

EMERGENCY ACTION PLAN

**Bremo Station
North Ash Pond Dam
Department of Conservation and Recreation
Inventory No. 065020
Bremo Bluff, Virginia**

Prepared for:



Dominion Energy Virginia
120 Tredegar Street
Richmond, Virginia 23219

Prepared by:
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Schnabel Reference No. 24560022.010

December 2024

TABLE OF CONTENTS

1.0	BASIC INFORMATION.....	1
2.0	EMERGENCY ACTION PLAN OVERVIEW.....	2
2.1	Emergency Stage Definitions.....	1
3.0	NOTIFICATION.....	3
3.1	Stage 1 Notification.....	3
3.2	Stage 2 Notification.....	4
3.3	Stage 3 Notification.....	6
4.0	STATEMENT OF PURPOSE	7
5.0	PROJECT DESCRIPTION.....	7
5.1	General Vicinity	7
5.2	General Description of Dam.....	8
6.0	EMERGENCY DETECTION, EVALUATION, AND CLASSIFICATION	8
6.1	Reservoir Pool Level.....	9
6.2	Rainfall Depths.....	9
6.3	Observation Frequency.....	9
6.4	Public Roads Downstream of the Dam.....	10
6.5	Additional Emergency Conditions.....	10
6.6	De-Escalation of Stage Conditions	11
7.0	RESPONSIBILITY UNDER THE EAP.....	12
7.1	Dam Owner/Operator Responsibilities.....	12
7.2	Responsibility for Notification.....	12
7.3	Responsibility for Evacuation.....	13
7.4	Responsibility for Termination.....	13
7.5	Responsibility for Stage Follow-Up.....	13
7.6	EAP Coordinator Responsibility.....	14
7.7	Methods for Notification and Warning.....	14
8.0	PREPAREDNESS	14
8.1	Surveillance.....	14
8.2	Routine Inspections.....	14
8.3	Alternative Systems of Communication	15
8.4	Emergency Supplies	15
9.0	INUNDATION ZONE PROPERTY OWNERS AND RESIDENTS.....	15
10.0	CERTIFICATION BY DAM OWNER/OPERATOR.....	15
11.0	CERTIFICATION BY PREPARER	16

TABLES

Table 1: Bremo Station Unit Hazard Potential Classification.....	1
Table 2: Emergency Stage Table	2
Table 3: North Ash Pond Berm Details	8
Table 4: Emergency Conditions	11

APPENDICES

Appendix A:	Analyses of Impounding Structure Failure Floods
Appendix B:	Plans for Training, Exercising, Updating, and Posting the Emergency Action Plan, Revision Sheet, Supplemental Documents
Appendix C:	Additional Resources
Appendix D:	Figures
Appendix E:	East and West Pond Emergency Preparedness Plans

Dominion Energy
Bremo Station – Emergency Action Plan

1.0 BASIC INFORMATION

Table 1: Bremo Station Unit Hazard Potential Classification

Unit	Inventory Number	Hazard Potential Classification		Acreage
		CCR Regulations	Virginia Dam Safety	
North Ash Pond	065020	Significant	High	68

Owner/Operator: Virginia Electric and Power Company, d.b.a. Dominion Energy, Attn: Jason Williams
Bremo Station – 1038 Bremo Road, Bremo Bluff, VA 23022
804-441-3133 (Mobile)

EAP Coordinator: Josh Horner, Construction Project Manager
Bremo Station – 1038 Bremo Road, Bremo Bluff, VA 23022
434-808-4047 (Mobile)

Alternate EAP Coordinator: Will Ruch, Senior Environmental Compliance Coordinator
Bear Garden Generating Station – 2608 C.G. Woodson Road
New Canton, VA 23123
804-845-2682 (Mobile)

Dam Engineer: Michael Winters, P.E.
5000 Dominion Boulevard Glen Allen, VA 23060
804-273-2376 (Business) 804-347-9451 (Mobile)

