

## **Closure Completion Notification for Closure by Removal**

September 26, 2024

Closure Completion Notification

John E. Amos Plant

Bottom Ash Pond Complex

On September 4, 2024, the John E. Amos Plant Bottom Ash Pond Complex was transitioned to closure status in accordance with 40 CFR 257.102. This notice of completion of closure is being placed in the operating record in accordance with 40 CFR 257.102(h).

Effective with the Closure Completion Notification, the former ash storage site is no longer a CCR unit. The following operating record documents are no longer required going forward:

- Hazard Potential Classification
- Emergency Action Plan
- Face to Face Meeting Documentation for EAP
- History of Construction and Revisions for Surface Impoundments
- Structural Stability Assessments
- Safety Factor Assessments
- Fugitive Dust Plan
- Inflow Design Flood System Control Plan

Appalachian Power Company  
**John E. Amos Plant**

Coal Combustion Residuals  
Fugitive Dust Control Plan



Prepared By:  
**Appalachian Power Company**  
**John E. Amos Plant**  
1530 Route 817  
Winfield, WV 25213

and

**American Electric Power Service Corporation**  
**Environmental Services**  
1 Riverside Plaza  
Columbus, Ohio 43215

Original – September 2015  
Revision 5 - October 2024

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**Appendices**

**Appendix A – 40 CFR Part 257.80 Air Criteria (Fed. Reg. April 17, 2015)**

**Appendix B – Site Map for Plant and Landfill**

**Appendix C – Plan Amendments**

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## Professional Engineer's Certification

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*By means of this certification, I certify that I have reviewed this CCR Fugitive Dust Control Plan and it meets the requirements of section 40 CFR 257.80(b).*

David Anthony Miller

Printed Name of Registered Professional Engineer



*David Anthony Miller*

Signature

22663

West Virginia

10.31.2024

Registration No.

Registration State

Date

## 1.0 INTRODUCTION

This CCR Fugitive Dust Control Plan (Plan) has been prepared pursuant to the air criteria of 40 CFR part 257.80 (see Appendix A). The Plan has been prepared in accordance with the air criteria and following good engineering practices to include measures that will effectively minimize CCR from becoming airborne at the facility. The Plan and subsequent amendments will be placed in the operating record. The Plan and subsequent amendments will also be placed on John E. Amos Plant's publicly accessible internet website titled "CCR Rule Compliance Data and Information." The Plan will be amended whenever there is a change in conditions that would substantially affect the written plan in effect, such as construction and operation of a new CCR unit. Where appropriate, the Plan incorporates fugitive dust control requirements as contained in the West Virginia DEP air permits issued for the plant.

There is one inactive CCR surface impoundment and one CCR landfill located at John E. Amos Plant that are subject to the Plan. The inactive surface impoundment is the Fly Ash Pond. The John E. Amos Plant Residual Waste Landfill (Landfill) receives gypsum, fly ash (removed from ash silos) and bottom ash (removed from partially enclosed temporary storage bunkers). The Plan addresses these CCR units and the associated materials handling and roadways. The former Bottom Ash Pond (BAP) complex was transitioned to closure status on September 4, 2024, in accordance with 40 CFR 257.102, and is no longer a CCR unit.

## 2.0 FACILITY DESCRIPTION AND CONTACT INFORMATION

### *2.1 Facility Information*

Name of Facility: Appalachian Power Company – John E. Amos Plant

Street: 1530 Route 817

City: Winfield

State: West Virginia

Zip Code: 25213

County: Putnam

Latitude: 38° 28' 22" N

Longitude: 81° 49' 23" W

## 2.2 Contact Information

### Facility Operator

Name: Appalachian Power Company – John E. Amos Plant  
Attention: Curtis M. Cook — Plant Manager  
Street: 1530 Route 817  
City: Winfield  
State: West Virginia  
Zip Code: 25213

### Facility Owner

Name: Appalachian Power Company  
Attention: Jill N. Lukehart – Air Quality Services Manager  
Street: 1 Riverside Plaza  
City: Columbus  
State: Ohio  
Zip Code: 43215

### Plant Contact

Name: Scott E. Sterling — Plant Environmental Coordinator - John E. Amos Plant  
Street: 1530 Route 817  
City: Winfield  
State: West Virginia  
Zip Code: 25213  
Telephone Number: 304-759-3265  
E-mail Address: [sesterling@aep.com](mailto:sesterling@aep.com)

## 2.3 Activities at the Facility

Appalachian Power Company (APCO), a wholly owned subsidiary of American Electric Power, owns John E. Amos Plant. The John E. Amos Plant is located along the Kanawha River near Winfield, West Virginia, and consists of three electric generating units. Units 1 and 2 are each nominally rated 800 megawatts and Unit 3 is nominally rated 1300 megawatts. Coal is combusted and its energy is converted to electricity at the John E. Amos Plant, powering thousands of homes, businesses, schools, and industrial facilities.

