

**MONITORING AND EMERGENCY ACTION PLAN
FOR THE
JOHN E. AMOS PLANT FLY ASH DAM
ID # 07911
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



GERS-17-008



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- C: Residences/Businesses within Flood Inundation Area
- D: Evacuation/Flood Inundation Map
- E: Road Block Map
- F: EAP Training Record

Note: The revisions to the November 2023 are as follows:

- The revision reflects changes in Part IV plant contacts:
- Relocation of 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

Introduction

Purpose of Plan

The purpose of this document is to provide for monitoring of the John E. Amos Plant Fly Ash Dam under various conditions so that an emergency situation at the dam 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 Fly Ash Dam is an earthen structure 245 feet high and impounding a maximum volume of fly ash and water of 11,160 acre-feet. The dam has a spillway consisting of a broad crested weir, 30 feet wide, excavated through rock, located at the right abutment (looking downstream). The dam normally has a freeboard (vertical distance in feet between the normal reservoir elevation and the top of the dam) of 10 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 right onto Winfield Road. Travel 0.4 mile and take Teays Valley Road on the right. Continue on Teays Valley Road for 1.3 miles to Bills Creek Road on the right. In 0.1 mile, immediately following the interstate overpass, turn right onto the access road for the dam.

Coordinates for the dam are 38.456496, -81.852246 (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 H).

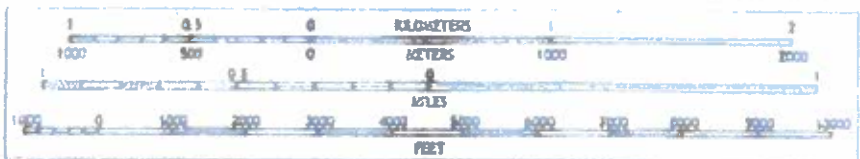
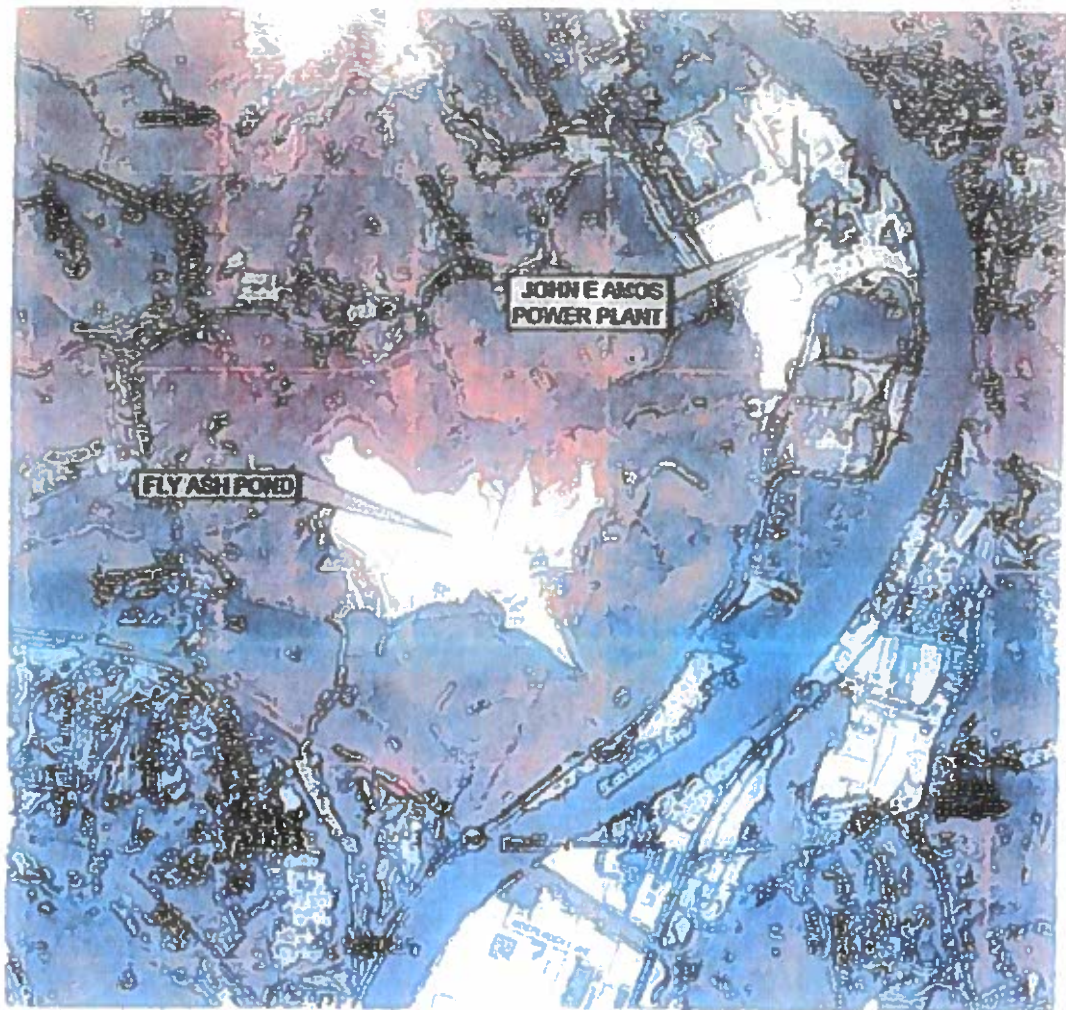
Any changes to the EAP stemming from justified concerns raised by anyone participating in any EAP exercise should be documented and distributed to all holders of the EAP.

