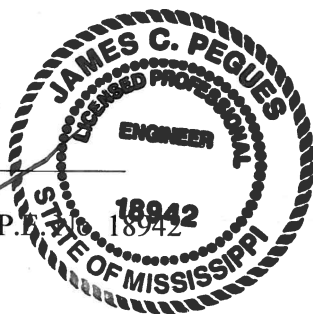


CCR SURFACE IMPOUNDMENT EMERGENCY ACTION PLAN

Plant Daniel Ash Pond B

I hereby certify that this Emergency Action Plan has been prepared in accordance with the requirements of 40 C.F.R. Part 257.73.

James C. Pegues, P.E.
Licensed State of Mississippi, P.E.



ISSUE DATE: 04/17/2017
REVISION #: 0

REVISION RECORD

In accordance with 40 C.F.R. Part 257.73, this Emergency Action Plan (EAP) must be amended whenever there is a change in conditions that would substantially affect the EAP in effect. Additionally, the EAP must be evaluated, at a minimum, every five years to ensure the information is accurate. As necessary, this EAP must be updated and a revised EAP placed in the facility's operating record as required by 40 C.F.R. Part 257.105(f)(6).

Revision Number	Date	Sections Affected/Reason
0	04/17/2017	Creation of Initial EAP

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Appendix F Instructions for the Construction of an Emergency Reverse Filter

ACRONYMS AND ABBREVIATIONS

MDOT	Mississippi Department of Transportation
MEMA	Mississippi Emergency Management Agency
MPC	Mississippi Power Company
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
E&CS	Engineering & Construction Services
EAP	Emergency Action Plan
EMA	Emergency Management Agency
EPA	Environmental Protection Agency
FERC	Federal Energy Regulatory Commission
H:V	Horizontal:Vertical
HDPE	High-Density Polyethylene
ID	Inside Diameter
SCS	Southern Company Services

DEFINITIONS

Adverse Consequences. Negative impacts that may result from the failure of a dam. The primary concerns are loss of life, economic loss (including property damage), lifeline disruption and environmental impact.

Coal Combustion Residuals (CCR). Fly ash, bottom ash, boiler slag, and flue gas desulfurization materials generated from burning coal for the purpose of generating electricity by electric utilities and independent power producers.

CCR Surface Impoundment. A natural topographic depression, man-made excavation, or diked area which is designed to hold an accumulation of CCR and liquids, and the unit treats, stores, or disposes of CCR.

Dam/Dike/Embankment. An artificial barrier that has the ability to impound water, wastewater, or any liquid-borne material for the purpose of storage.

Dam Failure. Catastrophic type of failure characterized by the sudden, rapid and uncontrolled release of impounded water or the likelihood of such an uncontrolled release. It is recognized that there are lesser degrees of failure and that any malfunction or abnormality outside the design assumptions and parameters that adversely affect a dam's primary function of impounding water is properly considered a failure. These lesser degrees of failure can progressively lead to or heighten the risk of catastrophic failure. They are, however, normally amenable to corrective action.

Imminent Failure (Condition A Emergency). Failure of a dam/dike/embankment is imminent or has occurred.

Potential Failure (Condition B Emergency). A potential failure condition of a dam/dike/embankment is a developing condition, but adequate time is available to properly evaluate the problem and implement corrective actions that may alleviate or prevent failure.

Non-Failure Condition. A condition that will not, by itself, lead to a failure, but that requires investigation and notification of internal and/or external personnel.

Emergency. A condition that develops unexpectedly, endangers the structural integrity of the dam, and requires immediate action. An emergency can lead to Adverse Consequences in the event of Imminent Failure.

Filter. One or more layers of granular material graded so as to allow seepage through or within the layers while preventing the migration of material from adjacent zones.

Inundation Map. A graphic representation of the inundation zone that shows the potential impact area due to a breach of the Ash Pond. The inundation maps in this procedure are based on a specific computer-modeled dam breach scenario; therefore, the boundaries depicted are estimates for that particular model. *The models are considered conservative but larger floods could potentially occur.* Please refer to Appendix B.

Inundation Zone. Area subject to flooding in the event of increased flows due to a dam/dike/embankment failure.

Piping. The progressive development of internal erosion of the dam/dike/embankment or foundation material by seepage.

Probable Maximum Flood. The flood that may be expected from the most severe combination of critical meteorologic and hydrologic conditions that are reasonably possible in the drainage basin.

Sunny Day Failure. A night or day failure that occurs during fair weather or when weather-related flooding is not occurring.

1.0 STATEMENT OF PURPOSE

This Emergency Action Plan (EAP) has been prepared for the Plant Daniel Ash Pond B to meet the requirements of 40 C.F.R. Part 257.73(a)(3). The EAP identifies potential safety emergency conditions at the Plant Daniel Ash Pond B and specifies actions to be followed to minimize potential loss of life and property damage if such conditions exist.

This EAP will provide responding personnel with:

- Pertinent information and description related to Plant Daniel Ash Pond B;
- Definition of events or circumstances that represent a safety emergency;
- Procedures that will be followed to detect a safety emergency;
- Notification procedures in the event of a safety emergency;
- Information to assist in decision making;
- A list of responsible persons and their respective responsibilities;
- Provisions for an annual face-to-face meeting with local emergency responders;
- Contact information for emergency agencies and other emergency responders
- A map that delineates the downstream area that could be affected in the event of a failure.

2.0 FACILITY DESCRIPTION

Plant Daniel is a coal-fired power plant located near Moss Point, Mississippi. This EAP covers emergency response procedures for the Plant Daniel Ash Pond B (the Ash Pond), which is designed to receive and store coal combustion residuals and low volume waste streams produced during the electric generating process at Plant Daniel. An overview of Plant Daniel and the surrounding area is shown in Appendix A – Figure 1.

Ash Pond B is approximately 23 acres in size and has a normal pool elevation of 23 feet or lower (Appendix A – Figure 2). A portion of these 23 acres is utilized for decanting sluiced bottom ash and contains little to no standing water. The Ash Pond has earthen embankments (also referred to as dam/dike) on its west, east, and south sides. The crest elevation of the perimeter dike is about EL 39 feet. The interior slopes are covered with 60-mil HDPE geomembrane. The crest surface is composed of grass and a gravel access drive. Downstream slopes are covered with grass and/or riprap.

There is no passive (gravity) discharge outfall from Ash Pond B. Most of the water is pumped from the pond back to the plant for reuse, or is pumped to the adjoining plant discharge canal through a permitted discharge point. There are three 5,000 gpm pumps at the impoundment, with two utilized on a regular basis, and one for backup/redundancy.

