

## **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

**CLOSURE CERTIFICATION BY QUALIFIED PROFESSIONAL ENGINEER**

I certify that the John E. Amos Bottom Ash Pond Complex has been closed in accordance with the most recent written closure plan specified by paragraph §257.102(b) and the requirements of section §257.102.

David Anthony Miller

Printed Name of Licensed Professional Engineer

*David Anthony Miller*

Signature



22663

License Number

West Virginia

Licensing State

09.26.2024

Date



Charleston Office  
500 Lee Street, East, Suite 700  
Charleston, West Virginia 25301

T 304.926.8100  
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August 5, 2024  
Project No. R210487.00

Mr. Brian G Palmer, PE  
Principal Engineer  
AEP  
1 Riverside Plaza  
Columbus, Ohio 43215

**AEP – John E. Amos  
Bottom Ash Complex  
Pond Closure - Completion  
Putnam County, West Virginia**

Dear Mr. Palmer:

GAI Consultants, Inc. (GAI) appreciates the opportunity to provide American Electric Power Service Corporation (AEP) with the Quality Assurance / Quality Control and certification services for the closure of the Bottom Ash Complex at the John E. Amos Plant located in Putnam County, West Virginia.

This letter documents that removal of the coal combustion residual material from the bottom ash complex was completed in substantial compliance with the Construction Documents completed by Worley, the Closure Plan and 40 CFR 257.102(c).

The areas of the bottom ash complex were certified as they were completed. The following presents the areas and certification date:

- Pond 1B – April 21, 2023
- Clearwater and Reclaim Ponds – July 24, 2023
- Pond 1A – August 5, 2024

If you have any questions or require additional information, please contact me at 681.245.8866 (c.straley@gaiconsultants.com).

Respectfully submitted.,

**GAI Consultants, Inc.**

Charles F. Straley, PE

Digitally signed by Charles F. Straley, PE  
DN: C=US,  
E=c.straley@gaiconsultants.com, O="GAI  
Consultants, Inc.", CN="Charles F. Straley,  
PE"  
Date: 2024.08.05 15:16:48-04'00'

Charles F. Straley, PE, PLS  
Quality Assurance Officer / Certifying Engineer  
Engineering Director / Senior Associate

CFS

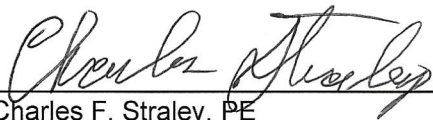
## 5.0 PE Certification

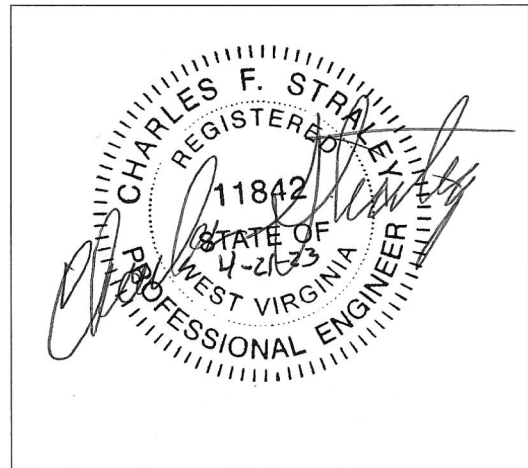
Based on the observations performed by GAI Consultants, Inc. personnel, I hereby certify that the removal of CCR material to be visually removed and one-foot additional undercut within Pond 1B and along the southern edge of Pond 1A of the CCR/ELG Project Bottom Ash Pond Closure and Repurposing Project at the John E. Amos Plant near Winfield, West Virginia (WV), as shown on the Worley Construction Drawings has been completed in substantial compliance with the Construction Documents, the Closure Plan and 40 CFR 257.102(c).

This document clarifies "certification" for the excavation of CCR material to be visually removed and an additional one-foot of undercut within Pond 1B and along the southern edge of Pond 1A of the CCR/ELG Project Bottom Ash Pond Closure and Repurposing Project. This certification is strictly limited to CQA observations of CCR removal and does not include the groundwater monitoring and compliance aspect of the CCR Unit closure by removal criteria, as required by 40 CFR 257.102(c).

The definition of certify as used herein is: Certify means to state or declare a professional opinion of conditions whose true properties cannot be known at the time such certification was made, despite appropriate professional evaluation. A design professional's certification in no way relieves any other party from meeting requirements imposed by contract or other means, including commonly accepted industry practices.

Bearing the above in mind and based on the results of monitoring of construction efforts during the project and review of the survey points; GAI's professional opinion is that the CCR material within Pond 1B and along the southern edge of Pond 1A and additional one-foot undercut of the CCR/ELG Project Bottom Ash Pond Closure and Repurposing Project meets the requirements as set forth by the project documents and the CCR Rule.

  
\_\_\_\_\_  
Charles F. Straley, PE  
West Virginia Number 11842



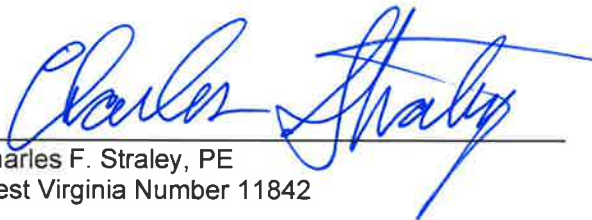
## 5.0 PE Certification

Based on the observations performed by GAI Consultants, Inc. personnel, I hereby certify that the removal of CCR material to be visually removed and one-foot additional undercut within Clearwater & Reclaim Ponds of the CCR/ELG Project Bottom Ash Pond Closure and Repurposing Project at the John E. Amos Plant near Winfield, West Virginia (WV), as shown on the Worley Construction Drawings has been completed in substantial compliance with the Construction Documents, the Closure Plan and 40 CFR 257.102(c).

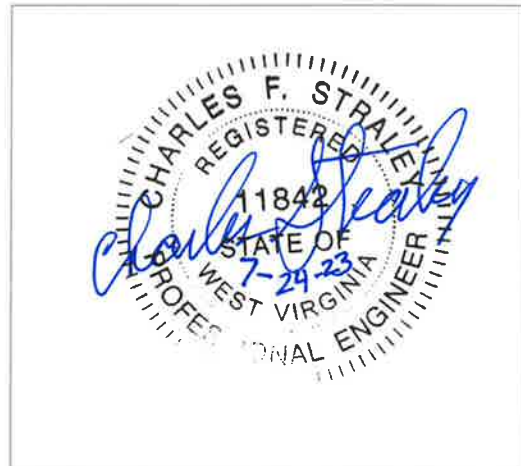
This document clarifies "certification" for the excavation of CCR material to be visually removed and an additional one-foot of undercut within Clearwater & Reclaim Ponds of the CCR/ELG Project Bottom Ash Pond Closure and Repurposing Project. This certification is strictly limited to CQA observations of CCR removal and does not include the groundwater monitoring and compliance aspect of the CCR Unit closure by removal criteria, as required by 40 CFR 257.102(c).