Monitoring and Emergency Action Plan. 11/1/2023
American Electric Power, John Amos Plant Fly Ash Dam ID # 07911, Winfield, Putnam County, West Virginia

Location Map



FIGURE 1

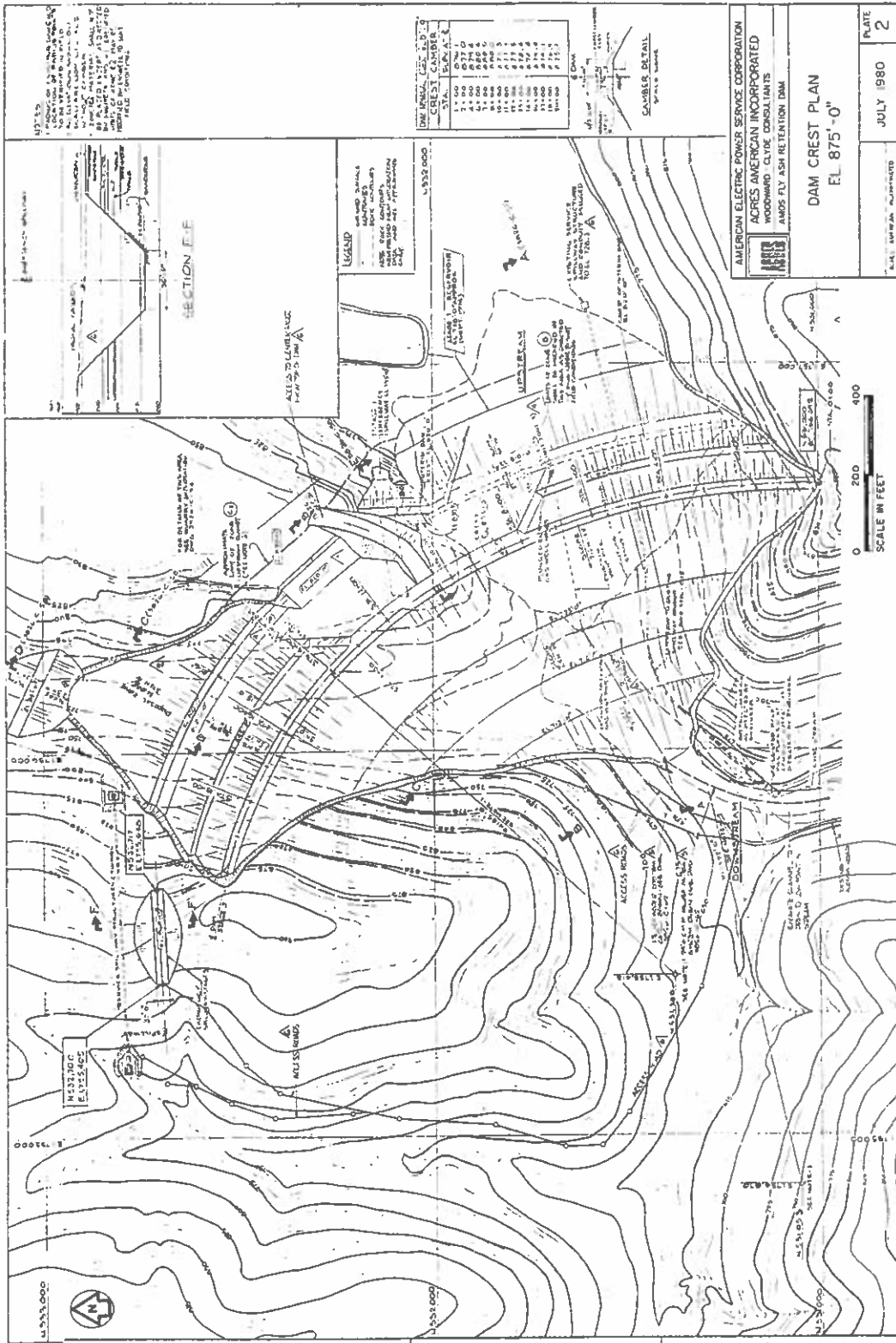


SAINT ALBANS, WV 7 5 MINUTE SERIES UPDATED 2016 ID#07911		<small>FOR REDUCED OR INADEQUATE PRINT RESOLUTION, A COPIED OF SHEET</small>	
<small>THIS DRAWING IS CLASSIFIED AS</small> <p style="text-align: center;">AEP PUBLIC</p>	<small>APPALACHIAN POWER COMPANY</small> <p style="text-align: center;">AMOS PLANT</p>	<small>DATE</small> 0 <small>DRAWN UNDER</small> <p style="text-align: center;">LOCATION MAP</p>	<small>NOV</small> 0
<small>REFERENCE AEP'S CORPORATE INFORMATION RELIABILITY POLICY</small>	<small>SCALE</small> 1"=250' <small>OR</small> <small>CH</small> <small>SLP</small> <small>ERC</small> <small>DATE</small> 6/12/11	<p style="text-align: center;">CIVIL ENGINEERING</p>	
<small>THIS DRAWING IS THE PROPERTY OF THE AMERICAN ELECTRIC POWER SERVICE CORP. AND IS LOANED UNDER THE 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 DETERMINED TO BE IN THEIR INTEREST AND IS TO BE RETURNED UPON REQUEST.</small>	<small>STATE</small> WEST VIRGINIA <p style="text-align: center;">FLY ASH POND LOCATION MAP PUTNAM COUNTY</p>	<p style="text-align: center;">AEP SERVICE CORP 1 RIVERSIDE PLAZA COLUMBUS, OH 43215</p>	



Configuration Map

Monitoring and Emergency Action Plan. 11/1/2023
 American Electric Power, John Amos Plant Fly Ash Dam ID # 07911, Winfield, Putnam County, West Virginia



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/Flood Inundation Map

Map provided in Appendix F

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: Unusual or Emergency Event Log
- B: Emergency Contacts
- C: Residences/Businesses within Flood Inundation Area
- D: Evacuation/Flood Inundation Map
- E: Road Block Map
- F: EAP Training Record

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 must 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 [<1 " 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

Action

Responsibility

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

Section B – Adverse Conditions

Items to be inspected during adverse conditions heavy or extended rainfall (>1" 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 B.

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>Action</u>	<u>Responsibility</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 Department (304) 586-0256 or Plant Personnel
5. Evaluate the dam and problem areas for corrective action.	Plant Personnel & AEPSC Geotechnical
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 B.

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

"This is (Name) of (the John E. Amos Plant or American Electric Power Service Corporation) advising you that we are starting constant surveillance of the Amos Plant Fly Ash Dam in accordance with the monitoring and emergency action plan. We are notifying you and (agency) of the following condition of the dam (state condition requiring a Standby Alert). The following actions by your agency (state any required action to be taken) are requested at this time.

