm		BA-4	112.4	85.2	89.4	95.2	95.0	32.0	29.0	PASS
6.25.18	275	4	West Berm		BA-4	115.5	88.2	89.4	98.7	95.0	30.9	29.0	PASS
6.25.18	276	4	West Berm		BA-4	115.7	88.9	89.4	99.4	95.0	30.2	29.0	PASS
6.25.18	277	5	West Berm		BA-4	114.0	87.0	89.4	97.3	95.0	31.0	29.0	PASS
6.25.18	278	5	West Berm		BA-6	118.0	92.1	94.0	98.0	95.0	28.1	25.5	PASS

				_						-76			
Sum	nary o	of Field	Density Test Resu	lts									
ASIN)//									200071	Bryant, A	R 72022
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree			(501) 8	847-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а			
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2				
		1					2					A 11	5100
Teet	Teet	Lift or	Testien	Shelby	Mat'l.	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	LITT OF	lest Location	I UDe Somplo	No.	Density,	Density,	Dry Density,		Compaction	Content	MOISTURE	or
Date	NO.	Elev.		Sample		μει	μει	μει	70	Required		70	FAIL
6.25.18	279	5	West Berm		BA-6	116.8	91.3	94.0	97.1	95.0	28.0	25.5	PASS
6.25.18	280	5	West Berm		BA-4	114.1	88.0	89.4	98.4	95.0	29.7	29.0	PASS
6.25.18	281	4	East Berm		BA-6	119.2	93.5	94.0	99.5	95.0	27.5	25.5	PASS
6.25.18	282	4	East Berm		BA-6	118.0	92.5	94.0	98.4	95.0	27.6	25.5	PASS
6.25.18	283	4	East Berm		BA-6	116.3	90.3	94.0	96.1	95.0	28.8	25.5	PASS
6.25.18	284	5	East Berm		BA-6	117.3	92.1	94.0	98.0	95.0	27.3	25.5	PASS
6.25.18	285	5	East Berm		BA-6	117.3	91.3	94.0	97.1	95.0	28.5	25.5	PASS
6.26.18	286	1	West Berm		BA-4	116.7	90.1	89.4	100.8	95.0	29.5	29.0	PASS
6.26.18	287	1	West Berm		BA-4	113.1	85.6	89.4	95.7	95.0	32.2	29.0	PASS
6.26.18	288	1	West Berm		BA-4	115.0	87.1	89.4	97.4	95.0	32.1	29.0	PASS
6.26.18	289	1	West Berm		BA-4	112.3	86.3	89.4	96.6	95.0	30.1	29.0	PASS
6.26.18	290	1	West Berm		BA-4	113.4	85.8	89.4	95.9	95.0	32.2	29.0	PASS
6.26.18	291	2	West Berm		BA-4	115.8	89.1	89.4	99.7	95.0	29.9	29.0	PASS
6.26.18	292	2	West Berm	P-54	BA-4	114.6	86.9	89.4	97.3	95.0	31.8	29.0	PASS

	Summary of Field Density Test Results													
Sum	nary o	of Field	Density Test Resu	lts										
ASIN	ID 29)22									258091	Brvant, A	80 South R 72022	
Client N	lame:	American	Electric Power				Technicia	n:	Matt Acree			(501) 8	347-9292	
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а				
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardell	а				
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2					
		1								1				
. .	÷ .		-	Shelby	Mat'l.	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS	
lest Dete	lest	Lift or	lest Location	lube	No.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or	
Date	NO.	Elev.		Sample		pcf	pcr	pcf	%	Required		%	FAIL	
6.26.18	293	2	West Berm		BA-4	114.1	88.3	89.4	98.8	95.0	29.2	29.0	PASS	
6.26.18	294	2	West Berm		BA-4	114.3	85.7	89.4	95.9	95.0	33.3	29.0	PASS	
6.26.18	295	2	West Berm		BA-4	114.5	86.9	89.4	97.2	95.0	31.7	29.0	PASS	
6.27.18	296	3	West Berm		BA-4	115.8	87.5	89.4	97.8	95.0	32.4	29.0	PASS	
6.27.18	297	3	West Berm		BA-4	114.1	86.0	89.4	96.2	95.0	32.7	29.0	PASS	
6.27.18	298	3	West Berm		BA-4	113.1	85.2	89.4	95.3	95.0	32.8	29.0	PASS	
6.27.18	299	1	West Berm		BA-4	113.2	85.1	89.4	95.2	95.0	33.0	29.0	PASS	
6.27.18	300	3	West Berm		BA-4	114.5	86.0	89.4	96.2	95.0	33.2	29.0	PASS	
6.27.18	301	3	West Berm		BA-4	115.0	87.0	89.4	97.3	95.0	32.2	29.0	PASS	
6.27.18	302	1	West Berm		BA-4	114.3	87.7	89.4	98.1	95.0	30.3	29.0	PASS	
6.27.18	303	4	West Berm		BA-4	115.8	87.3	89.4	97.7	95.0	32.6	29.0	PASS	
6.27.18	304	4	West Berm		BA-4	113.0	85.8	89.4	96.0	95.0	31.7	29.0	PASS	
6.27.18	305	4	West Berm	P-55	BA-4	113.8	87.5	89.4	97.9	95.0	30.0	29.0	PASS	
6.27.18	306	2	West Berm		BA-4	114.6	86.5	89.4	96.7	95.0	32.5	29.0	PASS	

	Summary of Field Density Test Results													
Sum	nary (of Field	Density Test Resul	lts							25000			
ASIN)22									200091	Bryant, A	R 72022	
Client N	lame:	American	Electric Power	_			Technicia	n:	Matt Acree			(501) 8	347-9292	
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а				
Site Lo	cation:	Fulton, AR	ł	-			Approved	by:	Tony Bardell	а				
Contrac	ctor:	SFC		-			Test Loca	tion:	Cell 2					
		1					5						5400	
Teet	Teet	Lift or	Test Leastion	Shelby	Mat'l.	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS	
Data	No	Elov	Test Location	Samplo	No.	Density,	Density,	Dry Density,		Doquirod	Content	worsture	Or	
Dale	NO.	LIEV.		Sample		рсі	μει	pci	70	Required		/0	FAIL	
6.27.18	307	4	West Berm		BA-4	115.9	87.8	89.4	98.2	95.0	32.0	29.0	PASS	
6.27.18	308	4	West Berm		BA-4	115.1	87.8	89.4	98.2	95.0	31.1	29.0	PASS	
6.27.18	309	2	West Berm		BA-4	113.5	86.3	89.4	96.5	95.0	31.5	29.0	PASS	
6.29.18	310	5	West Berm		BA-4	115.7	87.5	89.4	97.9	95.0	32.2	29.0	PASS	
6.29.18	311	5	West Berm		BA-4	114.4	86.5	89.4	96.7	95.0	32.3	29.0	PASS	
6.29.18	312	5	West Berm		BA-4	114.7	86.5	89.4	96.8	95.0	32.6	29.0	PASS	
6.29.18	313	3	West Berm		BA-4	116.4	88.2	89.4	98.7	95.0	31.9	29.0	PASS	
6.29.18	314	4	West Berm		BA-4	115.7	88.9	89.4	99.5	95.0	30.1	29.0	PASS	
6.29.18	315	3	West Berm		BA-4	114.6	86.9	89.4	97.3	95.0	31.8	29.0	PASS	
6.29.18	316	4	East Berm		BA-4	113.8	85.8	89.4	95.9	95.0	32.7	29.0	PASS	
6.29.18	317	4	East Berm		BA-4	114.5	88.1	89.4	98.5	95.0	30.0	29.0	PASS	
6.29.18	318	4	East Berm	P-56	BA-4	116.1	87.7	89.4	98.1	95.0	32.4	29.0	PASS	
6.29.18	319	2	East Berm	P-57	BA-4	112.9	85.9	89.4	96.0	95.0	31.5	29.0	PASS	
6.29.18	320	2	East Berm		BA-4	113.2	86.8	89.4	97.1	95.0	30.4	29.0	PASS	

Sum	nary (of Field	Donsity Test Resul	lte						-16	-		
ASTN	1 D 29)22	Density rest nesa	113							25809	Interstate 3	30 South
Client N	Jame.	American	Flectric Power				Technicia	n	Matt Acree			Bryant, A	R 72022
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	а		(301) (047-7272
Site Lo	cation:	Fulton, AR					Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC					Test Loca	tion:	Cell 2				
										_			
_				Shelby	Mat'l.	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	No.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	NO.	Elev.		Sample		pcf	pcf	pcf	%	Required		%	FAIL
6.29.18	321	4	West Berm		BA-4	113.9	85.4	89.4	95.6	95.0	33.3	29.0	PASS
6.29.18	322	3	West Berm		BA-4	112.6	85.9	89.4	96.1	95.0	31.1	29.0	PASS
6.30.18	323	5	East Berm		BA-6	115.6	90.6	94.0	96.4	95.0	27.6	25.5	PASS
6.30.18	324	5	East Berm		BA-4	115.2	88.8	89.4	99.3	95.0	29.8	29.0	PASS
6.30.18	325	5	East Berm		BA-4	114.0	86.1	89.4	96.3	95.0	32.4	29.0	PASS
6.30.18	326	4	East Berm		BA-4	113.7	86.5	89.4	96.8	95.0	31.4	29.0	PASS
6.30.18	327	4	East Berm		BA-4	115.6	88.0	89.4	98.4	95.0	31.4	29.0	PASS
6.30.18	328	5	East Berm		BA-6	118.5	93.8	94.0	99.8	95.0	26.3	25.5	PASS
6.30.18	329	5	East Berm		BA-6	116.3	90.0	94.0	95.8	95.0	29.2	25.5	PASS
6.30.18	330	5	West Berm		BA-6	119.2	94.2	94.0	100.2	95.0	26.6	25.5	PASS
6.30.18	331	5	West Berm		BA-6	117.8	92.0	94.0	97.8	95.0	28.1	25.5	PASS
7.10.18	332	1	Cell 2 Floor (North)	P-58	BA-6	119.0	93.0	94.0	98.9	95.0	28.0	25.5	PASS
7.10.18	333	1	Cell 2 Floor (North)		BA-6	117.5	90.8	94.0	96.6	95.0	29.4	25.5	PASS
7.10.18	334	1	Cell 2 Floor (North)		BA-6	122.5	96.5	94.0	102.7	95.0	26.9	25.5	PASS

Sumr ASTN	nary o I D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC Interstate 3 Brvant, A	00 80 South R 72022
Client N	lame:	American E	Electric Power	_			Technicia	n:	Matt Acree		<u>.</u>	(501) 8	347-9292
Project	Name:	Turk Cell 2		-			Reviewed	by:	Tony Bardell	а	-		
Site Loc	cation:	Fulton, AR		-			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC					Test Loca	tion:					
Test	Test	Lift or	Test Location	Shelby Tube	Mat'l. No.	Wet Density,	Dry Density,	Lab Max. Dry Density,	Percent Compaction	Percent Compaction	Moisture Content	Optimum Moisture	PASS or
Date	No.	Elev.		Sample		pcf	pct	pct	%	Required		%	FAIL
7.10.18	335	1	Cell 2 Floor (North)		BA-6	118.6	91.7	94.0	97.6	95.0	29.3	25.5	PASS
7.10.18	336	1	Cell 2 Floor (North)		BA-6	119.4	93.7	94.0	99.7	95.0	27.4	25.5	PASS
7.10.18	337	1	Cell 2 Floor (North)		BA-6	119.1	93.1	94.0	99.1	95.0	27.9	25.5	PASS
7.10.18	338	`1	Cell 2 Floor (North)	P-59	BA-6	120.8	95.0	94.0	101.0	95.0	27.2	25.5	PASS
7.10.18	339	1	Cell 2 Floor (North)		BA-6	116.7	90.7	94.0	96.5	95.0	28.6	25.5	PASS
7.11.18	340	1	East Berm		BA-6	116.2	91.8	94.0	97.6	95.0	26.6	25.5	PASS
7.11.18	341	2	Cell 2 Floor (North)	P-60	BA-6	121.1	94.2	94.0	100.2	95.0	28.6	25.5	PASS
7.11.18	342	2	Cell 2 Floor (North)		BA-13	125.2	99.8	103.3	96.6	95.0	25.5	22.6	PASS
7.11.18	343	2	Cell 2 Floor (North)		BA-6	117.9	90.7	94.0	96.5	95.0	30.0	25.5	PASS
7.11.18	344	2	Cell 2 Floor (North)		BA-6	122.3	96.4	94.0	102.5	95.0	26.9	25.5	PASS
7.11.18	345	2	Cell 2 Floor (North)	P-61	BA-6	119.7	94.1	94.0	100.1	95.0	27.2	25.5	PASS
7.11.18	346	2	Cell 2 Floor (North)		BA-6	118.9	93.9	94.0	99.9	95.0	26.6	25.5	PASS
7.11.18	347	2	Cell 2 Floor (North)		BA-6	118.5	92.0	94.0	97.9	95.0	28.8	25.5	PASS
7.11.18	348	2	Cell 2 Floor (North)		BA-6	116.5	91.8	94.0	97.7	95.0	26.9	25.5	PASS

				14 -						-76	366		
Sum	nary o ע ח מ	of Field	Density Test Resu	Its							25800	Interstate 3	
ASTR											23009	Bryant, A	R 72022
Client N	lame:	American	Electric Power	-			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	a			
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardell	а			
Contrac	ctor:	SFC		-			Test Loca	ition:					
				Shelby	Motil	Wet	Dry	Lab Max.	Percent	Percent	Moisture	Optimum	PASS
Test	Test	Lift or	Test Location	Tube	No.	Density,	Density,	Dry Density,	Compaction	Compaction	Content	Moisture	or
Date	No.	Elev.		Sample		pcf	pcf	pcf	%	Required		%	FAIL
7.11.18	349	3	Cell 2 Floor (North)	P-62	BA-6	118.6	92.7	94.0	98.6	95.0	27.9	25.5	PASS
7.11.18	350	3	Cell 2 Floor (North)		BA-6	116.2	90.7	94.0	96.5	95.0	28.1	25.5	PASS
7.11.18	351	3	Cell 2 Floor (North)		BA-6	119.5	93.9	94.0	99.9	95.0	27.3	25.5	PASS
7.11.18	352	3	Cell 2 Floor (North)		BA-6	118.2	92.1	94.0	98.0	95.0	28.3	25.5	PASS
7.12.18	353	3	Cell 2 Floor (North)		BA-6	118.1	92.8	94.0	98.8	95.0	27.2	25.5	PASS
7.12.18	354	3	Cell 2 Floor (North)		BA-6	118.5	91.2	94.0	97.0	95.0	29.9	25.5	PASS
7.12.18	355	3	Cell 2 Floor (North)	P-63	BA-6	116.9	90.0	94.0	95.7	95.0	29.9	25.5	PASS
7.12.18	356	3	Cell 2 Floor (North)		BA-6	119.1	93.2	94.0	99.1	95.0	27.8	25.5	PASS
7.12.18	357	`4	Cell 2 Floor (North)	P-64	BA-6	116.9	92.4	94.0	98.3	95.0	26.5	25.5	PASS
7.12.18	358	`4	Cell 2 Floor (North)		BA-6	118.4	92.5	94.0	98.4	95.0	28.0	25.5	PASS
7.12.18	359	4	Cell 2 Floor (North)		BA-6	116.7	91.0	94.0	96.8	95.0	28.3	25.5	PASS
7.12.18	360	4	Cell 2 Floor (North)		BA-6	118.5	93.2	94.0	99.2	95.0	27.1	25.5	PASS
7.13.18	361	4	Cell 2 Floor (North)		BA-6	121.4	96.3	94.0	102.5	95.0	26.0	25.5	PASS
7.13.18	362	4	Cell 2 Floor (North)		BA-6	121.0	96.2	94.0	102.3	95.0	25.8	25.5	PASS

Sumr	nary o I D 29	of Field	Density Test Resul	ts						-16	25809	DCC Interstate 3	DN 30 South
Client N Project Site Loo Contrac	lame: Name: cation: ctor:	American Turk Cell 2 Fulton, AR SFC	Electric Power 2				Technicia Reviewed Approved Test Loca	n: by: by: tion:	Matt Acree Tony Bardella Tony Bardella Cell 2	a		Bryant, A (501) 8	NR 72022 347-9292
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
7.13.18	363	4	Cell 2 Floor (North)		BA-6	121.0	96.3	94.0	102.4	95.0	25.7	25.5	PASS
7.13.18	364	4	Cell 2 Floor (North)	P-65	BA-6	118.2	93.0	94.0	98.9	95.0	27.1	25.5	PASS
7.14.18	365	2	East Berm		BA-13	123.5	100.5	103.3	97.3	95.0	22.9	22.6	PASS
7.15.18	366	3	East Berm	P-66	BA-2	121.0	95.4	95.3	100.1	95.0	26.9	24.6	PASS
7.15.18	367	4	East Berm	P-67	BA-2	122.3	97.8	95.3	102.6	95.0	25.1	24.6	PASS
7.15.18	368	5	East Berm		BA-2	121.3	97.2	95.3	102.0	95.0	24.8	24.6	PASS
7.23.18	369	1	North Berm/Inside Slope		BA-13	124.3	103.7	103.3	100.4	95.0	19.9	22.6	FAIL
7.23.18	369R	1	North Berm/Inside Slope	P-70	BA-13	122.8	99.0	103.3	95.9	95.0	24.0	22.6	PASS
7.23.18	370	1	West Berm/Inside Slope	P-71	BA-13	123.7	98.8	103.3	95.6	95.0	25.2	22.6	PASS
7.24.18	371	2	North Berm/Inside Slope		BA-13	121.3	98.9	103.3	95.8	95.0	22.6	22.6	PASS
7.24.18	372	2	North Berm/Inside Slope		BA-2	117	93.2	95.3	97.8	95.0	25.5	24.6	PASS
7.24.18	373	2	West Berm/Inside Slope	P-72	BA-2	118.7	93.1	95.3	97.7	95.0	27.5	24.6	PASS
7.24.18	374	' 3	West Berm/Inside Slope	P-73	BA-2	117	93.6	95.3	98.2	95.0	25.0	24.6	PASS
7.24.18	375	3	North Berm/Inside Slope	P-74	BA-2	114.4	91.5	95.3	96.0	95.0	25.0	24.6	PASS

Sumi ASTN	mary o I D 29	of Field 22	Density Test Resul	ts						-16	25809	DCC Interstate 3	30 South
Client N Project Site Lo Contrac	Name: Name: cation: ctor:	American Turk Cell 2 Fulton, AR SFC	Electric Power 2				Technicia Reviewed Approved Test Loca	n: by: by: tion:	Matt Acree Tony Bardella Tony Bardella Cell 2	a		(501) 8	347-9292
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
7.24.18	376	3	North Berm/Inside Slope		BA-2	118.4	93.5	95.3	98.1	95.0	26.6	24.6	PASS
7.25.18	377	4	West Berm/Inside Slope		BA-2	117.7	93.3	95.3	97.9	95.0	26.1	24.6	PASS
7.25.18	378	4	North Berm/Inside Slope		BA-2	117.9	92.3	95.3	96.8	95.0	27.8	24.6	PASS
7.26.18	379	1	West Berm/Top		BA-5	116.1	87.7	89.1	98.4	95.0	32.4	28.8	PASS
7.26.18	380	1	West Berm/Overbuild		BA-5	118.3	90.2	89.1	101.2	95.0	31.2	28.8	PASS
7.26.18	381	`2	West Berm/Top		BA-2	120.0	92.4	95.3	97.0	95.0	29.8	24.6	PASS
7.26.18	382	`2	West Berm/Overbuild		BA-5	116.4	88.5	89.1	99.3	95.0	31.5	28.8	PASS
7.27.18	383	3	West Berm/Top		BA-5	118.3	91.4	89.1	102.5	95.0	29.5	28.8	PASS
7.27.18	384	3	West Berm/Overbuild		BA-5	117.2	90.3	89.1	101.3	95.0	29.8	28.8	PASS
7.27.18	385	4	West Berm/Top		BA-5	118.8	90.7	89.1	101.8	95.0	31.0	28.8	PASS
7.27.18	386	4	West Berm/Overbuild		BA-2	119.0	94.7	95.3	99.4	95.0	25.6	24.6	PASS
										95.0			
										95.0			
										95.0			
										95.0			

ASTN	1 D 29	22	-								25809	nterstate 3	30 South
Client N Project Site Loo Contrac	lame: Name: cation: ctor:	American I Turk Cell 2 Fulton, AR SFC	Electric Power	- - -			Technicia Reviewed Approved Test Loca	n: by: by: tion:	Matt Acree Tony Bardella Tony Bardella Cell 2	a a		(501) 8	347-9292
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'I. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
4.9.18	1P	1	South Berm/Pipe		BA-4	117.2	89.2	89.4	99.8	95.0	31.4	29.0	PASŞ
4.9.18	2P	1	South Berm/Pipe		BA-3	117.3	91.1	92.4	98.6	95.0	28.7	28.1	PASŞ
4.9.18	3P	2	South Berm/Pipe	ST-1	BA-4	119.3	90.7	89.4	101.5	95.0	31.5	29.0	PASŞ
4.9.18	4P	2	South Berm/Pipe		BA-4	118.3	91.4	89.4	102.2	95.0	29.5	29.0	PASŞ
4.10.18	5P	3	South Berm/Pipe		BA-4	118.0	88.7	89.4	99.2	95.0	33.0	29.0	PASŞ
4.10.18	6P	3	South Berm/Pipe	ST-2	BA-4	118.6	90.1	89.4	100.7	95.0	31.7	29.0	PASŞ
4.10.18	7P	4	South Berm/Pipe		BA-4	120.0	91.0	89.4	101.8	95.0	31.9	29.0	PASŞ
4.10.18	8P	4	South Berm/Pipe		BA-4	118.2	91.3	89.4	102.1	95.0	29.5	29.0	PASŞ
4.10.18	9P	5	South Berm/Pipe		BA-3	118.3	91.9	92.4	99.5	95.0	28.7	28.1	PASŞ
4.19.18	10P	5	South Berm/Pipe		BA-3	114.0	88.7	92.4	96.0	95.0	28.5	28.1	PASŞ
4.19.18	11P	6	South Berm/Pipe		BA-3	121.3	93.6	92.4	101.3	95.0	29.6	28.1	PASŞ
4.19.18	12P	6	South Berm/Pipe		BA-3	119.4	91.4	92.4	98.9	95.0	30.7	28.1	PASŞ
4.20.18	13P	7	South Berm/Pipe		BA-3	119.5	93.1	92.4	100.7	95.0	28.4	28.1	PASŞ
4.20.18	14P	7	South Berm/Pipe		BA-3	119.7	93.2	92.4	100.9	95.0	28.4	28.1	PASŞ



Sumr ASTN	nary o I D 29	of Field 22	Density Test Resu	lts						-16	25809	DCC Interstate 3 Bryant, A	30 South R 72022
Client N	lame:	American	Electric Power	-			Technicia	n:	Matt Acree			(501) 8	347-9292
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardell	a	-		
Site Lo	cation:	SEC.		-			Test Loca	by. tion	Cell 2	a	-		
Contrac				-			1001 2004		00112				
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
4.20.18	15P	8	South Berm/Pipe		BA-3	116.5	90.5	92.4	97.9	95.0	28.8	28.1	PASŞ
4.20.18	16P	8	South Berm/Pipe		BA-3	117.4	89.3	92.4	96.6	95.0	31.5	28.1	PASŞ
7.15.18	17P	1	North Berm/Manhole		BA-2	120.3	96.2	95.3	100.9	95.0	25.1	24.6	PASŞ
7.15.18	18P	1	North Berm/Manhole		BA-2	121.2	95.4	95.3	100.1	95.0	27.1	24.6	PASŞ
7.15.18	19P	2	North Berm/Manhole		BA-2	119.7	95.3	95.3	100.0	95.0	25.6	24.6	PASŞ
7.15.18	20P	2	North Berm/Manhole		BA-2	121.2	96.9	95.3	101.7	95.0	25.1	24.6	PASŞ
7.15.18	21P	3	North Berm/Manhole		BA-2	120.6	95.9	95.3	100.6	95.0	25.8	24.6	PASȘ
7.15.18	22P	3	North Berm/Manhole		BA-2	119.7	95.2	95.3	99.8	95.0	25.8	24.6	PASȘ
7.16.18	23P	4	North Berm/Manhole		BA-2	121.4	95.9	95.3	100.6	95.0	26.6	24.6	PASȘ
7.16.18	24P	4	North Berm/Manhole		BA-2	120.8	95.6	95.3	100.3	95.0	26.4	24.6	PASŞ
7.16.18	25P	5	North Berm/Manhole		BA-2	117.9	94.5	95.3	99.1	95.0	24.8	24.6	PASŞ
7.16.18	26P	5	North Berm/Manhole		BA-2	117.0	91.9	95.3	96.4	95.0	27.3	24.6	PASŞ
7.16.18	27P	6	North Berm/Manhole		BA-2	119.0	93.7	95.3	98.3	95.0	27.0	24.6	PASŞ
7.16.18	28P	6	North Berm/Manhole		BA-2	119.2	95.1	95.3	99.8	95.0	25.3	24.6	PASŞ

ASTN	/I D 29	922									25809	nterstate 3 Bryant A	30 South
Client N Project Site Lo Contrad	Name: Name: cation: ctor:	American E Turk Cell 2 Fulton, AR SFC	Electric Power				Technicia Reviewed Approved Test Loca	n: by: by: tion:	Matt Acree Tony Bardella Tony Bardella Cell 2	a		(501) 8	347-9292
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
7.17.18	29P	`7	North Berm/Manhole		BA-2	117.1	93.1	95.3	97.7	95.0	25.8	24.6	PASŞ
7.17.18	30P	7	North Berm/Manhole		BA-2	119.2	93.5	95.3	98.1	95.0	27.5	24.6	PASŞ
7.18.18	31P	1	North Berm/Manhole		BA-2	116.5	91.5	95.3	96.0	95.0	27.3	24.6	PASŞ
7.18.18	32P	1	North Berm/Manhole		BA-2	119.2	95.2	95.3	99.9	95.0	25.2	24.6	PASŞ
7.18.18	33P	1	North Berm/Manhole		BA-2	118.7	95.2	95.3	99.9	95.0	24.7	24.6	PASŞ
7.18.18	34P	1	North Berm/Manhole		BA-2	116.7	93.2	95.3	97.8	95.0	25.2	24.6	PASŞ
7.18.18	35P	2	North Berm/Manhole	P-68	BA-2	116.8	92.9	95.3	97.5	95.0	25.7	24.6	PASŞ
7.18.18	36P	2	North Berm/Manhole	P-69	BA-2	118.2	93.6	95.3	98.2	95.0	26.3	24.6	PASŞ
7.18.18	37P	8	North Berm/Manhole		BA-2	120.7	96.1	95.3	100.8	95.0	25.6	24.6	PASŞ
7.18.18	38P	8	North Berm/Manhole		BA-2	121.9	97.5	95.3	102.3	95.0	25.0	24.6	PASŞ
7.18.18	39P	8	North Berm/Manhole		BA-2	119.9	95.7	95.3	100.4	95.0	25.3	24.6	PASŞ
7.19.18	40P	9	North Berm/Manhole		BA-2	120	95.1	95.3	99.8	95.0	26.2	24.6	PASŞ
7.19.18	41P	9	North Berm/Manhole		BA-2	118.2	93.0	95.3	97.6	95.0	27.1	24.6	PASȘ
7.19.18	42P	9	North Berm/Manhole		BA-2	121.8	97.4	95.3	102.2	95.0	25.0	24.6	PASȘ



Sumi ASTN	mary o I D 29	of Field 22	Density Test Resu	lts			Technicia	n.	Matt Acree	-16	25809	DCC Interstate 3 Bryant, A (501) 8	0 South R 72022
Project	Name:	Turk Cell 2	2	-			Reviewed	by:	Tony Bardella	а		(301) (H / - / Z / Z
Site Lo	cation:	Fulton, AR		-			Approved	by:	Tony Bardella	а			
Contra	ctor:	SFC		-			Test Loca	tion:	Cell 2				
Test Date	Test No.	Lift or Elev.	Test Location	Shelby Tube Sample	Mat'l. No.	Wet Density, pcf	Dry Density, pcf	Lab Max. Dry Density, pcf	Percent Compaction %	Percent Compaction Required	Moisture Content	Optimum Moisture %	PASS or FAIL
7.19.18	43P	9	North Berm/Manhole		BA-2	121.3	96.7	95.3	101.5	95.0	25.4	24.6	PASŞ
7.19.18	44P	10	North Berm/Manhole		BA-2	116.2	91.6	95.3	96.1	95.0	26.9	24.6	PASŞ
7.19.18	45P	10	North Berm/Manhole		BA-2	117.9	94.4	95.3	99.1	95.0	24.9	24.6	PASŞ
7.19.18	46P	10	North Berm/Manhole		BA-2	122.0	96.5	95.3	101.3	95.0	26.4	24.6	PASŞ
7.19.18	47P	10	North Berm/Manhole		BA-13	123.9	99.0	103.3	95.9	95.0	25.1	22.6	PASŞ
7.19.18	48P	[`] 11	North Berm/Manhole		BA-13	126.5	102.2	103.3	98.9	95.0	23.8	22.6	PASŞ
7.19.18	49P	` 11	North Berm/Manhole		BA-13	128.8	103.3	103.3	100.0	95.0	24.7	22.6	PASŞ
7.19.18	50P	`11	North Berm/Manhole		BA-13	130.0	105.0	103.3	101.7	95.0	23.8	22.6	PASŞ
7.19.18	51P	`11	North Berm/Manhole		BA-13	130.5	105.2	103.3	101.8	95.0	24.1	22.6	PASŞ



APPENDIX E PERMEABILITY TEST RESULTS


A unit of American Electric Power

TABLE 3

SUMMARY OF PERMEABILITY TESTING DATA

SWEPCO - John W. Turk, Jr. Power Plant - Landfill Cell 2

Test No.	Lift No./ Layer	Test Results	
		к	Pass/
		(cm/sec)	Fail
ST-1	S. BERM	9.60E-09	Pass
ST-2	S. BERM	1.00E-08	Pass
P-1	LIFT 1	9.90E-09	Pass
P-2	LIFT 2	1.00E-08	Pass
P-3	LIFT 2	9.90E-09	Pass
P-4	LIFT 3	9.60E-09	Pass
P-5	LIFT 3	1.00E-08	Pass
P-6	LIFT 4	1.10E-08	Pass
P-7	LIFT 4	1.00E-08	Pass
P-8	LIFT 1	1.10E-08	Pass
P-9	LIFT 1	9.50E-09	Pass
P-10	LIFT 2	1.10E-08	Pass
P-11	LIFT 3	9.90E-09	Pass
P-12	LIFT 3	1.10E-08	Pass
P-13	LIFT 4	3.50E-08	Pass
P-14	LIFT 4	1.00E-08	Pass
P-15	LIFT 4	9.10E-09	Pass
P-16	LIFT 1	1.00E-08	Pass
P-17	LIFT 1	9.80E-09	Pass
P-18	LIFT 1	9.60E-09	Pass
P-19	LIFT 1	1.00E-08	Pass
P-20	LIFT 1	9.90E-09	Pass
P-21	LIFT 1	1.00E-08	Pass
P-22	LIFT 2	1.00E-08	Pass
P-23	LIFT 2	1.00E-08	Pass
P-24	LIFT 2	2.20E-08	Pass
P-25	LIFT 2	9.30E-09	Pass
P-26	LIFT 2	1.10E-08	Pass
P-27	LIFT 2	9.20E-09	Pass
P-28	LIFT 3	9.40E-09	Pass
P-29	LIFT 3	9.70E-09	Pass
P-30	LIFT 3	1.00E-08	Pass
P-31	LIFT 3	2.00E-08	Pass
P-32	LIFT 3	1.00E-08	Pass
P-33	LIFT 3	1.10E-08	Pass
P-34	LIFT 3	9.70E-09	Pass
P-35	LIFT 4	5.10E-08	Pass
P-36	LIFT 4	1.10E-08	Pass

		Test Results	
Test No.	Lift No./	к	Pass/
	Layer	(cm/sec)	Fail
P-37	LIFT 4	9.30E-09	Pass
P-38	LIFT 4	1.20E-08	Pass
P-39	LIFT 4	1.00E-08	Pass
P-40	LIFT 4	1.10E-08	Pass
P-41	LIFT 1	1.90E-08	Pass
P-42	LIFT 2	3.00E-08	Pass
P-43	LIFT 3	5.60E-08	Pass
P-44	LIFT 4	1.80E-08	Pass
P-45	LIFT 1	9.60E-09	Pass
P-46	LIFT 2	9.80E-09	Pass
P-47	LIFT 3	1.00E-08	Pass
P-48	LIFT 4	1.90E-08	Pass
P-49	LIFT 4	4.40E-08	Pass
P-50	LIFT 1	3.90E-08	Pass
P-51	LIFT 2	6.30E-08	Pass
P-52	LIFT 3	4.20E-08	Pass
P-53	LIFT 1	2.10E-08	Pass
P-54	LIFT 2	9.60E-09	Pass
P-55	LIFT 4	1.10E-08	Pass
P-56	LIFT 4	1.00E-08	Pass
P-57	LIFT 2	1.10E-08	Pass
P-58	LIFT 1	3.60E-08	Pass
P-59	LIFT 1	1.90E-08	Pass
P-60	LIFT 2	9.70E-09	Pass
P-61	LIFT 2	2.00E-08	Pass
P-62	LIFT 3	4.20E-08	Pass
P-63	LIFT 3	1.00E-08	Pass
P-64	LIFT 4	8.10E-08	Pass
P-65	LIFT 4	2.00E-08	Pass
P-66	LIFT 3	3.70E-08	Pass
P-67	LIFT 4	2.20E-08	Pass
P-68	N. BERM	2.10E-08	Pass
P-69	N. BERM	2.10E-08	Pass
P-70	LIFT 1	2.00E-08	Pass
P-71	LIFT 1	5.80E-08	Pass
P-72	LIFT 2	4.40E-08	Pass
P-73	LIFT 3	2.30E-08	Pass
P-74	LIFT 3	1.20E-08	Pass

























































































































































APPENDIX F GEOSYNTHETICS INSTALLER'S RESUMES



Corporate Office: 7943 Pecue Lane

Baton, Rouge, LA 70809 Phone: 225-291-2700 Fax: 225-291-2788 http://www.esiliners.com

Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV 1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Projects Superintendent

Mohammed Malimar

Mohammed has 26 years of experience in the supervision of the installation and seaming of a variety of synthetic liners and components in a wide range of industry applications. He has extensive experience in the on site supervision of safety, quality control, and all required documentation. In addition to his supervisory experience Mohammed also has actual hands on installation experience which far exceed all of the requirements to be qualified as a Leadman, Quality Control Technician and Master Seamer. As the on site ESI Superintendent he is also responsible for the direct, day to day, on site safety management of the crew.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geonets
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications



Corporate Office:

7943 Pecue Lane Baton, Rouge, LA 70809 Phone: 225-291-2700 Fax: 225-291-2788 http://www.esiliners.com

Regional Office:

Chapin, SC

Oconomowoc, WI

Technician - Installer

Abdulloh Nematjanov

Abdulloh has 10 months of experience in installation of a variety of geosynthetic liners and components. In addition to his deployment duties, he is in task training to set-up and operate equipment to include the following machines under direct supervision: Vacuum box, hand held hot air, and sewing. As part of his ongoing task training he is allowed to operate the wedge welder, extrusion welder, and air testing equipment under the direct supervision of a ESI Superintendent, Master Seamer, or Quality Control Technician. He is familiar with all currently utilized safety procedures.

Applications 🖂



Geosynthetics Installer



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Master Seamer

Adersys Fernandez Hernandez

Adersys has 15 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Adersys is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Com	ponents	Installed	\mathbf{X}
	-		

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geonets
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV 1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Master Seamer

Bounchan Vongkhamchanh

Bounchan has 13 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Bounchan is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV 1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Master Seamer

Carlos Vanegas

Carlos has 18 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Carlos is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geonets
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Master Seamer

Chanony Lach

Chanony has 17 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Chanony is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components	Installed	\boxtimes
-		

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV

1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Leadman / Foreman

John Somkhith

John has 35 years of experience in installation and seaming of a variety of synthetic liners and components. He is familiar with all currently utilized deployment techniques, installation and safety procedures. He has experience in on site crew management for the deployment, welding, and quality control testing for a variety of geosynthetics. He also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. John also meets all the requirements to be classified as a Geomembrane Master Seamer and Quality Control Technician. He is also qualified to assist in the training of Geomembrane Welders, Installers, and QC Technicians.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Corporate Office:

7943 Pecue Lane Baton, Rouge, LA 70809 Phone: 225-291-2700 Fax: 225-291-2788 http://www.esiliners.com

Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV 1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Quality Control Technician

Koun Lim

Koun has 18 years of experience in installation and seaming of a variety of synthetic liners and components. He is familiar with current field welding and installation testing and documentation requirements. He has experience and training for the execution of and documentation for required on site testing, QC and safety procedures. He is also qualified to assist in the training of geomembrane Welders, Installers, and QC Technicians.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV 1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Master Seamer

Lewis V. Nou

Lewis has 15 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Lewis is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geonets
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV 1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Master Seamer

Mauro Rene Turcios

Mauro has 22 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Mauro is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Regional Office:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Geomembrane Welder

Ounheune Viravongsa

Ounheune has 6 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Ounheune is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

<u>Componen</u>	ts Installed 🛛
 HDPE (Text) LLDPE (Text) Super Grip I XR-5 Polypropyler PVC Geotextiles Geonets Geocompos GCL Pipe Boots Batten Systee HDPE Sump 	ured and Smooth) tured and Smooth Drain Liner ne ite

Applications



Regional Office:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Geomembrane Welder

Phola Som

Phola has 10 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Phola is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed 🔀
 ☐ HDPE (Textured and Smooth) ☐ LLDPE (Textured and Smooth) ☐ Super Grip Drain Liner ☐ XR-5 ☐ Polypropylene ☐ PVC ☐ Geotextiles ☐ Geocomposite ☐ GCL ☐ Pipe Boots ☐ Batten Systems ☐ HDPE Sumps
1 1

Applications



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV 1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Geomembrane Welder

Phouangsone Thavikham

Phouangsone has 20 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Phouangsone is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed 🖂

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV 1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Master Seamer

Rogelio Cruz

Rogelio has 17 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Rogelio is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Master Seamer

Saron Sin

Saron has 17 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Saron is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geonets
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications



Regional Office:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Geomembrane Welder

So Samnang

So has 7 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. So is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed 🔀
 HDPE (Textured and Smooth LLDPE (Textured and Smooth Super Grip Drain Liner XR-5 Polypropylene PVC Geotextiles Geocomposite GCL Pipe Boots Batten Systems HDPE Sumps

Applications



Regional Offices:

Chapin, SC 508 D Old Lexington Highway Chapin, SC 29036 Phone: 803-816-4202 Fax: 803-816-4205

Reno, NV 1575 Delucchi Lane # 34 Reno, NV 89502 Phone: (775) 825-6797 Fax: (775) 825-6798

Master Seamer

Thongsoune Luangdethleuxa

Thongsoune has 15 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Thongsoune is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed

HDPE (Textured and Smooth)
 LLDPE (Textured and Smooth)
 Super Grip Drain Liner
 XR-5
 Polypropylene
 PVC
 Geotextiles
 Geonets
 Geocomposite
 GCL
 Pipe Boots
 Batten Systems
 HDPE Sumps

Applications 🖂



APPENDIX G GEOSYNTHETICS INVENTORY LISTING



Bryant, AR 72022 Phone: 501.847.9292

Fax: 501.847.9210

 Project No.:
 35177127

 Client Name:
 American Electric Power

 Contractor:
 SFC

 Project Name:
 Turk Cell 2

 Address:
 3711 HWY 355 S, Fulton AR

 Location:
 Cell 2

Manufacturer:AgruTransportation:FlatBedDate of Arrival:November-17Material Type:60T HDPECondition of Material:Good

		RESIN		MATERIAL	DIMENSIONS				
ROLL	ROLL	OR	LENGTH	WIDTH	SQUARE	THICK	QC/QA	CONF.	
COUNT	NUMBER	LOT NO.	(FEET)	(FEET)	FEET	(MILS)	CERT.	SAMPLE	REMARKS
1	G17F003552	HHK820510	540	23.0	12,420	60	Y	Y	
2	G17F003553	HHK820510	540	23.0	12,420	60	Y		
3	G17F003554	HHK820510	540	23.0	12,420	60	Y		
4	G17F003555	HHK820510	557	23.0	12,811	60	Y		
5	G17F003561	HHK820780	540	23.0	12,420	60	Y		
6	G17F003562	HHK820780	540	23.0	12,420	60	Y		
7	G17F003563	HHK820780	540	23.0	12,420	60	Y		
8	G17F003564	HHK820780	540	23.0	12,420	60	Y		
9	G17F003565	HHK820780	540	23.0	12,420	60	Y	Y	
10	G17F003566	HHK820780	540	23.0	12,420	60	Y		
11	G17F003567	HHK820780	540	23.0	12,420	60	Y		
12	G17F003568	HHK820780	540	23.0	12,420	60	Y		
13	G17F003569	HHK820780	540	23.0	12,420	60	Y		
14	G17F003570	HHK820780	540	23.0	12,420	60	Y		
15	G17F003571	HHK820780	540	23.0	12,420	60	Y		
16	G17F003572	HHK820780	540	23.0	12,420	60	Y		
17	G17F003573	HHK820780	540	23.0	12,420	60	Y	Y	
18	G17F003574	HHK820780	540	23.0	12,420	60	Y		
19	G17F003575	HHK820780	540	23.0	12,420	60	Y		
20	G17F003576	HHK820440	540	23.0	12,420	60	Y		
21	G17F003577	HHK820440	540	23.0	12,420	60	Y		
22	G17F003578	HHK820440	540	23.0	12,420	60	Y		
23	G17F003579	HHK820440	540	23.0	12,420	60	Y		
24	G17F003580	HHK820440	540	23.0	12,420	60	Y		
25	G17F003581	HHK820440	540	23.0	12,420	60	Y	Y	
26	G17F003582	HHK820440	540	23.0	12,420	60	Y		
27	G17F003583	HHK820440	540	23.0	12,420	60	Y		
28	G17F003584	HHK820440	540	23.0	12,420	60	Y		
29	G17F003585	HHK820440	540	23.0	12,420	60	Y		
30	G17F003586	HHK820440	540	23.0	12,420	60	Y		
31	G17F003587	HHK820440	540	23.0	12,420	60	Y		
32	G17F003588	HHK820440	540	23.0	12,420	60	Y		
33	G17F003589	HHK820440	540	23.0	12,420	60	Y	Y	
34	G17F003590	HHK820440	540	23.0	12,420	60	Y		
35	G17F003591	HHK820440	540	23.0	12,420	60	Y		
36	G17F003592	HHK820440	540	23.0	12,420	60	Y		



_

Project No.:35177127Client Name:American Electric PowerContractor:SFCProject Name:Turk Cell 2Address:3711 HWY 355 S, Fulton ARLocation:Cell 2

Manufacturer:	Agru
Transportation:	FlatBed
Date of Arrival:	November-17
Material Type:	60T HDPE
Condition of Material:	Good

								-	
		RESIN		MATERIAL	DIMENSIONS				
ROLL	ROLL	OR	LENGTH	WIDTH	SQUARE	тніск	QC/QA	CONF.	
COUNT	NUMBER	LOT NO.	(FEET)	(FEET)	FEET	(MILS)	CERT.	SAMPLE	REMARKS
37	G17F003593	HHK820440	540	23.0	12,420	60	Y		
38	G17F003594	HHK820440	540	23.0	12,420	60	Y		
39	G17F003595	HHK820440	540	23.0	12,420	60	Y		
40	G17F003596	HHK820440	540	23.0	12,420	60	Y		
41	G17F003597	HHK820440	540	23.0	12,420	60	Y		
42	G17F003598	HHK820440	540	23.0	12,420	60	Y		
43	G17F003599	HHK820440	540	23.0	12,420	60	Y		
44	G17F003600	HHK820790	540	23.0	12,420	60	Y		
45	G17F003601	HHK820790	540	23.0	12,420	60	Y		
46	G17F003602	HHK820790	540	23.0	12,420	60	Y		
47	G17F003603	HHK820790	540	23.0	12,420	60	Y		
48	G17F003604	HHK820790	540	23.0	12,420	60	Y		
49	G17F003605	HHK820790	540	23.0	12,420	60	Y	Y	
50	G17F003606	HHK820790	540	23.0	12,420	60	Y		
51	G17F003607	HHK820790	540	23.0	12,420	60	Y		
52	G17F003608	HHK820790	540	23.0	12,420	60	Y		
53	G17F003609	HHK820790	540	23.0	12,420	60	Y		
54	G17F003610	HHK820790	540	23.0	12,420	60	Y		
55	G17F003611	HHK820790	540	23.0	12,420	60	Y		
56	G17F003612	HHK820790	540	23.0	12,420	60	Y		
57	G17F003613	HHK820790	540	23.0	12,420	60	Y	Y	
58	G17F003614	HHK820790	540	23.0	12,420	60	Y		
59	G17F003615	HHK820790	540	23.0	12,420	60	Y		
60	G17F003616	HHK820790	540	23.0	12,420	60	Y		
61	G17F003617	HHK820790	540	23.0	12,420	60	Y		
62	G17F003618	HHK820790	540	23.0	12,420	60	Y		

TOTAL ACCUMULATED: 770,431 ft²

Material Type Legend:

40S = 40 Mil Smooth HDPE Geomembrane 40T = 40 Mil Textured HDPE Geomembrane

60S = 60 Mil Smooth HDPE Geomembrane

60T = 60 Mil Textured HDPE Geomembrane

DSG = Double Sided Geocomposite SSG = Single Sided Geocomposite 6oz Geo = 6 ounce Geotextile 12oz Geo = 12 ounce Geotextile

Project No.: 35177127



25809 Interstate 30 South Bryant, AR 72022

Phone: 501.847.9292

Client Name: American Electric Power Manufacturer: SKAPS Fax: 501.847.9210 Contractor: SFC Transportation: FlatBed Project Name: Turk Cell 2 Date of Arrival: November-17 Address: 3711 HWY 355 S, Fulton AR Material Type: DSG Location: Cell 2 Condition of Material: Good MATERIAL DIMENSIONS RESIN ROLL ROLL OR LENGTH WIDTH SQUARE THICK QC/QA CONF. COUNT CERT. NUMBER LOT NO. (FEET) (FEET) FEET (MILS) SAMPLE REMARKS 78291010001 XOMX 710608 14.5 3,335 222 Υ Υ 1 230 78291010002 2 XOMX 710608 230 14.5 3,335 78291010003 XOMX 710608 3 230 14.5 3,335 4 78291010004 XOMX 710608 230 14.5 3,335 78291010005 5 XOMX 710608 230 14.5 3,335 6 78291010006 XOMX 710608 230 14.5 3.335 7 78291010007 XOMX 710608 230 14.5 3,335 78291010008 XOMX 710608 230 8 14.5 3,335 78291010009 XOMX 710608 230 14.5 3,335 9 10 78291010010 XOMX 710608 230 14.5 3,335 78291010011 11 XOMX 710608 230 14.5 3,335 78291010012 XOMX 710608 14.5 12 230 3.335 13 78291010013 XOMX 710608 230 14.5 3,335 14 78291010014 XOMX 710608 230 14.5 3,335 78291010015 15 XOMX 710608 230 14.5 3.335 220 Υ 16 78291010016 XOMX 710608 230 14.5 3,335 78291010017 XOMX 710608 230 17 14.5 3,335 XOMX 710608 18 78291010018 230 14.5 3,335 19 78291010019 XOMX 710608 230 3,335 14.5 20 78291010020 XOMX 710608 230 14.5 3,335 78291010021 XOMX 710608 21 230 14.5 3.335 78291010022 22 XOMX 710608 230 14.5 3,335 23 78291010023 XOMX 710608 230 14.5 3,335 78291010024 24 XOMX 710608 230 14.5 3.335 25 78291010025 XOMX 710608 230 14.5 3,335 78291010026 XOMX 710608 230 14.5 26 3,335 XOMX 710608 27 78291010027 230 14.5 3,335 28 78291010028 XOMX 710608 230 14.5 3,335 78291010029 XOMX 710608 29 230 14.5 3,335 78291010030 XOMX 710608 30 230 14.5 3.335 225 Υ Υ 78291010031 31 XOMX 710608 230 14.5 3,335 32 78291010032 XOMX 710608 230 14.5 3,335 78291010033 33 XOMX 710608 230 14.5 3.335 78291010034 34 XOMX 710608 230 14.5 3,335 35 78291010035 XOMX 710608 230 14.5 3,335 78291010036 XOMX 710608 36 230 14.5 3,335



Bryant, AR 72022

Proj	ect No.: 35177	127						Ph	one: 501.847.9292
Clien	t Name: Americ	can Electric Pov	ver		Manufacturer:	SKAPS			Fax: 501.847.9210
Cor	tractor: SFC				ansportation:	FlatBed	or 17		
A	ddress: 3711 F	/eii ∠ IWY 355 S_Ful	ton AR		Material Type:	DSG		-	
L	ocation: Cell 2			Conditio	on of Material:	Good		-	
								-	
		RESIN		MATERIAL	DIMENSIONS				
ROLL					SQUARE		QC/QA	CONF.	DEMADKS
27	78291010037		220	14.5	2 225	(111123)	CENT.	SAMFLE	REMARKS
37	78291010037	XOMX 710608	230	14.5	3,335				
30	78291010030	XOMX 710608	230	14.5	3,335				
39	78291010039	XOMX 710608	230	14.5	3,335				
40	78291010040	XOMX 710608	230	14.5	3,335				
12	78291010047	XOMX 710608	230	14.5	3 335				
42 //3	78291010043	XOMX 710608	230	14.5	3 335				
43	78291010043	XOMX 710608	230	14.5	3 335				
44	78291010044	XOMX 710608	230	14.5	3,335	229	V		
45	78291010045	XOMX 710608	230	14.5	3,335	220	1		
40	78291010040	XOMX 710608	230	14.5	3,335				
47	78291010047	XOMX 710608	230	14.0	3,335				
40	78291010040	XOMX 710608	230	14.0	3,335				
49 50	78291010049	XOMX 710608	230	14.0	3,335				
50	78291010050	XOMX 710608	230	14.5	3,335				
51	78291010051	XOMX 710608	230	14.5	3,335				
52	78291010052	XOMX 710608	230	14.5	3,335				
53	78291010053	XOMX 710608	230	14.5	3,335				
54	78291010054	XOMX 710608	230	14.5	3,335				
55	78291010055	XOMX 710608	230	14.5	3,335				
56	76291010056	XOMX 710608	200	14.5	2,900				
57	78291010057	XOMX 710608	230	14.5	3,335				
58	78291010058	XOMX /10608	230	14.5	3,335				
59	78291010059	XOMX 710608	325	14.5	4,713				
60	78291010060	XOMX 710608	190	14.5	2,755	226	Y	Y	
61	78291010061	XOMX 710608	150	14.5	2,175				
62	78291010062	XOMX 710608	230	14.5	3,335				
63	78291010063	XOMX 710608	225	14.5	3,263				
64	78291010064	XOMX 710608	230	14.5	3,335				
65	78291010065	XOMX 710608	230	14.5	3,335				
66	78291010066	XOMX 710608	230	14.5	3,335	 			
67	78291010067	XOMX 710608	230	14.5	3,335				
68	78291010068	XOMX 710608	230	14.5	3,335				
69	78291010069	XOMX 710608	230	14.5	3,335				
70	78291010070	XOMX 710608	230	14.5	3,335				
71	78291010071	XOMX 710608	230	14.5	3,335				
72	78291010072	XOMX 710608	230	14.5	3,335				



Bryant, AR 72022

Proj	ject No.: 35177	127						Ph	one: 501.847.9292
Client Name: American Electric Power				- т.	Manufacturer:		•	Fax: 501.847.9210	
Drojec	tractor: SFC	2 الم		וו ח	ansportation:	Novemb	or-17	•	
A	ddress: 3711 F	IWY 355 S, Ful	ton AR		Material Type:	DSG			
L	ocation: Cell 2	,		Conditio	on of Material:	Good			
		5500			DIMENSIONS				
BOLL	BOLL	RESIN				тиск	00/04	CONE	
		LOT NO.	(FEET)	(FEET)	FEET	(MILS)	CERT.	SAMPLE	REMARKS
73	78291010073	XOMX 710608	230	14.5	3.335	(0)		<u> </u>	
74	78291010074	XOMX 710608	230	14.5	3,335				
75	78291010075	XOMX 710608	230	14.5	3,335	224	Y		
76	78291010076	XOMX 710608	230	14.5	3,335				
77	78291010077	XOMX 710608	230	14.5	3,335				
78	78291010078	XOMX 710608	230	14.5	3,335				
79	78291010079	XOMX 710608	230	14.5	3,335				
80	78291010080	XOMX 710608	230	14.5	3,335				
81	78291010081	XOMX 710608	230	14.5	3,335				
82	78291010082	XOMX 710608	230	14.5	3,335				
83	78291010083	XOMX 710608	230	14.5	3,335				
84	78291010084	XOMX 710608	230	14.5	3,335				
85	78291010085	XOMX 710608	230	14.5	3,335				
86	78291010086	XOMX 710608	230	14.5	3,335				
87	78291010087	XOMX 710608	230	14.5	3,335				
88	78291010088	XOMX 710608	230	14.5	3,335				
89	78291010089	XOMX 710608	230	14.5	3,335				
90	78291010090	XOMX 710608	230	14.5	3,335	227	Y	Y	
91	78291010091	XOMX 710608	230	14.5	3,335				
92	78291010092	XOMX 710608	230	14.5	3,335				
93	78291010093	XOMX 710608	230	14.5	3,335				
94	78291010094	XOMX 710608	230	14.5	3,335				
95	78291010095	XOMX 710608	230	14.5	3,335				
96	78291010096	XOMX 710608	230	14.5	3,335				
97	78291010097	XOMX 710608	230	14.5	3,335				
98	78291010098	XOMX 710608	230	14.5	3,335				
99	78291010099	XOMX 710608	230	14.5	3,335				
100	78291010100	XOMX 710608	230	14.5	3,335				
101	78291010101	XOMX 710608	230	14.5	3,335				
102	78291010102	XOMX 710608	230	14.5	3,335				
103	78291010103	XOMX 710608	230	14.5	3,335	 			
104	78291010104	XOMX 710608	230	14.5	3,335				
105	78291010105	XOMX 710608	230	14.5	3,335	218	Y		
106	78291010106	XOMX 710608	230	14.5	3,335				
107	78291010107	XOMX 710608	230	14.5	3,335	 			
108	78291010108	XOMX 710608	230	14.5	3,335				



Bryant, AR 72022

Proj	ect No.: 35177	127						Ph	one: 501.847.9292
Clien	t Name: Americ	an Electric Pov	ver		Manufacturer:	SKAPS		-	Fax: 501.847.9210
Cor	tractor: SFC				ransportation:	FlatBed	or 17	-	
A	ddress: 3711 F	.eii ∠ IWY 355 S. Ful	ton AR		Material Type:	DSG		-	
Le	ocation: Cell 2	,		Conditio	on of Material:	Good		-	
		DEONI			DIMENSIONS				
POLI	POLI				SOLIADE	тыск	00/04	CONE	
COUNT	NUMBER	LOT NO.	(FEET)	(FEET)	FEET	(MILS)	CERT.	SAMPLE	REMARKS
109	78291010109	XOMX 710608	230	14.5	3,335				
110	78291010110	XOMX 710608	230	14.5	3,335				
111	78291010111	XOMX 710608	170	14.5	2,465				
112	78291010112	XOMX 710608	230	14.5	3,335				
113	78291010113	XOMX 710608	230	14.5	3,335				
114	78291010114	XOMX 710608	230	14.5	3,335				
115	78291010115	XOMX 710608	230	14.5	3,335				
116	78291010116	XOMX 710608	230	14.5	3,335				
117	78291010117	XOMX 710608	230	14.5	3,335				
118	78291010118	XOMX 710608	230	14.5	3,335				
119	78291010119	XOMX 710608	230	14.5	3,335				
120	78291010120	XOMX 710608	230	14.5	3,335	221	Y	Y	
121	78291010121	XOMX 710608	230	14.5	3,335				
122	78291010122	XOMX 710608	230	14.5	3,335				
123	78291010123	XOMX 710608	230	14.5	3,335				
124	78291010124	XOMX 710608	230	14.5	3,335				
125	78291010125	XOMX 710608	230	14.5	3,335				
126	78291010126	XOMX 710608	230	14.5	3,335				
127	78291010127	XOMX 710608	230	14.5	3,335				
128	78291010128	XOMX 710608	230	14.5	3,335				
129	78291010129	XOMX 710608	200	14.5	2,900				
130	78291010130	XOMX 710608	230	14.5	3,335				
131	78291010131	XOMX 710608	230	14.5	3,335				
132	78291010132	XOMX 710608	230	14.5	3,335				
133	78291010133	XOMX 710608	230	14.5	3,335				
134	78291010134	XOMX 710608	230	14.5	3,335				
135	78291010135	XOMX 710608	230	14.5	3,335	223	Y		
136	78291010136	XOMX 710608	230	14.5	3,335				
137	78291010137	XOMX 710608	230	14.5	3,335				
138	78291010138	XOMX /10608	230	14.5	3,335				
139	78291010139	XOMX 710608	230	14.5	3,335				
140	78291010140	XOMX 710608	230	14.5	3,335				
141	78291010141	XUMX /10608	230	14.5	3,335				
142	70291010142	XUIVIX /10608	230	14.5	3,335				
143	70291010143	AUIVIX /10608	230	14.5	3,335				
144	10291010144	VOIVIX / 10608	230	14.5	3,335				



Bryant, AR 72022

Phone: 501 847 9292

Proj	ject No.: 35177	127						Ph	one: 501.847.9292
Client Name: American Electric Power				Manufacturer:	SKAPS		-	Fax: 501.847.9210	
Cor	tractor: <u>SFC</u>				ansportation:	FlatBed	47	.	
Projec	ddress: 3711 F	/eli ∠ IWY 355 S. Ful	ton AR	. U	ate of Arrival: Material Type:	DSG	er-17	-	
Ĺ	ocation: Cell 2			Conditio	on of Material:	Good		-	
								• •	
		RESIN		MATERIAL	DIMENSIONS	I			
			LENGTH	WIDTH (FEET)	SQUARE		QC/QA CERT	CONF. SAMPLE	REMARKS
145	78291010145	XOMX 710608	230	14.5	3 335	(141120)	OLIVI.		KEMAKKO
145	78291010146	XOMX 710608	230	14.5	3,335				
140	78291010140	XOMX 710608	230	14.5	3,335				
140	78291010148	XOMX 710608	230	14.5	3 335				
140	78291010149	XOMX 710608	230	14.5	3 335				
150	78291010150	XOMX 710608	230	14.5	3 335	228	V	V	
150	78291010151	XOMX 710608	230	14.5	3 335	220	-	I	
151	78291010151	XOMX 710608	230	14.5	3,335				
152	78291010152	XOMX 710608	230	14.5	3,335				
153	78291010154	XOMX 710608	230	14.5	3,335				
154	78291010155	XOMX 710608	230	14.5	3,335				
155	78291010156	XOMX 710608	230	14.5	3,335				
150	78291010157	XOMX 710608	230	14.5	3 335				
157	78291010158	XOMX 710608	230	14.5	3 335				
150	78291010159	XOMX 710608	230	14.5	3 335				
155	78291010160	XOMX 710608	230	14.5	3 335				
161	78291010161	XOMX 710608	230	14.5	3 335				
162	78291010162	XOMX 710608	230	14.5	3 335				
163	78291010163	XOMX 710608	230	14.5	3,335				
164	78291010164	XOMX 710608	230	14.5	3 335				
165	78291010165	XOMX 710608	230	14.5	3,335	219	Y		
166	78291010166	XOMX 710608	230	14.5	3.335				
167	78291010167	XOMX 710608	230	14.5	3.335				
168	78291010168	XOMX 710608	130	14.5	1,885				
169	78291010169	XOMX 710608	230	14.5	3,335				
170	78291010170	XOMX 710608	230	14.5	3,335				
171	78291010171	XOMX 710608	230	14.5	3,335				
172	78291010172	XOMX 710608	230	14.5	3,335				
173	78291010173	XOMX 710608	230	14.5	3,335				
174	78291010174	XOMX 710608	230	14.5	3,335	1			
175	78291010175	XOMX 710608	230	14.5	3,335	1			
176	78291010176	XOMX 710608	230	14.5	3,335	1			
177	78291010177	XOMX 710608	230	14.5	3,335	1			
178	78291010178	XOMX 710608	230	14.5	3,335	1			
179	78291010179	XOMX 710608	230	14.5	3,335	1			
180	78291010180	XOMX 710608	230	14.5	3,335	229	Y	Y	