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Bearing the above in mind and based on the results of monitoring of construction efforts during the project and review of the survey points; GAI's professional opinion is that the removal of CCR material within Clearwater & Reclaim Ponds and additional one-foot undercut of the CCR/ELG Project Bottom Ash Pond Closure and Repurposing Project meets the requirements as set forth by the project documents and the CCR Rule.



Charles F. Straley, PE  
West Virginia Number 11842



## 5.0 PE Certification

Based on the observations performed by GAI Consultants, Inc. personnel, I hereby certify that the removal of CCR material to be visually removed and one-foot additional undercut within Pond 1A of the CCR/ELG Project Bottom Ash Pond Closure and Repurposing Project at the John E. Amos Plant near Winfield, West Virginia (WV), as shown on the Worley Construction Drawings has been completed in substantial compliance with the Construction Documents, the Closure Plan and 40 CFR 257.102(c).

This document clarifies "certification" for the excavation of CCR material to be visually removed and an additional one-foot of undercut within Pond 1A of the CCR/ELG Project Bottom Ash Pond Closure and Repurposing Project. This certification is strictly limited to CQA observations of CCR removal and does not include the groundwater monitoring and compliance aspect of the CCR Unit closure by removal criteria, as required by 40 CFR 257.102(c).

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Bearing the above in mind and based on the results of monitoring of construction efforts during the project and review of the survey points; GAI's professional opinion is that the CCR material within Pond 1A and additional one-foot undercut of the CCR/ELG Project Bottom Ash Pond Closure and Repurposing Project meets the requirements as set forth by the project documents and the CCR Rule.



Charles F. Straley, PE  
West Virginia Number 11842



**MONITORING AND EMERGENCY ACTION PLAN  
FOR THE  
JOHN E. AMOS BOTTOM ASH POND COMPLEX  
ID # 07918  
WINFIELD, PUTNAM COUNTY, WEST VIRGINIA**

Owned by:

John E. Amos Plant  
Appalachian Power Company  
1530 Winfield Road  
Winfield, WV 25213

Prepared By:

American Electric Power Service Corp.  
One Riverside Plaza  
Columbus Ohio 43215

November 2023





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**Appendices**

- A EAP Training Record
- B Unusual or Emergency Event Log
- C Emergency Contacts

**Note:**

- The November 2023 Emergency Action Plan revision reflects changes in plant contacts:
- Relocation of the Putnam County Sheriff Office.
- Noah Alvis added to Putnam County OEM.
- Paul Massie as John Amos Plant Manager.
- Bryan Brunton as Geotechnical Engineering Manager
- Relocation of the WV Emergency Management Division



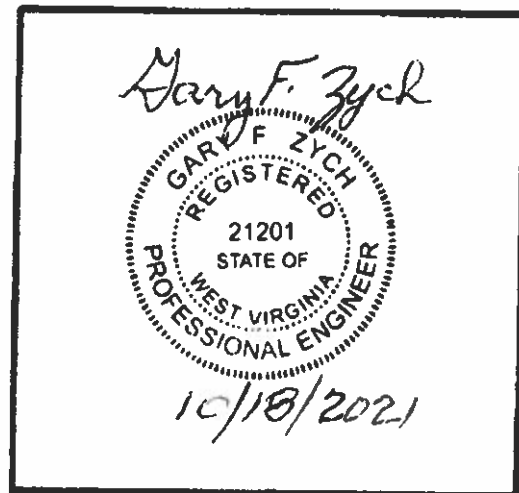
**EMERGENCY ACTION PLAN  
CFR 257.73 (a)(3)  
BOTTOM ASH PONDS COMPLEX DIKES  
JOHN E AMOS PLANT**

GERS-21-021

**PREPARED BY** Christy L. Lawrence **DATE** 10/5/21  
Christy L. Lawrence

**REVIEWED BY** Brian G. Palmer **DATE** 10/18/2021  
Brian G. Palmer, P.E.

**APPROVED BY** Gary F. Zych **DATE** 10/18/2021  
Gary F. Zych, P.E.  
Manager - AEP Geotechnical Engineering



I certify to the best of my knowledge, information, and belief that the information contained in Emergency Action Plan meets the requirements of 40 CFR § 257.73 (a)(3)

Note: Reviewed and no technical changes from the version signed and sealed April 17, 2017.



## Introduction

### Purpose of Plan

The purpose of this document is to provide for monitoring of the John E. Amos Plant Bottom Ash Pond Complex under various conditions so that an emergency situation at the complex will be observed promptly and reported to agencies and persons who may be affected. This document also provides a plan for the orderly notification and evacuation of downstream residents to a place of safety in the event of a potential or actual dam failure.

### Brief Overview of Dam and Observed Problems

The John E. Amos Plant Bottom Ash Pond Complex consists of two ash ponds, a reclaimed water pond, and a treatment pond. The main dike is an earthen structure 30 feet high and impounding a maximum volume of water of 950 acre-feet. The primary spillway consists of a 24 inch by 36 inch elliptical pipe. The dam has an emergency spillway consisting of two 36-inch diameter pipes through the main dike, discharging into Bill's Creek. The dam normally has a freeboard (vertical distance in feet between the normal reservoir elevation and the top of the dam) of 5 feet.

### List of All Known Problems Concerning the Dam

No known problems at this time.

### Driving Directions to Dam

Starting at the intersection of First Avenue (WV-25 W) and Lock Street in Nitro, WV, travel north on First Avenue (WV-25 W) for 2.1 miles before turning right to merge onto I-64 W. After 1.1 miles, take Exit 44 toward US-35/St. Albans. Turn left in 0.2 mile, at the end of the exit ramp, toward Winfield Road. Take the freeway 0.6 mile and turn left onto WV-817 N/Winfield Road. Travel 2.6 miles on WV-817 N/Winfield Road and enter the plant on your right. Located in northern part of plant property.

Coordinates for the dam are 38.479529, -81.830207 (NAD83).

### How to Use This Document

Persons using this plan will find a sequence of actions to implement depending on quantities of rainfall and site conditions. A summary of where to find specific monitoring, reporting and evacuation requirements can be found in the Summary and Index.

### Plans for Training, Exercising, and Updating the Emergency Action Plan

The purpose of an annual review and training of the EAP is to ensure that all contact information listed in the notification charts is accurate and that the owner/operator of the dam and local first responders are familiar with the EAP and understand their respective roles in responding to a dam emergency.

### Training and Updating

Local County Emergency Management Agency/first responders should be invited to attend an annual training for a face-to-face meeting and to have a general sense of familiarity with the dam site. The plant manager, or a designated representative, will be responsible for updating the EAP as necessary and distributing copies of the revisions. Copies of all updated or revised pages will be provided to all designated holders of the EAP.