The Ash Pond dam/dike has been assigned a Significant Hazard Potential classification under 40 C.F.R. Part 257.73 of the Environmental Protection Agency's (EPA's) Coal Combustion Residuals (CCR) Rule. This classification indicates that a failure or mis-operation results in no probable loss of human life, but can cause economic loss, environmental damage, disruption of lifeline facilities, or impact other concerns. There are no other dams located downstream that could be impacted by the failure of the Ash Pond dam/dike. The limits of potential flooding in the event of failure of the Ash Pond dam/dike can be seen on the Inundation Maps, which are included as Appendix B. The provided inundation maps were developed based on the results of routing the breach wave downstream using the computer software, HEC-RAS. HEC-RAS is a general application one-dimensional hydraulic model that can perform unsteady flow routing through an open channel system that may also include culverts, bridges, levees, tributaries, storage areas, and other dams. Unsteady flow analyses allow for flow conditions that vary temporally and spatially such as a dam breach simulation. Breach parameters such as failure time, breach width, and breach side slopes were selected from industry accepted empirical formulas. Water surface elevation data was extracted from the hydraulic model and plotted on best available LiDAR topographic information for the downstream areas.

Normal river/lake levels and the flow from simulated dam breaches were superimposed over topographical maps to identify areas subject to flooding. ***These flood extents are provided for planning purposes only; actual flooding can vary due to actual conditions present at the time of the failure.***

3.0 DETECTION, EVALUATION, AND CLASSIFICATION PROCEDURES FOR EMERGENCIES

3.1 Inspection Schedule and Condition Detection/Evaluation

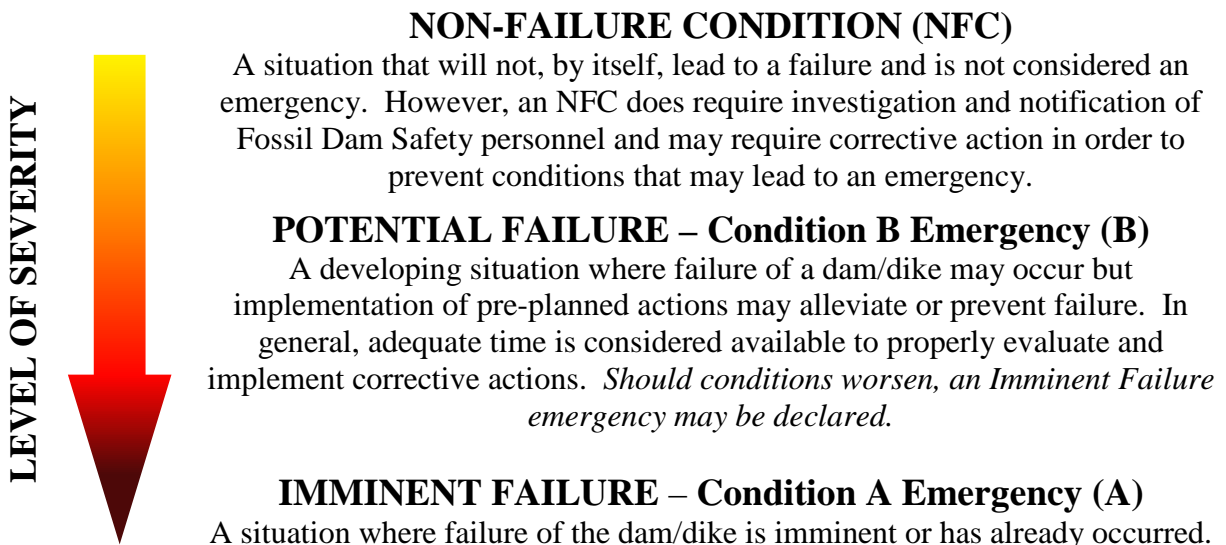
Trained personnel from Plant Daniel inspect the Ash Pond dams/dike on a regular basis to pre-emptively detect conditions, in a timely manner, that could indicate a potential issue so that it can be addressed. Trained personnel from the Plant’s Environmental Compliance group perform weekly inspections and SCS E&CS Fossil Dam Safety (Fossil Dam Safety) personnel perform annual inspections.

Plant personnel conducting inspections of the dams/dikes are trained on an annual basis by engineers from Fossil Dam Safety on the appropriate surveillance and monitoring requirements.

Any issues discovered during an inspection are reported to Fossil Dam Safety as prescribed in the Safety Procedure for Dams and Dikes at Fossil Generation Plants (GEN10004). The Fossil Dam Safety Engineer(s) working with plant personnel will recommend a corrective course of action, as needed.

3.2 Condition Severity Classifications

Ash Pond dam/dike conditions will be classified based on the type of event, severity of the situation, and the time required to take corrective measures. This procedure covers the following severity classifications:



3.3 Guidance for Determining the Emergency Level

The following table details potential situations that could occur at the Ash Pond dam/dike. *The Condition Level indicated in the right-most column corresponds with the Condition Severity Classifications in Section 3.2 above.*

Event	Situation	Condition Level
Embankment Overtopping	Reservoir level is 1 foot below the top of the dam/dike	B
	Water from the reservoir is flowing over the top of the dam/dike	A
Seepage	New seepage areas in or near the dam/dike	NFC
	New seepage areas with cloudy discharge or increasing flow rate	B
	Seepage with discharge greater than 10 gallons per minute	A
Dropouts	Observation of new dropouts in reservoir area or on embankment	B
	Rapidly enlarging dropout	A
Embankment Cracking	New cracks in the embankment greater than 1/4-inch wide without seepage	NFC
	Cracks in the embankment with seepage	B
Embankment Movement	Visual movement/slippage of the embankment slope	NFC
	Sudden or rapidly proceeding slides of the embankment slopes	A
Earthquake	Measurable earthquake felt or reported on or within 50 miles of the dam/dike	NFC
	Earthquake resulting in visible damage to the dam/dike or appurtenances	B
	Earthquake resulting in uncontrolled release of water from the dam/dike	A
Security Threat	Verified bomb threat that, if carried out, could result in damage to the dam/dike	B
	Detonated bomb that has resulted in damage to the dam/dike or appurtenances	A
Sabotage / Vandalism	Damage to dam/dike or appurtenances that could adversely impact the functioning of the dam/dike	NFC
	Modification to the dam/dike or appurtenances that could adversely impact the functioning of the dam/dike	NFC
	Damage to dam/dike or appurtenances that has resulted in seepage flow	B
	Damage to dam/dike or appurtenances that has resulted in uncontrolled water release	A

4.0 INCIDENT RESPONSE

The following situations and conditions should be evaluated when performing condition severity detections and evaluations.

