

Closure Completion Notification for Closure by Removal

January 15, 2025

Closure Completion Notification

Mitchell Plant

Bottom Ash Pond

On December 24, 2024, the Mitchell Plant Bottom Ash Pond 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 (EAP)
- 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 AEP Mitchell Bottom Ash Pond has been closed in accordance with the most recent written closure plan specified by 40 CFR 257.102(b) and the requirements of 40 CFR 257.102.

David Anthony Miller

Printed Name of Licensed Professional Engineer

David Anthony Miller

Signature



22663

License Number

West Virginia

Licensing State

01.15.2025

Date

VERDANTAS CERTIFICATION

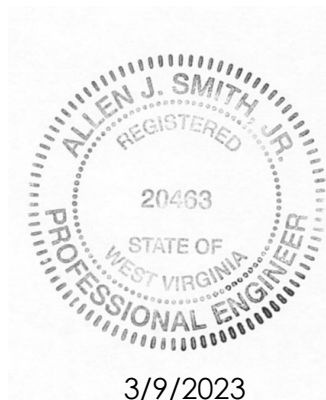
Based on the construction observations performed by Verdantas representatives, I hereby certify that the Bottom Ash Pond West Basin at the Mitchell Plant in Moundsville, West Virginia, as shown on the record drawing located in Appendix C, has achieved removal of all CCR material and soil with constituent concentrations above relevant background standards (i.e., closed by removal) in substantial compliance with the Construction Quality Assurance (CQA) Plan for Pond Closure and Repurposing, the Construction Drawings for the CCR/ELG closure by removal project, Bottom Ash Pond Closure and Repurposing Contract as provided by Worley (December 3, 2021) and as per 40 CFR 257.102, and as clarified herein. The groundwater monitoring and compliance aspect of CCR Unit closure by removal criteria, as found at 40 CFR 257.102(c), will be certified under a separate report. The Contractor (R.B. Jergens) obtained the survey data used to develop the record drawing. R.B. Jergens verified that the elevations met the closure requirements, and Verdantas also reviewed the survey data.



Chris Goddard
Quality Assurance Officer/CQA Manager



Allen J. Smith Jr., PE
Certifying Engineer
WV PE# 020463



VERDANTAS CERTIFICATION

Based on the construction observations with associated photographic records, testing performed by Verdantas representatives in the field and documented in this report, I hereby certify to the best of my knowledge and to the extent of available information that the East Wastewater Pond at the Mitchell Plant in Moundsville, West Virginia, as shown on the record drawing located in Appendix B, has achieved removal of all CCR material and one foot (minimum) of underlying native soil in substantial compliance with the Construction Quality Assurance (CQA) Plan for Pond Closure and Repurposing, the Construction Drawings for the CCR/ELG Project, the Bottom Ash Pond Closure and Repurposing Contract as provided by Worley (December 3, 2021), per 40 CFR 257.102 and as clarified herein. The groundwater monitoring and compliance aspect of CCR Unit closure by removal criteria, as found at 40 CFR 257.102(c), will be certified under a separate report. This certification is strictly limited to CQA observations and associated field testing and does not include an engineering analysis of previously approved and permitted engineering designs or subsequent approved design/field changes. The Contractor (R.B. Jergens) obtained the survey data used to develop the attached record drawing. R.B. Jergens verified that the elevations met the construction requirements, and Verdantas also reviewed the survey data.



Chris Goddard
Quality Assurance Officer/CQA Manager



Allen J. Smith Jr., PE
Certifying Engineer
WV PE# 020463



4/4/2024





MONITORING AND EMERGENCY ACTION PLAN

for the

**Mitchell Bottom Ash Complex
Kentucky Power
Mitchell Plant**

WV ID #05108

Located in


Cresap, Marshall County, West Virginia

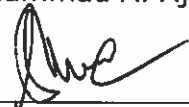
**American Electric Power Service Corporation
1 Riverside Plaza
Columbus, OH 43215**


Copy Number: 1
Issue Date: 12-13-23

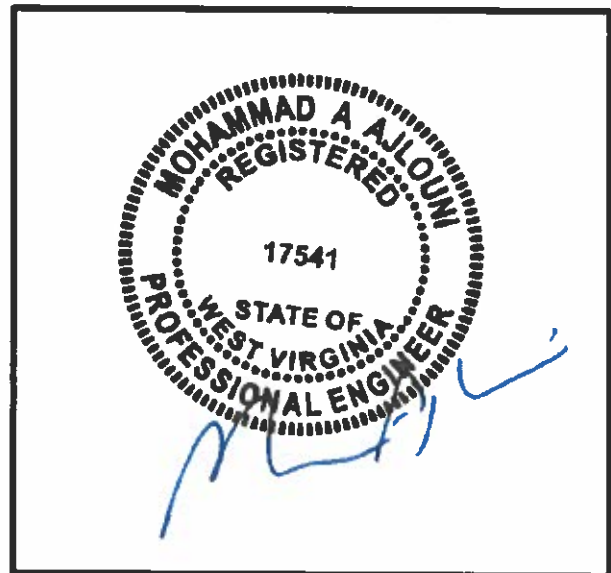
EMERGENCY ACTION PLAN
CFR 257.73 (a)(3)
BOTTOM ASH PONDS COMPLEX
MITCHELL PLANT

GERS-23-046

PREPARED BY  **DATE** 11/19/2023
Mohammad A. Ajlouni, Ph.D., P.E.

REVIEWED BY  **DATE** 11-21-2023
Shahriyar S. Baig, P.E.

APPROVED BY  **DATE** 11/21/2023
Bryan W. Brunton, 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)

INTRODUCTION

Purpose of Plan:

The purpose of this document is to provide for monitoring of the Mitchell Bottom Ash Complex under various conditions so that an emergency situation at the pond 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 pond failure.