### **EAP Exercises**

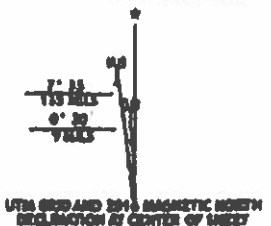
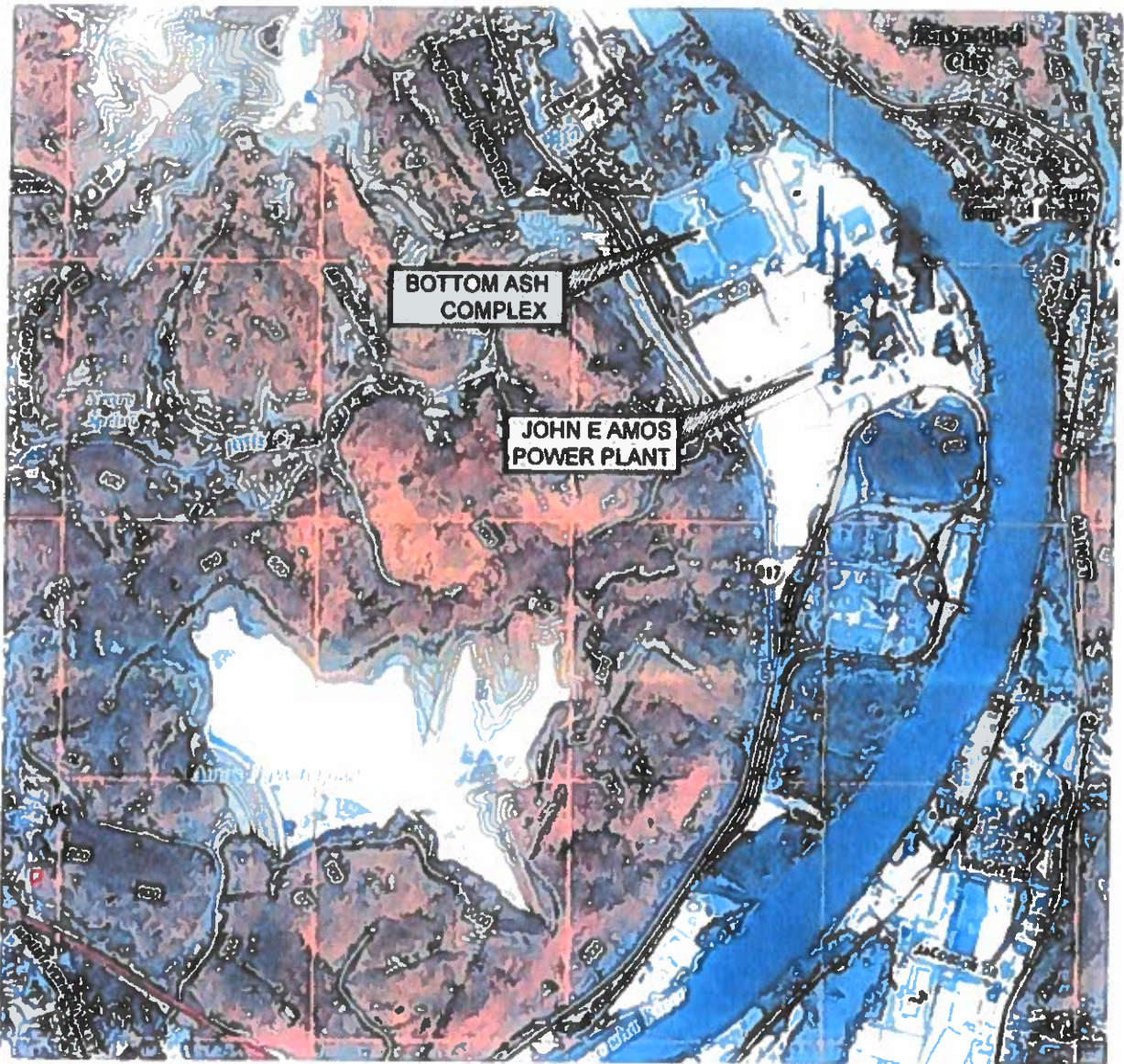
In addition, the dam owner/operator should work with local emergency management and other first responders to determine what opportunities exist to conduct or participate in a dam related EAP exercises. Records/summaries of all EAP exercises should be documented in the EAP (Appendix A).

Any changes to the EAP stemming from justified concerns raised by anyone participating in any EAP exercise should be documented and distributed to all holders of the EAP.

## Location Map



FIGURE 1



SAINT ALBANS, WV 7.5 MINUTE SERIES UPDATED 2016 ID#07918

THIS DRAWING IS CLASSIFIED AS

**AEP PUBLIC**

APPALACHIAN POWER COMPANY

**AMOS PLANT**

DATE  
0

DRAWING NUMBER  
**LOCATION MAP**

REV  
0

REFERENCE AEP'S CORPORATE INFORMATION SECURITY POLICY

SCARY WEST VIRG N.A

SCALE 1"=2000'

**CIVIL ENGINEERING**

OR

CH

SUP

ENG

DATE 6/12/17

THIS DRAWING IS THE PROPERTY OF THE AMERICAN ELECTRIC POWER SERVICE CORP. AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART OR USED FOR FURNISHING INFORMATION TO ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE AEP SERVICE CORP. OR FOR ANY PURPOSE DETRIMENTAL TO THEIR INTEREST AND IS TO BE RETURNED UPON REQUEST.