216

78291010216 XOMX 710608

230

14.5

3,335



Bryant, AR 72022

Project No.: 35177127						Phone: 501.847.9292			
Clien	t Name: Americ	can Electric Pov	·		-	Fax: 501.847.9210			
Drojec	t Name: Turk C	2 الم	וו ח	ansportation:	-				
A	ddress: 3711 F	WY 355 S. Ful		Material Type:	-				
Le	ocation: Cell 2	,	Conditio	on of Material:	Good		-		
								-	
		RESIN		MATERIAL	DIMENSIONS				
ROLL	ROLL	OR			SQUARE	THICK	QC/QA	CONF.	DEMARKO
COUNT	NUMBER	LOT NO.	(FEEI)	(FEEI)	FEEI	(MILS)	GERT.	SAMPLE	REMARKS
181	78291010181	XOMX 710608	230	14.5	3,335				
182	78291010182	XOMX 710608	230	14.5	3,335				
183	78291010183	XOMX /10608	230	14.5	3,335				
184	78291010184	XOMX 710608	230	14.5	3,335				
185	78291010185	XOMX 710608	230	14.5	3,335				
186	78291010186	XOMX 710608	230	14.5	3,335				
187	78291010187	XOMX 710608	230	14.5	3,335				
188	78291010188	XOMX 710608	230	14.5	3,335				
189	78291010189	XOMX 710608	230	14.5	3,335				
190	78291010190	XOMX 710608	230	14.5	3,335				
191	78291010191	XOMX 710608	230	14.5	3,335				
192	78291010192	XOMX 710608	230	14.5	3,335				
193	78291010193	XOMX 710608	230	14.5	3,335				
194	78291010194	XOMX 710608	230	14.5	3,335				
195	78291010195	XOMX 710608	230	14.5	3,335	220	Y		
196	78291010196	XOMX 710608	230	14.5	3,335				
197	78291010197	XOMX 710608	230	14.5	3,335				
198	78291010198	XOMX 710608	230	14.5	3,335				
199	78291010199	XOMX 710608	230	14.5	3,335				
200	78291010200	XOMX 710608	230	14.5	3,335				
201	78291010201	XOMX 710608	230	14.5	3,335				
202	78291010202	XOMX 710608	230	14.5	3,335				
203	78291010203	XOMX 710608	230	14.5	3,335				
204	78291010204	XOMX 710608	230	14.5	3,335				
205	78291010205	XOMX 710608	230	14.5	3,335				
206	78291010206	XOMX 710608	230	14.5	3,335				
207	78291010207	XOMX 710608	230	14.5	3,335				
208	78291010208	XOMX 710608	230	14.5	3,335				
209	78291010209	XOMX 710608	230	14.5	3,335				
210	78291010210	XOMX 710608	230	14.5	3,335	222	Y	Y	
211	78291010211	XOMX 710608	230	14.5	3,335				
212	78291010212	XOMX 710608	230	14.5	3,335				
213	78291010213	XOMX 710608	230	14.5	3,335				
214	78291010214	XOMX 710608	230	14.5	3,335				
215	78291010215	XOMX 710608	230	14.5	3,335				
				-	,	1		1	

errac 25809 Interstate 30 South Bryant, AR 72022

Project No.: 35177127 Client Name: American Electric Power Contractor: SFC Project Name: Turk Cell 2 Address: 3711 HWY 355 S, Fulton AR				l Tr D	Manufacturer: ansportation: ate of Arrival: Material Type:	Phone: 501.847.9292 Fax: 501.847.9210			
Lo	ocation: Cell 2			Conditio	on of Material:				
		RESIN		MATERIAL	DIMENSIONS				
			LENGTH	WIDTH (FEET)	SQUARE	THICK	QC/QA CERT	CONF. Sampi f	REMARKS
217	78291010217	XOMX 710608	230	14.5	3.335	(11120)	OEI(T)		ILE MARINO
218	78291010218	XOMX 710608	230	14.5	3,335				
219	78291010219	XOMX 710608	230	14.5	3,335				
220	78291010220	XOMX 710608	230	14.5	3,335				
221	78291010221	XOMX 710608	230	14.5	3,335				
222	78291010222	XOMX 710608	230	14.5	3,335				
223	78291010223	XOMX 710608	230	14.5	3,335				
224	78291010224	XOMX 710608	230	14.5	3,335				
225	78291010225	XOMX 710608	230	14.5	3,335	225	Y		
226	78291010226	XOMX 710608	230	14.5	3,335				
227	78291010227	XOMX 710608	230	14.5	3,335				
228	78291010228	XOMX 710608	230	14.5	3,335				
229	78291010229	XOMX 710608	230	14.5	3,335				
230	78291010230	XOMX 710608	250	14.5	3,625				
231	78291010231	XOMX 710608	230	14.5	3,335				
232	78291010232	XOMX 710608	230	14.5	3,335				
Material Type Legend: 770,385 ft² 40S = 40 Mil Smooth HDPE Geomembrane DSG = Double Sided Geocomposite 40T = 40 Mil Textured HDPE Geomembrane SSG = Single Sided Geocomposite 60S = 60 Mil Smooth HDPE Geomembrane 60Z Geo = 6 ounce Geotextile 60T = 60 Mil Textured HDPE Geomembrane 120Z Geo = 12 ounce Geotextile									



APPENDIX H GEOMEMBRANE MANUFACTURER'S QC CERTIFICATES



Cust: Environmental Specialties

Doc#: 38383

770,040 ft²

PO#: 25802 John W. Turk Power Plant Dest: Fulton, AR

ł

62 rolls 60HD micro (540)

		English								
roll #	width	length	area		check weld rod o	ty (if or	dered)	wgt		resin lot #
			Goomor	brano	Conformance 1/1	00 000 4	of min 1	IDS.	will be fine	
		01 0 2 04	Geomen		Comormance 1/10	00,000 3	51, 11111 17		will be lille	
G17F003552	23	540	12,420		60HD micro	62tot	1	4084	sas	HHK820510
G17F003553	23	540	12,420		60HD micro	62tot	2	3694		HHK820510
G17F003554	23	540	12,420		60HD micro	62tot	3	3684		HHK820510
G17F003555	23	557	12,811		60HD micro	62tot	4	3746		HHK820510
G17F003561	23	540	12,420		60HD micro	62tot	5	3632		HHK820510
G17F003562	23	540 540	12,420		60HD micro	62tot	0 7	3626		HHK820780
G17F003564	23	540	12,420		60HD micro	62tot	8	3634		HHK820780
G17F003565	23	540	12,420		60HD micro	62tot	9	3630	sqs	HHK820780
G17F003566	23	540	12,420		60HD micro	62tot	10	3626		HHK820780
G17F003567	23	540	12,420		60HD micro	62tot	11	3624		HHK820780
G17F003568	23	540	12,420		60HD micro	62tot	12	3522		HHK820780
G17F003569	23	540 540	12,420		60HD micro	62tot	13	3640		HHK820780
G17F003570	23	540 540	12,420		60HD micro	62tot	15	3636		HHK820780
G17F003572	23	540	12,420		60HD micro	62tot	16	3637		HHK820780
G17F003573	23	540	12,420		60HD micro	62tot	17	3640	sqs	HHK820780
G17F003574	23	540	12,420		60HD micro	62tot	18	3656		HHK820780
G17F003575	23	540	12,420		60HD micro	62tot	19	3666		HHK820780
G17F003576	23	540	12,420		60HD micro	62tot	20	3670		HHK820440
G17F003577	23	540 540	12,420		60HD micro	62tot	21	3678		
G17F003578	23	540 540	12,420		60HD micro	62tot	23	3668		HHK820440
G17F003580	23	540	12,420		60HD micro	62tot	24	3660		HHK820440
G17F003581	23	540	12,420		60HD micro	62tot	25	3643	sqs	HHK820440
G17F003582	23	540	12,420		60HD micro	62tot	26	3646		HHK820440
G17F003583	23	540	12,420		60HD micro	62tot	27	3646		HHK820440
G17F003584	23	540	12,420		60HD micro	62tot	28	3664		HHK820440
G17F003585	23	540 540	12,420		60HD micro	62tot	29 30	3656		
G17F003587	23	540	12,420		60HD micro	62tot	31	3662		HHK820440
G17F003588	23	540	12,420		60HD micro	62tot	32	3668		HHK820440
G17F003589	23	540	12,420		60HD micro	62tot	33	3666	sqs	HHK820440
G17F003590	23	540	12,420		60HD micro	62tot	34	3680		HHK820440
G17F003591	23	540	12,420		60HD micro	62tot	35	3703		HHK820440
G17F003592	23	540 540	12,420		60HD micro	62tot	30 37	3730		
G17F003593	23	540	12,420		60HD micro	62tot	38	3634		HHK820440
G17F003595	23	540	12,420		60HD micro	62tot	39	3738		HHK820440
G17F003596	23	540	12,420		60HD micro	62tot	40	3732		HHK820440
G17F003597	23	540	12,420		60HD micro	62tot	41	3714	sqs	HHK820440
G17F003598	23	540	12,420		60HD micro	62tot	42	3730		HHK820440
G17F003599	23	540	12,420		60HD micro	62tot	43	3718		HHK820440
G17F003600	23	540 540	12,420		60HD micro	62tot	44	3710		HHK820790
G17F003602	23	540	12,420		60HD micro	62tot	46	3718		HHK820790
G17F003603	23	540	12,420		60HD micro	62tot	47	3708		HHK820790
G17F003604	23	540	12,420		60HD micro	62tot	48	3708		HHK820790
G17F003605	23	540	12,420		60HD micro	62tot	49	3698	sqs	HHK820790
G17F003606	23	540	12,420		60HD micro	62tot	50 54	3713		HHK820790
G17F003607	23	540 540	12,420		60HD micro	62tot	52	3708		HHK820790
G17F003609	23	540	12.420		60HD micro	62tot	53	3692		HHK820790
G17F003610	23	540	12,420		60HD micro	62tot	54	3688		HHK820790
G17F003611	23	540	12,420		60HD micro	62tot	55	3692		HHK820790
G17F003612	23	540	12,420		60HD micro	62tot	56	3702		HHK820790
G17F003613	23	540	12,420		60HD micro	62tot	57	3698	*1FT	HHK820790
G17F003614	23	540	12,420		60HD micro	62tot	58 59	3/00		HHK820790
G17F003616	23 23	540	12,420 12,420		60HD micro	62tot	60	3708		HHK820790
G17F003617	23	540	12,420		60HD micro	62tot	61	3708		HHK820790
G17F003618	23	540	12,420		60HD micro	62tot	62	3704		HHK820790

770,431 total for order



quality certificate

ROLL #: G17F003552	LOT #:	r #: HHK820510		LINER TYPE:				60) HD	MICROS	MICROSPIKE	
		METRIC	EN	GLISH				MET	RIC	ENGLI	SH	
Thickness	MIN:	1.5 mm	e	5 0 mil		Th	ickness:	1.52	2 mm	60	mil	
ASTM D5994	MAX:	1.7 mm	e	55 mil			Length:	164.594	l m	540	feet	
(Modified)	AVE:	1.6 mm	6	5 3 mil			Width:	7.01	. m	23	feet	
OIT(Standard) ASTM D 3895										171 mir	nutes	
Asperity		A	Тор					.66	5 mm	2	6 mil	
ASTM D7466		Average	Bottom					.71	l mm	2	8 mil	
Specific Gravity ASTM D792		Average Density								.94	4 g/cc	
MFI ASTM D1238 COND. E										22		
Grade: K307		Melt Flow	Melt Flow Index 190C/2160 g - g/10 min						•			
Carbon Black Content ASTM D	Range								2.	6 %		
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Category 1		
				MD	33	N/mm	186	ррі	2919	psi		
Tensile Strength ASTM D6693			Average Strength @		TD	30	N/mm	171	ррі	2716	psi	
(2 inches / minute)				MD	37	N/mm	212	ррі	3341	psi		
		Average Strength @ Break			TD	40	N/mm	226	ррі	3588	psi	
Tensile Flongation					MD					14	I %	
ASTM D6693		Average El	ongation (@ Yield	TD					18	3 %	
(2 inches / minute)										FOG) 0/	
$LO = 1.3^{\circ}$ Yield $LO = 2.0^{\circ}$ Break		Average El	ongation (@Breal						590) 70 - 0/	
					ID					455) %	
Tear Resistance ASTM D1004 (Modified)		Average Tear Resistance		MD			329.2 N	I	74	lbs.		
					TD	329.2			l	74	lbs.	
Puncture Resistance ASTM D4833 (Modified)		Average Peak Load				627.2 N		141	lbs.			
Notched Constant Tensile Load		Pass/Fail @ 30%					500 Hr	s.	ONGC	DING		

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/2/2017

OA#: 38383

Signature:

Maria Coffey Quality Control Department


ROLL #: G17F003553	LOT #:	#: HHK820510			ER TYF	PE:			6	0 H D	MICROS	PIKE
		METRIC	EN	NGLIS	5H				MET	RIC	ENGLI	SH
Thickness	MIN:	1.5 mm		58	mil		Th	ickness:	1.5	2 mm	6 0	mil
ASTM D5994	MAX:	1.5 mm		60	mil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		60	mil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											171 mir	nutes
Asperity		A	Тор						.6	6 mm	1 2 (6 mil
ASTM D7466		Average	Bottom						.7	4 mm	n 2 9	9 mil
Specific Gravity ASTM D792		Average De	ensity								.94	4 g/cc
MFI ASTM D1238 COND. E					1.60	. 14.0						-
Grade: K307		Melt Flow	Index 19	UC/2	160 g	- g/10	min				.2	3
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTN	I D5596	Category									10 in Catego	ry 1
		A		N V: - I	-1	MD	26	N/mm	146	5 ppi	2426	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riei	a	TD	29	N/mm	165	5 ppi	2724	psi
(2 inches / minute)		A			. 1	MD	34	N/mm	193	3 ppi	3214	psi
		Average St	rengtn @	Brea	ак	TD	32	N/mm	182	2 ppi	2998	psi
Tensile Elongation						MD					18	\$ %
ASTM D6693		Average El	ongation	@ Yi	ield	TD					15	%
(2 inches / minute)						MD					488	. %
Lo = 2.0" Break		Average El	ongation	@Br	eak						562	· %
									220.2		502	
Tear Resistance		Average Te	ear Resist	ance	!	MD			329.2	N	74	lbs.
ASTM D1004 (Modified)						TD			329.2	N	74	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						627.2	N	141	lbs.
Notched Constant Tensile Load ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/2/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003554	LOT #:	HHK820	LINE	ER TYP	E:			60) HD	MICROS	PIKE	
		METRIC	Eľ	NGLIS	н				MET	RIC	ENGLI	SH
Thickness	MIN:	1.5 mm		59 r	nil		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 r	mil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		60 r	nil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											171 mir	nutes
Asperity		A	Тор						.6	6 mm	2	6 mil
ASTM D7466		Average	Bottom	ı					.7	4 mm	2	9 mil
Specific Gravity ASTM D792		Average De	ensity								.94	4 g/cc
MFI ASTM D1238 COND. E			1.1. 10	00/04		. 14.0						-
Grade: K307		Melt Flow	Index 19	UC/21	160 g -	g/10	min				.2	3
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTM	I D5596	Category									10 in Catego	ry 1
		A			-1	MD	26	N/mm	146	і ррі	2426	psi
Tensile Strength ASTM D6693		Average St	rengtn @	y rieit	J	TD	29	N/mm	165	ррі	2724	psi
(2 inches / minute)		A			1	MD	34	N/mm	193	ppi	3214	psi
		Average St	rengtn @	v Brea	ак	TD	32	N/mm	182	ppi	2998	psi
Tensile Elongation						MD					18	\$ %
ASTM D6693		Average El	ongation	@ Yi	eld	TD					15	%
(2 inches / minute)						МП					199	2 0/
Lo = 2.0" Break		Average El	ongation	@Bre	eak	חזיו חד						0/
											502	. 70
Tear Resistance		Average Te	ear Resist	tance		MD			329.2 ľ	N	74	lbs.
ASTM D1004 (Modified)						TD			329.2	N	74	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						627.2 I	N	141	lbs.
Notched Constant Tensile Load	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/2/2017

OA#: **38383**

Signature:



ROLL #: G17F003555	LOT #:	#: HHK820510			ER TYP	E:			6	0 H C	MICROS	PIKE
		METRIC	EN	NGLIS	ы				MET	RIC	ENGLI	SH
Thickness	MIN:	1.5 mm		58 r	mil		Th	ickness:	1.5	2 mm	ו 60	mil
ASTM D5994	MAX:	1.6 mm		62 1	mil			Length:	169.77	6 m	557	feet
(Modified)	AVE:	1.5 mm		60 I	mil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											171 mir	nutes
Asperity		Average	Тор						.6	9 mm	ו 2	7 mil
ASTM D7466		Average	Bottom	1					.7	1 mm	ו 2 מ	8 mil
Specific Gravity ASTM D792		Average De	ensity								.94	4 g/cc
MFI ASTM D1238 COND. E				00/24	100 -	- /10					-	•
Grade: K307		Melt Flow	Index 190	JC/21	160 g ·	- g/10	min				.2.	3
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTM	I D5596	Category									10 in Catego	ry 1
		Average St	rongth @	Vial	d	MD	26	N/mm	146	5 ppi	2426	psi
Tensile Strength ASTM D6693		Average St	rengti (d) Heit	u	TD	29	N/mm	165	5 ppi	2724	psi
(2 inches / minute)		A		Dura	- I.	MD	34	N/mm	193	3 ppi	3214	psi
		Average St	rengtn @	Brea	ак	TD	32	N/mm	182	2 ppi	2998	psi
Tensile Elongation						MD					18	\$ %
ASTM D6693		Average El	ongation	@ Yi	eld	TD					15	%
(2 inches / minute)						MD					488	8 %
Lo = 2.0" Break		Average El	ongation	@Bro	eak	TD					562	2 %
						MD			220.2	NI	74	lbc
Tear Resistance		Average Te	ear Resist	ance					229.2		74	lbs.
									529.2		/4	105.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						627.2	N	141	lbs.
Notched Constant Tensile Load ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/2/2017

OA#: **38383**

Signature:



ROLL #: G17F003561	LOT #:	#: HHK820510 I			R TYP	E:			6) HC	MICROS	PIKE
		METRIC	El	NGLIS	н				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		55 n	nil		Th	ickness:	1.5	2 mm	6 0	mil
ASTM D5994	MAX:	1.6 mm		64 r	nil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		59 r	nil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											171 mir	nutes
Asperity		A	Тор						.6	9 mm	n 2 :	7 mil
ASTM D7466		Average	Bottom	า					.7	6 mm	3 (0 mil
Specific Gravity ASTM D792		Average De	ensity								.94	4 g/cc
MFI ASTM D1238 COND. E			1.1. 10	00/04	60	14.0						-
Grade: K307		Melt Flow	index 19	0C/21	.60 g -	g/10	min				.2	3
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTM	I D5596	Category									10 in Catego	ry 1
		A	ususth C			MD	26	N/mm	146	5 ppi	2426	psi
Tensile Strength ASTM D6693		Average St	rengtn @	y rieic	ג י	TD	29	N/mm	165	5 ррі	2724	psi
(2 inches / minute)		A				MD	34	N/mm	193	ppi	3214	psi
		Average St	rengtn @	y Brea	IK .	TD	32	N/mm	182	ppi	2998	psi
Tensile Elongation						MD					18	8 %
ASTM D6693		Average El	ongation	∩@ Yi€	eld .	TD					15	%
(2 inches / minute)						МП					199	2 0/
Lo = 2.0" Break		Average El	ongation	@Bre	eak	חויי חד						0/
											502	. 70
Tear Resistance		Average Te	ear Resist	tance		MD			329.2	N	74	lbs.
ASTM D1004 (Modified)						TD			329.2	N	74	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						627.2	N	141	lbs.
Notched Constant Tensile Load	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003562	LOT #:	DT #: HHK820780 LINER TYPE				PE:			60) HD	MICROS	PIKE
		METRIC	EN	IGLI	SH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		55	mil		Th	ickness:	1.52	2 mm	6 0	mil
ASTM D5994	MAX:	1.5 mm		61	mil			Length:	164.594	4 m	540	feet
(Modified)	AVE:	1.4 mm		57	mil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											174 mir	nutes
Asperity		A	Тор						.64	4 mm	n 2 !	5 mil
ASTM D7466		Average	Bottom						.74	4 mm	2 9	9 mil
Specific Gravity ASTM D792		Average De	ensity								.94	4 g/cc
MFI ASTM D1238 COND. E				~ ~ ~	1.00	40					-	•
Grade: K307		Melt Flow	Index 190	JC/2	160 g	- g/10 r	nın				.2	2
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTM	1 D5596	Category									10 in Catego	ry 1
		A		N/: -		MD	26	N/mm	146	ррі	2426	psi
Tensile Strength ASTM D6693		Average St	rengtn @	y vie	Ia	TD	29	N/mm	165	ррі	2724	psi
(2 inches / minute)						MD	34	N/mm	193	ррі	3214	psi
		Average St	rength @) Bre	ак	TD	32	N/mm	182	ррі	2998	psi
Tensile Elongation						MD					18	\$ %
ASTM D6693		Average El	ongation	@ Y	ield	TD					15	i %
(2 inches / minute)						МП					100	• 0/
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation	@B	reak						400) 70 0/
						ID					502	. 70
Tear Resistance		Average Te	ear Resist	ance	2	MD			329.2 ľ	N	74	lbs.
ASTM D1004 (Modified)		0			-	TD			329.2 N	N	74	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						627.2 N	N	141	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	<u>9</u> 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003563	LOT #:	DT #: HHK820780 LINER TYPE						60	HD	MICROS	PIKE
		METRIC	ENG	LISH				METF	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm	54	4 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm	6:	1 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.4 mm	57	7 mil			Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										174 mir	nutes
Asperity		A	Тор					.56	i mm	22	2 mil
ASTM D7466		Average	Bottom					.79	mm	3:	1 mil
Specific Gravity ASTM D792		Average De	ensity							.944	4 g/cc
MFI ASTM D1238 COND. E				10 4 6 0	4.0						
Grade: K307		Melt Flow	Index 190C	/2160 ខ្	g - g/10	mın				.2.	2
Carbon Black Content ASTM D	4218	Range								2.0	6 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A		: .] .]	MD	24	N/mm	139	ррі	2356	psi
Tensile Strength ASTM D6693		Average St	rengtn @ Y	leid	TD	27	N/mm	152	ррі	2557	psi
(2 inches / minute)					MD	31	N/mm	177	ррі	3002	psi
		Average St	rengtn @ B	reaк	TD	32	N/mm	180	ррі	3021	psi
Tensile Flongation					MD					19) %
ASTM D6693		Average El	ongation @	Yield	TD					15	5 %
(2 inches / minute)					MD					470	• %
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation @	Break						470	/ 70 0/
					ID					604	, 70
Tear Resistance		Average Te	ear Resistan	ice	MD			271.3 N	I	61	lbs.
ASTM D1004 (Modified)		0			TD			271.3 N		61	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N	I	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	NG

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003564	LOT #:	T #: HHK820780 LINER TY			YPE:			60	HD	MICROS	PIKE
		METRIC	EN	IGLISH				METF	RIC	ENGLI	SH
Thickness Measurement	MIN:	1.4 mm		54 mil		Th	ickness:	1.52	. mm	60	mil
ASTM D5994	MAX:	1.6 mm		62 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		58 mil			Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										174 min	nutes
Asperity		A	Тор					.69	mm	27	7 mil
ASTM D7466		Average	Bottom					.79	mm	31	L mil
Specific Gravity ASTM D792		Average De	ensity							.942	²g/cc
MFI ASTM D1238 COND. E				00/04/00							-
Grade: K307		Melt Flow	Index 190)C/2160 g	g - g/10	min				.22	2
Carbon Black Content ASTM D	4218	Range								2.6	5%
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	r y 1
		A			MD	24	N/mm	139	ррі	2356	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rield	TD	27	N/mm	152	ррі	2557	psi
(2 inches / minute)		A			MD	31	N/mm	177	ррі	3002	psi
		Average St	rength @	вгеак	TD	32	N/mm	180	ррі	3021	psi
Tensile Elongation					MD					19	%
ASTM D6693		Average El	ongation	@ Yield	TD					15	%
(2 inches / minute)					МП					470	%
Lo = 2.0" Break		Average El	ongation	@Break						470	%
										004	/0
Tear Resistance		Average Te	ear Resist	ance	MD			271.3 N		61	lbs.
ASTM D1004 (Modified)					TD			271.3 N		61	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N		125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	<u>9</u> 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003565	LOT #:	DT #: HHK820780 LINER TY			ТҮРЕ	:			60) HD	MICROS	PIKE
		METRIC	EN	IGLISH					MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		57 mi	il		Th	ickness:	1.52	2 mm	6 0	mil
ASTM D5994	MAX:	1.5 mm		61 mi	il			Length:	164.594	4 m	540	feet
(Modified)	AVE:	1.5 mm		60 mi	il			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											174 mir	nutes
Asperity		A	Тор						.6	1 mm	1 2 4	4 mil
ASTM D7466		Average	Bottom						.7	9 mm	n 3 :	1 mil
Specific Gravity ASTM D792		Average De	ensity								.942	2 g/cc
MFI ASTM D1238 COND. E			1.1. 100		0	14.0						-
Grade: K307		Melt Flow	Index 190	JC/216	0g -	g/10 n	nın				.2.	2
Carbon Black Content ASTM D	4218	Range									2.0	6 %
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1
			wanath @	Viold	Ν	1D	24	N/mm	139	ppi	2356	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riela	Т	D	27	N/mm	152	ppi	2557	psi
(2 inches / minute)		A		D	Ν	1D	31	N/mm	177	ppi	3002	psi
		Average St	rength @	вгеак	Т	D	32	N/mm	180	ppi	3021	psi
Tensile Elongation					N	1D					19) %
ASTM D6693		Average El	ongation	@ Yiel	d т	D					15	%
(2 inches / minute)					N	חו					470) %
Lo = 2.0" Break		Average El	ongation	@Brea	ik '' т	סו					-70 60/	, <i>7</i> 0
											004	, 70
Tear Resistance		Average Te	ear Resist	ance	N	1D			271.3	N	61	lbs.
ASTM D1004 (Modified)					Т	D			271.3	N	61	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0	N	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	<u>9</u> 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003566	LOT #:	#: HHK820780 LI			R TYP	E:			60) HD	MICROS	PIKE
		METRIC	EN	GLIS	н				MET	RIC	ENGLI	SH
Thickness	MIN:	1.5 mm		58 n	nil		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		64 n	nil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		60 n	nil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											174 mir	nutes
Asperity		Average	Тор						.7	1 mm	2	8 mil
ASTM D7466		Average	Bottom						.7	4 mm	2	9 mil
Specific Gravity ASTM D792		Average De	ensity								.942	2 g/cc
MFI ASTM D1238 COND. E			la day 100	0.124	<u> </u>	- /10					2	•
Grade: K307		Melt Flow	index 190	IC/21	60 g -	g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTM	I D5596	Category									10 in Catego	ry 1
			ronath @	Viala	1	MD	24	N/mm	139	ppi	2356	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rielo		TD	27	N/mm	152	2 ppi	2557	psi
(2 inches / minute)		A		D		MD	31	N/mm	177	ppi	3002	psi
		Average St	rengtn @	вгеа	К.	TD	32	N/mm	180) ppi	3021	psi
Tensile Elongation						MD					19) %
ASTM D6693		Average El	ongation	@ Yie	eld .	TD					15	%
(2 inches / minute)						MD					470) %
Lo = 2.0" Break		Average El	ongation	@Bre	eak	TD					604	, %
									271.2		61	lbc
Tear Resistance		Average Te	ear Resista	ance	-				271.3	N	61	IDS.
						ID			2/1.5	N	10	IDS.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0 I	N	125	lbs.
Notched Constant Tensile Load ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003567	LOT #:	T #: HHK820780 LINER 1			R TYPI	E:			60) HD	MICROS	PIKE
		METRIC	EN	NGLISH					MET	RIC	ENGLI	SH
Thickness Measurement	MIN:	1.5 mm		58 m	il		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		62 m	il			Length:	164.594	4 m	540	feet
(Modified)	AVE:	1.5 mm		60 m	il			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											174 mir	nutes
Asperity		A	Тор						.6	6 mm	2	6 mil
ASTM D7466		Average	Bottom	1					.70	6 mm	30	0 mil
Specific Gravity ASTM D792		Average De	ensity								.94	2 g/cc
MFI ASTM D1238 COND. E						14.0					-	
Grade: K307		Melt Flow	Index 190	JC/216	0g -	g/10	mın				.2	2
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1
		A			ſ	MD	24	N/mm	139	ррі	2356	psi
Tensile Strength ASTM D6693		Average St	rengtn @) Yield	٦	ГD	27	N/mm	152	ррі	2557	psi
(2 inches / minute)		A			ſ	МD	31	N/mm	177	ррі	3002	psi
		Average St	rengtn @) Break	: 1	ГD	32	N/mm	180	ppi	3021	psi
Tensile Flongation					ſ	MD					19) %
ASTM D6693		Average El	ongation	@ Yiel	d 1	ГD					15	; %
(2 inches / minute)					r	ИП					470	0/
Lo = 1.3 Meid Lo = 2.0" Break		Average Ele	ongation	@Brea	ak '						470	, 70 , 0/
											004	, /0
Tear Resistance		Average Te	ear Resist	ance	ſ	MD			271.3	N	61	lbs.
ASTM D1004 (Modified)		5				ΓD			271.3	N	61	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0 N	N	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003568	LOT #:	T #: HHK820780 LINER T			YPE:			60	HD	MICROS	PIKE
		METRIC	EN	IGLISH				METF	RIC	ENGLI	SH
Thickness Measurement	MIN:	1.5 mm		58 mil		Th	ickness:	1.52	: mm	60	mil
ASTM D5994	MAX:	1.6 mm		63 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		60 mil			Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										174 mir	nutes
Asperity		A	Тор					.69	mm	2	7 mil
ASTM D7466		Average	Bottom					.74	l mm	29	9 mil
Specific Gravity ASTM D792		Average De	ensity							.942	2 g/cc
MFI ASTM D1238 COND. E				0 /04 00							•
Grade: K307		Melt Flow	Index 190	C/2160	g - g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range								2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A		V: a l al	MD	28	N/mm	159	ррі	2630	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rield	TD	26	N/mm	149	ррі	2490	psi
(2 inches / minute)		A		Dural	MD	34	N/mm	197	ррі	3267	psi
		Average St	rengtn @	вгеак	TD	37	N/mm	212	ррі	3535	psi
Tensile Flongation					MD					16	i %
ASTM D6693		Average El	ongation	@ Yield	TD					19) %
(2 inches / minute)					МП					591	0/
Lo = 1.3 Yield Lo = 2.0" Break		Average Ele	ongation	@Break						100	. /0
										403	/0
Tear Resistance		Average Te	ear Resista	ance	MD			271.3 N	i	61	lbs.
ASTM D1004 (Modified)		5			TD			271.3 N	<u> </u>	61	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N	1	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003569	LOT #:	DT #: HHK820780 LINER TYPE						60	HD	MICROS	PIKE
		METRIC	ENGL	ISH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.5 mm	58	mil		Th	ickness:	1.52	: mm	60	mil
ASTM D5994	MAX:	1.6 mm	63	mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm	60	mil			Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										174 mir	nutes
Asperity		A	Тор					.76	i mm	3	0 mil
ASTM D7466		Average	Bottom					.79	mm 🕈	3	1 mil
Specific Gravity ASTM D792		Average De	ensity							.94	2 g/cc
MFI ASTM D1238 COND. E				• • • • •	4.0						_
Grade: K307		Melt Flow	Index 190C/	2160 g	- g/10	mın				.2	2
Carbon Black Content ASTM D	4218	Range								2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A		- -	MD	28	N/mm	159	ррі	2630	psi
Tensile Strength ASTM D6693		Average St	rength @ Yi	eid	TD	26	N/mm	149	ррі	2490	psi
(2 inches / minute)					MD	34	N/mm	197	ррі	3267	psi
		Average St	rength @ Br	еак	TD	37	N/mm	212	ррі	3535	psi
Tensile Flongation					MD					16	i %
ASTM D6693		Average El	ongation @	Yield	TD					19) %
(2 inches / minute)					МП					E01	0/
LO = 1.3 Yield LO = 2.0" Break		Average El	ongation @E	Break						100	. 70
					U					485	/ 70
Tear Resistance		Average Te	ear Resistanc	e	MD			271.3 N	Í	61	lbs.
ASTM D1004 (Modified)					TD			271.3 N	1	61	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N	I	125	lbs.
Notched Constant Tensile Load	d	Pass/Fail @	<u>9</u> 30%					500 Hr	s.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003570	LOT #:	#: HHK820780 LINER			TYPE:			6 0 I	HD N	/ICROSE	PIKE
		METRIC	EN	IGLISH				METRI	2	ENGLIS	SH
Thickness	MIN:	1.4 mm		57 mi	I	Th	ickness:	1.52 I	mm	60	mil
ASTM D5994	MAX:	1.6 mm		63 mi	I		Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		61 mi	I		Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										174 min	utes
Asperity		A	Тор					.66	nm	26	i mil
ASTM D7466		Average	Bottom					.79 ı	nm	31	. mil
Specific Gravity ASTM D792		Average De	ensity							.942	g/cc
MFI ASTM D1238 COND. E						10					
Grade: K307		Melt Flow	index 190	JC/2160	Jg - g/.	to min				.22	•
Carbon Black Content ASTM D	4218	Range								2.5	%
Carbon Black Dispersion ASTM	1 D5596	Category							10) in Categor	y 1
		A			MD	28	N/mm	159 p	pi	2630	psi
Tensile Strength		Average St	rengtn @	' field	TD	26	N/mm	149 p	pi	2490	psi
(2 inches / minute)					MD	34	N/mm	197 p	pi	3267	psi
		Average St	rength @) Break	TD	37	N/mm	212 p	pi	3535	psi
Tonsilo Flongation					MD					16	%
ASTM D6693		Average El	ongation	@ Yield	d TD					-0	%
(2 inches / minute)											,.
Lo = 1.3" Yield		Average Ele	ongation	@Brea	k MD					581	%
LO = 2.0 Break					TD					489	%
Tear Resistance		Avorago To	or Docist	2000	MD			271.3 N		61	lbs.
ASTM D1004 (Modified)		Average re	ai Resist	ance	TD			271.3 N		61	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N		125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hrs.		ONGO	ING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/3/2017

OA#: 38383

Signature: _____



ROLL #: G17F003571	LOT #:	T #: HHK820780 LINER TYP			E:			60) HD	MICROS	PIKE	
		METRIC	EN	IGLISH	ł				MET	RIC	ENGLI	SH
Thickness	MIN:	1.5 mm		58 m	nil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		64 m	nil			Length:	164.594	1 m	540	feet
(Modified)	AVE:	1.5 mm		60 m	nil			Width:	7.01	L m	23	feet
OIT(Standard) ASTM D 3895											174 mir	nutes
Asperity		A	Тор						.7	L mm	23	8 mil
ASTM D7466		Average	Bottom						.79) mm	3:	1 mil
Specific Gravity ASTM D792		Average De	ensity								.942	2 g/cc
MFI ASTM D1238 COND. E			1.1. 100		-	14.0						
Grade: K307		Melt Flow	Index 190	JC/216	50g-	g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTM	1 D5596	Category									10 in Catego	ry 1
		A	usu sthe O			MD	28	N/mm	159	ppi	2630	psi
Tensile Strength		Average St	rengtn @	, rieid	-	TD	26	N/mm	149	ррі	2490	psi
(2 inches / minute)						MD	34	N/mm	197	ppi	3267	psi
		Average St	rength @) Break	< .	TD	37	N/mm	212	ppi	3535	psi
Tonsilo Flongation						MD					16	· %
ASTM D6693		Average El	ongation	@ Yie	ld .	TD) %
(2 inches / minute)												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Lo = 1.3" Yield		Average El	ongation	@Brea	ak	MD					581	. %
LO = 2.0 Break						TD					489	1 %
Tear Resistance			or Pociet	2000		MD			271.3 N	1	61	lbs.
ASTM D1004 (Modified)		Average re		ance		TD			271.3 N	1	61	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0 N	1	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 Hi	rs.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003572	LOT #:	HHK820	0780	LINER T	YPE:			60	HD	MICROS	PIKE
		METRIC	EN	IGLISH				METF	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		55 mil		Th	ickness:	1.52	: mm	60	mil
ASTM D5994	MAX:	1.6 mm		62 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.4 mm		57 mil			Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										174 mir	nutes
Asperity		A	Тор					.89	mm	3	5 mil
ASTM D7466		Average	Bottom					.86	i mm	34	4 mil
Specific Gravity ASTM D792		Average De	ensity							.942	2 g/cc
MFI ASTM D1238 COND. E											-
Grade: K307		Melt Flow	Index 190	IC/2160 §	g - g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range								2.	5 %
Carbon Black Dispersion ASTM	1 D5596	Category								10 in Catego	ry 1
		A		Vi a lal	MD	28	N/mm	159	ррі	2630	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rield	TD	26	N/mm	149	ррі	2490	psi
(2 inches / minute)			non ath @	Dreak	MD	34	N/mm	197	ррі	3267	psi
		Average St	rengtn @	вгеак	TD	37	N/mm	212	ррі	3535	psi
Tensile Elongation					MD					16	%
ASTM D6693		Average El	ongation	@ Yield	TD					19	1 %
(2 inches / minute)					MD					581	%
Lo = 2.0" Break		Average El	ongation	@Break						/90	, 70) %
										-05	
Tear Resistance		Average Te	ear Resista	ance	MD			2/1.3 N		61	lbs.
ASTIM D1004 (Modified)					TD			271.3 N	i 	61	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N	1	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	S.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/3/2017

OA#: 38383

Signature: _____



ROLL #: G17F003573	LOT #:	HHK820	0780	LINER T	YPE:			60	HD	MICROS	PIKE
		METRIC	EN	GLISH				METR	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		55 mil		Th	ickness:	1.52	mm	60	mil
ASTM D5994	MAX:	1.6 mm		62 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		58 mil			Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										174 min	nutes
Asperity		Average	Тор					.61	mm	24	4 mil
ASTM D7466		Average	Bottom					.74	mm	29	9 mil
Specific Gravity ASTM D792		Average De	ensity							.942	2 g/cc
MFI ASTM D1238 COND. E					40						
Grade: K307		Melt Flow	Index 190	IC/2160 g	g - g/10				.2.	2	
Carbon Black Content ASTM D	4218	Range								2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A		Vi a lal	MD	24	N/mm	136	ррі	2289	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rield	TD	26	N/mm	146	ррі	2467	psi
(2 inches / minute)		A		Ducal	MD	33	N/mm	186	ррі	3120	psi
		Average St	rengtn @	вгеак	TD	31	N/mm	177	ррі	2999	psi
Tensile Elongation					MD					21	. %
ASTM D6693		Average El	ongation	@ Yield	TD					15	6 %
(2 inches / minute)					МП					/181	%
Lo = 2.0" Break		Average El	ongation	@Break						401	: %
										005	
Tear Resistance		Average Te	ance	MD			2/1.3 N		61	lbs.	
ASTIVI D1004 (Modified)					TD			275.8 N		62	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N		125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003574	LOT #:	#: HHK820780 I			R TYP	E:			60) HD	MICROS	PIKE
		METRIC	EN	GLISI	н				MET	RIC	ENGL	ISH
Thickness	MIN:	1.4 mm		54 n	nil		Th	ickness:	1.52	2 mm	6 0	mil
ASTM D5994	MAX:	1.5 mm		60 n	nil			Length:	164.594	4 m	540	feet
(Modified)	AVE:	1.4 mm		57 n	nil			Width:	7.0 2	1 m	23	feet
OIT(Standard) ASTM D 3895											174 mir	nutes
Asperity		Average	Тор						.6	9 mm	1 2	7 mil
ASTM D7466		Average	Bottom						.84	4 mm	1 3	3 mil
Specific Gravity ASTM D792		Average De	ensity								.94	2 g/cc
MFI ASTM D1238 COND. E				0/04	<u> </u>	14.0					-	-
Grade: K307		Melt Flow	Index 190	C/21	60 g -	- g/10	mın				.2	2
Carbon Black Content ASTM D	04218	Range									2.	5 %
Carbon Black Dispersion ASTN	/I D5596	Category									10 in Catego	ry 1
		A		V: ala	1	MD	24	N/mm	136	ррі	2289	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rieic	1	TD	26	N/mm	146	ррі	2467	psi
(2 inches / minute)				_		MD	33	N/mm	186	ррі	3120	psi
		Average St	rength @	Brea	K	TD	31	N/mm	177	ppi	2999	psi
Tensile Flongation						MD					21	L %
ASTM D6693		Average El	ongation	@ Yie	eld	TD					15	5 %
(2 inches / minute)						MD					191	1 %
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation	@Bre	eak						401	L /0
											00:) /0
Tear Resistance		Average Te		MD			271.3	N	61	lbs.		
ASTM D1004 (Modified)		5				TD			275.8 1	N	62	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0	N	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	<u>9</u> 30%				500 H	rs.	ONGC	DING		

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/3/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003575	LOT #:	HHK820	0780	LINER T	YPE:			60	HD	MICROS	PIKE
		METRIC	EN	IGLISH				METR	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		54 mil		Th	ickness:	1.52	mm	60	mil
ASTM D5994	MAX:	1.6 mm		63 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		59 mil			Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										174 min	nutes
Asperity		A	Тор					.66	mm	20	6 mil
ASTM D7466		Average	Bottom					.76	mm	30	0 mil
Specific Gravity ASTM D792		Average De	ensity							.942	2 g/cc
MFI ASTM D1238 COND. E											-
Grade: K307		Melt Flow	Index 190	JC/2160 g	g - g/10				.24	2	
Carbon Black Content ASTM D	4218	Range								2.5	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A			MD	24	N/mm	136	ррі	2289	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riela	TD	26	N/mm	146	ррі	2467	psi
(2 inches / minute)		A		Durali	MD	33	N/mm	186	ррі	3120	psi
		Average St	rengtn @	вгеак	TD	31	N/mm	177	ррі	2999	psi
Tensile Elongation					MD					21	. %
ASTM D6693		Average El	ongation	@ Yield	TD					15	%
(2 inches / minute)					MD					481	%
Lo = 2.0" Break		Average El	ongation	@Break						401	· ·/·
										005	
Tear Resistance		Average Te	MD			2/1.3 N		61	lbs.		
ASTIVI D1004 (Modified)					TD			275.8 N		62	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N		125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/3/2017

OA#: 38383

Signature: _____



ROLL #: G17F003576	LOT #:	HHK82	0440	LINER	TYPE:			60 HI	D MICROS	PIKE
		METRIC	Eľ	NGLISH				METRIC	ENGLI	ISH
Thickness	MIN:	1.4 mm		54 mi	l	Tł	ickness:	1.52 mn	n 60	mil
ASTM D5994	MAX:	1.5 mm		59 mi			Length:	164.594 m	540	feet
(Modified)	AVE:	1.4 mm		57 mi			Width:	7.01 m	23	feet
OIT(Standard) ASTM D 3895									168 mir	nutes
Asperity		Average	Тор					.64 mn	n 2 !	5 mil
ASTM D7466		Average	Bottom	1				.74 mn	n 2	9 mil
Specific Gravity ASTM D792		Average De	ensity						.94	7 g/cc
MFI ASTM D1238 COND. E			1.1. 10			0				
Grade: K307		Melt Flow	Index 19	UC/2160)g - g/1	0 min			.2.	2
Carbon Black Content ASTM D	4218	Range							2.0	6 %
Carbon Black Dispersion ASTN	1 D5596	Category							10 in Catego	ry 1
		Average St	rongth @	Viold	MD	24	N/mm	136 ppi	2289	psi
Tensile Strength ASTM D6693		Average St	rengti (d	rielu	TD	26	N/mm	146 ppi	2467	psi
(2 inches / minute)					MD	33	N/mm	186 ppi	3120	psi
		Average St	rength @	Break	TD	31	N/mm	177 ppi	2999	psi
Tensile Elongation					MD				21	L %
ASTM D6693		Average El	ongation	@ Yield	d td				15	; %
(2 inches / minute)					. MD				481	ι %
Lo = 2.0" Break		Average El	ongation	@Brea	k TD				605	5 %
Teen Desistence					MD			271 3 N	61	lhs
ASTM D1004 (Modified)		Average Te	ear Resist	ance	тр			275.8 N	62	lbs.
,								275.0 1		105.
ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hrs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature:



ROLL #: G17F003577	LOT #:	HHK820	0440	LINER T	YPE:			60) HD	MICROS	PIKE
		METRIC	EN	NGLISH				MET	RIC	ENGLI	SH
Thickness Measurement	MIN:	1.4 mm		55 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		62 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.5 mm		58 mil			Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		A	Тор					.61	. mm	24	4 mil
ASTM D7466		Average	Bottom	1				.84	l mm	33	3 mil
Specific Gravity ASTM D792		Average De	ensity							.94	7 g/cc
MFI ASTM D1238 COND. E				00/24.00							-
Grade: K307		Melt Flow	Index 190	JC/2160 g	g - g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range								2.(6 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A			MD	24	N/mm	136	ррі	2289	psi
Tensile Strength ASTM D6693		Average St	rengtn @) Yield	TD	26	N/mm	146	ррі	2467	psi
(2 inches / minute)		A			MD	33	N/mm	186	ррі	3120	psi
		Average St	rengtn @) вгеак	TD	31	N/mm	177	ррі	2999	psi
Tensile Elongation					MD					21	. %
ASTM D6693		Average El	ongation	@ Yield	TD					15	6 %
(2 inches / minute)					MD					481	%
Lo = 2.0" Break		Average El	ongation	@Break						-01	: %
Tear Resistance		Average Te	ear Resist	ance	MD			271.3 N	1	61	lbs.
ASTM D1004 (Modified)					TD			275.8 N	l	62	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					556.0 N	1	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	۶.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature: _____



ROLL #: G17F003578	LOT #:	#: HHK820440		LINE	ER TYP	PE:			60) HD	MICROS	PIKE
		METRIC	EN	NGLIS	н				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		54 r	nil		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 r	mil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		58 r	mil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		Average	Тор						.6	4 mm	2	5 mil
ASTM D7466		Average	Bottom	1					.7	6 mm	30	0 mil
Specific Gravity ASTM D792		Average De	ensity								.94	7 g/cc
MFI ASTM D1238 COND. E				00/24								-
Grade: K307		Melt Flow	Index 19	JC/21	.60 g	- g/10	min				.2.	2
Carbon Black Content ASTM D	04218	Range									2.0	6 %
Carbon Black Dispersion ASTN	/I D5596	Category									10 in Catego	ry 1
		Augus as Ct	nonath G	N vial	1	MD	23	N/mm	134	l ppi	2281	psi
Tensile Strength		Average St	rengtn @	^y rieit	J	TD	26	N/mm	146	; ppi	2454	psi
(2 inches / minute)						MD	33	N/mm	186	; ppi	3118	psi
		Average St	rength @) Brea	ak	TD	33	N/mm	190) ppi	3187	psi
Tonsilo Flongation						MD					25	%
ASTM D6693		Average Ele	ongation	@ Yi	eld	TD					17	%
(2 inches / minute)											504	0/
Lo = 1.3" Yield		Average Ele	ongation	@Bre	eak						501	. %
						ID					590	1 %
Tear Resistance		Δυργοσο Το	or Posist	tanco		MD			271.3 I	N	61	lbs.
ASTM D1004 (Modified)		Average re		ance		TD			275.8 I	Ν	62	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0	N	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature:



ROLL #: G17F003579	LOT #:	HHK820	0440	LINE	R TYP	E:			60) HD	MICROS	PIKE
		METRIC	EN	IGLISH	1				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		57 m	nil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 m	nil			Length:	164.594	4 m	540	feet
(Modified)	AVE:	1.5 mm		60 m	nil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		A	Тор						.74	4 mm	29	9 mil
ASTM D7466		Average	Bottom						.74	4 mm	29	9 mil
Specific Gravity ASTM D792		Average De	ensity								.94	7 g/cc
MFI ASTM D1238 COND. E						. 14.0						-
Grade: K307		Melt Flow	Index 190	JC/216	50 g -	g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range									2.0	6 %
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1
		A	and the o) /: - -	I	MD	23	N/mm	134	ррі	2281	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rieid	٦	ΓD	26	N/mm	146	ррі	2454	psi
(2 inches / minute)		A	nameth O	. D	1	MD	33	N/mm	186	ррі	3118	psi
		Average St	rengtn @	Break	< 1	ГD	33	N/mm	190	ppi	3187	psi
Tensile Elongation					ſ	MD					25	5 %
ASTM D6693		Average El	ongation	@ Yie	ld -	ГD					17	' %
(2 inches / minute)					r	МП					501	%
Lo = 2.0" Break		Average El	ongation	@Bre	ak '						501	· %
											550	
Tear Resistance		Average Te	-				2/1.3	N	61	lbs.		
ASTIVI D1004 (Modified)						ſD			275.8	N	62	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0 N	N	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature: _____



ROLL #: G17F003580	LOT #:	HHK820	LINEF	R TYPE	:			60) HD	MICROS	PIKE	
		METRIC	EN	NGLISH					MET	RIC	ENGLI	SH
Thickness Moasurement	MIN:	1.5 mm		59 m	il		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 m	il			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		60 m	il			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 min	nutes
Asperity		A	Тор						.7	6 mm	30	0 mil
ASTM D7466		Average	Bottom	1					.7	6 mm	30	0 mil
Specific Gravity ASTM D792		Average De	ensity								.947	7 g/cc
MFI ASTM D1238 COND. E				00/046		14.0	•					-
Grade: K307		Melt Flow	index 190	JC/216	0g -	g/10 r	nın				.24	2
Carbon Black Content ASTM D	4218	Range							2.0	6 %		
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1
		A			Ν	/ID	23	N/mm	134	l ppi	2281	psi
Tensile Strength ASTM D6693		Average St	rengtn @	^y rieid	Т	D	26	N/mm	146	і ррі	2454	psi
(2 inches / minute)		A		Dural	N	/ID	33	N/mm	186	; ppi	3118	psi
		Average St	rengtn @	вгеак	Т	D	33	N/mm	190) ppi	3187	psi
Tensile Elongation					N	1D					25	5 %
ASTM D6693		Average Ele	ongation	@ Yiel	d т	D					17	' %
(2 inches / minute)					Ν	/ D					501	%
Lo = 2.0" Break		Average El	ongation	@Brea	ak ''	"ם ח					501	. %
						40					550	
Tear Resistance		Average Te	ance	N	/ID			2/1.3	N	61	lbs.	
ASTIVI D1004 (Modified)					Т	D			275.8	N	62	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0 I	N	125	lbs.
Notched Constant Tensile Load ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature: _____



ROLL #: G17F003581	LOT #:	HHK820	0440	LIN	ER TYF	PE:			6	0 H D	MICROS	PIKE
		METRIC	EN	IGLIS	SH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		57	mil		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		62	mil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		60	mil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 min	nutes
Asperity		Average	Тор						.7	4 mm	29	9 mil
ASTM D7466		Average	Bottom						.7	9 mm	3 2	1 mil
Specific Gravity ASTM D792		Average De	ensity								.947	7 g/cc
MFI ASTM D1238 COND. E					1.00	. 14.0						
Grade: K307		Melt Flow	index 190	JC/2	160 g	- g/10	min				.24	2
Carbon Black Content ASTM D	4218	Range									2.(6 %
Carbon Black Dispersion ASTM	1 D5596	Category									10 in Catego	ry 1
		A		N V: - I		MD	23	N/mm	134	1 ppi	2281	psi
Tensile Strength ASTM D6693		Average St	rengtn @	y viei	a	TD	26	N/mm	146	5 ppi	2454	psi
(2 inches / minute)				_		MD	33	N/mm	186	5 ppi	3118	psi
		Average St	rength @) Bre	ak	TD	33	N/mm	190) ppi	3187	psi
Tensile Flongation						MD					25	%
ASTM D6693		Average El	ongation	@ Y	ield	TD					17	%
(2 inches / minute)						MD					E01	0/
LO = 1.3 Meid Lo = 2.0" Break		Average El	ongation	@Br	reak						501	/0 0/
						ID					590	70
Tear Resistance		Average Te	ear Resist	ance	2	MD			271.3	N	61	lbs.
ASTM D1004 (Modified)						TD			275.8	N	62	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0	N	125	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 H	lrs.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature: _____



ROLL #: G17F003582	LOT #:	HHK820	0440	LIN	ER TYP	PE:			6	0 HD	MICROS	PIKE
		METRIC	EN	IGLIS	ы				MET	RIC	ENGLI	SH
Thickness	MIN:	1.5 mm		58	mil		Th	ickness:	1.5	2 mm	n 60	mil
ASTM D5994	MAX:	1.5 mm		61	mil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		60	mil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		A	Тор						.7	1 mm	n 2 8	B mil
ASTM D7466		Average	Bottom						.8	1 mm	n 3 2	2 mil
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/cc
MFI ASTM D1238 COND. E						14.0						_
Grade: K307		Melt Flow	Index 190	JC/2	160 g ·	- g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range									2.0	5 %
Carbon Black Dispersion ASTN	I D5596	Category									10 in Catego	ry 1
					.1	MD	23	N/mm	134	1 ppi	2281	psi
Tensile Strength ASTM D6693		Average St	rengtn @	y viei	a	TD	26	N/mm	146	5 ppi	2454	psi
(2 inches / minute)		A			. 1	MD	33	N/mm	186	5 ppi	3118	psi
		Average St	rengtn @	Brea	ак	TD	33	N/mm	190) ppi	3187	psi
Tensile Elongation						MD					25	%
ASTM D6693		Average El	ongation	@ Yi	eld	TD					17	%
(2 inches / minute)						МП					501	%
Lo = 2.0" Break		Average El	ongation	@Br	eak						501	%
									274.2		550	
Tear Resistance		Average Te	ear Resist	ance					2/1.3		61	IDS.
						ID			275.8	N	62	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						556.0	N	125	lbs.
Notched Constant Tensile Load ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature:



ROLL #: G17F003583	LOT #:	#: HHK820440			ER TYF	PE:			6) HD	MICROS	PIKE
		METRIC	EN	NGLIS	SH				MET	RIC	ENGL	SH
Thickness	MIN:	1.5 mm		58	mil		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		61	mil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		60	mil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		A	Тор						.7	4 mm	2	9 mil
ASTM D7466		Average	Bottom	l					.7	9 mm	3	1 mil
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/cc
MFI ASTM D1238 COND. E					1.00							-
Grade: K307		Neit Flow	Index 190	UC/2	160 g	- g/10	min				.2	2
Carbon Black Content ASTM D	4218	Range									2.	6 %
Carbon Black Dispersion ASTM	D5596	Category									10 in Catego	ry 1
		Average Ct	non ath G		al	MD	25	N/mm	144	l ppi	2361	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riei	a	TD	27	N/mm	155	ррі	2545	psi
(2 inches / minute)						MD	35	N/mm	202	ppi	3304	psi
		Average St	rength @	Bre	ak	TD	30	N/mm	171	. ppi	2806	psi
Tensile Flongation						MD					20) %
ASTM D6693		Average El	ongation	@ Y	ield	TD					15	; %
(2 inches / minute)											100	b 0/
$Lo = 1.3^{\circ}$ Yield Lo = 2.0" Break		Average El	ongation	@Br	eak						400 F 41) 70 - 0/
											545	
Tear Resistance		Average Te	ear Resist	ance	•	MD			266.9	N	60	lbs.
ASTM D1004 (Modified)						TD			289.1	N	65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						578.2	N	130	lbs.
Notched Constant Tensile Load	d t	Pass/Fail @	9 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature: _____



ROLL #: G17F003584	LOT #:	HHK820	0440	LIN	ER TYF	PE:			6	0 HD	MICROS	PIKE
		METRIC	EN	IGLIS	5H				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		56	mil		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		60	mil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		59	mil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		Average	Тор						.6	6 mm	20	6 mil
ASTM D7466		Average	Bottom						.6	9 mm	2	7 mil
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/cc
MFI ASTM D1238 COND. E			1.1. 100		1.60	. 14.0						
Grade: K307		Melt Flow	Index 190	JC/2	160 g	- g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range									2.0	6 %
Carbon Black Dispersion ASTM	1 D5596	Category									10 in Catego	ry 1
			wanath @		a	MD	25	N/mm	144	l ppi	2361	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riei	u	TD	27	N/mm	155	5 ppi	2545	psi
(2 inches / minute)						MD	35	N/mm	202	2 ppi	3304	psi
		Average St	rength @	Brea	ак	TD	30	N/mm	171	L ppi	2806	psi
Tensile Elongation						MD					20) %
ASTM D6693		Average El	ongation	@ Yi	ield	TD					15	%
(2 inches / minute) $L_0 = 1.3$ " Vield						MD					488	%
Lo = 2.0" Break		Average El	ongation	@Br	eak	TD					545	%
						MD			266.0	N	60	lbc
Tear Resistance		Average Te	ear Resist	ance	!				200.9		60 65	IDS.
						U			289.1	N	65	IDS.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						578.2	N	130	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/4/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003585	LOT #:	OT #: HHK820440 LINER TY						60	HD	MICROS	PIKE
		METRIC	ENG	GLISH				METR	lC	ENGLI	SH
Thickness	MIN:	1.5 mm	5	58 mi	I	Th	ickness:	1.52	mm	60	mil
ASTM D5994	MAX:	1.6 mm	e	54 mi	I		Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm	e	5 0 mi	I		Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		A	Тор					.66	mm	20	6 mil
ASTM D7466		Average	Bottom					.71	mm	28	8 mil
Specific Gravity ASTM D792		Average De	ensity							.94	5 g/cc
MFI ASTM D1238 COND. E					_						
Grade: K307		Melt Flow	Index 1900	C/2160)g - g/	10 min				.2.	2
Carbon Black Content ASTM D	4218	Range								2.0	6 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		Augus as Ct	reneth @	Viold	MD	25	N/mm	144	ррі	2361	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riela	TD	27	N/mm	155	ррі	2545	psi
(2 inches / minute)				. .	MD	35	N/mm	202	ррі	3304	psi
		Average St	rength @	вгеак	TD	30	N/mm	171	ррі	2806	psi
Tensile Elongation					MD)				20) %
ASTM D6693		Average Ele	ongation (@ Yielo	d td					15	5 %
(2 inches / minute)										100	0/
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation (@Brea	k IVID					400	· 70
					ID					545	70
Tear Resistance		Average Te	ear Resista	nce	MD			266.9 N		60	lbs.
ASTM D1004 (Modified)					TD			289.1 N		65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					578.2 N		130	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	NG

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature: _____



ROLL #: G17F003586	LOT #:	#: HHK820440			TYPE:				60) HD	MICROS	PIK	E
		METRIC	E	NGLISH					MET	RIC	ENGL	SH	
Thickness	MIN:	1.4 mm		56 mi	il	-	Thi	ckness:	1.5	2 mm	6 0	mil	
ASTM D5994	MAX:	1.5 mm		61 mi	il		l	ength:	164.59	4 m	540	feet	
(Modified)	AVE:	1.5 mm		59 mi	il			Width:	7.0	1 m	23	feet	
OIT(Standard) ASTM D 3895											168 mir	nutes	;
Asperity		A	Тор						.6	1 mm	1 2	4 mi	I
ASTM D7466		Average	Bottom	1					.7	4 mm	1 2	9 mi	I
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/c	CC
MFI ASTM D1238 COND. E				00/040	0	14.0						•	
Grade: K307		Melt Flow	Index 19	UC/216	0g - g	g/10 mir	ר				.2	2	
Carbon Black Content ASTM D	4218	Range									2.	6 %	
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1	
		A			М	D 2	25	N/mm	144	l ppi	2361	psi	
Tensile Strength ASTM D6693		Average St	rengtn @	riela	T	2	27	N/mm	155	ррі	2545	psi	
(2 inches / minute)		A			М	D 3	35	N/mm	202	ppi	3304	psi	
		Average St	rengtn @	у вгеак	TC) 3	30	N/mm	171	. ppi	2806	psi	
Tensile Elongation					М	D					20) %	
ASTM D6693		Average Ele	ongation	@ Yiel	d TC)					15	%	
(2 inches / minute)					M	П					489	2 %	
Lo = 2.0" Break		Average Ele	ongation	@Brea	ık ''' тг	ט ז					-00	; %	
						, 					545		
Tear Resistance		Average Te	ear Resist	ance	IVI	D			266.9	N	60	Ibs.	
ASTIVI D1004 (Modified)					TL)			289.1	N	65	lbs.	
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						578.2 I	N	130	lbs.	
Notched Constant Tensile Load ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGC	ING	