Overtopping. The Ash Pond has no contributing watershed area compared to the overall size of the reservoir. The Ash Pond only receives and/or contains rainfall/stormwater that falls directly into it, water used for sluicing ash, other process and drainage flows pumped from the plant, and submerged CCR. The impoundment is designed to safely manage the 1,000 year storm event.

Seepage. Failures due to internal erosion and/or piping resulting from seepage would be detected in the early stages during the regular inspections conducted by plant personnel. Inspectors are trained to look for evidence of seepage. Therefore, the conditions that could lead to failures of this type would likely be discovered and corrected, making an actual failure a remote possibility.

Slope Instability. Slope instability would be demonstrated by sloughing of dam/dike slopes, which would be detected by Environmental Compliance personnel in their weekly inspections. The conditions that could potentially lead to a failure of this type would also be detected in advance and corrected making an actual failure a remote possibility.

In the event that conditions are detected that could potentially lead to a dam/dike failure, the flowcharts in Appendices C (Incident Response) and D (Response Notification) will be used to respond to the situation and alert applicable personnel and emergency agencies. In that situation, local emergency management agencies (EMAs) would respond and begin warnings and evacuations as soon as possible following the declaration of a safety emergency.

4.1 Access to the Site

Figures 1 and 2 in Appendix A illustrate the location of Ash Pond B within the Plant.

4.2 Response during Periods of Darkness

Plant Daniel is operational and/or manned 24 hours a day every day, and personnel and equipment are able to access the site at any time. Response times would not vary significantly from daylight conditions.

4.3 Response during Weekends and Holidays

Plant Daniel is operational and manned 24 hours a day every day, and personnel and equipment will be able to access the site at any time. The response times of certain personnel may be affected, but 24-hour contact information is included in the EAP for responsible personnel.

4.4 Response during Adverse Weather

The dam/dike is accessed by paved and gravel-surfaced roads and is accessible during periods of adverse weather. If severe flooding causes road closures, response times may be adversely affected (see Section 4.1 above for impacts to travel times.)

5.0 RESPONSIBLE PERSONS AND RESPONSIBILITIES

Designated personnel have been trained in the use of these response procedures and are aware of their responsibilities in making the procedures effective. The chain of command and the individual responsibilities for plant personnel, public officials, and agencies are outlined below.

5.1 Incident Commander

The Incident Commander is the 24-hour point of contact for all plant emergencies. The Primary Incident Commander is the Operations Team Leader on-shift.

The Incident Commander is responsible for ensuring the following functions are addressed as required for emergency response situations:

1. Verifying that an emergency condition exists.
2. Assessing and declaring the emergency condition.
3. Consulting with Fossil Dam Safety to evaluate conditions and determine remediation actions.
4. Emergency Actions
 - a. If necessary, implement actions to lower the water level in the impoundment in consultation with Fossil Dam Safety.
 - b. Call-out of personnel necessary to perform the work required on plant site during the emergency.
5. Ensure the notification process as outlined in the Response Notification Flowchart (Appendix D) is completed in an expedient manner.
6. Other responsibilities include:
 - a. Contacting the Plant Manager and Security
 - b. Establishing lines of communication from the plant to the local and state EMAs.
 - c. Ensuring emergency sources of power are available for the operation of essential equipment such as emergency lighting.
 - d. Ensuring the availability of heavy equipment and trained operators to aid in the mitigation effort.

5.2 Emergency Response Team Leader

The Incident Commander shall assign an Emergency Response Team Leader as appropriate for the type of emergency incident. Duties include reporting matters relating to potential emergency action directly to the Incident Commander, accounting for his/her crew personnel and directing their actions.

5.3 Plant Security Department

The Plant Security Department is responsible for securing company property and controlling access to company facilities. The Plant Security Department will relay information to the Incident

Commander. The Incident Commander will determine the appropriate people and agencies to notify. If conditions warrant, Plant Security will contact the local EMA and MPC Corporate Security. The Plant Security Department will perform emergency notifications to Plant departments as appropriate.

5.4 Plant Manager

The Plant Manager is responsible for notifying the Southern Company Generation Vice-President/Senior Production Officer and for notifying MPC Corporate Communications.

5.5 Plant Compliance and Support

Compliance and Support (C&S) personnel are responsible for assessing conditions, obtaining assistance from Fossil Dam Safety, and for providing technical updates to the Incident Commander. Compliance personnel can also request assistance from MPC Environmental Affairs, if conditions warrant.

5.6 Alabama Control Center

The Alabama Control Center monitors plant operations on behalf of Mississippi Power Company. The Alabama Control Center contacts the National Weather Service to inform them of conditions at the plant that may lead to potential flooding downstream.

5.7 Fossil Dam Safety

Fossil Dam Safety is responsible for coordinating and providing the technical support necessary to mitigate the emergency condition and for notifying MPC Corporate Communications of the emergency condition. The Fossil Dam Safety Manager shall notify the MPC Supply Chain Management and the Mississippi Dam Safety Program as shown on the Response Notification Flowchart (Appendix D).

5.8 MPC Personnel

Environmental Affairs

MPC Environmental Affairs is responsible for coordinating long-term environmental response (after the initial response) and to remediate environmental issues and provide the technical support necessary for any remediation needs. Environmental Affairs is also responsible for all communications with environmental regulatory agencies for appropriate reporting of releases to the environment and for securing variances to existing permits.

If necessary, Environmental Affairs will also help secure approved remediation contractors for the specific emergency condition that may exist. They will also provide additional support, such as emergency manpower, material, equipment, and expertise to assist in mitigation efforts, if needed.

Corporate Communications

MPC Corporate Communications is responsible for coordinating the MPC media response and will schedule news briefings and prepare news releases, as required. MPC Corporate Communications will also work with local and State Public Information Officers to ensure that timely, accurate, and consistent information is made available to media outlets.

Corporate Security

MPC Corporate Security is responsible for supporting Plant Security personnel and contracting with local law enforcement for additional security personnel as needed.

Supply Chain Management

Supply Chain Management is responsible for obtaining additional equipment and materials necessary to mitigate the emergency condition and begin the recovery process.

