

**Notice of Intent to Initiate Closure
of the Inactive Surface Impoundment Pond 1**

**Appalachian Power Company
Clinch River Power Plant
Cleveland, Virginia**

September 2015

**Prepared for:
Clinch River Power Plant
3464 Power Plant Road
Cleveland, VA 24225**

**Prepared by:
American Electric Power
1 Riverside Plaza
Columbus, Ohio 43215**



A unit of American Electric Power

1. Purpose

To provide notification of the intent to initiate closure of the inactive surface impoundment Pond 1 (pond) at the Clinch River Power Plant, describe the cover and to complete the closure no later than April 17, 2018.

2. Closure Process of the Inactive Surface Impoundment Pond 1

Appalachian Power Company (APCO) will close the Inactive Surface Impoundment in accordance with 40 CFR 257.100(b)(1) by closing the CCR unit in place. The pond closure plan addresses surface water run-off flows and slope stability to prevent the sloughing or movement of the final cover system. The pond closure will begin by dewatering the CCR within the pond and stabilizing the waste to support the final cover system satisfying requirements (b)(2)(i) and (ii) of the rule. The final cover system is designed to minimize infiltration and erosion by having a permeability value of no greater than 1×10^{-5} centimeters/second. The cover system will consist of, from base to surface, a 30-mil PVC geomembrane, a geocomposite drainage net, with a minimum transmissivity of 5×10^{-4} m²/s, consisting of a bottom and top 8 oz/yd², 250-mil textile with a geonet within the two textiles, an infiltration layer of 18 inches of earthen material and an erosion layer of 6 inches of earthen material that is capable of sustaining growth satisfying requirements of 257.100(b)(3)(ii) of the rule. Following the installation of the cover system, it will be determined if the erosion layer will require any amendments and a grass seed mix will be selected which requires minimum efforts to sustain and maintain.

3. Closure Construction Schedule of Pond 1 (Pond will be closed in two phases: 1a & 1b)

Dewatering – 1a & 1b: 2/1/16 – 4/1/16

Grading and Compaction – 1a: 5/1/16 – 8/1/16; 1b: 5/1/17 – 8/1/17

Final Cover System Placement – 1a: 8/1/16 – 11/1/16; 1b: 8/1/17 – 11/1/17

Soil Amendment/Seed – 1a: 11/15/16; 1b: 11/15/17

4. PE Certification

The following PE Certification is certifying that the design of the final cover system meets the requirements of 40 CFR 257.100(b)(3)(ii) and that the closure in place, 40 CFR 257.100(b)(1) through (4), of the inactive surface impoundment is technically feasible to be completed by April 17, 2018.

THOMAS E. WEBB

Printed Name of Professional Engineer

Thomas E. Webb

Signature

18855

Registration No.

VA

Registration State

09.09.15

Date