<u>Check when notified</u>	<u>Phone</u>
<input type="checkbox"/> WVDEP – DWWM Dam Safety	(800) 642-3074 (24-hour number)
<input type="checkbox"/> 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:

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

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

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 D.	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 Fly Ash 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:

	<u>Phone</u>
<input type="checkbox"/> DWWM Dam Safety Section	1-800-642-3074
<input type="checkbox"/> Putnam County Office of Emergency Management	911 or (304) 586-4920 or (304) 586-0246(24hr number)

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.

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 John E. Amos Plant Visitors Center located adjacent to the Main Gate/Guardhouse, which is located close to and away from the dam location. Other evacuation meeting areas could be used as approved by the Putnam County OEM. Road blocks will be used at the locations shown on the attached map in Appendix E.

<u>Action</u>	<u>Responsibility</u>
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.	Putnam 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 B.

Section C – Evacuation Notification Map

See Evacuation Notification Plan in Appendix C and 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:

Check when notified:

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

Responsibility

Phone

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

2. Evacuation or assistance to persons stranded in homes due to highway/bridge washout.

Putnam County OEM
 (304) 586-4920

3. Search and rescue.

Putnam County OEM
 (304) 586-4920

Putnam County Sheriff Department*

Amos Plant Personnel *

4. Cleanup crews and equipment

Putnam County OEM
 (304) 586-4920

Putnam County Sheriff Department*

Amos Plant Personnel *

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



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.)

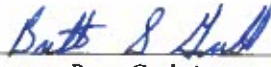
County Office of Emergency Management:

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 Fly Ash 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) Fly Ash Dam ID#07911

Plant Personnel conducting the meeting:

Derrick Brumfield, Brett Guthrie

Date: 10-13-23 Time Held: 0900

Attending Organization: Putnam 911 - EM

Print Name: Mikyle White Sign: [Signature]

Print Name: Noah Alvis Sign: [Signature]

Print Name: _____ Sign: _____

Attending Organization: AEP John Amos Power Plant

Print Name: DERRICK Brumfield Sign: [Signature]

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.



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 th 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 th 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 th floor Charleston, WV 25314 (304) 558-5380

Section B – Inspection Record

Date Inspected	Inspector	Comments
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 30, 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.
June 11, 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.
November 17, 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.

Monitoring and Emergency Action Plan. 11/1/2023
American Electric Power, John Amos Plant Fly Ash Dam ID # 07911, Winfield, Putnam County, West Virginia

**APPENDIX A
UNUSUAL OR EMERGENCY EVENT LOG**

Monitoring and Emergency Action Plan. 11/1/2023
American Electric Power, John Amos Plant Fly Ash Dam ID # 07911, Winfield, Putnam County, West Virginia

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

Dam Name: John E. Amos Plant Fly Ash Dam

When and how was the event detected?

General description of the emergency situation:

ACTIONS AND EVENT PROGRESSION

Date	Time	Action/Event Progression	Taken by

Report prepared by: _____ Date: _____

**APPENDIX B
EMERGENCY CONTACTS**

**Notification List – Responsible Individuals
 (Plant and AEPSC) and List of Local Utilities
 John E. Amos Plant Fly Ash Dam**

John E. Amos Plant	Plant Address	Plant Telephone No.
	1530 Winfield Road Winfield, WV 25213	(304) 759-3103
	or	Audinet:
	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:

	Work	Cell
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 Volunteer Fire Dept	304-586-3555
Nitro Fire Dept	304-755-1431
Teays Valley Volunteer Fire Dept	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 C
RESIDENCES/BUSINESSES WITHIN FLOOD INUNDATION AREA