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature: _____



ROLL #: G17F003587	LOT #:	HHK820	0440	LIN	IER TY	PE:			6	0 HD	MICROS	PIKE
		METRIC	EN	NGLI	SH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		54	mil		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		62	mil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.4 mm		57	mil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		Average	Тор						.6	4 mm	2	5 mil
ASTM D7466		Average	Bottom						.8	6 mm	34	4 mil
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/cc
MFI ASTM D1238 COND. E			Inday 10		100 ~	~/10					2	2
Grade: K307		Well Flow	Index 190	UC/2	160 g	- g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range									2.0	6 %
Carbon Black Dispersion ASTM	1 D5596	Category									10 in Catego	ry 1
			wanath G			MD	25	N/mm	144	1 ppi	2361	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rie	lu	TD	27	N/mm	155	5 ppi	2545	psi
(2 inches / minute)				_		MD	35	N/mm	202	2 ppi	3304	psi
		Average St	rength @	9 Bre	eak	TD	30	N/mm	17 1	1 ppi	2806	psi
Tensile Flongation						MD					20) %
ASTM D6693		Average El	ongation	@ Y	ïeld	TD					15	%
(2 inches / minute)						MD					488	k %
Lo = 2.0" Break		Average El	ongation	@Bi	reak	TD					545	, ⁷⁰
									266.0		545	
Tear Resistance		Average Te	ear Resist	ance	9				266.9	IN N	60	IDS.
						ID			289.1	N	65	IDS.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						578.2	N	130	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 H	irs.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/4/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003588	LOT #:	T#: HHK820440 LIN			YPE:			60) HD	MICROS	PIKE
		METRIC	Eľ	NGLISH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		55 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		62 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.4 mm		57 mil			Width:	7.01	L m	23	feet
OIT(Standard) ASTM D 3895										168 min	nutes
Asperity		Average	Тор					.64	l mm	2	5 mil
ASTM D7466		Average	Bottom	1				.84	l mm	33	3 mil
Specific Gravity ASTM D792		Average De	ensity							.94	5 g/cc
MFI ASTM D1238 COND. E			1.1. 10	00/04/00							-
Grade: K307		Melt Flow	Index 19	JC/2160	g - g/10) min				.2.	2
Carbon Black Content ASTM D	4218	Range							2.5	5 %	
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
			wanath G	Viold	MD	35	N/mm	201	ррі	3586	psi
Tensile Strength ASTM D6693		Average St	rengtn @	y riela	TD	37	N/mm	214	ррі	3837	psi
(2 inches / minute)		A			MD	45	N/mm	257	ррі	4582	psi
		Average St	rengtn @) вгеак	TD	43	N/mm	244	ррі	4389	psi
Tensile Elongation					MD					23	\$ %
ASTM D6693		Average El	ongation	@ Yield	TD					16	i %
(2 inches / minute)					МП					162	0/
Lo = 2.0" Break		Average El	ongation	@Break						402 615	: %
										015	
Tear Resistance		Average Te	ear Resist	ance	MD			266.9 N		60	lbs.
ASTIVI D1004 (Modified)					TD			289.1 N		65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					578.2 N	I	130	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature:



ROLL #: G17F003589	LOT #:	#: HHK820440		LINEF	R TYPE	:			60) HD	MICROS	PIKE
		METRIC	El	NGLISH					MET	RIC	ENGLI	SH
Thickness Moasurement	MIN:	1.4 mm		54 m	il		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		60 m	il			Length:	164.594	1 m	540	feet
(Modified)	AVE:	1.4 mm		57 m	il			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		A	Тор						.6	5 mm	20	6 mil
ASTM D7466		Average	Bottom	I					.84	4 mm	33	3 mil
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/cc
MFI ASTM D1238 COND. E					•	14.0					-	•
Grade: K307		Melt Flow	Index 19	OC/216	0g -	g/10 r	nın				.2	2
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1
		Average St	rongth G	Viold	Ν	ЛD	35	N/mm	201	ррі	3586	psi
Tensile Strength ASTM D6693		Average St	i engli e	y neiu	Т	D	37	N/mm	214	ррі	3837	psi
(2 inches / minute)					Ν	ЛD	45	N/mm	257	ррі	4582	psi
		Average St	rength @	Ø Break	T	D	43	N/mm	244	ррі	4389	psi
Tensile Elongation					Ν	ИD					23	8 %
ASTM D6693		Average El	ongation	@ Yiel	d т	D					16	; %
(2 inches / minute)					Ν	<i>4</i> D					462	%
Lo = 2.0" Break		Average El	ongation	@Brea	ак " т	םי.					-102 615	: %
						45					015	
Tear Resistance		Average Te	ear Resist	tance	N	/ID			266.9 ľ		60	IDS.
ASTIVI D1004 (Modified)					T	D			289.1	N	65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						578.2 N	N	130	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature:



ROLL #: G17F003590	LOT #:	OT #: HHK820440 LINER TY				E:			60) HD	MICROS	PIKE
		METRIC	EN	GLISI	н				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm	!	55 n	nil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm	(60 n	nil			Length:	164.594	4 m	540	feet
(Modified)	AVE:	1.4 mm	!	57 n	nil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		Average	Тор						.64	4 mm	2	5 mil
ASTM D7466		Average	Bottom						.84	4 mm	3	3 mil
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/cc
MFI ASTM D1238 COND. E				o / 0 4	<u> </u>	14.0						•
Grade: K307		Melt Flow	Index 190	C/21	60 g -	g/10 r	nın				.2	2
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1
		A		\/: - -	1	MD	35	N/mm	201	. ppi	3586	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rieic	1	TD	37	N/mm	214	ppi	3837	psi
(2 inches / minute)						MD	45	N/mm	257	ppi	4582	psi
		Average St	rengtn @	вгеа	K	TD	43	N/mm	244	, ppi	4389	psi
Tensile Flongation						MD					23	8 %
ASTM D6693		Average El	ongation (@ Yie	eld	TD					16	i %
(2 inches / minute)											467	0/
LO = 1.3 Yield LO = 2.0" Break		Average El	ongation (@Bre	eak						402	. 70 • 0/
											013) 70
Tear Resistance		Average Te	ear Resista	ince		MD			266.9	N	60	lbs.
ASTM D1004 (Modified)		0				TD			289.1 N	N	65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						578.2 N	N	130	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	<u>9</u> 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature: _____



ROLL #: G17F003591	LOT #:	HHK820	0440	LINER T	YPE:			60	HD	MICROS	PIKE
		METRIC	EN	IGLISH				METF	۱C	ENGLI	SH
Thickness Moasurement	MIN:	1.3 mm		53 mil		Th	ickness:	1.52	. mm	60	mil
ASTM D5994	MAX:	1.6 mm		62 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.4 mm		57 mil			Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										168 min	nutes
Asperity		A	Тор					.66	mm	20	5 mil
ASTM D7466		Average	Bottom					.86	mm	34	1 mil
Specific Gravity ASTM D792		Average De	ensity							.94	5 g/cc
MFI ASTM D1238 COND. E					11.0						
Grade: K307		Melt Flow	Index 190	JC/2160	g - g/10) min				.22	2
Carbon Black Content ASTM D	4218	Range							2.	5 %	
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	r y 1
		A			MD	35	N/mm	201	ррі	3586	psi
Tensile Strength ASTM D6693		Average St	rengtn @	, viela	TD	37	N/mm	214	ррі	3837	psi
(2 inches / minute)		A			MD	45	N/mm	257	ррі	4582	psi
		Average St	rengtn @) Break	TD	43	N/mm	244	ррі	4389	psi
Tensile Elongation					MD					23	%
ASTM D6693		Average El	ongation	@ Yield	TD					16	%
(2 inches / minute)					MD					462	%
Lo = 2.0" Break		Average El	ongation	@Break						402 615	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
										015	
Tear Resistance		Average Te	ear Resist	ance	MD			266.9 N		60	lbs.
ASTIVI D1004 (Modified)					TD			289.1 N		65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					578.2 N]	130	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/4/2017

OA#: 38383

Signature:



ROLL #: G17F003592	LOT #:)T #: HHK820440 LINER				E:			6) HC	MICROS	PIKE
		METRIC	EN	GLISH	4				MET	RIC	ENGL	SH
Thickness	MIN:	1.4 mm	!	54 n	nil		Th	ickness:	1.5	2 mm	n 60	mil
ASTM D5994	MAX:	1.6 mm	(63 n	nil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm	!	59 n	nil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		A	Тор						.7	1 mm	1 2	8 mil
ASTM D7466		Average	Bottom						.8	1 mm	n 3	2 mil
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/cc
MFI ASTM D1238 COND. E				o /o /	~ ~	110					_	_
Grade: K307		Melt Flow	Index 190	C/21	60g -	g/10	min				.2	2
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1
		A	man ath O	\/:	1	MD	35	N/mm	201	L ppi	3586	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rieid		TD	37	N/mm	214	l ppi	3837	psi
(2 inches / minute)				_		MD	45	N/mm	257	p pi	4582	psi
		Average St	rength @	Brea	K	TD	43	N/mm	244	l ppi	4389	psi
Tensile Flongation						MD					23	3 %
ASTM D6693		Average El	ongation (@ Yie	eld	TD					16	5 %
(2 inches / minute)											463	0/
$LO = 1.3^{\circ}$ Yield $LO = 2.0^{\circ}$ Break		Average El	ongation (@Bre	ak						402	. 70 • 0/
						ID					615) %
Tear Resistance		Average Te	ear Resista	ince		MD			266.9	N	60	lbs.
ASTM D1004 (Modified)		, werege re		ince		TD			289.1	N	65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						578.2	N	130	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003593	LOT #:	HHK820	0440	LINE	ER TYP	PE:			60) HD	MICROS	PIKE
		METRIC	El	NGLIS	н				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		54 r	mil		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		63 r	mil			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		58 r	nil			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		•	Тор						.6	6 mm	20	6 mil
ASTM D7466		Average	Bottom	า					.8	1 mm	32	2 mil
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/cc
MFI ASTM D1238 COND. E			1.1. 10	00/04	60	. 14.0						
Grade: K307		Melt Flow	Index 19	UC/21	.60 g ·	- g/10	min				.2.	2
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTM D559		Category									10 in Catego	ry 1
						MD	26	N/mm	147	ppi	2413	psi
Tensile Strength		Average St	rengtn @	y Yield	a	TD	27	N/mm	154	l ppi	2707	psi
(2 inches / minute)						MD	37	N/mm	200	nni	3438	nsi
		Average St	rength @	9 Brea	ak		22	N/mm	196	nni	3266	nsi
							55	•••	100	, bbi	5200	p31
Tensile Elongation		Average Fl	ongation	@ Yi	eld	MD					17	%
ASTM D6693 (2 inches / minute)		, we age in	ongation		ciu	TD					15	%
Lo = 1.3" Yield		Avorago El	ongotion		oak	MD					473	\$ %
Lo = 2.0" Break		Average Li	ongation	ш	eak	TD					587	' %
Tear Resistance						MD			284.7	N	64	lbs.
ASTM D1004 (Modified)		Average Te	ear Resist	tance		TD			284.7 [N	64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						564.9 i	N	127	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature: _____


ROLL #: G17F003594	LOT #:	#: HHK820440 LINER 1			YPE:			60) HD	MICROS	PIKE
		METRIC	ENG	LISH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm	55	i mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm	62	! mil			Length:	164.594	1 m	540	feet
(Modified)	AVE:	1.5 mm	58	3 mil			Width:	7.01	Lm	23	feet
OIT(Standard) ASTM D 3895										168 min	nutes
Asperity		Average	Тор					.69) mm	27	7 mil
ASTM D7466		Average	Bottom					.84	1 mm	33	3 mil
Specific Gravity ASTM D792		Average De	nsity							.94	5 g/cc
MFI ASTM D1238 COND. E			1 4000	124.60	14.0						_
Grade: K307		Melt Flow I	ndex 190C,	2160 §	g - g/10	min				.2.	2
Carbon Black Content ASTM D	94218	Range								2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	r y 1
		Augusta Chu			MD	26	N/mm	147	ррі	2413	psi
Tensile Strength		Average Str	ength @ Y	eld	TD	27	N/mm	154	ррі	2707	psi
(2 inches / minute)					MD	37	N/mm	209	ррі	3438	psi
		Average Str	ength @ B	reak	TD	33	N/mm	186	ppi	3266	psi
Tonsilo Flongation					MD					17	%
ASTM D6693		Average Elc	ongation @	Yield	TD					15	%
(2 inches / minute)											
Lo = 1.3" Yield		Average Elc	ongation @	Break	MD					4/3	%
					ID					587	%
Tear Resistance		Average Te	ar Resistan	re	MD			284.7 N	1	64	lbs.
ASTM D1004 (Modified)		Average res			TD			284.7 N	1	64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	ak Load					564.9 N	١	127	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	30%				500 Hi	rs.	ONGO	ING	

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature:



ROLL #: G17F003595	LOT #:	HHK820	0440	LINER	TYPE:			60) HD	MICROS	PIKE
		METRIC	ENG	GLISH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm	5	55 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm	e	52 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.5 mm	5	58 mil			Width:	7.01	Lm	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		A	Тор					.86	5 mm	34	4 mil
ASTM D7466		Average	Bottom					.64	I mm	2	5 mil
Specific Gravity ASTM D792		Average De	ensity							.94	5 g/cc
MFI ASTM D1238 COND. E					1						_
Grade: K307		Melt Flow	Index 1900	2/2160			.2	2			
Carbon Black Content ASTM D	4218	Range								2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A	nameth O		MD	26	N/mm	147	ррі	2413	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riela	TD	27	N/mm	154	ррі	2707	psi
(2 inches / minute)					MD	37	N/mm	209	ррі	3438	psi
		Average St	rength @	вгеак	TD	33	N/mm	186	ррі	3266	psi
Tensile Elongation					MD					17	%
ASTM D6693		Average Ele	ongation (စ္စ Yield	TD					15	i %
(2 inches / minute)					MD					173	0/
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation (Break						4/3) 70 • 0/
					ID					587	70
Tear Resistance		Average Te	ear Resista	nce	MD			284.7 N	1	64	lbs.
ASTM D1004 (Modified)		0			TD			284.7 N	1	64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					564.9 N	J	127	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%			500 Hr	·s.	ONGC	DING		

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003596	LOT #:	HHK820	0440	LINER T	YPE:			60) HD	MICROS	PIKE
		METRIC	E	NGLISH				METI	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		56 mil		Th	ickness:	1.52	<u>2</u> mm	60	mil
ASTM D5994	MAX:	1.5 mm		60 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.5 mm		58 mil			Width:	7.01	Ĺm	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		A	Тор					.86	5 mm	34	4 mil
ASTM D7466		Average	Bottom					.61	L mm	24	4 mil
Specific Gravity ASTM D792		Average De	ensity							.94	5 g/cc
MFI ASTM D1238 COND. E				00/04/00							-
Grade: K307		Melt Flow	Index 19	UC/2160	g - g/10) min				.2.	2
Carbon Black Content ASTM D	4218	Range								2.8	8%
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A			MD	26	N/mm	147	ррі	2413	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riela	TD	27	N/mm	154	ррі	2707	psi
(2 inches / minute)		A			MD	37	N/mm	209	ррі	3438	psi
		Average St	rengtn @	вгеак	TD	33	N/mm	186	ррі	3266	psi
Tensile Elongation					MD					17	' %
ASTM D6693		Average El	ongation	@ Yield	TD					15	6 %
(2 inches / minute)					MD					473	. %
Lo = 2.0" Break		Average El	ongation	@Break						597	· %
										507	
Tear Resistance		Average Te	ear Resist	ance	MD			284.7 N	1	64	lbs.
ASTM D1004 (Modified)					TD			284.7 N	1	64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					564.9 N	1	127	lbs.
Notched Constant Tensile Load	d	Pass/Fail @	9 30%					500 Hr	·s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature:



ROLL #: G17F003597	LOT #:	HHK820	LINER	TYPE:			60	HD	MICROS	PIKE	
		METRIC	EN	NGLISH				METF	RIC	ENGLI	SH
Thickness Measurement	MIN:	1.4 mm		57 mil		Th	ickness:	1.52	mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		59 mil			Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		Average	Тор					.76	i mm	30	0 mil
ASTM D7466		Average	Bottom	1				.74	mm	29	9 mil
Specific Gravity ASTM D792		Average De	ensity							.94	5 g/cc
MFI ASTM D1238 COND. E				00/04/04		4 Q · ·					
Grade: K307		Melt Flow	Index 190	JC/2160)g - g/	10 min				.2.	2
Carbon Black Content ASTM D	4218	Range								2.8	8%
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		Augus as Ct	nonath G		MD	26	N/mm	147	ррі	2413	psi
Tensile Strength ASTM D6693		Average St	rengtn @	y rield	TD	27	N/mm	154	ррі	2707	psi
(2 inches / minute)		A			MD	37	N/mm	209	ррі	3438	psi
		Average St	rengtn @	вгеак	TD	33	N/mm	186	ррі	3266	psi
Tensile Flongation					MD					17	' %
ASTM D6693		Average El	ongation	@ Yield	^I тр					15	5 %
(2 inches / minute)					МП					172	. 0/
Lo = 1.3 Meid Lo = 2.0" Break		Average Ele	ongation	@Breal	k TD					4/J	· /0
										507	/0
Tear Resistance		Average Te	ear Resist	ance	MD			284.7 N		64	lbs.
ASTM D1004 (Modified)		5			TD			284.7 N		64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					564.9 N		127	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature:



ROLL #: G17F003598	LOT #:	HHK820	0440	LINER	TYPE:			60) HD	MICROS	PIKE
		METRIC	EN	GLISH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm	5	57 mi	I	Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm	e	5 3 mi	I		Length:	164.594	l m	540	feet
(Modified)	AVE:	1.5 mm	5	59 mi	I		Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		A	Тор					.91	l mm	3	6 mil
ASTM D7466		Average	Bottom					.61	l mm	24	4 mil
Specific Gravity ASTM D792		Average De	ensity							.94	5 g/cc
MFI ASTM D1238 COND. E				- /	_						
Grade: K307		Melt Flow	Index 1900	C/2160			.2	2			
Carbon Black Content ASTM D	4218	Range								2.	6 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
			ware ath O	Viold	М	D 26	N/mm	148	ррі	2508	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riela	TD	28	N/mm	161	ррі	2677	psi
(2 inches / minute)					М	D 37	N/mm	209	ррі	3541	psi
		Average St	rength @	вгеак	TD	34	N/mm	194	ррі	3226	psi
Tensile Flongation					М	D				17	%
ASTM D6693		Average El	ongation (@ Yiel	d то	I				16	i %
(2 inches / minute)					N / I	n				151	0/
LO = 1.3 Yield LO = 2.0" Break		Average El	ongation (@Brea	k ^{IVII}					451	. 70
					ID					602	. 70
Tear Resistance		Average Te	ear Resista	nce	MI	D		284.7 N	1	64	lbs.
ASTM D1004 (Modified)		0			TD	1		284.7 N	l	64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					564.9 N	I	127	lbs.
Notched Constant Tensile Load	d	Pass/Fail @	Ø 30%			500 Hr	s.	ONGC	DING		

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature:



ROLL #: G17F003599	LOT #:	HHK820	0440	LINE	ER TYP	PE:			60) HD	MICROS	PIKE
		METRIC	EN	GLIS	н				MET	RIC	ENGL	ISH
Thickness	MIN:	1.4 mm	!	57 r	nil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm	(61 r	mil			Length:	164.594	4 m	540	feet
(Modified)	AVE:	1.5 mm	!	59 r	nil			Width:	7.02	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		Average	Тор						.74	4 mm	2	9 mil
ASTM D7466		Average	Bottom						.64	4 mm	2	5 mil
Specific Gravity ASTM D792		Average De	ensity								.94	5 g/cc
MFI ASTM D1238 COND. E				o /o 4	60	14.0					-	_
Grade: K307		Melt Flow	Index 190	C/21	.60 g ·			.2	2			
Carbon Black Content ASTM D	4218	Range									2.	6 %
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1
		A		V: - I -		MD	26	N/mm	148	ppi	2508	psi
Tensile Strength ASTM D6693		Average St	rength @	YIEI	נ	TD	28	N/mm	161	ррі	2677	psi
(2 inches / minute)				_		MD	37	N/mm	209	ррі	3541	psi
		Average St	rengtn @	Brea	ЭК	TD	34	N/mm	194	ppi	3226	psi
Tensile Elongation						MD					17	/ %
ASTM D6693		Average El	ongation (@ Yi	eld	TD					16	5 %
(2 inches / minute)						MD					461	0/
LO = 1.3 Yield LO = 2.0" Break		Average El	ongation (@Bre	eak						451	0/
						ID					602	<u> 70 </u>
Tear Resistance		Average Te	ear Resista	nce		MD			284.7	N	64	lbs.
ASTM D1004 (Modified)		0				TD			284.7	N	64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						564.9 N	N	127	lbs.
Notched Constant Tensile Load	d	Pass/Fail @				500 H	rs.	ONGC	DING			

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature:



ROLL #: G17F003600	LOT #:	#: HHK820790 LIN			ER TYP	PE:			60) HD	MICROS	PIKE
		METRIC	EN	GLIS	н				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm	!	56 r	nil		Th	ickness:	1.52	2 mm	6 0	mil
ASTM D5994	MAX:	1.5 mm		61 r	nil			Length:	164.594	4 m	540	feet
(Modified)	AVE:	1.5 mm	!	59 r	nil			Width:	7.02	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		A	Тор						.70	6 mm) 3 (0 mil
ASTM D7466		Average	Bottom						.6	6 mm	1 2	6 mil
Specific Gravity ASTM D792		Average De	ensity								.94	7 g/cc
MFI ASTM D1238 COND. E				o /o /	~~	11.0					_	_
Grade: K307		Melt Flow	.60 g ·			.2	3					
Carbon Black Content ASTM D	4218	Range									2.	6 %
Carbon Black Dispersion ASTM	1 D5596	Category									10 in Catego	ry 1
			reacth @	Viala	J	MD	26	N/mm	148	ррі	2508	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rieid	1	TD	28	N/mm	161	ррі	2677	psi
(2 inches / minute)				_		MD	37	N/mm	209	ррі	3541	psi
		Average St	rengtn @	Brea	IK	TD	34	N/mm	194	ррі	3226	psi
Tensile Flongation						MD					17	%
ASTM D6693		Average El	ongation (@ Yi	eld	TD					16	i %
(2 inches / minute)						MD					151	0/
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation (@Bre	eak						451	. 70
						ID					602	. 70
Tear Resistance		Average Te	ear Resista	ance		MD			284.7	N	64	lbs.
ASTM D1004 (Modified)		0				TD			284.7	N	64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						564.9 N	N	127	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%				500 H	rs.	ONGC	DING		

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature:



ROLL #: G17F003601	LOT #:	HHK820	0790	LINER T	YPE:			60) HD	MICROS	PIKE
		METRIC	EN	IGLISH				METI	RIC	ENGLI	SH
Thickness Moasurement	MIN:	1.4 mm		57 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.5 mm		58 mil			Width:	7.01	۱m	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		A	Тор					.64	l mm	2	5 mil
ASTM D7466		Average	Bottom					.81	L mm	32	2 mil
Specific Gravity ASTM D792		Average De	ensity							.94	7 g/cc
MFI ASTM D1238 COND. E			1.1. 100								•
Grade: K307		Melt Flow	Index 190	IC/2160 {	g - g/10	min				.2:	3
Carbon Black Content ASTM D	4218	Range								2.!	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		Average St	rongth @	Viold	MD	26	N/mm	148	ррі	2508	psi
Tensile Strength ASTM D6693		Average St	rengti @	neiu	TD	28	N/mm	161	ррі	2677	psi
(2 inches / minute)					MD	37	N/mm	209	ррі	3541	psi
		Average St	rength @	Вгеак	TD	34	N/mm	194	ррі	3226	psi
Tensile Elongation					MD					17	' %
ASTM D6693		Average El	ongation	@ Yield	TD					16	i %
(2 inches / minute)					MD					451	%
Lo = 2.0" Break		Average El	ongation	@Break						602	. %
										002	
Tear Resistance		Average Te	ear Resist	ance	MD			284.7		64	lbs.
ASTIVI D1004 (Modified)					TD			284.7 N	l	64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					564.9 N	I	127	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	·S.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/5/2017

OA#: 38383

Signature: _____



ROLL #: G17F003602	LOT #:	HHK820	0790	LINER T	YPE:			60) HD	MICROS	PIKE
		METRIC	EN	NGLISH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		55 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		62 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.5 mm		59 mil			Width:	7.01	L m	23	feet
OIT(Standard) ASTM D 3895										168 min	nutes
Asperity		A	Тор					.66	5 mm	20	6 mil
ASTM D7466		Average	Bottom	1				.84	l mm	33	3 mil
Specific Gravity ASTM D792		Average De	ensity							.947	7 g/cc
MFI ASTM D1238 COND. E				00/04/00							•
Grade: K307		Melt Flow	Index 190	JC/2160	g - g/10	min				.2:	3
Carbon Black Content ASTM D	4218	Range								2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
			nonath G	Viold	MD	26	N/mm	148	ррі	2508	psi
Tensile Strength ASTM D6693		Average St	rengtn @) field	TD	28	N/mm	161	ррі	2677	psi
(2 inches / minute)		A			MD	37	N/mm	209	ррі	3541	psi
		Average St	rengtn @) Break	TD	34	N/mm	194	ррі	3226	psi
Tensile Elongation					MD					17	' %
ASTM D6693		Average El	ongation	@ Yield	TD					16	i %
(2 inches / minute)					МП					/151	%
Lo = 2.0" Break		Average El	ongation	@Break						4J1 602	. %
										002	
Tear Resistance		Average Te	ear Resist	ance	MD			284.7		64	lbs.
ASTIVI D1004 (Modified)					TD			284.7 N		64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					564.9 N	I	127	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003603	LOT #:	HHK820	LINER	TYPE	1			6	0 H C	MICROS	PII	KE	
		METRIC	EN	NGLISH					MET	RIC	ENGL	SH	
Thickness	MIN:	1.4 mm		54 m	il	-	Thi	ckness:	1.5	2 mm	n 60	mi	il
ASTM D5994	MAX:	1.6 mm		62 m	il			Length:	164.59	4 m	540	fee	et
(Modified)	AVE:	1.5 mm		58 m	il			Width:	7.0	1 m	23	fee	et
OIT(Standard) ASTM D 3895											168 mir	nute	es
Asperity		A	Тор						.6	1 mm	ז 2	4 m	nil
ASTM D7466		Average	Bottom						.8	9 mm	n 3	5 m	nil
Specific Gravity ASTM D792		Average De	ensity								.94	7 g	cc/
MFI ASTM D1238 COND. E				00/040	0	40						•	
Grade: K307		Melt Flow	Index 19	UC/216	0g -	g/10 mir	ו				.2	3	
Carbon Black Content ASTM D	4218	Range									2.	6 %	6
Carbon Black Dispersion ASTM	I D5596	Category									10 in Catego	ry 1	L
		Average St	rongth @	Viold	N	ID 3	37	N/mm	210) ppi	3491	ps	si
Tensile Strength ASTM D6693		Average St	rengti (d	rielu	TI	D 3	39	N/mm	223	B ppi	3719	ps	si
(2 inches / minute)		A			N		17	N/mm	267	7 ppi	4444	ps	si
		Average St	rength @	Break	TI	2	13	N/mm	247	7 ppi	4135	ps	si
Tensile Elongation					N	ID					25	; %	6
ASTM D6693		Average El	ongation	@ Yiel	^d ті	C					17	%	6
(2 inches / minute)					N	חו					450) %	6
Lo = 2.0" Break		Average El	ongation	@Brea	ak '' ті	טו					587	, <u> </u>	6
									242 5				-
Tear Resistance		Average Te	ear Resist	ance	IV				342.5			al u	S .
)			346.9	N	78	Ib	S.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						569.3	N	128	lb	s.
Notched Constant Tensile Load ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGC)IN(G

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/5/2017

OA#: 38383

Signature: _____



ROLL #: G17F003604	LOT #:	HHK820	LINER	TYPE:			60	HD	MICROS	PIKE	
		METRIC	EN	NGLISH				METR	lC	ENGLI	SH
Thickness Moasurement	MIN:	1.4 mm		57 mi		Th	ickness:	1.52	mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 mi	l		Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		59 mi			Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										168 min	nutes
Asperity		A	Тор					.69	mm	27	7 mil
ASTM D7466		Average	Bottom	l				.84	mm	33	3 mil
Specific Gravity ASTM D792		Average De	ensity							.947	7 g/cc
MFI ASTM D1238 COND. E						40					_
Grade: K307		Melt Flow	Index 19	UC/2160)g - g/	10 min				.2:	5
Carbon Black Content ASTM D	4218	Range								2.6	5%
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	r y 1
					MD	37	N/mm	210	ррі	3491	psi
Tensile Strength		Average St	rengtn @	YIEId	TD	39	N/mm	223	ррі	3719	psi
(2 inches / minute)					MD	47	N/mm	267	ррі	4444	psi
		Average St	rength @	Break	TD	43	N/mm	247	ррі	4135	psi
Tensile Flongation					MD					25	%
ASTM D6693		Average El	ongation	@ Yield	^н тр					17	%
(2 inches / minute)										450	
Lo = 1.3" Yield Lo = 2.0" Break		Average Ele	ongation	@Brea	k ^{IVID}					459	%
					ID					587	%
Tear Resistance		Average Te	ar Resist	ance	MD			342.5 N		77	lbs.
ASTM D1004 (Modified)		/weruge re		unce	TD			346.9 N		78	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					569.3 N		128	lbs.
Notched Constant Tensile Load ASTM D5397	d	Pass/Fail @	9 30%					500 Hr:	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/5/2017

OA#: **38383**

Signature:



ROLL #: G17F003605	LOT #:	HHK820	0790	LINER T	YPE:			60) HD	MICROS	PIKE
		METRIC	EN	NGLISH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		55 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm		63 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.5 mm		58 mil			Width:	7.01	L m	23	feet
OIT(Standard) ASTM D 3895										168 min	nutes
Asperity		Auerago	Тор					.66	5 mm	20	5 mil
ASTM D7466		Average	Bottom	1				.86	5 mm	34	1 mil
Specific Gravity ASTM D792		Average De	ensity							.947	7 g/cc
MFI ASTM D1238 COND. E				00/04/00							-
Grade: K307		Melt Flow	Index 190	JC/2160 §	g - g/10	min				.2:	3
Carbon Black Content ASTM D	4218	Range								2.6	5%
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	r y 1
			nonath G	Viold	MD	37	N/mm	210	ррі	3491	psi
Tensile Strength ASTM D6693		Average St	rengtn @) field	TD	39	N/mm	223	ррі	3719	psi
(2 inches / minute)		A			MD	47	N/mm	267	ррі	4444	psi
		Average St	rengtn @	Break	TD	43	N/mm	247	ррі	4135	psi
Tensile Elongation					MD					25	%
ASTM D6693		Average El	ongation	@ Yield	TD					17	%
(2 inches / minute)					MD					150	%
Lo = 1.3 Held Lo = 2.0" Break		Average El	ongation	@Break						4JJ E07	/0
										507	/0
Tear Resistance		Average Te	ear Resist	ance	MD			342.5 N	l	77	lbs.
ASTM D1004 (Modified)		5			TD			346.9 N	l	78	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					569.3 N	I	128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature: _____



ROLL #: G17F003606	LOT #:	#: HHK820790 LII			ТҮРЕ	:			60) HC	MICROS	PIKE
		METRIC	EN	GLISH					MET	RIC	ENGL	ISH
Thickness	MIN:	1.4 mm	5	56 mi	il		Thi	ckness:	1.5	2 mm	n 60	mil
ASTM D5994	MAX:	1.5 mm	e	51 mi	il			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm	5	58 mi	il			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		Auerago	Тор						.5	8 mm	ו 2	3 mil
ASTM D7466		Average	Bottom						.8	1 mm	1 3	2 mil
Specific Gravity ASTM D792		Average De	ensity								.94	7 g/cc
MFI ASTM D1238 COND. E				0/04/0	•	400					-	-
Grade: K307		Melt Flow	Index 1900	C/216	0g -	g/10 mir	n				.2	3
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTM	1 D5596	Category									10 in Catego	ry 1
		A	nameth O	V: a l al	Ν	1D 3	37	N/mm	210) ppi	3491	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riela	Т	D :	39	N/mm	223	ррі	3719	psi
(2 inches / minute)					Ν	1D 4	47	N/mm	267	p pi	4444	psi
		Average St	rength @	вгеак	Т	D 4	43	N/mm	247	ppi	4135	psi
Tensile Elongation					Ν	1D					25	5 %
ASTM D6693		Average El	ongation (@ Yiel	^d т	D					17	7 %
(2 inches / minute)					N	חו					150	<u>%</u>
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation (@Brea	ik ^{IV}	שו					405) 70 7 0/
					- 1	J					567	70
Tear Resistance		Average Te	ear Resista	nce	N	1D			342.5	N	77	lbs.
ASTM D1004 (Modified)		0			Т	D			346.9	N	78	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						569.3	N	128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%				500 H	rs.	ONGC	DING		

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/6/2017

OA#: **38383**

Signature: _____



ROLL #: G17F003607	LOT #:	HHK820	LINER	R TYPE	:			6	0 H C	MICROS	PIKE	
		METRIC	EN	NGLISH					MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		56 m	il		Th	ickness:	1.5	2 mm	n 60	mil
ASTM D5994	MAX:	1.6 mm		62 m	il			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		59 m	il			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		A	Тор						.6	1 mm	ו 2 4	4 mil
ASTM D7466		Average	Bottom	1					.7	9 mm	n 3	1 mil
Specific Gravity ASTM D792		Average De	ensity								.94	7 g/cc
MFI ASTM D1238 COND. E				00/040	0	110						-
Grade: K307		Melt Flow	Index 19	JC/216	0g -	g/10 m	IN				.2	3
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTN	I D5596	Category									10 in Catego	ry 1
		A			N	1D	37	N/mm	210) ppi	3491	psi
Tensile Strength ASTM D6693		Average St	rengtn @) field	T	D	39	N/mm	223	B ppi	3719	psi
(2 inches / minute)		A			Ν	1D	47	N/mm	267	7 ppi	4444	psi
		Average St	rengtn @) Break	T	D	43	N/mm	247	7 ppi	4135	psi
Tensile Elongation					N	1D					25	i %
ASTM D6693		Average El	ongation	@ Yiel	d T	D					17	%
(2 inches / minute)					N	חו					450	%
Lo = 2.0" Break		Average El	ongation	@Brea	ak ''	קו					587	, %
									242 5			
Tear Resistance		Average Te	ear Resist	ance	IV				342.5	N	//	IDS.
ASTIM D1004 (Modified)					T	D			346.9	N	78	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						569.3	N	128	lbs.
Notched Constant Tensile Load ASTM D5397	d	Pass/Fail @	9 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature:



ROLL #: G17F003608	LOT #:	HHK820	0790	LINER T	YPE:			60) HD	MICROS	PIKE
		METRIC	EN	IGLISH				MET	RIC	ENGLI	SH
Thickness Measurement	MIN:	1.4 mm		57 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.5 mm		59 mil			Width:	7.01	Lm	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		Average	Тор					.81	l mm	32	2 mil
ASTM D7466		Average	Bottom					.71	L mm	23	8 mil
Specific Gravity ASTM D792		Average De	ensity							.94	7 g/cc
MFI ASTM D1238 COND. E			1.1. 100	00/04/00							•
Grade: K307		Melt Flow	Index 190	JC/2160	g - g/10	min				.2	3
Carbon Black Content ASTM D	4218	Range								2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		Augus as Ct	ronath @	Viold	MD	26	N/mm	148	ррі	2473	psi
Tensile Strength ASTM D6693		Average St	rengtn @	' Yield	TD	28	N/mm	161	ррі	2728	psi
(2 inches / minute)		A	na na stha O	Durali	MD	33	N/mm	188	ррі	3153	psi
		Average St	rengtn @	, вгеак	TD	31	N/mm	177	ррі	3004	psi
Tensile Elongation					MD					16	i %
ASTM D6693		Average El	ongation	@ Yield	TD					15	5 %
(2 inches / minute)					МП					/20	0/
Lo = 1.3 Meid Lo = 2.0" Break		Average Ele	ongation	@Break						435	· /0
										555	
Tear Resistance		Average Te	ear Resist	ance	MD			284.7 N	1	64	lbs.
ASTM D1004 (Modified)		5			TD			289.1 N	1	65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					569.3 N	J	128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	·s.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature:



ROLL #: G17F003609	LOT #:	#: HHK820790 LINER			YPE:			60) HD	MICROS	PIKE
		METRIC	ENG	LISH				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm	5	7 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.6 mm	63	3 mil			Length:	164.594	l m	540	feet
(Modified)	AVE:	1.5 mm	5	9 mil			Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		Auerago	Тор					.84	l mm	3	3 mil
ASTM D7466		Average	Bottom					.69	mm	2	7 mil
Specific Gravity ASTM D792		Average De	ensity							.94	7 g/cc
MFI ASTM D1238 COND. E				124.00	14.0						•
Grade: K307		Melt Flow	Index 190C	/2160 §	g - g/101	min				.2	3
Carbon Black Content ASTM D	4218	Range								2.	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A		" - -	MD	26	N/mm	148	ррі	2473	psi
Tensile Strength ASTM D6693		Average St	rengtn @ Y	ieid	TD	28	N/mm	161	ррі	2728	psi
(2 inches / minute)					MD	33	N/mm	188	ррі	3153	psi
		Average St	rengtn @ B	reaк	TD	31	N/mm	177	ррі	3004	psi
Tensile Flongation					MD					16	i %
ASTM D6693		Average El	ongation @) Yield	TD					15	i %
(2 inches / minute)					MD					120	0/
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation @	Break						433	• 0/
					ID					200) 70
Tear Resistance		Average Te	ice	MD			284.7 N	1	64	lbs.	
ASTM D1004 (Modified)		0			TD			289.1 N	l	65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					569.3 N	I	128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%				500 Hr	s.	ONGC	DING	

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature: _____



ROLL #: G17F003610	LOT #:	E HHK820790			ER TYF	PE:			60) HD	MICROS	PIKE
		METRIC	El	NGLIS	5H				MET	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		54	mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		61	mil			Length:	164.594	1 m	540	feet
(Modified)	AVE:	1.5 mm		58	mil			Width:	7.01	Lm	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		A	Тор						.84	1 mm	33	3 mil
ASTM D7466		Average	Bottom	۱					.66	5 mm	20	6 mil
Specific Gravity ASTM D792		Average De	ensity								.94	7 g/cc
MFI ASTM D1238 COND. E			1.1. 10	00/0	1.60	. /10						-
Grade: K307		Melt Flow	Index 19	UC/2	160 g ·	- g/10	min				.2:	3
Carbon Black Content ASTM D	4218	Range									2.	5 %
Carbon Black Dispersion ASTM	1 D5596	Category									10 in Catego	ry 1
		A		5 V:-1	-1	MD	26	N/mm	148	ррі	2473	psi
Tensile Strength		Average St	rengtn @	y riei	a	TD	28	N/mm	161	ррі	2728	psi
(2 inches / minute)						MD	33	N/mm	188	iqq	3153	psi
		Average St	rength @	D Bre	ak	TD	31	N/mm	177	iqq	3004	, psi
-						МП					16	. %
Iensile Elongation		Average El	ongation	ı @ Yi	ield						10	. %
(2 inches / minute)											15	, 70
Lo = 1.3" Yield		Average El	ongation	n @Br	eak	MD					439) %
Lo = 2.0" Break		C C	C	_		TD					555	%
Tear Resistance		· · · · · ·	D			MD			284.7 N	J	64	lbs.
ASTM D1004 (Modified)		Average Ie	ear Resist	tance		TD			289.1 N	١	65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						569.3 N	J	128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%						500 Hı	rs.	ONGO	DING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature: _____



ROLL #: G17F003611	LOT #:	#: HHK820790 LINER 1		R TYPE:	:		60	HD	MICROS	PIKE	
		METRIC	EN	GLISH				METE	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		54 m	il	т	hickness:	1.52	: mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 m	il		Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		58 m	il		Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										168 min	nutes
Asperity		A	Тор					.84	mm	33	3 mil
ASTM D7466		Average	Bottom					.66	i mm	20	5 mil
Specific Gravity ASTM D792		Average De	ensity							.947	7 g/cc
MFI ASTM D1238 COND. E					•	40					
Grade: K307		Melt Flow	Index 190	C/216	Ug - į	g/10 min				.2:	5
Carbon Black Content ASTM D	4218	Range								2.0	5 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	r y 1
		A			Μ	ID 2	5 N/mm	148	ррі	2473	psi
Tensile Strength		Average St	rengtn @	Yield	т	2	3 N/mm	161	ррі	2728	psi
(2 inches / minute)					Μ	ID 3 3	B N/mm	188	ppi	3153	psi
		Average St	rength @	Break	т) 3	L N/mm	177	ppi	3004	psi
							,	1,,	66.	16	0/
Tensile Elongation		Average Ele	ongation	@ Yiel	d _T	טו ר				10	70 70
(2 inches / minute)		_	-		11	J				15	70
Lo = 1.3" Yield		Average El	ongation	@Brea	ak M	ID				439	%
Lo = 2.0" Break			0	C	ΤI)				555	%
Tear Resistance		· · · · ·			Μ	ID		284.7 N	1	64	lbs.
ASTM D1004 (Modified)		Average Le	ear Resista	ince	т	C		289.1 N	i	65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					569.3 N	I	128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	<u>9</u> 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature: _____



ROLL #: G17F003612	LOT #:	#: HHK820790 LIN			R TYP	E:			60) HD	MICROS	PIKE
		METRIC	EN	GLISH					MET	RIC	ENGL	ISH
Thickness	MIN:	1.4 mm	ţ	55 m	il		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm	(51 m	il			Length:	164.594	1 m	540	feet
(Modified)	AVE:	1.5 mm	ŗ	58 m	il			Width:	7.01	Lm	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		Average	Тор						.84	1 mm	3	3 mil
ASTM D7466		Average	Bottom						.64	1 mm	2	5 mil
Specific Gravity ASTM D792		Average De	ensity								.94	7 g/cc
MFI ASTM D1238 COND. E				0/04/0		14.0					-	-
Grade: K307		Melt Flow	Index 190	C/216	0g -	g/10 r	nın				.2	3
Carbon Black Content ASTM D	4218	Range									2.	6 %
Carbon Black Dispersion ASTN	1 D5596	Category									10 in Catego	ry 1
		A	and the O	\/: _ _	I	MD	26	N/mm	148	ррі	2473	psi
Tensile Strength ASTM D6693		Average St	rength @	riela	٦	ΓD	28	N/mm	161	ррі	2728	psi
(2 inches / minute)					1	MD	33	N/mm	188	ррі	3153	psi
		Average St	rength @	вгеак	1	ГD	31	N/mm	177	ррі	3004	psi
Tensile Elongation					I	MD					16	5 %
ASTM D6693		Average El	ongation (@ Yiel	d -	ГD					15	5 %
(2 inches / minute)					,	MD					120	<u>%</u>
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation (@Brea	ak '						455	• 0/
						IJ					200) 70
Tear Resistance		Average Te	ear Resista	nce	I	MD			284.7 N	١	64	lbs.
ASTM D1004 (Modified)		0				ΓD			289.1 N	١	65	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						569.3 N	J	128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	<u>9</u> 30%				500 Hi	rs.	ONGC	DING		

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature: _____



ROLL #: G17F003613	LOT #:	HHK820	LINE	R TYPE	:			6) HD	MICROS	PIKE	
		METRIC	Eľ	NGLISH	l				MET	RIC	ENGL	SH
Thickness	MIN:	1.4 mm		57 m	il		Th	ickness:	1.5	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm		60 m	il			Length:	164.59	4 m	540	feet
(Modified)	AVE:	1.5 mm		58 m	il			Width:	7.0	1 m	23	feet
OIT(Standard) ASTM D 3895											168 mir	nutes
Asperity		A	Тор						.8	4 mm	3	3 mil
ASTM D7466		Average	Bottom	I					.6	6 mm	2	6 mil
Specific Gravity ASTM D792		Average De	ensity								.94	7 g/cc
MFI ASTM D1238 COND. E				00/04/0		14.0					-	
Grade: K307		Neit Flow	Index 19	0C/216	50 g -	g/10 r	nın				.2	3
Carbon Black Content ASTM D	4218	Range									2.	6 %
Carbon Black Dispersion ASTM	D5596	Category									10 in Catego	ry 1
		A			Ν	ΛD	25	N/mm	144	l ppi	2448	psi
Tensile Strength ASTM D6693		Average St	rengtn @	y riela	Т	D	29	N/mm	163	ррі	2797	psi
(2 inches / minute)		A			Ν	ΛD	34	N/mm	196	; ppi	3327	psi
		Average St	rengtn @	v Break	с Т	D	31	N/mm	178	s ppi	3055	psi
Tensile Elongation					Ν	ЛD					16	; %
ASTM D6693		Average El	ongation	@ Yie	ld т	D					15	; %
(2 inches / minute)					N	/ D					425	. %
Lo = 2.0" Break		Average El	ongation	@Brea	ak '' T	סו <i>י</i> ח					723	, %
						40			202 5			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Tear Resistance		Average Te	ear Resist	tance	N				302.5	N	68	IDS.
					I	D			284.7	N	64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load						569.3	N	128	lbs.
Notched Constant Tensile Load ASTM D5397	b	Pass/Fail @	9 30%						500 H	rs.	ONGC	DING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature: _____



ROLL #: G17F003614	LOT #:	HHK820	0790	LINER 7	YPE:			60	HD	MICROS	PIKE
		METRIC	EN	NGLISH				METF	RIC	ENGLI	SH
Thickness Measurement	MIN:	1.4 mm		55 mil		Th	ickness:	1.52	mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		59 mil			Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		A	Тор					.86	mm	34	4 mil
ASTM D7466		Average	Bottom	1				.66	mm	20	6 mil
Specific Gravity ASTM D792		Average De	ensity							.94	7 g/cc
MFI ASTM D1238 COND. E				00/04/00							•
Grade: K307		Melt Flow	Index 190	JC/2160	g - g/10) min				.2:	3
Carbon Black Content ASTM D	4218	Range								2.0	6 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
			nonath G	Viold	MD	25	N/mm	144	ррі	2448	psi
Tensile Strength ASTM D6693		Average St	rengtn @) field	TD	29	N/mm	163	ррі	2797	psi
(2 inches / minute)		A			MD	34	N/mm	196	ррі	3327	psi
		Average St	rengtn @) Break	TD	31	N/mm	178	ррі	3055	psi
Tensile Flongation					MD					16	i %
ASTM D6693		Average El	ongation	@ Yield	TD					15	5 %
(2 inches / minute)					МП					125	. %
Lo = 1.3 Meid Lo = 2.0" Break		Average El	ongation	@Break						425	· /0
										554	, /0
Tear Resistance		Average Te	ear Resist	ance	MD			302.5 N		68	lbs.
ASTM D1004 (Modified)		5			TD			284.7 N		64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					569.3 N		128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	NIG

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature:



ROLL #: G17F003615	LOT #:	HHK820	LINER	TYPE:			60	HD	MICROS	PIKE	
		METRIC	EN	IGLISH				METR	IC	ENGLI	SH
Thickness	MIN:	1.4 mm		55 mil		Th	ickness:	1.52	mm	60	mil
ASTM D5994	MAX:	1.6 mm		62 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		59 mil			Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										168 min	nutes
Asperity		A	Тор					.86	mm	34	1 mil
ASTM D7466		Average	Bottom					.66	mm	20	5 mil
Specific Gravity ASTM D792		Average De	ensity							.947	7 g/cc
MFI ASTM D1238 COND. E						0					_
Grade: K307		Melt Flow	Index 190)C/2160	g - g/1	0 min				.2:	5
Carbon Black Content ASTM D	4218	Range								2.0	5%
Carbon Black Dispersion ASTM	I D5596	Category								10 in Catego	r y 1
		A	and the other		MD	25	N/mm	144	ррі	2448	psi
Tensile Strength ASTM D6693		Average St	rengtn @	rield	TD	29	N/mm	163	ррі	2797	psi
(2 inches / minute)		A		Dural	MD	34	N/mm	196	ррі	3327	psi
		Average St	rength @	вгеак	TD	31	N/mm	178	ррі	3055	psi
Tensile Elongation					MD					16	%
ASTM D6693		Average El	ongation	@ Yield	TD					15	%
(2 inches / minute)					МП					125	0/
Lo = 2.0" Break		Average El	ongation	@Break						425	70 0/
										554	/0
Tear Resistance		Average Te	ear Resist	ance	MD			302.5 N		68	lbs.
ASTM D1004 (Modified)					TD			284.7 N		64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					569.3 N		128	lbs.
Notched Constant Tensile Load	d	Pass/Fail @	9 30%					500 Hrs	5.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature: _____



ROLL #: G17F003616	LOT #:	HHK820	0790	LINER 7	ГҮРЕ:			60	HD	MICROS	PIKE
		METRIC	EN	IGLISH				METR	RIC	ENGLI	SH
Thickness Moasurement	MIN:	1.4 mm		56 mil		Th	ickness:	1.52	mm	60	mil
ASTM D5994	MAX:	1.5 mm		61 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm		59 mil			Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		A	Тор					.84	mm	33	3 mil
ASTM D7466		Average	Bottom					.66	mm	20	6 mil
Specific Gravity ASTM D792		Average De	ensity							.94	7 g/cc
MFI ASTM D1238 COND. E			1.1. 100	00/04/00		.					•
Grade: K307		Melt Flow	Index 190	JC/2160	g - g/10	J min				.2:	3
Carbon Black Content ASTM D	4218	Range								2.0	6 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
					MD	25	N/mm	144	ррі	2448	psi
Tensile Strength ASTM D6693		Average St	rengtn @	riela	TD	29	N/mm	163	ррі	2797	psi
(2 inches / minute)		A	na na stha	Durali	MD	34	N/mm	196	ррі	3327	psi
		Average St	rength @	вгеак	TD	31	N/mm	178	ррі	3055	psi
Tensile Elongation					MD					16	i %
ASTM D6693		Average El	ongation	@ Yield	TD					15	5 %
(2 inches / minute)					МП					125	. %
Lo = 2.0" Break		Average El	ongation	@Break						423	· 70
										554	. 70
Tear Resistance		Average Te	ear Resist	ance	MD			302.5 N		68	lbs.
ASTM D1004 (Modified)					TD			284.7 N		64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					569.3 N		128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature: _____



ROLL #: G17F003617	LOT #:	HHK820	0790	LINER T	YPE:			60	HD	MICROS	PIKE
		METRIC	EN	NGLISH				METR	RIC	ENGLI	SH
Thickness	MIN:	1.4 mm		55 mil		Th	ickness:	1.52	mm	60	mil
ASTM D5994	MAX:	1.5 mm		60 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.4 mm		57 mil			Width:	7.01	m	23	feet
OIT(Standard) ASTM D 3895										168 min	nutes
Asperity		A	Тор					.86	mm	34	4 mil
ASTM D7466		Average	Bottom	1				.86	mm	34	4 mil
Specific Gravity ASTM D792		Average De	ensity							.947	7 g/cc
MFI ASTM D1238 COND. E					4.0						
Grade: K307		Melt Flow	Index 190	JC/2160	g - g/10	min				.23	3
Carbon Black Content ASTM D	4218	Range								2.0	6 %
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	ry 1
		A			MD	25	N/mm	144	ррі	2448	psi
Tensile Strength ASTM D6693		Average St	rengtn @) field	TD	29	N/mm	163	ррі	2797	psi
(2 inches / minute)		A			MD	34	N/mm	196	ррі	3327	psi
		Average St	rengtn @) Break	TD	31	N/mm	178	ррі	3055	psi
Tensile Elongation					MD					16	i %
ASTM D6693		Average El	ongation	@ Yield	TD					15	5 %
(2 inches / minute)					МП					125	. %
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation	@Break						423	· /0
										554	, /0
Tear Resistance		Average Te	Average Tear Resistance					302.5 N		68	lbs.
ASTM D1004 (Modified)		5			TD			284.7 N		64	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					569.3 N		128	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	9 30%					500 Hr	s.	ONGO	NIG

Customer:Environmental SpecialtiesPO:25802Destination:Fulton, AR

Production Date: 11/6/2017

OA#: 38383

Signature: _____



ROLL #: G17F003618	LOT #:	HHK820	0790	LINER	ГҮРЕ:			60	HD	MICROS	PIKE
		METRIC	ENG	GLISH				MET	RIC	ENGLI	SH
Thickness Moasurement	MIN:	1.4 mm	5	7 mil		Th	ickness:	1.52	2 mm	60	mil
ASTM D5994	MAX:	1.5 mm	6	i0 mil			Length:	164.594	m	540	feet
(Modified)	AVE:	1.5 mm	5	8 mil			Width:	7.01	. m	23	feet
OIT(Standard) ASTM D 3895										168 mir	nutes
Asperity		Average	Тор					.86	i mm	34	1 mil
ASTM D7466		Average	Bottom					.84	l mm	33	3 mil
Specific Gravity ASTM D792		Average De	ensity							.94	7 g/cc
MFI ASTM D1238 COND. E					14.0						_
Grade: K307		Melt Flow	Index 1900	/2160	g - g/10	min				.2:	3
Carbon Black Content ASTM D	4218	Range								2.0	5%
Carbon Black Dispersion ASTN	1 D5596	Category								10 in Catego	r y 1
i		A		agth @ Viald		37	N/mm	214	ррі	2677	psi
Tensile Strength ASTM D6693		Average St	riela	TD	41	N/mm	233	ррі	2913	psi	
(2 inches / minute)					MD	46	N/mm	261	ррі	3259	psi
		Average St	rengtn @ I	згеак	TD	46	N/mm	265	ррі	3315	psi
Tensile Elongation					MD					20	%
ASTM D6693		Average El	ongation @	۹ Yield	TD					15	%
(2 inches / minute)					MD					113	0/
Lo = 1.3 Yield Lo = 2.0" Break		Average El	ongation @	∮Break						442	0/
					ID					601	70
Tear Resistance		Average Te	ear Resista	nce	MD			409.2 N	I	92	lbs.
ASTM D1004 (Modified)					TD			382.5 N		86	lbs.
Puncture Resistance ASTM D4833 (Modified)		Average Pe	eak Load					733.9 N	I	165	lbs.
Notched Constant Tensile Loa ASTM D5397	d	Pass/Fail @	<u>9</u> 30%					500 Hr	s.	ONGO	ING

Customer:Environmental SpecialtiesPO:25802John W. Turk Power PlantDestination:Fulton, AR

Production Date: 11/6/2017

OA#: **38383**

Signature:



Shipped To: AGRU AMERICA INC:GEORGETOWN 500 GARRISON RD GEORGETOWN SC 29440 USA Recipient: PALMER Fax:

Delivery #: 89545784 PO #: 11965 Weight: 184100.000 LB Ship Date: 10/16/2017 Package: BULK Mode: Hopper Car Car #: CHVX894059 Seal No: 102423

Product: MARLEX K307 POLYETHYLENE in Bulk

Lot Number: HHK820510

Property	Test Method	Value	Unit
Melt Index HLMI Flow Rate Density Pellet Count Production Date	ASTM D1238 ASTM D1238 D1505 or D4883 P02.08.03	0.23 21 0.938 27 10/10/2017	g/10min g/10min g/cm3 pelet/gram

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem). However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Tray Diff

Troy Griffin Quality Systems Coordinator



Shipped To: AGRU AMERICA INC:GEORGETOWN 500 GARRISON RD GEORGETOWN SC 29440 USA Recipient: PALMER Fax:

Delivery # 89546897 PO # 11965 Weight: 174700.000 LB Ship Date: 10/18/2017 Package: BULK Mode: Hopper Car Car #. CHVX890131 Seal No: 102223

Product: MARLEX K307 POLYETHYLENE in Bulk

Lot Number: HHK820780

Property	Test Method	Value	Unit
Melt Index HLMI Flow Rate Density Pellet Count Production Date	ASTM D1238 ASTM D1238 D1505 or D4883 P02.08.03	0.22 20 0.937 27 10/14/2017	g/10min g/10min g/cm3 pelet/gram

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem). However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Tray Diff

Troy Griffin Quality Systems Coordinator



Shipped To: AGRU AMERICA INC:GEORGETOWN 500 GARRISON RD GEORGETOWN SC 29440 USA Recipient: PALMER Fax:

Delivery #: 89544391 PO #: 11965 Weight: 180300.000 LB Ship Date: 10/12/2017 Package: BULK Mode: Hopper Car Car #: NAHX610359 Seal No: 99372

Product: MARLEX K307 POLYETHYLENE in Bulk

Lot Number: HHK820440

Property	Test Method	Value	Unit
Melt Index HLMI Flow Rate Density Pellet Count Production Date	ASTM D1238 ASTM D1238 D1505 or D4883 P02.08.03	0.22 21 0.937 28 10/08/2017	g/10min g/10min g/cm3 pelet/gram

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem). However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Tray Diff

Troy Griffin Quality Systems Coordinator



Shipped To: AGRU AMERICA INC:GEORGETOWN 500 GARRISON RD GEORGETOWN SC 29440 USA Recipient: PALMER Fax:

Delivery # 89546898 PO # 11965 Weight: 202800.000 LB Ship Date: 10/18/2017 Package: BULK Mode: Hopper Car Car #. PSPX003194 Seal No: 102222

Product: MARLEX K307 POLYETHYLENE in Bulk

Lot Number: HHK820790

Property	Test Method	Value	Unit
Melt Index HLMI Flow Rate Density Pellet Count Production Date	ASTM D1238 ASTM D1238 D1505 or D4883 P02.08.03	0.23 21 0.938 28 10/14/2017	g/10min g/10min g/cm3 pelet/gram

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem). However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Tray Diff

Troy Griffin Quality Systems Coordinator



Yingying Lu, Ph.D., Geomembrane Technical Service & Applications Development Highways 60 & 123, Bartlesville Research and Technology Center, Room 149 PTC Bartlesville, OK 74003

■ 918-977-6894 ■ luyy@cpchem.com ■ Fax: 918-977-7599 ■ <u>www.cpchem.com</u>

June 17, 2015

Grant Palmer Agru America 500 Garrison Road Georgetown, SC 29440

Dear Grant:

This letter is to report the final results of oven-aging and UV-aging tests (according to GRI-GM13 and GRI-GM17) on Agru America black sheet samples that you provided to us recently. These tests were performed by CPChem's Materials Evaluation Laboratory in Bartlesville, OK. The tests were completed June 2015.

The GRI-GM13 (HDPE) and GRI-GM17 (LLDPE) durability tests were done according to the following procedures.

Test	Exposure	Method
HP-OIT	150 °C, 500 psi oxygen	D5885
Oven Aging	90 days, 85 °C	D5721
UV Aging	1600 UV hrs (Conditions were 20 hours UVA-340 at 75 °C followed by 4 hrs	D7238
	dark with condensation at 60 °C. Irradiance was 0.72 W/m ² at 340 nm.)	

Oven-Aging Results

Sample	Initial HP- OIT (min)	HP-OIT Value after Oven Aging 90 Days (min)	% HP-OIT Retained after Oven Aging 90 Days	GRI-GM13 and GRI-GM17% Retained Requirement (Oven Aging 90 Days)
60 mil HDPE Roll # G14F514045 from Marlex [®] K307 Polyethylene Lot # H71-4-1337	1066	883	83	80
40 mil LLDPE Roll # G14C243027 from Marlex® 7104 Polyethylene Lot # CEC810320	512	422	82	60

UV-Aging Results

Sample	Initial HP- OIT (min)	HP-OIT Value after UV Aging (min)	% HP-OIT Retained	GRI-GM13 and GRI- GM17 % Retained Requirement
60 mil HDPE Roll # G14F514045 from Marlex® K307 Polyethylene Lot # H71-4-1337	1066	930	87	50
40 mil LLDPE Roll # G14C243027 from Marlex® 7104 Polyethylene Lot # CEC810320	512	351	69	35

According to these test results, the durability requirements are met.

If you have any questions, please call me at 918-977-6894.