The generating units are equipped with limestone spray tower flue gas desulfurization (FGD) technology and an electrostatic precipitator. The FGD produces synthetic gypsum as a by-product of the reaction of the sulfur compounds in the flue gas and the FGD liquor. The gypsum slurry is dewatered and conveyed to a load out pad where it is placed into trucks for transport to the Landfill. The Landfill is located on plant property adjacent to the FGD dewatering systems.

Fly ash is produced during the combustion of coal in the steam generator and has a density that allows the ash to be carried along in the flue gas stream. The electrostatic precipitator collects fly ash from the flue gas and deposits it into collection hoppers. The fly ash handling system removes fly ash from the hoppers using a vacuum system. The ash is drawn from the hoppers to a silo for temporary storage prior to being loaded into trucks and transported to the Landfill or sold for beneficial uses. The fly ash silos are equipped with an ash conditioning and a truck load-out system. The conditioning system adds water to the ash to minimize fugitive dust emissions during loading, transport, unloading and placement of the ash in the landfill. Dry fly ash may also be loaded into enclosed trucks for beneficial use. However, prior to conversion of Unit 3 to a dry fly ash handling system, the Unit 3 fly ash was previously removed from the fly ash collection hoppers using vacuum produced by a hydroveyor system and then sluiced to the Fly Ash Pond. The Fly Ash Pond served as permanent storage for the sluiced fly ash.

Bottom ash, also produced by combusting coal in the John E. Amos Plant Units, is collected in the bottom of the steam generator and utilizes a bottom ash handling system that relies on fully submerged, under-hopper drag conveyors to transfer ash from the steam generator ash hopper. The bottom ash is then transferred to a partially submerged dewatering conveyor. The dewatered ash is transferred into partially enclosed temporary storage bunkers, where it is reclaimed and loaded into trucks for transport to the Landfill for storage and use as a construction material. Prior to the conversion to this fully submerged bottom ash handling system, bottom ash was wet sluiced to the former Bottom Ash Pond (BAP) complex during unit operations.



## **2.4 General Site Map**

A USGS site location map for the Plant and Landfill is included as Figure 1-1 in Appendix B. The map shows the property boundaries, surrounding topography and receiving waters.

## **3.0 FUGITIVE DUST CONTROLS**

### **3.1 Paved and Unpaved Roadways**

#### **3.1.1 Overview**

Trucks and conveyors are used to transport CCR to the Landfill from the plant site. Fly ash is hauled by trucks from the plant over plant paved roadways to the Landfill. The trucks travel approximately 4.4 round trip miles over paved roadways to the disposal area, followed by a much shorter unpaved roadway that varies with the location of the active fill area. Similarly, bottom ash trucks travel approximately 4.4 round trip miles over paved plant roadways to the Landfill.

The dewatered gypsum is transported by conveyor to a temporary load-out pile near the generating units. Gypsum is hauled from the conveyor load-out pile over plant paved roadways to the Landfill. Trucks hauling gypsum travel approximately 2,000 round trip feet over paved roadways to the disposal area, followed by a much shorter unpaved roadway that varies with the location of the active fill area.

As an alternative to the Gypsum being placed in the landfill, a portion of the gypsum may be placed in trucks and transported off site for use by third parties.

The applicable and adequate fugitive dust control measures were primarily selected in accordance with the measures contained in West Virginia DEP Title V Air Permit for the landfill roads and plant roads. The roadways are also subject to a requirement to minimize visible emission as contained in the air permits.

#### **3.1.2 Landfill and Plant Roadways**

The primary appropriate and applicable fugitive dust control measures for roadways are watering, sweeping, and speed controls. Water trucks are

used as needed based upon the Title V Permit inspection requirements and other observations to minimize or eliminate fugitive dust generated by CCR truck traffic. The Title V Permit requires, as a minimum, an inspection of all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 (except for fly ash systems which are inspected weekly, year-round in accordance with Consent Order R2-E-2005-2) to ensure that they are operated as necessary and maintained in good working order. Chemical suppressants or stabilizers are also used a minimum of twice per year on unpaved roadways depending on specific site conditions. A street sweeper/vacuum truck may be used to clean paved roadways. Posted speed limits are 15 mph for paved and unpaved roads. Earth or other materials that may be deposited onto paved roadways from trucks will be promptly removed to minimize fugitive emissions. Implementation of control measures will not be necessary for roadways that are covered with snow and/or ice or if sufficient precipitation occurs to minimize or eliminate fugitive dust. Implementation of any control measures may be suspended if unsafe or hazardous driving conditions would be created by its use.