**BOTTOM ASH COMPLEX  
LOCATION MAP  
PUTNAM COUNTY**



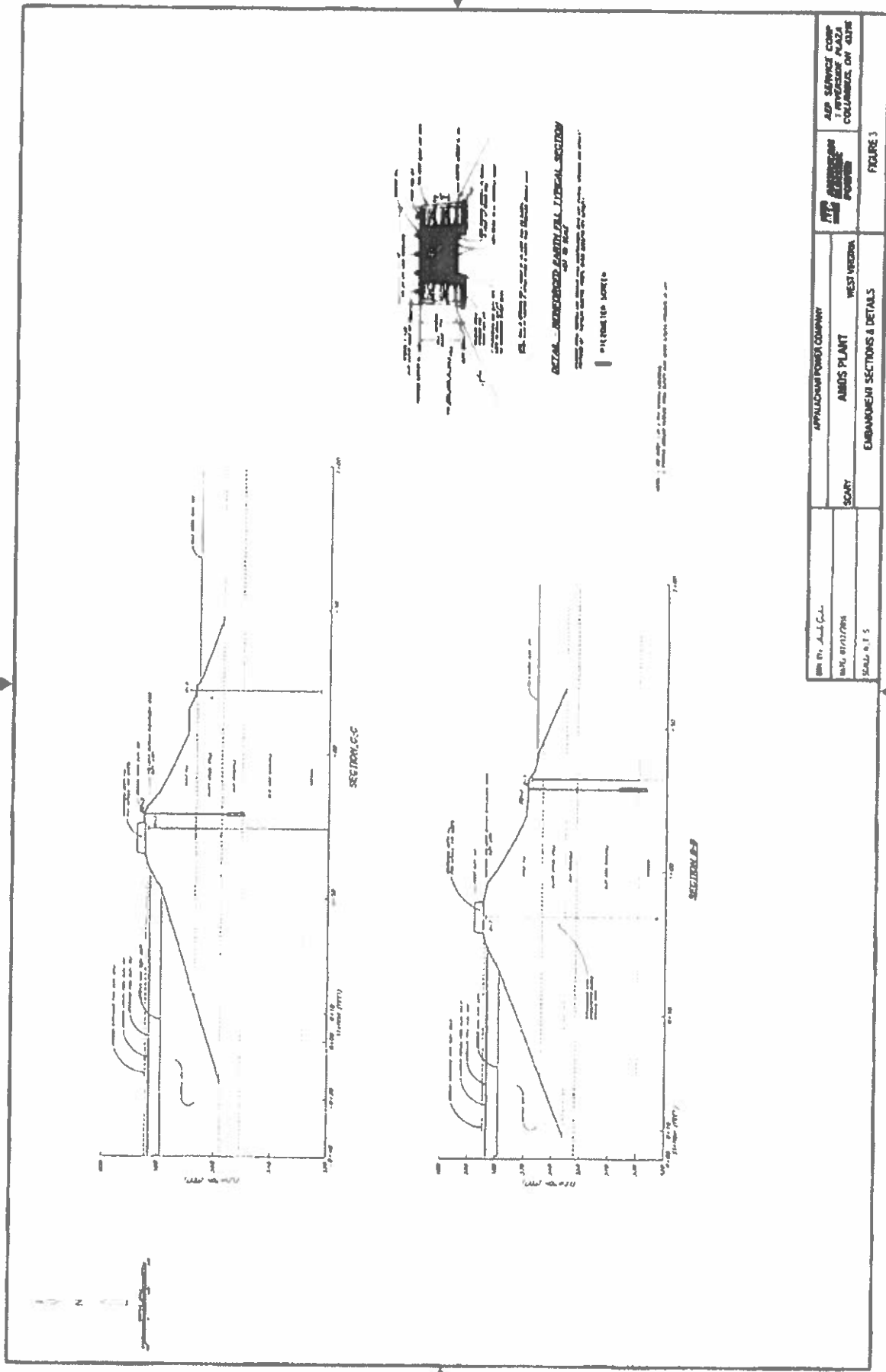
AEP SERVICE CORP.  
1 RIVERSIDE PLAZA  
COLUMBUS, OH 43215





## Configuration Map





APPALACHIAN POWER COMPANY AMBOS PLANT WEST VIRGINIA EMBANKMENT SECTIONS & DETAILS	AEP SERVICE COMP ENGINEERING COLUMBIANA, OH 43016
SHEET NO. 101 DATE: 11/17/78 SCALE: 1/4" = 1'-0"	FIGURE 3









## **SUMMARY AND INDEX**

### **Part I – Monitoring Plan and Inspection Schedule**

#### **Section A – Normal Conditions**

Dam will be inspected according to the prescribed schedule and checked for items specified on the dam inspection checklist.

#### **Section B – Adverse Conditions**

Dam will be inspected within 24 – 48 hours of the conditions described.

#### **Section C – Standby Alert**

Dam has specific problem(s), which could lead to an evacuation condition. Constant surveillance is initiated and a Standby Alert is issued. Emergency repairs begin, if possible.

#### **Section D – Evacuation Conditions**

A dam failure is imminent or has occurred. Notification will be initiated and an evacuation order will be given by approved AEP personnel, if warranted.

### **Part II – Emergency Action and Evacuation Plan**

#### **Section A – Notification**

The residences of the flood inundation area will be notified to evacuate by plant personnel if failure of the dam is imminent or has already occurred. Notification will also be given to the Putnam County Office of Emergency Services (OES) to commence evacuation. Notification of the emergency will also be given to other appropriate agencies.

#### **Section B – Evacuation of Downstream Persons**

A narrative of the evacuation procedures is provided.

#### **Section C – Evacuation Maps**

Not Applicable. No structures are located within the inundation area.

### **Part III – Post Evacuation Notification Procedure**

#### **Section A – No Failure of the Dam**

Cancellation of evacuation order occurs.

#### **Section B – Failure of the Dam**

Coordination with emergency relief agencies continues.



## **Part IV– Administration and Record Keeping**

### **Section A – Signature and Distribution List**

### **Section B – Maintenance and Inspection Record**

### **Appendices**

- A EAP Training Record
- B Unusual or Emergency Event Log
- C Emergency Contact
- D Inundation Map

### Part I – Monitoring Plan and Inspection Schedule

**HOMELAND SECURITY.** In the event of sabotage or security breach that may lead to failure of the dam, the Putnam County Office of Emergency Management will be notified immediately by calling 911. Proceed immediately to Part I, Section C or D as appropriate.

#### Section A – Normal Conditions

Items to be inspected during normal conditions (dry weather or occasional rainfall [ $<3$ " in 24 hours]) are to include, but are not limited to the following:

1. reading of instrumentation or operation of emergency pumps;
2. Inspection of trash racks, spillways, seepage zones;
3. Check for embankment cracking, slumps, sinkholes, bulges; and
4. Equipment failure and vandalism

<u>Action</u>	<u>Responsibility</u>
1. Inspect monthly or as appropriate to condition of dam.	Plant Personnel *
2. If an "Unusual Condition with Minimal Potential for Dam Failure" is found, contact AEPSC's Geotechnical Engineering Section; report on inspection checklist and increase inspection frequency in accordance with the Geotechnical Engineering recommendations.	Plant Personnel *
3. If a serious problem is observed, which is classified as a "Serious but Non-Emergency – Potential Dam Failure is Developing," proceed to Section C – Standby Alert.	Plant Personnel *
4. If an "Emergency – Failure is Imminent or has Occurred" feature is observed, proceed to Section D – Evacuation Conditions.	Plant Personnel *
5. Annual geotechnical safety inspection	Professional Engineer

\* Appropriate names, addresses, and phone numbers are provided in Appendix B.