Sincerely,

Vingying Lu

Yingying Lu, Ph. D. Polyethylene Technical Service and Applications Development

Any technical advice, recommendations, results, or analysis ("Information") contained herein, including, without limitation, Information as it may relate to the selection of a specific product ("Product") for your use and application, is given without warranty or guarantee and is accepted at your sole risk. It is imperative that you test the Information (and Product, if applicable) to determine to your own satisfaction whether the Information (and Product, if applicable) are suitable for your intended use and application. You expressly assume, and release Chevron Phillips Chemical Company, from all risk and liability, whether based in contract, tort or otherwise, in connection with the use of, or results obtained from, such Information (and Product, if applicable).



APPENDIX I GEOMEMBRANE CONFORMANCE TEST RESULTS

Material: Agru 60 mil Microspike HDPE Geomembrane Sample Identification: G17F003552 TRI Log #: 33543

PARAMETER	TEST RE	PLICATE	NUMBER								MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Thickness (ASTM D 5994)													
													60 min ave
Thickness (mils)	61	63	60	61	62	62	61	61	61	64	62	1	57, 8 of 10
											0	<< min	54 min ind
Asperity Helght (GRI GM 12)													
Asperity Height (mils) - Side A	33	30	31	32	33	29	31	32	32	32	31	1	16 min
Asperity Height (mils) - Side B	27	27	28	27	27	32	29	32	27	28	28	2	16 min
Side A - Shiny Side Side	B - Dull Side	•											
Density (ASTM D 1505)													
Density (a/cm3)	0.945	0.945	0.945								0.945	0.000	0.940 min
Density (g/cm3)	0.745	0.745	0.745								0.743	0.000	0.740 11111
Carbon Black Content (ASTM D	1603, mod.)											
% Carbon Black	2.59	2.59									2.59	0.00	2.0 - 3.0
Carbon Black Dispersion (ASTM	1 D 5596)												
Rating - 1st field view	1	1	1	1	1								Cat 1 or 2
Rating - 2nd field view	1	1	1	1	1								Cat 1 or 2
Tensile Properties (ASTM D 669	93, 2 ipm str	ain rate)											
MD Yield Strength (ppi)	151	147	149	146	143						147	3	132 min
TD Yield Strength (ppi)	167	163	161	158	157						161	4	132 min
MD Break Strength (ppi)	212	213	220	219	197						212	9	115 min
TD Break Strength (ppi)	201	207	180	199	189						195	11	115 min
MD Yield Flongation (%)	21	19	21	21	21						21	1	12 min
TD Yield Elongation (%)	16	16	16	15	17						16	1	12 min
	427	400	100	470	F 4 7							20	100
MD Break Elongation (%)	436	488	482	479	517 601						480	29	100 min 100 min
	041	000	500	020	001							55	100 11111
Tear Resistance (ASTM D 1004)												
MD Tear Strength (lbs)	57	48	53	56	52	46	50	55	51	54	52	3	45 min
TD Tear Strength (lbs)	54	56	50	47	49	45	48	45	46	46	48	4	45 min

MD Machine Direction

TD Transverse Direction

Page 2 of 2

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.

9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST OR 512.263.2101

Material: Agru 60 mil Microspike HDPE Geomembrane Sample Identification: G17F003565 TRI Log #: 33576

												STD.	PROJ.
PARAMETER	TEST R	EPLICATE		2							MEAN	DEV.	SPEC.
	1	2	3	4	5	6	7	8	9	10			
Thickness (ASTM D 5994)													(0 mile ava
Thickness (mile)	40	40	45	40	40	40	40	41	40	41	42	2	60 min ave
Thickness (mis)	02	03	00	03	02	80	03	01	60	01	60	Z	57, 8 01 10
											00	~~ 11111	54 min mu
Asperity Height (GRI GM 12)													
Asperity Height (mils) - Side A	27	28	30	32	31	27	30	30	34	31	30	2	16 min
Asperity Height (mils) - Side R	26	26	28	29	28	25	27	30	28	28	27	1	16 min
Side A: Shiny Side Side	B: Dull Side												
Density (ASTM D 1505)													
Density (g/cm3)	0.944	0.944	0.944								0.944	0.000	0.940 min
5.0 /													
Carbon Black Content (ASTM I	0 1603, moo	i.)											
% Carbon Black	2.52	2.46									2.49	0.04	2.0 - 3.0
											,		
Carbon Black Dispersion (AST	VI D 5596)												
Rating - 1st field view	1	1	1	1	1								Cat 1 or 2
Rating - 2nd field view	1	1	1	1	1								Cat 1 or 2
Tensile Properties (ASTM D 66	93, 2 lpm s	train rate)											
MD Yield Strength (ppi)	148	141	149	144	150						146	4	132 min
TD Yield Strength (ppi)	149	162	165	151	163						158	7	132 min
MD Break Strength (ppi)	208	184	202	159	197						190	19	115 min
TD Break Strength (ppi)	168	180	175	143	201						173	21	115 min
MD Yield Elongation (%)	21	19	21	18	19						20	1	12 min
TD Yield Elongation (%)	17	15	15	16	16						16	1	12 min
MD Break Elongation (%)	490	518	498	469	472						489	20	100 min
TD Break Elongation (%)	578	576	558	466	642						564	63	100 min
Tear Resistance (ASTM D 1004	4)												
MD Tear Strength (lbs)	54	46	47	51	53	52	54	46	46	49	50	3	45 min
TD Tear Strength (lbs)	43	44	46	47	48	46	46	45	46	46	46	1	45 min
<u> </u>											• I		

MD Machine Direction

TD Transverse Direction

Page 2 of 7

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.

9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA PH: 800.880.TEST OR 512.263.2101

Material: Agru 60 mil Microspike HDPE Geomembrane Sample Identification: G17F003573 TRI Log #: 33576

	TECT D											STD.	PROJ.
PARAMETER				<u> </u>	F	4	7	0	0	10	MEAN	DEV.	SPEC.
Thickness (ASTM D 5994)	I	2	3	4	5	0	,	0	9	10			
Thickness (mils)	61.9	60.5	62.6	61.0	61.0	61.5	62.7	63.5	62.7	60.1	62 60	1 << min	60 min ave 57, 8 of 10 54 min ind
Asperity Height (GRI GM 12)													
Asperity Height (mils) - Side A	32	31	30	32	33	34	31	27	30	28	31	2	16 min
Asperity Height (mils) - Side B	27	26	31	28	32	28	28	29	27	29	28	2	16 min
Side A: Shiny Side Side	B: Dull Side												
Density (ASTM D 1505)													
Density (g/cm3)	0.944	0.944	0.944								0.944	0.000	0.940 min
Carbon Black Content (ASTM I	D 1603, moo	1.)											
% Carbon Black	2.44	2.41									2.43	0.02	2.0 - 3.0
Carbon Black Dispersion (ASTI	M D 5596)												
Rating - 1st field view	1	1	1	1	1								Cat 1 or 2
Rating - 2nd field view	1	1	1	1	1								Cat 1 or 2
Tensile Properties (ASTM D 66	93, 2 ipm si	train rate)											
MD Yield Strength (ppi)	143	145	145	136	142						142	4	132 min
TD Yield Strength (ppi)	156	157	152	146	154						153	4	132 min
MD Break Strength (ppi)	196	187	211	200	199						199	9	115 min
TD Break Strength (ppi)	188	205	184	175	203						191	13	115 min
MD Yield Elongation (%)	21	21	22	21	23						22	1	12 min
TD Yield Elongation (%)	16	15	16	15	18						16	1	12 min
MD Break Elongation (%)	462	483	485	471	495						479	13	100 min
TD Break Elongation (%)	604	641	590	581	642						612	29	100 min
Tear Resistance (ASTM D 1004	4)												
MD Tear Strength (lbs)	52	48	50	51	50	51	52	48	49	52	50	1	45 min
TD Tear Strength (lbs)	45	47	44	42	43	45	45	45	47	43	45	2	45 min

MD Machine Direction

TD Transverse Direction

Page 3 of 7

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.

9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA PH: 800.880.TEST OR 512.263.2101

Material: Agru 60 mil Microspike HDPE Geomembrane Sample Identification: G17F003581 TRI Log #: 33576

				_								STD.	PROJ.
PARAMETER	IEST RE			<u> </u>							MEAN	DEV.	SPEC.
Thickness (ASTM D 5994)	1	2	3	4	5	6	/	8	9	10			60 min 200
Thickness (mils)	61.3	61.4	62.2	61.7	61.6	61.3	65.6	61.0	64.3	63.3	62 61	2 << min	57, 8 of 10 54 min ind
Asperity Height (GRI GM 12)													
Asperity Height (mils) - Side A Asperity Height (mils) - Side B	32 26	30 28	31 28	28 29	32 25	34 28	32 26	31 24	34 27	31 28	31 27	2 1	16 min 16 min
Side A: Shiny Side Side	B: Dull Side												
Density (ASTM D 1505)													
Density (g/cm3)	0.944	0.944	0.944								0.944	0.000	0.940 min
Carbon Black Content (ASTM I	D 1603, mod	1.)											
% Carbon Black	2.46	2.53									2.50	0.05	2.0 - 3.0
Carbon Black Dispersion (ASTI	M D 5596)												
Rating - 1st field view	1	1	1	1	1								Cat 1 or 2
Rating - 2nd field view	1	1	1	1	1								Cat 1 or 2
Tensile Properties (ASTM D 66	93, 2 ipm s	train rate)											
MD Yield Strength (ppi)	142	151	147	147	152						148	4	132 min
TD Yield Strength (ppi)	156	166	161	153	166						160	6	132 min
MD Break Strength (ppi)	213	219	212	179	212						207	16	115 min
TD Break Strength (ppi)	178	187	173	145	183						173	17	115 min
MD Yield Elongation (%)	22	22	21	18	21						21	2	12 min
TD Yield Elongation (%)	15	15	15	16	18						16	1	12 min
MD Break Elongation (%)	490	462	470	481	473						475	11	100 min
TD Break Elongation (%)	596	581	552	492	577						560	41	100 min
Tear Resistance (ASTM D 1004	4)												
MD Tear Strength (lbs)	57	51	54	54	53	55	49	53	53	50	53	2	45 min
TD Tear Strength (lbs)	47	45	45	44	42	51	48	45	43	45	45	3	45 min

MD Machine Direction

TD Transverse Direction

Page 4 of 7

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.

9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA PH: 800.880.TEST OR 512.263.2101
Material: Agru 60 mll Microspike HDPE Geomembrane Sample Identification: G17F003589 TRI Log #: 33576

DADAMETED	TEST DE			`								STD.	PROJ.
PARAMETER	1	2 2		4	5	6	7	0	0	10	WEAN	DEV.	SPEC.
Thickness (ASTM D 5994)		2	3	4	5	U	'	0	7	10			
													60 min ave
Thickness (mils)	63.9	62.2	63.9	61.9	61.6	60.2	63.4	61.0	61.0	61.3	62.0	1	57, 8 of 10
											60.2	<< min	54 min ind
Asperity Height (GRI GM 12)													
Asperity Height (mils) - Side A	32	32	32	32	35	35	31	29	34	32	32	2	16 min
Asperity Height (mils) - Side B	27	27	26	26	27	31	31	29	25	28	27	2	16 min
Side A: Shiny Side Side	B: Dull Side												
Density (ASTM D 1505)													
Density (g/cm3)	0.944	0.944	0.944								0.944	0.000	0.940 min
Carbon Black Content (ASTM D	0 1603, moo	1.)											
% Carbon Black	2.50	2.56									2.53	0.04	2.0 - 3.0
Carbon Black Dispersion (AST	M D 5596)												
Rating - 1st field view	1	1	1	1	1								Cat 1 or 2
Rating - 2nd field view	1	1	1	1	1								Cat 1 or 2
Tensile Properties (ASTM D 66	93, 2 ipm si	train rate)											
MD Yield Strength (ppi)	141	146	143	150	144						145	3	132 min
TD Yield Strength (ppi)	146	161	156	153	160						155	6	132 min
MD Break Strength (ppi)	160	208	207	205	164						189	25	115 min
TD Break Strength (ppi)	158	197	166	176	206						181	20	115 min
MD Yield Elongation (%)	19	22	21	21	21						21	1	12 min
TD Yield Elongation (%)	16	15	15	16	16						16	1	12 min
MD Break Elongation (%)	444	454	466	474	463						460	12	100 min
TD Break Elongation (%)	541	641	543	573	649						589	52	100 min
Tear Resistance (ASTM D 1004	4)												
MD Tear Strength (lbs)	56	49	53	54	48	55	49	51	53	47	51	3	45 min
TD Tear Strength (lbs)	48	47	42	46	43	47	46	44	45	43	45	2	45 min

MD Machine Direction

TD Transverse Direction

Page 5 of 7

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.

Material: Agru 60 mll Microspike HDPE Geomembrane Sample Identification: G17F003597 TRI Log #: 33576

				_								STD.	PROJ.
PARAMETER	IEST RE			<u> </u>						- 10	MEAN	DEV.	SPEC.
Thickness (ASTM D 5994)	1	2	3	4	5	6	7	8	9	10			40 min ava
Thickness (mils)	62.4	64.6	65.5	61.1	63.1	62.4	63.6	62.7	62.8	62.4	63.1 61.1	1 << min	57, 8 of 10 54 min ind
Asperity Height (GRI GM 12)													
Asperity Height (mils) - Side A	32	31	32	30	33	34	32	33	34	33	32	1	16 min
Asperity Height (mils) - Side B	27	28	26	27	27	27	25	24	24	25	26	1	16 min
Side A: Shiny Side Side	B: Dull Side												
Density (ASTM D 1505)													
Density (g/cm3)	0.944	0.944	0.945								0.944	0.001	0.940 min
Carbon Black Content (ASTM I	D 1603, moo	1.)											
% Carbon Black	2.48	2.45									2.47	0.02	2.0 - 3.0
Carbon Black Dispersion (ASTI	VI D 5596)												
Rating - 1st field view	1	1	1	1	1								Cat 1 or 2
Rating - 2nd field view	1	1	1	1	1								Cat 1 or 2
Tensile Properties (ASTM D 66	93, 2 ipm si	train rate)											
MD Yield Strength (ppi)	141	145	146	143	146						144	2	132 min
TD Yield Strength (ppi)	159	163	154	154	162						158	4	132 min
MD Break Strength (ppi)	184	205	224	134	224						194	37	115 min
TD Break Strength (ppi)	179	187	165	179	164						175	10	115 min
MD Yield Elongation (%)	21	23	22	20	22						22	1	12 min
TD Yield Elongation (%)	15	15	17	15	16						16	1	12 min
MD Break Elongation (%)	471	480	465	333	478						445	63	100 min
TD Break Elongation (%)	585	595	553	579	502						563	37	100 min
Tear Resistance (ASTM D 1004	4)												
MD Tear Strength (lbs)	58	50	56	54	49	56	50	56	52	48	53	3	45 min
TD Tear Strength (lbs)	48	46	45	45	45	47	49	45	45	43	46	2	45 min

MD Machine Direction

TD Transverse Direction

Page 6 of 7

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.

Material: Agru 60 mil Microspike HDPE Geomembrane Sample Identification: G17F003605 TRI Log #: 33576

	TEST DE			,							MEAN	STD.	PROJ.
	1	2	3	<u> </u>	5	6	7	8	0	10		DLV.	51 20.
Thickness (ASTM D 5994)	•	2	5	-	5	Ū	,	Ű	,	10			
													60 min ave
Thickness (mils)	62.6	61.8	60.5	63.5	64.3	63.7	61.2	61.6	64.4	60.7	62.4	1	57, 8 of 10
											60.5	<< min	54 min ind
Asperity Height (GRI GM 12)													
Asperity Height (mils) - Side A	31	33	33	30	33	32	33	31	33	31	32	1	16 min
Asperity Height (mils) - Side B	29	26	25	26	28	29	29	29	26	29	27	2	16 min
Side A: Shiny Side Side	B: Dull Side												
Density (ASTM D 1505)													
Density (g/cm3)	0.943	0.943	0.943								0.943	0.000	0.940 min
Carbon Black Content (ASTM I	D 1603, mod	l.)											
% Carbon Black	2.54	2.54									2.54	0.00	2.0 - 3.0
Carbon Black Dispersion (AST	M D 5596)												
Rating - 1st field view	1	1	1	1	1								Cat 1 or 2
Rating - 2nd field view	1	1	1	1	1								Cat 1 or 2
Tensile Properties (ASTM D 66	93, 2 ipm st	rain rate)											
MD Yield Strength (ppi)	136	141	140	141	141						140	2	132 min
TD Yield Strength (ppi)	150	159	164	157	170						160	8	132 min
MD Break Strength (ppi)	183	194	219	162	208						193	22	115 min
TD Break Strength (ppi)	179	185	178	173	194						182	8	115 min
MD Yield Elongation (%)	19	21	22	20	24						21	2	12 min
TD Yield Elongation (%)	17	17	16	16	15						16	1	12 min
MD Break Elongation (%)	521	508	494	462	467						490	26	100 min
TD Break Elongation (%)	596	599	564	568	619						589	23	100 min
Tear Resistance (ASTM D 1004	4)												
MD Tear Strength (lbs)	56	50	55	50	48	42	41	38	40	39	46	7	45 min
TD Tear Strength (lbs)	48	46	46	45	43	47	46	45	45	46	46	1	45 min

MD Machine Direction

TD Transverse Direction

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.

Material: Agru 60 mll Microspike HDPE Geomembrane Sample Identification: G17F003613 TRI Log #: 33597

	TEST DE										MEAN	STD.	PROJ.
	1	2		<u> </u>	5	6	7	8	0	10		DLV.	JFEC.
Thickness (ASTM D 5994)	•	2	5	-	5	U	,	Ū	,	10			
······································													60 min ave
Thickness (mils)	62	60	61	62	61	67	66	62	62	63	63	2	57, 8 of 10
											60	<< min	54 min ind
Asperity Height (GRI GM 12)													
Asperity Height (mils) - Side A	32	32	33	36	34	30	32	33	35	33	33	2	16 min
Asperity Height (mils) - Side B	24	27	28	31	30	25	25	26	30	30	27	3	16 min
Side A: Shiny Side Side B	: Dull Side												
Density (ASTM D 1505)													
Density (g/cm3)	0.943	0.943	0.943								0.943	0.000	0.940 min
Carbon Black Content (ASTM D	1603, mod	.)											
% Carbon Black	2.73	2.71									2.72	0.01	2.0 - 3.0
Carbon Black Dispersion (ASTM	1 D 5596)												
Rating - 1st field view	1	1	1	1	1								Cat 1 or 2
Rating - 2nd field view	1	1	1	1	1								Cat 1 or 2
Tensile Properties (ASTM D 66	93, 2 ipm sti	rain rate)											
MD Yield Strength (ppi)	141	143	144	151	138						143	5	132 min
TD Yield Strength (ppi)	156	153	153	152	160						155	3	132 min
MD Break Strength (ppi)	222	206	199	228	211						213	12	115 min
TD Break Strength (ppi)	149	188	189	190	205						184	21	115 min
MD Yield Elongation (%)	24	24	21	22	21						22	2	12 min
TD Yield Elongation (%)	16	13	16	15	16						15	1	12 min
MD Break Elongation (%)	458	462	518	506	479						485	27	100 min
TD Break Elongation (%)	455	604	603	598	618						576	68	100 min
Tear Resistance (ASTM D 1004)												
MD Tear Strength (lbs)	57	53	52	51	53	56	51	52	52	52	53	2	45 min
TD Tear Strength (lbs)	48	47	43	45	43	44	44	47	44	45	45	2	45 min

MD Machine Direction

TD Transverse Direction

Page 2 of 2

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.



APPENDIX J EQUIPMENT CALIBRATION CERTIFICATE

Responsive Resourceful Reliable

Demtech Services, Inc. Placerville, California, USA

and the second

PT7701 CALIBRATION CERTIFICATE



This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

5

Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable.

Erich Beck into 12

Date:

09/27/17

Demtech Services, Inc. Placerville, California, USA PTマブズノ



This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable.

Erich Beck

Date:

09/27/17



APPENDIX K SUBGRADE ACCEPTANCE CERTIFICATE

Responsive Resourceful Reliable



INSTALLER:	ENVIRONMEN	TAL SPECIAL	TIES INTERI	NATIONAL, INC.
PROJECT NAME:	AEF	P Turk	PROJE	CT NO: 17 - 06 - 1265
		FULTO	N,AK.	
AREA ACCEPTED:	PANEL -	01 THRU.	PANEL - 43	
PANEL NUMBERS:	PANEL -	01 THRU. P	ANEL - 43	
GRADE ACCEPTAN	CE: INSPECTOR:			
GENERAL CONTRA	CTOR: <u>5FC</u>	Thomas	D ashert	>
OWNER: A	Ep		000	
	RESENTATIVE:	G. 1	<u> </u>	
The undersigned,	OHAMMED MALIM	AR ,certifies that h	e/she is a representat	ive of Environmental
Specialties International, In	c. authorized to execute th	nis certificate, that he/s	he has visually inspec	cted the
subgrade surface described	d above on	14-Jul	and found the surface	to be acceptable
for installation of the geome	embrane.			
This certification is based o	on observation of the surfa	ce of the subgrade on	y. No subsurface insp	ections
or test have been performed	d and Environmental Spec	ialties International, In	c. makes no represent	ations or
warranties regarding condit	tions which may exist belo	w the surface of the s	ıbgrade.	
AUTHORIZED REPRES	SENTATIVE OF ENVIR	CONMENTAL SPEC	CIALTIES INTERNA	ational, inc. 14-Jul
Signatu	re	Title		
OWNER REPR	RESENTATIVE	an a = a =		14 CM
Church moon	A B	nvironmertal 1	<i>ech</i>	7-45-18
Signatu	re	Title		DATE



INSTALLER:	ENVIRONME	NTAL SPEC	ALTIES INTERI	NATIONAL, INC.
PROJECT NAME:	A	EP Turk	PROJE	CT NO: 17 - 06 - 1265
		FULT	ON,AK.	
AREA ACCEPTED:	PANEL	- 44 THRU	. PANEL - 60	
PANEL NUMBERS:	PANEL	<mark>44</mark> THRU	PANEL - 60	
GRADE ACCEPTAN	CE: INSPECTOR	R:		
GENERAL CONTRA	стоя: <u><i>SFC</i></u>	CONTRAC	T Ser. Them	n & all g
OWNER:	AEP			
	ESENTATIVE:	G. Am	<	
The undersigned,	OHAMMED MAL	IMAR ,certifies th	hat he/she is a representati	ve of Environmental
Specialties International, In	c. authorized to execu	te this certificate, that	he/she has visually inspec	ted the
subgrade surface described	above on	15-Jul	and found the surface	to be acceptable
for installation of the geome	embrane.			
This certification is based o	n observation of the s	urface of the subgrade	e only. No subsurface insp	ections
or test have been performed	d and Environmental S	pecialties Internationa	II, Inc. makes no represent	ations or
warranties regarding condit	ions which may exist	below the surface of t	ne subgrade.	
AUTHORIZED REPRES	BENTATIVE OF EN limar A.	VIRONMENTAL S	PECIALTIES INTERNA	ational, inc. 15-Jul
Signatu	re	Ti	tle	
OWNER REPR	RESENTATI	VE:		
Charl mo could	1	Environ mastal	Tech	8 7-15-18
Signatur	re	Ti	tle	DATE



INSTALLER:	ENVIRONMI	ENTAL SPECIAI	TIES INTER	NATIONAL, INC.
PROJECT NAME:	Α	EP Turk	PROJE	CT NO: 17 - 06 - 1265
LOCATION:		FULTO	N,AK.	
AREA ACCEPTED:	PANEI	61 THRU.	PANEL - 73	
PANEL NUMBERS:	PANE	L - <mark>61 Thru.</mark> F	PANEL - 73	
GRADE ACCEPTAN	CE: INSPECTO	R:		
GENERAL CONTRA	CTOR:			
OWNER:	D. W	itte AE	P	r.
AUTHORIZED REPR	ESENTATIVE:	B.S.M	ritte	
The undersigned, M Specialties International, Inc	OHAMMED MA	LIMAR ,certifies that ,ute this certificate, that he/	ne/she is a representat she has visually inspe	ive of Environmental
subgrade surface described	l above on	19-Jul	and found the surfac	e to be acceptable
This certification is based of	mbrane. n observation of the	surface of the subgrade or	ly. No subsurface insp	pections
or test have been performed	l and Environmental	Specialties International, In	ic. makes no represen	tations or
warranties regarding condition	ions which may exis	t below the surface of the s	ubgrade.	
AUTHORIZED REPRES	ENTATIVE OF E limar A.	NVIRONMENTAL SPE	CIALTIES INTERN	ATIONAL, INC. 19-Jul
Signatur	re	Title	;	
OWNER REPR	RESENTAT	IVE:		
Charle mgo	nel	Environmental	telle	7-19-18
Signatur	re	Title)	DATE



4.1

INSTALLER: E	NVIRONMENT	AL SPECIAL	TIES INTERNA	TIONAL, INC.
PROJECT NAME:	AEP	Turk	PROJECT	NO: 17 - 06 - 1265
LOCATION:		FULTO	N,AK.	
AREA ACCEPTED:	PANEL - 7	4 THRU. P	ANEL - 115	
PANEL NUMBERS:	PANEL -	4 THRU. P	ANEL - 115	
GRADE ACCEPTANC	E: INSPECTOR:	A.G	· With	AFP 8/4/18 8/4/18
GENERAL CONTRAC	TOR: <u>SFC Con</u>	truct Services	, Im. Merory	
OWNER: Ame	RICAN ELECT	RIC POWE	R	
AUTHORIZED REPRE		G. 40	8/4/18	
The undersigned, M	OHAMMED MALIM	AR ,certifies that	he/she is a representative	of Environmental
Specialties International, Inc	authorized to execute the	his certificate, that he	she has visually inspecte	d the
subgrade surface described	above on	3-Aug	_ and found the surface to	
for installation of the geome	mbrane.	oo of the subgrade 0	nly. No subsurface inspec	tions
This certification is based of	n observation of the surfa	cialties International.	nc. makes no representat	ions or
or test have been performed	ions which may exist belo	ow the surface of the	subgrade.	
warranties regarding condit				
AUTHORIZED REPRES	SENTATIVE OF ENVI <i>limar A</i> .	RONMENTAL SPI	ECIALTIES INTERNA	TIONAL, INC. 3-Aug
Signatu	re	Tit	le	
-				
	RESENTATIV	E:		
		Environmental	Technichan	B. 4. 18
Signatu	ire a	Tit	le Terracon	Consultants



APPENDIX L GEOMEMBRANE DAILY DEPLOYMENT LOGS

Geomei	Client Name: Contractor: Project Name: Address:	American Electric Powe SFC Turk Cell 2 3711 HWY 355 S, Fulto	ent Log er on AR	Project Number CQA Monitor Reviewed By Approved By	: 35177127 : Scott McD : Tony Bard : Dave McC	onald/Matt Acre ella ormick	- -	76	25809 Intersta Bryan Phone: 50 Fax: 50	te 30 South t, AR 72022 01.847.9292 01.847.9210
			Weath	er Conditions	Material	Approxi	mate Panel Dim	ensions	Panel Visually	CQA
Date	Panel ID	Roll Number	Amb. Temp. (⁰F)	Weather/Wind	Туре	Length (ft) Side 1	Length (ft) Side 2	Width (Feet)	Inpsected (Y or N)	Monitor
7/14/18	P-1	3589	89	Sun/Breeze	60T	114	114	23	Y	SM
7/14/18	P-2	3589	89	Sun/Breeze	60T	111	111	23	Y	SM
7/14/18	P-3	3589	89	Sun/Breeze	60T	49	49	23	Y	SM
7/14/18	P-4	3589	90	Sun/Breeze	60T	49	0	23	Y	SM
7/14/18	P-5	3589	90	Sun/Breeze	60T	117	106	23	Y	SM
7/14/18	P-6	3554	90	Sun/Breeze	60T	117	104	23	Y	SM
7/14/18	P-7	3554	90	Sun/Breeze	60T	104	106	23	Y	SM
7/14/18	P-8	3554	90	Sun/Breeze	60T	107	106	23	Y	SM
7/14/18	P-9	3554	91	Sun/Breeze	60T	107	108	23	Y	SM
7/14/18	P-10	3582	91	Sun/Breeze	60T	108	108	23	Y	SM
7/14/18	P-11	3582	91	Sun/Breeze	60T	108	108	23	Y	SM
7/14/18	P-12	3582	91	Sun/Breeze	60T	108	109	23	Y	SM
7/14/18	P-13	3582	93	Sun/Breeze	60T	109	109	23	Y	SM
7/14/18	P-14	3582	93	Sun/Breeze	60T	51	60	23	Y	SM
7/14/18	P-15	3568	93	Sun/Breeze	60T	110	110	23	Y	SM
7/14/18	P-16	3568	93	Sun/Breeze	60T	116	110	23	Y	SM
7/14/18	P-17	3568	93	Sun/Breeze	60T	116	97	23	Y	SM
7/14/18	P-18	3568	95	Sun/Breeze	60T	30	74	23	Y	SM
7/14/18	P-19	3568	95	Sun/Breeze	60T	30	0	23	Y	SM
7/14/18	P-20	3568	95	Sun/Breeze	60T	32	23	12	Y	SM
7/14/18	P-21	3593	95	Sun/Breeze	60T	118	118	23	Y	SM
7/14/18	P-22	3593	95	Sun/Breeze	60T	54	54	23	Y	SM
7/14/18	P-23	3593	95	Sun/Breeze	60T	54	34	23	Y	SM
7/14/18	P-24	3593	95	Sun/Breeze	60T	32	32	23	Y	SM
7/14/18	P-25	3593	95	Sun/Breeze	60T	32	29	23	Y	SM
7/14/18	P-26	3593	96	Sun/Breeze	60T	29	30	23	Y	SM
7/14/18	P-27	3593	96	Sun/Breeze	60T	30	30	23	Y	SM
7/14/18	P-28	3593	96	Sun/Breeze	60T	126	92	23	Y	SM

Geomei	Client Name: Contractor: Project Name: Address: Location:	American Electric Powe SFC Turk Cell 2 3711 HWY 355 S, Fulto Cell 2	ent Log	Project Numbe CQA Monito Reviewed By Approved By Liner Installe	r: 35177127 r: Scott McD r: Tony Bard r: Dave McC r: ESI	onald/Matt Acre ella ormick	-	76	25809 Intersta Bryan Phone: 50 Fax: 50	te 30 South t, AR 72022 01.847.9292 01.847.9210
			Weathe	er Conditions	Material	Approxi	mate Panel Dim	ensions	Panel Visually	CQA
Date	Panel ID	Roll Number	Amb. Temp. (ºF)	Weather/Wind	Туре	Length (ft) Side 1	Length (ft) Side 2	Width (Feet)	Inpsected (Y or N)	Monitor
7/14/18	P-29	3554	96	Sun/Breeze	60T	53	32	23	Y	SM
7/14/18	P-30	3594	96	Sun/Breeze	60T	164	164	23	Y	SM
7/14/18	P-31	3594	96	Sun/Breeze	60T	164	164	23	Y	SM
7/14/18	P-32	3594	96	Sun/Breeze	60T	164	207	23	Y	SM
7/14/18	P-33	3594	96	Sun/Breeze	60T	39	28	9	Y	SM
7/14/18	P-34	3585	98	Sun/Breeze	60T	246	307	23	Y	SM
7/14/18	P-35	3585	98	Sun/Breeze	60T	236	236	23	Y	SM
7/14/18	P-36	3591	99	Sun/Breeze	60T	71	102	23	Y	SM
7/14/18	P-37	3591	99	Sun/Breeze	60T	404	336	23	Y	SM
7/14/18	P-38	3583	99	Sun/Breeze	60T	425	404	23	Y	SM
7/14/18	P-39	3586	99	Sun/Breeze	60T	540	540	23	Y	SM
7/14/18	P-40	3583	99	Sun/Breeze	60T	110	110	4	Y	SM
7/14/18	P-41	3583	99	Sun/Breeze	60T	53	53	16	Y	SM
7/14/18	P-42	3581	99	Sun/Breeze	60T	540	540	23	Y	SM
7/14/18	P-43	3579	99	Sun/Breeze	60T	540	540	23	Y	SM
7/15/18	P-44	3597	90	Sunny/Breeze	60T	540	540	23	Y	SM
7/15/18	P-45	3567	91	Sunny/Breeze	60T	540	540	23	Y	SM
7/15/18	P-46	3565	91	Sunny/Breeze	60T	540	540	23	Y	SM
7/15/18	P-47	3575	93	Sunny/Breeze	60T	540	540	23	Y	SM
7/15/18	P-48	3561	93	Sunny/Breeze	60T	540	540	23	Y	SM
7/15/18	P-49	3563	93	Sunny/Breeze	60T	540	<u>5</u> 40	23	Y	SM
7/15/18	P-50	3552	95	Sunny/Breeze	60T	540	540	23	Y	SM
7/15/18	P-51	3553	95	Sunny/Breeze	60T	540	540	23	Y	SM
7/15/18	P-52	3578	95	Sunny/Breeze	60T	540	540	23	Y	SM
7/15/18	P-53	3599	95	Sunny/Windy	60T	540	540	23	Y	SM
7/15/18	P-54	3606	97	Sunny/Windy	60T	540	540	23	Y	SM
7/15/18	P-55	3602	97	Sunny/Windy	60T	540	540	23	Y	SM
7/15/18	P-56	3584	101	Sunny/Windv	60T	540	540	23	Y	SM

Geomer	Client Name: Contractor: Project Name: Address:	American Electric Power SFC Turk Cell 2 3711 HWY 355 S, Fulto	er on AR	Project Number CQA Monitor Reviewed By Approved By	35177127 Scott McD Tony Bard Dave McC	onald/Matt Acre ella ormick	<u>.</u>		25809 Intersta Bryan Phone: 50 Fax: 50	te 30 South ft, AR 72022 01.847.9292 01.847.9210
			Weath	er Conditions	Material	Approxi	mate Panel Dim	ensions	Panel Visually	CQA
Date	Panel ID	Roll Number	Amb. Temp. (ºF)	Weather/Wind	Туре	Length (ft) Side 1	Length (ft) Side 2	Width (Feet)	Inpsected (Y or N)	Monitor
7/15/18	P-57	3605	101	Sunnv/Windv	60T	540	540	23	Y	SM
7/15/18	P-58	3568	102	Sunny/Windy	60T	540	540	23	Y	SM
7/15/18	P-59	3564	103	Sunny/Windy	60T	540	540	23	Y	SM
7/15/18	P-60	3555	103	Sunny/Windy	60T	540	540	23	Y	SM
7/19/18	P-61	3562	74	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-62	3573	74	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-63	3595	74	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-64	3616	74	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-65	3610	80	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-66	3608	80	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-67	3598	80	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-68	3609	80	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-69	3540	91	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-70	3572	91	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-71	3590	91	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-72	3592	91	Sunny/Hot	60T	540	540	23	Y	MA
7/19/18	P-73	3588	91	Sunny/Hot	60T	540	540	23	Y	MA
8/3/18	P-74	3611	73	Clear/Still	60T	535	535	23	Y	MA
8/3/18	P-75	3580	73	Clear/Still	60T	535	535	23	Y	MA
8/3/18	P-76	3615	73	Clear/Still	60T	535	535	23	Y	MA
8/3/18	P-77	3569	74	Clear/Still	60T	535	535	23	Y	MA
8/3/18	P-78	3600	75	Clear/Still	60T	535	535	23	Y	MA
8/3/18	P-79	3587	77	Clear/Light Breeze	60T	535	535	23	Y	MA
8/3/18	P-80	3574	81	Clear/Light Breeze	60T	535	535	23	Y	MA
8/3/18	P-81	3601	86	Clear/Light Breeze	60T	535	535	23	Y	MA
8/3/18	P-82	3576	86	Clear/Light Breeze	60T	535	535	23	Y	MA
8/3/18	P-83	3614	88	Clear/Light Breeze	60T	535	535	23	Y	MA
8/3/18	P-84	3596	88	Clear/Light Breeze	60T	69	69	23	Y	MA

Geomer	nbrane D	aily Deployme	nt Log					٦٢		
	Client Name	American Electric Powe	r	Project Number	35177127				25809 Interstat	te 30 South
	Contractor:	SFC	•	CQA Monitor	Scott McD	onald/Matt Acre	<u>-</u> €		Brvan	t. AR 72022
	Project Name:	Turk Cell 2		Reviewed Bv	Tony Bard	ella	-		Phone: 50	01.847.9292
	Address:	3711 HWY 355 S, Fulto	n AR	Approved By	Dave McC	ormick	-		Fax: 50	01.847.9210
	Location:	Cell 2		Liner Installer	ESI		-			
			Weath	er Conditions	Material	Approxi	mate Panel Dim	ensions	Panel Visually	CQA
Date	Panel ID	Roll Number	Amb. Temp. (ºF)	Weather/Wind	Туре	Length (ft) Side 1	Length (ft) Side 2	Width (Feet)	Inpsected (Y or N)	Monitor
8/3/18	P-85	3596	89	Clear/Light Breeze	60T	62	35	23	Y	MA
8/3/18	P-86	3596	89	Clear/Light Breeze	60T	35	17	23	Y	MA
8/3/18	P-87	3596	90	Clear/Breezy	60T	8	8	20	Y	MA
8/3/18	P-88	3596	90	Clear/Breezy	60T	21	8	17	Y	MA
8/3/18	P-89	3596	91	Clear/Breezy	60T	24	18	23	Y	MA
8/3/18	P-90	3596	91	Clear/Breezy	60T	18	42	23	Y	MA
8/3/18	P-91	3596	92	Clear/Breezy	60T	42	66	23	Y	MA
8/3/18	P-92	3596	92	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-93	3612	92	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-94	3612	92	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-95	3612	92	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-96	3612	92	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-97	3612	92	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-98	3617	92	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-99	3617	92	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-100	3617	91	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-101	3617	91	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-102	3617	91	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-103	3603	90	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-104	3603	90	Clear/Breezy	60T	88	88	23	Y	MA
8/3/18	P-105	3603	90	Clear/Breezy	60T	53	32	23	Y	MA
8/3/18	P-106	3603	90	Clear/Breezy	60T	32	39	23	Y	MA
8/3/18	P-107	3604	89	Clear/Breezy	60T	11	12	23	Y	MA
8/3/18	P-108	3604	89	Clear/Breezy	60T	11	11	23	Y	MA
8/3/18	P-109	3604	89	Clear/Breezy	60T	11	24	23	Y	MA
8/3/18	P-110	3604	88	Clear/Breezy	60T	24	50	23	Y	MA
8/3/18	P-111	3604	88	Clear/Breezy	60T	50	74	23	Y	MA
8/3/18	P-112	3604	87	Clear/Breezy	60T	60	37	23	Y	MA

Geomei	Client Name: Contractor: Project Name: Address: Location:	American Electric Power SFC Turk Cell 2 3711 HWY 355 S, Fulto Cell 2	ent Log er on AR	Project Number CQA Monitor Reviewed By Approved By Liner Installer	: 35177127 : Scott McD : Tony Barc : Dave McC : ESI	Donald/Matt Acrea Iella Cormick	25809 Interstate 30 South Bryant, AR 72022 Phone: 501.847.9292 Fax: 501.847.9210					
Date	Panel ID	Roll Number	Weath	er Conditions	Material	Approxi	mate Panel Dim	ensions Width	Panel Visually	CQA		
			(ºF)	Weather/Wind	Туре	Side 1	Side 2	(Feet)	(Y or N)	MOIIIIO		
8/3/18	P-113	3603	87	Clear/Breezy	60T	84	54	23	Y	MA		
8/3/18	P-114	3603	86	Clear/Breezy	60T	180	144	23	Y	MA		
8/3/18	P-115	3604	85	Clear/Breezy	60T	91	55	23	Y	MA		



APPENDIX M GEOMEMBRANE TRIAL WELD SUMMARY

Geom	embi	rane T	rial W	eld Su	mmar	у					1					O 9 Interstate	ON e 30 South	
Client	Client Name: American Electric Power Project Number: 35177127											Specificat	ion for Trial	Welds	Bryant, AR 72022			
Con	tractor:	SFC			CQAN	Ionitor:	Scott McD	Donald/Mat	t Acree			Peel Extrus	sion = $\overline{7}$	78		Phone: 50 [°]	1.847.9292	
Project	Name:	Turk Cell	2		Review	ved By:	Tony Bar	della			5	Shear Extrus	sion =	21		Fax: 50 ⁻	1.847.9210	
A	ddress:	3711 HW	Y 355 S, I	Fulton AF	Appro	ved By:	Dave McC	Cormick				Peel Fus	sion = 🤤	98				
Lo	cation:	Cell 2			Liner Ir	staller:	ESI					Shear Fus	sion =1	21				
						Wold.	Eucie	n Wald	Evtruci	on Wold							Deee	
Dete	-	Ambient	Comula	Maahina	Coomor		Fusio	n weid	Extrusi	On weid			Та				Pass	
Date	Time		Sample	Number	Seamer		Tomn °E	Speed	remp ∞	Preneat			Te	St Values			Or Eatl	
		Temp *F	עו	Number	Initials	туре	тетр г	Setting	ل ل	Setting	_	400 00			407 400	7 400 400 00		
7/14/18	8:30	91	TW 1	4181	PT		860	7.0	-	-	Р	106 98	109 99	107 101	107 102	103 99	PASS	
						55					5	135	131	137	134	133		
7/14/18	8:32	91	TW 2	4181	PT		860	4.0	-	-	P	121 122	121 120	122 120	119 124	120 119	PASS	
											5	120	121	130	129	120		
7/14/18	8:35	91	TW 3	4181	PT		860	5.0	-	-	۲ ۹	13	121 127	122	124	120 110	PASS	
						13 F		7.0				108 104	00 100	00 112	100 106	110 105		
7/14/18	8:41	91	TW 4	4153	LN	SS	860		-	-	S	135	133	134	132	134	PASS	
						F					P	119 120	117 112	125 119	114 119	123 114		
7/14/18	8:45	91	TW 5	4153	LN	TT	860	2.0	-	-	S	132	133	129	132	128	PASS	
7/4 4/4 0	0.00			4470		F		7.0			P	113 99	112 106	99 111	113 116	111 117	D 4 0 0	
//14/18	9:30	91	IW 6	4179	SS	SS	860	7.0	-	-	S	136	135	139	138	135	PA33	
7/4 4/4 0	4.4.4	00		4470	<u> </u>	F SS	860	7.0	-		Ρ	108 99	113 105	98 107	102 99	111 104		
//14/10	1.14	93		4179	- 55					-	S	129	132	128	127	130	PASS	
7/1//18	1.02	03	T\\/ 8	418	PT	F	960	7.0		_	Ρ	107 104	99 114	102 107	99 110	102 106	DV66	
7/14/10	1.02	90	1000			SS	000	7.0	-	-	S	129	128	130	127	131	PA35	
7/14/18	1.05	93	TW 9	4181	PT	F	860	5.0	_	_	Ρ	104 116	100 108	114 103	100 112	115 110	PASS	
7/14/10	1.00	55	100 5	4101		TS	000	0.0			S	131	131	133	131	130	1700	
7/14/18	1.00	93	TW 10	4181	РТ	F	860	40	-	_	Ρ	116 124	112 114	120 117	122 109	112 99	PASS	
.,					•••	TT					S	136	134	140	139	139	F A33	
7/14/18	1:12	93	TW 11	4153	LN	F	860	7.0	-	-	Ρ	101 99	101 106	110 99	104 101	99 102	PASS	
						SS					S	130	129	127	131	129		
7/14/18	1:15	93	TW 12	4153	LN		860	2.0	-	-	P	100 110	103 117	111 115	109 110	113 116	PASS	
				ļ							S	140	139	136	141	135	1,700	
7/14/18	1:17	93	TW 13	4153	LN	F	860	3.0	-	-	P	104 99	111 113	100 112	101 109	107 116	PASS	
				 						ł	IS E	132	133	126	129	131	┟────	
7/15/18	7:42	87	TW 14	4181	PT		860	7.0	-	-	ЧЧ	110 102	109 100	105 108	119 108	112 107	PASS	
			1			22					S	143	140	142	143	141	1	

Geomembrane Trial Weld Summary 25809 Interstate 30 South **Client Name:** American Electric Power Project Number: 35177127 Bryant, AR 72022 **Specification for Trial Welds** CQA Monitor: Scott McDonald/Matt Acree Contractor: SFC Phone: 501.847.9292 Peel Extrusion = 78 Reviewed By: Tony Bardella Project Name: Turk Cell 2 Fax: 501.847.9210 Shear Extrusion = 121 Address: 3711 HWY 355 S, Fulton AF Approved By: Dave McCormick Peel Fusion = 98 Location: Cell 2 Liner Installer: ESI Shear Fusion = 121 Weld **Fusion Weld** Extrusion Weld Pass Ambient Sample Machine & Mat. Speed Preheat Test Values Time Seamer Wedge Temp Date or Temp °F °C Temp °F Type ID Number Initials Settina Setting lbs/inch Fail P 117 108 117 116 109 106 119 112 118 101 F PASS 7/15/18 7:45 87 TW 15 4153 LN 860 7.0 -SS S 145 145 144 139 143 F Ρ 98 103 105 110 100 106 104 107 106 112 7/15/18 7:50 87 TW 16 4179 SS 860 7.0 -PASS -SS S 141 138 140 141 138 123 118 120 Е Ρ 113 125 ----7/15/18 TW 17 ΒV PASS 8:06 87 314 500 550 -TT S 129 131 132 134 130 Ε 116 109 110 105 Ρ 117 ----7/15/18 12:50 93 TW 18 314 ΒV 500 550 PASS -_ TT S 127 129 130 132 127 104 110 120 111 112 109 119 114 124 117 Е Ρ 7/15/18 TW 19 860 PASS 1:00 93 4153 LN 2.0 --TT S 131 133 128 129 132 98 112 99 113 102 111 Е Ρ 110 106 100 99 7/15/18 1:05 93 TW 20 4153 LN 860 7.0 PASS --SS S 126 130 129 127 131 117 112 108 115 99 107 99 111 113 102 Е Ρ PASS 7/15/18 1:07 SS 93 TW 21 4179 860 7.0 --SS S 132 130 133 132 131 119 114 110 103 101 116 99 112 104 107 F Ρ PΤ PASS 7/15/18 93 TW 22 4181 860 7.0 1:00 -SS S 134 135 132 128 134 117 108 122 105 119 110 112 103 106 111 Р F 7/15/18 1:02 93 TW 23 4181 PΤ 860 4.0 PASS -TT S 130 128 132 126 127 Ρ 116 -120 -122 119 -Е 124 --AF PASS 7/16/18 7:19 80 TW 24 5173 550 500 --TT S 134 134 132 130 135 Ε Р 107 -117 121 123 109 ----7/16/18 7:37 80 TW 25 0215 ΒV 500 550 PASS -_ TT S 132 130 133 134 132 Ρ 105 -Е 110 -115 107 --116 -ΒV PASS 7/16/18 12:40 93 TW 26 0215 550 500 --TT S 129 126 130 127 131 125 -Ε Ρ 122 119 120 ---126 -7/18/18 7:45 78 TW 27 0215 ΒV 500 550 PASS TT S 133 135 134 131 133 Ρ 109 -115 -Ε 120 -124 118 --ΒV PASS 7/18/18 7:23 91 TW 28 0215 500 550 TT S 131 132 129 131 130

F

SS

860

8.0

_

PT

7/19/18

7:32

78

TW 29

4181

119 123 116 109 116 128 116 118

142

141

140

114 102

142

PASS

Р

S

141

Geomembrane Trial Weld Summary 25809 Interstate 30 South **Client Name:** American Electric Power Project Number: 35177127 Bryant, AR 72022 **Specification for Trial Welds** CQA Monitor: Scott McDonald/Matt Acree Contractor: SFC Phone: 501.847.9292 Peel Extrusion = 78 Reviewed By: Tony Bardella Project Name: Turk Cell 2 Fax: 501.847.9210 Shear Extrusion = 121 Address: 3711 HWY 355 S, Fulton AF Approved By: Dave McCormick Peel Fusion = 98 Location: Cell 2 Liner Installer: ESI Shear Fusion = 121 Weld **Fusion Weld** Extrusion Weld Pass Ambient Sample Machine & Mat. Speed Preheat Test Values Seamer Wedge Temp Date Time or Temp °F °C Temp °F Type ID Number Initials Settina Setting lbs/inch Fail P 124 125 121 111 105 116 106 115 109 115 F PASS 7/19/18 7:34 78 TW 30 4153 LN 860 8.0 -SS S 144 137 144 142 136 F Ρ 111 110 108 117 117 111 104 114 109 109 7/19/18 7:50 78 TW 31 4179 SS 860 8.0 _ PASS _ SS S 141 142 142 139 138 128 128 135 F Ρ 121 125 ----7/19/18 9:14 ΒV PASS 86 TW 32 0215 500 550 -SS S 135 137 143 140 138 Ε 125 125 126 119 Ρ 120 -----7/19/18 1:10 96 TW 33 0215 BV 500 550 PASS -_ TT S 141 135 138 140 137 123 124 122 125 119 120 122 119 116 121 F Ρ 7/19/18 1:20 TW 34 4 PASS 96 4181 PT 860.0 --ТΤ S 134 131 132 133 131 110 106 106 100 112 100 116 106 115 112 F Ρ 8/3/18 8:30 73 TW 35 4181 PT 860 7.0 PASS --SS S 141 139 143 138 140 127 106 114 117 113 105 111 123 120 110 F Ρ PASS 8/3/18 8:35 SS 73 TW 36 4179 860 8.0 --SS S 145 143 145 144 142 120 112 119 111 125 117 131 126 130 114 F Ρ 8/3/18 8:35 73 TW 37 LN 8.0 PASS 4153 860 -SS S 146 143 146 147 145 138 132 129 137 140 136 125 134 133 138 F Ρ PASS 8/3/18 8:40 73 TW 38 4153 LN 860 4.0 _ 144 TT S 148 146 147 145 110 104 100 112 113 106 116 111 105 109 F Ρ PΤ PASS 8/3/18 12:50 89 TW 39 4181 860 7.0 _ SS S 135 137 138 140 135 114 102 117 113 108 119 121 110 123 111 F Ρ PASS 8/3/18 12:53 89 TW 40 4179 SS 860 8.0 _ SS S 138 141 136 139 140 121 107 109 118 123 112 103 120 122 121 F Ρ 8/3/18 12:55 89 TW 41 4153 LN 860 8.0 PASS -SS S 134 136 137 136 135 138 133 129 130 125 133 135 125 139 127 F Ρ 8/3/18 12:57 89 TW 42 4153 LN 860 PASS 4.0 -SS S 146 144 145 143 142 F Ρ 134 121 134 123 137 120 122 131 128 130 8/3/18 12:55 89 TW 43 4181 PT 860 5.0 PASS -SS S 142 137 139 140 141

F

SS

860

4.0

-

PΤ

8/3/18

12:53

89

TW 44

4181

120 106 122 110 119 115 107 115 122 102

136

PASS

135

133

Ρ

S

137

139

Geom	embr	rane Tr	rial W	eld Su	mmar	у									1		iac 09 Interstat	ON e 30 South
Client Name: American Electric Power Contractor: SFC Project Name: Turk Cell 2 Address: 3711 HWY 355 S, Fulton AF Location: Cell 2					Project N CQA N Reviev Appro Liner Ir	lumber: Ionitor: wed By: ved By: nstaller:	35177127 Scott McD Tony Barc Dave McC ESI		ş	Specification for Trial WeldsPeel Extrusion =78Shear Extrusion =121Peel Fusion =98Shear Fusion =121					Bryant Phone: 50 Fax: 50	Bryant, AR 72022 10ne: 501.847.9292 Fax: 501.847.9210		
Date	Time	Ambient Temp °F	Sample ID	Machine Number	Seamer Initials	Weld & Mat. Type	Fusior Wedge Temp [°] F	n Weld Speed Setting	Extrusio Temp °C	on Weld Preheat Setting				est Val	lues ch			Pass or Fail
8/3/18	12:55	89	TW 45	4179	SS	F TT	860	4.0	-	-	P S	130 122 135	132 11 138	9 131	125	133 128 136	118 126 136	PASS
8/3/18	1:30	89	TW 46	0215	BV	F TT	860	5.0	-	-	P S	130 121 133	116 11 135	9 125	122 36	121 120 138	124 113 133	- PASS
8/4/18	7:05	73	TW 47	5173	AF	E TT	-	-	500	550	P S	137 - 143	138 - 145	134	- 17	137 - 143	135 - 148	PASS
8/4/18	7:24	73	TW 48	0215	BV	E TT		-	500	550	P S	137 - 143	142 - 148	132	- 16	135 - 145	140 -	PASS
	1									<u> </u>								
								!		 								<u> </u>
	'	<u> </u>	<u> </u>	'	'			'										<u> </u>
	'	 	──	'	¦'	<u> </u>		 '		 				$\overline{+}$	$ \rightarrow $		<u> </u>	<u> </u>
	_ _ '	ļ		<u>ا</u>	ļ'			<u> </u> '		<u> </u>								<u> </u>
														+	-+	 		4
																		-
	1			 	 	 				<u> </u>				<u>†</u>				1
	+'	<u> </u>		¹														<u> </u>
	'	<u> </u>				<u> </u>		 		<u> </u>				+	-+			<u> </u>
	'	 	──	 '	 '	—	 	 '		<u> </u>				+				
	'	<u> </u>		<u> </u>	'			<u> </u>										1
	1															 		-



APPENDIX N GEOMEMBRANE PANEL SEAMING AND NON-DESTRUCTIVE TEST LOG SUMMARY

Client Name: American Electric Power Project Number: 35177127 25809 Interstate 30 South CQA Monitor: Scott McDonald/Matt Acree Contractor: SFC Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Box Date Length Test No. Fusion/ Date Initials ID Initials Number (ft) From - To P/F P/F (ft) Extrusion Start End +/-Start End P-2 Ρ 7/14/18 9:18 PT P-1 114.0 **SAT - P33** F RC 7/14/18 30 30 0 9:22 9:27 SM 114.0 7/14/18 9:25 PT P-2 P-3 111.0 SAT-P33 225.0 F RC 7/14/18 30 29 -1 9:25 9:30 Ρ SM DS1 F Ρ SM 7/14/18 9:20 LN P-3 P-4 49.0 SAT-P5 274.0 RC 7/14/18 30 30 0 9:27 9:32 DS2 7/14/18 PT P-3 P-5 59.0 P4-P33 F RC 7/14/18 0 9:35 Ρ SM 11:13 333.0 30 30 9:40 SM 7/14/18 9:32 PT P-4 P-5 47.0 SAT-P33 380.0 F RC 7/14/18 30 30 0 9:37 9:42 Ρ P-6 F Ρ SM 7/14/18 P-5 117.0 RC 7/14/18 -1 10:42 LN SAT-P34 497.0 30 29 9:40 9:45 7/14/18 9:42 PT P-6 P-7 104.0 SAT-P34 601.0 F RC 7/14/18 30 30 0 9:55 10:00 Ρ SM P-9 SS P-8 SAT-P34 F RC 0 Ρ SM 7/14/18 9:49 107.0 708.0 7/14/18 30 30 10:10 10:15 DS3 SM 7/14/18 10:00 LN P-9 P-10 108.0 SAT-P36 816.0 F RC 7/14/18 30 29 -1 10:06 10:11 Ρ DS4 F Р SM 7/14/18 10:06 LN P-10 P-11 108.0 SAT-P36 924.0 RC 7/14/18 30 30 0 10:16 10:21 DS5 P-11 F Р 7/14/18 10:05 SS P-12 108.0 SAT-P37 1032.0 RC 7/14/18 30 29 -1 10:20 10:25 SM P-8 Ρ SM 7/14/18 9:49 LN P-7 106.0 SAT-P34 1138.0 F RC 7/14/18 30 29 -1 10:04 10:09 7/14/18 PT P-12 P-13 109.0 SAT-P37 1247.0 F RC 7/14/18 0 10:30 10:35 Р SM 10:20 30 30 DS6 F Р SM P-13 P-14 0 7/14/18 10:27 SS 60.0 SAT-P17 1307.0 RC 7/14/18 30 30 10:37 10:42 7/14/18 11:33 PT P-13 P-16 23.0 P17-P15 1330.0 F RC 7/14/18 30 29 -1 11:38 11:43 Ρ SM P-15 F RC Р SM 7/14/18 11:35 PT P-13 P16-P38 1341.0 7/14/18 30 30 0 11:40 11:45 11.0 11:22 F Ρ SM 7/14/18 PT P-14 P-19 20.0 SAT-P14 1361.0 RC 7/14/18 30 30 0 11:42 11:47 P-18 Р SM 7/14/18 11:23 PT P-14 19.0 P19-P20 1380.0 F RC 7/14/18 30 30 0 11:27 11:32 7/14/18 11:13 PT P-14 P-20 P18-P17 1392.0 F RC 7/14/18 30 30 0 11:29 11:34 Ρ SM 12.0 7/14/18 P-14 P-17 P20-P13 1425.0 F RC 7/14/18 -1 11:36 Р SM 11:30 PT 33.0 30 29 11:41 7/14/18 10:42 PT P-15 P-16 110.0 E.ext-P13 1535.0 F RC 7/14/18 30 0 10:53 10:58 Ρ SM DS7 30 P-17 F RC Ρ SM 7/14/18 10:47 LN P-16 116.0 E.ext-P13 1651.0 7/14/18 30 29 -1 11:00 11:05 7/14/18 10:58 PT P-17 P-18 74.0 E.ext-P20 1725.0 F RC 7/14/18 30 30 0 11:12 11:17 Ρ SM P-17 P-20 F RC Р SM 7/14/18 11:11 PT 23.0 P18-P14 1748.0 7/14/18 30 30 0 11:17 11:22 P-19 F Ρ SM 7/14/18 11:05 P-18 30.0 E.ext-P14 1778.0 RC 7/14/18 30 30 0 11:10 11:15 LN F PT P-18 - P-20 RC 30 Ρ SM 7/14/18 11:13 32.0 P17-P14 1810.0 7/14/18 30 0 11:21 11:26

Geomembrane Seaming and Non-Destructive Test Summary



Client Name: American Electric Power Project Number: 35177127 25809 Interstate 30 South Contractor: SFC CQA Monitor: Scott McDonald/Matt Acree Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Test Box Date Length No. Fusion/ Date Initials ID Initials Number (ft) From - To +/-P/F P/F (ft) Extrusion Start End Start End 7/14/18 11:27 P-1 P-21 118.0 SAT-P33 1928.0 F RC 7/14/18 30 30 0 11:48 11:53 Ρ SM LN SM 7/14/18 P-21 P-22 54.0 F RC Ρ 11:35 SS SAT-P30 1982.0 7/14/18 30 29 -1 11:50 11:55 7/14/18 14:08 LN P-21 P-30 21.0 P22-P31 2003.0 F RC 7/14/18 30 30 0 14:13 14:18 Ρ SM P-31 F SM 7/14/18 14:05 P-21 23.0 P31-P32 2026.0 RC 7/14/18 30 29 -1 14:10 14:15 Ρ LN P-21 P-32 F RC Р SM 7/14/18 14:01 LN 14.0 N-S 2040.0 7/14/18 30 30 0 14:08 14:13 P-32 F Р SM 7/14/18 14:17 LN P-21 23.0 E-W 2063.0 RC 7/14/18 30 30 0 11:52 11:57 7/14/18 11:46 P-22 P-23 SAT-P30 F RC 7/14/18 30 0 13:38 13:43 Р SM 54.0 2117.0 30 LN SM 7/14/18 13:30 PT P-22 P-30 24.0 P23-P21 2141.0 F RC 7/14/18 30 30 0 11:55 12:00 Ρ 7/14/18 P-23 P-24 SAT-P28 2175.0 F RC 7/14/18 0 13:23 Р SM 11:45 SS 34.0 30 30 13:18 P-28 0 7/14/18 12:07 PT P-23 32.0 P24-P22 2207.0 F RC 7/14/18 30 30 12:00 12:05 Ρ SM P-25 F Р SM 7/14/18 11:56 LN P-24 32.0 SAT-P28 2239.0 RC 7/14/18 30 29 -1 11:59 12:04 7/14/18 12:06 PT P-24 P-28 23.0 P25-P23 2262.0 F RC 7/14/18 30 30 0 13:16 13:21 Ρ SM P-25 P-26 SAT-P28 F RC 0 13:17 Ρ SM 7/14/18 11:52 PT 29.0 2291.0 7/14/18 30 30 13:12 SM 7/14/18 12:04 PT P-25 P-28 23.0 P26-P24 2314.0 F RC 7/14/18 30 29 -1 13:13 13:18 Ρ F SM 7/14/18 11:52 SS P-26 P-27 30.0 SAT-P28 2344.0 RC 7/14/18 30 0 13:00 13:05 Ρ 30 7/14/18 12:02 PT P-26 P-28 23.0 P27-P25 2367.0 F RC 7/14/18 30 30 0 13:09 13:14 Р SM SM P-27 P-28 F Ρ 7/14/18 12:00 23.0 2390.0 RC 7/14/18 29 -1 13:03 13:08 PT P29-P26 30 P-29 F Р SM 7/14/18 11:58 PT P-27 32.0 SAT-P30 2422.0 RC 7/14/18 30 30 0 12:08 12:13 P-29 P-30 F -1 Р SM 7/14/18 13:19 PT 26.0 P27-P30 2448.0 RC 7/14/18 30 29 13:36 13:41 F Ρ SM 7/14/18 13:25 SS P-30 P-31 164.0 E.ext-P21 2612.0 RC 7/14/18 30 29 -1 13:41 13:46 7/14/18 13:32 LN P-31 P-32 164.0 E.ext-P21 2776.0 F RC 7/14/18 30 30 0 13:45 13:50 Р SM F 7/14/18 13:18 PT P-28 P-30 126.0 P28-P31 2902.0 RC 7/14/18 30 29 -1 13:35 13:40 Ρ SM P-34 Р SM 7/14/18 13:38 P-32 F RC 7/14/18 0 PT 207.0 E.ext-P33 3109.0 30 30 13:51 13:56 DS9 7/14/18 13:50 SS P-34 P-35 236.0 E.ext-P36 3345.0 F RC 7/14/18 30 30 0 14:15 14:20 Ρ SM DS8 F P-35 P-37 236.0 RC 15:02 Ρ SM 7/14/18 14:10 PT E.ext-P36 3581.0 7/14/18 30 30 0 14:57 **DS10** 14:30 PT P-36 P-37 115.0 3696.0 F RC 7/14/18 30 29 -1 13:05 13:10 Ρ SM 7/14/18 P-35-P10