5.9 Emergency Agencies

Local EMAs are responsible for planning and implementing evacuation and sheltering plans as well as directing search, rescue, and recovery efforts. If additional resources are required, the local agencies can contact the Mississippi Emergency Management Agency (Mississippi EMA) for assistance.

The local EMAs are the point of contact between plant personnel and local jurisdictions. The EMAs are responsible for the direction and control of emergency operations at the local level and keeping local government officials informed of the status of emergency operations.

Mississippi EMA generally becomes involved in an emergency situation if the local agencies are not capable of handling the situation or if assistance is requested by a local agency or by the Governor. Refer to the "Mississippi Comprehensive Emergency Management Plan" (MCEMP) for an explanation of specific functions. Mississippi EMA has responsibilities similar to the local EMAs but is also responsible for mobilizing state military support as well as State Emergency Operations Center operations.

5.10 Law Enforcement

Local Law Enforcement agencies are notified by the appropriate EMA. Mississippi EMA notifies the Highway Patrol as well as the Mississippi Department of Transportation (MDOT). Law Enforcement is responsible for traffic control and can assist with evacuation (if needed), mitigation, and rescue activities.

6.0 NOTIFICATION PROCEDURES

Communication during an emergency event will primarily be by company phone. In the event of system failure, Southern Linc radios and cell phones would be utilized as an alternate method of communication.

Local and state EMA will be notified in the event of an emergency, and these agencies will be responsible for notifying the public. In the event of an imminent failure, local and state EMA's will be notified to immediately begin evacuation procedures if needed. MPC Corporate Communications will provide information for media outlets and will be responsible for communicating relevant information to the public.

6.1 Incident Response Flowchart for Imminent Failure and Potential Failure Emergencies

This Procedure and the following Incident Response Flowchart (below in text and in Appendix C in visual) for Imminent Failure and Potential Failure Emergencies shall be posted at appropriate locations at Plant Daniel. Personnel responsible for executing mitigation and/or emergency actions shall be thoroughly familiar with their responsibilities under this EAP.

- A. When a Condition B or Condition A situation is detected, notify plant personnel in accordance with the Incident Response Flowchart (below and in Appendix C). Plant Environmental Compliance should contact Fossil Dam Safety immediately for technical consultation. Fossil Dam Safety will provide the evaluation of the conditions and provide a determination if there is an immediate threat to the dam/dike. If there is an immediate threat of dam/dike or dike failure, declare an **Imminent Failure Emergency** and proceed to Step I.
- B. If no immediate threat is detected, determine if the problem detected could possibly lead to failure of the dam/dike. If there is a potential for failure but corrective measures may be taken to moderate or alleviate failure, declare a **Potential Failure Emergency (Condition B)** and proceed to Step C.
- C. If a **Potential Failure Emergency** has been declared, notify personnel and agencies listed on the Response Notification Flowchart (Appendix D). Document all communications using the appropriate forms contained in Appendix E. Once outside agencies have been notified of an issue or potential problem, plant management is responsible for keeping local EMAs informed of any change in conditions.
- D. Begin corrective measures to attempt to alleviate or prevent failure.

Evaluate the effectiveness of the corrective measures. If the corrective actions are successful, update all personnel/agencies previously contacted of the status of the improved conditions and document relevant communications using the forms provided in Appendix E. At this time, the Incident Commander will end the emergency condition. Fossil Dam Safety will be responsible for preparing the after-action report.

- E. If the corrective measures are not effective, Fossil Dam Safety will determine if there is time to take additional corrective measures.
- F. If there is not time to take additional corrective measures and failure is imminent, declare an **Imminent Failure Emergency (Condition A)** and proceed to Step I.
- G. If there is time to implement additional corrective measures, return to Step E. Additional support can be requested from Civil Field Services or outside contractors, as needed.
- H. If an **Imminent Failure Emergency** has been declared by the Incident Commander or his designee, ensure that all personnel have been moved to a safe area and perform notifications per the Response Notification Flowchart (Appendix D). Document all communications using the appropriate forms contained in Appendix E. Once outside agencies have been notified of a problem or potential problem, the Incident Commander or his designee is responsible for keeping local EMAs informed of any change in conditions. Fossil Dam Safety will be responsible for preparing the after-action report.

6.2 Additional Considerations

All communication shall be documented using the *Data Recording Sheet* located in Appendix E.