Local Emergency Contact: Fluvanna County Sheriff and Fire Department
P.O. Box 113 160 Commons Blvd Palmyra, VA 22963
434-589-8211 (24-hr) or local emergency #911

Local Emergency Management Coordinator: Debbie Smith
132 Main Street P.O. Box 540 Palmyra, VA 22963
434-591-1927 (Business) 434-270-6321 (Mobile)

2.0 EMERGENCY ACTION PLAN OVERVIEW

2.1 Emergency Stage Definitions

Three emergency stages, ranked by severity, have been established for the North Ash Pond Dam. For the stages outlined below, the conditions and responsibilities of Stage 2 include those of Stage 1, and the conditions and responsibilities of Stage 3 include those of both Stage 1 and Stage 2.

Stage 1: Non-Emergency – Failure is unlikely and storm development or operational malfunction is slow in advancing to a potential emergency. This stage indicates a situation is developing such that the dam is not in danger of failing, but if it continues, failure may be possible.

Stage 2: Potential Failure – Storm development or operational malfunction that could result in failure of the dam is quickly accelerating. This stage indicates a situation is developing that could result in a dam failure. Declaration of Stage 2 represents a safety emergency and would be considered an activation of the EAP under the CCR Rule.

Stage 3: Imminent Failure – Storm development or operational malfunction has reached a point where failure of the dam has started or is imminent. This stage indicates dam failure is expected or occurring and may result in flooding that could threaten life and/or property downstream of the dam. Declaration of Stage 3 represents a safety emergency and would be considered an activation of the EAP under the CCR Rule.

The Dam Owner, Dam Operator, EAP Coordinator, or Assignee may use Table 2 to assess weather and operational conditions at the dam and determine the appropriate actions for notifying emergency personnel during potential and actual emergencies.

Normal methods for detecting potential emergency situations at the dam consist of surveillance monitoring and observing instrument readings. For conditions beyond the normal range of operations, contact the Local Emergency Management Coordinator for assistance with evaluation of conditions.