Geomembrane Seaming and Non-Destructive Test Summary



Geomembrane Seaming and Non-Destructive Test Summary erraco Client Name: American Electric Power Project Number: 35177127 25809 Interstate 30 South Contractor: SFC CQA Monitor: Scott McDonald/Matt Acree Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Box Date Length Test No. Fusion/ Date Initials ID Initials Number (ft) From - To +/-P/F P/F (ft) Extrusion Start End Start End - P-38 7/14/18 14:22 SS P-37 404.0 E.ext-P13 4100.0 F RC 7/14/18 29 -1 15:20 15:25 Ρ SM **DS12** 30 SM 7/14/18 P-38 P-39 4525.0 F RC Ρ 14:45 PT 425.0 E.ext-P40 7/14/18 30 30 0 16:00 16:05 7/14/18 14:02 PT P-35 P-36 23.0 P37-P34 4548.0 F RC 7/14/18 30 30 0 15:00 15:05 Ρ SM 14:10 P-36 F Р SM 7/14/18 LN P-34 71.0 P35-P8 4619.0 RC 7/14/18 30 30 0 14:57 15:02 P-8 P-34 F RC Р SM 7/14/18 14:54 LN 12.0 P7-P36 4631.0 7/14/18 30 29 -1 14:56 15:01 P-34 F Р SM 7/14/18 14:44 LN P-7 23.0 P6-P8 4654.0 RC 7/14/18 30 30 0 14:56 15:01 14:38 P-6 P-34 23.0 P5-P7 F RC 7/14/18 30 0 14:48 Р SM 7/14/18 4677.0 30 14:53 LN SM 7/14/18 14:36 LN P-5 P-34 6.0 P33-P6 4683.0 F RC 7/14/18 30 30 0 14:49 14:54 Ρ 7/14/18 P-33 P-34 P32-P5 4722.0 F RC 7/14/18 0 14:02 Р SM 13:56 LN 39.0 30 30 14:07 P-33 7/14/18 14:25 P-2 23.0 P1-P3 4745.0 F RC 7/14/18 30 30 0 14:31 14:36 Ρ SM LN P-5 P-33 F Р SM 7/14/18 14:29 LN 19.0 P3-P34 4764.0 RC 7/14/18 30 29 -1 14:38 14:43 7/14/18 13:52 LN P-32 P-33 9.0 P1-P34 4773.0 F RC 7/14/18 30 30 0 13:55 14:00 Ρ SM P-8 P-36 P34-P9 F RC 0 Ρ SM 7/14/18 14:54 LN 9.0 4782.0 7/14/18 30 30 15:00 15:05 SM 7/14/18 14:56 LN P-9 P-36 23.0 P8-P10 4805.0 F RC 7/14/18 30 29 -1 15:03 15:08 Ρ **DS14** 14:59 P9-P37 F Р SM 7/14/18 P-10 P-36 4822.0 RC 7/14/18 30 0 15:07 15:12 LN 17.0 30 7/14/18 15:01 LN P-10 P-37 6.0 P36-P11 4828.0 F RC 7/14/18 30 30 0 15:10 15:15 Ρ SM SM P-11 P-37 F 1 Ρ 7/14/18 15:02 23.0 RC 7/14/18 30 30 15:15 15:20 LN P10-P12 4851.0 P-37 F Р SM 7/14/18 15:05 LN P-12 23.0 P11-P13 4874.0 RC 7/14/18 30 30 0 15:15 15:20 P-13 P-38 P37-P15 F 0 Р SM 7/14/18 15:03 LN 18.0 4892.0 RC 7/14/18 30 30 15:27 15:32 F Ρ SM 7/14/18 15:15 LN P-15 P-38 11.0 P13-P40 4903.0 RC 7/14/18 30 30 0 15:30 15:35 7/14/18 15:22 LN P-15 P-40 110.0 P16-P38 5013.0 F RC 7/14/18 30 30 0 15:35 15:40 Р SM -1 F 7/14/18 15:02 SS P-39 P-40 110.0 P38-E.ext 5123.0 RC 7/14/18 30 29 15:38 15:43 Ρ SM P-42 Р SM 7/14/18 15:32 P-39 533.0 F RC 7/14/18 -1 PT W EOS-E Ext 5656.0 30 29 16:18 16:23 **DS11** 7/14/18 15:55 SS P-42 P-43 533.0 W EOS-E Ext 6189.0 F RC 7/14/18 30 30 0 16:55 17:00 Ρ SM **DS13** F P-29 P-41 RC Ρ SM 7/14/18 15:28 SS 53.0 SAT-P30 6242.0 7/14/18 30 30 0 15:50 15:55 12:08 LN P-28 P-29 25.0 P27-P30 F RC 7/14/18 30 30 0 13:00 13:05 Ρ SM 7/14/18 6267.0

Geomembrane Seaming and Non-Destructive Test Summary erraco Client Name: American Electric Power Project Number: 35177127 25809 Interstate 30 South Contractor: SFC CQA Monitor: Scott McDonald/Matt Acree Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Box Date Length Test No. Fusion/ Date Initials ID Initials Number (ft) From - To +/-P/F P/F (ft) Extrusion Start End Start End 7/14/18 14:23 P-1 P-33 23.0 P21-P2 6290.0 F RC 7/14/18 30 29 -1 14:20 14:25 Ρ SM LN P-13 SM F RC Ρ 7/14/18 15:02 LN P-37 6.0 P12-P38 6296.0 7/14/18 30 29 -1 15:17 15:22 7/15/18 8:01 PT P-43 P-44 533.0 W EOS-E Ext 6829.0 F RC 7/15/18 30 30 0 8:31 8:36 Ρ SM **DS15** F -1 Ρ SM 7/15/18 8:24 LN P-44 P-45 535.0 W EOS-E Ext 7364.0 RC 7/15/18 30 29 9:20 9:25 **DS16** P-45 F RC -1 Ρ SM 7/15/18 8:37 SS P-46 533.0 W EOS-E Ext 7897.0 7/15/18 30 29 9:33 9:38 **DS17** W EOS-E Ext F Р 7/15/18 9:05 PT P-46 P-47 537.0 8434.0 RC 7/15/18 30 30 0 9:55 10:00 SM **DS18** P-47 P-48 537.0 W EOS-E Ext F RC 29 -1 10:15 Р SM 7/15/18 9:19 LN 8971.0 7/15/18 30 10:10 S19,19A,19 7/15/18 9:36 SS P-48 P-49 537.0 W EOS-E Ext 9508.0 F RC 7/15/18 30 30 0 10:23 10:28 Ρ SM **DS20** W EOS-E Ext 7/15/18 PT P-49 533.0 F RC 7/15/18 0 10:35 10:40 Р SM 10:05 P-50 10041.0 30 30 DS21,21A,21 -1 7/15/18 10:23 P-50 P-51 534.0 W EOS-E Ext 10575.0 F RC 7/15/18 30 29 10:55 11:00 Ρ SM **DS22** LN SM F Р 7/14/18 16:52 LN P-43 E.ext 23.0 P44-P42 10598.0 RC 7/14/18 30 29 -1 16:58 17:03 7/14/18 16:56 LN P-42 E.ext 23.0 P43-P39 10621.0 F RC 7/14/18 30 29 -1 17:02 17:07 Ρ SM P-39 P42-P40 F RC 0 Ρ SM 7/14/18 17:00 LN E.ext 23.0 10644.0 7/14/18 30 30 17:08 17:13 SM 7/14/18 16:26 LN P-15 E.ext 23.0 P40-P16 10667.0 F RC 7/14/18 30 29 -1 16:33 16:38 Ρ F Р SM 7/14/18 P-16 23.0 P15-P17 10690.0 RC 7/14/18 30 0 16:38 16:43 16:31 LN E.ext 30 7/14/18 16:36 LN P-17 E.ext 19.0 P16-P18 10709.0 F RC 7/14/18 30 30 0 16:42 16:47 Р SM SM P-17 F Ρ 7/14/18 16:40 E.ext 16.0 W.EOS-S.AT 10725.0 RC 7/14/18 30 30 0 16:47 16:52 LN F Р SM 7/15/18 11:01 SS P-51 P-52 534.0 W EOS-E Ext 11259.0 RC 7/16/18 30 30 0 11:49 11:54 **DS23** F -1 Р SM 7/15/18 11:00 PT P-52 P-53 534.0 W EOS-E Ext 11793.0 RC 7/16/18 30 29 11:50 11:55 **DS24** F Ρ SM 7/15/18 11:16 LN P-53 P-54 535.0 W EOS-E Ext 12328.0 RC 7/16/18 30 29 1 11:50 11:55 **DS25** 7/15/18 13:08 PT P-54 P-55 535.0 W EOS-E Ext 12863.0 F RC 7/15/18 30 29 -1 14:00 14:05 Р SM DS26.36 F 7/15/18 13:34 P-55 P-56 535.0 W EOS-E Ext 13398.0 RC 7/15/18 30 30 0 14:23 14:28 Ρ SM DS27.28 LN Р SM DS29, 37 7/15/18 13:51 SS P-56 F RC 7/15/18 0 P-57 535.0 W EOS-E Ext 13933.0 30 30 14:45 14:50 7/15/18 14:05 PT P-57 P-58 535.0 W EOS-E Ext 14468.0 F RC 7/15/18 30 30 0 15:05 15:10 Ρ SM DS30 F 7/15/18 P-58 RC 15:14 Ρ SM 14:38 LN P-59 535.0 W EOS-E Ext 15003.0 7/15/18 30 30 0 15:09 **DS31** 7/15/18 14:50 SS P-59 P-60 535.0 W EOS-E Ext 15538.0 F RC 7/16/18 30 29 -1 7:05 7:10 Ρ SM **DS32**

Geomembrane Seaming and Non-Destructive Test Summary erraco Client Name: American Electric Power Project Number: 35177127 25809 Interstate 30 South Contractor: SFC CQA Monitor: Scott McDonald/Matt Acree Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Box Date Length Test No. Fusion/ Date Initials ID Initials Number (ft) From - To +/-P/F P/F (ft) Extrusion Start End Start End 7/14/18 15:25 SS P-41 P-30 8.0 W EOS-P29 15546.0 F RC 7/16/18 30 0 7:06 7:11 Ρ SM 30 SM 7/15/18 P-44 F RC Ρ 15:14 PT E.ext 23.0 P45-P43 15569.0 7/16/18 30 29 -1 7:08 7:13 7/15/18 15:16 PT P-45 E.ext 23.0 P46-P44 15592.0 F RC 7/16/18 30 30 0 7:18 7:23 Ρ SM Ρ SM 7/15/18 15:17 PT P-46 E.ext 23.0 P47-P45 15615.0 F RC 7/16/18 30 30 0 7:18 7:23 P-47 F RC Ρ SM 7/15/18 15:20 PT E.ext 23.0 P48-P46 15638.0 7/16/18 30 29 -1 7:25 7:30 P-48 F Ρ SM 7/15/18 15:22 PT E.ext 23.0 P49-P47 15661.0 RC 7/16/18 30 29 -1 7:33 7:38 PT P-49 E.ext 23.0 P50-P48 F RC 7/16/18 29 -1 7:50 7:55 Ρ SM 7/15/18 15:20 15684.0 30 SM 7/15/18 15:19 PT P-50 E.ext 23.0 P51-P49 15707.0 F RC 7/15/18 30 30 0 16:10 16:15 Ρ 7/15/18 23.0 P52-P50 F RC 7/15/18 0 Р SM 15:18 PT P-51 E.ext 15730.0 30 30 15:50 15:55 7/15/18 15:15 PT P-52 E.ext 23.0 P53-P51 15753.0 F RC 7/15/18 30 30 0 15:40 15:45 Ρ SM F Р SM 7/15/18 15:13 PT P-53 E.ext 23.0 P54-P52 15776.0 RC 7/15/18 30 29 -1 15:33 15:38 7/15/18 15:11 PT P-54 E.ext 23.0 P55-P53 15799.0 F RC 7/15/18 30 30 0 15:38 15:43 Ρ SM P-55 P56-P54 F RC 1 15:27 Ρ SM 7/15/18 15:10 PT E.ext 23.0 15822.0 7/15/18 30 30 15:22 SM 7/15/18 15:08 PT P-56 E.ext 23.0 P57-P55 15845.0 F RC 7/15/18 30 30 0 15:28 15:33 Ρ **DS33** F Р SM 7/15/18 PT P-57 23.0 P58-P56 15868.0 RC 7/15/18 30 30 0 15:13 15:18 15:06 E.ext 7/15/18 15:04 PT P-58 E.ext 23.0 P59-P57 15891.0 F RC 7/15/18 30 30 0 15:08 15:13 Ρ SM SM F Ρ 7/15/18 15:00 P-59 E.ext 23.0 15914.0 RC 7/15/18 30 30 0 15:09 15:14 PT P60-P58 Ρ SM 7/15/18 15:41 PT P-60 E.ext 23.0 P61-P59 15937.0 F RC 7/16/18 30 30 0 7:04 7:09 W EOS-E Ext F 0 Ρ 7/19/18 8:08 PT P-60 P-61 535.0 16472.0 RC 7/19/18 30 30 8:55 9:00 MA DS38,41 F Ρ 7/19/18 8:34 SS P-61 P-62 535.0 W EOS-E Ext 17007.0 RC 7/19/18 30 29 -1 9:15 9:20 MA DS39,42 7/19/18 LN P-62 P-63 535.0 W EOS-E Ext 17542.0 F RC 7/19/18 30 30 0 9:33 9:38 Ρ MA DS40,43 8:48 F 7/19/18 9:00 PT P-63 P-64 535.0 W EOS-E Ext 18077.0 RC 7/19/18 30 30 0 9:45 9:50 Ρ MA **DS44** Р 7/19/18 SS P-64 F RC 7/19/18 0 MA 9:20 P-65 535.0 W EOS-E Ext 18612.0 30 30 10:10 10:15 **DS45** 7/19/18 9:39 LN P-65 P-66 535.0 W EOS-E Ext 19147.0 F RC 7/19/18 30 29 -1 10:25 10:30 Ρ MA **DS46** F P-66 RC Ρ MA DS47,50 7/19/18 9:58 PT P-67 535.0 W EOS-E Ext 19682.0 7/19/18 30 30 0 10:37 10:42 10:08 SS P-67 P-68 535.0 W EOS-E Ext F RC 7/19/18 30 30 0 11:05 11:10 Ρ MA DS48.51 7/19/18 20217.0

Geomembrane Seaming and Non-Destructive Test Summary erraco Client Name: American Electric Power Project Number: 35177127 25809 Interstate 30 South Contractor: SFC CQA Monitor: Scott McDonald/Matt Acree Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Box Date Length Test No. Fusion/ Date Initials ID Initials Number (ft) From - To +/-P/F P/F (ft) Extrusion Start End Start End 7/19/18 10:22 P-68 P-69 535.0 W EOS-E Ext 20752.0 F RC 7/19/18 29 -1 11:12 11:17 Ρ MA DS49.52 LN 30 7/19/18 P-69 F RC Ρ MA 10:42 PT P-70 535.0 W EOS-E Ext 21287.0 7/19/18 30 29 -1 11:25 11:30 **DS53** 7/19/18 10:56 SS P-70 P-71 535.0 W EOS-E Ext 21822.0 F RC 7/19/18 30 29 -1 11:53 11:58 Ρ MA **DS54** Р 7/19/18 11:22 LN P-71 P-72 535.0 W EOS-E Ext 22357.0 F RC 7/19/18 30 30 0 12:05 12:10 MA **DS55** P-72 F RC 12:23 Р MA 7/19/18 11:32 PT P-73 535.0 W EOS-E Ext 22892.0 7/19/18 30 30 0 12:18 **DS56** F Ρ MA 7/19/18 2:28 PT P-61 Exis 5.0 Existing 22897.0 RC 7/19/18 30 30 0 2:45 2:50 MA 2:26 PT P-61 F RC 7/19/18 29 -1 2:38 2:43 Ρ 7/19/18 Exis 18.0 Existing 22915.0 30 7/19/18 2:25 PT P-62 Exis 6.0 Existing 22921.0 F RC 7/19/18 30 30 0 2:35 2:40 Ρ MA 7/19/18 P-62 F RC 7/19/18 -1 2:38 Ρ MA 2:24 PT Exis 17.0 22938.0 30 29 2:33 Existing 7/19/18 2:22 PT P-63 Exis 23.0 22961.0 F RC 7/19/18 30 30 0 2:30 2:35 Ρ MA Existing F Р MA 7/19/18 2:20 PT P-64 Exis 23.0 Existing 22984.0 RC 7/19/18 30 29 -1 2:26 2:31 7/19/18 2:16 PT P-65 Exis 23.0 23007.0 F RC 7/19/18 30 30 0 2:23 2:28 Ρ MA Existing F RC 0 Ρ MA 7/19/18 2:14 PT P-66 Exis 23.0 Existing 23030.0 7/19/18 30 30 2:20 2:25 7/19/18 2:12 PT P-67 Exis 23.0 23053.0 F RC 7/19/18 30 30 0 2:17 2:22 Ρ MA **DS57** Existina F Ρ 7/19/18 PT P-68 23.0 23076.0 RC 7/19/18 30 30 0 2:15 2:20 MA 2:10 Exis Existing 7/19/18 2:08 PT P-69 Exis 23.0 Existing 23099.0 F RC 7/19/18 30 30 0 2:13 2:18 Ρ MA F Ρ MA 7/19/18 2:06 PT P-70 23.0 23122.0 RC 7/19/18 29 -1 2:10 2:15 Exis Existing 30 Ρ MA 7/19/18 2:04 PT P-71 Exis 23.0 Existing 23145.0 F RC 7/19/18 30 30 0 2:08 2:13 F -1 Ρ MA 7/19/18 2:02 PT P-72 Exis 23.0 Existing 23168.0 RC 7/19/18 30 29 2:06 2:11 Ρ MA 7/19/18 2:00 PT P-73 Exis 23.0 Existing 23191.0 F RC 7/19/18 30 30 0 2:03 2:08 8/3/18 9:02 PT P-73 P-74 535.0 W EOS-E Ext 23726.0 F RC 8/3/18 30 30 0 9:45 9:50 Ρ MA **DS58** -1 Ρ 8/3/18 9:11 SS P-74 P-75 535.0 W EOS-E Ext 24261.0 F RC 8/3/18 29 9:48 9:53 MA **DS59** 30 Ρ P-74 24279.0 F RC 0 MA 8/3/18 2:45 BV Exis 18.0 Existing 8/3/18 30 30 2:53 2:58 8/3/18 2:45 BV P-74 Exis 5.0 Existing 24284.0 F RC 8/3/18 30 30 0 2:55 3:00 Ρ MA F P-75 P-76 RC Ρ MA 8/3/18 9:20 PT 535.0 W EOS-E Ext 24819.0 8/3/18 30 30 0 10:00 10:05 **DS60** 2:35 ΒV P-75 Exis 18.0 24837.0 F RC 30 30 0 2:47 2:52 Ρ MA 8/3/18 Existing 8/3/18

Geomembrane Seaming and Non-Destructive Test Summary erraco Client Name: American Electric Power Project Number: 35177127 25809 Interstate 30 South CQA Monitor: Scott McDonald/Matt Acree Contractor: SFC Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Box Date Length Test No. Fusion/ Date Initials ID Initials Number (ft) From - To P/F +/-P/F (ft) Extrusion Start End Start End 8/3/18 2:35 P-75 Exis 5.0 24842.0 RC 8/3/18 30 0 2:50 2:55 Ρ MA BV Existing 30 P-76 25377.0 F RC Ρ MA 8/3/18 9:50 PT P-77 535.0 W EOS-E Ext 8/3/18 30 29 -1 10:53 10:58 **DS65** 8/3/18 2:30 BV P-76 18.0 Existing 25395.0 F RC 8/3/18 30 30 0 2:42 2:47 Ρ MA Exis -1 Ρ MA 8/3/18 2:30 BV P-76 Exis 5.0 Existing 25400.0 F RC 8/3/18 30 29 2:45 2:50 P-77 F RC Р MA 8/3/18 9:55 SS P-78 535.0 W EOS-E Ext 25935.0 8/3/18 30 29 -1 10:55 11:00 **DS66** F Ρ 8/3/18 2:26 BV P-77 Exis 18.0 Existing 25953.0 RC 8/3/18 30 30 0 2:37 2:42 MA MA 2:26 P-77 F RC 30 0 2:40 2:45 Ρ 8/3/18 BV Exis 5.0 Existing 25958.0 8/3/18 30 8/3/18 10:11 LN P-78 P-79 535.0 W EOS-E Ext 26493.0 F RC 8/3/18 30 29 -1 11:05 11:10 Ρ MA **DS67** P-78 F RC 0 2:32 2:37 Ρ MA 8/3/18 2:22 BV Exis 18.0 Existing 26511.0 8/3/18 30 30 MA 8/3/18 2:22 P-78 Exis 5.0 26516.0 F RC 8/3/18 29 -1 2:35 2:40 Ρ BV Existing 30 F Р MA 8/3/18 10:40 PT P-79 P-80 535.0 W EOS-E Ext 27051.0 RC 8/3/18 30 30 0 11:22 11:27 DS61,69 8/3/18 2:18 BV P-79 18.0 27069.0 F RC 8/3/18 30 0 2:28 2:33 Ρ MA Exis Existing 30 F RC 0 Ρ MA 8/3/18 2:18 BV P-79 Exis 5.0 Existing 27074.0 8/3/18 30 30 2:30 2:35 8/3/18 10:49 SS P-80 P-81 535.0 W EOS-E Ext 27609.0 F RC 8/3/18 30 0 11:30 11:35 Ρ MA DS62.70 30 F Ρ 8/3/18 BV P-80 27627.0 RC 8/3/18 30 0 2:23 2:28 MA 2:14 Exis 18.0 Existing 30 8/3/18 2:14 BV P-80 Exis 5.0 Existing 27632.0 F RC 8/3/18 30 30 0 2:26 2:31 Ρ MA Ρ MA 11:01 P-81 P-82 535.0 W EOS-E Ext 28167.0 F RC 8/3/18 29 -1 11:45 11:50 DS63,71 8/3/18 LN 30 Ρ DS81 8/3/18 2:09 BV P-81 Exis 18.0 Existing 28185.0 F RC 8/3/18 30 29 -1 2:19 2:24 MA F 0 Ρ MA 8/3/18 2:09 BV P-81 Exis 5.0 Existing 28190.0 RC 8/3/18 30 30 2:21 2:26 Ρ MA 8/3/18 11:28 PT P-82 P-83 366.0 W EOS-E Ext 28556.0 F RC 8/3/18 30 29 -1 12:03 12:08 **DS64** 8/3/18 2:06 BV P-82 18.0 28574.0 F RC 8/3/18 30 30 0 2:15 2:20 Ρ MA Exis Existing Ρ 8/3/18 2:06 P-82 Exis 5.0 28579.0 F RC 8/3/18 30 0 2:17 2:23 MA BV Existing 30 Ρ MA 11:34 SS P-83 P-84 F RC -1 8/3/18 100.0 P-92 - E Ext 28679.0 8/3/18 30 29 11:43 11:48 8/3/18 11:45 SS P-84 P-85 88.0 P-91 - E Ext 28767.0 F RC 8/3/18 30 30 0 11:51 11:56 Ρ MA F P-83 RC -1 Ρ MA 8/3/18 2:00 BV Exis 18.0 Existing 28785.0 8/3/18 30 29 2:10 2:15 2:00 ΒV P-83 Exis 5.0 28790.0 F RC 30 30 0 2:13 2:18 Ρ MA 8/3/18 Existing 8/3/18

Geomembrane Seaming and Non-Destructive Test Summary erraco Client Name: American Electric Power Project Number: 35177127 25809 Interstate 30 South CQA Monitor: Scott McDonald/Matt Acree Contractor: SFC Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Box Date Length Test No. Fusion/ Date Initials ID Initials Number (ft) From - To P/F P/F (ft) Extrusion Start End +/-Start End 8/3/18 1:57 P-84 Exis 28808.0 F RC 8/3/18 30 0 2:06 2:11 Ρ MA BV 18.0 Existing 30 P-84 F RC Ρ MA 8/3/18 1:57 BV Exis 5.0 Existina 28813.0 8/3/18 30 30 0 2:08 2:13 8/3/18 1:54 BV P-85 Exis 18.0 Existing 28831.0 F RC 8/3/18 30 30 0 2:01 2:06 Ρ MA 8/3/18 Ρ MA 1:54 BV P-85 Exis 5.0 Existing 28836.0 F RC 8/3/18 30 29 -1 2:03 2:08 F RC Ρ MA 8/3/18 11:53 SS P-85 P-86 67.0 P-90 - E Ext 28903.0 8/3/18 30 30 0 12:53 12:58 F -1 Ρ MA 8/3/18 12:03 SS P-86 P-88 41.0 P-89 - P-87 - E Ext 28944.0 RC 8/3/18 30 29 1:02 1:07 12:09 P-87 P-88 P-86 - NAT F RC 30 0 Ρ MA 8/3/18 LN 17.0 28961.0 8/3/18 30 1:00 1:05 8/3/18 11:49 LN P-82 P-83 172.0 W EOS-E Ext 29133.0 F RC 8/3/18 30 30 0 12:50 12:55 Ρ MA **DS68** P-88 P-87 - P-86 F RC -1 Ρ MA 8/3/18 1:36 LN P-89 24.0 29157.0 8/3/18 29 1:40 1:45 30 MA 8/3/18 1:09 SS P-89 P-90 18.0 NAT - P-86 29175.0 F RC 8/3/18 30 0 1:11 1:16 Ρ 30 F Р MA 8/3/18 1:31 LN P-90 P-86 19.0 P-89 - P-85 29194.0 RC 8/3/18 30 30 0 1:37 1:42 **DS80** P-91 8/3/18 1:12 SS P-90 42.0 NAT - P-85 29236.0 F RC 8/3/18 30 0 1:17 1:23 Ρ MA **DS72** 30 P-91 P-90 - P-92 F RC 0 Ρ MA 8/3/18 1:26 LN P-85 27.0 29263.0 8/3/18 30 30 1:32 1:37 8/3/18 1:15 LN P-91 P-92 66.0 NAT - P-83 29329.0 F RC 8/3/18 30 0 1:39 1:44 Ρ MA **DS73** 30 F Р 8/3/18 2:22 LN P-92 P-83 23.0 P-84 - P-93 29352.0 RC 8/3/18 30 0 3:10 3:15 MA 30 8/3/18 1:26 PT P-92 P-84 119.0 P-91 - P-P-83 29471.0 F RC 8/3/18 30 30 0 1:28 1:33 Ρ MA NAT - P-83 F Ρ MA 8/3/18 1:27 SS P-92 P-93 88.0 29559.0 RC 8/3/18 30 0 30 1:41 1:46 Ρ MA 8/3/18 2:20 LN P-93 P-83 23.0 P-92 - P-94 29582.0 F RC 8/3/18 30 30 0 3:15 3:20 F RC -1 Ρ MA 8/3/18 1:28 PT P-93 P-94 88.0 NAT - P-83 29670.0 8/3/18 30 29 1:43 1:48 **DS74** F Ρ MA 8/3/18 2:18 LN P-94 P-83 23.0 P-93 - P-95 29693.0 RC 8/3/18 30 30 0 3:24 3:29 8/3/18 1:32 PT P-94 P-95 88.0 NAT - P-83 29781.0 F RC 8/3/18 30 29 -1 3:26 3:31 Ρ MA F Ρ 8/3/18 2:16 P-95 P-83 23.0 P-94 - P-96 29804.0 RC 8/3/18 30 0 3:31 3:36 MA LN 30 Ρ SS P-95 P-96 F RC 0 MA 8/3/18 1:38 88.0 NAT - P-83 29892.0 8/3/18 30 30 3:33 3:38 8/3/18 2:14 LN P-96 P-83 23.0 P-95 - P-97 29915.0 F RC 8/3/18 30 29 -1 3:52 3:57 Ρ MA F Ρ P-96 RC -1 15:59 MA 8/3/18 1:42 LN P-97 88.0 NAT - P-83 30003.0 8/3/18 30 29 15:54 2:12 LN P-97 P-83 23.0 F RC 30 30 0 3:58 4:03 Ρ MA 8/3/18 P-96 - P-98 30026.0 8/3/18

Geomembrane Seaming and Non-Destructive Test Summary erraco Client Name: American Electric Power Project Number: 35177127 25809 Interstate 30 South CQA Monitor: Scott McDonald/Matt Acree Contractor: SFC Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Box Date Length Test No. Fusion/ Date Initials ID Initials Number (ft) From - To P/F +/-P/F (ft) Extrusion Start End Start End 8/3/18 1:58 SS P-97 P-98 17.0 NAT - P-83 30043.0 F RC 8/3/18 29 -1 4:00 4:07 Ρ MA 30 8/3/18 P-97 71.0 F RC Ρ MA 2:05 SS P-98 NAT - P-83 30114.0 8/3/18 30 29 -1 4:06 4:11 8/3/18 2:08 LN P-98 P-83 23.0 P-97 - P-99 30137.0 F RC 8/3/18 30 30 0 4:10 4:15 Ρ MA Ρ MA 8/3/18 2:14 LN P-98 P-99 71.0 NAT - P-83 30208.0 F RC 8/3/18 30 30 0 4:12 4:17 P-98 F RC Ρ MA 8/3/18 2:21 LN P-99 17.0 NAT - P-83 30225.0 8/3/18 30 30 0 4:06 4:11 F Ρ MA 8/3/18 3:03 PT P-99 P-83 23.0 P-98 - P-100 30248.0 RC 8/3/18 30 30 0 4:17 4:23 MA 2:17 P-99 P-100 88.0 NAT - P-83 F RC 29 -1 4:20 Ρ 8/3/18 SS 30336.0 8/3/18 30 4:15 8/3/18 3:01 PT P-100 P-83 23.0 P-99 - P-101 30359.0 F RC 8/3/18 30 30 0 4:19 4:24 Ρ MA P-100 NAT - P-83 F RC -1 3:18 3:23 Ρ MA 8/3/18 2:29 SS P-101 88.0 30447.0 8/3/18 30 29 **DS75** P-101 F -1 Ρ MA 8/3/18 2:59 PT P-83 23.0 P-100 - P-102 30470.0 RC 8/3/18 30 29 4:21 4:26 P-101 P-102 88.0 NAT - P-83 F RC 30 0 3:20 Ρ MA 8/3/18 2:27 LN 30558.0 8/3/18 30 3:25 **DS76** F Ρ MA 8/3/18 2:57 PT P-102 P-83 23.0 P-101 - P-103 30581.0 RC 8/3/18 30 30 0 4:23 4:28 P-102 Ρ 8/3/18 2:37 PT P-103 88.0 NAT - P-83 30669.0 F RC 8/3/18 30 29 -1 3:23 3:28 MA **DS77** P-103 8/3/18 2:35 PT P-83 23.0 P-102 - P-104 30692.0 F RC 8/3/18 30 0 3:35 3:40 Ρ MA **DS78** 30 F Ρ MA 8/3/18 P-103 P-104 NAT - P-83 RC 29 -1 4:32 3:18 PT 82.0 30774.0 8/3/18 30 4:37 P-103 F Ρ MA 8/3/18 3:18 PT P-114 14.0 P-104 - P-83 30788.0 RC 8/3/18 30 30 0 4:30 4:35 Ρ MA P-87 F RC 0 1:50 8/3/18 1:44 BV Exis 6.0 30794.0 8/3/18 30 30 1:55 Existing 1:44 F Ρ MA 8/3/18 BV P-87 Exis 5.0 Existing 30799.0 RC 8/3/18 30 30 0 1:54 1:59 8/3/18 BV P-87 30812.0 F RC 0 1:50 1:55 Ρ MA 1:44 Exis 13.0 Existing 8/3/18 30 30 Ρ F RC MA 8/3/18 1:50 BV P-86 Exis 11.0 Existing 30823.0 8/3/18 30 29 -1 1:56 2:01 8/3/18 BV P-86 7.0 30830.0 F RC 8/3/18 30 0 1:58 2:03 Ρ MA 1:51 Exis Existing 30 Ρ F RC 0 8/3/18 3:03 LN P-83 P-114 180.0 W EOS - P-103 31010.0 8/3/18 30 30 4:58 5:03 MA **DS83** PT P-114 P-104 P-103 - P-113 F RC 0 Ρ MA 8/3/18 3:41 18.0 31028.0 8/3/18 30 30 4:43 4:48 Ρ F MA 8/3/18 3:04 SS P-114 - P-113 84.0 P-104 - P-112 31112.0 RC 8/3/18 30 29 -1 5:02 5:07 **DS82** PT P-114 - P-111 F RC -1 Ρ MA 8/3/18 4:01 18.0 W EOS - P-112 31130.0 8/4/18 30 29 8:00 8:05 29 8/3/18 3:34 LN P-110 - P-111 50.0 NAT - P-112 31180.0 F RC 8/4/18 30 -1 7:40 7:45 Ρ MA

Geomembrane Seaming and Non-Destructive Test Summary erraco **Client Name: American Electric Power** Project Number: 35177127 25809 Interstate 30 South Contractor: SFC CQA Monitor: Scott McDonald/Matt Acree Brvant, AR 72022 Project Name: Turk Cell 2 Reviewed By: Tony Bardella Phone: 501.847.9292 Address 3711 HWY 355 S, Fulton AR Approved By: Dave McCormick Fax: 501.847.9210 Location: Cell 2 Liner Installer: ESI PRODUCTION SEAM LOCATION AND DISTANCE Weld NON-DESTRUCTIVE TESTING Vac Accum Air Destruct Type Seamer Seam Length Location Tester Pressure Time QA Time Test Box Date Length No. Fusion/ Date Initials ID Initials Number (ft) From - To P/F Start End +/-P/F (ft) Extrusion Start End P-110 - P-115 8/3/18 3:55 PT 14.0 P-109-P112 31194.0 F RC 8/4/18 30 0 7:35 7:40 Ρ MA 30 P-110 - P-112 8/3/18 F RC 7:53 Ρ MA 3:57 PT 21.0 P-115 - P-111 31215.0 8/4/18 30 30 0 7:48 8/3/18 3:40 SS P-110 - P-109 24.0 NAT - P-115 31239.0 F RC 8/4/18 30 30 0 7:24 7:29 Ρ MA 8/3/18 P-114 - P-112 Ρ MA 3:14 SS 64.0 P-111 - P-113 31303.0 F RC 8/3/18 30 30 0 5:00 5:05 P-111 P-112 F RC Ρ MA 8/3/18 3:59 PT 10.0 P-114 - P-110 31313.0 8/4/18 30 30 0 7:51 7:56 P-113 - P-112 F Ρ MA 8/3/18 3:20 PT 23.0 P-114 - P-115 31336.0 RC 8/4/18 30 29 -1 7:13 7:18 MA 3:28 P-113 - P-115 P-105 - P-112 31390.0 F RC 30 0 7:11 7:16 Ρ 8/3/18 LN 54.0 8/4/18 30 8/3/18 3:37 PT P-113 - P-105 31.0 P-104 - P-115 31421.0 F RC 8/4/18 30 29 -1 7:00 7:05 Ρ MA P-113 - P-104 P-114 - P-105 F RC 0 4:50 4:55 Ρ MA 8/3/18 3:39 PT 10.0 31431.0 8/3/18 30 30 P-109 - P-115 8/3/18 3:53 PT 28.0 P-108 - P-110 31459.0 F RC 8/4/18 30 0 7:28 7:33 Ρ MA 30 P-109 NAT - P-115 F Р MA 8/3/18 3:48 SS - P-108 11.0 31470.0 RC 8/4/18 30 29 -1 7:17 7:22 8/3/18 3:51 PT P-108 - P-115 25.0 P-107 - P-109 31495.0 F RC 8/4/18 30 0 7:55 8:00 Ρ MA 30 P-108 - P-107 F RC -1 Ρ MA 8/3/18 3:41 LN 11.0 NAT - P-115 31506.0 8/4/18 30 29 7:09 7:14 8/3/18 3:48 PT P-107 P-115 14.0 P-108 - P-106 31520.0 F RC 8/3/18 30 0 7:08 7:13 Ρ MA 30 F Р 8/3/18 PT P-107 - P-106 NAT - P-115 31532.0 RC 8/4/18 0 7:05 7:10 MA 3:45 12.0 30 30 8/3/18 3:35 PT P-106 P-115 27.0 P-105 - P-107 31559.0 F RC 8/3/18 30 30 0 3:45 3:50 Ρ MA **DS79** P-106 P-105 NAT - P-115 F Ρ MA 8/3/18 2:53 32.0 31591.0 RC 8/4/18 30 0 7:02 7:07 LN 30 Ρ MA 8/3/18 2:50 SS P-105 - P-104 53.0 NAT - P-113 31644.0 F RC 8/3/18 30 30 0 4:52 4:57 P-105 P-104 F Ρ MA 8/3/18 2:50 SS 0.0 NAT - P-113 31644.0 RC 8/3/18 30 30 0 4:35 5:40 P-114 P-112 F Ρ MA 8/3/18 3:15 LN 60.0 P-113 - P-111 31704.0 RC 8/3/18 30 29 -1 7:07 7:12 8/3/18 3:32 LN P-112 - P-115 37.0 P-113 - P-110 F RC 8/3/18 30 29 -1 7:07 7:12 Ρ MA 31741.0



APPENDIX O GEOMEMBRANE DESTRUCTIVE TEST LOG SUMMARY & LABORATORY TEST RESULTS

Geom Clier Co Projec L	nembr nt Name: ntractor: ct Name: Address: .ocation:	American E SFC Turk Cell 2 3711 HWY Cell 2	Structiv	tL Pro (F Li	ject Num CQA Mon Reviewect Approvect iner Insta	Imma iber: 351 itor: Scc I By: Ton I By: Dav iller: ESI	ry 77127 tt McDona y Bardella e McCorr	ald/Matt / a nick	Acree	Destructive Tes Peel Extrusion = Shear Extrusion = Peel Fusion = Shear Fusion =	ting Specifications 78 121 98 121	25809 Interstate 30 South Bryant, AR 72022 Phone: 501.847.9292 Fax: 501.847.9210	
Date	Sample	Seam	Machine	Seamer			Te	st Values			Field	Lab Base/Fail	O amagentally a settion
	שו	Number	Number	Initials		110 110			106 00	111116	Pass/Fall	Pass/Fall	Comments/Location
7/14/18	DS-1	P2/P3	4181	PT	P S	135	131	133	134	130	Р	Р	72' SAT
7/14/18	DS-2	P3/P4	4153	LN	P	99 117	102 117	98 113	103 117	112 119	Р	Р	20' SAT
					3	100 105	111/110	140	112 110	10/			
7/14/18	DS-3	P8/P9	4179	SS	S	140	139	141	138	136	Р	Р	73' SAT
7/14/18	DS-4	P9/P10	4153	LN	P	100 121	99 109	95 121	102 111	97 115	Р	Р	85'SAT
					5	135	132	133	137	135	Р		
7/14/18	DS-5	P10/P11	4153	LN	Р S	108 99	100 107	101 109	138	104 108		Р	69'SAT
7/14/18	DS-6	P12/P13	4181	PT	Ρ	100 98	105 111	109 102	99 100	99 110	Р	Р	76'SAT
771 // 10	000	1 12/1 10	1101		S	133	133	130	132	134		 	100/11
7/14/18	DS-7	P15/P16	4181	PT	P	103 102	100 99	102 99	104 98	111 100	Р	Р	82' FROM W.EOS
			1			133		102 114	00 112	132	Р		
7/14/18	DS-8	P34/P35	4179	SS	Р S	130	132	129	133	120 100		Р	165' FROM W.EOS
					P	116 103	98 117	120 110	99 114	115 121			
7/14/18	DS-9	P32/P34	4181	PT	S	129	134	136	132	135	Р	Р	168' FROM W.EOS
7/1//18	DS-10	D35/D37	/181	DT	Р	106 111	100 113	105 117	109 116	118 102	D	Р	
7/14/10	03-10	F 33/F 37	4101	ГІ	S	130	132	128	127	131	Г	Г	
7/14/18	DS-11	P30/P42	4181	PT	Ρ	99 102	98 113	115 103	114 98	99 100	P	P	210' FROM W EOS
7/14/10	0011	1 00/1 42	4101	1 1	S	126	128	131	129	132	I	I	210 11(0)// W.200
7/14/18	DS-12	P37/P38	4179	SS	Ρ	111 106	109 118	119 117	114 98	99 112	Р	Р	180' FROM W FOS
.,	50.5	1 57/1 50			S	131	133	134	136	133	•	•	100 1100 1000
7/14/18	DS-13	P42/P43	4179	SS	P	121 119	108 116	107 110	100 118	120 106	Р	Р	250' FROM W.EOS
	DS-14		4153		3	102 110	105 112		102 116	129	P		10'P-10
7/14/18		P9/P36		LN	9	103 118	127	130	132	130		Р	
					P	101 116	104 100	102 99	98 102	104 111			
7/16/18	DS-15	P43/P44	4181	PT	s	129	126	127	130	128	Р	Р	190' FROM W.EOS
Geom	embr	ane De	structiv	ve Tes	t L	og Su	umma	ry					25809 Interstate 30 South
---------	-----------	-------------	--------------	----------	--------	------------	-----------------	------------	------------	---------	-------------------	----------------------	---------------------------
Clier	nt Name:	American E	lectric Powe	er	Pro	ject Num	ber: <u>351</u>	77127			Destructive Tes	sting Specifications	Bryant, AR 72022
Co	ntractor:	SFC			C	CQA Mon	itor: Sco	tt McDon	ald/Matt A	Acree	Peel Extrusion =	78	Phone: 501.847.9292
Projec	ct Name:	Turk Cell 2			F	Reviewed	By: Ton	y Bardella	a		Shear Extrusion =	121	Fax: 501.847.9210
	Address:	3711 HWY	355 S, Fulto	on AR	4	Approved	By: Dav	e McCorr	nick		Peel Fusion =	98	
L	ocation:	Cell 2			Li	iner Insta	aller: ESI				Shear Fusion =	121	
Date	Sample	Seam	Machine	Seamer			Tes	st Values			Field	Lab	
Dute	ID	Number	Number	Initials				os/inch			Pass/Fail	Pass/Fail	Comments/Location
7/16/18	DS-16	P44/P45	4153	LN	Р	103 103	103 101	99 98	98 107	100 112	Р	P	220' FROM W/ FOS
7/10/10	00 10	1 ++/1 +5	4100		S	129	131	128	130	132	1	1	220 11(001110).200
7/16/18	DS-17	D15/D16	1110	22	Ρ	111 101	99 103	106 102	100 99	98 113	P	P	
7/10/10	03-17	F43/F40	4149	- 55	S	129	134	127	126	131	Г	Г	230 T KOW W.E03
7/16/10	DC 10		4101	рт	Ρ	103 98	100 98	111 105	101 104	102 100	Р	Р	
//10/10	D3-10	F40/F47	4101	ΓI	S	127	129	130	126	132	F	F	260 FROM W.EUS
7/46/40	DC 10		4450		Р	99 112	100 99	101 108	98 112	103 110	Р		
//10/10	DS-19	F47/F40	4155	LIN	S	131	129	128	132	126		FAIL	310 FROM W.EOS
7/40/40	DO 404	D47/D40	44.50	1.51	Р	112 108	109 98	117 110	113 120	104 112	D	D	
7/18/18	DS-19A	P47/P48	4153	LN	S	131	129	132	130	127	Р	Р	320° FROM W.EOS
					Р	103 111	110 99	106 115	114 107	105 101	_	_	
7/18/18	DS-19B	P47/P48	4153	LN	S	127	130	129	128	131	Р	Р	295' FROM W.EOS
					P	103 105	105 98	98 107	98 115	99 118	_	_	
7/16/18	DS-20	P48/P49	4179	SS	S	126	127	130	129	132	Р	Р	340' FROM W.EOS
					P	103 109	96 110	100 105	113 104	118 109			
7/16/18	DS-21	P49/P50	4181	PT	5	133	131	128	129	130	P	FAIL	376' FROM W.EOS
					P	105 109	117 121	110 106	110 116	113 102			
7/18/18	DS-21A	P49/P50	4181	PT	9	130	128	132	131	133	Р	Р	380' FROM W.EOS
			ł			111 116	103 114	115 119	119 102	110 112			
7/18/18	DS-21B	P49/P50	4181	PT	Г С	122	120	127	121	120	Р	Р	360' FROM W.EOS
					5	132	105 102		105 110	129			
7/16/18	DS-22	P50/P51	4153	LN	P	113 100	105 102	120	105 112	90 100	Р	Р	401' FROM W.EOS
					5	120	127	130	129	132			
7/16/18	DS-23	P51/P52	4179	SS		99 101	106 100	98 111	100 110	102 113	Р	Р	430' FROM W.EOS
					2	128	129	130	132	128			
7/16/18	DS-24	P52/P53	4181	PT	P	98 106	98 99	99 104	100 98	105 114	Р	Р	455' FROM W.EOS
		-			S	128	126	128	129	130			
7/16/18	DS-25	P53/P54	4153	LN	P	103 99	98 99	109 99	104 103	99 110	Р	Р	486' FROM W.EOS
					S	130	128	132	131	127			
7/16/18	DS-26	P54/P55	4181	PT	Р	99 100	104 101	99 106	99 102	99 109	Р	Р	510' FROM W FOS
.,	2020	,			S	129	127	129	131	132		· ·	

Georr	nembr	ane De	structiv	ve Tes	t L	og Su	umma	iry				1	Eccación 25809 Interstate 30 South
Clier	nt Name:	American E	lectric Powe	er	Pro	ject Num	nber: <u>35</u> 1	77127			Destructive Tes	sting Specifications	Bryant, AR 72022
Co	ntractor:	SFC			C	CQA Mon	itor: Sco	ott McDona	ald/Matt A	Acree	Peel Extrusion =	78	Phone: 501.847.9292
Proje	ct Name:	Turk Cell 2			F	Reviewed	By: Tor	ny Bardella	à		Shear Extrusion =	121	Fax: 501.847.9210
	Address:	3711 HWY :	355 S, Fulto	on AR	ŀ	Approvec	d By: <u>Dav</u>	ve McCorr	nick		Peel Fusion =	98	_
L	ocation:	Cell 2			Li	iner Insta	aller: ES				Shear Fusion =	121	_
	Sample	Seam	Machine	Seamer			Te	st Values			Field	Lab	
Date	ID	Number	Number	Initials			I	bs/inch			Pass/Fail	Pass/Fail	Comments/Location
7/16/18	DS-27	P55/P56	4153	LN	P	99 107	106 111	99 112	102 117	106 105	Р	Р	490' FROM W.EOS
					P	107 100	101 105	5 99 104	102 103	106 99			
7/16/18	DS-28	P55/P56	4153	LN	S	133	132	127	130	131	Р	Р	36' FROM W.EOS
7/16/18	DS-20	D56/D57	<i>/</i> 170	22	Ρ	102 100	106 102	2 104 106	98 108	104 99	D	D	
7/10/10	D3-29	F30/F37	4179		S	127	133	130	129	132	Г 	F	80 FROM W.EOS
7/16/18	DS-30	P57/P58	4181	PT	Ρ	99 104	104 108	3 103 107	98 107	98 111	Р	Р	110' FROM W.EOS
					S	131	129	133	132	128			
7/16/18	DS-31	P58/P59	4153	LN	P	98 114	98 111	120	102 107	110 102	Р	Р	140' FROM W.EOS
					P	100 96	99 104	129	99 112	102 110			
7/16/18	DS-32	P59/P60	4179	SS	S	131	128	132	129	131	Р	Р	160' FROM W.EOS
7/16/18	DS-33	P56/TIF IN	4181	PT	Ρ	110 117	112 106	6 113 106	110 107	109 105	Р	Р	P56 4' FROM 57
7710/10	00 00	1.00/112 111	4101		S	134	133	131	130	132	•	'	100 4 11(0)(10)
7/16/18	DS-34	R63/P46	215	BV	Ρ	101 -	116 -	115 -	106 -	117 -	Р	Р	ETI ON P46
					S	132	133	130	129	132			
7/16/18	DS-35	DS25/P53	5173	AF	P S	110 -	109 -	103 -	118 -	122 -	Р	Р	DS25 ON P53 SIDE
					P	101 104	99 104	140	97 99	112 107			
7/16/18	DS-36	P54/P55	4181	PT	S	133	130	129	128	132	Р	Р	110' FROM W.EOS
7/16/18	DS-37	D56/D57	1170	22	Ρ	110 102	101 99	106 113	101 97	99 107	D	D	
7/10/10	03-37	F J0/F J <i>1</i>	4179		S	126	128	131	132	129	F	F	110 11(0101 00.203
7/19/18	DS-38	P60/P61	4181	PT	Ρ	101 106	100 101	110 104	107 105	114 102	Р	Р	510' FROM W.EOS
.,					S	131	130	127	129	130	-		
7/19/18	DS-39	P61/P62	4179	SS	P	102 115	99 121	111 107	11/ 102	100 112	Р	Р	510' FROM W.EOS
					5	134	102 113	128	102 112	133			
7/19/18	DS-40	P62/P63	4153	LN	S	130	127	129	131	132	Р	Р	515' FROM W.EOS
7/40/40	DO 11		4404	DT	P	114 100	108 106	<u>5 99 104</u>	107 106	105 102			
7/19/18	DS-41	P60/P61	4181		S	129	131	133	127	130	Ч	Р	85 FROM W.EOS
7/10/19	DS-42	P61/P62	<i>4</i> 170	22	Ρ	103 102	105 109	0 100 103	107 99	108 103	P	D	85' FROM W/ FOS
1/19/10	03-42	101/F02	4173		S	131	126	127	130	129	Г	Г	

Geom	nembr	ane De	structiv	ve Tes	t L	og Su	umma	ry					25809 Interstate 30 South
Clier	nt Name:	American El	lectric Powe	ər	Pro	ject Num	ber: <u>351</u>	77127			Destructive Tes	ting Specifications	Bryant, AR 72022
Со	ntractor:	SFC			C	CQA Mon	itor: Sco	tt McDona	ald/Matt A	\cree	Peel Extrusion =	78	Phone: 501.847.9292
Projec	ct Name:	Turk Cell 2			F	Reviewed	I By: Ton	y Bardella	1 I		Shear Extrusion =	121	Fax: 501.847.9210
	Address:	3711 HWY 3	355 S, Fulto	on AR	ŀ	Approved	By: Dav	e McCorn	nick		Peel Fusion =	98	
L	ocation:	Cell 2			Li	iner Insta	aller: ESI				Shear Fusion =	121	
Date	Sample ID	Seam Number	Machine Number	Seamer Initials			Te: II	st Values bs/inch			Field Pass/Fail	Lab Pass/Fail	Comments/Location
7/19/18	DS-43	P62/P63	4153	LN	P S	103 106 132	100 102 129	115 104 130	99 112 128	115 100 131	Р	Р	85' FROM W.EOS
7/19/18	DS-44	P63/P64	4181	PT	P S	101 107 131	113 114 131	104 100 130	112 105 132	112 108 129	Р	Р	415' FROM W.EOS
7/19/18	DS-45	P64/P65	4179	SS	P S	103 109 128	119 108 130	107 105 126	117 106 132	101 107 131	Р	Р	415' FROM W.EOS
7/19/18	DS-46	P65/P66	4153	LN	P S	104 105 129	119 105 129	106 99 131	112 99 128	107 110 130	Р	Р	415' FROM W.EOS
7/19/18	DS-47	P66/P67	4189	PT	P S	118 103 131	111 111 129	106 99 132	109 102 127	110 114 129	Р	Р	205' FROM W.EOS
7/19/18	DS-48	P67/P68	4179	SS	P S	99 107 132	111 117 128	108 109 130	115 118 129	103 115 132	Р	Р	205' FROM W.EOS
7/19/18	DS-49	P68/P69	4153	LN	P S	100 110 127	106 104 128	100 103 127	103 113 130	116 107 131	Р	Р	205' FROM W.EOS
7/19/18	DS-50	P66/P67	4181	PT	P S	103 106 133	113 109 128	107 101 132	100 99 129	103 102 133	Р	Р	520' FROM W.EOS
7/19/18	DS-51	P67/P68	4179	SS	P S	112 101 130	105 112 132	100 107 129	99 108 131	105 113 132	Р	Р	515' FROM W.EOS
7/19/18	DS-52	P68/P69	4153	LN	P S	110 112 131	112 109 130	103 110 133	100 103 128	103 114 127	Р	Р	515' FROM W.EOS
7/19/18	DS-53	P69/P70	4181	PT	P S	109 99 130	111 102 132	108 103 127	109 105 131	107 108 129	Р	Р	420' FROM W.EOS
7/19/18	DS-54	P70/P71	4171	SS	P S	106 112 128	116 110 128	110 111 130	116 120 129	111 106 133	Р	Р	420' FROM W.EOS
7/19/18	DS-55	P71/P72	4153	LN	P S	100 103 131	109 101 128	105 109 132	112 113 134	104 109 133	Р	Р	420' FROM W.EOS
7/19/18	DS-56	P72/P73	4181	PT	P S	105 102 130	111 100 128	106 99 131	103 105 129	110 112 132	Р	Р	380' FROM W.EOS
7/19/18	DS-57	P67/TIE IN	4181	PT	P S	131 130 135	121 125 133	116 121 131	128 117 134	129 132 135	Р	Р	At Tie In
8/3/18	DS-58	P73/P74	4181	PT	P S	110 107 133	112 103 130	116 120 134	121 109 135	110 121 132	Р	Р	85' FROM W.EOS

Geom	nembr	ane De	structiv	ve Tes	t L	og Sı	umma	ry					25809 Interstate 30 South
Clier	nt Name:	American E	lectric Powe	er	Proj	ject Num	nber: <u>351</u>	77127			Destructive Tes	ting Specifications	Bryant, AR 72022
Co	ntractor:	SFC			C	CQA Mon	itor: Sco	ott McDona	ald/Matt A	Acree	Peel Extrusion =	78	Phone: 501.847.9292
Proje	ct Name:	Turk Cell 2			R	Reviewed	By: Ton	y Bardella	à		Shear Extrusion =	121	Fax: 501.847.9210
	Address:	3711 HWY	355 S, Fulto	on AR	A	Approved	By: Dav	e McCorr	nick		Peel Fusion =	98	_
L	ocation:	Cell 2			Li	ner Insta	aller: ESI				Shear Fusion =	121	
Date	Sample ID	Seam Number	Machine Number	Seamer Initials			Te: II	st Values bs/inch			Field Pass/Fail	Lab Pass/Fail	Comments/Location
8/3/18	DS-59	P74/P75	4179	SS	P S	117 108 135	115 112 136	119 112 131	122 108 133	117 123 134	Р	Р	85' FROM W.EOS
8/3/18	DS-60	P75/P76	4153	LN	P S	123 101 132	106 115 134	121 111 130	110 121 132	107 113 136	Р	Р	85' FROM W.EOS
8/3/18	DS-61	P79/P80	4181	PT	P S	106 110 129	114 116 131	118 121 133	119 121 135	122 107 130	Р	Р	90' FROM W.EOS
8/3/18	DS-62	P80/P81	4179	SS	P S	112 106 134	115 111 136	119 110 137	120 102 132	103 115 134	Р	Р	90' FROM W.EOS
8/3/18	DS-63	P81/P82	4153	LN	P S	109 116 132	118 111 129	120 103 131	104 115 133	116 119 134	Р	Р	85' FROM W.EOS
8/3/18	DS-64	P82/P83	4181	PT	P S	122 110 130	114 119 132	117 123 134	124 116 135	109 114 131	Р	Р	85' FROM W.EOS
8/3/18	DS-65	P76/P77	4181	PT	P S	102 113 133	116 105 135	109 116 136	123 109 137	119 120 132	Р	Р	180' FROM W.EOS
8/3/18	DS-66	P77/P78	4179	SS	P S	122 108 132	106 110 128	111 121 134	112 116 132	119 117 129	Р	Р	180' FROM W.EOS
8/3/18	DS-67	P78/P79	4153	LN	P S	120 103 134	104 117 131	122 112 136	114 115 130	122 106 133	Р	Р	180' FROM W.EOS
8/3/18	DS-68	P82/P83	4153	LN	P S	110 116 130	112 119 132	108 115 135	111 121 130	122 109 131	Р	Р	450' FROM W.EOS
8/3/18	DS-69	P79/P80	4181	PT	P S	113 118 128	108 116 131	109 121 129	107 114 133	113 111 134	Р	Р	520' FROM W.EOS
8/3/18	DS-70	P80/P81	4179	SS	P S	116 119 132	120 106 130	07 113 133	102 110 131	99 115 130	Р	Р	520' FROM W.EOS
8/3/18	DS-71	P81/P82	4153	LN	P S	121 108 131	107 113 134	104 116 129	115 113 132	120 106 133	Ρ	Ρ	520' FROM W.EOS
8/3/18	DS-72	P90/P91	4179	SS	P S	101 111 133	110 113 135	103 115 131	117 120 132	99 119 130	Р	Р	15' NAT
8/3/18	DS-73	P91/P92	4153	LN	P S	122 111 129	119 107 132	117 110 130	105 114 129	112 106 133	Р	Р	15' NAT
8/3/18	DS-74	P93/P94	4181	PT	P S	109 110 131	111 116 130	112 119 132	122 114 133	107 113 131	Р	Р	15' NAT

Georr	nembr	ane De	structiv	ve Tes	t L	og S	um	ma	ry					ור	25809 Interstate 30 South
Clier	nt Name:	American E	lectric Powe	er	Pro	ject Nu	nber	: <u>351</u>	77127				Destructive Tes	ting Specifications	Bryant, AR 72022
Co	ntractor:	SFC			C	QA Mo	nitor	: <u>Sco</u>	tt McDon	ald/N	/latt A	cree	Peel Extrusion =	78	Phone: 501.847.9292
Proje	ct Name:	Turk Cell 2			F	Reviewe	d By	: Ton	y Bardell	а			Shear Extrusion =	121	Fax: 501.847.9210
	Address:	3711 HWY	355 S, Fulto	on AR	A	Approve	d By	: Dav	e McCor	mick			Peel Fusion =	98	
L	ocation:	Cell 2			Li	ner Inst	aller	: ESI					Shear Fusion =	121	
															- 11
Date	Sample ID	Seam Number	Machine Number	Seamer Initials				Tes II	st Values bs/inch	5			Field Pass/Fail	Lab Pass/Fail	Comments/Location
8/3/18	DS-75	P100/P101	4179	SS	P S	121 11 128	4 112	2 117 31	120 109	99	108 33	109 112 132	Р	Р	15' NAT
8/3/18	DS-76	P101/P102	4153	LN	P	108 11 133	3 118	3110	109 121	102	114 29	115 120 130	Р	Р	15' NAT
8/3/18	DS-77	P102/P103	4181	PT	P	122 10 133	9 113	3117	120 100	5 103 1	 110 37	114 105 134	Р	Р	15' NAT
8/3/18	DS-78	P83/P103	4181	PT	P	122 11 136	8 125	5 109 34	110 120) 107	115	122 108	Р	Р	7' E OF P104
8/3/18	DS-79	P106/P115	4181	PT	P S	125 12 133	2 119) 127 35	130 123	3 125 1	132 37	133 127 136	Р	Р	11' S OF P107
8/3/18	DS-80	P86/P90	4153	LN	P S	129 13 135	0 125	5 132 37	118 123	3 124 1	133 34	134 120 135	P	Р	17' N OF P85
8/3/18	DS-81	P81/TIE IN	4217	BV	P S	132 12 133	4 119) 127 36	128 130 134) 131	129 35	122 126 132	Р	Р	6' N OF P80
8/3/18	DS-82	P113/P114	4179	SS	P S	110 10 134	2 103	3 116 32	115 110 135) 113 1	120 30	117 119 133	Р	Р	11' E OF P112
8/3/18	DS-83	P83/P114	4153	LN	P S	122 11 132	3 116	6 118 34	119 123 130	3 110 1	107 33	109 121 132	Р	Р	88' FROM W.EOS
8/4/18	DS-84	P81/R175	5173	AF	P S	132 - 145	114	4 - 46	126 - 143	131 1	- 47	115 - 144	Р	Р	520' FROM W.EOS
8/4/18	DS-85	P114/R 258	215	BV	P S	114 - 129	120) - 33	117 - 132	126 1	- 35	123 - 131	Р	Р	88' FROM W.EOS
										-					