### **3.2 Landfill**

#### **3.2.1 Overview**

The landfill receives FGD material (gypsum), fly ash and bottom ash from the John E. Amos Plant. All materials contain moisture (conditioned) but water or chemical suppressants may be added at the landfill as necessary to minimize fugitive dust emissions. The landfill activities are subject to the West Virginia Title V Air Permit. This permit specifies the applicable and appropriate fugitive dust control measures for the site to minimize fugitive emissions. The permit also includes visible particulate emissions requirements as well as monitoring, recordkeeping and reporting requirements. [Note: “conditioned” CCR means the material has sufficient moisture content to prevent wind dispersal but will not result in free liquids]

#### **3.2.2 Unloading and Placement**

Gypsum and fly ash are unloaded from trucks in the active fill area of an open landfill cell, where a bulldozer or similar equipment will spread and compact the materials. A roller may also be used for compaction. Bottom ash is unloaded from trucks into a storage pile for use in construction or disposal within the landfill. The fugitive dust control measures for truck unloading includes maintaining moisture in the material and taking

precautionary measures (minimize drop height). The measures for spreading and compacting include maintaining vehicle speed and watering materials, if necessary.

### **3.2.3 Wind Erosion**

Generally, landfill disposal areas can be classified as closed or open. Closed areas have received final cover and vegetation has been established. Open areas contain both the active fill area and areas that have been compacted but not yet received final cover. The open area fugitive dust control measures include: precautionary measures such as minimizing the amount of open area and pile height; compacting material as it is unloaded; watering; and application of chemical suppressants. The bottom ash storage pile fugitive dust emissions are minimized by watering, application of chemical suppressants and pile height control.

### **3.3 Bottom Ash Handling**

Bottom ash produced by the operating unit is transferred from the steam generator ash hopper by fully submerged, under-hopper drag conveyors. The bottom ash is then transferred to a partially submerged dewatering conveyor. The dewatered ash is transferred into partially enclosed temporary storage bunkers. The dewatered bottom ash is then loaded onto trucks for transport to the landfill. Prior to completion of the BAP complex repurposing activities, bottom ash was collected in the bottom of the steam generator and wet sluiced to the former BAP complex during unit operations.

While the bottom ash typically remains wet, depending on the amount of moisture remaining in the ash and seasonal conditions, there may be fugitive emissions from the pile or truck loading activities. A review of potential control measures concluded that the applicable and appropriate options consist of: watering, chemical suppressant application, and minimizing drop height. Water or chemical dust suppressant is applied to the pile to minimize fugitive emissions as needed. Water spray is applied as needed to the material handling activities and the drop from the loader into the trucks is minimized to further minimize fugitive emissions. Enclosures, compaction, and daily cover at the landfill are not applicable given the size of the area and characteristics of the material.

### **3.4 Unit 3 Fly Ash Pond**

Prior to the conversion of Amos Unit 3 to a dry fly ash system, fly ash produced by the unit, when burning coal, was wet sluiced to the Unit 3 Fly Ash Pond. APCO began working with WVDEP in 2015 to close the pond in place by installing an engineered cap. The draining and closure construction activities at the pond were completed in 2017. The pond area has been capped and vegetation is being established. The cap and ground cover prevent CCR material from becoming fugitive dust. The CCR unit will require post-closure care and groundwater monitoring for 30 years. Fugitive dust emissions from the dewatered areas of the fly ash pond are minimized by wetting or application of chemical suppressants as necessary.

### **3.5 Dry Fly Ash Handling**

The John E. Amos Plant units use a dry fly ash handling system. The fly ash handling system removes fly ash from the hoppers using a vacuum system. The ash is drawn from the hoppers to a silo for temporary storage before being loaded onto trucks. Fly ash is transferred from the silos via a truck load-out system where it is conditioned with water and loaded into trucks for disposal at the landfill, or beneficial use off site by third parties. The dry fly ash systems are subject to the Title V operating permit for the facility. The permit specifies the applicable and appropriate fugitive dust control measures for the site to minimize or eliminate fugitive emissions. The control measures include: full enclosures, bin vent filters and water spray curtains.