**Table 1**  
**Condition Response Table**

Performance Level of Dam	Malfunctions or Undesirable Features	Actions to Be Taken By Field Personnel (In Order Indicated)
<p><b>Non-Emergency</b></p> <p>Minor Deficiency</p>	<ul style="list-style-type: none"> <li>• Damaged instrumentation</li> <li>• Sloughing</li> <li>• Rodent Burrows</li> <li>• Surface erosion</li> <li>• Trees and tall vegetation</li> <li>• Poor vegetation cover</li> <li>• Deteriorated riprap</li> </ul>	<ol style="list-style-type: none"> <li>1. Report on inspection checklist.</li> <li>2. Write repair order, if appropriate</li> </ol>
<p><b>Adverse Conditions</b></p> <p>Unusual Condition with Minimal Potential for Dam Failure</p>	<ul style="list-style-type: none"> <li>• Cracks parallel or transverse to dam</li> <li>• Soft zones on downstream face or toe</li> <li>• Previously undetected springs with clear water and stable flow rate on face of dam or abutments</li> <li>• Excessive settlement of crest</li> </ul>	<ol style="list-style-type: none"> <li>1. Contact AEPSC Geotechnical Engineering Section.</li> <li>2. Report on inspection checklist.</li> <li>3. Increase frequency of inspection as necessary.</li> </ol>
<p><b>Standby Alert</b></p> <p>Potential Dam Failure is Developing</p>	<ul style="list-style-type: none"> <li>• The formation of new springs with turbidity or a change in flow characteristics from existing springs on the downstream face or abutments including an increase in flow and/or turbidity</li> <li>• Pipes, cavities, or holes which could be attributed to internal erosion even without evidences of seepage</li> <li>• Clogged drains</li> <li>• Slides with no seepage and that do not reach the dam crest</li> <li>• Noticeable increase in amount of foundation or abutment seepage or piezometric level for no apparent reason</li> </ul>	<ol style="list-style-type: none"> <li>1. Notify Team Leader who in turn should issue a Standby Alert.</li> <li>2. Contact AEPSC Geotechnical Engineering manager/engineer.</li> <li>3. Determine appropriate advisory notification actions.</li> <li>4. Initiate daily or more frequent surveillance program.</li> <li>5. Read all field instrumentation daily.</li> <li>6. Report on inspection checklist.</li> </ol>
<p><b>Emergency/ Evacuation Conditions</b></p> <p>Failure is Imminent or Has Already Occurred</p>	<ul style="list-style-type: none"> <li>• Overtopping or activation of emergency spillway</li> <li>• Breach or slide below the waterline, which reaches the dam crest and/or seeps water</li> <li>• Springs on abutment or downstream slope with muddy water and progressively increasing flow rate</li> </ul>	<ol style="list-style-type: none"> <li>1. Notify Team Leader who in turn should issue a Notification.</li> <li>2. Continue 24-hr surveillance program, if possible.</li> <li>3. Report on inspection checklist</li> </ol>

**Section B – Adverse Conditions**

Items to be inspected during adverse conditions heavy or extended rainfall (>3" in 24 hours), flash flood warnings, snow-melt or serious new problems found under normal conditions) are to include, but are not limited to the following:

1. Embankment stability including any signs of erosion, cracking, slumps, sinkholes, bulges, and sloughing.
2. Operation of discharge pumps, and inspection of pipes, trash racks, spillways, spillway discharge levels,
3. Inspection of reservoir elevation and freeboard, seepage zones, and equipment failure

**EARTHQUAKE** Occurrence of an earthquake of sufficient magnitude to cause structural damage to buildings or property in the general area of the dam shall be considered an "adverse condition." Damage from an earthquake may be internal to the dam and problems may not appear for days or weeks after the event. The dam shall be inspected immediately after the quake and daily for several weeks thereafter. Attention should be directed to looking for cracks, slips, new wet or seepage areas and leakage, both on the face of the dam and in the natural ground areas downstream and at the abutments of the dam.

<u>Action</u>	<u>Responsibility</u>
1. Inspect dam and appurtenance as per the checklist within 24 hours of adverse conditions.	Plant Personnel *
2. If a "minor deficiency" is found, report on inspection checklist and write a repair order, if appropriate.	Plant Personnel *
3. If an "Unusual Condition with Minimal Potential for Dam Failure" is found, contact AEPSC's Geotechnical Engineering Section; report on inspection checklist and increase inspection frequency in accordance with the Geotechnical Engineering recommendations.	Plant Personnel *
4. If a serious problem is observed, which is classified as a "Serious but Non-Emergency – Potential Dam Failure is Developing," proceed to Section C – Standby Alert.	Plant Personnel *
5. If an "Emergency – Failure is Imminent or has Occurred" feature is observed, proceed to Section D – Evacuation Conditions.	Plant Personnel *

\* Appropriate names, addresses, and phone numbers are provided in Appendix C.

**Section C – Standby Alert**

When the condition of dam has deteriorated or water rises to within 3 feet below the crest of the embankment a standby alert is to be issued according to the action list below. Items to be inspected or accomplished under these conditions are the following

1. reservoir elevation and freeboard,
2. seepage zones, embankment cracking or piping, slumps, sinkholes, bulges, and equipment failure

<u><b>Action</b></u>	<u><b>Responsibility</b></u>
1. Notify Team Leader and begin constant surveillance of dam. Read all field instrumentation daily and report on inspection checklist.	Plant Personnel *
2. Standby Alert shall be issued in accordance with the Standby Alert advisory below.	Team Leader *
3. Respond to notification of Standby Alert.	DWWM Dam Safety 1-800-642-3074
4. If warranted, start emergency communications to involved parties based upon the continuing deterioration of site conditions. Request additional assistance as necessary. If possible, attempt to lower the reservoir pool elevation by removal opening drain gate valve.	Putnam County OES (304) 586-4920  Putnam County Sheriff (304) 586-0256 or Plant Personnel
5. Evaluate the dam and problem areas for corrective action.	Plant Personnel & AEPSC Geotechnical Engineering Section
6. Commence corrective/ emergency repairs, if possible.**	Engineering Section Plant Personnel
7. Start emergency communications network, if necessary, based upon the continuing deterioration of the site conditions. Request additional assistance as necessary	Putnam County OEM (304) 586-4920  Putnam County Sheriff Department (304) 586-0256  Winfield Volunteer Fire Department (304) 586-3555
8. If a problem is observed which could lead to failure, proceed immediately to Section D.	Plant Personnel *

\* Appropriate names, addresses, and phone numbers are provided in Appendix C.



The following Advisory will be issued to the agencies listed below by the Amos plant manager or AEPSC. The responsible person notifying the agencies should note the date, time, and name of the contact person.

**Advisory**

The responsible person shall phone or contact each agency listed below in sequence and cover the following items:

Check when completed:

- identify yourself
- refer to the dam by name, location and ID number (on title page)
- advise the person contacted that you are calling as required by the monitoring and emergency action plan
- state the condition of the dam
- state that a standby alert is declared
- advise the person contacted of any requested assistance or action
- answer any questions

Check when notified

Phone

- WVDEP – DWWM Dam Safety (800) 642-3074 (24-hour number)
- Putnam County OEM 911 or (304) 586-4920 or (304) 586-0246 (24-hour number)

**Section D – Evacuation Conditions**

In the event that the condition of the dam has deteriorated to the point where failure is likely to occur, including overtopping of the earthen dam, cracking, piping, spillway failure or obstruction, obvious deformation of the dam, etc the following evacuation procedures should be followed:

**Action**

**Responsibility**

- |  |  |
|--|--|
| 1. Continue constant surveillance of the dam and monitor the conditions affecting the dam. | Plant Personnel, AEPSC, or DWWM Dam Safety Section<br>1-800-642-3074   |
| 2. If evacuation notice is given, proceed immediately with Part II.                        | Plant Personnel, AEPSC, DWWM Dam Safety Section<br>1-800-642-3074, or<br><br>Putnam County OEM<br>(304) 586-4920<br><br>Putnam County Sheriff Department<br>(304) 586-0256<br><br>Winfield Volunteer Fire Department<br>(304) 586-3555 |

Refer to Appendix C for a complete listing of all emergency contacts associated with Putnam County.