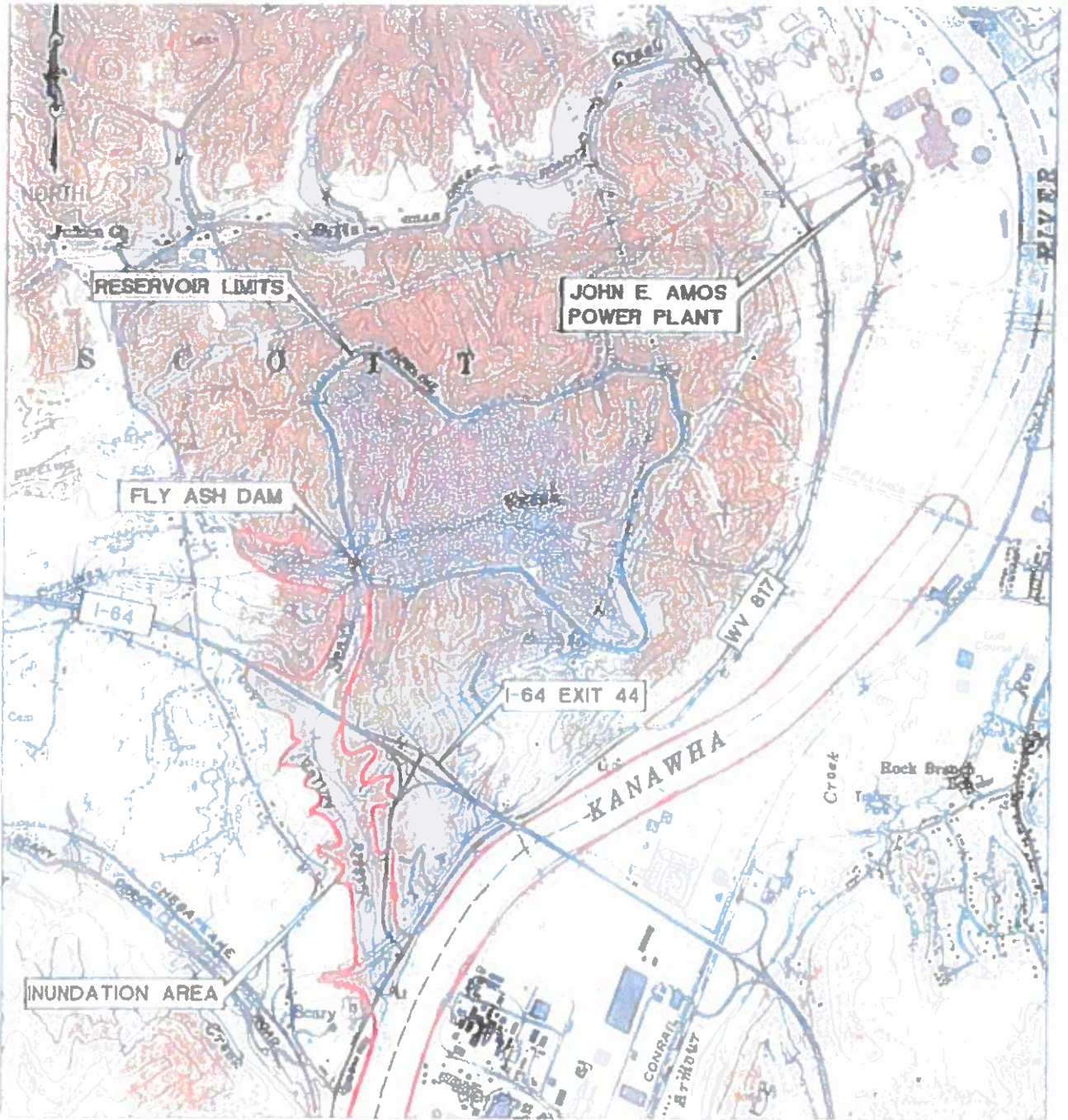
RESIDENCES/BUSINESSES WITHIN FLOOD INUNDATION AREA