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39344

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-1 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	129	125	114	115	118	120
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	117	105	119	106	109	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	153	155	151	140	156	151
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-2 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	99	110	105	107	105	105
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	126	135	127	137	133	132
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	158	158	154	148	158	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39344

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-3 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	127	113	101	113	124	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	116	118	111	117	123	117
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	162	160	158	163	159	160
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-4 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	112	110	113	110	123	114
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	128	124	131	126	122	126
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	154	156	153	156	157	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39344

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-5 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	105	103	106	109	108	106
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	117	129	128	121	125	124
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	158	157	157	153	152	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-6 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	112	116	112	114	117	114
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	121	122	121	121	120	121
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	154	153	155	152	160	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	-

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Page: 4 of 8



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39344

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-7 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	121	114	120	113	113	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	117	113	118	121	105	115
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	152	154	153	152	150	152
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-8 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	109	110	119	106	113	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	115	112	118	126	116	117
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	154	153	156	152	154	154
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39344

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-9 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	104	107	109	106	110	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	120	113	113	113	113	114
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	160	156	155	155	158	157
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-10 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	129	109	107	127	109	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	114	127	110	120	126	119
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	155	161	157	159	159	158
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39344

		TEST	REPLICATE N	TEST REPLICATE NUMBER						
PARAMETER	1	2	3	4	5	MEAN				
Sample ID: DS-11 Weld: Heat Fusion										
Side: A						Peel A				
Peel Strength (ppi)	111	109	107	110	110	109				
Peel Incursion (%)	<5	<5	<5	<5	<5					
Peel Locus Of Failure Code	SE	SE	SE	SE	SE					
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB					
Side: B						Peel B				
Peel Strength (ppi)	126	127	103	102	123	116				
Peel Incursion (%)	<5	<5	<5	<5	<5					
Peel Locus Of Failure Code	SE	SE	SE	SE	SE					
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB					
Shear						Shear				
Shear Strength (ppi)	155	159	155	151	159	156				
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50					

Sample ID: DS-12 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	125	114	116	108	113	115
Peel Incursion (%)	<5	<5	<5	<5	<5	<u> </u>
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	115	120	127	112	118	118
Peel Incursion (%)	<5	<5	<5	<5	<5	<u> </u>
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	158	155	159	155	160	157
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39344

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-13 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	112	113	109	111	114	112
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	128	123	136	130	133	130
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	155	151	156	154	159	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-14 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	127	130	132	129	126	129
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	126	135	131	127	123	128
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	151	150	151	154	152	152
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	·



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-15 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	105	104	106	104	104	105
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	104	134	105	105	105	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	158	158	156	154	154	156
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-16 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	108	103	102	105	108	105
Peel Incursion (%)	<5	<5	<5	<5	<5	<u> </u>
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	124	125	113	127	119	122
Peel Incursion (%)	<5	<5	<5	<5	<5	<u> </u>
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	136	154	151	149	149	148
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 2 of 13



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	TEST REPLICATE NUMBER						
PARAMETER	1	2	3	4	5	MEAN				
Sample ID: DS-17 Weld: Heat Fusion										
Side: A						Peel A				
Peel Strength (ppi)	104	104	105	104	103	104				
Peel Incursion (%)	<5	<5	<5	<5	<5					
Peel Locus Of Failure Code	SE	SE	SE	SE	SE					
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB					
Side: B						Peel B				
Peel Strength (ppi)	122	125	132	125	124	126				
Peel Incursion (%)	<5	<5	<5	<5	<5					
Peel Locus Of Failure Code	SE	SE	SE	SE	SE					
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB					
Shear						Shear				
Shear Strength (ppi)	151	124	147	149	152	145				
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50					

Sample ID: DS-18 Weld: Heat Fusion	1					
Side: A						Peel A
Peel Strength (ppi)	99	109	115	112	99	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	118	113	113	118	121	117
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	140	148	149	147	148	146
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-19 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	105	107	111	108	117	110
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	96	92	95	96	100	96
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	149	151	146	146	146	148
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-20 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	100	109	112	109	107	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	127	130	119	126	115	123
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	150	155	151	151	148	151
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 4 of 13



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-21 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	99	104	98	102	96	100
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	97	114	98	101	86	99
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	154	154	152	151	153	153
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-22 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	103	103	108	103	101	104
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	128	123	134	118	119	124
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	159	165	163	160	166	163
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	-

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 5 of 13



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-23 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	107	117	110	110	106	110
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	115	111	104	110	116	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	157	158	155	158	157
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-24 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	100	103	101	97	101	100
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	124	134	102	120	128	122
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	159	157	160	155	158	158
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 6 of 13



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-25 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	111	109	103	118	113	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	131	107	106	112	133	118
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	160	156	156	156	155	157
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-26 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	122	116	120	131	128	123
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	115	121	133	121	128	124
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	151	154	152	154	153	153
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-27 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	120	129	117	111	129	121
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	129	127	127	123	136	128
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	150	151	155	152	152	152
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-28 Weld: Heat Fusion	1					
Side: A						Peel A
Peel Strength (ppi)	107	110	127	119	116	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	119	131	122	125	127	125
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	163	161	160	161	160	161
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-29 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	117	117	124	113	120	118
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	122	111	117	117	112	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	156	159	155	154	157	156
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-30 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	106	103	108	100	106	105
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	122	121	121	124	120	122
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	155	156	152	155	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 9 of 13



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

	TEST REPLICATE NUMBER						
PARAMETER	1	2	3	4	5	MEAN	
Sample ID: DS-31 Weld: Heat Fusion							
Side: A						Peel A	
Peel Strength (ppi)	105	107	106	125	101	109	
Peel Incursion (%)	<5	<5	<5	<5	<5		
Peel Locus Of Failure Code	SE	SE	SE	SE	SE		
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side: B						Peel B	
Peel Strength (ppi)	129	135	128	122	126	128	
Peel Incursion (%)	<5	<5	<5	<5	<5		
Peel Locus Of Failure Code	SE	SE	SE	SE	SE		
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Shear						Shear	
Shear Strength (ppi)	150	149	148	148	151	149	
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

Sample ID: DS-32 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	108	111	108	109	111	109
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	119	117	112	115	111	115
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	161	161	163	157	162	161
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 10 of 13



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-36 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	108	105	107	108	106	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	120	120	117	120	125	120
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	155	154	154	158	156
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-37 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	112	109	104	109	102	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	108	109	106	110	102	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	160	159	158	160	159	159
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 11 of 13



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-33 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	124	134	127	124	124	127
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	136	129	136	118	136	131
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	145	142	145	140	147	144
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39333

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-34 Weld: Single Extrusion	on					
Side: Peel						Peel
Peel Strength (ppi)	119	114	117	113	118	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	138	133	137	134	132	135
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID: DS-35 Weld: Single Extrusi	on					
Side: Peel						Peel
Peel Strength (ppi)	124	128	116	93	124	117
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	163	160	156	159	159	159
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39442

		TEST	REPLICATE N	TEST REPLICATE NUMBER						
PARAMETER	1	2	3	4	5	MEAN				
Sample ID: DS-19A Weld: Heat Fusion										
Side: A						Peel A				
Peel Strength (ppi)	115	114	110	113	112	113				
Peel Incursion (%)	<5	<5	<5	<5	<5					
Peel Locus Of Failure Code	SE	SE	SE	SE	SE					
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB					
Side: B						Peel B				
Peel Strength (ppi)	113	112	118	117	112	114				
Peel Incursion (%)	<5	<5	<5	<5	<5					
Peel Locus Of Failure Code	SE	SE	SE	SE	SE					
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB					
Shear						Shear				
Shear Strength (ppi)	158	158	159	156	158	158				
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50					

Sample ID: DS-19B Weld: Heat Fusio	on					
Side: A						Peel A
Peel Strength (ppi)	111	112	110	107	116	111
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	114	114	113	120	105	113
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	159	156	155	157	157
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39442

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-21A Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	111	115	117	115	109	113
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	113	128	114	117	121	119
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	159	161	161	160	157	160
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-21B Weld: Heat Fusio	n					
Side: A						Peel A
Peel Strength (ppi)	117	120	109	115	120	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	122	118	111	112	122	117
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	161	165	163	161	162	162
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-38 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	113	110	114	113	111	112
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	118	116	105	125	107	114
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	152	144	151	149	152	150
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-39 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	107	119	114	108	113	112
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	125	134	121	128	125	127
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	153	156	154	158	152	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 2 of 11



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-40 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	117	104	106	119	103	110
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	115	107	107	108	110	109
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	159	159	157	159	157	158
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-41 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	105	108	105	112	104	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	122	116	117	109	125	118
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	149	150	155	150	144	150
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 3 of 11



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-42 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	108	107	105	105	109	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	134	133	123	127	127	129
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	151	156	153	156	155	154
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-43 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	115	109	107	116	107	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	117	104	104	125	121	114
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	160	159	158	152	161	158
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 4 of 11



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-44 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	114	115	112	113	109	113
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	126	121	123	126	125	124
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	159	158	156	159	158	158
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-45 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	124	137	129	128	127	129
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	116	119	121	120	131	121
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	153	154	156	158	155	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-46 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	107	109	108	106	109	108
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	101	123	112	107	103	109
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	150	156	157	159	156
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-47 Weld: Heat Fusion	1					
Side: A						Peel A
Peel Strength (ppi)	122	117	108	117	127	118
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	125	126	133	125	125	127
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	161	158	156	161	157	159
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 6 of 11



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-48 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	116	119	104	111	113	113
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	129	120	129	111	121	122
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	159	163	161	161	164	162
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-49 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	106	119	114	109	113	112
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	109	109	109	113	108	110
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	155	155	155	153	156	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-50 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	126	124	114	113	125	120
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	112	115	120	114	115	115
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	160	163	161	161	161	161
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-51 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	130	133	111	130	123	125
Peel Incursion (%)	<5	<5	<5	<5	<5	<u> </u>
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	124	121	117	118	129	122
Peel Incursion (%)	<5	<5	<5	<5	<5	<u> </u>
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	160	163	161	162	161	161
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-52 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	111	114	117	116	107	113
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	116	115	121	117	125	119
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	156	156	154	157	156
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-53 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	119	118	112	130	113	118
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	126	130	132	130	131	130
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	158	158	156	159	158
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-54 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	105	111	109	110	111	109
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	124	126	130	125	120	125
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	152	155	155	152	155	154
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-55 Weld: Heat Fusion	1					
Side: A						Peel A
Peel Strength (ppi)	110	114	113	107	116	112
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	107	133	118	117	106	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	162	158	161	159	160	160
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 10 of 11



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39477

PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-56 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	107	111	114	112	112	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	106	106	110	112	111	109
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	160	147	159	159	163	158
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-57 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	146	134	137	146	153	143
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	150	148	149	152	152	150
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	151	152	151	149	152	151
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 11 of 11


Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-58 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	110	116	113	109	120	114
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	115	128	113	117	118	118
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	160	160	160	157	159
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-59 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	110	112	109	108	115	111
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	118	122	110	123	116	118
Peel Incursion (%)	<5	<5	<5	<5	<5	-
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	155	157	156	154	157	156
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	-

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 2 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-60 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	108	106	119	106	130	114
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	119	112	117	127	124	120
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	154	159	158	159	156	157
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-61 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	107	108	110	119	116	112
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	128	123	116	131	118	123
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	153	155	157	154	154	155
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 3 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-62 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	115	127	119	119	121	120
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	121	113	117	115	122	118
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	161	159	160	158	159
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-63 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	140	118	132	117	126	127
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	129	128	127	133	130	129
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	153	155	156	154	154	154
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 4 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-64 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	108	110	109	111	115	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	114	106	103	108	105	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	157	158	161	158	159	159
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-65 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	112	108	112	107	111	110
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	101	121	107	121	127	115
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	152	155	154	150	156	153
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 5 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-66 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	119	118	114	124	131	121
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	122	118	118	118	117	119
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	156	159	159	159	158	158
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-67 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	132	121	119	119	134	125
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	108	106	123	108	111	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	158	159	162	160	159	160
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-68 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	117	120	113	115	123	118
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	105	112	102	111	110	108
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	156	160	154	156	157	157
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-69 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	103	128	108	113	111	113
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	107	119	105	118	110	112
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	154	159	154	157	156	156
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-70 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	117	118	113	117	117	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	109	102	120	111	109	110
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	151	153	155	153	154	153
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-71 Weld: Heat Fusion	1					
Side: A						Peel A
Peel Strength (ppi)	122	121	116	121	115	119
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	124	106	126	107	116	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	155	156	160	156	158	157
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-72 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	105	113	114	125	110	113
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	139	130	121	115	143	130
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	161	160	158	159	159	159
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-73 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	108	113	111	107	110	110
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	124	104	109	122	104	113
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	159	161	160	160	160	160
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	-

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 9 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-74 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	113	111	112	118	116	114
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	115	121	103	105	109	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	150	152	153	150	150	151
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-75 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	111	110	125	109	112	113
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	120	112	119	123	107	116
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	156	157	155	155	156	156
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 10 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-76 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	123	129	142	123	132	130
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	118	118	120	118	119	119
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	154	155	154	154	155	154
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-77 Weld: Heat Fusion	l					
Side: A						Peel A
Peel Strength (ppi)	110	112	110	111	113	111
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	102	107	107	104	105	105
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	154	156	154	155	152	154
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	·

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 11 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-78 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	107	107	107	106	108	107
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	148	138	119	107	105	123
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	148	148	148	147	146	147
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-79 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	134	134	136	130	133	133
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	124	123	125	124	129	125
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	142	142	142	140	139	141
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 12 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-80 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	127	125	135	128	133	130
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	139	134	146	133	138	138
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	143	146	145	146	147	145
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-81 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	155	151	152	152	156	153
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	152	146	144	146	154	148
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	148	152	152	149	151	150
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 13 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 39970

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-82 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	124	120	120	123	111	120
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	108	131	128	106	129	120
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	155	157	159	157	156	157
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

Sample ID: DS-83 Weld: Heat Fusion						
Side: A						Peel A
Peel Strength (ppi)	110	118	115	120	135	120
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side: B						Peel B
Peel Strength (ppi)	108	111	110	121	116	113
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	145	158	159	157	159	156
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101 Page: 14 of 14



Material: 60 mil. HDPE SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54/882 mod.) TRI Log#: 40029

		TEST	REPLICATE N	UMBER		
PARAMETER	1	2	3	4	5	MEAN
Sample ID: DS-84 Weld: Single Extru	sion					
Side: Peel						Peel
Peel Strength (ppi)	125	108	117	114	119	117
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	144	146	144	148	147	146
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID: DS-85 Weld: Single Extru	sion					
Side: Peel						Peel
Peel Strength (ppi)	135	131	121	145	144	135
Peel Incursion (%)	<5	<5	<5	<5	<5	
Peel Locus Of Failure Code	SE	SE	SE	SE	SE	
Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Shear						Shear
Shear Strength (ppi)	150	151	146	150	151	150
Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	



APPENDIX P GEOMEMBRANE REPAIR LOG SUMMARY

Geo	mer	nbrane	Repa	air Log	Su	mm	nary								76	err	ac	
Client	Name:	American Electri	ic Power		Pre	oject N	Number:	35177127	7			Liner	System			25809	Interstate	30 South
Con	tractor:	SFC			_	ČQA	Monitor:	Scott McI	Donald/M	latt Acre	e						Bryant, A	AR 72022
Project	Name:	Turk Cell 2			-	Revie	wed By:	Tony Bar	della		-	X	Primary	/		P	hone: 501.	.847.9292
A	ddress:	3711 HWY 355	S, Fulton	AR	_	Appro	oved By:	Dave Mc	Cormick		_		Second	lary			Fax: 501.	847.9210
Lo	cation:	Cell 2			- L	iner l	nstaller:	ESI			-		Other:					
		LOC	ATION		REI NO.	PAIR AND	REPAIR		SIZE		WELD	DER ID		N	ON-DES	TRUCTIV	E TESTIN	IG
DATE	PANEL	SEAM	DIST	OFFSET	cc	DDE	TYPE	LENGTH	WIDTH	DIA	MACH	OPER	QA	DATE	OPER	PASS/	ACTION	QA
			(ft)		(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
7/15/18	P-15	-	5 E. ext	7 from P16	R1	Р	E	3.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P15 P16 E.ext	-	-	R2	Р	E	2.0	1.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P14 P18 P19	-	-	R3	Р	E	2.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P18 E.ext	15	P19	R4	Р	Е	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P53 P54	486	W EOS	R5	DS25	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P17 P18 P20	-	-	R6	Р	Е	3.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P3 P4 P5	-	-	R7	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P3 P4	20	SAT	R8	DS2	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P24 P25 P28	-	-	R9	Р	Е	3.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P25 P26 P28	-	-	R10	Р	Е	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P26 P27 P28	-	-	R11	Р	Е	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P27 P28 P29	-	-	R12	Р	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P28 P29 P30	-	-	R13	Р	Е	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P29 P30 P41	-	-	R14	Р	Е	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P23 P24 P28	-	-	R15	Р	Е	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P22 P23 P28 P30	-	-	R16	Р	Е	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P21 P22 P30	-	-	R17	Р	E	4.0	4.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P21 P30 P31	164	E.ext	R18	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P21 P31 P32	-	-	R19	Р	Е	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P21 P31	112	SAT	R20	Р	Е	4.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P32 P34	168	W EOS	R21	DS9	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P34 P35	165	W EOS	R22	DS8	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P35 P37	170	W EOS	R23	DS10	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P37 P38	180	W EOS	R24	DS12	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P39 P42	210	W EOS	R25	DS11	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P42 P43	252	W EOS	R26	DS13	Е	2.0	1.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM

Geo	omer	nbrane	Rep	air Log	Su	mm	nary								76	err	ac	
Clien	t Name:	American Electri	ic Power		Pr	oject N	umber:	35177127	7			Liner	System			25809	Interstate	30 South
Con	tractor:	SFC			_	CQA	Monitor:	Scott Mc	Donald/M	latt Acre	e		_				Bryant, A	AR 72022
Projec	t Name:	Turk Cell 2			_	Revie	wed By:	Tony Bar	della		_	X	Primary	/		P	hone: 501.	847.9292
A	ddress:	3711 HWY 355	S, Fulton	AR	_	Appro	oved By:	Dave Mc	Cormick		_		Second	lary			Fax: 501.	.847.9210
Lo	ocation:	Cell 2			- L	iner l	nstaller:	ESI			-		Other:					
		LOCA	ATION		REI	PAIR	REPAIR		SIZE		WELD	DER ID		N	ON-DES	TRUCTIV	E TESTIN	IG
DATE	PANEI	SEAM	DIST	OFESET			TYPE	I ENGTH	WIDTH	DIA	масн	OPER	QA	DATE	OPER	PASS/	ACTION	QA
			(ft)	001	(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
7/15/18	-	P15 P38 P39 P40	-	-	R27	P	E	8.0	6.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P13 P15 P38	-	-	R28	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P13 P15 P16	-	-	R29	Р	E	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P15 P16	82	E.ext	R30	DS7	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P13 P16 P17	-	-	R31	Р	Е	4.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P13 P14 P17	-	-	R32	Р	ш	7.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P12 P13	76	SAT	R33	DS6	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P12 P13 P37 P38	-	-	R34	Р	Е	7.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P11 P12 P37	-	-	R35	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P10 P11 P37	-	-	R36	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P10 P36 P37	-	-	R37	Р	Е	4.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P9 P10 P36	-	-	R38	Р	Е	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P8 P9 P36	-	-	R39	Р	Е	3.0	7.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P8 P34 P36	-	-	R40	Р	E	4.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P7 P8 P34	-	-	R41	Р	E	7.0	1.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P8 P9	33	SAT	R42	DS3	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P9 P10	85	SAT	R43	DS4	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P10 P11	69	SAT	R44	DS5	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P14 P17 P20	-	-	R45	Р	E	4.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P6 P7 P34	-	-	R46	Р	E	2.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P5 P6	55	SAT	R47	Р	E	2.0	8.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P5 P6 P34	-	-	R48	Р	E	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P5 P33 P34	-	-	R49	Р	E	3.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P2 P3 P5 P33	-	-	R50	Р	E	8.0	4.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P2 P3	72	SAT	R51	DS1	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P1 P2 P33	-	-	R52	Р	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM

Geo	mei	mbrane	Repa	air Log	Su	mm	nary								٦Г	ərr	ar	
Client	t Name:	American Electr	ic Power		Pr	oject N	lumber:	3517712	7			Liner	System			25809	Interstate	30 South
Con	tractor:	SFC			-	CQA I	Monitor:	Scott Mc	Donald/M	latt Acre	e						Bryant, /	AR 72022
Project	t Name:	Turk Cell 2			-	Revie	wed By:	Tony Bar	della		-	X	Primary	/		P	hone: 501.	.847.9292
Α	ddress:	3711 HWY 355	S, Fulton	AR	_	Appro	ved By:	Dave Mc	Cormick		_		Second	lary			Fax: 501.	.847.9210
Lo	ocation:	Cell 2			L	_iner l	nstaller:	ESI			-		Other:			<u>.</u>		
	1										1			1				
		LOC	ATION		NO.	AND	REPAIR		SIZE		WELD	DER ID		N	ON-DES	TRUCTIV	E TESTIN	G
DATE	PANEL	SEAM	DIST	OFFSET	CC	DDE	TYPE	LENGTH	WIDTH	DIA	MACH	OPER	QA	DATE	OPER	PASS/	ACTION	QA
			(ft)		(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
7/15/18	-	P32 P33 P34	-	-	R53	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P1 P21 P33	-	-	R54	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P34 P35 P36	-	-	R55	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P35 P36 P37	-	-	R56	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P15 P39 P40 E.ext	-	-	R57	Р	E	4.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P39 P42 E.ext	-	-	R58	Р	E	4.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P42 P43 E.ext	-	-	R59	Р	E	7.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P43 P44 E. ext	-	-	R60	Р	E	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P44 P45 E. ext	-	-	R61	Р	Е	2.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P45 P46 E. ext	-	-	R62	Р	Е	3.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P46 P47 E. ext	-	-	R63	Р	E	8.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P47 P48 E.ext	-	-	R64	Р	E	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P48 P49 E. ext	-	-	R65	Р	Е	3.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P16 P17 E.ext	-	-	R66	Р	E	7.0	5.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P17 E.ext	22	P16	R67	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	P-17	-	25 TIE IN	8 W	R68	Р	E	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P14 P18 P20	-	-	R69	Р	Е	8.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P43 P44	35	E. ext	R70	Р	E	4.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P9 P36	106	SAT	R71	DS14	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/15/18	-	P43 P44	297	W EOS	R72	Р	E	5.0	4.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P46 E. ext	0	Repair 63	R73	DS34	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P47 E.ext	3	P46	R74	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P48 E.ext	5	P47	R75	Р	E	3.0	3.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P49 P50 E.ext	-	-	R76	Р	E	8.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P50 E.ext	3	P49	R77	Р	E	8.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P50 P51 E.ext	-	-	R78	Р	E	8.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM

Geo	mer	nbrane	Repa	air Log	Su	mm	nary								16	ərr	ac	
Client	Name:	American Electr	ic Power		Pre	oject N	Number:	35177127	7			Liner	System			25809	Interstate	30 South
Con	tractor:	SFC			-	ČQA	Monitor:	Scott Mc	Donald/M	latt Acre	e						Bryant,	AR 72022
Project	Name:	Turk Cell 2			-	Revie	wed By:	Tony Bar	della		_	X	Primary	/		P	hone: 501.	.847.9292
Α	ddress:	3711 HWY 355	S, Fulton	AR	-	Appro	ved By:	Dave Mc	Cormick		-		Second	lary			Fax: 501	.847.9210
Lo	cation:	Cell 2			- L	iner l	nstaller:	ESI			-		Other:					
		LOC	ATION		REF	PAIR			SIZE		WELD	DER ID		N	ON-DES	TRUCTIV	E TESTIN	IG
DATE	DANEL	05414	DIGT	055057	NO.	AND	REPAIR		MURTH	DIA		0050		DATE	0050	D 4 0 0 /	AOTION	
DATE	PANEL	SEAM	DIST	OFFSET			IYPE	LENGIH	WIDTH	DIA	MACH	OPER	QA	DATE	OPER	PASS/	ACTION	QA
			(ft)		(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
7/16/18	-	P51 E.ext	7	P50	R79	Р	E	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P51 P52 E.ext	-	-	R80	Р	E	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P52 E.ext	10	P51	R81	Р	E	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P52 P53 E.ext	-	-	R82	Р	E	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P53 E.ext	10	P52	R83	Р	E	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P53 P54 E.ext	-	-	R84	Р	Е	2.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P54 E.ext	10	P53	R85	Р	Е	4.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P54 P55 E.ext	-	-	R86	Р	Е	3.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P54 P55	20	E.ext	R87	DS26	Е	5.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P55 E.ext	10	P56	R88	Р	Е	5.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P55 P56 E.ext	-	-	R89	Р	E	2.0	3.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P56 E.ext	10	P55	R90	Р	E	2.0	3.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P56 E.ext	5	P55	R91	Р	Е	4.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P56 P57 E.ext	-	-	R92	Р	Е	2.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P57 E.ext	10	P56	R93	Р	Е	2.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P57 P58 E.ext	-	-	R94	Р	Е	3.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P58 E.ext	14	P57	R95	Р	Е	3.0	4.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	P-58		2 E.ext	10 from P57	R96	Р	E	2.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P58 P59 E.ext	-	-	R97	Р	E	3.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P59 E.ext	6	P58	R98	Р	E	3.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P59 P60 E.ext	-	-	R99	Р	Е	5.0	3.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P60 E.ext	6	P59	R100	Р	Е	3.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P44 P45	220	W EOS	R101	DS16	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P43 P44	190	W EOS	R102	DS15	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P45 P46	250	W EOS	R103	DS17	Е	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P46 P47	280	W EOS	R104	DS18	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM

Geo	mer	nbrane	Repa	air Log	Su	mm	nary								76	err	ac	ОП
Client	Name:	American Electr	ic Power		Pre	oject N	Number:	35177127	7		_	Liner	<u>System</u>			25809	Interstate	30 South
Con	tractor:	SFC			-	CQA I	Monitor:	Scott Mc	Donald/M	latt Acre	e						Bryant, /	AR 72022
Project	t Name:	Turk Cell 2			-	Revie	wed By:	Tony Bar	della		_	X	Primary	/		P	hone: 501.	847.9292
A	ddress:	3711 HWY 355	S, Fulton	AR		Appro	oved By:	Dave Mc	Cormick		-		Second	lary			Fax: 501.	.847.9210
Lo	ocation:	Cell 2			- L	iner l	nstaller:	ESI			-		Other:			-		
		LOC	ATION		REF NO.	PAIR AND	REPAIR		SIZE		WELD	DER ID		N	ON-DES	TRUCTIV	E TESTIN	IG
DATE	PANEL	SEAM	DIST	OFFSET	CC	DE	TYPE	LENGTH	WIDTH	DIA	MACH	OPER	QA	DATE	OPER	PASS/	ACTION	QA
			(ft)		(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
7/16/18	-	P48 P49	340	W EOS	R105	DS20	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P47 P48	310	W EOS	R106	DS19	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P49 P50	370	W EOS	R107	DS21	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P50 P51	401	W EOS	R108	DS22	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P52 P53	455	W EOS	R109	DS24	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P51 P52	430	W EOS	R110	DS23	E	5.0	2.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P53 P54	110	W EOS	R111	Р	Е	5.0	2.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	P-54	-	146	W 6N 53	R112	Р	E	3.0	3.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P54 P55	145	W EOS	R113	DS36	E	10.0	2.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	R52 P53	480	W EOS	R114	DS35	E	5.0	3.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P55 P56	490	W EOS	R115	DS27	E	5.0	2.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P56 P57	110	W EOS	R116	DS37	E	5.0	2.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P57 P58	110	W EOS	R117	DS30	E	5.0	2.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P59 P60	160	W EOS	R118	DS32	E	5.0	2.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P58 P59	140	W EOS	R119	DS31	E	5.0	2.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P56 P57	80	W EOS	R120	DS29	E	5.0	2.0	-	5133	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P55 P56	36	W EOS	R121	DS28	E	5.0	2.0	-	5173	AF	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	P57 P58	10	W EOS	R122	Р	E	3.0	2.0	-	5173	AE	SM	7/16/18	RC	Р	VT	SM
7/16/18	-	PIPE S end	-	-	R123	PB	E	16.0	6.0	-	215	BV	SM	7/16/18	RC	Р	VT	SM
7/18/18	P-9	-	AT	10' FROM P10	R124	Р	E	2.0	2.0	-	215	BV	SM	7/18/18	RC	Р	VT	SM
7/18/18	P-9	P47 P48	295	W EOS	R125	DS19B	E	19.0	2.0	-	215	BV	SM	7/18/18	RC	Р	VT	SM
7/18/18	-	P47 P48	310	W EOS	R126	DS19A	E	10.0	2.0	-	215	BV	SM	7/18/18	RC	Р	VT	SM
7/18/18	-	P49 P50	360	W EOS	R127	DS21B	E	10.0	2.0	-	215	BV	SM	7/18/18	RC	Р	VT	SM
7/18/18	-	P49 P50	380	W EOS	R128	DS21A	E	10.0	2.0	-	215	BV	SM	7/18/18	RC	Р	VT	SM
7/19/18	-	P60 P61	32	W EOS	R129	Р	E	6.0	3.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P60 P61	62	W EOS	R130	Р	E	4.0	3.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA

Geo	mer	nbrane	Rep	air Log	Su	mm	nary								76	err	ac	ОГ
Client	Name:	American Electr	ric Power		Pre	oject N	lumber:	35177127	7		_	Liner	<u>System</u>			25809	Interstate	30 South
Con	tractor:	SFC				CQA I	Monitor:	Scott Mc	Donald/M	latt Acre	e		_				Bryant, A	AR 72022
Project	Name:	Turk Cell 2			-	Revie	wed By:	Tony Bar	della		_	X	Primary	/		F	hone: 501.	847.9292
A	ddress:	3711 HWY 355	S, Fulton	n AR	. .	Appro	ved By:	Dave Mc	Cormick		-		Second	lary			Fax: 501	.847.9210
Lo	cation:	Cell 2			. L	iner l	nstaller:	ESI			-		Other:			-		
		LOC	ATION		REI NO.	PAIR AND	REPAIR		SIZE		WELD	DER ID		N	ON-DES	TRUCTIV	E TESTIN	IG
DATE	PANEL	SEAM	DIST	OFFSET	cc	DE	TYPE	LENGTH	WIDTH	DIA	MACH	OPER	QA	DATE	OPER	PASS/	ACTION	QA
			(ft)		(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
7/19/18	-	P60 P61	80	W EOS	R131	DS41	Е	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P61 P62	80	W EOS	R132	DS42	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P62 P63	80	W EOS	R133	DS43	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P60 P61	141	W EOS	R134	Р	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P60 P61	511	W EOS	R135	DS38	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P60 P61 E.ext	-	-	R136	Р	E	3.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P61 E.ext	4 ft	N of P60	R137	Р	E	2.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P61 P62 E.ext	-	-	R138	Р	E	3.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P61 P62	511	-	R139	DS39	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P62 E.ext	4 ft	N of P61	R140	Р	E	2.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P62 P63 E.ext	-	-	R141	Р	E	7.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P62 P63	511	-	R142	DS40	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P63 P64 E.ext	-	-	R143	Р	E	4.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P64 P65 E.ext	-	-	R144	Р	E	4.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	P-65	-	9,5	N P64, W of EXT	R145	Р	E	2.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	P-65	-	9,12	N P64, W of EXT	R146	Р	E	2.0	1.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P65 P66 E.ext	-	-	R147	Р	E	4.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P66 P67 E.ext	-	-	R148	Р	E	4.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P66 P67	521	-	R149	DS50	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P67 E.ext	-	8 ft N P66	R150	DS57	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P67 P68 E.ext	-	-	R151	Р	E	3.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P67 P68	515	-	R152	DS51	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P68 P69 E.ext	-	-	R153	Р	E	3.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P68 P69	515	-	R154	DS52	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	P-69	-	11,7	N P68, W of EXT	R155	Р	E	2.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P69 P70 E.ext	-	-	R156	Р	Е	2.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA

Geo	mer	nbrane	Rep	air Log	Su	mm	nary								76	ərr	ar	
Clien	t Name:	American Electri	ic Power		Pro	oiect N	Number:	3517712	7			Liner	Svstem			25809	Interstate	30 South
Con	tractor:	SFC			-	CQAI	Monitor:	Scott Mc	Donald/M	latt Acre	e						Bryant, /	AR 72022
Projec	t Name:	Turk Cell 2			•	Revie	wed By:	Tony Bar	della		-	X	Primary	/		P	hone: 501.	.847.9292
A	ddress:	3711 HWY 355	S, Fulton	AR		Appro	ved By:	Dave Mc	Cormick		-		Second	lary			Fax: 501.	.847.9210
Lo	ocation:	Cell 2			. L	iner l	nstaller:	ESI			-		Other:			<u>.</u>		
	Π										1			Π				
		LOCA	ATION		NO.	AND	REPAIR		SIZE		WELD	DER ID		N	ON-DES	TRUCTIV	E TESTIN	G
DATE	PANEL	SEAM	DIST	OFFSET	CC	DDE	TYPE	LENGTH	WIDTH	DIA	MACH	OPER	QA	DATE	OPER	PASS/	ACTION	QA
			(ft)		(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
7/19/18	-	P70 P71 E.ext	-	-	R157	Р	Е	4.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P71 P72 E.ext	-	-	R158	Р	E	6.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P72 P73 E.ext	-	-	R159	Р	E	4.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	P-73	-	12,4	N P72, W of EXT	R160	Р	E	1.0	1.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	P-73	-	12,11	N P72, W of EXT	R161	Р	E	1.0	1.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P71 P72	228	W EOS	R162	Р	E	4.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P68 P69	148	W EOS	R163	Р	E	3.0	3.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P68 P69	208	W EOS	R164	DS49	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P67 P68	208	W EOS	R165	DS48	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P69 P70	420	W EOS	R166	DS53	Е	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P65 P66	415	W EOS	R167	DS46	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P66 P67	208	W EOS	R168	DS47	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P62 P63	134	W EOS	R169	Р	Е	3.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P63 P64	415	W EOS	R170	DS44	E	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P64 P65	415	W EOS	R171	DS45	Е	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P72 P73	380	W EOS	R172	DS56	Е	5.0	2.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P71 P72	425	W EOS	R173	DS55	E	4.0	1.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
7/19/18	-	P70 P71	425	W EOS	R174	DS54	E	2.0	1.0	-	215	BV	MA	7/19/18	RC	Р	VT	MA
8/4/18	-	P-81 - P-82	520'	W EOS	R-175	DS-71	Е	5.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-73 - P-74 - E.ext	-	-	R-176	Р	E	4.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-74 - E.ext	11	P73	R-177	Р	Е	2.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-74 - P-75 - E.ext	-	-	R-178	Р	E	15.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-75 - E.ext	11	P74	R-179	Р	E	4.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-75 - P-76 - E.ext	-	-	R-180	Р	Е	5.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-76 - E.ext	20	P75	R-181	Р	E	1.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-76 - P-77 - E.ext	-	-	R-182	Р	Е	2.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA

Geo	omer	nbrane	Rep	air Log	Su	mm	nary								76	211	ac	
Clien	t Name:	American Electri	ic Power		Pre	oject N	Number:	35177127	7		_	Liner	<u>System</u>			25809	Interstate	30 South
Con	tractor:	SFC			_	CQAI	Monitor:	Scott Mc	Donald/M	latt Acre	E						Bryant, /	AR 72022
Projec	t Name:	Turk Cell 2	-		-	Revie	wed By:	Tony Bar	della		_	X	Primary	/		P	hone: 501.	.847.9292
A	ddress:	3711 HWY 355	S, Fulton	AR		Appro	oved By:	Dave Mc	Cormick		-		Second	lary			Fax: 501.	.847.9210
Lo	ocation:	Cell 2			- L	iner l	nstaller:	ESI			-		Other:					
		LOC	ATION		REI NO.	PAIR AND	REPAIR		SIZE		WELD	ER ID		N	ON-DES	TRUCTIV	E TESTIN	IG
DATE	PANEL	SEAM	DIST	OFFSET	cc	DDE	TYPE	LENGTH	WIDTH	DIA	MACH	OPER	QA	DATE	OPER	PASS/	ACTION	QA
			(ft)		(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
8/4/18	-	P-77 - E.ext	19	P76	R-183	Р	E	3.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-77 - P-78 -E.ext	-	-	R-184	Р	E	2.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-78 - E.ext	18	P77	R-185	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-78 - P-79 - E.ext	-	-	R-186	Р	E	2.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-79 - E.ext	18	P78	R-187	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-79 - P-80 - E.ext	-	-	R-188	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-79 - P-80	520'	W EOS	R-189	DS69	E	4.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-80 - P-81	520'	W EOS	R-190	DS70	E	5.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-81 - P-82	520'	W EOS	R-191	DS84	E	5.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-80 - E.ext	18	P79	R-192	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-80 - P-81 - E.ext	-	-	R-193	Р	Е	2.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-81 - E.ext	10	P80	R-194	DS81	E	6.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-81 - E.ext	18	P80	R-195	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-81 - P-82 - E.ext	-	-	R-196	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-82 - E.ext	15	P81	R-197	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-82 - P-83 - E.ext	-	-	R-198	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - E.ext	15	P82	R-199	Р	E	2.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-84 - E.ext	-	-	R-200	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-84 - E.ext	15	P83	R-201	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-84 - P-85 - E.ext	-	-	R-202	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-85 - E.ext	11	P84	R-203	Р	E	2.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-85 - P-86 - E.ext	-	-	R-204	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-86 - E.ext	8	P85	R-205	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-86/87/88/E.ext	-	-	R-206	Р	E	5.0	5.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-87 - E.ext	10	P86	R-207	Р	E	2.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-87 - E.ext	13	P86	R-208	Р	E	2.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA

Geo	mer	nbrane	Rep	air Log	Su	mm	nary								٦Г	ərr	ar	
Client	t Name:	American Electri	ic Power		Pro	oject N	lumber:	35177127	7			Liner	System			25809	Interstate	30 South
Con	tractor:	SFC			-	CQA	Monitor:	Scott Mc	Donald/M	latt Acre	e						Bryant, /	AR 72022
Project	t Name:	Turk Cell 2			-	Revie	wed By:	Tony Bar	della		-	X	Primary	/		P	hone: 501.	.847.9292
Α	ddress:	3711 HWY 355	S, Fulton	AR		Appro	ved By:	Dave Mc	Cormick		_		Second	lary			Fax: 501.	.847.9210
Lo	ocation:	Cell 2			_ L	iner l	nstaller:	ESI			-		Other:			<u>.</u>		
	1										1			1				
		LOCA	ATION		NO.	AND	REPAIR		SIZE		WELD	DER ID		N	ON-DES	TRUCTIV	E TESTIN	G
DATE	PANEL	SEAM	DIST	OFFSET	cc	DE	TYPE	LENGTH	WIDTH	DIA	MACH	OPER	QA	DATE	OPER	PASS/	ACTION	QA
			(ft)		(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
8/4/18	-	P-87 - E.ext	20	P86	R-209	Р	Е	2.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-86/88/89/90	-	-	R-210	Р	E	5.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-86 - P-90	17	P85	R-211	DS-80	E	4.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-90 - P-91	73	NAT	R-212	DS-72	E	6.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-91 - P-92	73	NAT	R-213	DS-73	Е	5.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-93 - P-94	73	NAT	R-214	DS-74	Е	4.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-85/86/90/91	-	-	R-215	Р	E	5.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-84/85/91/92	-	-	R-216	Р	Е	5.0	5.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-84 - P-92	-	-	R-217	Р	Е	3.0	3.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-82 - P-83	-	-	R-218	DS-68	E	4.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-92	12	P84	R-219	Р	Е	3.0	3.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-92 - P-93	-	-	R-220	Р	Е	2.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-93 - P-94	-	-	R-221	Р	Е	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-94 - P-95	-	-	R-222	Р	E	2.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-95 - P-96	-	-	R-223	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-96 - P-97	-	-	R-224	Р	Е	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-82 - P-83	368	W.EOS	R-225	Р	E	3.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-97 - P-98	15' N	-	R-226	Р	E	6.0	3.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	P-98	-	20' N	12' W P-97	R-227	PB	Е	10.0	7.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-97 - P-98	-	-	R-228	Р	Е	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-98 - P-99	-	-	R-229	Р	Е	3.0	3.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-98 - P-99	15' N	-	R-230	Р	E	3.0	3.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-99 - P-100	-	-	R-231	Р	E	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-100 - P-101	-	-	R-232	Р	E	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-101 - P-102	-	-	R-233	Р	E	3.0	1.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-102 - P-103	-	-	R-234	Р	E	2.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA

Geo	eomembrane Repair Log Summary																	
Clien	t Name:	American Electri	ic Power		Pre	oject N	lumber:	35177127	7			Liner	System			25809	Interstate	30 South
Con	tractor:	SFC			-	ČQA	Monitor:	Scott McI	Donald/M	latt Acre	e						Bryant, /	AR 72022
Projec	t Name:	Turk Cell 2				Review	wed By:	Tony Bar	della		-	Х	Primary	/	Phone: 501.847.9292			
Α	ddress:	3711 HWY 355	S, Fulton	AR	-	Appro	ved By:	Dave Mc	Cormick		-		Second	lary	Fax: 501.847.9210			
Lo	ocation:	Cell 2			- L	iner lı	nstaller:	ESI			-		Other:			-		
		LOCA	ATION		RE	PAIR	REPAIR	SIZE		WELD	DER ID		NON-DESTRUCTIVE TESTING			IG		
DATE	PANEI	SEAM	DIST	OFFSET		DF	TYPE	I ENGTH	WIDTH	DIA	МАСН	OPFR	QA	DATE	OPER	PASS/	ACTION	QA
		•=•	(ft)	001	(1)	(2)	(3)	(ft)	(ft)	(ft)	NO	ID	ID		ID	FAIL		ID
8/4/18	-	P-83 - P-103	-	-	R-235	DS-78	Е	6.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-103 - P-104	-	-	R-236	Р	E	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-103 - P-104 - P-11	-	-	R-237	Р	Е	4.0	3.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-104 - P-113 - P-114	-	-	R-238	Р	Е	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-104 - P-105 - P-11:	-	-	R-239	Р	Е	2.0	1.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-104 - P-105	20' N	-	R-240	Р	Е	2.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-100 - P-101	15	N.AT	R-241	DS-75	Е	4.0	2.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-101 - P-102	15	N.AT	R-242	DS-76	Е	4.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-102 - P-103	15	N.AT	R-243	DS-77	Е	4.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-102 - P-103	15	N.AT	R-244	Р	Е	4.0	3.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-105/106/113/115	-	-	R-245	Р	Е	6.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-106 - P-115	15' NW	-	R-246	DS-79	Е	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-106 - P-107 - P-11	-	-	R-247	Р	Е	3.0	4.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-107 - P-108 - P-11	-	-	R-248	Р	Е	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-108 - P-109 - P-11	-	-	R-249	Р	Е	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-109 - P-110 - P-11	-	-	R-250	Р	Е	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-110 - P-112 - P-11	-	-	R-251	Р	Е	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-110 - P-111 - P-11	-	-	R-252	Р	Е	2.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-111 - P-112 - P-114	-	-	R-253	Р	Е	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-115 - P-112	17	P113	R-254	Р	Е	3.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-112 - P-113 P-115	-	-	R-255	Р	Е	2.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-112 - P-113 P-114	-	-	R-256	Р	E	4.0	3.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-113 - P-114	10	P112	R-257	DS-82	E	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-83 - P-114	85'	-	R-258	DS-83	E	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-82 - P-83	85'	-	R-259	DS-64	E	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-81 - P-82	85'	-	R-260	DS-63	E	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA

Client Cont Project Ac Lo	Name: ractor: Name: Idress: cation:	American Electr SFC Turk Cell 2 3711 HWY 355 Cell 2	ic Power S, Fulton	AR	Project Number: <u>35177127</u> CQA Monitor: <u>Scott McDonald/Matt Acree</u> Reviewed By: <u>Tony Bardella</u> Approved By: <u>Dave McCormick</u> Liner Installer: <u>ESI</u>					Einer System X Primary Secondary Other:					25809 Interstate 30 South Bryant, AR 72022 Phone: 501.847.9292 Fax: 501.847.9210			
		LOC	ATION		REF	PAIR	REPAIR		SIZE		WELD	ER ID		N	ON-DEST	TRUCTIV	E TESTIN	G
DATE	PANEL	SEAM	DIST (ft)	OFFSET	(1))DE (2)	TYPE (3)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH NO	OPER ID	QA ID	DATE	OPER ID	PASS/ FAIL	ACTION	QA ID
8/4/18	-	P-80 - P-81	90'	-	R-261	DS-62	E	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-79 - P-80	90'	-	R-262	DS-61	Е	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-78 - P-79	90'	-	R-263	DS-67	Е	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-77 - P-78	180'	-	R-264	DS-66	Е	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-76 - P-77	180'	-	R-265	DS-65	Е	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-75 - P-76	180'	-	R-266	DS-60	Е	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-74 - P-75	85'	-	R-267	DS-59	Е	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-73 - P-74	85'	-	R-268	DS-58	Е	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	-	P-114 - R-258	85'	-	R-269	DS-85	Е	5.0	2.0	-	215	BV	MA	8/4/18	RC	Р	VT	MA
8/4/18	P93	-	2,5	P83,P92	R-270	Ρ	E	2.0	1.0	-	5173	AF	MA	8/4/18	RC	Р	VT	MA
	(1) Repair	r No.: Repairs should	d be numbe	red sequentially						. 1	11			<u> </u>	ABBREV	I /IATIONS:	·	



APPENDIX Q GEOCOMPOSITE MANUFACTURER'S QC CERTIFICATES



October 13, 2017 Environmental Specialties Int'l, Inc 7943 Pecue Lane, Suite A Baton Rouge, LA, 70809

Ref. : AEP John W. Turk Power Plant, AR Customer P.O. # 25801 Product : TN 220-2-8

We hereby certify that the TN 220-2-8 drainage geocomposite, meets or exceeds the project requirements as stated in the specifications. The properties listed in this section are:

Property	Test Method	Unit	Value	Qualifier
Geonet ³				
Thickness	ASTM D 5199	mil	200	MAV ⁶
Carbon Black	ASTM D 4218	%	2.0	MAV
Tensile Strength	ASTM D 7179	lbs/in	45	MAV
Melt Flow	ASTM D 1238 ²	g/10 min	1.0	Maximum
Density	ASTM D 1505	g/cm ³	0.94	MAV
Transmissivity ^{1a}	ASTM D 4716	m ² /sec	2.0 x 10 ⁻³	MAV
Composite				
Ply Adhesion	ASTM D 7005	lb/in	1.0	MAV
Transmissivity ^{1b}	ASTM D 4716	m ² /sec	1.0 x 10 ⁻⁴	MAV
Geotextile^{3 & 4}				
Fabric Weight	ASTM D 5261	oz/yd ²	8.0	MARV ⁵
Grab Strength	ASTM D 4632	lbs	220	MARV
Grab Elongation	ASTM D 4632	%	50	MARV
Trap Tear Strength	ASTM D 4533	lbs	90	MARV
Puncture Resistance	ASTM D 4833	lbs	120	MARV
Permittivity	ASTM D 4491	sec ⁻¹	1.26	MARV
AOS	ASTM D 4751	US Sieve	80	MaxARV
UV Resistance	ASTM D 4355	%/hrs	70/500	MARV

Notes:

1a. Transmissivity measured using water at 21 ± 2 ° C (70 ± 4 ° F) with a gradient of 0.1 and a confining pressure of 10,000 psf between steel plates after 15 minutes.

- *1b.* Transmissivity measured using water at 21 <u>+</u> 2 ° C (70 <u>+</u> 4 ° F) with a gradient of 0.1 and a confining pressure of 10,000 psf between steel plates after 15 minutes.
- 2. Condition 190/2.16
- 3. Geotextile and Geonet properties are prior to lamination.
- 4. Geotextile data is provided by the supplier.
- 5. MARV is statistically defined as mean minus two standard deviations and it is the value which is exceeded by 97.5% of all the test data.
- 6. Minium average value

Sincerely,

OA Manager

Rajesh Patel Rajesh Patel





	Geoco	mposite		Geonet								
Roll Number	Ply Ad (lb)	hesion /in)	Transmissivity (m²/sec)	Resin Lot Number	Density (g/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)			
	Side "A"	Side "B"	(, ,)		(9, 0)	()	(%)	(lb/in)	(, , , , , , , , , , , , , , , , , ,			
78291010001	1.94	1.48	3.93 x 10⁻⁴	XOMX 710608	0.9556	222	2.63	58	3.89 x 10⁻³			
78291010002				XOMX 710608	0.9556							
78291010003				XOMX 710608	0.9556							
78291010004				XOMX 710608	0.9556							
78291010005				XOMX 710608	0.9556							
78291010006				XOMX 710608	0.9556							
78291010007				XOMX 710608	0.9556							
78291010008				XOMX 710608	0.9556							
78291010009				XOMX 710608	0.9556							
78291010010				XOMX 710608	0.9556							
78291010011				XOMX 710608	0.9556							
78291010012				XOMX 710608	0.9556							
78291010013				XOMX 710608	0.9556							
78291010014				XOMX 710608	0.9556							
78291010015	1.66	2.13		XOMX 710608	0.9560	220	2.69	56				
78291010016				XOMX 710608	0.9560							
78291010017				XOMX 710608	0.9560							
78291010018				XOMX 710608	0.9560							
78291010019				XOMX 710608	0.9560							
78291010020				XOMX 710608	0.9560							
78291010021				XOMX 710608	0.9560							
78291010022				XOMX 710608	0.9560							
78291010023				XOMX 710608	0.9560							
78291010024				XOMX 710608	0.9560							



	Geoco	mposite		Geonet								
Roll Number	Ply Ad (lb)	hesion /in)	Transmissivity (m ² /sec)	Resin Lot Number	Density (g/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)			
	Side "A"	Side "B"					(70)	(lb/in)				
78291010025				XOMX 710608	0.9560							
78291010026				XOMX 710608	0.9560							
78291010027				XOMX 710608	0.9560							
78291010028				XOMX 710608	0.9560							
78291010029				XOMX 710608	0.9560							
78291010030	2.10	2.27		XOMX 710608	0.9555	225	2.52	52				
78291010031				XOMX 710608	0.9555							
78291010032				XOMX 710608	0.9555							
78291010033				XOMX 710608	0.9555							
78291010034				XOMX 710608	0.9555							
78291010035				XOMX 710608	0.9555							
78291010036				XOMX 710608	0.9555							
78291010037				XOMX 710608	0.9555							
78291010038				XOMX 710608	0.9555							
78291010039				XOMX 710608	0.9555							
78291010040				XOMX 710608	0.9555							
78291010041				XOMX 710608	0.9555							
78291010042				XOMX 710608	0.9555							
78291010043				XOMX 710608	0.9555							
78291010044				XOMX 710608	0.9555							
78291010045	2.29	2.55		XOMX 710608	0.9561	228	2.65	55				
78291010046				XOMX 710608	0.9561							
78291010047				XOMX 710608	0.9561							
78291010048				XOMX 710608	0.9561							



	Geoco	mposite		Geonet								
Roll Number	Ply Ad (lb)	hesion /in)	Transmissivity (m ² /sec)	Resin Lot Number	Density (g/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)			
	Side "A"	Side "B"	(, ,,		(9, 0)		(%)	(lb/in)	(, , , , , , , , , , , , , , , , , ,			
78291010049				XOMX 710608	0.9561							
78291010050				XOMX 710608	0.9561							
78291010051				XOMX 710608	0.9561							
78291010052				XOMX 710608	0.9561							
78291010053				XOMX 710608	0.9561							
78291010054				XOMX 710608	0.9561							
78291010055				XOMX 710608	0.9561							
78291010056				XOMX 710608	0.9561							
78291010057				XOMX 710608	0.9561							
78291010058				XOMX 710608	0.9561							
78291010059				XOMX 710608	0.9561							
78291010060	2.09	1.70		XOMX 710608	0.9554	226	2.51	57				
78291010061				XOMX 710608	0.9554							
78291010062				XOMX 710608	0.9554							
78291010063				XOMX 710608	0.9554							
78291010064				XOMX 710608	0.9554							
78291010065				XOMX 710608	0.9554							
78291010066				XOMX 710608	0.9554							
78291010067				XOMX 710608	0.9554							
78291010068				XOMX 710608	0.9554							
78291010069				XOMX 710608	0.9554							
78291010070				XOMX 710608	0.9554							
78291010071				XOMX 710608	0.9554							
78291010072				XOMX 710608	0.9554							



	Geoco	mposite		Geonet								
Roll Number	Ply Ad (lb)	hesion /in)	Transmissivity (m ² /sec)	Resin Lot Number	Density (g/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)			
	Side "A"	Side "B"	(/)		(3,)		(%)	(lb/in)	(/ /			
78291010073				XOMX 710608	0.9554							
78291010074				XOMX 710608	0.9554							
78291010075	2.07	2.25	4.3 x 10⁻⁴	XOMX 710608	0.9562	224	2.43	53	3.47 x 10⁻³			
78291010076				XOMX 710608	0.9562							
78291010077				XOMX 710608	0.9562							
78291010078				XOMX 710608	0.9562							
78291010079				XOMX 710608	0.9562							
78291010080				XOMX 710608	0.9562							
78291010081				XOMX 710608	0.9562							
78291010082				XOMX 710608	0.9562							
78291010083				XOMX 710608	0.9562							
78291010084				XOMX 710608	0.9562							
78291010085				XOMX 710608	0.9562							
78291010086				XOMX 710608	0.9562							
78291010087				XOMX 710608	0.9562							
78291010088				XOMX 710608	0.9562							
78291010089				XOMX 710608	0.9562							
78291010090	1.81	1.43		XOMX 710608	0.9559	227	2.33	59				
78291010091				XOMX 710608	0.9559							
78291010092				XOMX 710608	0.9559							
78291010093				XOMX 710608	0.9559							
78291010094				XOMX 710608	0.9559							
78291010095				XOMX 710608	0.9559							
78291010096				XOMX 710608	0.9559							



	Geoco	mposite		Geonet							
Roll Number	Ply Ad (lb)	hesion /in)	Transmissivity (m²/sec)	Resin Lot Number	Density (g/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)		
	Side "A"	Side "B"	(,)		(9,)		(%)	(lb/in)	(,,		
78291010097				XOMX 710608	0.9559						
78291010098				XOMX 710608	0.9559						
78291010099				XOMX 710608	0.9559						
78291010100				XOMX 710608	0.9559						
78291010101				XOMX 710608	0.9559						
78291010102				XOMX 710608	0.9559						
78291010103				XOMX 710608	0.9559						
78291010104				XOMX 710608	0.9559						
78291010105	1.50	1.69		XOMX 710608	0.9557	218	2.72	51			
78291010106				XOMX 710608	0.9557						
78291010107				XOMX 710608	0.9557						
78291010108				XOMX 710608	0.9557						
78291010109				XOMX 710608	0.9557						
78291010110				XOMX 710608	0.9557						
78291010111				XOMX 710608	0.9557						
78291010112				XOMX 710608	0.9557						
78291010113				XOMX 710608	0.9557						
78291010114				XOMX 710608	0.9557						
78291010115				XOMX 710608	0.9557						
78291010116				XOMX 710608	0.9557						
78291010117				XOMX 710608	0.9557						
78291010118				XOMX 710608	0.9557						
78291010119				XOMX 710608	0.9557						
78291010120	1.74	2.07		XOMX 710608	0.9553	221	2.26	54			



	Geoco	mposite		Geonet								
Roll Number	Ply Ad (lb)	hesion /in)	Transmissivity (m ² /sec)	Resin Lot Number	Density (g/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)			
	Side "A"	Side "B"	(,,		(9, 0)		(%)	(lb/in)	(,,			
78291010121				XOMX 710608	0.9553							
78291010122				XOMX 710608	0.9553							
78291010123				XOMX 710608	0.9553							
78291010124				XOMX 710608	0.9553							
78291010125				XOMX 710608	0.9553							
78291010126				XOMX 710608	0.9553							
78291010127				XOMX 710608	0.9553							
78291010128				XOMX 710608	0.9553							
78291010129				XOMX 710608	0.9553							
78291010130				XOMX 710608	0.9553							
78291010131				XOMX 710608	0.9553							
78291010132				XOMX 710608	0.9553							
78291010133				XOMX 710608	0.9553							
78291010134				XOMX 710608	0.9553							
78291010135	2.21	1.95		XOMX 710608	0.9558	223	2.67	52				
78291010136				XOMX 710608	0.9558							
78291010137				XOMX 710608	0.9558							
78291010138				XOMX 710608	0.9558							
78291010139				XOMX 710608	0.9558							
78291010140				XOMX 710608	0.9558							
78291010141				XOMX 710608	0.9558							
78291010142				XOMX 710608	0.9558							
78291010143				XOMX 710608	0.9558							
78291010144				XOMX 710608	0.9558							



	Geoco	mposite		Geonet								
Roll Number	Ply Ad (lb)	hesion /in)	Transmissivity (m ² /sec)	Resin Lot Number	Density (q/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)			
	Side "A"	Side "B"			(3,)		(%)	(lb/in)	(/ /			
78291010145				XOMX 710608	0.9558							
78291010146				XOMX 710608	0.9558							
78291010147				XOMX 710608	0.9558							
78291010148				XOMX 710608	0.9558							
78291010149				XOMX 710608	0.9558							
78291010150	2.65	2.38	4.16 x 10⁻⁴	XOMX 710608	0.9555	228	2.37	59	3.71 x 10⁻³			
78291010151				XOMX 710608	0.9555							
78291010152				XOMX 710608	0.9555							
78291010153				XOMX 710608	0.9555							
78291010154				XOMX 710608	0.9555							
78291010155				XOMX 710608	0.9555							
78291010156				XOMX 710608	0.9555							
78291010157				XOMX 710608	0.9555							
78291010158				XOMX 710608	0.9555							
78291010159				XOMX 710608	0.9555							
78291010160				XOMX 710608	0.9555							
78291010161				XOMX 710608	0.9555							
78291010162				XOMX 710608	0.9555							
78291010163				XOMX 710608	0.9555							
78291010164				XOMX 710608	0.9555							
78291010165	2.30	2.63		XOMX 710608	0.9562	219	2.27	56				
78291010166				XOMX 710608	0.9562							
78291010167				XOMX 710608	0.9562							
78291010168				XOMX 710608	0.9562							