## Part II – Emergency Action and Evacuation Plan

### Section A – Notification of Agencies

<u>Action</u>	<u>Responsibility</u>
1. Issue Notification as per the chart in Appendix C.	Team Leader, AEPSC, or DWWM Dam Safety
2. Notify agencies not on-site using the checklists below	Team Leader

#### Notification:

"This is (Name) of (Company) notifying you that failure of the Amos Plant Bottom Ash Complex Dam is imminent/ has occurred. Please take emergency action to evacuate downstream residents."

The responsible person notifying the agencies listed on the notification chart should note the date and time of such notification.

#### Check when notified:

DWWM Dam Safety Section

Putnam County OEM

#### Phone

1-800-642-3074

911 or (304) 586-4920  
or (304) 586-0246

### Section B – Evacuation Notification of Downstream Persons

**In accordance with WV Code 22-14-10, it is the responsibility of the dam owner to notify downstream persons, if county emergency authorities are not available or are unable to notify downstream persons.**

There are no structures located within the anticipated inundation zone. No evacuations are required as part of this plan. The inundated area is depicted on Figure 2 (Appendix D).

Note to evacuating authorities: No person may be ordered to leave or to be physically removed from the evacuation area against their will. Notification to persons and providing of assistance to persons in the evacuation area should fulfill agency responsibility under this section of the plan.

In the event that an evacuation is necessary, all willing people inhabiting structures within the "Evacuation Area" as shown on the Evacuation Notification Map will be evacuated to a secure location in coordination with the Putnam County Office of Emergency Management (OEM). Initially those affected persons will be evacuated to the parking lot off main plant entrance near the P100 building close to and away from the dam location. Other evacuation meeting areas could be used as approved by the Putnam County OEM.

**Action**

**Responsibility**

- |  |  |
|--|--|
| 1. Notification of downstream persons. Plant personnel will notify such residents by phone and in person to initiate the evacuation process.                                     | Plant Personnel, Putnam County OEM, Putnam County Sheriff, and State Police                    |
| 2. Contact and transport downstream residents to point(s) of safety with priority to the infirm or disabled. The Amos plant training center is considered a point of safety.     | Plant Personnel, Putnam County OEM, Putnam County Sheriff, and State Police                    |
| 3. Establish a command post at the Amos Plant Training Center suggested to direct emergency operations, organize recovery effects, and direct officials of cooperating agencies. | County OEM Director and executed by local officers   |
| 4. Notify American Red Cross, or agencies in charge of evacuation centers, including food and medical facilities. Handle inquiries on status of evacuees.                        | Planned by Putnam County OEM   |
| 5. Police security of area to maintain or initiate alternate vehicular traffic and to prevent looting.   | Ranking Local Law Enforcement Officers   |
| 6. Establish roadblocks to prevent unauthorized entry.   | Planned by Putnam County OEM Director and Executed by Local Officers                           |
| 7. Locate additional or alternate evacuation centers, as needed.   | Planned by the American Red Cross or Putnam County OEM Director and Executed by Local Officers |
| 8. Notification of utilities.  | Plant Personnel  |

\* Appropriate names, addresses, and phone numbers are provided in Appendix C.

**Section C – Evacuation Notification Map**

Not applicable. No non AEP structures are located within inundation area (Appendix D).

**Part III – Post Evacuation Notification Action**

**Section A – No Failure of Dam**

Should no failure occur:

**Action**

- 1. Cancel evacuation notification.

**Responsibility**

DWWM Dam Safety Section  
 1-800-642-3074

**Check when notified:**

- \_\_\_ Putnam County Office of Emergency Management
- \_\_\_ DWWM Dam Safety Section (if not on-site)

**Phone**

911 or (304) 586-4920  
 1-800-642-3074

**Section B – Failure of Dam**

Should failure occur:

**Action**

- 1. Notify agencies according to checklist below:

**Responsibility**

**Check when notified:**

- \_\_\_ Putnam County Office of Emergency Management
- \_\_\_ DWWM Dam Safety Section (if not on-site)

**Phone**

(304) 586-4920  
 1-800-642-3074

- 2. Evacuation or assistance to persons stranded in homes due to highway/bridge washout.
- 3. Search and rescue.

Putnam County OEM \*  
 (304) 586-4920

Putnam County OEM \*  
 (304) 586-4920

Putnam County Sheriff Department  
 (304) 586-0256

Amos Plant Personnel

- 4. Cleanup crews and equipment

Putnam County OEM \*  
 (304) 586-4920

Putnam County Sheriff Department  
 (304) 586-0256  
 Amos Plant Personnel

\* Appropriate names, addresses, and phone numbers are provided in Appendix C.

# Part IV - Administrative and Record Keeping


## Section A - Signature and Distribution List

### SIGNATURE:

(Note to Preparer- The signature page of the draft plan must be signed by the dam owner/preparer and the appropriate County Office of Emergency Management Director(s) prior to submittal to Dam Safety for review and potential approval. If more than one County OEM is involved with the MEAP, additional signature statements must be added.)


### County Office of Emergency Management:

As the Director of the Putnam County Office of Emergency Management (OEM), I hereby certify that I have reviewed this Monitoring and Emergency Action Plan (MEAP) and agree with the actions and responsibilities assigned to this office within this MEAP. It is noted that designated response activities may be altered during an actual event based on consideration of other emergency concerns and relative priorities.

NAME	TITLE	DATE
 Mikyle White	Director of Putnam County OEM	10/13/2023

### Responsible Person for Distribution of the Monitoring & Emergency Action Plan:

The undersigned states he/she will distribute a copy of the Monitoring and Emergency Action Plan for the John Amos Plant Bottom Ash Pond #1A Dam within fifteen days after receipt of DWWM Dam Safety Section approval to the persons named in the Distribution List below:

NAME	TITLE	DATE
 Brett Guthrie	Environmental and Laboratory Supervisor (dam owner or NRCS sponsor)	10-13-2023





## CCR Emergency Action Plan Annual Meeting Documentation

Use this form to document the CCR Rule required annual face to face meeting.

Meeting was held to discuss the Emergency Action Plan for the following CCR unit(s):

**John Amos Plant (AEP) Bottom Ash Complex ID#07918**

Plant Personnel conducting the meeting:

**Derrick Brumfield, Brett Guthrie**

Date: 10-13-23

Time Held: 0900

Attending Organization: Putnam Co. 911 / Emergency Management

Print Name: Mikyle White

Sign: Mikyle White

Print Name: Noah Alvis

Sign: Noah Alvis

Print Name: \_\_\_\_\_

Sign: \_\_\_\_\_

Attending Organization: AEP John Amos Power Plant

Print Name: Derrick Brumfield

Sign: Derrick Brumfield

Print Name: \_\_\_\_\_

Sign: \_\_\_\_\_

Print Name: \_\_\_\_\_

Sign: \_\_\_\_\_

Attending Organization: \_\_\_\_\_

Print Name: \_\_\_\_\_

Sign: \_\_\_\_\_

Print Name: \_\_\_\_\_

Sign: \_\_\_\_\_

Print Name: \_\_\_\_\_

Sign: \_\_\_\_\_

Attending Organization: \_\_\_\_\_

Print Name: \_\_\_\_\_

Sign: \_\_\_\_\_

Print Name: \_\_\_\_\_

Sign: \_\_\_\_\_

Print Name: \_\_\_\_\_

Sign: \_\_\_\_\_


Use multiple pages to document additional organizations or attendees.