Names	Phone #	Map	Parcel
Energy Masters Systems (William Gravely) 5112 Staunton Avenue Charleston, WV 25304	(304) 925-7497	225	84.1
		225	83.1
		225	83.2
		225	85.2
Michael McCallister 4932 Teays Valley Road Scott Depot, WV 25560	(304) 755-6192	225	117.49
WV Department of Highways Highway Conditions/Communications St. Albans, WV 25177	(304) 558-2889 & (304) 722-0600	225	119.2
		225	138
		225	140
		225	141
Plastic Coating Properties 5312 Knootz Dr. Charleston, WV	(304) 755-9151	225	57.1
C&O Railroad Company (CSXT)	1-800-232-0144	225	84.2
		225	118
		225	85.5
		225	84
		225	137
Richard Beckner 109 Spruce Lane Scott Depot, WV 25560	(304) 755-5046	225C	23
Melanie Sayre 114 Spruce Lane Scott Depot, WV 25560	No Listing	225C	24
Michael Oglesby II 112 Spruce Lane Scott Depot, WV 25560	(304) 755-1592	225C	25
Sharon Price 110 Spruce Lane Scott Depot, WV 25560	(304) 759-0285	225C	26
James Keeling 108 Spruce Lane Scott Depot, WV 25560	(304) 755-9393	225C	27
Gerald Gandee 106 Spruce Lane Scott Depot, WV 25560	(304) 755-9821	225C	28
Navarang Pongsugree 104 Spruce Lane Scott Depot, WV 25560	(304) 755-4498	225C	29

Names	Phone #	Map	Parcel
Carol Means 102 Spruce Lane Scott Depot, WV 25560	(304) 757-5229	225C	30
James Siders 100 Spruce Lane Scott Depot, WV 25560	(304) 755-1337	225C 225C	31 32
Christopher Shumaker 16 Pine Ridge Estates Scott Depot, WV 25560	(304) 884-6542	225C	33
Dorothy Kirtley 4922 Teays Valley Road (Pine Ridge Estates Road) Scott Depot, WV 25560	No Listing	225C	46
Curt Voth c/o William Gravely 5112 Staunton Ave. Charleston, WV 25304	(304) 925-7497	225C	83
Browning Properties P.O. Box 542 Teays, WV 25569	(304) 755-7975	225	119
Velear Energy 112 Brooks Street Charleston, WV 25301	(304) 342-2125	225	119.1
CMH Homes Attn: Retail Production Department #1030 P.O. Box 9790 Maryville, TN 37809	1-888-755-0181	225	92.8
Robert Meeks P.O. Box 1046 Hurricane, WV 25526	(304) 562-2315	225	131
Mark Eller 737 Winfield Road St. Albans, WV 25177	(304) 925-0295	225	131.2
John Bennett 620 Bills Creek Road Winfield, WV 25213	(304) 755-0306	215	70.4
Luana Cross 604 Everest Circle St. Albans, WV 25177	No Listing	215	70
Larry Hoylman P.O. Box 1440 St. Albans, WV 25177	(304) 755-1701	225	58.3
Eddie Vanscoy 3761 Teays Valley Road Hurricane, WV 25526	(304) 760-9208	225	58.2
Tate Withrow 4922A Teays Valley Road Scott Depot, WV 25560	(304) 755-7574	225	117.51
Putnam Farm & Land Co. P.O. Box 1440 St. Albans, WV 25177	(304) 755-7701	225	57

Names	Phone #	Map	Parcel
Sue Withrow 4922A Teays Valley Road Scott Depot, WV 25560	(304) 755-4476	225	117.41
Appalachian Power Company P.O. Box 4000 St. Albans, WV 25177	1-800-982-4237	215 215 215	29 70 76
Appalachian Power Company P.O. Box 4000 St. Albans, WV 25177	1-800-982-4237	225 225 225 225	58 10.1 58.4 24.1
State Road Commission of WV Highway Conditions/Communications St. Albans, WV 25177	(304) 722-0600 (304) 558-2889	225 225 225 225 225 225 225 225 225 225	83.7 83.3 120.1 179 180 179 120 178 181 177 176
WV Department of Highways Highway Conditions/Communications St. Albans, WV 25177	(304) 722-0600 (304) 558-2889	225 225 225 225	139 140 138 141

APPENDIX D
EVACUATION / FLOOD INUNDATION MAP



DATE: 11/11/11
 SCALE: 1" = 2000'