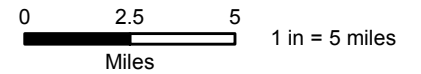
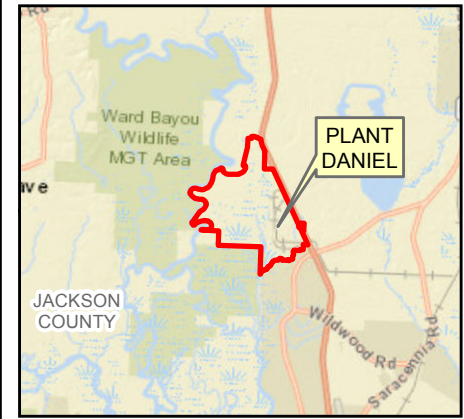
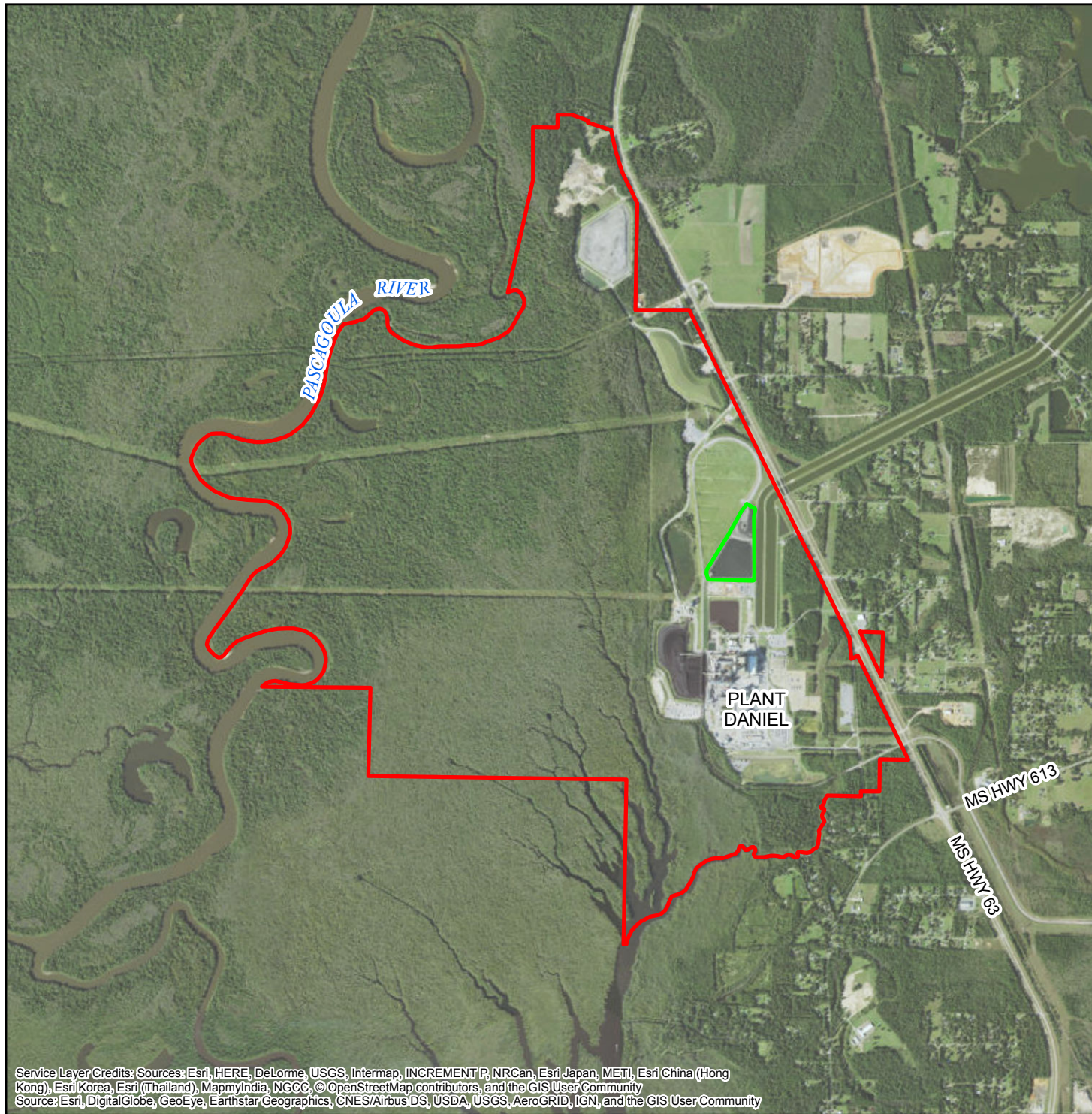
7.0 PROVISIONS FOR ANNUAL COORDINATION MEETING

An annual face-to-face meeting will be held with representatives of Plant Daniel, MPC, and the emergency response agencies described in this plan. These emergency response agencies will include: Southern Company Services Fossil Dam Safety, and local emergency responders.



- Southern Company Services Fossil Dam Safety
- Mississippi System Owner
- MPC Environmental Affairs
- MPC Corporate Communications
- MPC Supply Chain Management
- Local Emergency Responders

APPENDIX A

Plant Daniel Location Map – Figure 1
Ash Pond B Overview – Figure 2



LEGEND

-  Plant Boundary
-  Ash Pond B Boundary

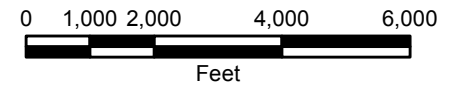
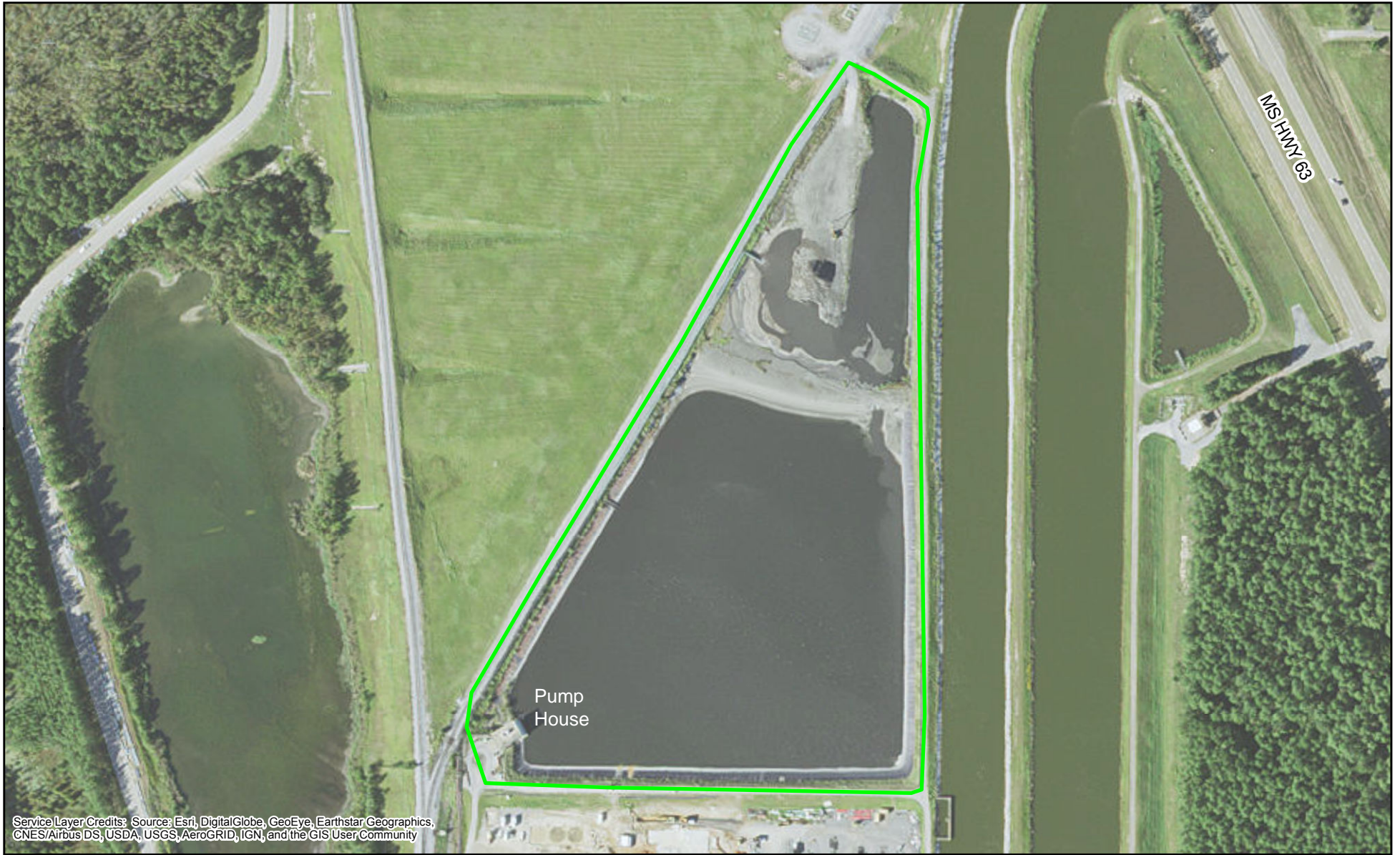