**Section A – Signature and Distribution List (Continued).**

**Signature:**

The undersigned states he/she will distribute a copy of the Monitoring and Emergency Action Plan for the John E. Amos Plant Bottom Ash Complex within fifteen days after receipt of DWWM Dam Safety Section approval to the persons named in the Distribution List below:

<b><u>Name</u></b>	<b><u>Title</u></b>	<b><u>Date</u></b>
 (Brett Guthrie)	Environmental & Lab Supervisor	10-13-2023

**Distribution:**

Names and addresses of all persons or agencies retaining a copy of the plan:

<b><u>Name</u></b>	<b><u>Complete Mailing Address</u></b>
Bryan Brunton	1 Riverside Plaza Columbus, OH 43215 (614) 716-3090
Brian Palmer	1 Riverside Plaza Columbus, OH 43215 (614) 716-3382
Paul Massie	John Amos Power Plant 1530 Winfield Road Winfield, WV 25213 (304) 759-3200
Derrick Brumfield	John Amos Power Plant 1530 Winfield Road Winfield, WV 25213 (304) 759-2795
Jeff Davis	John Amos Power Plant 1530 Winfield Road Winfield, WV 25213 (304) 759-3222
Brett Guthrie	John Amos Power Plant 1530 Winfield Road Winfield, WV 25213 (304) 759-2799



**Complete Mailing List**

**Name**

Jeff Carpenter	John Amos Power Plant 1530 Winfield Road Winfield, WV 25213 (304) 759-3642
Jamie Prowse	John Amos Power Plant 1530 Winfield Road Winfield, WV 25213 (304) 759-3224
Nate Ball	John Amos Power Plant 1530 Winfield Road Winfield, WV 25213 (304) 759-3274
Bud Hampton	John Amos Power Plant 1530 Winfield Road Winfield, WV 25213 (304) 759-3227
Jon Webster	APCO External Affairs 404 29 <sup>th</sup> Street W Charleston, WV 25387 (304) 746-2761
Aaron P. Tonkery	DEP Division of Water and Waste Management EE/Dam Safety Section 2031 Pleasant Valley Rd. Fairmont, WV 26554 (304) 368-3955 ext. 1022442034
Mikyle White	Putnam County Office of Emergency Management 100 Emergency Lane Winfield, WV 25213 (304) 586-4920
Bobby Eggleton, Sheriff	Putnam County Sheriff's Office 9 Courthouse Street Winfield, WV 25213 (304) 586-0256
West Virginia State Police Attachment Commander	258 Courthouse Drive, Suite 10 Winfield, WV 25213 (304) 586-2000
Winfield Volunteer Fire Department	45 Main Street Winfield, WV 25213



<u>Name</u>	<u>Complete Mailing Address</u>
Raynell Napier U.S. Army Corps of Engineers Huntington District	502 8 <sup>th</sup> Street Huntington, WV 25701 (304) 399-6997
American Red Cross	113 Lakeview Drive Charleston, WV 25313 (304) 340-3650
West Virginia Emergency Management Division	1700 MacCorkle Ave 6 <sup>th</sup> Floor Charleston, WV (304) 558-5380

**Section B – Inspection Record**

<b>Date Inspected</b>	<b>Inspector</b>	<b>Comments</b>
October 3, 2017	J.T. Massey-Norton AEP Sn Hydrogeologist	The impoundment is functioning as intended with no signs of potential structural weakness or other conditions that could potentially disrupt the safe operation of the impoundment.
July 6, 2018	J.T. Massey-Norton AEP Sn Hydrogeologist	The impoundment is functioning as intended with no signs of potential structural weakness or other conditions that could potentially disrupt the safe operation of the impoundment.
May 16, 2019	J.T. Massey-Norton AEP Sn Hydrogeologist	The impoundment is functioning as intended with no signs of potential structural weakness or other conditions that could potentially disrupt the safe operation of the impoundment.
August 13, 2020	Brian G. Palmer AEP Geotechnical Engineer	The impoundment is functioning as intended with no signs of potential structural weakness or other conditions that could potentially disrupt the safe operation of the impoundment.
October 21, 2021	Brian G. Palmer AEP Geotechnical Engineer	The impoundment is functioning as intended with no signs of potential structural weakness or other conditions that could potentially disrupt the safe operation of the impoundment.
October 25, 2022	Brian G. Palmer AEP Geotechnical Engineer	The impoundment is functioning as intended with no signs of potential structural weakness or other conditions that could potentially disrupt the safe operation of the impoundment.




**APPENDIX A**  
**EAP Training Record**

### EAP Training Record Form

Use this form to record training sessions. File the completed form in the EAP. A thorough review of all items in the EAP should be discussed during training. Appropriate employees and EAP team members should attend the training session, annually or participate in a simulated exercise.	
TRAINING LOCATION: John E Amos Plant & AEP On-line training ____	
DATE: <u>10/25/22</u> INSTRUCTOR: Brian Palmer PG _____	
<b>CLASS SIGN-IN</b>	
Training Date: October 25,2022	Scott Sterling
Training Date: October 25,2022	Derrick Brumfield
Training Date: October 25,2022	Jack Smith
Training Date: October 25,2022	Mark Darst
Training Date: October 25,2022	John Moore
Summary and Commentary: Provided training to be able to identify major dam components of specific to the fly ash dam and reviewed various potential signs of structural deficiencies pertinent to the dam.	

**APPENDIX B  
UNUSUAL OR EMERGENCY EVENT LOG**

Monitor or responsible person to enter the following, as events occur:

Dam Name: John E. Amos Plant Bottom Ash Complex

When and how was the event detected?

---

General description of the emergency situation:

---

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**ACTIONS AND EVENT PROGRESSION**

Date	Time	Action/Event Progression	Taken by

Report prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

**APPENDIX C  
EMERGENCY CONTACTS**

**Notification List – Responsible Individuals  
 (Plant and AEPSC) and List of Local Utilities  
 John E. Amos Plant Bottom Ash Pond Complex Dam #07918**

<b>John E. Amos Plant</b>	<b>Plant Address</b>	<b>Plant Telephone No.</b>
	1530 Winfield Road Winfield, WV 25213	(304) 759-3103
	or	<b>Audinet:</b>
	PO Box 4000 St. Albans, WV 25177	262-3103

**Amos Plant Contacts:**

Brett Guthrie	304-759-2799, Cell: 681-280-2442
Derrick Brumfield	304-759-2795, Cell: 681-317-4406
Paul Massie	304-759-3200, Cell: 681-313-1640

**Team Leaders:**

Nate Ball	Team 1	304-759-3274
Bud Hampton	Team 2	304-759-3227
Jeff Carpenter	Team 3	304-759-3642
Jamie Prowse	Team 4	304-759-3224