Brief Overview of Pond and Observed Problems:

The Mitchell Bottom Ash Ponds Complex is an ash disposal facility located adjacent to Kentucky Power's Mitchell Power Plant. The ponds are south of the plant, between Highway 2 and the Ohio River. The ponds are just north of the mouth of Fish Creek. Fish Creek empties into the Ohio River at river milepost 113.75. The pond complex consists of two ponds, the bottom ash pond and the clear water pond. The ponds are partially incised with constructed dikes present as well. The bottom ash pond has a minimum top of dike elevation of about 690 feet (NGVD) and a bottom elevation of about 660 feet. The pool level in the bottom ash pond is about 676 feet. The constructed dikes of the bottom ash pond are about 20 to 28 feet high along the north, west, and south sides. The east side of the bottom ash pond dike is about 10 feet high. The bottom ash pond is rectangular in shape with dimensions of about 700 feet by 600 feet at the top of the dike. The total storage capacity from the bottom of the pond to the top of the dike is about 252 ac-ft. The overflow structure is a cast-in-place concrete shaft and is equipped with removable stop logs. The stop logs allow for a variable pool elevation. However, the pool is typically maintained at elevation 676 feet (NGVD).

The clear water pond has a minimum top of dike elevation of about 675 feet and a bottom elevation of about 645 feet. The dike portions of the clear water pond are about 5 to 12 feet high, with the east side being fully incised below grade. The pool level in the clear water pond is about 662 feet. The clear water pond is rectangular in shape with dimensions of about 500 feet by 350 feet at the top of the dike. The total storage capacity from the bottom of the pond to the top of the dike is about 97 ac-ft. The overflow is controlled by a fixed weir that is set at elevation 662 feet (NGVD).

The Mitchell Power Plant is located along the Ohio River in Marshall County, West Virginia, approximately 7 miles south of Moundsville, West Virginia. Nearby towns are Cresap, Graysville, and Woodlands. Five miles below the plants are the towns of Salem and Clarington, Ohio and Natrium, West Virginia.

A plan view of the pond and its appurtenances is provided following page IV.

There are no known problems concerning the ponds.

Driving Directions to Pond: The ponds are located adjacent to Highway 2 (west side), approximately 7 miles south of Moundsville, West Virginia.

How to Use This Document:

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

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

A review of and training for the Mitchell Bottom Ash Complex EAP will occur on an annual basis. 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. Local County Emergency Management Agency/first responders shall be invited to attend the annual training for a face-to-face meeting and to have a general sense of familiarity with the dam site. The plant manager will be responsible for updating and, if revisions are necessary, distributing copies of the revisions. Copies of all updated or revised pages will be provided to all holders of the EAP. An EAP Training Record Form should be used to document each training session it is located in Appendix F.

MAP (PLAN VIEW) OF POND

A plan view map of the facility is included in the map pocket following this page.



SUMMARY AND INDEX

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Part I - Monitoring Plan and Inspection Schedule

HOMELAND SECURITY. In the event of sabotage or security breach that may lead to failure of the pond, the 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:

Normal conditions are defined as Weather conditions that would not typically stress the pond. This would include normal weather patterns and normal rainfall not exceeding occurrences of 3.51 inches of rain over a 6 hour period (50-year, 6-hour) or 6.67 inches over a 7-day period (50-year, 7-day).

Table No. 1, Condition Response Table, found at the end of the Part I section of this document, page 5, is to be used when performing pond monitoring and inspection under normal conditions. The table provides descriptions of the performance level of the pond, the undesirable features that the pond may exhibit, and the action to be taken by the inspector.

Monitoring Plan and Inspection Schedule for Normal Conditions

Action *	Responsibility
1. Regular inspection. Monthly pond inspection checklist is provided in Appendix E of this document.	Plant Personnel*
2. If an "Unusual Condition with Minimal Potential for Pond Failure" is found, contact AEP'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 Pond Failure is Developing", proceed to Part I, Section C-Standby Alert.	Plant Personnel*
4. If an "Emergency- Failure is Imminent or Has Occurred" feature is observed, proceed to Part I, Section D- Evacuation Conditions.	Plant Personnel*
5. Annual geotechnical safety inspection	Professional Engineer

* The names of plant personnel performing inspections, monitoring conditions, filling out checklists and making decisions relating to the pond are shown on Appendix B.

Section B - Adverse Conditions:

Adverse Conditions are defined as: Weather conditions that could be stressful to the pond. This would include rainfall occurrences equal to or greater than 3.51 inches of rain over a 6 hour period (50-year, 6-hour) or 6.67 inches over a 7-day period (50-year, 7-day).

Table No. 1, Condition Response Table, found at the end of the Part I section of this document, page 5, is to be used when performing pond monitoring and inspection under adverse conditions. The table provides descriptions of the performance level of the pond, the undesirable features that the pond may exhibit, and the action to be taken by the inspector.

If no potentially hazardous conditions are identified and adverse conditions no longer exist, then resume routine inspection schedule as outlined in Section A - Normal Conditions.

EARTHQUAKE Occurrence of an earthquake of sufficient magnitude to cause structural damage to buildings or property in the general area of the pond shall be considered an "adverse condition." Damage from an earthquake may be internal to the pond and problems may not appear for days or weeks after the event. The pond 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 pond and in the natural ground areas downstream and at the abutments of the pond.

Action	Responsibility
1. Inspect pond and appurtenances in accordance with the checklist (Appendix E) as a result of adverse conditions or after the installation of stop logs. This should be accomplished 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 conditions are observed that are classified as "Unusual Condition- Minimal Potential for Pond Failure", contact, AEP's Geotechnical Engineering Section, report on checklist, increase inspection frequency, and monitor conditions as recommended by the Geotechnical Engineering Section.	Plant Personnel*
4. If conditions are observed that are classified as "Serious but, Non-Emergency- Potential Pond Failure is Developing", proceed to Part I, Section C - Standby Alert.	Plant Personnel*
5. If conditions are observed are classified as "Emergency - Failure is imminent or Has Occurred" proceed to Part I, Section D - Evacuation Conditions.	Plant Personnel*

* The names of plant personnel performing inspections, monitoring conditions, filling out checklists and making decisions relating to the pond are shown on Appendix B.