FIGURE 1
 PLANT DANIEL LOCATION MAP
 JACSON COUNTY, MISSISSIPPI


**Southern Company Services
 FOR
 Mississippi Power
 Company**

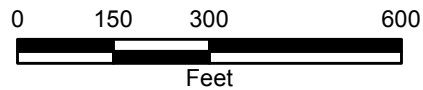
Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community
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LEGEND

 Ash Pond B Boundary

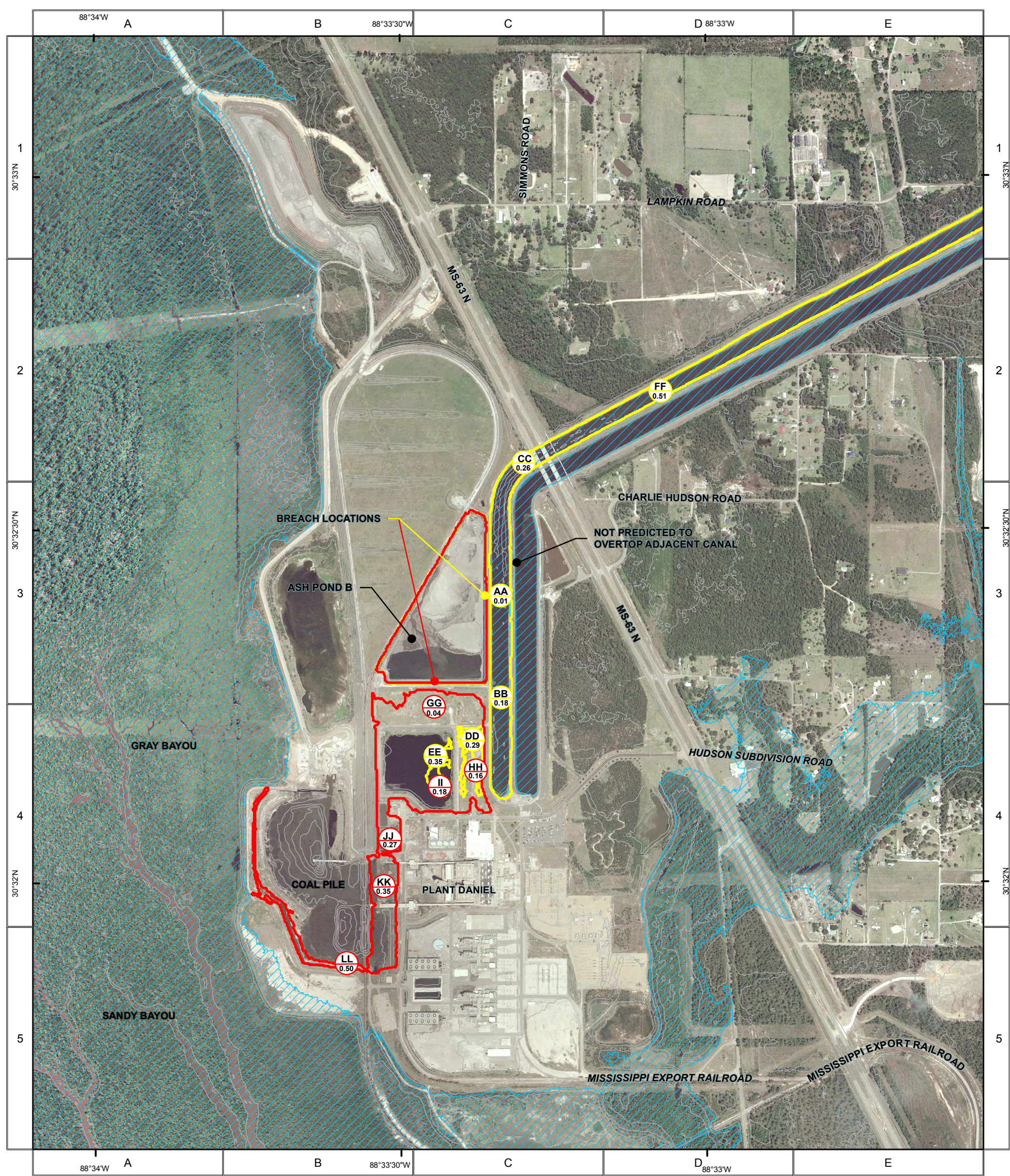


1 inch = 300 feet

FIGURE 2
ASH POND B OVERVIEW
PLANT DANIEL
JACKSON COUNTY, MISSISSIPPI

Southern Company Services
FOR
Mississippi Power Company

APPENDIX B
Inundation Maps



East Dike Sunny Day Breach Summary							
Point	Distance From Breach (miles)	Arrival Time (HH:MM)	Time to Peak (HH:MM)	Ground Elevation (ft-msl)	Maximum Water Surface Elevation (ft-msl)	Maximum Water Depth (feet)	Description
AA	0.01	00:06	00:30	14.7	33.09	18.4	Downstream of Brach/Canal
BB	0.18	00:06	00:30	16.3	33.24	16.9	Canal
CC	0.26	00:10	00:30	14.4	33.09	18.7	Canal
DD	0.29	00:26	00:29	16.3	17.03	0.7	Plant Area
EE	0.35	00:32	00:42	7.9	8.05	0.2	Plant Area: Downstream Pond
FF	0.51	00:17	00:33	14.2	29.87	15.7	Canal