### **3.6 Gypsum Transfer and Stockpile**

John E. Amos Plant gypsum is dewatered and transferred by conveyors to a temporary load-out pile near the dewatering building where it is loaded onto trucks for disposal at the landfill or transfer off site. These activities are subject to the Title V operating permit for the facility. The permit application specifies the applicable and appropriate fugitive dust control measures for the site to minimize or eliminate fugitive emissions. The control measures include: moisture content of the gypsum; and enclosed or partially enclosed conveyors and transfers. The gypsum is loaded into trucks and dust is controlled due to the moisture of the material and by minimizing the drop height.

## **4.0 PLAN ASSESSMENT**

The Plan will be periodically assessed to verify its effectiveness, and if necessary, amended in accordance with Section 7.0 below. The Landfill and associated paved and unpaved roadways are inspected on a frequency consistent with the previously mentioned Title V permit requirements. The purpose of the inspections is to determine if the control measures for each CCR unit as described above are being

implemented as necessary to minimize or eliminate fugitive emissions. Records of inspections and the control measures implemented as a result of the inspections will be maintained. The Plant Environmental Coordinator will review the inspection records annually to assess the effectiveness of the Plan and determine if additional or modified measures are warranted. No inspection is necessary if the surface is covered with snow and/or ice or if precipitation has occurred that is sufficient to minimize or eliminate fugitive emissions. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

## **5.0 CITIZEN COMPLAINT LOG**

### ***5.1 Facility Dust Control Plan Contacts***

Generally, complaints made to the plant are by telephone and received by the Plant Environmental Coordinator (Plant Contact). In the case of holiday, weekends, or other times when the Plant Environmental Coordinator may not be onsite, the plant guard house or plant general phone number may receive complaint information by telephone that is provided to the Plant Environmental Coordinator at the earliest convenience. Complaints may also be made to the West Virginia DEP who in turn will contact the Plant Environmental Coordinator.

### ***5.2 Follow-up***

All complaints will be entered into a log by the Plant Environmental Coordinator with details noted such as the nature of the complaint, date, time, and other relevant details. All complaints will be followed up which may include: checking plant operations at the time of the event, reviewing inspection records, discussing with other plant personnel, reviewing weather data, collecting samples and contacting the person making the complaint to obtain additional information.

### ***5.3 Corrective Action and Documentation***

Corrective actions will be taken as needed and documented. If it is determined that the Plan needs to be amended as a result of the corrective actions, it will be amended in accordance with the Plan. If possible, the Plant Environmental Coordinator will follow-up with the complainant and/or West Virginia DEP to explain the findings of the complaint investigation, corrective actions, or sampling results. Citizen complaints will be recorded in the annual Report.

## **6.0 ANNUAL REPORT**

The Annual CCR Fugitive Dust Control Report (Annual Report) will be prepared which includes the following components: description of actions taken to control CCR fugitive dust; a record of all citizen complaints; and a summary of any corrective measures taken. The initial Annual Report will be completed no later than 14 months after placing the initial CCR fugitive dust control plan in the facility's operating record. The deadline for completing subsequent reports is one year after the date of completing the previous reports. The Annual Report will be deemed complete when the plan has been placed in the facility's operating record as described in Section 8.0.

## **7.0 PLAN AMENDMENTS**

This Plan is a "living" document and will be amended, as necessary, whenever there is a change in condition that would substantially affect the written plan in effect. The Plan will be amended in the case of construction and operation of a new CCR unit. Amendments made to the Plan will be documented in Appendix C. The amended Plan will be placed into the facility's operating record as described in Section 8.0.

## **8.0 RECORDKEEPING, NOTIFICATION, and INTERNET REQUIREMENTS**

### ***8.1 Recordkeeping***

The Plan and files of all related information will be maintained in a written operating record at the facility for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, record, or study. Files may be maintained on a computer or an electronic storage system accessible by a computer. One recordkeeping system may be used for each unit if the system identifies each file by the name of each unit. The Plan (and any subsequent amendment of the plan) and the Annual Report will be kept in the facility's operating record as they become available. Only the most recent Plan must be maintained in the record. [§ 257.105]