Section C - Standby Alert:

Standby Alert conditions are defined as: Specific problems have been identified at the pond, which could lead to an evacuation condition. Such malfunctions or undesirable features are summarized in Table 1, Condition Response Table, found at the end of the Part I section of this document, page 5, as "SERIOUS, BUT NON-EMERGENCY - POTENTIAL POND FAILURE SITUATION IS DEVELOPING."

Action	Responsibility
1. Notify Team Leader and begin constant surveillance of pond. Read all field instrumentation daily and Report on inspection checklist (Appendix E).	Plant Personnel *
2. Standby Alert shall be issued in accordance with the Standby Alert notification chart in Appendix C.	Team Leader *
3. Respond to notification of Standby Alert.	DWWM - Dam Safety Section, Marshall County Office of Emergency Management (OEM)
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 pond pool elevation.	Marshall Co. OEM (304-843-1500) or Marshall Co. Sheriff (304-843-1500) or Plant Personnel
5. Evaluation of the pond and problem areas for corrective action.	Plant Personnel, Geotechnical Engineering Section and/or DWWM-Dam Safety Section
6. Commence corrective/emergency repairs, if possible	Plant Personnel or Contractor

* The names of plant personnel and team leaders are shown on Appendix B

Standby Alert Notifications: 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 pond by name and location (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 pond
- state that a standby alert is declared
- advise the person contacted of any requested assistance or action
- answer any questions

Check when notified:

Phone

- DWWM Dam Safety Section 1-800-642-3074
- Marshall County Office of Emergency Management 911 or 304-845-1920

Section D - Evacuation Conditions:

Evacuation Conditions are defined as: the condition of the pond has deteriorated to the point where failure is likely to occur. Such malfunctions or undesirable features are summarized in Table 1, Condition Response Table, found at the end of the Part I section of this document; page 5, as “Emergency-Failure is Imminent or Has Occurred”.

In some instances it may be determined that evacuation conditions have been met when there are conditions that are considered as “Serious, but Non-Emergency, Potential Pond Failure Exists”.

Action	Responsibility
1. Continue constant surveillance of the pond and monitor the conditions affecting the pond.	Plant Personnel, AEP Geotechnical Engineering and/or the WVDEP-DWWM -Dam Safety
2. If evacuation is deemed appropriate or necessary proceed immediately with Part II, section of this document.	Team Leader, Mitchell Plant Management, AEP Geotechnical Engineering and/or WVDEP-DWWM Dam Safety Section

**Part I – Monitoring Plan and Inspection Schedule
CONDITION RESPONSE TABLE**

PERFORMANCE LEVEL OF POND	MALFUNCTIONS OR UNDESIRABLE FEATURES	ACTIONS TO BE TAKEN BY FIELD PERSONNEL (In Order Indicated)
<p>NON-EMERGENCY MINOR DEFICIENCY</p>	<ul style="list-style-type: none"> • Sloughing • Rodent burrows. • Surface or rip rap 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>NON-EMERGENCY UNUSUAL CONDITION WITH MINIMAL POTENTIAL FOR POND FAILURE</p>	<ul style="list-style-type: none"> • Cracks parallel or transverse to pond. • Soft zones in downstream face or toe. • Previously undetected springs with clear water. • Existing springs with stable, but turbid, flow rate on pond abutments. • Settlement of top of dike. 	<ol style="list-style-type: none"> 1. Contact AEPSC Geotechnical Engineering Section. Report on inspection checklist. 2. Increase frequency of inspection as necessary.
<p>SERIOUS, BUT NON-EMERGENCY POTENTIAL POND FAILURE SITUATION IS DEVELOPING</p>	<ul style="list-style-type: none"> • The formation of new springs with turbidity or a change in the characteristics of flow from existing springs on the downstream face of the dike. This may include an increase in flow rate or steady flow rate with additional turbidity. • The formation of pipes, cavities or holes that could be attributed to internal erosion even without evidence of seepage. • Slide with no seepage and that does not reach the dike crest. • Noticeable increase in amount of foundation or abutment seepage with no apparent reason. <p>The formation of new large cracks or the enlargement of existing cracks on the top of the dike, on the faces or on the abutments of the pond.</p>	<ol style="list-style-type: none"> 1. Notify Energy Production Team Leader (EPTL) who in turn would issue an Alert (Initiate Emergency Notification Procedure) in Appendix C. 2. Contact AEP Geotechnical Engineering Manager/Engineer 3. Determine appropriate advisory notification actions 4. Initiate a constant surveillance program. 5. Report on inspection checklist.
<p>EMERGENCY FAILURE IS IMMINENT OR HAS ALREADY OCCURRED</p>	<ul style="list-style-type: none"> • The pond is overtopping. • The formation of a significant breach or significant slide on the downstream face that extends below the water line and seeps water. • The formation of a significant breach or significant slide on the upstream face that extends from below the pool elevation to the crest of the dike. • The formation of new springs with, or significantly increased flow from existing springs on abutment or downstream slope with muddy water and progressively increasing flow rate. • Other occurrence or situation that in the eyes of the observer indicates potential problems with the structural integrity of the pond or abutments. 	<ol style="list-style-type: none"> 1. Notify Team Leader who in turn should issue a Notification (See Appendix D). 2. Continue 24 hr. surveillance program, if possible. 3. Report on inspection checklist.

Part II - Emergency Action and Evacuation Plan

Section A - Notification of Agencies:

Action	Responsibility
1. Issue Notification as outlined on the Emergency Action and Evacuation Notification Chart in Appendix D of this document.	Team Leader, DWWM Dam Safety or AEPSC

The actions and responsibilities in the event of an evacuation situation are shown in the following table.