South Dike Sunny Day Breach Summary							
Point	Distance From Breach (miles)	Arrival Time (HH:MM)	Time to Peak (HH:MM)	Ground Elevation (ft-msl)	Maximum Water Surface Elevation (ft-msl)	Maximum Water Depth (feet)	Description
GG	0.04	00:05	00:42	24.1	28.5	4.4	Plant Area
HH	0.16	00:24	02:30	15.4	20.74	5.3	Plant Area
II	0.18	00:13	02:15	7.6	20.74	13.1	Plant Area: Downstream Pond
JJ	0.27	01:19	02:10	9.3	20.73	11.4	Plant Area
KK	0.35	01:58	03:48	16.4	19.16	2.8	Plant Area
LL	0.5	03:19	04:30	14.3	17.3	3.0	Plant Area

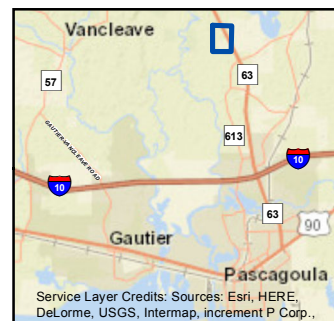
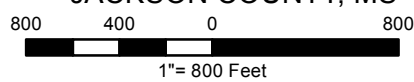
Projection: Transverse Mercator, NAD 1983 Mississippi East State Plane
 ISSUE DATE: 12/5/2016 PAGE 1 of 1

- Notes
- This map depicts the maximum water surface elevation from breaching of the eastern and southern sides of the embankment.
 - Mapping of flooded areas and flood wave travel times are approximate and should be used as guidance for establishing evacuation zones.
 - Actual areas inundated will depend on failure mode and pre-failure hydrologic conditions and may differ significantly from information shown on these maps.

PLANT DANIEL

ASH POND DAM BREACH ANALYSIS

JACKSON COUNTY, MS

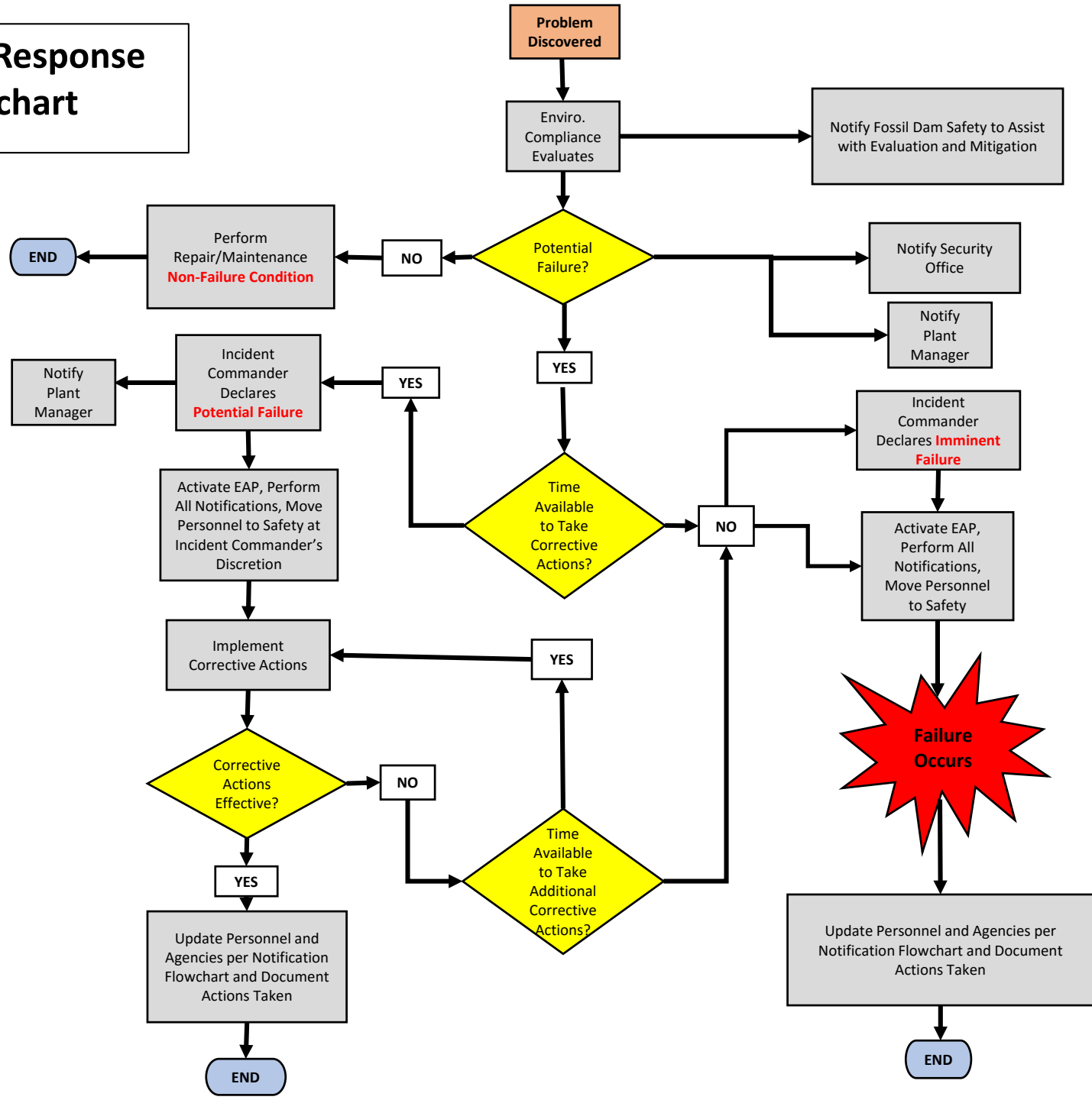


AA 0.00 POINT IDENTIFIER DISTANCE FROM BREACH SOUTH EAST
 AA 0.00 POINT IDENTIFIER DISTANCE FROM BREACH SOUTH WEST
 5 FOOT CONTOUR
 EAST BREACH
 FEMA ZONE A FLOODPLAIN
 SOUTH BREACH