	Geoco	mposite		Geonet								
Roll Number	Ply Ad (lb)	hesion /in)	Transmissivity (m ² /sec)	Resin Lot Number	Density (g/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)			
	Side "A"	Side "B"	(, ,)		(9, 0)		(%)	(lb/in)	(, , , , , , , , , , , , , , , , , ,			
78291010169				XOMX 710608	0.9562							
78291010170				XOMX 710608	0.9562							
78291010171				XOMX 710608	0.9562							
78291010172				XOMX 710608	0.9562							
78291010173				XOMX 710608	0.9562							
78291010174				XOMX 710608	0.9562							
78291010175				XOMX 710608	0.9562							
78291010176				XOMX 710608	0.9562							
78291010177				XOMX 710608	0.9562							
78291010178				XOMX 710608	0.9562							
78291010179				XOMX 710608	0.9562							
78291010180	1.67	2.23		XOMX 710608	0.9557	229	2.45	53				
78291010181				XOMX 710608	0.9557							
78291010182				XOMX 710608	0.9557							
78291010183				XOMX 710608	0.9557							
78291010184				XOMX 710608	0.9557							
78291010185				XOMX 710608	0.9557							
78291010186				XOMX 710608	0.9557							
78291010187				XOMX 710608	0.9557							
78291010188				XOMX 710608	0.9557							
78291010189				XOMX 710608	0.9557							
78291010190				XOMX 710608	0.9557							
78291010191				XOMX 710608	0.9557							
78291010192				XOMX 710608	0.9557							


Product: TN 220-2-8 Project : AEP John W. Turk Power Plant, AR

We hereby certify the following test results for the above referenced product/project :

	Geoco	mposite				Geo	net		
Roll Number	Ply Ad (Ib)	hesion /in)	Transmissivity (m ² /sec)	Resin Lot Number	Density (g/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)
	Side "A"	Side "B"	() = = =)				(%)	(lb/in)	() = = =)
78291010193				XOMX 710608	0.9557				
78291010194				XOMX 710608	0.9557				
78291010195	2.37	2.56		XOMX 710608	0.9561	220	2.36	51	
78291010196				XOMX 710608	0.9561				
78291010197				XOMX 710608	0.9561				
78291010198				XOMX 710608	0.9561				
78291010199				XOMX 710608	0.9561				
78291010200				XOMX 710608	0.9561				
78291010201				XOMX 710608	0.9561				
78291010202				XOMX 710608	0.9561				
78291010203				XOMX 710608	0.9561				
78291010204				XOMX 710608	0.9561				
78291010205				XOMX 710608	0.9561				
78291010206				XOMX 710608	0.9561				
78291010207				XOMX 710608	0.9561				
78291010208				XOMX 710608	0.9561				
78291010209				XOMX 710608	0.9561				
78291010210	2.04	2.37		XOMX 710608	0.9556	222	2.61	57	
78291010211				XOMX 710608	0.9556				
78291010212				XOMX 710608	0.9556				
78291010213				XOMX 710608	0.9556				
78291010214				XOMX 710608	0.9556				
78291010215				XOMX 710608	0.9556				
78291010216				XOMX 710608	0.9556				



Product: TN 220-2-8 Project : AEP John W. Turk Power Plant, AR

We hereby certify the following test results for the above referenced product/project :

	Geoco	mposite				Geo	net		
Roll Number	Ply Ad (lb)	hesion /in)	Transmissivity (m ² /sec)	Resin Lot Number	Density (g/cm ³)	Thickness (mils)	Carbon Black	Tensile Strength MD	Transmissivity (m ² /sec)
	Side "A"	Side "B"	(, ,,		(9,)	X - 7	(%)	(lb/in)	(, ,,
78291010217				XOMX 710608	0.9556				
78291010218				XOMX 710608	0.9556				
78291010219				XOMX 710608	0.9556				
78291010220				XOMX 710608	0.9556				
78291010221				XOMX 710608	0.9556				
78291010222				XOMX 710608	0.9556				
78291010223				XOMX 710608	0.9556				
78291010224				XOMX 710608	0.9556				
78291010225	1.99	2.32	4.48 x 10⁻⁴	XOMX 710608	0.9559	225	2.64	54	3.84 x 10⁻³
78291010226				XOMX 710608	0.9559				
78291010227				XOMX 710608	0.9559				
78291010228				XOMX 710608	0.9559				
78291010229				XOMX 710608	0.9559				
78291010230				XOMX 710608	0.9559				
78291010231				XOMX 710608	0.9559				
78291010232				XOMX 710608	0.9559				



POLYETHYLENE RESIN CERTIFICATION

Customer Name : Project Name : Geocomposite Manufacturer : Geocomposite Production Plant : Geocomposite Brand Name : Environmental Specialties Int'l, Inc AEP John W. Turk Power Plant, AR SKAPS Industries Commerce, GA TN 220-2-8

We hereby certify the following test results for the above referenced product/project:

Resin Manufacturer	Resin Lot Number	Property	Test Method	Units	Resin Manufacturer Value	Tested Value*
EvvonMobilo Chomical	YOMY 710608	Density	ASTM D1505	g/cm ³	0.9510	0.9508
	XUMX / 10008	Melt flow Index	ASTM D1238 ^(a)	g/10 min	0.27	0.29

(a) Condition 190/2.16

* Data from SKAPS Quality Control



Geotextile Certification

Product: TN 220-2-8 Project : AEP John W. Turk Power Plant, AR

We hereby certify the following test results for the above referenced product/project :

GEOCOMP ROLL#	FABRIC SIDE	WEIGHT oz/yd ²	GRAB lbs. (MD)	GRAB ELG % (MD)	GRAB lbs. (XMD)	GRAB ELG % (XMD)	TRAP lbs. (MD)	TRAP lbs. (XMD)	PUNCTURE lbs.	AOS us sieve	PERM-ITY sec ⁻¹
78201010001	Side A	8.32	231	68	235	83	97	115	136	80	1.34
70291010001	Side B	8.16	225	69	231	76	96	110	138	80	1.34
78201010025	Side A	8.10	229	75	234	81	105	116	131	80	1.34
78291010025	Side B	8.35	226	72	232	80	102	120	130	80	1.36
78201010050	Side A	8.15	226	66	242	76	97	113	136	80	1.37
78291010030	Side B	8.43	235	72	239	78	101	109	134	80	1.37
79201010075	Side A	8.60	235	70	238	75	95	104	134	80	1.34
/8291010075	Side B	8.55	229	74	236	80	99	106	138	80	1.37
78291010075	Side A	8.32	231	68	235	83	97	115	136	80	1.34
	Side B	8.56	234	71	244	77	104	108	139	80	1.36
79201010125	Side A	8.51	230	67	245	78	103	119	140	80	1.36
78291010125	Side B	8.16	225	69	231	76	96	110	138	80	1.34
79201010150	Side A	8.22	231	71	243	84	104	118	140	80	1.37
78291010150	Side B	8.15	226	66	242	76	97	113	136	80	1.37
79201010175	Side A	8.16	225	69	231	76	96	110	138	80	1.34
/82910101/5	Side B	8.58	228	74	242	84	99	103	133	80	1.36
79201010200	Side A	8.42	234	67	238	85	98	111	137	80	1.39
78291010200	Side B	8.56	234	71	244	77	104	108	139	80	1.36
70201010225	Side A	8.17	233	65	237	85	100	105	137	80	1.36
/0291010225	Side B	8.32	231	68	235	83	97	115	136	80	1.34



APPENDIX R GEOCOMPOSITE CONFORMANCE TEST RESULTS



Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010001 . TRI Log #: 32447

													STD.	PROJ.
PARAMET	ER	TEST RE	PLICATE NU	JMBER								MEAN	DEV.	SPEC.
Hydraulic T	ransmissivity (ASTM D 4	1 716)	2	3	4	Plat	e	7	8	9	10			
Direction Te Normal Loa Hydraulic G Test Length Test Width	asted: Machine Direction d (psf): 10,000 radient: 1 i (in) 12 (in) 12		In 	flow	XXXX	XXXX	XXXX	XXX	Outflow ──►					
Plate / Sam	ple / Plate			DS	GC	Plat	e							
Seat Time		Specimon		1	•••		.• 2							
(Hours)	Volume (cc) Time (s) Flow Rate (GPM/ft width)	610 5.59 1.72	608 5.51 1.74	602 5.51 1.72	626 5.47 1.81	628 5.43 1.83	631 5.46 1.83				1.78	0.05	
0.25	Transmissivity (m^2/s) Test Temp (C) Temp. Corr. Factor		3.56E-04	3.60E-04 20.4 0.995	3.57E-04	3.75E-04	3.79E-04 20.2 0.999	3.79E-04				3.68E-04	1.12E-05	1.00E-04 min
Peel Streng	gth (ASTM D 7005)													
A - MD Ave A - MD Ave	rage Peel Strength (ppi) rage Peel Strength (g/in)	2.57 1167	0.98 447	3.43 1557	1.91 867	2.88 1308						2.35 1069	0.94 428	1.0 min
B - MD Ave	rage Peel Strength (ppi)	3.36	3.46	2.67	1.80	4.12						3.08	0.88	1.0 min
B - MD Ave	rage Peel Strength (g/in)	1525	1571	1212	817	1870						1399	400	
Note: A and	B represent a randomly a	ssigned top	o and bottom	of the samp	le									
Thickness	(ASTM D 5199)					GEON	NET COMPC	NENT						
Thickness (mils)	233	240	242	237	238	233	238	240	240	238	238 233	3 << min	200 min
Density (AS	STM D 1505)					GEON	NET COMPC	NENT						
Density (g/c	:m3)	0.952	0.953	0.953								0.953	0.001	0.940 min
Carbon Bla	ck Content (ASTM D 421	8)				GEON	NET COMPC	NENT						
% Carbon E	Black	2.46	2.47									2.47	0.01	
Tensile Pro	perties (ASTM D 5035, 1	2 ipm strai	n rate)			GEON	NET COMPC	NENT						
MD Max. St	rength (ppi)	61	63	78	63	69						67	7	
MD Elong.	@ Max. Strength (%)	41	31	34	33	36						35	4	

MD Machine Direction TD Transverse Direction

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010001 TRI Log #: 32447

GEOTEXTILE - SIDE A

PARAMETER	TEST RE	PLICATE NI	JMBER								MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.19	3.85	3.76	3.39	4.05	3.74	3.96	4.10	3.73	4.48	3.93	0.30	
Mass/Unit Area (oz/sq.yd)	9.75	8.96	8.75	7.89	9.42	8.70	9.21	9.54	8.68	10.42	9.13	0.70	8 min
Grab Tensile Properties (ASTM I	D 4632)												
MD - Tensile Strength (lbs)	256	264	235	224	336	345	244	256	209	240	261	45	220 min
TD - Tensile Strength (lbs)	295	299	282	277	313	297	302	335	249	290	294	23	220 min
MD - Elong. @ Max. Load (%)	97	85	88	89	83	76	83	85	80	82	85	6	50 min
TD - Elong. @ Max. Load (%)	101	92	99	97	116	103	91	99	98	102	100	7	50 min
CBR Puncture Strength (ASTM	D 6241)												
Puncture Resistance (lbs)	929	929	873	885	932	907	887	931	923	903	910	22	600 min
Apparent Opening Size (ASTM D	0 4751)												
Opening Size Diameter (mm)	0.103	0.103	0.095	0.099	0.105						0.101	0.004	
Sieve No.	140	140	140	140	140						140]	80 min
MD Marshine Direction	TD Taxaa												

MD Machine Direction TD Transverse Direction

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010001 TRI Log #: 32447

GEOTEXTILE - SIDE B

DADAMETED	TEST DE		IMRED								MEAN	STD.	PROJ.
	1	2	3	4	5	6	7	8	9	10	MEAN	DLV.	JF LO.
Mass/Unit Area (ASTM D 5261)		_	-	-	-	-		-	-				
5" diameter Circle - Mass (g)	3.85	3.35	3.91	4.10	4.49	4.13	3.68	3.28	3.62	3.79	3.82	0.37	
Mass/Unit Area (oz/sq.yd)	8.96	7.79	9.09	9.54	10.44	9.61	8.56	7.63	8.42	8.82	8.89	0.85	8 min
Grab Tensile Properties (ASTM D) 4632)												
MD - Tensile Strength (lbs)	241	244	232	217	336	215	225	232	206	285	243	39	220 min
TD - Tensile Strength (lbs)	276	270	274	262	273	235	313	288	307	339	284	29	220 min
MD - Elong. @ Max. Load (%)	83	83	91	83	84	79	99	85	85	80	85	6	50 min
TD - Elong. @ Max. Load (%)	100	92	92	93	93	96	99	93	95	107	96	5	50 min
CBR Puncture Strength (ASTM I	D 6241)												
Puncture Resistance (lbs)	860	848	911	868	839	830	897	828	794	874	855	35	600 min
Apparent Opening Size (ASTM D	4751)												
Opening Size Diameter (mm)	0.096	0.089	0.096	0.100	0.105						0.097	0.006	
Sieve No.	140	140	140	140	140						140]	80 min
MD Machine Direction	TD Transv	erse Directio	on										

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST OR 512.263.2101



Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010030 . TRI Log #: 32447

DADAMET		TECT DE										MEAN	STD.	PROJ.
PARAMET	ER	1E51 RE		JMBER	-	-	4		0		10	MEAN	DEV.	SPEC.
Hydraulic T	ransmissivity (ASTM D 4	716)	2	3	4	Plat	e	,	0	9	10			
Direction Te Normal Loa Hydraulic G Test Length Test Width	asted: Machine Direction d (psf): 10,000 radient: 1 i (in) 12 (in) 12		In 	flow	XXXX	XXXX	XXXX	XXX	Outflow ►					
Plate / Sam	ple / Plate			DS	GC	Plat	е							
Seat Time		Caracian				1 101	•							
(hours)		Specimen	011	1	011	501	2	500						
	Volume (cc)		911	918	911	591	589	580						
	Flow Rate (GPM/ft width	n)	1 40	10.44	1 40	5.44 1.74	0.44 1.74	5.45 1.71				1.57	0.18	
0.25	Transmissivity (m^2/s)	9	2.91E-04	2.92E-04	2.91E-04	3.61E-04	3.60F-04	3.54E-04				3.25E-04	3.69E-05	1.00F-04 min
	Test Temp (C)			19.7			19.6							
	Temp. Corr. Factor			1.011			1.013							
Peel Streng	gth (ASTM D 7005)													
A - MD Ave	rage Peel Strength (ppi)	2.60	0.42	2.46	2.59	3.21						2.26	1.07	1.0 min
A - MD Ave	rage Peel Strength (g/in)	1180	190	1117	1176	1457						1024	485	
												-		
B - MD Ave	rage Peel Strength (ppi)	0.44	0.64	1.09	2.02	2.02						1.24	0.75	1.0 min
B - MD Ave	rage Peel Strength (g/in)	200	290	495	917	917						564	340	
Note: A and	B represent a randomly a	ssianed to	and bottom	of the samp	le									
Thickness	(ASTM D 5100)	5 1				GEON								
THICKIESS	(ASTNID 0199)					GLUI								
Thickness (mils)	229	234	228	238	239	236	233	232	240	231	234 228	4 << min	200 min
Density (As	STM D 1505)					GEON	NET COMPC	NENT						
Density (g/c	:m3)	0.953	0.953	0.954								0.953	0.001	0.940 min
Carbon Bla	ck Content (ASTM D 421	8)				GEON	NET COMPC	NENT						
% Carbon E	Black	2.53	2.53									2.53	0.00	
Tensile Pro	perties (ASTM D 5035, 1	2 ipm strai	n rate)			GEON	NET COMPC	NENT						
MD Max. Si	rength (ppi)	65	65	55	69	62						63	5	
MD Elong.	@ Max. Strength (%)	31	33	29	32	38						33	3	

MD Machine Direction TD Transverse Direction

TRI ENVIRONMENTAL, INC.

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010030 TRI Log #: 32447

GEOTEXTILE - SIDE A

	TEST DE										MEAN	STD.	PROJ.
PARAMETER	1 1			4	5	6	7	8	0	10	WEAN	DEV.	SPEC.
Mass/Unit Area (ASTM D 5261)	·	-	Ū		Ū	Ū	•	Ū		10			
5" diameter Circle - Mass (g)	3.82	4.06	3.78	3.52	3.92	4.48	3.62	3.55	4.10	3.51	3.84	0.31	
Mass/Unit Area (oz/sq.yd)	8.89	9.44	8.79	8.19	9.12	10.42	8.42	8.26	9.54	8.16	8.92	0.73	8 min
Grab Tensile Properties (ASTM I	D 4632)												
MD - Tensile Strength (lbs)	320	228	198	293	211	284	244	244	250	276	255	38	220 min
TD - Tensile Strength (lbs)	286	302	283	302	299	260	307	275	301	262	288	17	220 min
MD - Elong. @ Max. Load (%)	87	81	71	72	85	81	89	88	100	80	83	9	50 min
TD - Elong. @ Max. Load (%)	105	96	93	107	104	101	93	91	98	99	99	6	50 min
CBR Puncture Strength (ASTM	D 6241)												
Puncture Resistance (lbs)	859	928	869	883	876	893	813	820	749	923	861	54	600 min
Apparent Opening Size (ASTM D	0 4751)												
Opening Size Diameter (mm)	0.092	0.075	0.102	0.100	0.138						0.102	0.023	
Sieve No.	140	200	140	140	100						140]	80 min
	TD Tasaa	Disc ette											

MD Machine Direction TD Transverse Direction

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010030 TRI Log #: 32447

GEOTEXTILE - SIDE B

PARAMETER	TEST REI	PLICATE NU	JMBER								MEAN	STD. DEV.	PROJ. SPEC.
-	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.19	3.34	3.39	3.78	4.40	3.74	3.75	3.76	4.19	4.73	3.93	0.44	
Mass/Unit Area (oz/sq.yd)	9.75	7.77	7.89	8.79	10.23	8.70	8.72	8.75	9.75	11.00	9.13	1.03	8 min
Grab Tensile Properties (ASTM	0 4632)												
MD - Tensile Strength (lbs)	272	259	210	284	233	278	197	210	247	283	247	33	220 min
TD - Tensile Strength (lbs)	263	316	277	313	389	248	297	226	283	397	301	56	220 min
MD - Elong. @ Max. Load (%)	83	91	97	85	89	77	88	83	85	87	86	6	50 min
TD - Elong. @ Max. Load (%)	103	101	96	97	117	99	94	99	88	116	101	9	50 min
CBR Puncture Strength (ASTM I	D 6241)												
Puncture Resistance (lbs)	847	832	753	849	975	802	894	884	830	1052	872	86	600 min
Apparent Opening Size (ASTM D	4751)												
Opening Size Diameter (mm)	0.094	0.099	0.103	0.103	0.148						0.110	0.022	
Sieve No.	140	140	140	140	100						100]	80 min
MD Machine Direction	TD Transv	erse Directio	on										



Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010060 . TRI Log #: 32447

													STD.	PROJ.
PARAMET	ER	TEST RE	PLICATE NU	JMBER								MEAN	DEV.	SPEC.
Hydraulic 1	Fransmissivity (ASTM D 4	1 716)	2	3	4	Plat	e	7	8	9	10			
Direction Te Normal Loa Hydraulic G Test Length Test Width	action Direction id (psf): 10,000 iradient: 1 n (in) 12 (in) 12		In 	flow	XXXX	XXXX	XXXX	XXX	Outflow ►					
Plate / Sam	ple / Plate			DS	GC	Plat	е							
Seat Time		Specimon		1										
(nours)	Volume (cc)	Specimen	904	898	892	935	928	933						
0.25	Flow Rate (GPM/ft width Transmissivity (m^2/s) Test Temp (C) Temp. Corr. Factor	1)	5.45 2.65 5.47E-04	5.46 2.62 5.43E-04 19.9 1.006	5.47 2.60 5.38E-04	5.56 2.69 5.56E-04	5.50 2.70 5.58E-04 19.8 1.008	5.57 2.68 5.54E-04				2.65 5.49E-04	0.04 7.97E-06	1.00E-04 min
Peel Streng	gth (ASTM D 7005)													
A - MD Ave	rage Peel Strength (ppi)	1.43	3.96	3.01	3.18	2.37						2.79	0.95	1.0 min
A - MD Ave	rage Peel Strength (g/in)	649	1798	1367	1444	1076						1267	430	
B - MD Ave	rage Peel Strength (ppi)	4.01	0.78	3.08	1.91	2.25						2.41	1.22	1.0 min
B - MD Ave	rage Peel Strength (g/in)	1821	354	1398	867	1022						1092	553	
Note: A and	B represent a randomly a	ssigned to	o and bottom	of the samp	le									
Thickness	(ASTM D 5199)					GEON	IET COMPC	NENT						
Thickness (ímils)	229	229	234	234	238	229	230	236	235	238	233 229	4 << min	200 min
Density (A	STM D 1505)					GEON	IET COMPC	NENT						
Density (g/o	cm3)	0.953	0.954	0.954								0.954	0.001	0.940 min
Carbon Bla	ick Content (ASTM D 421	8)				GEON	IET COMPC	NENT						
% Carbon E	Black	2.43	2.40									2.42	0.02	
Tensile Pro	operties (ASTM D 5035, 1	2 ipm strai	n rate)			GEON	IET COMPC	NENT						
MD Max. S	trength (ppi)	62	64	58	61	51						59	5	
MD Elong.	@ Max. Strength (%)	41	32	35	48	38						39	6	

MD Machine Direction TD Transverse Direction

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010060 TRI Log #: 32447

GEOTEXTILE - SIDE A

PARAMETER	TEST RE	PLICATE N	IMBER								MFAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.16	3.55	3.41	3.55	3.64	4.00	3.95	3.69	3.91	3.85	3.77	0.24	
Mass/Unit Area (oz/sq.yd)	9.68	8.26	7.93	8.26	8.47	9.30	9.19	8.58	9.09	8.96	8.77	0.56	8 min
Grab Tensile Properties (ASTM	D 4632)												
MD - Tensile Strength (lbs)	276	210	225	280	269	279	209	231	226	237	244	29	220 min
TD - Tensile Strength (lbs)	263	261	299	308	294	272	265	278	287	283	281	16	220 min
MD - Elong. @ Max. Load (%)	81	79	86	81	85	79	77	78	82	69	80	5	50 min
TD - Elong. @ Max. Load (%)	99	95	96	99	103	99	97	95	102	110	99	5	50 min
CBR Puncture Strength (ASTM	D 6241)												
Puncture Resistance (lbs)	795	770	791	886	827	869	879	798	915	963	849	63	600 min
Apparent Opening Size (ASTM D	0 4751)												
Opening Size Diameter (mm)	0.101	0.071	0.103	0.119	0.123						0.104	0.020	
Sieve No.	140	200	140	100	100						140]	80 min
· · · · · · · · · · · · · · · · · · ·													

MD Machine Direction TD Transverse Direction

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010060 TRI Log #: 32447

GEOTEXTILE - SIDE B

											l	STD.	PROJ.
PARAMETER	TEST REF	PLICATE NU	JMBER								MEAN	DEV.	SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.29	3.92	3.67	3.91	3.73	3.63	3.60	3.78	3.75	3.94	3.82	0.20	
Mass/Unit Area (oz/sq.yd)	9.98	9.12	8.54	9.09	8.68	8.44	8.37	8.79	8.72	9.16	8.89	0.47	8 min
Grab Tensile Properties (ASTM D	4632)												
MD - Tensile Strength (lbs)	306	218	235	236	242	313	238	233	215	293	253	36	220 min
TD - Tensile Strength (lbs)	306	303	342	268	291	272	327	309	301	298	302	22	220 min
MD - Elong. @ Max. Load (%)	77	90	86	81	82	81	88	83	80	92	84	5	50 min
TD - Elong. @ Max. Load (%)	108	89	97	91	99	95	95	115	92	109	99	9	50 min
CBR Puncture Strength (ASTM D	0 6241)												
Puncture Resistance (lbs)	1022	943	875	840	886	884	838	854	857	849	885	57	600 min
Apparent Opening Size (ASTM D	4751)												
Opening Size Diameter (mm)	0.103	0.103	0.104	0.104	0.142						0.111	0.017	
Sieve No.	140	140	140	140	100						100]	80 min
MD Machine Direction	TD Transv	erse Directio	on										

TRI ENVIRONMENTAL, INC.



Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010090 . TRI Log #: 32447

	FD	TEET DE										MEAN	STD.	PROJ.
PARAIVIET	LR	1E31 KE			4	5	4	7	0	0	10	MEAN	DEV.	SPEC.
Hydraulic T	ransmissivity (ASTM D 4	716)	2	3	4	Plat	e	,	0	7	10			
Direction Te Normal Loa Hydraulic G Test Length Test Width	asted: Machine Direction d (psf): 10,000 radient: 1 i (in) 12 (in) 12		In 	flow	XXXX	XXXX	XXXX	XXX	Outflow ►					
Plate / Sam	ple / Plate			DS	GC	Plat	e							
(bours)		Snacimon		1			2							
(nours)	Volume (cc)	Specimen	581	580	585	632	623	631						
	Time (s)		5 4 4	5 52	5 5 7	5 52	5 46	5 51						
	Flow Rate (GPM/ft width	n)	1.71	1.71	1.69	1.84	1.83	1.84				1.77	0.07	
0.25	Transmissivity (m ² /s)	-7	3.55E-04	3.55E-04	3.49E-04	3.80E-04	3.79E-04	3.81E-04				3.66E-04	1.51E-05	1.00E-04 min
	Test Temp (C)			19.6			19.6					·		
	Temp. Corr. Factor			1.013			1.013							
Peel Streng	gth (ASTM D 7005)													
	rage Peel Strength (ppi)	2 45	3 92	3 47	2 22	2.93						3.00	0.70	1.0 min
A - MD Ave	rage Peel Strength (g/in)	1112	1780	1575	1008	1330						1361	320	1.0 11111
	lago r oor oa ongar (grin)		1700	1070	1000	1000							020	
B - MD Ave	rage Peel Strength (ppi)	1.96	2.71	1.98	2.16	2.31						2.22	0.31	1.0 min
B - MD Ave	rage Peel Strength (g/in)	890	1230	899	981	1049						1010	139	
Note: A and	B represent a randomly a	ssigned to	o and bottom	of the samp	le									
Thickness	(ASTM D 5199)					GEON	NET COMPC	NENT						
Thickness (mils)	230	229	231	225	230	227	231	235	227	227	229 225	3 << min	200 min
Density (AS	STM D 1505)					GEON	NET COMPC	NENT						
Density (g/c	:m3)	0.951	0.951	0.951								0.951	0.000	0.940 min
Carbon Bla	ck Content (ASTM D 421	8)				GEON	NET COMPC	NENT						
% Carbon E	Black	2.49	2.49									2.49	0.00	
Tensile Pro	perties (ASTM D 5035, 1	2 ipm strai	n rate)			GEON	NET COMPC	NENT						
MD Max. St	rength (ppi)	60	66	69	60	60						63	4	
MD Elong.	@ Max. Strength (%)	36	31	34	33	40						35	4	

MD Machine Direction TD Transverse Direction

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010090 TRI Log #: 32447

GEOTEXTILE - SIDE A

PARAMETER	TEST REF	PLICATE NU	IMBER								MFAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.03	3.86	3.59	3.85	4.03	3.44	4.07	3.30	3.47	3.87	3.75	0.28	
Mass/Unit Area (oz/sq.yd)	9.37	8.98	8.35	8.96	9.37	8.00	9.47	7.68	8.07	9.00	8.72	0.65	8 min
Grab Tensile Properties (ASTM	D 4632)												
MD - Tensile Strength (lbs)	291	238	215	273	214	266	247	262	236	294	254	29	220 min
TD - Tensile Strength (lbs)	233	253	266	292	300	250	255	282	321	337	279	33	220 min
MD - Elong. @ Max. Load (%)	79	77	89	77	85	75	81	82	87	79	81	5	50 min
TD - Elong. @ Max. Load (%)	108	97	107	100	104	113	91	103	101	103	103	6	50 min
CBR Puncture Strength (ASTM	D 6241)												
Puncture Resistance (lbs)	905	890	882	875	868	945	730	800	786	846	853	64	600 min
Apparent Opening Size (ASTM D	0 4751)												
Opening Size Diameter (mm)	0.099	0.075	0.100	0.103	0.078						0.091	0.014	
Sieve No.	140	200	140	140	140						140]	80 min
· · · · · · · · · · · · · · · · · · ·											l		

MD Machine Direction TD Transverse Direction

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010090 TRI Log #: 32447

GEOTEXTILE - SIDE B

												STD.	PROJ.
PARAMETER	TEST REF	LICATE NU	JMBER								MEAN	DEV.	SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.50	3.83	3.72	3.57	3.64	3.76	4.11	3.70	3.69	3.76	3.83	0.28	
Mass/Unit Area (oz/sq.yd)	10.47	8.91	8.65	8.30	8.47	8.75	9.56	8.61	8.58	8.75	8.90	0.64	8 min
Grab Tensile Properties (ASTM D	4632)												
MD - Tensile Strength (lbs)	246	232	248	275	284	282	237	248	239	269	256	20	220 min
TD - Tensile Strength (lbs)	276	272	259	266	279	333	305	283	271	319	286	24	220 min
MD - Elong. @ Max. Load (%)	79	101	77	80	84	81	90	79	73	82	83	8	50 min
TD - Elong. @ Max. Load (%)	109	94	99	99	95	109	96	95	89	115	100	8	50 min
CBR Puncture Strength (ASTM D	6241)												
Puncture Resistance (lbs)	945	914	798	912	809	846	833	794	781	951	858	66	600 min
Apparent Opening Size (ASTM D	4751)												
Opening Size Diameter (mm)	0.101	0.102	0.102	0.105	0.146						0.111	0.020	
Sieve No.	140	140	140	140	100						100]	80 min
MD Machine Direction	TD Transv	erse Directio	on										



Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010120 . TRI Log #: 32447

PARAME LER TEST REPUIGATE MUNDER MEAN DEV. SPEC. Hydraulic Transmissivity (ASTM D 4716) 2 3 4 5 6 7 8 9 10 Protection Transmissivity (ASTM D 4716) 1 2 3 4 5 6 7 8 9 10 Protection Transmissivity (ASTM D 4716) 10000		-												STD.	PROJ.	
Hydraulic Tarasmissivity (ASTM D 4710) 2 3 4 5 7 8 7 8 7 8 7 8 7 8 7 8 <td>PARAMETE</td> <td>-R</td> <td>IEST RE</td> <td></td> <td>MBEK</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- 10</td> <td>MEAN</td> <td>DEV.</td> <td>SPEC.</td>	PARAMETE	-R	IEST RE		MBEK							- 10	MEAN	DEV.	SPEC.	
Decision Tested: Muchine Treeters hyperbalic: Cardini: Test Langin (n) 10000 12 100000 12 100000 12 1000000 12 1000000000000000000000000000000000000	Hydraulic T	ransmissivity (ASTM D 4	1 716)	2	3	4	Plat	e	,	8	9	10				
Prote / Sample / Plate V DS GC Plate Seat Time (nours) Specimen 1 2 0.25 Filow Rate (GPMR1 width) 2.60 2.55 2.54 2.53 2.50 2.47 0.25 Filow Rate (GPMR1 width) 2.60 2.55 2.54 2.53 2.50 2.47 0.25 Filow Rate (GPMR1 width) 2.60 2.55 2.54 0.51 10.06 10.06 Pel Strength (ASTM D 7005)	Direction Te Normal Load Hydraulic G Test Length Test Width (Sted: Machine Direction d (psf): 10,000 radient: 1 (in) 12 (in) 12		In 	flow	XXXX	XXXX	XXXX	XXX	Outflow ➡						
Seat Time Spectmen 2 (hurs) Spectmen 878 874 868 867 857 857 857 0.25 Time (s) Spectmen 878 874 868 867 857 857 857 0.25 Time (s) Spectmen 878 874 868 867 857 857 857 0.25 Flow Rate (cPMIN twidth) 2.60 2.55 2.54 2.51 2.50 2.47 5.50 2.47 Test Temp (C) Test Temp (C) 5.39E-04 5.28E-04 5.28E-04 5.18E-04 5.11E-04 5.12E-0E-01 5.00E 8.00 8.00	Plate / Sam	ple / Plate			DS	GC	Plat	e								
(nours) (spectrum)	Seat Time		C				1 101									
volume (c) 67/3 67/4 900 607	(hours)		Specimen	070	1	0/0	0/7	2	057							
10.25 Finde (s) Transmissivity (m²/z) Transmissivity (m²/z) Temp. Corr. Factor 3.40 5.260 5.22E-04 3.40 5.24E-04 9.22E-06 1.00E-04 min Peel Strength (pp) A · MD Average Peel Strength (pp) A · MD Average Peel Strength (pp) A · MD Average Peel Strength (pp) 3.6 1.19 1.44 2.49 1.07 1.87 0.91 1.0 min MD Average Peel Strength (pp) 3.66 2.07 2.53 1.96 1.54 1.79 0.63 1.0 min B · MD Average Peel Strength (pp) 0.86 2.07 2.53 1.96 1.54 1.79 0.63 1.0 min B · MD Average Peel Strength (pp) 0.86 2.07 2.53 1.96 1.54 1.79 0.63 1.0 min B · MD Average Peel Strength (pp) 0.86 2.07 2.53 1.96 1.54 1.79 0.63 1.0 min Thickness (mils) 0.951		Volume (cc)		8/8	8/4 E 44	808 E 44	807 E 44	857	857							
0.25 Trian rules (0, mm rules) Test Temp (C) Test Test Temp (C) Test Temp (C) Test Test Temp (C) Test Test Temp (C) Test Test Temp (C) Test Test Test Test (C) Test Test		Flow Pate (GPM/ft width	2)	2.50	2.55	2.54	2.53	2.50	2.33				2.53	0.04		
Test Temp (c) Test Temp (c) Test Temp (c) Test Temp (c) Temp. Corr. Factor Temp. Corr. Factor Temp. Corr. Factor Temp. Corr. Factor Test Temp (c) Test Temp. Corr. Factor Test Temp (c) Test Temp (c) Temp. Corr. Factor Test Temp (c)	0.25	Transmissivity (m^2/s)	9	5 39E-04	5 28F-04	5 25F-04	5 24F-04	5 18F-04	5 11F-04				5 24F-04	9 22F-06	1 00F-04 min	
Temp. Car. Factor 1.006 1.006 Peel Strength (ASTM D 7005) Image: Car. Factor Image:		Test Temp (C)			19.9			19.9								
Peel Strength (ASTM D 7005) A · MD Average Peel Strength (pp) 3.16 1.19 1.44 2.49 1.07 A · MD Average Peel Strength (g/in) 1435 540 654 1130 486 B · MD Average Peel Strength (g/in) 0.86 2.07 2.53 1.96 1.54 B · MD Average Peel Strength (g/in) 389 940 1149 890 699 Note: A and B represent a randomly assigned top and bottom of the sample ECONET COMPONENT 1.79 0.63 1.0 min Thickness (MIIs) 234 231 226 229 227 235 233 226 231 230 3 200 min Carbon Black 0.951 0.951 0.952 ECONET COMPONENT 0.955 0.955 0.001 0.940 min Carbon Black 2.46 2.43 ECONET COMPONENT 2.45 0.02 0.92 MD Average Properties (ASTM D 5035, 12 lpm strain rate) GEONET COMPONENT 2.45 0.02 57 5 MD Max. Strength (pp) 57 49 57 58 62 57 5 MD Elong. @		Temp. Corr. Factor			1.006			1.006								
A. MD Average Peel Strength (pf) 3.16 1.19 1.44 2.49 1.07 1.87 0.91 1.0 min A. MD Average Peel Strength (pf) 1.435 540 654 1130 486 1.97 415 1.0 min B. MD Average Peel Strength (pf) 0.86 2.07 2.53 1.96 1.54 1.79 0.63 1.0 min B. MD Average Peel Strength (g/in) 389 940 1149 890 699 1.54 1.79 0.63 1.0 min Note: A and B represent a randomly assigned top and bottom of the sample ECONET COMPONENT 1.0 min 230 3 200 min Thickness (mils) 234 231 226 229 227 235 233 226 231 231 230 3 200 min Density (ASTM D 1505) EGONET COMPONENT EGONET COMPONENT 0.951 0.001 0.940 min Carbon Black 0.46 0.45 0.952 EGONET COMPONENT 0.951 0.001 0.940 min MD Ax. Strength (pp) 57 49 57 58 62 57 57 5 </td <td>Deel Streng</td> <td>th (ASTM D 7005)</td> <td></td>	Deel Streng	th (ASTM D 7005)														
A · MD Average Peel Strength (pp) 3.16 1.19 1.44 2.49 1.07 A · MD Average Peel Strength (g/m) 1.45 540 654 1130 486 1130 486 B · MD Average Peel Strength (g/m) 0.86 2.07 2.53 1.96 1.54 1.79 849 415 1.0 min B · MD Average Peel Strength (g/m) 0.86 2.07 2.53 1.96 1.54 1.79 86.3 1.0 min Note: A and B represent a randomly assigned top and bottom of the sample SCONET COMPONENT 1.87 849 33 226 231 231 226 3 200 min Thickness (mils) 234 231 226 229 227 235 233 226 231 231 220 3 200 min Carbon Black (ASTM D 1505) 0.951 0.951 0.952 EGONET COMPONENT 0.951 0.001 0.940 min Carbon Black Content (ASTM D 4218) GEONET COMPONENT 0.951 0.002 1.940 min MD Max. Strength (pp) 57 49 57 58 62 57 5	Feel Streng															
A - MD Average Peel Strength (g/m) 1435 540 654 1130 486 849 415 B - MD Average Peel Strength (pp) 0.86 2.07 2.53 1.96 1.54 1.79 0.63 1.0 min B - MD Average Peel Strength (g/m) 389 940 1149 890 699 813 286 10 min Note: A and B represent a randomly assigned top and bottom of the sample GEONET COMPONENT 230 3 200 min Thickness (mlis) 234 231 226 229 227 235 233 226 231 231 230 3 200 min Density (ASTM D 1505) GEONET COMPONENT GEONET COMPONENT 0.951 0.951 0.952 0.951 0.001 0.940 min Carbon Black 2.46 2.43 GEONET COMPONENT 2.45 0.02 0.951 0.001 0.940 min MD Max. Strength (pp) 57 49 57 58 62 57 5 MD Elong. @ Max. Strength (%) 38 33 43 38 32 37 4	A - MD Aver	age Peel Strength (ppi)	3.16	1.19	1.44	2.49	1.07						1.87	0.91	1.0 min	
B - MD Average Peel Strength (prin) 0.86 2.07 2.53 1.96 1.54 B - MD Average Peel Strength (grin) 389 940 1149 890 699 Note: A and B represent a randomly assigned top an bottom of the sample 699 813 286 1.0 min Thickness (ASTM D 5199) EGEONET COMPONENT 600 234 231 226 229 227 235 233 226 231 231 230 3 200 min Density (ASTM D 1505) EGEONET COMPONENT 600	A - MD Aver	age Peel Strength (g/in)	1435	540	654	1130	486						849	415		
B - MD Average Peel Strength (ppi) 0.86 2.07 2.53 1.96 1.54 B - MD Average Peel Strength (g/m) 389 940 1149 890 699 813 286 1.0 min Note: A and B represent a randomly assigned top and bottom of the sample GEONET COMPONENT Thickness (ASTM D 5199) 234 231 226 227 235 233 226 231 231 230 3 200 min Density (ASTM D 1505) E E GEONET COMPONENT 0.951 0.951 0.952 E E 0.951 0.001 0.940 min Carbon Black Content (ASTM D 4218) E GEONET COMPONENT 2.45 0.02 0.02 2.45 0.02 0.940 min MD Max. Strength (ppl) 57 49 57 58 62 57 5 MD Elong, @ Max. Strength (%) 38 33 43 38 32 37 4																
B - MD Average Peel Strength (g/in) 389 940 1149 890 699 813 286 Note: A and B represent a randomly assigned top and bottom of the sample GEONET COMPONENT Thickness (ASTM D 5199) GEONET COMPONENT Thickness (mils) 234 231 226 229 227 235 233 226 231 230 3 200 min Density (ASTM D 1505) GEONET COMPONENT Density (g/cm3) 0.951 0.952 COMPONENT 0.951 0.001 0.940 min Carbon Black Content (ASTM D 4218) GEONET COMPONENT % Carbon Black 2.46 2.43 Component 2.45 0.02 MD Max. Strength (ppi) 57 49 57 58 62 57 5 MD Elong. @ Max. Strength (%) 38 33 43 38 32 37 4	B - MD Aver	age Peel Strength (ppi)	0.86	2.07	2.53	1.96	1.54						1.79	0.63	1.0 min	
Note: A and B represent a randomly assigned top and bottom of the sample GEONET COMPONENT Thickness (ASTM D 5199) GEONET COMPONENT Thickness (mills) 234 231 226 227 235 230 3 200 min Density (ASTM D 1505) GEONET COMPONENT Density (g/cm3) 0.951 0.952 COMPONENT Carbon Black Content (ASTM D 4218) GEONET COMPONENT GEONET COMPONENT Carbon Black 2.46 2.43 CMPONENT MD Max. Strength (pp) 57 <th c<="" td=""><td>B - MD Aver</td><td>age Peel Strength (g/in)</td><td>389</td><td>940</td><td>1149</td><td>890</td><td>699</td><td></td><td></td><td></td><td></td><td></td><td>813</td><td>286</td><td></td></th>	<td>B - MD Aver</td> <td>age Peel Strength (g/in)</td> <td>389</td> <td>940</td> <td>1149</td> <td>890</td> <td>699</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>813</td> <td>286</td> <td></td>	B - MD Aver	age Peel Strength (g/in)	389	940	1149	890	699						813	286	
GEONET COMPONENT GEONET COMPONENT Thickness (mils) 234 231 220 227 235 231 230 3 200 min Thickness (mils) 234 231 230 230 3 200 min Density (ASTM D 1505) GEONET COMPONENT Density (g/cm3) 0.951 0.952 COMPONENT Carbon Black Content (ASTM D 4218) GEONET COMPONENT % Carbon Black 2.46 2.43 Thickness (MSTM D 5035, 12 lpm strain rate) GEONET COMPONENT MD Max. Strength (pp) 57	Note: A and	B represent a randomly a	ssigned to	p and bottom	of the samp	le										
Thickness (mils) 234 231 226 229 227 235 233 226 231 230 3 200 min Density (ASTM D 1505) GEONET COMPONENT Density (g/cm3) 0.951 0.952 0.951 0.001 0.940 min Carbon Black Content (ASTM D 4218) GEONET COMPONENT % Carbon Black 2.46 2.43 CEONET COMPONENT 2.45 0.02 Tensile Properties (ASTM D 5035, 12 lpm strain rate) GEONET COMPONENT MD Max. Strength (ppi) 57 49 57 58 62 57 5 MD Elong. @ Max. Strength (%) 38 33 43 38 32 37 4	Thickness (ASTM D 5199)					GEON		NENT							
Thickness (mils) 234 231 226 229 227 235 233 226 231 230 3 200 min Density (ASTM D 1505) GEONET COMPONENT Density (g/cm3) 0.951 0.951 0.952 CEONET COMPONENT 0.951 0.001 0.940 min Carbon Black Content (ASTM D 4218) GEONET COMPONENT % Carbon Black 2.46 2.43 Ceonet component 2.45 0.02 MD Max. Strength (ppi) 57 49 57 58 62 57 5 MD Elong. @ Max. Strength (%) 38 33 43 38 32 Component 37 4	THICKIESS (ASTM 0 (177)					0L0I									
Density (ASTM D 1505) GEONET COMPONENT Density (g/cm3) 0.951 0.951 0.952 0.951 0.001 0.940 min Carbon Black Content (ASTM D 4218) GEONET COMPONENT 2.45 0.02 % Carbon Black 2.46 2.43 EONET COMPONENT 2.45 0.02 Tensile Properties (ASTM D 5035, 12 lpm strain rate) GEONET COMPONENT EONET COMPONENT EONET COMPONENT MD Max. Strength (ppi) 57 49 57 58 62 57 5 MD Elong. @ Max. Strength (%) 38 33 43 38 32 37 4	Thickness (I	mils)	234	231	226	229	227	235	233	226	231	231	230 226	3 << min	200 min	
Density (g/cm3) 0.951 0.951 0.952 0.951 0.001 0.940 min GEONET COMPONENT % Carbon Black 2.46 2.43 GEONET COMPONENT 2.45 0.02 2.45 0.02 Tensile Properties (ASTM D 5035, 12 jm stralm rate) GEONET COMPONENT MD Max. Strength (ppi) 57 49 57 58 62 57 5 MD Elong. @ Max. Strength (%) 38 33 43 38 32 37 4	Density (AS	STM D 1505)					GEO	NET COMPC	NENT							
Carbon Black Content (ASTM D 4218) GEONET COMPONENT % Carbon Black 2.46 2.43 2.45 0.02 Tensile Properties (ASTM D 5035, 12 lpm strain rate) GEONET COMPONENT 2.45 0.02 MD Max. Strength (ppi) 57 49 57 58 62 57 5 MD Elong. @ Max. Strength (%) 38 33 43 38 32 37 4	Density (g/c	m3)	0.951	0.951	0.952								0.951	0.001	0.940 min	
% Carbon Black 2.46 2.43 2.45 0.02 Tensile Properties (ASTM D 5035, 12 lpm straln rate) GEONET COMPONENT 6000000000000000000000000000000000000	Carbon Bla	ck Content (ASTM D 421	8)				GEON	NET COMPC	NENT							
Tensile Properties (ASTM D 5035, 12 lpm strain rate) GEONET COMPONENT MD Max. Strength (ppi) 57 49 57 58 62 57 5 MD Elong. @ Max. Strength (%) 38 33 43 38 32 37 4	% Carbon B	lack	2.46	2.43									2.45	0.02		
MD Max. Strength (ppi) 57 49 57 58 62 57 5 MD Elong. @ Max. Strength (%) 38 33 43 38 32 37 4	Tensile Pro	pertles (ASTM D 5035, 1	2 ipm strai	in rate)			GEO	NET COMPC	NENT							
MD Elong. @ Max. Strength (%) 38 33 43 38 32 37 4	MD Max. St	rength (ppi)	57	49	57	58	62						57	5		
	MD Elong.	@ Max. Strength (%)	38	33	43	38	32						37	4		

MD Machine Direction TD Transverse Direction

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010120 TRI Log #: 32447

GEOTEXTILE - SIDE A

PARAMETER	TEST RE	NICATE NI	IMBER								MFAN	STD. DEV	PROJ.
	1	2	3	4	5	6	7	8	9	10	WIL/ UV	DLT.	01 20.
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.58	4.03	3.66	3.47	4.01	4.14	3.66	3.48	3.41	3.89	3.83	0.37	
Mass/Unit Area (oz/sq.yd)	10.65	9.37	8.51	8.07	9.33	9.63	8.51	8.09	7.93	9.05	8.92	0.86	8 min
Grab Tensile Properties (ASTM	D 4632)												
MD - Tensile Strength (lbs)	317	244	248	237	321	291	241	282	238	285	271	33	220 min
TD - Tensile Strength (lbs)	299	282	267	247	258	338	316	307	288	297	290	28	220 min
MD - Elong. @ Max. Load (%)	79	79	82	83	84	76	81	85	89	85	82	4	50 min
TD - Elong. @ Max. Load (%)	109	97	93	89	98	109	100	96	100	111	100	7	50 min
CBR Puncture Strength (ASTM	D 6241)												
Puncture Resistance (lbs)	1019	889	858	884	962	886	914	726	795	914	885	81	600 min
Apparent Opening Size (ASTM D	0 4751)												
Opening Size Diameter (mm)	0.104	0.097	0.101	0.104	0.105						0.102	0.003	
Sieve No.	140	140	140	140	140						140]	80 min
											l		

MD Machine Direction TD Transverse Direction

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010120 TRI Log #: 32447

GEOTEXTILE - SIDE B

	TEST DE		IMRED								MEAN	STD.	PROJ.
	1	2	3	4	5	6	7	8	9	10	MEAN	DLV.	JFLO.
Mass/Unit Area (ASTM D 5261)	•	-	•		•	•		•					
5" diameter Circle - Mass (g)	4.22	3.87	3.57	3.60	3.95	3.97	3.60	3.57	3.77	3.75	3.79	0.22	
Mass/Unit Area (oz/sq.yd)	9.82	9.00	8.30	8.37	9.19	9.23	8.37	8.30	8.77	8.72	8.81	0.50	8 min
Grab Tensile Properties (ASTM D	4632)												
MD - Tensile Strength (lbs)	286	224	283	265	249	298	241	270	232	290	264	26	220 min
TD - Tensile Strength (lbs)	245	329	286	252	283	324	285	282	262	247	280	29	220 min
MD - Elong. @ Max. Load (%)	75	79	89	81	87	72	87	85	76	85	82	6	50 min
TD - Elong. @ Max. Load (%)	103	103	98	91	97	103	93	102	94	99	98	4	50 min
CBR Puncture Strength (ASTM D) 6241)												
Puncture Resistance (lbs)	895	1034	824	876	820	935	879	920	830	979	899	70	600 min
Apparent Opening Size (ASTM D	4751)												
Opening Size Diameter (mm)	0.102	0.103	0.104	0.109	0.138						0.111	0.015	
Sieve No.	140	140	140	100	100						100]	80 min
MD Machine Direction	TD Transv	erse Directio	on										

TRI ENVIRONMENTAL, INC.



Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010150 TRI Log #: 32447

													STD.	PROJ.
PARAMETI	ER	TEST RE	PLICATE NU	JMBER								MEAN	DEV.	SPEC.
Hydraulic T	ransmissivity (ASTM D 4	1 716)	2	3	4	Plat	e	7	8	9	10			
Direction Te Normal Loa Hydraulic G Test Length Test Width	Sted: Machine Direction d (psf): 10,000 radient: 1 l (in) 12 (in) 12		In 	flow	XXXX	XXXX	XXXX	XXX	Outflow ➡					
Plate / Sam	ple / Plate			DS	GC	Plat	е							
(bours)		Snacimon		1			2							
(nours)	Volume (cc)	Specimen	616	505	610	649	2 6/1	633						
	Time (s)		5 58	5 40	5 58	5 5 2	5 50	5 51						
	Flow Rate (GPM/ft width	1)	1.77	1.77	1.75	1.88	1.87	1.84				1.81	0.06	
0.25	Transmissivity (m ² /s)	,	3.66E-04	3.65E-04	3.62E-04	3.90E-04	3.86E-04	3.81E-04				3.75E-04	1.20E-05	1.00E-04 min
	Test Temp (C)			19.7			19.7							
	Temp. Corr. Factor			1.011			1.011							
Peel Streng	th (ASTM D 7005)													
	rage Deel Strength (ppi)	1 24	2 10	2.02	1 4 7	2 01						2 70	1 25	1.0 min
	rage Peel Strength (g/in)	572	1448	1780	758	1775						1267	569	1.0 11111
A MD AVC	age i cei strengti (gili)	572	1440	1700	750	1775							507	
B - MD Ave	rage Peel Strength (ppi)	1.42	2.57	1.90	1.60	3.52						2.20	0.86	1.0 min
B - MD Ave	rage Peel Strength (g/in)	645	1167	863	726	1598						1000	389	
Note: A and	B represent a randomly a	ssigned to	o and bottom	of the samp	le									
Thickness	(ASTM D 5199)					GEON	NET COMPC	NENT						
Thickness (mils)	231	232	232	229	230	229	226	229	227	230	230 226	2 << min	200 min
Density (AS	STM D 1505)					GEON	NET COMPC	NENT						
Density (g/c	m3)	0.953	0.954	0.954								0.954	0.001	0.940 min
Carbon Bla	ck Content (ASTM D 421	8)				GEON	NET COMPC	NENT						
% Carbon B	Black	2.49	2.51									2.50	0.01	
Tensile Pro	perties (ASTM D 5035, 1	2 ipm strai	n rate)			GEON	NET COMPC	NENT						
MD Max. St	rength (ppi)	62	72	60	62	54						62	6	
MD Elong.	@ Max. Strength (%)	34	30	35	36	33						33	2	

MD Machine Direction TD Transverse Direction

Page 17 of 25 The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentially. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010150 TRI Log #: 32447

GEOTEXTILE - SIDE A

												STD.	PROJ.
PARAMETER			2 JWRFK	4	E		7	•	0	10	MEAN	DEV.	SPEC.
Mass/Unit Area (ASTM D 5261)	I	2	3	4	5	0	,	0	7	10			
5" diameter Circle - Mass (g)	3.43	3.60	3.75	3.65	4.32	3.87	3.74	3.34	3.40	3.71	3.68	0.28	
Mass/Unit Area (oz/sq.yd)	7.98	8.37	8.72	8.49	10.05	9.00	8.70	7.77	7.91	8.63	8.56	0.66	8 min
Grab Tensile Properties (ASTM I	D 4632)												
MD - Tensile Strength (lbs)	315	240	239	277	234	269	279	292	254	304	270	28	220 min
TD - Tensile Strength (lbs)	291	237	305	284	317	275	333	261	315	346	296	34	220 min
MD - Elong. @ Max. Load (%)	84	79	87	82	89	79	77	85	80	85	83	4	50 min
TD - Elong. @ Max. Load (%)	109	89	105	96	111	114	97	95	100	111	103	8	50 min
CBR Puncture Strength (ASTM	D 6241)												
Puncture Resistance (lbs)	838	901	975	925	901	832	914	800	793	993	887	69	600 min
Apparent Opening Size (ASTM D) 4751)												
Opening Size Diameter (mm)	0.102	0.091	0.101	0.103	0.131						0.106	0.015	
Sieve No.	140	140	140	140	100						140]	80 min

MD Machine Direction TD Transverse Direction

TRI ENVIRONMENTAL, INC.

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010150 TRI Log #: 32447

GEOTEXTILE - SIDE B

PARAMETER	TEST REF	PLICATE NU	JMBER								MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	3.73	3.48	3.68	3.86	4.68	3.74	3.44	3.52	3.81	3.68	3.76	0.35	
Mass/Unit Area (oz/sq.yd)	8.68	8.09	8.56	8.98	10.89	8.70	8.00	8.19	8.86	8.56	8.75	0.82	8 min
Grab Tensile Properties (ASTM D) 4632)												
MD - Tensile Strength (lbs)	312	252	251	280	200	281	263	248	262	326	267	35	220 min
TD - Tensile Strength (lbs)	273	348	279	303	338	284	347	255	322	304	305	33	220 min
MD - Elong. @ Max. Load (%)	79	81	82	64	95	82	81	77	87	81	81	8	50 min
TD - Elong. @ Max. Load (%)	112	98	100	97	115	107	99	92	99	103	102	7	50 min
CBR Puncture Strength (ASTM D	D 6241)												
Puncture Resistance (lbs)	835	915	841	904	914	829	764	819	771	796	839	56	600 min
Apparent Opening Size (ASTM D	4751)												
Opening Size Diameter (mm)	0.090	0.075	0.071	0.090	0.136						0.092	0.026	
Sieve No.	140	200	200	140	100						140]	80 min
MD Machine Direction	TD Transv	erse Directio	on										

TRI ENVIRONMENTAL, INC. 9063 BEE CAVES RD. - AUSTIN, TX 78733 - USA | PH: 800.880.TEST OR 512.263.2101



Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010180 TRI Log #: 32447

												MEAN	STD.	PROJ.
PARAMEI	EK				-	F			0		10	MEAN	DEV.	SPEC.
Hydraulic 1	Fransmissivity (ASTM D 4	716)	2	3	4	Plat	e	,	8	9	10			
Direction Te	ested: Machine Direction	1		. =										
Normal Loa	id (pst): 10,000		In	tiow 🕁					Dutflow					
Tost Longth	(in) 12			_ X	XXXX	XXXX	XXXX	XXX_	\					
Tost Width	(in) 12			ĽΔ	<u>/yvv</u>									
Test Width	(11) 12	1			/									
Plate / Sam	ple / Plate			י פח	CC	Diat	•							
Seat Time				03		Fidi	e							
(hours)		Specimen		1			2							
	Volume (cc)		746	765	738	926	926	923						
	Time (s)		5.41	5.53	5.53	5.50	5.50	5.53						
0.25	Flow Rate (GPM/ft width	ו)	2.20	2.21	2.13	2.68	2.68	2.66				2.43	0.27	
0.20	Transmissivity (m^2/s)		4.56E-04	4.58E-04	4.41E-04	5.56E-04	5.56E-04	5.51E-04				5.03E-04	5.64E-05	1.00E-04 min
	Test Temp (C)			19.8			19.9							
	Temp. Corr. Factor			1.008			1.006							
Peel Streng	gth (ASTM D 7005)													
A - MD Ave	rage Peel Strength (ppi)	2 18	3 38	2 93	2 5 2	1 25						2.45	0.81	1 0 min
A - MD Ave	rage Peel Strength (g/in)	990	1535	1330	1144	568						1113	367	
	rage i oor ea ongar (grai)	,,,,	1000	1000		000							007	
B - MD Ave	rage Peel Strength (ppi)	2.30	0.35	1.25	2.41	1.58						1.58	0.84	1.0 min
B - MD Ave	rage Peel Strength (g/in)	1044	157	568	1094	717						716	382	
Note: A and	B represent a randomly a	ssigned top	o and bottom	of the samp	le									
Thickness	(ASTM D 5199)					GEON	NET COMPC	NENT						
Thickness ((mils)	229	234	229	228	227	233	227	229	229	229	229	2	200 min
												227	<< min	
Density (As	STM D 1505)					GEON	NET COMPC	NENT						
Density (a/a	cm3)	0.951	0.951	0.951								0.951	0.000	0.940 min
Carbon Bla	ick Content (ASTM D 421	8)				GEON	NET COMPC	NENT						
% Carbon E	Black	2.45	2.54									2.50	0.06	
Tensile Pro	operties (ASTM D 5035, 1	2 ipm strai	n rate)			GEON	NET COMPC	NENT						
MD Max. S	trength (ppi)	58	74	64	65	63						65	6	
MD Flong	@ May Strongth (0/)	24	25	25	25	25						25	1	
ND EIDING.	wax. Suenyun (70)	30	30	30	30	30							i	

MD Machine Direction TD Transverse Direction

TRI ENVIRONMENTAL, INC.

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010180 TRI Log #: 32447

GEOTEXTILE - SIDE A

PARAMETER	TEST RE	PLICATE NI	IMBER								MFAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			0. 20.
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.07	4.25	3.69	3.33	3.75	3.72	3.72	3.78	3.88	4.13	3.83	0.26	
Mass/Unit Area (oz/sq.yd)	9.47	9.89	8.58	7.75	8.72	8.65	8.65	8.79	9.02	9.61	8.91	0.61	8 min
Grab Tensile Properties (ASTM	D 4632)												
MD - Tensile Strength (lbs)	323	288	238	270	253	303	273	269	255	308	278	27	220 min
TD - Tensile Strength (lbs)	317	281	300	288	267	215	289	314	314	299	288	30	220 min
	68	82	71	74	67	70	74	80	75	75	74	5	50 min
TD - Elong. @ Max. Load (%)	103	97	86	90	95	97	93	91	88	95	94	5	50 min
CBR Puncture Strength (ASTM	D 6241)												
Puncture Resistance (lbs)	929	990	882	825	851	828	799	701	859	942	861	82	600 min
Apparent Opening Size (ASTM I	0 4751)												
Opening Size Diameter (mm)	0.075	0.075	0.102	0.090	0.104						0.089	0.014	
Sieve No.	200	200	140	140	140						140]	80 min
· · · · · · · · · · · · · · · · · · ·													

MD Machine Direction TD Transverse Direction

 TRI Environmental, Inc.