Action	Responsibility
1. Establish road blocks as necessary on Highway 2.	Marshall County OEM, Marshall County Sheriff and State Police with Mitchell Plant personnel provided assistance as required.
2. Evacuate employees and other persons at the plant as necessary.	Plant Personnel
3. Establish a command post at Mitchell Plant to direct emergency operations organize recovery efforts and direct officials of cooperating agencies.	County OEM Director and executed by local officers
4. Police security of area to maintain or initiate alternate vehicular traffic and to prevent looting.	Ranking local law enforcement officer
5. Establish additional roadblocks as necessary to prevent unauthorized entry.	Planned by County OEM Director and executed by local officers.
6. Locate additional or alternate evacuation centers, as needed.	Planned by the American Red Cross or county OEM Director and executed by local officers.
7. Notification of utilities (see below for names of utilities and corresponding phone numbers)	Plant Personnel

Check when completed:

- identify yourself
- refer to the pond by name, location (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 pond
- state that an evacuation notice is declared
- advise the person contacted of any requested assistance or action
- answer any questions

Check when notified:

Phone

- Marshall County Office of Emergency Management 911 or 304-845-1920 (24 hour number)
- DWWM Dam Safety Section 1-800-642-3074

Utilities

- Electric Service- American Electric Power (800) 852-6942
- Gas- Columbia Gas (800) 835-7191
- Telephone- Frontier (800) 921-8101
- Transportation-WV Division of Highways (304) 843-4055
- Public Water Grandview-Doolan PSD (304) 238-1060
- Public Water Grandview-Doolan PSD (304) 455-1921

Section B - Evacuation Notification of Downstream Persons:

In accordance with WV Code 22-14-10, it is the responsibility of the pond 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.

Due to the close proximity of the Bottom Ash Complex to the Ohio River, there are no residences within the estimated inundation area. Employees of AEP/Ohio Power Company, contractors, or visitors may be present within the inundation area. It will be the responsibility of the Plant Personnel to evacuate and secure this area. The flood inundation map is included in Section C, page 11.

Overtopping of West Virginia State Route #2 is not anticipated. However, roadblocks outside of the inundation area may be established as deemed necessary by local law enforcement officials.

The Marshall County OEM shall follow their County Emergency Operations Plan. The OEM will be the agency in charge outside of AEP property. The following measures will be implemented for an evacuation.

Action	Responsibility*
1. Establish road blocks as necessary on Highway 2.	Marshall County OEM, Marshall County Sheriff and State Police with Mitchell Plant personnel provided assistance as required.
2. Evacuate employees and other persons at the plant as necessary.	Plant Personnel
3. Establish a command post at the AEP Mitchell Plant if necessary, direct emergency operations to organize recovery efforts and direct officials of cooperating agencies.	Marshall County OEM Director or local officers.
4. Police security of area to maintain or initiate alternate vehicular traffic and to prevent looting.	Ranking local law enforcement officers.
5. Establish additional roadblocks as necessary to prevent unauthorized entry.	Planned by Marshall County OEM Director and executed by local officers.
7. Locate additional or alternate evacuation centers, as needed.	Planned by the American Red Cross or Marshall County OEM director and executed by local officers.
8. Notification of utilities on following page.	Plant personnel
*Appropriate names, addresses, and phone numbers are provided in Appendix B.	

Check When Notified

- Electric Service- American Electric Power
- Gas- Columbia Gas
- Telephone- Frontier
- Transportation-WV Division of Highways

- Public Water Grandview-Doolan PSD

Telephone Number

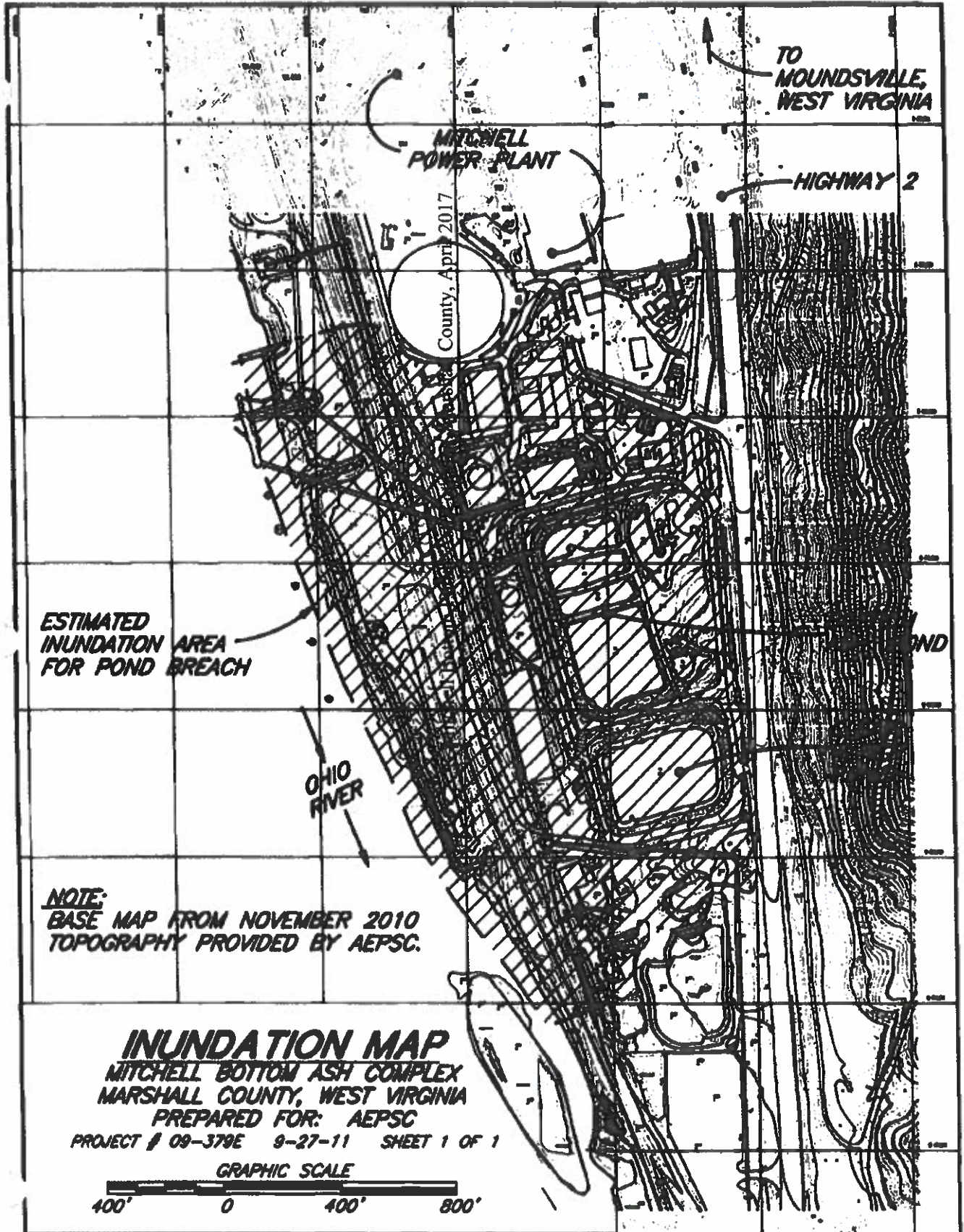
- (800) 852-6942
- (800) 835-7191
- (800) 921-8101
- (304) 843-4055 or
- (304) 238-1060
- (304) 455-1921