**AEPSC Contacts:**

	<b>Work</b>	<b>Cell</b>
Bryan Brunton, Geotechnical Engineering Manager	614-716-2917	614-202-7513
Brian Palmer, Geotechnical Services	614-716-3382	614-542-9701

**Law Enforcement Contacts**

State Police .....	304-746-2100
Putnam County Sheriff .....	304-586-0246
Kanawha County Sheriff.....	304-776-7564
Winfield Police Department .....	304-586-9200
St. Albans Police Department .....	304-727-2251
Eleanor Police Department .....	304-586-1200
Nitro Police Department .....	304-755-0702

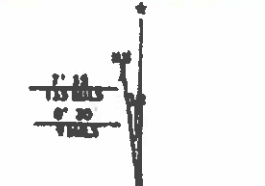
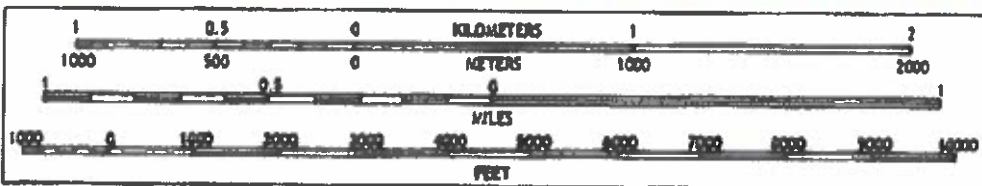
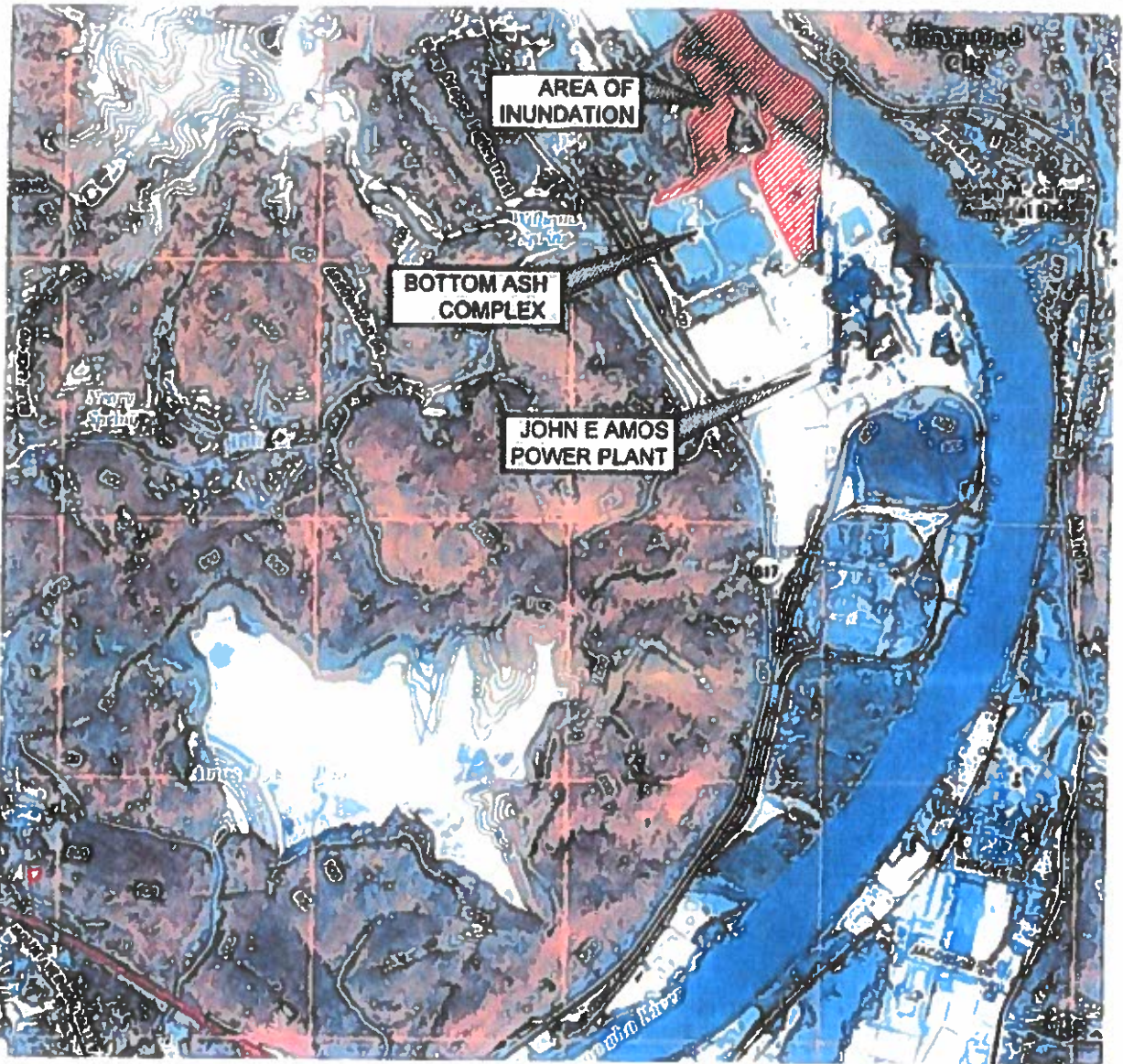
### Emergency Contacts

Putnam County Health Department .....	304-757-2541
CAMC Medical Center.....	304-388-5432
National Response Center (chem. oil spills, chem. & biological terrorism) .....	1-800-424-8802
State Emergency Spill Notification .....	1-800-642-3074
Hazardous Materials Response .....	304-586-0246
Winfield Fire Department.....	304-586-3555
Nitro Fire Department.....	304-755-1431
Teays Valley Volunteer Fire Department .....	304-757-7075
Appalachian Power Company .....	304-722-1343
CSX Technology .....	304-727-4783
Cabot Oil and Gas.....	304-347-1600
Columbia Gas Transmission .....	304-357-2000
Ferrell Gas.....	304-453-6343
Mountaineer Gas .....	304-768-5819
Penn Virginia Oil & Gas.....	304-294-6767
Tennessee Gas Pipeline .....	304-548-6191
Union Oil & Natural Gas .....	304-586-2451
South Putnam PSD .....	304-757-6509
Verizon .....	800-275-2355
WV Department of Highways .....	304-558-3001

**APPENDIX D  
INUNDATION MAP**



FIGURE 2



SAINT ALBANS, WV 7.5 MINUTE SERIES UPDATED 2016 ID#07918

UTM GRID AND 83N MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

THIS DRAWING IS CLASSIFIED AS

**AEP PUBLIC**

APPALACHIAN POWER COMPANY

**AMOS PLANT**

UNIT  
0

DRAWING NUMBER

**INUNDATION MAP**

REV  
0

SCALE 1"=2000

**CIVIL ENGINEERING**

OR

CH

SUP

ENG

DATE 4/13/17

REFERENCE AEP'S CORPORATE INFORMATION SECURITY POLICY

SCARY

WEST VIRGINIA

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**BOTTOM ASH COMPLEX  
INUNDATION MAP  
PUTNAM COUNTY**



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