 9063 Bee Caves Ro. - Austin, TX 78733 - USA | PH: 800.880.TEST or 512.263.2101

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010180 TRI Log #: 32447

GEOTEXTILE - SIDE B

	TEST DE										MEAN	STD.	PROJ.
	1	2	3	4	5	6	7	8	9	10	MEAN	DLV.	JFLO.
Mass/Unit Area (ASTM D 5261)		-	•	•	•	•	-	•					
5" diameter Circle - Mass (g)	4.13	3.30	3.65	3.67	4.08	3.75	3.55	3.54	4.00	4.27	3.79	0.31	
Mass/Unit Area (oz/sq.yd)	9.61	7.68	8.49	8.54	9.49	8.72	8.26	8.23	9.30	9.93	8.82	0.72	8 min
Grab Tensile Properties (ASTM D	D 4632)												
MD - Tensile Strength (lbs)	293	271	216	240	310	339	236	206	244	282	263	43	220 min
TD - Tensile Strength (lbs)	240	288	260	307	315	282	252	325	307	294	287	28	220 min
MD - Elong. @ Max. Load (%)	73	76	71	71	80	73	80	75	75	70	74	4	50 min
TD - Elong. @ Max. Load (%)	97	95	82	95	96	100	89	92	87	103	94	6	50 min
CBR Puncture Strength (ASTM I	D 6241)												
Puncture Resistance (lbs)	876	802	790	792	912	767	877	882	776	939	841	62	600 min
Apparent Opening Size (ASTM D	4751)												
Opening Size Diameter (mm)	0.106	0.092	0.104	0.105	0.131						0.107	0.014	
Sieve No.	140	140	140	140	100						140]	80 min
MD Machine Direction	TD Transv	erse Directio	on										



Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010210 TRI Log #: 32447

													STD.	PROJ.
PARAMET	ER	TEST RE	PLICATE NU	JMBER								MEAN	DEV.	SPEC.
Hydraulic T	ransmissivity (ASTM D 4	1 716)	2	3	4	Plat	e	7	8	9	10			
Direction Te Normal Loa Hydraulic G Test Length Test Width	Action Direction d (psf): 10,000 radient: 1 i (in) 12 (in) 12		In 	flow	XXXX	XXXX	XXXX	XXX	Outflow ►					
Plate / Sam	ple / Plate			DS	GC	Plat	e							
Seat Time		Specimon		1			.•							
(nours) 0.25	Volume (cc) Time (s) Flow Rate (GPM/ft widtf Transmissivity (m^2/s) Test Temp (C) Temp. Corr. Factor	specimen	819 5.43 2.42 5.00E-04	1 818 5.50 2.38 4.93E-04 19.7 1.011	823 5.69 2.32 4.80E-04	623 5.52 1.81 3.74E-04	2 616 5.45 1.81 3.75E-04 19.7 1.011	616 5.50 1.79 3.71E-04				2.09 4.32E-04	0.31 6.47E-05	1.00E-04 min
Peel Streng	th (ASTM D 7005)													
A - MD Ave A - MD Ave	rage Peel Strength (ppi) rage Peel Strength (g/in)	2.35 1067	1.97 894	0.87 394	2.18 990	2.55 1158						1.98 901	0.66 299	1.0 min
B - MD Ave	rage Peel Strength (ppi)	1.52	3.45	0.92	0.89	0.36						1.43	1.20	1.0 min
B - MD Ave	rage Peel Strength (g/in)	690	1566	417	406	165						649	546	
Note: A and	B represent a randomly a	ssigned to	o and bottom	of the samp	le									
Thickness	(ASTM D 5199)					GEON	NET COMPC	NENT						
Thickness (mils)	235	233	231	231	231	236	234	229	229	233	232 229	2 << min	200 min
Density (AS	STM D 1505)					GEON	NET COMPC	NENT						
Density (g/c	:m3)	0.953	0.953	0.953								0.953	0.000	0.940 min
Carbon Bla	ck Content (ASTM D 421	8)				GEON	NET COMPC	NENT						
% Carbon E	Black	2.56	2.50									2.53	0.04	
Tensile Pro	perties (ASTM D 5035, 1	2 ipm strai	n rate)			GEON	NET COMPC	NENT						
MD Max. St	rength (ppi)	58	50	60	64	62						59	5	
MD Elong.	@ Max. Strength (%)	39	31	39	36	31						35	4	

MD Machine Direction TD Transverse Direction

TRI ENVIRONMENTAL, INC.

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010210 TRI Log #: 32447

GEOTEXTILE - SIDE A

	TEST DEI	DICATE NI	IMRED								MEAN	STD.	PROJ.
	1	2	3	4	5	6	7	8	9	10	1012/ UV	DLV.	01 20.
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.27	3.90	3.44	3.49	3.63	4.20	3.54	3.54	3.96	3.74	3.77	0.30	
Mass/Unit Area (oz/sq.yd)	9.93	9.07	8.00	8.12	8.44	9.77	8.23	8.23	9.21	8.70	8.77	0.69	8 min
Grab Tensile Properties (ASTM	D 4632)												
MD - Tensile Strength (lbs)	288	252	225	242	279	295	243	243	251	257	257	22	220 min
TD - Tensile Strength (lbs)	308	317	302	300	258	286	345	302	316	331	306	24	220 min
MD - Elong. @ Max. Load (%)	73	79	80	85	77	72	75	77	82	68	77	5	50 min
TD - Elong. @ Max. Load (%)	103	97	91	95	95	97	108	91	91	103	97	6	50 min
CBR Puncture Strength (ASTM	D 6241)												
Puncture Resistance (lbs)	965	812	820	769	824	832	858	782	751	839	825	59	600 min
Apparent Opening Size (ASTM D	0 4751)												
Opening Size Diameter (mm)	0.075	0.075	0.102	0.102	0.105						0.092	0.016	
Sieve No.	200	200	140	140	140						140]	80 min

MD Machine Direction TD Transverse Direction

TRI ENVIRONMENTAL, INC.

Material: Skaps TN220-2-8 Double Sided Geocomposite Sample Identification: 78291010210 TRI Log #: 32447

GEOTEXTILE - SIDE B

												STD.	PROJ.
PARAMETER	TEST REF	PLICATE NU	JMBER								MEAN	DEV.	SPEC.
	1	2	3	4	5	6	7	8	9	10			
Mass/Unit Area (ASTM D 5261)													
5" diameter Circle - Mass (g)	4.18	3.82	4.12	3.32	3.39	4.04	4.63	3.72	3.93	4.52	3.97	0.43	
Mass/Unit Area (oz/sq.yd)	9.72	8.89	9.58	7.72	7.89	9.40	10.77	8.65	9.14	10.51	9.23	1.00	8 min
Grab Tensile Properties (ASTM D	9 4632)												
MD - Tensile Strength (lbs)	314	267	286	252	276	286	271	212	211	296	267	34	220 min
TD - Tensile Strength (lbs)	233	277	263	290	316	308	323	302	272	279	286	27	220 min
MD - Elong. @ Max. Load (%)	77	82	79	73	75	69	78	75	73	75	76	4	50 min
TD - Elong. @ Max. Load (%)	100	93	91	91	94	85	97	88	92	107	94	6	50 min
CBR Puncture Strength (ASTM D	0 6241)												
Puncture Resistance (lbs)	950	730	710	853	930	905	966	879	782	901	861	91	600 min
Apparent Opening Size (ASTM D	4751)												
Opening Size Diameter (mm)	0.075	0.075	0.075	0.075	0.106						0.081	0.014	
Sieve No.	200	200	200	200	140						140]	80 min
MD Machine Direction	TD Transv	erse Directio	on										

TRI ENVIRONMENTAL, INC.



APPENDIX S LEACHATE COLLECTION SYSTEM MATERIAL TEST RESULTS



GEOTEXTILE



SKAPS Industries (Nonwoven Division) 335, Athena Drive Athens, GA 30601 (U.S.A.) Phone (706) 354-3700 Fax (706) 354-3737 E-mail: contact@skaps.com

Sales Office: Engineered Synthetic Product Inc. Phone: (770)564-1857 Fax: (770)564-1818

September 5, 2017 **Environmental Specialties Int'l, Inc** 7943 Pecue Lane, Suite A Baton Rouge, LA 70809 Ref : John W. Turk Power Plant PO:25801

Dear Sir/Madam:

This is to certify that SKAPS GE180 is a high quality needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, randomly networked to form a high strength dimensionally stable fabric.SKAPS GE180 resists ultraviolet deterioration, rotting, biological degradation. The fabric is inert to commonly encountered soil chemicals. Polypropylene is stable within a pH range of 2 to 13. SKAPS GE180 conforms to the property values listed below:

PROPERTY	TEST METHOD	UNITS	M.A.R.V. Minimum Average Roll Value
Weight	ASTM D 5261	oz/sy (g/m ²)	8.00 (271)
Grab Tensile	ASTM D 4632	lbs (kN)	220 (0.98)
Grab Elongation	ASTM D 4632	%	50
Trapezoidal Tear	ASTM D 4533	lbs (kN)	90 (0.40)
Puncture Resistance	ASTM D 4833	lbs (kN)	120 (0.53)
Permittivity*	ASTM D 4491	sec ⁻¹	1.30
AOS*	ASTM D 4751	US Sieve (mm)	80 (0.18)
UV Resistance	ASTM D 4355	%/hrs	70/500

Notes:

* At the time of manufacturing. Handling may change these properties.

KOUROSH SABZEVARI

QUALITY CONTROL MANAGER

www.skaps.com

www.espgeosynthetics.com

Product : GE180-180

ROLL #	WEIGHT	MD TENSILE	MD ELONG	XMD TENSILE	XMD ELONG	MD TRAP	XMD TRAP	PUNCTURE	AOS	PERMITTIVITY
ASTM METHOD	D5261	D4632	D4632	D4632	D4632	D4533	D4533	D4833	D4751	D4491
UNITS	oz/sq yd	lbs.	%	lbs	%	lbs.	lbs	lbs.	US Sieve	sec-1
TARGET	8.00	220	50	220	50	90	90	120	80	1.30
49001.1	8.14	226	66	231	75	95	107	133	80	1.38
49001.2	8.14	226	66	231	75	95	107	133	80	1.38
49001.3	8.14	226	66	231	75	95	107	133	80	1.38
49001.4	8.14	226	66	231	75	95	107	133	80	1.38
49001.5	8.52	231	70	242	80	95	107	133	80	1.38
49001.6	8.52	231	70	242	80	95	107	133	80	1.38
49001.7	8.52	231	70	242	80	95	107	133	80	1.38
49001.8	8.52	231	70	242	80	95	107	133	80	1.38
49001.9	8.52	231	70	242	80	95	107	133	80	1.38
49001.10	8.29	229	68	235	84	101	119	139	80	1.38
49001.11	8.29	229	68	235	84	101	119	139	80	1.38
49001.12	8.29	229	68	235	84	101	119	139	80	1.38
49001.13	8.29	229	68	235	84	101	119	139	80	1.38
49001.14	8.29	229	68	235	84	101	119	139	80	1.38
49001.15	8.44	234	72	244	76	101	119	139	80	1.38
49001.16	8.44	234	72	244	76	101	119	139	80	1.38
49001.17	8.44	234	72	244	76	101	119	139	80	1.38
49001.18	8.44	234	72	244	76	101	119	139	80	1.38
49001.19	8.44	234	72	244	76	101	119	139	80	1.38
49001.20	8.35	225	75	240	79	104	113	135	80	1.38
49001.21	8.35	225	75	240	79	104	113	135	80	1.38

Material: Skaps GE180 Nonwoven Geotextile Sample Identification: 49001.1 TRI Log #: 32210

PARAMETER	TEST RE	PLICATE N	NUMBER								MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Mass/Unit Area (ASTM D 5261)												
5" diameter circle (grams)	4.02	3.85	3.82	3.93	4.37	4.02	3.43	3.68	3.73	4.01	3.89	0.25
Mass/Unit Area (oz/sq.yd)	9.35	8.96	8.89	9.14	10.16	9.35	7.98	8.56	8.68	9.33	9.04	0.58
Grab Tensile Properties (ASTM D 4	632)											
MD - Tensile Strength (lbs)	263	239	253	220	345	303	314	266	251	347	280	45
TD - Tensile Strength (lbs)	243	329	297	281	327	260	292	266	278	308	288	28
MD - Elong. @ Max. Load (%)	66	74	79	67	83	73	99	74	69	79	76	10
TD - Elong. @ Max. Load (%)	104	112	99	93	117	104	114	89	94	112	104	10
CBR Puncture Strength (ASTM D 6	5241)											
Puncture Resistance (lbs)	970	869	885	859	1029	996	822	843	852	934	906	72
Apparent Opening Size (ASTM D 4	751, Method	B)										
Opening Size Diameter (mm)	0.165	0.146	0.124	0.154	0.143						0.146	0.015
Sieve No.	70	100	100	70	100						100	

MD Machine Direction

TD Transverse Direction

Page 2 of 3 The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.

Material: Skaps GE180 Nonwoven Geotextile Sample Identification: 49001.12 TRI Log #: 32210

PARAMETER	TEST RE	PLICATE N	UMBER								MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Mass/Unit Area (ASTM D 5261)												
5" diameter circle (grams)	4.01	3.94	4.00	3.98	4.29	4.26	4.10	3.80	3.84	4.33	4.06	0.19
Mass/Unit Area (oz/sq.yd)	9.33	9.16	9.30	9.26	9.98	9.91	9.54	8.84	8.93	10.07	9.43	0.43
Grab Tensile Properties (ASTM D	4632)											
MD - Tensile Strength (lbs)	308	303	274	260	337	292	300	260	296	325	296	26
TD - Tensile Strength (lbs)	273	357	276	338	366	248	308	336	306	373	318	43
MD - Elong. @ Max. Load (%)	71	91	77	80	77	67	99	81	80	84	81	9
TD - Elong. @ Max. Load (%)	100	143	94	104	148	95	107	109	86	123	111	21
CBR Puncture Strength (ASTM D	6241)											
Puncture Resistance (lbs)	859	826	956	1001	1031	990	948	1120	917	1040	969	87
Apparent Opening Size (ASTM D 4	751, Method	I B)										
Opening Size Diameter (mm)	0.166	0.149	0.131	0.158	0.157						0.152	0.013
Sieve No.	70	100	100	70	70						70	
Apparent Opening Size (ASTM D 4	751, Method	I A)										
Opening Size Diameter (mm)	0.094	0.092	0.075	0.088	0.105		RETEST				0.091	0.011
Sieve No.	140	140	140	140	140						140	

MD Machine Direction

TD Transverse Direction

Page 3 of 3 The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

TRI ENVIRONMENTAL, INC.



GRAVEL


A unit of American Electric Power

TABLE 4

LEACHATE COLLECTION SYSTEM GRAVEL TEST SUMMARY

SWEPCO - John W. Turk, Jr. Power Plant - Landfill Cell 2

Material ID	Calcium Carbonate (15% max)	Passing 1"	Passing 1/2"	Passing 3/8" (<5%)	Soil Class (GW or GP)	Permeability (>1.0 E-3 cm/sec)	Soil Description
G-1	0.3	100.0	0.9	0.1	GP	4.53E+01	Poorly Graded Gravel
G-2	-	96.0	11.0	2.0	GP	2.76E+01	Poorly Graded Gravel



Tested By: DR

Checked By: GS











PIPE PRESSURE TESTING

		PIPE TEST RECORD					
Project Tuck Coll	2		Job Numbe	er 3517	17127		
Tag No.	, 1L		Owner				
Description Cross Pi	ipe, South Ben	m	Data Sheet				
Sub System	•		Location	Fulton	. AR		
Sub System			Drawing				
Descriptor:			Date	4.18.24	018		
APPLICABLE DOCUMEN	ITS:						
1. PRETEST COMPLETIC)N	4	5 				
		Q Q	C INSPECTIC	DN		DATE	
Verity B17.01A is correc	ct and attached	/ lh. H	-L			4.18.2018	
Verity B17.01C is correc	ct and attached	The first of the second			4.18.2018		
Pressure Test Procedur	e approved	1 Matt	Matt L			4.18.2018	
Pre-Test Punch List com	nplete	That I				4.18.2018	
2. TEST DATA			· · · · · · · · · · · · · · · · · · ·				
Test Type	Test Medium/Temp	Pressure	Duration	Pressure (Gauge ID#	Pressure Gauge Range	
	101°F	8 psi	4 hrs			0-30	
Hydrostatic	NS						
Hydrostatic 3. LIMITING CONDITION			Chlorido Co	ntent of To	st Water:	N/A	
Hydrostatic 3. LIMITING CONDITION Stainless Steel Line(s):	Yes (No)		Chionae Co	intent of re			
Hydoshafir 3. LIMITING CONDITION Stainless Steel Line(s): Other:	Yes /No		Chionde CC	Sincent of Te			
Hydoslafiz 3. LIMITING CONDITION Stainless Steel Line(s): Other: 4. TEST ACCEPTED AND	Yes No	RATION	chionae co				
Hydoslafi 3. LIMITING CONDITION Stainless Steel Line(s): Other: 4. TEST ACCEPTED AND Test Supervisor: <u>Jhom</u>	Yes No RELEASED FOR RESTO	RATION		Date:4	+-18-18		
Hydoslatic 3. LIMITING CONDITION Stainless Steel Line(s): Other: 4. TEST ACCEPTED AND Test Supervisor: <u>Hom</u> QC:	Yes No RELEASED FOR RESTO mp. if lighten fit	RATION		Date: 4			
Hydroshahir 3. LIMITING CONDITION Stainless Steel Line(s): Other: 4. TEST ACCEPTED AND Test Supervisor: <u>Hom</u> QC: Owner:	Yes No RELEASED FOR RESTO mart light	RATION		Date: <u>4</u> Date: <u>4</u> Date: <u>4</u>			
Hydoshafir 3. LIMITING CONDITION Stainless Steel Line(s): Other: 4. TEST ACCEPTED AND Test Supervisor: <u>Jhom</u> QC: <u> </u>	Yes No RELEASED FOR RESTO mp & lighten fit	RATION		Date:4 Date:4 Date:4	- 18-18 1.18.18 1/13/19,		
Hydoshafir 3. LIMITING CONDITION Stainless Steel Line(s): Other: 4. TEST ACCEPTED AND Test Supervisor: <u>Hom</u> QC: <u></u> Owner: <u></u> Remarks:	Yes No	RATION		Date:4 Date:4 Date:4	+-18-18 1.18.18 1/13/18,		
Hydoshafir 3. LIMITING CONDITION Stainless Steel Line(s): Other: 4. TEST ACCEPTED AND Test Supervisor: <u>Hom</u> QC: <u></u> Owner: <u></u> Remarks: DESCRIPTION	Yes No ORELEASED FOR RESTO	RATION		Date:4 Date:4 Date:4	+-18-18 1.18.18 1/13/18,	QC/Eng.	
Hydoslafic 3. LIMITING CONDITION Stainless Steel Line(s): Other: 4. TEST ACCEPTED AND Test Supervisor: <u>Hom</u> QC: <u></u> Owner: <u></u> Remarks: DESCRIPTION Print Name	Yes No RELEASED FOR RESTO	RATION SU		Date:4 Date:4 Date:4	1-18-18 18.18 1/13/19, 1/13/19,	QC/Eng.	
Hydoshakir 3. LIMITING CONDITION Stainless Steel Line(s): Other: 4. TEST ACCEPTED AND Test Supervisor: <u>Jhom</u> QC: <u></u> Owner: <u></u> Owner: <u></u> Remarks: DESCRIPTION Print Name Signature	Yes No RELEASED FOR RESTO Market Cyber (1) Foreman N/A	RATION SU ThomAs	репптепае 	Date:4 Date:4 Date:4 Date:4 <u>Date:4</u>	- 18-18 1.18.18 1/13/18 1/13/18 1/13/18	QC/Eng.	

		PIPE TES	T RECORD			
Project Juck	Project Tuck Coll 2				77127	
Tag No.			Owner		1 1.0()	
Description Cross	Pipe North South Bec	m	Data Sheet			
Sub System			Location	Fulto	AP	
Sub System	e)		Drawing		- / //>	
Descriptor:			Date			
APPLICABLE DOCUMEN	NTS:	· · · · · ·				
4	÷ .					
1 PRETEST COMPLETIC	2N					
		, α	CINSPECTIC	DN		DATE
Verify B17.01A is corre	ect and attached	i li lit	-			4.18.2018
Verify B17.01C is corre	ct and attached		77			4.18.2018
Pressure Test Procedu	re approved		1		4.18.2018	
Pre-Test Punch List cor	mplete	4 THE			4.18.2018	
2. TEST DATA		(I'M)	7			
Test Type	Test Medium/Temp	Pressure	Duration	Pressure (Gauge ID#	Pressure Gauge Range
Progratic	119°F	8.25 ps;	2 min			0-30
3. LIMITING CONDITIO	NS					
Stainless Steel Line(s):	Yes / (NO)		IChloride Co	ontent of Te	st Water	Ν/Δ
Other:					st water.	
4. TEST ACCEPTED AND	ORELEASED FOR RESTO	RATION				
Test Supervisor: Aler	mary 2) Cashy tot	/		Date: 4	4-18-18	7
oc:	WH A		Date:/8/8			
Owner:	3			Date:	1/18/18	· · · · · ·
Remarks:				L	· · · · ·	
					147	
DESCRIPTION	Foreman	St	aperintende	nt		QC/Eng.
Print Name		Thorna	D Ach	I=T	Matt	41100
Signature		2han	ARI	A.F		A
Date	Date 4-18-19					(

		PIPE TEST	record	e.			
Project Tuck (ell 2		Job Numbe	er 3	5177127		
Tag No.	4		Owner	AE	ρ		
Description "Y"	Pipe, South Be	CIV.	Data Sheet			4	
Sub System			Location	Fult	on, AR		
Sub System			Drawing				
Descriptor:			Date	4,19	, 18		
APPLICABLE DOCUME	NTS:						
1. PRETEST COMPLETI	ON					DATE	
Verity B17.01A is corre	ect and attached	1				1/ 10/18	
Verify B17.01C is corre	ect and attached	Ahr	<u>M</u>			9.17.10	
Pressure Test Procedu	ire approved	1 h. IF	the the second s			<u> </u>	
Pre-Test Punch List co	mplete	1 Mart	I the the second			1. 19 16	
2. TEST DATA	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1/1 444 /	r			<i>, , , , , , , , , , , , , , , , , , , </i>	
Test Type	Test Medium/Temp	Pressure	Duration	Pressure (Gauge ID#	Pressure Gauge Rang	
Hy drostatic	55°F	14 pri	Yhrs			0-30	
3. LIMITING CONDITIC	DNS					.1	
Stainless Steel Line(s):	Yes/No)		Chloride Co	ontent of Te	st Water:	N/A	
Other:							
4. TEST ACCEPTED AN	D RELEASED FOR REST	ORATION					
Test Supervisor:	and Masu the	~ /		Date: 09-	19-20	28	
QC:	(InH	F	Date: 4.19,11			1	
Owner: G. /				Date:	-1/19/1	8	
Remarks:							
DESCRIPTION	Foreman	S	uperintende	ent	ir ut	QC/Eng.	
Print Name		Thomas	3 D. AS	SCIAFT	Maff.	Acoper	
Signature		Thomas	> A Cestra	P		X	
Date	Date 4-19-18				- 4.1	9.18	

.

	"	PIPE TEST	RECORD	2		
Project Fuck W	1 2		Job Numbe	er <u>357</u>	77127	
Tag No.			Owner	AEP		
Description 'Y'	Pipe, South Be	m	Data Sheet			
Sub System			Location	Fulton	, AR	
Sub System			Drawing			
Descriptor:			Date	4.19.	18	
APPLICABLE DOCUMEN	TS:		E			
1. PRETEST COMPLETIO	IN					DATE
Verity B17 01A is correc	ct and attached					
Verity B17.01A is correct	t and attached		4	4.19.18		
Pressure Test Procedur		1 Marty	4	9.19.18		9.18
Pre-Test Punch List com	nlete	Martin	47		4.19	. 18
		Matt	4		9, 13	<i>4</i> ,)•
		1				
Test Type	Test Medium/Temp	Pressure	Duration	Pressure	Gauge ID#	Pressure Gauge Range
Preumatic	49°F	8 p =i	2 min			0 - 30
3. LIMITING CONDITION	NS			•		
Stainless Steel Line(s):	Yes (No)		Chloride Co	ontent of Te	st Water:	N/A
Other:	****		•			
4. TEST ACCEPTED AND	RELEASED FOR RESTO	DRATION				
Test Supervisor: Do	i self Somety			Date: 0	4.19-	2018
QC:	MAA 8			Date:	4.19	18
Owner:				Date:	4/19/	18
U	0				117	
Remarks:						
DESCRIPTION	Foreman	Su	uperintende	ent		, QC/Eng.
Print Name		Thom	AS D.A.	shert	- Mar	H. Auru
Signature	Signature 26 and 90 Malt A					A
Date		4-1	9-18	1	.4.1	9.18
		· / ·	0			

			PIPE TEST				
Project Tuck Cell	2			Job Numbe	er 3517	7127	
Tag No.		12		Owner	AEP		
Description Manhols	Pipe, No	the Bern	n	Data Sheet			
Sub System				Location	Fulton 1-	IR	
Sub System			8-8	Drawing	/		
Descriptor:				Date			2
APPLICABLE DOCUMEN	NTS:						
· · ·							
1. PRETEST COMPLETIC	ON						
Varity B17 01A is come	at and attac	bad	1		JN		DATE
Verity B17.01A is corre	ct and attac	hed	1/21	t A		4	. 21.18
Processing Test Proceeding		ined	(MANT	- A	4.21.1		2/ 18
Pressure Test Procedul	re approved		Au the	A	9.21		21.18
Pre-Test Punch List cor	npiete		Malt 4		4.	4.21.59	
Z. TEST DATA						- 16	
Test Type	Test Medi	um/Temp	Pressure	Duration	Pressure	Gauge ID#	Pressure Gauge Range
Hydrostatic	66.	F	9.75 psi	4 hrs			0.30
3. LIMITING CONDITIO	NS						
Stainless Steel Line(s):	Yes/NO			Chloride Co	ontent of Te	st Water:	N/A
Other:	-				×		550 A. A
4. TEST ACCEPTED AND	O RELEASED	FOR RESTO	RATION	•			
Test Supervisor:					Date: Date: Date:	4.21.1 4.21.1 4/21/18	8
Remarks:							
DESCRIPTION	Eoro	man		Dennenne			OC/Eng
	гоге	IIIdII					
Print Name			Thomas	5 D. AS	herAFt	Matt	Heree
Signature			Thomas	2 D ask	ucht	(that	+ A
Date 4-2)-18				1-18		~ 4.2	1.18

		PIPE TEST RECORD					
Project Tuck (11 2		Job Numbe	er 351	77127		
Tag No.	11 ~ /		Owner	AEP	1 111		
Description lanhale	Kine March Ba	cm	Data Sheet				
Sub System	Tipe, Northe De		Location	Fulton	AR		
Sub System			Drawing	1 101101	////		
Descriptor:			Date				
APPLICABLE DOCUME	NTS:						
ĸ							
1. PRETEST COMPLETIC	ON		CINCLECTIC			DATE	
Vority D17 01A is as we	at and attached			ЛИ		DATE	
Verity B17.01A is corre	ect and attached	lat.	A			4.21.18	
Verify B17.01C is corre	ect and attached	Mutt.	A	(4.21,18	
Pressure Test Procedu	re approved	1 Matt	A,		4.21,18		
Pre-Test Punch List cor	mplete	1 Mat	A			21, 18	
2. TEST DATA							
Test Type	Test Medium/Temp	Pressure	Duration	Pressure (Gauge ID#	Pressure Gauge Range	
Preumatre	Cole F	8,5 psi	2 min			0-30	
3. LIMITING CONDITIO	NS						
Stainless Steel Line(s):	Yes /(No)		Chloride Co	ontent of Te	st Water:	N/A	
Other:		<i>y</i>					
4. TEST ACCEPTED ANI	D RELEASED FOR RESTO	DRATION					
Test Supervisor:	allen 1_	~		Date:	4 21	18	
00: 7	Malt A N		Date: // 2/ /8				
Owner:			Date: Q. [1] [2] [9]				
owner	5			Date	-7/01	10	
Remarks:							
						OC/Eng	
DESCRIPTION	Foreman	ian Superintendent QC/Eng.					
DESCRIPTION	Foreman	51		1		Klassa	
DESCRIPTION Print Name	Foreman	Thorna	5 D.A.S.	herarer	Matty 11	Agree	
DESCRIPTION Print Name Signature	Foreman	Thorna Thorna	25 D. A.5. 2 D ask	hcraft	half.	Accel	



APPENDIX T CONTRACTOR MATERIAL SUBMITTALS

Leachate Collection Pipe





PFF Drawing Form A (11 x 17)



Leachate Manhole

PETERSON MANHOLE SCHEDULE SHEET #_____

CUSTOMER NAME: <u>LUSCO</u> JOB NAME: <u>John W. Turk Jr. Power Plant Unit 1</u>

MARK: <u>L-JWT PR#1</u> INSTRUCTIONS: <u>External Bituminous Conting</u>, <u>Standard Ringt Course</u>



AVAILABLE WITH 24" ROUND HOLE CAST IN OR CASTING AS SPECIFIED BY CUSTOMER



SPECIFICATION

FLEXIBLE PIPE-TO-MANHOLE CONNECTOR

A flexible pipe-to-manhole connector shall be employed in the connection of the sanitary and drain sewer pipe to precast manholes.

The connector shall be Kor-N-Seal[®] as manufactured by NPC Inc., Milford, New Hampshire, or equal.

The connector shall be the sole element relied on to assure a flexible watertight seal of the pipe to the manhole. No adhesives or lubricants shall be employed in the installation of the connector into the manhole. The rubber for the connector shall comply with ASTM C443 and ASTM C923 and consist of EPDM and elastomers designed to be resistant to ozone, weather elements, chemicals, including acids, alkalis, animal and vegetable fats, oils and petroleum products from spills.

All stainless steel elements of the connector shall be totally non-magnetic Series 304 Stainless, excluding the worm screw for tightening the steel band around the pipe which shall be Series 305 Stainless. The worm screw for tightening the steel band shall be torqued by a break-away torque wrench available from the precast manhole supplier, and set for 60 - 70 inch/lbs.

The connector shall be installed in the manhole wall by activating the expanding mechanism in strict accordance with the recommendation of the connector manufacturer.

The connector shall be of a size specifically designed for the pipe material and size being utilized on the project.

Rubber seals used in concrete sewer pipe and culvert joints must meet the requirements given in ASTM Specification C923.





Elm Street, PO. Box 301, Milford, N.H. 03055, U.S.A. Telephone: (603) 673-8680

FORM SFC 10/87



KOR-N-SEAL[®] I & II

FLEXIBLE PIPE-TO-MANHOLE CONNECTORS

SPECIFICATION SHEET



KOR-N-SEAL I - WEDGE KORBAND CONNECTOR ASSEMBLY



Install Kor-N-Seal I - Wedge Korband With Socket Wrench & Torque Limiter



Install Kor-N-Seal II - Wedge Korband With Standard Torque Wrench



Install Pipe Clamp(s) With T-Handle Torque Wrench

NPC Inc. 250 Elm Street P.O. Box 301 Milford, N.H. 03055, U.S.A.

Tel: (603) 673-8680 (800) 626-2180 Fax: (603) 673-7271



Form SKNS 4/96



KOR-N-SEAL® | & ||

FLEXIBLE PIPE-TO-MANHOLE CONNECTORS

SPECIFICATION SHEET

PERFORMANCE

ASTM Method	Test Requirements	Kor-N-Seal®1/& I
C923 - 7.1	10 psi (23 ft) for 10 min.	+10 psi for 10 min.
C923 - 7.2.2	7° in any direction	Over 7° in any direction
C923 - 7.2.3	150 lbs/in. pipe dia.	Over 150 lbs/in. pipe dia.
	ASTM Method C923 - 7.1 C923 - 7.2.2 C923 - 7.2.3	ASTM Method Test Requirements C923 - 7.1 10 psi (23 ft) for 10 min. C923 - 7.2.2 7° in any direction C923 - 7.2.3 150 lbs/in. pipe dia.

Performed on all sizes of Kor-N-Seal® Connectors with no leakage occurring initially nor during the 24 hour test period.

RESILIENT EPDM OR POLYISOPRENE RUBBER Conforms to ASTM C923

Test	ASTM Method	Test Requirements	Kor-N-Seal® & II
Chemical Resistance	D543, at 22°C for 48 h		
1 N Sulfuric Acid		No weight loss	No weight loss
1 N Hydrochloric Acid		No weight loss	No weight loss
Tensile Strength	D412	1200 psi	1580 psi
Elongation at Break		350% min.	500%
Hardness	D2240 (shore A durometer)	\pm 5 from the manufacturer's specified hardness	48 ± 5
Accelerated Oven-aging	D573 70 \pm 1°C for 7 days	Decrease of 15%, max. of original tensile strength, decrease of 20% max. of elongation	10.1% tensile decrease 14.0% elongation decrease
Compression Set	D395, method B, at 70°C for 22 h	Decrease of 25%, max. of original deflection	13% decrease
Water Absorption	D471, immerse 0.75 by 2-in. specimen in distilled water at 70°C for 48 h	Increase of 10%, max. of original by weight	.8% increase
Ozone Resistance	D1171	Rating 0	Rating 0
Low-temperature Brittle Point	D746	No fracture at -40°C	No fracture at -40°C
Tear Resistance	D624, method B	200 lbf/in.	No tear at 210 lbf/in.
INTERNAL KORBAND			

Conforms to ASTM C923 and ASTM A167

Korband Assembly with toggle-type expander is manufactured of 304 series non-magnetic stainless steel. Korband Assembly with wedge-type expander is manufactured of 304 series non-magnetic stainless steel. The Kor-N-Seal[®] I wedge assembly is manufactured from reinforced nylon or 316SS Cast Steel.

EXTERNAL PIPE CLAMP Conforms to ASTM C923 and ASTM A167

External take-up clamps are manufactured of 304 series non-magnetic stainless steel. The bolt assembly is manufactured of 305 Series non-magnetic stainless steel.

www.npc.com 250 Elm Street • P.O. Box 301 Milford, NH 03055, U.S.A. Tel: 603-673-8680 • 800-626-2180 • Fax: 603-673-7271

BIDCO C-56 BUTYL MASTIC SEALANT

NPC's Bidco C-56 Preformed Butyl Mastic Sealant is custom engineered to meet the most exacting standards of the precast concrete industry.

C-56 remains flexible and forms a permanent bond to a wide variety of substrates including concrete, metals and plastics. Adhesion and cohesion at the time of installation are excellent and actually improve after the joint has been formed and placed into service.

This sealant is designed not to shrink, oxidize or harden and has excellent resistance to temperature extremes, acid and alkaline environments. It is also non-toxic.

Bidco C-56 bonds instantly to joint surfaces and to itself. Always butt ends of preformed sealant together – never overlap. Leave protective release paper on sealant during application and remove only after structure is ready for coupling.



NPC Bidco C-56 Meets or Exceeds:

- Federal Specifications SS-S-210 A "Sealing Compound, Preformed Plastic for Pipe Joints", Type 1, Rope Form
- AASHTO Designation M-198 75 I, Type B, Flexible Plastic Gasket (Bitumin)
- ASTM Designation C-990-91.

Prod	uct	Featu	Ires:

- Available in coil or strip form
- New, crush-proof packaging
- Non-stick, non-tear plastic backing

Primary Applications:

- Concrete Pipe
- Box Culverts
- Utility Vaults
- Burial Vaults
- Septic Tanks
- Wet Wells
- Sanitary & Storm Sewer Manoles
- Concrete Wall Panel Systems

ALSO AVAILABLE:

High-Grade Butyl Sealant,
Waterstop Hydrophylic Sealant,
Hydrocarbon Resistant Sealant
Call 800-626-2180 for more information.



Call today for more information: 800-442-0141

Available Standard Sizes*

COILS Linear Feet Pallet Size Width Cross Pieces Per Carton # Cartons/lbs. Per Carton Section & Length 45 ctns./24 lbs. 210 .5" x 21.0' oval 10 45 ctns./36 lbs. 145 .66 x .66 10 .75" x 14.5' 45 ctns./50 lbs. 116 8 1.0" x 14.5' .88 x .88 45 ctns./49 lbs. 1.25" x 14.5' .78 x 1.38 5 72.5 45 ctns./49 lbs. 5 50 1 1/8 x 1.5 1.5" x 10.0' 45 ctns./68 lbs. 40 2.0" x 10.0' 2.5 x 2 1/16 4 **STRIPS** Pallet Size Linear Feet Width Cross Pieces # Cartons/lbs. Section Per Carton Per Carton & Length 36 ctns./35 lbs. 125 .75" x 30" .478 x 1.0 50 36 ctns./37 lbs. 87 35 1.0 x 30" .58 x 1.6 36 ctns./71 lbs. 28 98 1.25 x 42" .5x2.5 36 ctns./75 lbs. 20 70 1.5 x 42" .75 x 2.5 45 36 ctns./61 lbs. .75 x 3.25 13 1.75 x 42" 36 ctns./65 lbs. 1.0 x 3.25 10 35 2.0" x 42" * Custom sizes also available



BUTYL MASTIC JOINT SEALANT

Technical Specifications

Chemical Composition	Specification	Requirements	NPC Sealant
Content of Hydrocarbon — % by weight Inert Material Filler — % by weight Volatile Matter — % by weight	ASTM D4-86 AASHTO T III ASTM D-6	50-70 30-50 2.0 max	56.0 44.0 below 1
Chemical Resistance (Total Immersion 30 days)			
5% Sulfuric Acid 5% Hydrochloric Acid 5% Potassium Hydroxide Saturated Hydrogen Sulfide Solution			No visible deterioration No visible deterioration No visible deterioration No visible deterioration
Physical Properties			
Specific Gravity — 77°F Ductility — 77°F Softening Point — °F Penetration — 77°F Accelerated Aging (mechanical oven 4 hours @ 212°	ASTM D-71 ASTM D-113 ASTM D-36 ASTM D-217 F)	1.2 – 1.35 5.0 min. 320 min. 50-120	1.27 10.0 380 85 Maintained 99+% of solids. Flexibility not affected.)
Elongation Initial — 77°F Two Weeks, Total Water Immersion Flow resistance (1° wide overhead joint exposed to 135 Storage Life Application Temperature Range Service Temperature Range	°F for 7 days)		300% min. 300% min. No Flow Indefinite 10° - 125°F -20°F - 200°F

Conforms to AASHTO M-1988 - SS-S-210A - ASTM C990

www.npc.com

250 Elm Street • P.O. Box 301 Milford, NH 03055, U.S.A. Tel: 603-673-8680 • 800-626-2180 • Fax: 603-673-7271



Tylox® SuperSeal™ Pre-Lubricated Gasket

make the connection

Say *Goodbye* to the lube bucket and brush Say *Hello* to fast, clean, simple installation

Requiring no field lubrication, the 'Tylox[®] SuperSeal[™] gasket^{*} has a layer of silcone lubricant installed on the inner surface of the tube during the manufacturing process; saving you time, and money, on the job-site.

Self-contained Lubricant. Sealed within the tube, the lube is impervious to mud, dirt and debris. If you drop it in the trench, simply wipe the gasket surface clean and you're ready to install. No special handling or packaging is required.

Easier installation, without equalization, is made possible due to the reduced gasket stretch required by the unique lamell/rolling tube design. Quick and easy to install means you save even more time.

No gasket "roll" or "twist" during coupling is another benefit of the unique lamell/rolling tube design, which reduces the insertion force required. Manual coupling of up to 36" pipe is possible.



Self-Centering of the Spigot within the Bell is carried out as the tube rolls into the annular space during the homing process.

Elimination of Joint Kick Back, is caused by the rearward locking action of the serrations as the tube rolls forward

Bell and Spigot protection under deflection is accomplished by the cushioning effect of the tube, as it rests within the annular space. ASTM C443, ASTM C361, AASHTO M198.4 and CSA A-257 material requirement compliance.

Pipe sizes to 144" can be accommodated.

INSTALLATION

Ensure Bell, Spigot and Gasket are free from loose debris or foreign material.

Stretch the gasket around the spigot, with the nose against the step, and the tube laying flat against the spigot. DO NOT LUBRICATE.



Align the spigot with the bell, and thrust the spigot home using suitable mechanical means. The homing process will cause the lubricated tube to "roll" over itself, above the compression section, allowing the pipe to slide forward.



Once fully homed, the compression section seals the total annular space; the rolling tube comes to rest within the small annular space - acting as a cushion against side loads, and the serrations act to resist pipe pull-out.



*Tylox SuperSeal Gaskets are patented under US Patent 4934716

MATERIALS

Tylox[°] SuperSeal[™] gaskets^{*} are available in the following materials:

•Isoprene Optional Materials

•Nitrile (Oil Resistant)

•Isoprene / EPDM blend

(Ozone Resistant)

•Neoprene (Oil and Ozone Resistant)

Other materials may be available as special order.

Consult your Hamilton Kent agent for your specific requirements.

SPECIFICATIONS

Tylox[®] SuperSeal[™] gaskets^{*} are manufactured to meet the material requirements of the following specifications:

> •ASTM C361 •ASTM C443 •AASHTO M198.4 •CSA A257 •"Green Book"

Other specifications may be available as special order. Please consult your Hamilton Kent agent for your specific requirements.

CONTACT US

Hamilton Kent

77, Carlingview Drive Toronto, Ontario, Canada. M9W 5J6

Phone (800) 268-8479 Fax (888) 674-6960

Web-Site www.hamiltonkent.com E-Mail sales@hamiltonkent.com

Lit_TSS_0306_ER2

LANE INTERNATIONAL TECH SHEET

EZ LIFT PINS





Load Capacity: The working load limit is 7,500 lbs. per pin*

* Ultimate load is four times the working load.

Pin Composition:

Each pin is injection molded polypropylene around a 1" diameter ASTM A-615 Grade 60 reinforcing bar. The polypropylene material conforms to ASTM D-4101 specifications.





P.O. Box 925 * TUALATIN, OR 97062 * 800-666-0076 * FAX: 503-684-0078 * LANEINTERNATIONAL.COM



-



Exterior Coating

NO. 720

CSI Code: 07 11 13

DECEMBER 2008 (Supersedes April 2004)

W. R. MEADOWS.

SEALMASTIC_{IM} Solvent

Dampproofing

DESCRIPTION

SEALMASTIC solvent-type dampproofing is an asbestos-free, fibered and non-fibered asphalt compound. Both the brush-on and trowel-applied versions are flexible and will span small holes and hairline cracks. All three grades withstand temperature changes and will not crack under normal expansion and contraction. The three types offered are SPRAY-MASTICTM, a non-fibered asphalt compound for use where spray application is desired; SEMI-MASTICTM, a brush or spray-on fibered asphalt compound designed to protect exterior below-grade masomy walls; and TROWEL-MASTICTM, a trowel-applied, heavy-bodied, fibered asphalt compound for exterior, below-grade masonry wall surface applications. It is recommended to protect porous or irregular surfaces.

USES

SEALMASTIC solvent-type dampproofing is ideal for reducing dampness and moisture infiltration through foundation walls, parapets, firewalls, tanks, culverts, cisterns, and bridge abutments. It is also applicable for stone backing, above-grade cavity wall applications and below-grade masonry wall dampproofing. The SEALMASTIC product line also helps to minimize internal structural damage from mildew and mold.

PACKAGING

5 Gallon (18.93 Liter) Pails 55 Gallon (208.20 Liter) Drums

SPECIFICATIONS

SPRAY-MASTIC	ASTM D 4479, Type 1
SEMI-MASTIC	ASTM D 4479, Type 1
TROWEL-MASTIC	ASTM D 4586, Type 1
All products comply wit	h U.S. EPA VOC content
requirement.	

FEATURES/BENEFITS

- · Ready to use ... no heating or thinning required.
- Dries rapidly ... fast and economical way to protect concrete and masonry foundation walls from moisture penetration.
- · Easy to apply ... no special equipment needed.
- Available in spray-, brush-, and trowel-grades ... meets a broad range of applications for maximum versatility.
- VOC compliant ... meets the U.S. EPA Architectural Coatings Rule requirements

COVERAGE*

SPRAY-MASTIC

As a primer (two-coat system): Approximately 70-100 ft.²/gal. (1.71 to 2.45 m²/L)

Exterior Below-Grade Dense Surfaces, Exterior Below-Grade Porous Surfaces, Interior Above-Grade Surfaces:

(One coat, 1/16" wet film thickness): Approximately 20-25 \hat{n} .²/gal. (0.5 to 0.6 m²/L)

(One coat, 1/8" wet film thickness): Approximately 10-12.5 ft.²/gal. (0.25 to 0.3 m²/L)

SEMI-MASTIC & TROWEL-MASTIC

Exterior Below-Grade Dense Surfaces, Exterior Below-Grade Porous Surfaces, Interior Above-Grade Surfaces:

(One-coat, $^{1/16^{\circ}}$ wet film thickness): Approximately 20-25 ft. 2 /gal. (0.5 to 0.6 m²/L).

(One-coat, ¹/8" wet film thickness): Approximately 10-12.5 ft. 'gal. (0.25 to 0.3 m'/L)

*Coverage may vary due to porosity and condition of concrete.

LEED INFORMATION

May help contribute to LEED credits:

- EQ Credit 3.1: Construction IAQ Management Plan: During Construction
- MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally

CONTINUED ON REVERSE SIDE ...

W. R. MEADOWS, INC. P.O. Box 338 - HAMPSHIRE, IL 60140-0338 Phone: 847/214-2100 - Fax: 847/683-4544 1-800-342-5976 www.wmmeadows.com

HAMPSHIRE, IL / CARTERSVILLE, GA / YORK, PA FORT WORTH, TX / BENICIA, CA / POMONA, CA GOODYEAR, AZ / MILTON, ON / ST. ALBERT, AB

Exterior Coating

PAGE 2 ... SEALMASTIC Solvent #720 ... DECEMBER 2008

APPLICATION

Surface Preparation ... All surfaces to be coated must be thoroughly cleaned of all scale, loose mortar, dust, rust, dirt, oil, grease, and other foreign matter. Use a wire brush, sandblast, or other methods in keeping with good construction practices. Before product application, fill voids, cracks, and holes in concrete with cement mortar and allow to dry. If primer is required, use SEALMASTIC SPRAY-MASTIC. Do not apply when temperatures below 35° F (2° C) are anticipated. Do not apply in rain or when rain is threatening.

MIXING ... SEMI-MASTIC and SPRAY-MASTIC should be thoroughly stirred in their respective containers prior to application. TROWEL-MASTIC can be applied directly from the container.

EXTERIOR BELOW-GRADE DENSE SURFACES

Apply SEMI-MASTIC (brush- or spray-grade) and SPRAY-MASTIC (spraygrade) by soft bristle brush or suitable spray equipment* or TROWEL-MASTIC by trowel.

Dampproofing should be applied to properly prepared surfaces in a continuous, unbroken film, free of pinholes, filling and spreading around all joints, slots and grooves and penetrating into all crevices, chases, reveals, soffits, and corners. Carry coating over the exposed footing's top and outside edge up to finished grade.

NOTE: Fillers, extenders, and additives in concrete mixes can produce a higher than normal porosity and as a result, additional coverage coats may be required.

*Consult spray equipment manufacturer for instructions

EXTERIOR BELOW-GRADE POROUS SURFACES (3 OPTIONS)

 MEMBRANE SYSTEM: For severe conditions or for added protection, apply one coat of TROWEL-MASTIC, SEMI-MASTIC, or SPRAY-MASTIC on porous surfaces, such as block, according to dense surface application. Within four hours, apply a glass fabric membrane cloth over all coating surfaces. Overlap all edges by 3" (76 mm) minimum. Press firmly into place without wrinkles. Application of the second coat of TROWEL-MASTIC, SEMI-MASTIC, or SPRAY-MASTIC should be within 24 hours.

2. TWO-COAT SYSTEM: Apply SEALMASTIC SPRAY-MASTIC as a prime coat. Allow coat to dry tacky to touch and then apply TROWEL-MASTIC in one coat, as described under dense surface application.

3. PARGE-COAT SYSTEM: Before

application of SEALMASTIC, apply a heavy parge-coat of cement mortar for surface preparation. The coat should cover the bottom of the footings to grade level, forming a cove at the junction of the wall and footing. Once the pargecoat cures, apply two brush or spray coats of SEMI-MASTIC or SPRAY-MASTIC, or one coat of TROWEL-MASTIC, as described under dense surface application.

BACKFILLING

Backfilling should be done within 24 to 48 hours after application. No longer than seven days maximum should elapse. Be careful not to damage or rupture the film or displace coating or membranes. To assure maximum protection, PROTECTION COURSE from W. R. MEADOWS should be used. Prolonged exposure to ultraviolet sunrays should be minimized.

INTERIOR ABOVE-GRADE

SURFACES - VAPOR RETARDER TROWEL-MASTIC, SEMI-MASTIC, and SPRAY-MASTIC can be used individually or in combination for dampproofing the exterior face of interior walls in cavity wall construction.

CLEANUP ... While still wet, material may be removed with soap and water. Once dried, the material can be removed with kerosene or petroleum naptha. Solvent manufacturer precautions should be adhered to when using a solvent for cleanup.

PRECAUTIONS

Handle as a combustible product. Read and follow application information and precautions. Refer to Material Safety Data Sheet for complete health and safety information.

For most current data sheet, further LEED information, and MSDS, visit www.wrmeadows.com.



LIMITED WARRANTY

"W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order." Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection

with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

© W.R. MEADOWS 2002

12/08-4M



Carboline Bitumastic carboline 300M Coal Tar Epoxy Coating

Bitumastics | Bitumastic 300M | Bitumastic 50 | Super Service Black | Carboguard A-788

Selection & Specification Data

Generic	Coal Tar Epoxy	
Description	Renowned high build coal tar epoxy for protection for steel and concrete in single or two-coat applications in a broad variety of aggressive industrial applications.	
Features	Excellent chemical, corrosion and abrasion resistance High-build up to 35 mils (875 microns) in a single coat Compatible with controlled cathodic protection Meets or exceeds all requirements of: - Corp of Engineers C-200, C200a - AVWA C-210-92 for exterior - SSPC-Paint 16 - Steel Tank Institute Corrosion Control System STI-P ₃	
Color	Black (C900)	
Finish	Will discolor, chalk and lose gloss in sunlight exposure.	
Primers	Self-priming, Carboguard 888	
Topcoats	Not recommended	
Dry Film Thickness	16.0 mils (400 microns) in one or two coats. Total dry film thickness less than 8 mils (200 microns) or in excess of 35 mils (875 microns) not recommended.	
Solids Content	By Volume: 74% ± 2%	
Theoretical Coverage Rate	1187 mil ft ² (29.1 m ² /l at 25 microns). Allow for loss in mixing and application.	
Nominal VOC Values	As supplied: 2.0 lbs/gal (192 g/l) Thinned: 20 oz/gal w/ #10: 2.6 lbs/gal (307 g/l) Thinned: 25 oz/gal w/ #10: 2.7 lbs/gal (325 g/l)	
Dry Temperature Resistance	Continuous: 350°F (177°C) Non-Continuous: 370°F (190°C)	
Wet Temperature Resistance	Immersion temperature should not exceed 120°F (49°C).	
Limitations	Do not use for potable water requirements.	

Substrates & Surface Preparation

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Steel	Immersion: SSPC-SP10. Non-Immersion: SSPC-SP6 for maximum protection. SSPC-SP2 or SP3 as minimum requirement. Surface Profile: 2.0-3.0 mils (50-75 micron).
Concrete	Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing.

Performance Data

Test Method	System	Results	Report #
ASTM D4060	Blasted Steel	130 mg. loss after 1000 cycles. CS 17 wheel,	02877
Abrasion	2 cts. 300M	1000 gm load.	
ASTM D4541 Adhesion	Blasted Steel 2 cts. 300M	1443 psi (pneumatic)	02877
ASTM D2794	Blasted Steel	Impact site diameter. Inches: 3/8, 3/8, 1/2.	02877
Impact	2 cts. 300M	100 in/Ibs Gardner Impactor at 1/2 in. diam.	
ASTM B117	Blasted Steel	No blistering, rusting or delamination. No mea-	02938
Salt Fog	2 cts. 300M	surable undercutting at scribe after 2000 hrs.	

Application Equipment

Spray Application (General)	This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.	
Conventional Spray	Pressure pot equipped with dual regulators, 3/8" LD. minimum material hose, with 50' maximum material hose .086" LD. fluid tip and appropriate air cap.	
Airless Spray	Pump Ratio: 30:1 GPM Output: 3.0 (min.) Material Hose: 1/2" ID. (min.) Tip Size: 023035" Output PSI: 2300-2500 Filter Size: 30 mesh Teflon packings are recommended and available from the pump manufacturer.	
Brush & Roller (General)	Recommended for touch up, striping of weld seams (General) and hard-to-coat areas only. Avoid excessive rebrushing or re-rolling	
Brush	Use a medium bristle brush.	
Roller	Use a short-nap synthetic roller cover with phenolic core.	



APPENDIX U PROJECT PHOTOGRAPHIC LOG





Looking north at proof-rolling subgrade.



Looking at proof-roll results.





Looking northeast at hauling operation of subgrade.



Haulers transporting structural fill material.




Looking south at excavators cutting structural fill material and loading into haulers to be transported.



Looking east at dozer spreading subgrade material to bring to elevation.





Looking northeast at Excavators cutting overburden and loading into haulers to be used as structural fill.



Looking south at Excavator cutting overburden and loading into hauler.





Looking south at sheep's foot compacting subgrade.



Looking southeast at grading, moisture conditioning and compacting clay liner.





Looking southeast at smooth drum roller left in place after creating density testing pads following clay liner placement.



Looking southeast at ponded material outside beginnings of west berm after a heavy rain.





Pipe after cutting cleanout to reduce top elevation.



Pipe cap after welding and backfilling around cleanout.





Bentonite placement over cap before concrete cover.



Looking east at dozer grading cell floor before placement of clay liner material.





Looking east at west berm after smooth drum sealed it to prevent moisture infiltration.



Looking southeast at smooth drum sealing west berm before expected rain.





Looking east at excavators moving south leachate line to place in berm.



Looking south at placement of the south leachate line.





Looking at north manhole in place in north berm.



Looking north at excavators placing north leachate line in north berm.





Looking east at manhole in north berm after placing material above leachate line.



Looking south at completed clay liner and geomembrane being staged prior to deployment.





Looking east at cutting the south geosynthetics anchor trench.



Looking south at exposing the geosynthetics tie in on the east berm.





Looking southwest at smooth rolling subgrade in preparation for geomembrane deployment.



Looking east at deployed and seamed geomembrane on the south slope.



SWEPCO - JWTJPP - Class 3N Landfill Photo Log - Cell 2 Project No. 35177127 - December 2018



Looking east at cleaning and fusion welding geomembrane seam.



Looking at air pressure test on fusion seam.



SWEPCO - JWTJPP - Class 3N Landfill Photo Log - Cell 2 Project No. 35177127 - December 2018



Looking at extrusion seaming preparation and welding gemembrane repair.



Looking south at completed geomembrane deployment and partial deployment of geocomposite.





Looking at south leachate line penetration at south berm.



Looking east at ESI deploying geocomposite on north berm.





Looking southwest at deployment of geocomposite on west slope.



Zip-ties used to connect geonet between geocomposite panels.





Looking at sewing the geotextile layer of the geocomposite.



Looking southwest at skidsteer backfilling south geosynthetics anchor trench





Looking west moisture conditioning anchor trench material prior to compaction.



Compacting south geosynthetics anchor trench.





Looking west at drum compacting north geosynthetics anchor trench.



Looking northeast at dozer beginning to spread protective cover material into cell floor.





Looking south at placement of protective cover material. Also shown is plywood placed for protection of geosynthetics for future chimney drain and leachate line trench excavation.



Looking south at excavator cutting protective cover for leachate lines.





Looking south at placement of geotextile in leachate trench.



Looking at placement of gravel in leachate trench, and surveyor verifying gravel thickness.





Looking east at north leachate line connections.



Looking southwest at leachate lines and gravel covered by geotextile.





Looking north at completed protective cover layer.



APPENDIX V UPDATED DRAWINGS









APPENDIX W GROUNDWATER SEPARATION

TABLE 1
SWEPCO - JOHN W. TURK, JR. POWER PLANT
CLASS 3N LANDFILL
MONITORING WELL DATA
POTENTIOMETRIC GROUNDWATER ELEVATIONS (FMSL)

Well	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9D	MW-10	MW-11	TEST PIT 1	TEST PIT 2
Date													
9/20/2011	284.28	264.25	266.16	273.23	273.26	261.26	270.28	<261.23	251.67	<262.99	-	-	-
12/30/2011	294.89	267.24	265.19	273.16	278.16	270.17	272.10	280.34	254.14	272.41	-	-	-
2/28/2012	295.83	267.40	269.42	272.69	278.33	271.15	272.41	279.96	254.54	274.22	-	-	-
5/17/2012	295.27	267.59	269.65	272.62	277.92	271.96	272.94	278.48	254.47	276.64	-	-	-
8/8/2012	293.35	267.64	269.64	272.51	275.16	271.78	271.46	275.80	252.43	276.89	-	-	-
11/7/2012	292.20	267.72	269.59	272.44	272.90	270.85	271.53	279.69	253.02	275.49	-	-	-
2/28/2013	294.29	267.94	270.03	272.32	278.71	272.53	272.77	280.87	253.93	278.06	-	-	-
5/20/2013	294.37	268.11	270.28	273.27	278.36	272.76	273.37	280.44	255.10	276.59	-	-	-
8/6/2013	293.69	267.99	270.68	273.31	278.35	273.03	272.89	279.61	253.71	277.66	-	-	-
11/4/2013	298.59	271.85	270.50	273.63	279.94	273.59	273.07	280.23	253.54	278.40	-	-	-
2/10/2014	296.87	268.35	270.65	275.18	279.81	274.90	273.79	281.08	254.15	278.94	-	-	-
5/5/2014	296.76	268.56	271.07	276.06	278.96	274.63	273.70	279.02	255.96	279.88	-	-	-
8/5/2014	297.03	272.81	276.01	276.03	279.77	277.85	274.02	280.09	254.21	278.59	-	-	-
11/5/2014	295.99	268.82	271.78	275.88	278.99	275.91	273.30	279.07	254.44	279.86	-	-	-
2/3/2015	298.75	272.90	286.87	276.30	279.89	278.41	274.00	280.64	253.31	280.42	-	-	-
5/5/2015	296.47	275.43	275.97	276.93	280.17	277.74	274.32	279.80	252.04	277.62	-	-	-
8/19/2015	295.02	270.66	274.04	277.45	277.96	273.69	272.99	277.97	252.65	280.05	-	-	-
11/18/2015	297.20	295.53	288.05	276.84	280.71	277.66	273.82	280.73	254.36	279.13	-	-	-
3/23/2016	297.35	281.27	282.69	277.92	280.25	277.87	274.09	279.08	256.98	280.60	-	-	-
4/26/2016	296.72	281.44	282.40	278.08	280.25	277.61	273.74	-	257.37	271.37	283.83	-	-
6/1/2016	297.05	295.85	277.73	277.82	280.65	278.54	275.55	280.53	256.66	275.00	273.38	-	-
7/25/2016	295.36	271.35	274.86	277.94	278.80	272.60	272.98	278.10	253.79	278.28	283.98	-	-
9/1/2016	296.65	274.41	275.22	277.94	279.84	276.52	273.50	278.94	253.87	278.23	284.00	-	-
11/2/2016	295.25	270.46	274.89	277.36	278.05	272.64	270.92	275.45	251.66	278.56	282.89	-	-
12/15/2016	295.66	274.02	275.51	276.93	279.89	277.85	272.83	277.86	251.29	277.41	283.09	-	-
2/1/2017	297.70	280.52	279.38	277.58	280.80	278.05	273.37	278.98	250.80	276.61	283.52	-	-
2/21/2017	297.37	290.69	278.94	277.45	279.83	278.37	275.10	280.43	251.21	272.19	284.37	-	-
5/2/2017	298.22	295.59	277.61	277.73	281.21	278.30	274.25	279.56	252.52	277.81	284.26	-	-
6/29/2017	296.55	271.91	275.67	277.88	279.53	274.22	273.43	277.22	253.18	278.98	283.71	-	-
7/19/2017	296.75	272.91	275.62	277.78	280.18	274.56	273.54	278.22	252.34	274.43	283.89	-	-
8/10/2017	296.68	294.59	276.42	277.83	281.63	275.16	273.93	279.36	252.54	273.95	284.19	-	-
12/6/2017	296.80	271.87	275.93	277.24	277.47	272.94	272.99	274.90	249.81	279.32	282.11	-	-
4/26/2018	297.49	279.79	277.67	278.26	279.91	278.37	273.82	278.75	252.94	280.39	281.89	-	-
6/13/2018	-	-	-	-	-	-	-	-	-	-	-	276.00	271.36
Seasonal High	298.75	295.85	288.05	278.26	281.63	278.54	275.55	281.08	257.37	280.60	284.37	276.00	271.36

Note:

1. MW-9D is in the lower aquifer.

2. Test Pit 1 Location: N-35,715.86 E-29,795.62 el.276.00

3. Test Pit 2 Location: N-34,269.16 E-29,066.44 el.271.36











PROFILE - B-B'



FIGURE 2	DESIGNED BY: TLB	DRAWN BY: TLB	APPVD.BY: DCM	SCALE: SEE BARSCALE	DATE: 11/07/2018	JOB NO. 216-002-35177127	ACAD NO. 602		
CROSS SECTIONS		CELL 2 CCR COA REPORT				דוא ום סזואוסם סו צומו ד וא וארוסו	JUDIN VV. LURN, JR. FUVVER FLAINT		
					Consulting Engineers and Scientists		25809 I-30 SOUTH BRYANI, AR 72022	PH. (501) 847-9292 FAX. (501) 847-9210	
DESCRIPTION									
REV. DATE BY									



NOTE:

POTENTIOMETRIC SURFACE DEPICTED ON THIS DRAWING WAS DERIVED FROM THE HIGHEST ELEVATION RECORDED DURING SAMPLING EVENTS CONDUCTED BETWEEN 9-20-2011 AND 4-26-2017. (SEE TABLE 1)