Section C - Evacuation Notification Map

The Evacuation Notification Map is included on the following page. This map shows the locations of the pond, inundation area, and potential evacuation area.

It should be noted that, due to the method and procedure used to develop the flooded area, the limits of flooding shown are approximate and should be used solely as a guideline for establishing evacuation zones. Actual evacuation zones may be greater than the area covered by the flood areas shown and should be re-established by local officials based on their judgment and knowledge of local conditions. Evacuation of persons outside of the area shown may be warranted and shall be at the discretion of the Marshall County OEM and/or sheriff's department, or AEP if located on plant property.

In accordance to the Marshall County emergency operations plan, the location of an evacuation center will be determined at the time of the incident at the discretion of the Marshall County Director of Emergency Services. Facilities at the Mitchell Plant will be offered as evacuation center or command post to the proper authorities if an event occurred.



Part III - Post Evacuation Notification Action

Section A: No Failure of Pond

Should no failure occur:

Action	Responsibility*
1.Cancel Evacuation Notification	Plant Management, DWWM Dam Safety Section or Marshall County OEM director
*Appropriate names, addresses, and phone numbers are provided in Appendix B	

<u>Check when notified:</u>	<u>Phone</u>
<input type="checkbox"/> Marshall County Office of Emergency Management.....	911 or 304-845-1920 (24 hour number)
<input type="checkbox"/> DWWM Dam Safety Section.....	1-800-642-3074
<input type="checkbox"/> Hannibal Locks & Dam.....	(740) 483-2305
<input type="checkbox"/> Corps of Engineers, Pittsburgh.....	(412) 395-7150 (24 hr)
<input type="checkbox"/> American Red Cross	(304) 232-0711
<input type="checkbox"/> Electric Service- American Electric Power.....	(800) 852-6942
<input type="checkbox"/> Gas- Columbia Gas.....	(800) 835-7191
<input type="checkbox"/> Telephone- Frontier.....	(800) 921-8101
<input type="checkbox"/> Transportation-WV Division of Highways.....	(304) 843-4055 or (304) 238-1060
<input type="checkbox"/> Public Water Grandview-Doolan PSD.....	(304) 455-1921

Section B: Failure of Pond

Should failure occur:

ACTION	RESPONSIBILITY*
1. Notify agencies according to checklist below.	Plant Management, County Sheriff, or DWWM Dam Safety Section
2. Evacuation or assistance to persons stranded in homes due to highway/bridge washout.	Marshall County OEM, Plant personnel.
3. Search and Rescue.	Marshall County OEM, Plant personnel.
4. Cleanup Crews and Equipment.	Marshall County OEM, Plant personnel.
*Appropriate names, addresses, and phone numbers are provided in Appendix B	

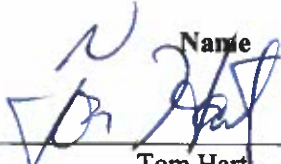
<u>Check when notified:</u>	<u>Phone</u>
___ Marshall County Office of Emergency Management.....	911 or 304-845-1920 (24 hour number)
___ DWWM Dam Safety Section.....	1-800-642-3074
___ Hannibal Locks & Dam.....	(740) 483-2305
___ Corps of Engineers, Pittsburgh.....	(412) 395-7150 (24 hr)
___ American Red Cross	(304) 232-0711
___ Electric Service- American Electric Power.....	(800) 852-6942
___ Gas- Columbia Gas.....	(800) 835-7191
___ Telephone- Frontier.....	(800) 921-8101
___ Transportation-WV Division of Highways.....	(304) 843-4055 or (304) 238-1060
___ Public Water Grandview-Doolan PSD.....	(304) 455-1921

Part IV - Administrative and Record Keeping

Section A - Signature and Distribution List


County Office of Emergency Management:

As the director of the Marshall 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.