APPENDIX C

Incident Response Flowchart

Incident Response Flowchart

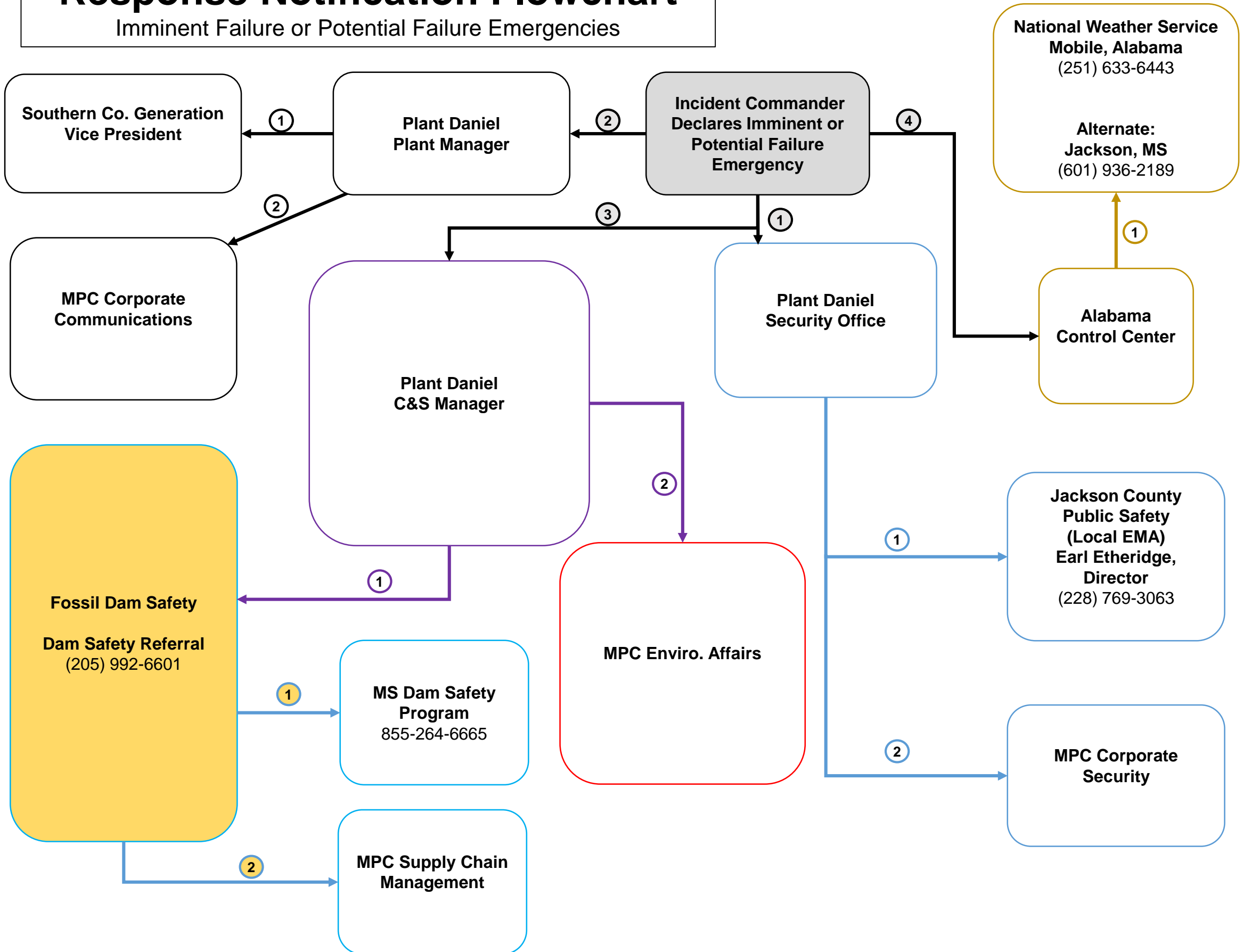


APPENDIX D

Response Notification Flowchart

Response Notification Flowchart

Imminent Failure or Potential Failure Emergencies



APPENDIX E

Data Recording Sheet

EMERGENCY ACTION PLAN DATA RECORDING SHEET

The Data Recording Sheet will be used to record important information relating to dam safety emergency.

Team Member(s): _____

Date of Incident: _____

Time of Incident: _____

Type of Emergency: _____

Emergency Coordinator: _____

Description of Events:* _____

What is Being Done:* _____

*Attach additional pages as necessary.

For incoming questions, refer all calls to:

Media Inquiries: Mississippi Power Company Corporate Communications

EMA Inquiries: Plant Manager/Incident Commander

Environmental Agency Inquiries: MPC Environmental Affairs

APPENDIX F

Instructions for the Construction of an Emergency Reverse Filter

EMERGENCY REVERSE FILTER CONSTRUCTION

The purpose of the reverse filter is to slow down the flow of water in order to reduce the ability of the water to carry soil particles. The size of the soil particle that a flow of water can carry is a function of the 3rd power of the velocity of the flow. The slower the velocity, the less soil the water can carry. The other function of the filter is to trap soil particles before they exit.

The usual components of a reverse filter are as follows:

-) Concrete sand ((Type B Filter Material, MDOT 704.03)
-) # 89 stone
-) # 57 stone
-) MDOT Section 705.04 riprap (not required, utilize 100 lb to 300 lb if available)

These materials should be stockpiled in a location where they can easily and quickly be moved to the seepage site. Two truckloads of each type of material should be stored in a convenient location that is out of the way. It is best if they are located so that a backhoe or front end loader can pick them up and transfer them directly to the seepage site. Transport schemes that require multiple vehicles and multiple operators are usually impossible to implement at night or on weekends. The stockpiles should be labeled “Emergency Filter Stockpile – Emergency Use Only” to keep them from being appropriated for other purposes by those unaware of their purpose.

To build a reverse filter over a boil or area of concentrated seepage, follow the directions below. A cross section of the reverse filter construction is provided on the next page.

- 1) Clear loose material from around the site.
- 2) Place 6” of #10 washed sand over the area of concern, and extend it for at least 12” beyond the seepage limits.
- 3) Place 6” of #89 stone over the sand, and extend it for at least 6” beyond the sand.
- 4) Place 6” of #57 stone over the sand, and extend it for at least 6” beyond the #89 stone.
- 5) If necessary to stabilize the #57 stone, place rip rap on top of the #57 stone. Conditions that may make the rip rap necessary are anticipated surface flows that might wash away the filter or increasing seepage flows that may try to shift the lighter filter materials.

If the flow is too fast for the sand to remain in place, a layer of #57 stone or riprap may be placed over the boil to slow the flow down. This is followed by a layer of #89 stone, then the sand, and then the #89, #57 and riprap in succession.

Sometimes a seep will pop out on the edge of a newly applied filter. In this case, it is generally necessary to apply the granular filter as a blanket to the general area rather than as a spot treatment. The layers are as described above but will cover a larger area.

Filter fabric or geotextile is not acceptable as a substitute for the sand. The fabric tends to smear and clog if applied in a wet situation.

CROSS SECTION OF A REVERSE FILTER OVER A SEEP OR BOIL