**JOHN E. AMOS PLANT
 FLY ASH DAM**

11/11/11

11/11/11



gal consultants

DATE: 11/11/11

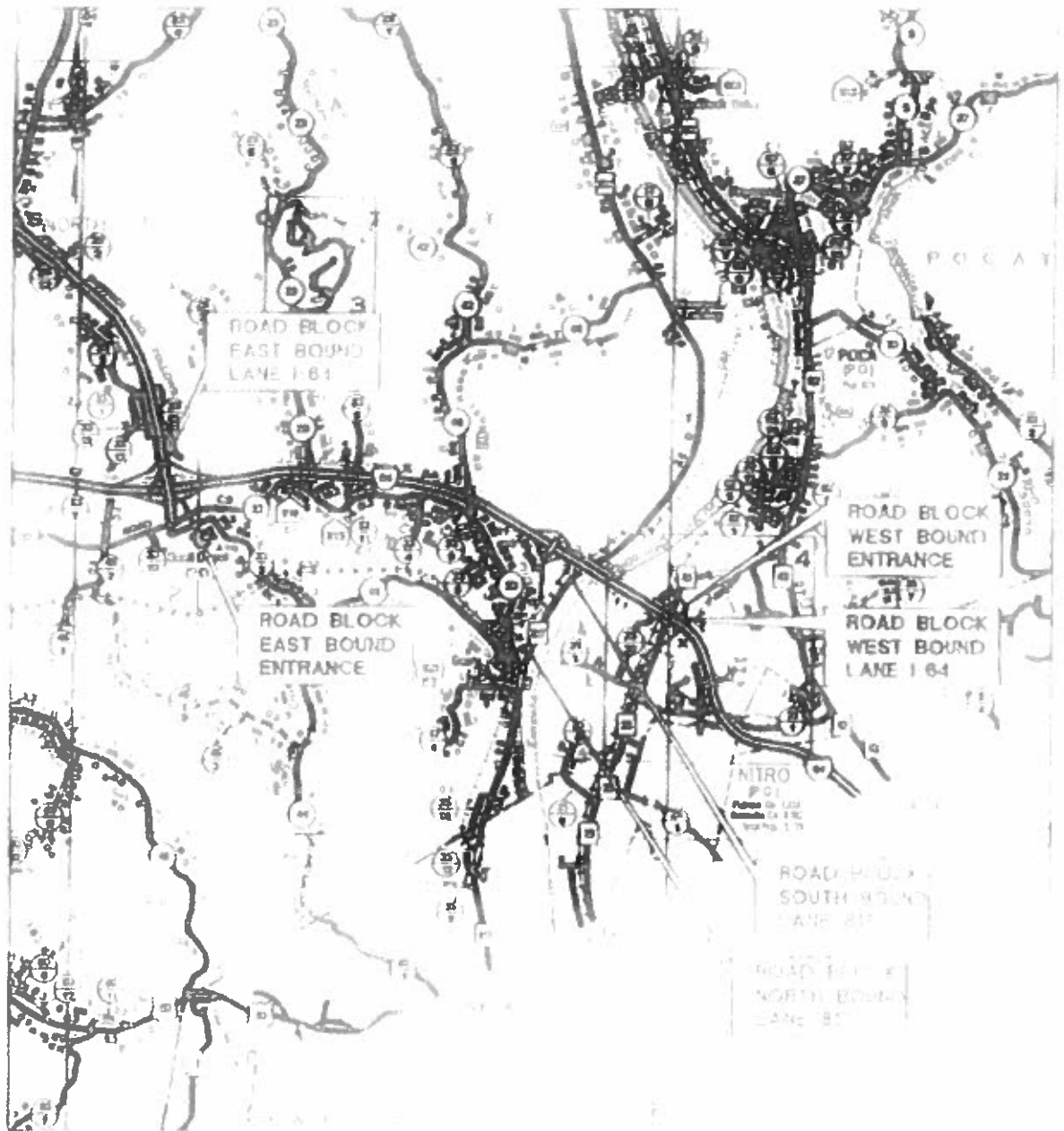
SCALE: 1" = 2000'