<u>Name</u>	<u>Title</u>	<u>Date</u>
 <hr style="width: 100%;"/> Tom Hart	Director of Marshall County OEM	12/19/23

Responsible Person for Distribution of the Monitoring and Emergency Action Plan:

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

<u>Name</u>	<u>Title</u>	<u>Date</u>
 <hr style="width: 100%;"/> Joshua D Snodgrass	Plant Manager	12/13/23

Distribution:

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

<u>Name</u>	<u>Complete Mailing Address</u>	<u>Copy No.</u>
Leonel Medellin Program Manager	DEP Division of Water and Waste Management EE/Pond Safety Section 601 57 th Street SE Charleston, WV 25304	1
Bryan W Brunton, P.E. Manager Geotechnical Engineering	AEPSC Geotechnical Engineering Section 1 Riverside Plaza Columbus, OH 43215	2
Joshua D Snodgrass Plant Manager	AEP Mitchell Plant 8999 Energy Rd. Moundsville, WV 26041	3

Mitchell Bottom Ash Ponds Complex, Marshall County, December 2023

Thomas D. Hart Director	Marshall County Office of Emergency Management 601 7 th Street Suite 2 Moundsville, WV 26041	4
William Helms Sheriff	Marshall County Sheriff's Office 600 Sixth St Moundsville, WV 26041	5
WV Emergency Management Division	West Virginia Emergency Management Division 2403 Fairlawn Avenue Dunbar, WV 25064	6
Pittsburgh Emergency Readiness Office	Army Corps of Engineers Pittsburgh District 1000 Liberty Avenue Pittsburgh. PA 15222-4186	7
Erikka Storch AEPSC (External Affairs Mgr)	APCo External Affairs WV 4201 Jacob Street Wheeling, WV 26003	8
David A. Miller Director	AEPSC Environmental Services, Water Quality 1 Riverside Plaza Columbus, OH 43215	9
Cynthia Wiseman President & COO	Kentucky Power Company Suite 1100, Chase Tower 700 Virginia Street E Ashland, WV 25301	10
Aaron D Walker President & COO	Appalachian Power Company Suite 800, Laidley Tower, 500 Lee Street East, 08 Charleston, WV 25301	11

APPENDIX A – UNUSUAL OR EMERGENCY EVENT LOG

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

Pond Name: _____

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 – LIST OF CONTACTS

1. Mitchell Plant Personnel
8999 Energy Road
Moundsville, WV 26041
(304) 843-6000
8-276-6001
- Operation of the Impoundment
Dam Inspections

(Telephone System)
(AEP Audinet System)

Contact Names and Telephone Numbers

Tammy Wade (Coal Yard Supt.)	304-843-6454	304-559-8615(cell)
Daniel Garbark (Plant Env. Coordinator)	304-843-6059	304-231-7177(cell)
John E Coup (Chief Chemist)	304-843-6848	304-215-8480(cell)
Joshua D Snodgrass (Plant Manager)	304-843-6005	304-972-7279 (cell)
Unit 1 Control Room	304-843-6011 (staffed 24-hours-7 days)	
(Unit 2 Control Room)	304-843-6012 (staffed 24-hours-7 days)	
Team Leaders (Control Room)		
• Jordan Stevey	304-843-6013	304-559-4720 (Cell)
• D.M. Bodkin	304-843-6016	304-559-3942(cell)
• M. Nash	304-843-6018	304-551-6789 (cell)
• M. Potter	304-843-6015	304-830-0907(cell)
• Jeff Glasgow	304-843-6017	304-650-6712(cell)

Inspections Performed by One Performance Industrial Hygiene Technician

- George Kleevic
- Chris Dalrymple
- Greg Suter

2. American Electric Power Service Corporation
Civil Engineering
1 Riverside Plaza
Columbus, Ohio 43215

Bryan W Brunton (Manager, Geotechnical Engineering)	Office	614-716- 3090
	Cell Phone	614-477-2659

Mohammad Ajlouni (Engineer Staff, Geotechnical Engineering)		614-716-2939
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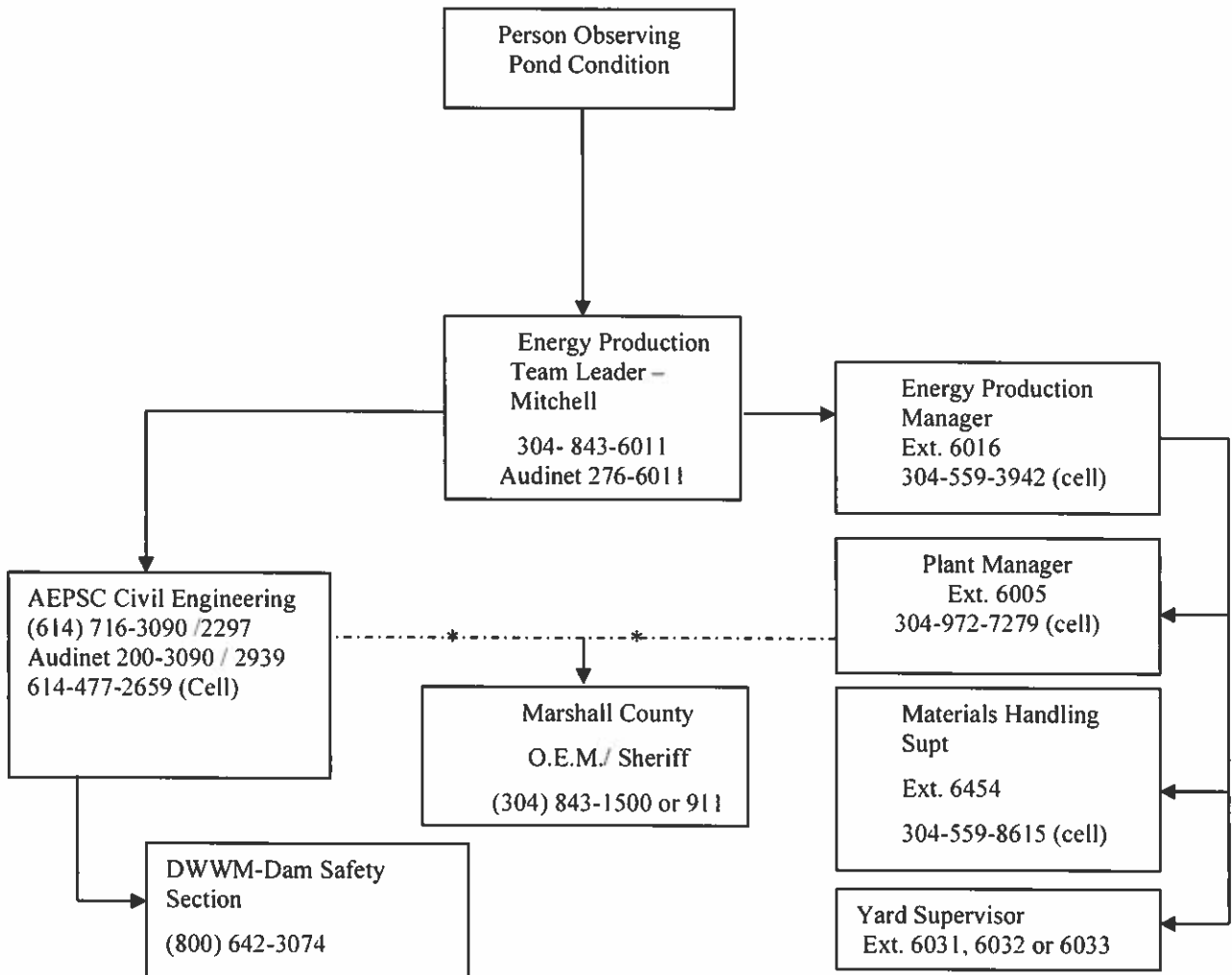
3. American Electric Power Service Corporation
Belmont Office & Service Center
47687 National Road W
St. Clairsville, OH 43950