### ***8.2 Notification***

West Virginia DEP will be notified within 30 days of placing the Plan (or any subsequent amended Plan) or the Annual Report into the operating record and on the publicly available internet site. This notification will be made before the close of business on the day the notification is required to be completed. "Before the close of business day" means the notification must be postmarked or sent by

e-mail. If the notification deadline falls on a weekend or federal holiday, the notification is automatically extended to the next business day. [§ 257.106]

### ***8.3 Internet Site Requirements***

The most recent Plan and annual Report will be placed on the facility's CCR website titled "CCR Rule Compliance Data and Information" within 30 days of placing them in the operating record. [§ 257.107]

# Appendix A

Air Criteria of 40 CFR Part 257.80  
and 40 CFR Part 257.100



## **Operating Criteria**

### **§ 257.80 Air criteria.**

(a) The owner or operator of a CCR landfill, CCR surface impoundment, or any lateral expansion of a CCR unit must adopt measures that will effectively minimize CCR from becoming airborne at the facility, including CCR fugitive dust originating from CCR units, roads, and other CCR management and material handling activities.

#### *(b) CCR fugitive dust control plan.*

The owner or operator of the CCR unit must prepare and operate in accordance with a CCR fugitive dust control plan as specified in paragraphs (b)(1) through (7) of this section. This requirement applies in addition to, not in place of, any applicable standards under the Occupational Safety and Health Act.

(1) The CCR fugitive dust control plan must identify and describe the CCR fugitive dust control measures the owner or operator will use to minimize CCR from becoming airborne at the facility. The owner or operator must select, and include in the CCR fugitive dust control plan, the CCR fugitive dust control measures that are most appropriate for site conditions, along with an explanation of how the measures selected are applicable and appropriate for site conditions. Examples of control measures that may be appropriate include: Locating CCR inside an enclosure or partial enclosure; operating a water spray or fogging system; reducing fall distances at material drop points; using wind barriers, compaction, or vegetative covers; establishing and enforcing reduced vehicle speed limits; paving and sweeping roads; covering trucks transporting CCR; reducing or halting operations during high wind events; or applying a daily cover.

(2) If the owner or operator operates a CCR landfill or any lateral expansion of a CCR landfill, the CCR fugitive dust control plan must include procedures to emplace CCR as conditioned CCR. Conditioned CCR means wetting CCR with water to a moisture content that will prevent wind dispersal, but will not result in free liquids. In lieu of water, CCR conditioning may be accomplished with an appropriate chemical dust suppression agent.

(3) The CCR fugitive dust control plan must include procedures to log citizen complaints received by the owner or operator involving CCR fugitive dust events at the facility.

(4) The CCR fugitive dust control plan must include a description of the procedures the owner or operator will follow to periodically assess the effectiveness of the control plan.

(5) The owner or operator of a CCR unit must prepare an initial CCR fugitive dust control plan for the facility no later than October 19, 2015, or by initial receipt of CCR in any CCR unit at the facility if the owner or operator becomes subject to this subpart after October 19, 2015. The owner or operator has completed the initial CCR fugitive dust control plan when the plan has been placed in the facility's operating record as required by § 257.105(g)(1).

(6) *Amendment of the plan.* The owner or operator of a CCR unit subject to the requirements of this section may amend the written CCR fugitive dust control plan at any time provided the revised plan is placed in the facility's operating record as required by § 257.105(g)(1). The owner or operator must amend the written plan whenever there is a change in conditions that would substantially affect the written plan in effect, such as the construction and operation of a new CCR unit.

(7) The owner or operator must obtain a certification from a qualified professional engineer that the initial CCR fugitive dust control plan, or any subsequent amendment of it, meets the requirements of this section.

*(c) Annual CCR fugitive dust control report.* The owner or operator of a CCR unit must prepare an annual CCR fugitive dust control report that includes a description of the actions taken by the owner or

operator to control CCR fugitive dust, a record of all citizen complaints, and a summary of any corrective measures taken. The initial annual report must be completed no later than 14 months after placing the initial CCR fugitive dust control plan in the facility's operating record. The deadline for completing a subsequent report is one year after the date of completing the previous report. For purposes of this paragraph (c), the owner or operator has completed the annual CCR fugitive dust control report when the plan has been placed in the facility's operating record as required by § 257.105(g)(2).

(d) The owner or operator of the CCR unit must comply with the recordkeeping requirements specified in § 257.105(g), the notification requirements specified in § 257.106(g), and the internet requirements specified in § 257.107(g).

CCR Extension Rule Language:

**§ 257.100 Inactive CCR surface impoundments.**

(e) Timeframes for certain inactive CCR surface impoundments

(4) Operating criteria. The owner or operator of the inactive CCR surface impoundment must:

(i) No later than April 18, 2017, prepare the initial CCR fugitive dust control plan as set forth in § 257.80(b).