D



**APPENDIX E
ROAD BLOCK MAP**



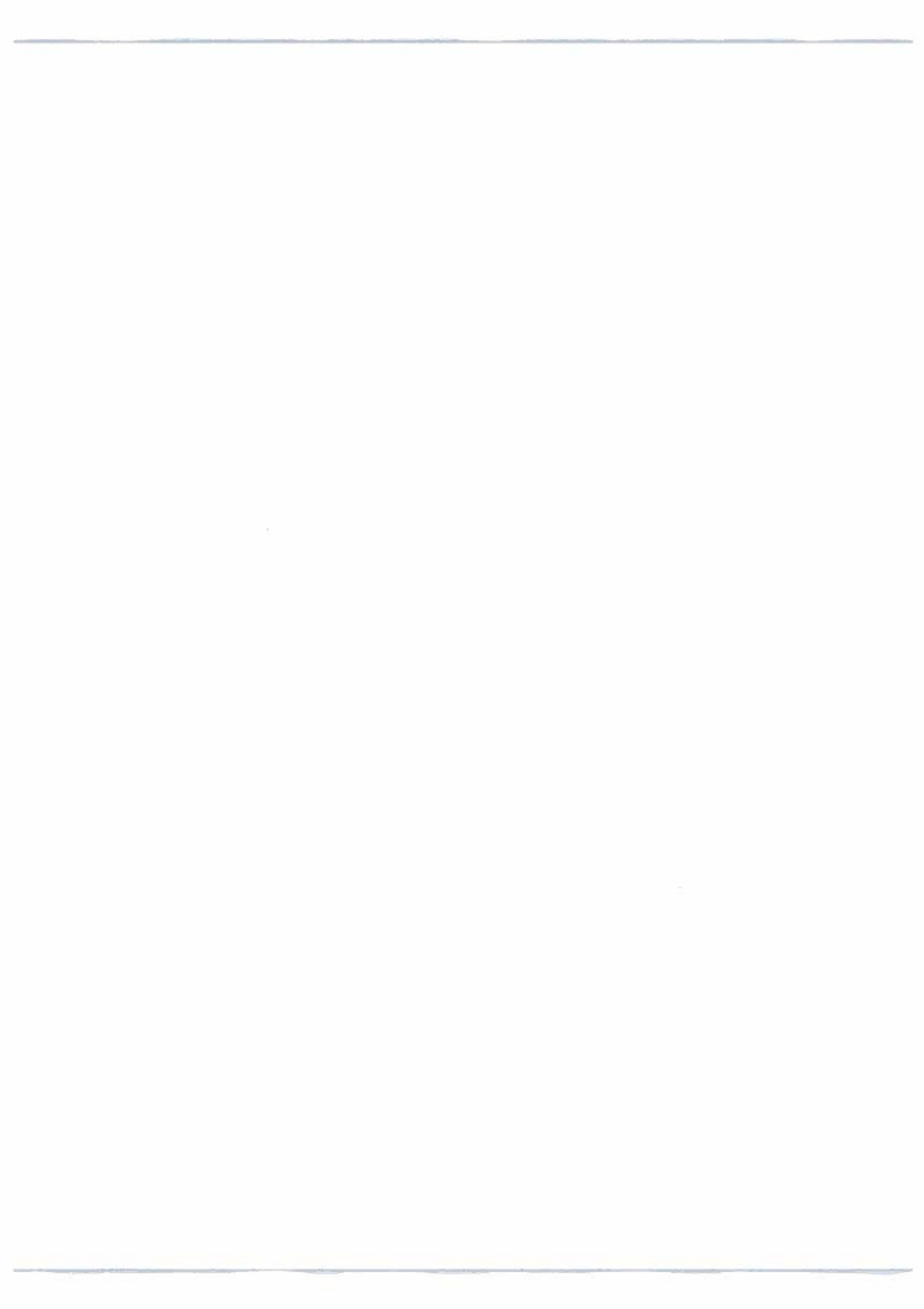


**JOHN E. AMOS PLANT
FLY ASH DAM**



in Feet (Scale 1:1000)





APPENDIX F
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 _____	
CLASS SIGN-IN	
Training Date: October 25, 2022	Derrick Brumfield
Training Date: October 25, 2022	Scott Sterling
Training Date: November 10, 2020	Jack Smith
Training Date: November 10, 2020	John Moore
Training Date: November 10, 2020	Mark Darst
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.	