Erikka Storch (External Affairs Mgr)	Office	304-234-3109
	Cell Phone	304-231-7443

APPENDIX C – STANDBY ALERT NOTIFICATION CHART

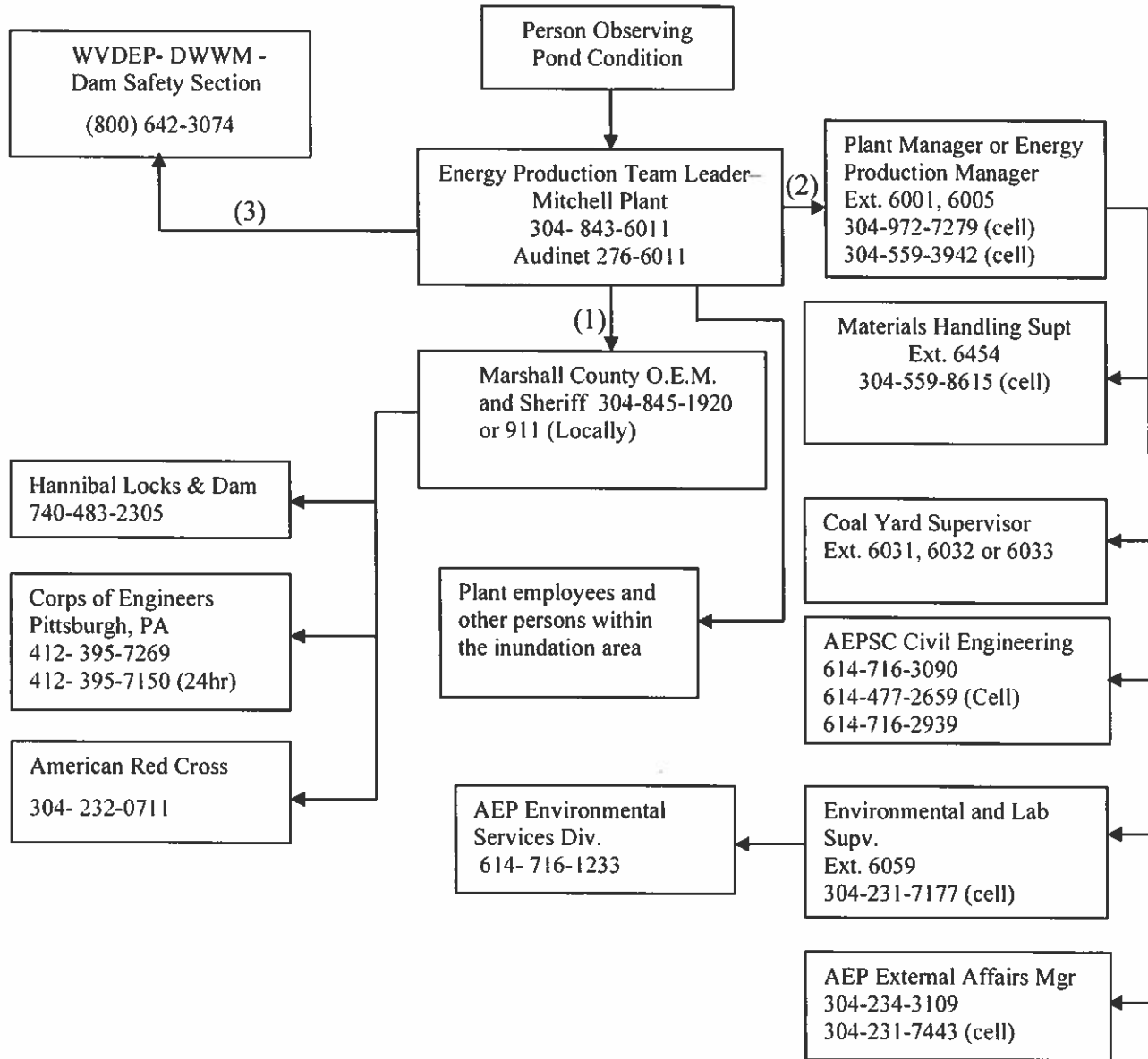
STANDBY ALERT NOTIFICATION

Note: If failure is imminent or failure has occurred, proceed with Emergency Notification "Appendix D"



* Denotes that the contact to the "Office of Emergency Management" may be made by either entity or preferably after consultation between both parties.