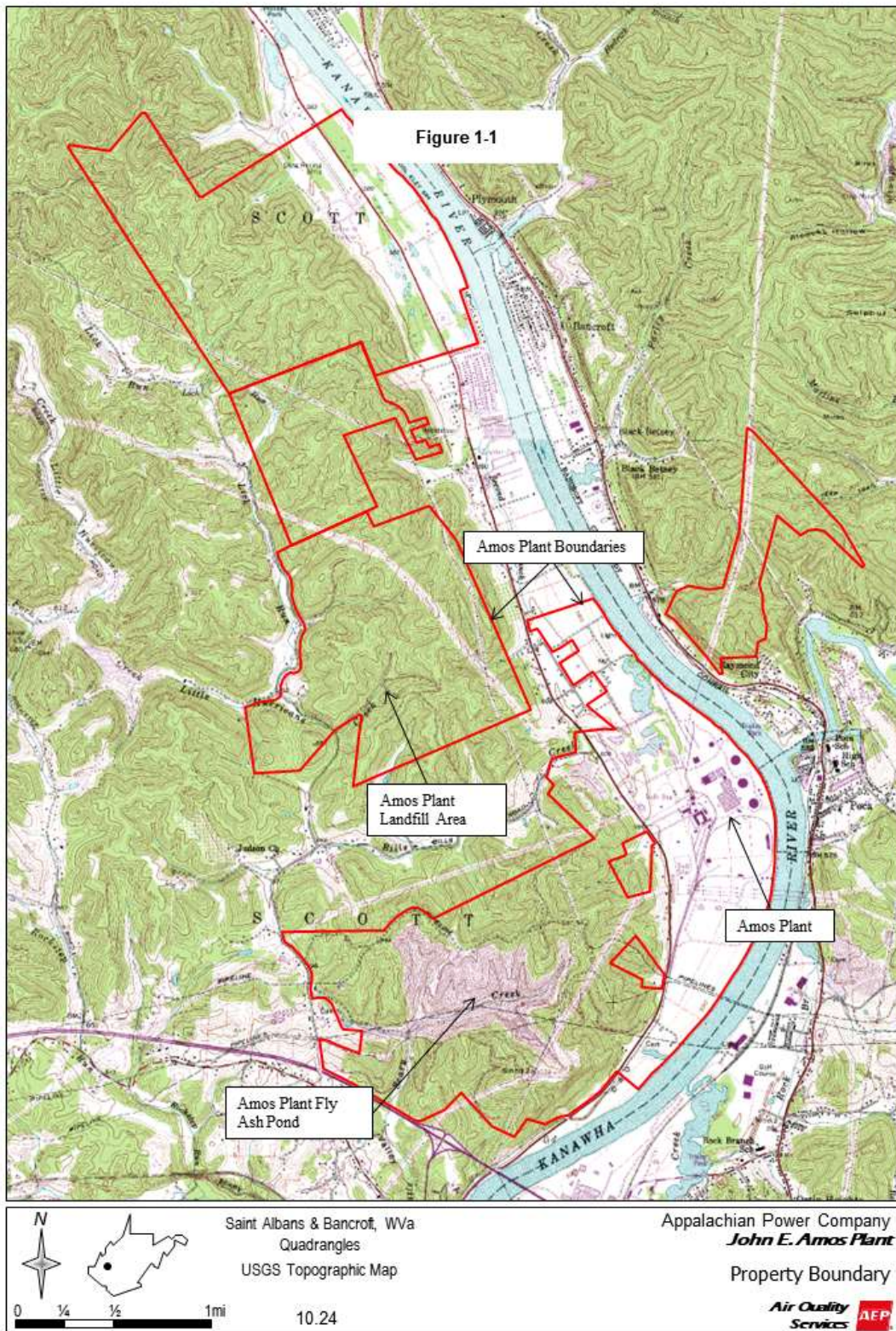
(ii) No later than April 17, 2018, prepare the initial inflow design flood control system plan as set forth in § 257.82(c).

(iii) No later than April 18, 2017, initiate the inspections by a qualified person as set forth by § 257.83(a).

(iv) No later than July 19, 2017, complete the initial annual inspection by a qualified professional engineer as set forth by § 257.83(b).

## Appendix B

### Site Map for Plant and Landfill



# Appendix C

## Plan Amendments