APPENDIX D - EMERGENCY ACTION AND EVACUATION NOTIFICATION CHART



APPENDIX E -PERIODIC INSPECTION FORMS

**MITCHELL PLANT
DAM & DIKE INSPECTION CHECKLIST**

BOTTOM ASH & CLEAR WATER PONDS INSPECTION

1	GENERAL INFORMATION	
	Date of inspection	
	Inspected by	
	Weather	
	Temperature	
	Rainfall during previous 7 days	
	Reservoir elevation Bottom Ash Pond	
	Reservoir elevation Clear Water Pond	
	Grass Hight	

2. BOTTOM ASH POND APPROACH AREA

Is there any seepage form the northwest corner of the pond? If so, has the seepage rate increased or decreased since last inspection, and is the seepage water clear or muddy?

3. Embankment Conditions at Bottom Ash and Clearwater Ponds

Please refer to Bottom Ash and Clearwater Pond Inspection Location Plan, which is found on page 5. Place a number or letter and, if desired, a descriptive sketch on the location plan at each problem area, and place the same number(s) or letter(s) next to the appropriate descriptions below.

DESCRIPTION	LOCATION CODE
Cracks	
Bulges	
Slides	
Erosion	
Soft Soil	
Leaking Pipe	
Seepage/Wetness	
Rodent Burrows	
Exposed Liner	
Torn Liner	
Trees on Dike	
Other (please specify)	

4. Discharge Structures at Bottom Ash and Clearwater Ponds

Please mark the appropriate spaces below as to conditions observed.

DESCRIPTION	BOTTOM ASH POND	CLEARWATER POND
Condition at Inlet End:		
Stop Logs Available?		
Condition at Discharged End:		
Erosion Problems: (note location(s) on drawing pg. 5)		
Obstructions: (note location(s) on drawing pg. 5)		
Concrete Condition:		
Is Access Path Clear?		
Water Level Gauge OK?		
Other (please specify)		

5. Miscellaneous at Bottom Ash and Clearwater Ponds

Have there been any changes in the existing bulge at the outboard slope of the Northwest corner of the pond?

6.) Piezometers around the Bottom Ash and Clearwell Pond

B2 – North of Bottom Ash Pond _____ feet

B3 – East side of Bottom Ash Pond _____ feet

B4 – Between South end of Bottom Ash Pond _____ feet
and North end of Clearwell Pond

B5 – West of Clearwell Pond Discharge _____ feet

All Readings are taken to the Top of the Concrete

7. Bottom Ash and Clearwater Ponds-Notes and comments including remedial work since last inspection.

CC: Lab Folder
Tammy Wade
Danielle Roski
Mohammad Ajlouni, Civil Engineering, AEPSC
Matt Palmer
Daniel Garbark
John Coup





**30-DAY INSPECTION CHECKLIST
MITCHELL PLANT
BOTTOM ASH POND COMPLEX**

FORM ID: ML-BAP-30DayData
FILE NAME: ML-BAP-30DayData
mmddyy.pdf
REVISION: 1

Date:	
Weather / Temperature:	/
Inspector(s):	
Pool Level (BAP/CWP):	/

ITEM	READINGS (ft)
Piezometer Readings	
1. B2 - North of Bottom Ash Pond	
2. B3 - West of Bottom Ash Pond	
3. B4 - Between South end of Bottom Ash Pond and North end of Clearwell Pond	
4. B5 - West of Clearwell Pond Discharge	
5. Height of Grass	Inches

Comments:

Contact AEP Geotechnical Engineering if any unsatisfactory conditions or deficiencies are discovered.

INSPECTOR'S SIGNATURE: _____

APPENDIX F – INSPECTION CERTIFICATION FORM

APPENDIX G – PLANS FOR TRAINING, EXERCISING, AND UPDATING THE EMERGENCY ACTION PLAN

Training and Updating:

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. Local County Emergency Management Agency/first responders should be invited to attend the annual training for a face-to-face meeting and to have a general sense of familiarity with the dam site. A review of and training for the Mitchell Bottom Ash Ponds Complex's EAP will occur on an annual basis. The plant manager or his representative, will be responsible for updating and, if revisions are necessary, distributing copies of the revisions. Copies of all updated or revised pages will be provided to all holders of the EAP. A copy of the most current EAP will be kept by the distribution list located in Part IV Section A of this plan.

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, such as tabletop emergency exercises. Records/summaries of all EAP exercises should be documented in the EAP. In addition, 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.

REVIEW AND UPDATE OF THE PLAN

This plan will be reviewed and updated annually and a thorough review of the entire plan will be conducted in intervals not to exceed five years. Document these reviews below:

Year 1:

Date of review: _____

Date of revisions send to EAP holders: _____

Notes:

Year 2:

Date of review: _____

Date of revisions send to EAP holders: _____

Notes:

Year 3:

Date of review: _____

Date of revisions send to EAP holders: _____

Notes:

Year 4:

Date of review: _____

Date of revisions send to EAP holders: _____

Notes:

Year 5:

Date of review: _____

Notes:

Simulated Emergency/ Tabletop Exercise Record Form

Date Exercise Conducted:	
Participant Sign-In:	
Type of Simulation Conducted:	<i>Circle Emergency Type and provide general description of scenario.</i> Emergency Water Release Watch Condition Imminent Dam Failure Actual Dam Failure

<p>Comments/Results of Exercise:</p>	
<p>Revisions Needed to EAP Based on Results of Exercise?</p>	<p>Yes No If yes, list revisions required:</p>