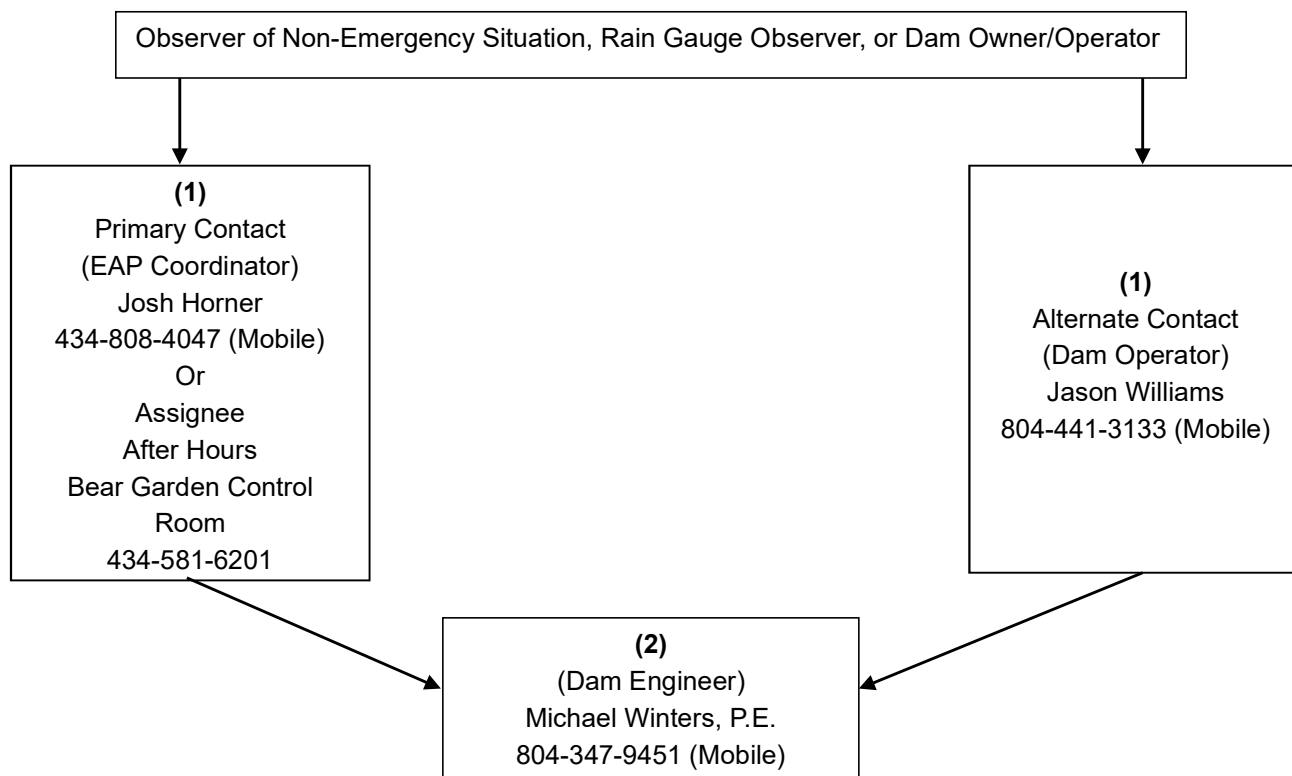
Table 2: Emergency Stage Table

Step 1: Detection and Evaluation	Event Detection: See Section 6		
Step 2: Stage Level	Stage 1	Stage 2	Stage 3
	Non-Emergency • Slowly Developing Situation • See Definition Above	Potential Emergency • Quickly Developing Situation • See Definition Above	Urgent Emergency • Dam Failure is Imminent or In Progress • See Definition Above
Step 3: Notification and Communication	Notification List, See Section 3.1	Notification List, See Section 3.2	Notification List, See Section 3.3
Step 4: Expected Action	• Inspect Dam, Spillway, Staff Gauge, and Rain Gauge every eight hours • Monitor and Listen to Weather Forecasts	• Inspect Dam, Spillway, Staff Gauge, and Rain Gauge every two hours • Notify Emergency Responders	• Continuous Inspection of Dam, Spillway, Staff Gauge, and Rain Gauge • Continuous Contact with Emergency Responders
Step 5: Termination and Follow Up	Termination of Monitoring Conditions at the Dam and Proceed to Evaluate Damages and Plans for Repair		

3.0 NOTIFICATION

3.1 Stage 1 Notification

The following flow chart is to be utilized upon determination of Stage 1 Conditions at the dam:



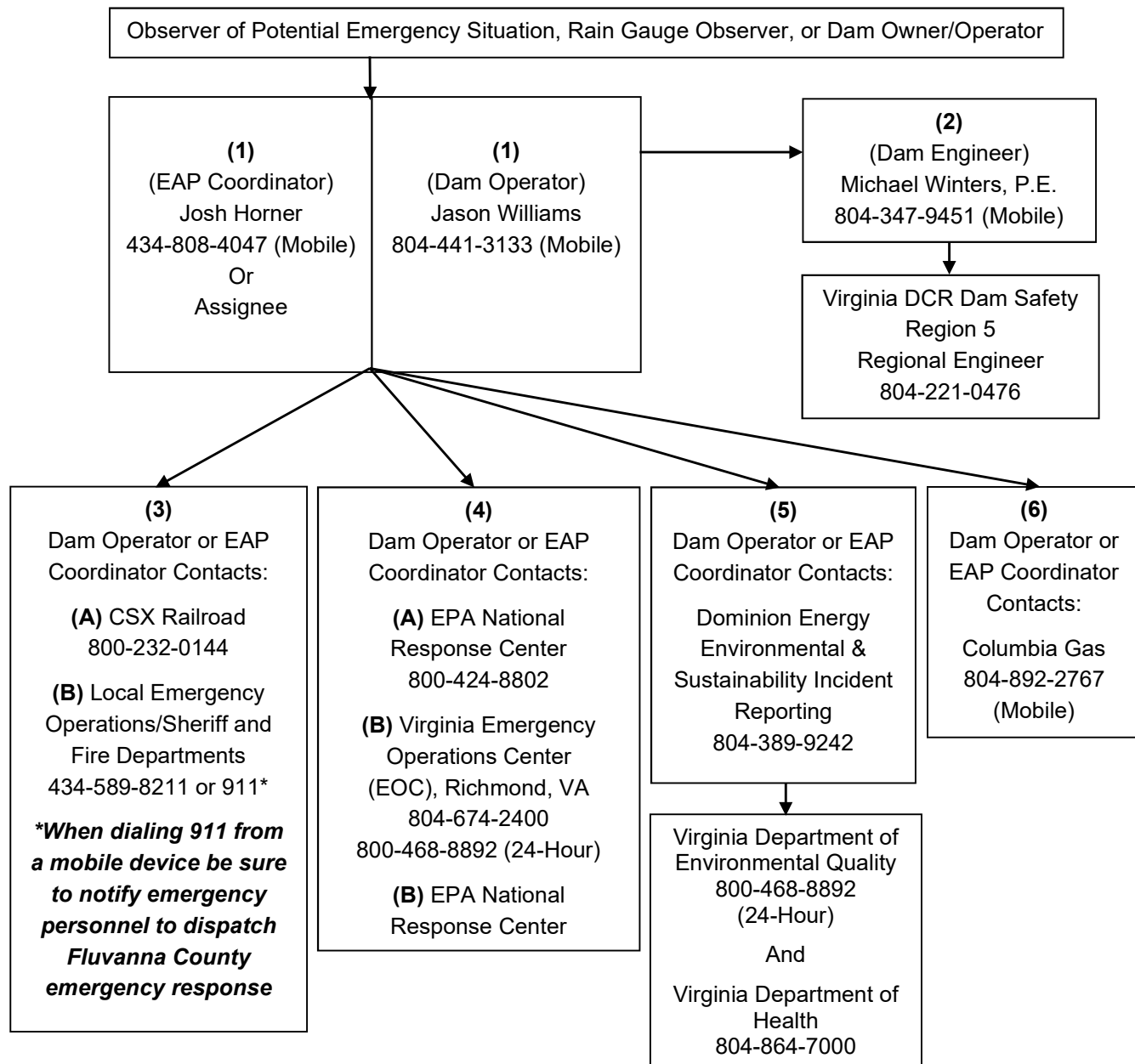
***Note: Please use Appendix B as a reference and log for Stage Notification.**

Message from the dam operator or EAP Coordinator to Dam Engineer:

I am at [or I have been in contact with the observer at] the Bremo Station, and conditions at the North Ash Pond Dam warrant observation as recommended in the Emergency Action Plan. We are currently at Stage 1. If conditions change, we may move to Stage 2 and perform more frequent evaluations. Otherwise, we will visit and make observations every eight hours.

3.2 Stage 2 Notification

The following flow chart is to be utilized upon determination of Stage 2 Conditions at the dam:



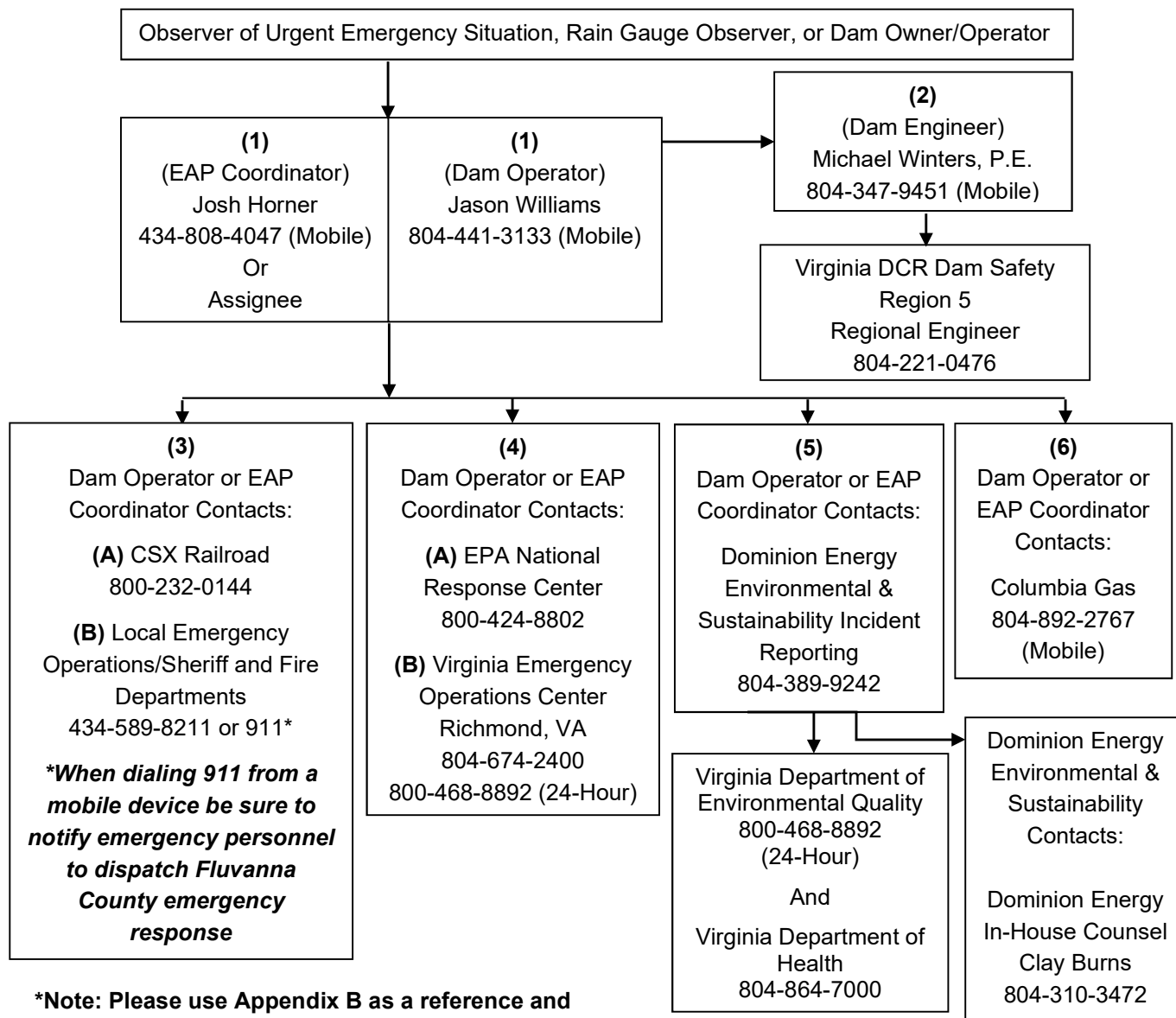
***Note: Please use Appendix B as a reference and log for Stage Notification.**

Message from the dam operator to the EAP Coordinator:

I am at [or I have been in contact with the observer at] the Bremo Station, and conditions at the North Ash Pond Dam have reached the threshold established in the Emergency Action Plan at which to move to the Stage 2 Emergency Level. Please prepare your personnel in case of an emergency and continue to initiate your standard operating procedures. Someone will be observing the dam every two hours.

3.3 Stage 3 Notification

The following flow chart is to be utilized upon determination of Stage 3 Conditions at the dam:



***Note: Please use Appendix B as a reference and log for Stage Notification.**

Message from the dam operator to the EAP Coordinator:

I am at [or I have been in contact with the observer at] the Bremo Station, and conditions at the North Ash Pond Dam have reached the threshold established in the Emergency Action Plan to move to the Stage 3 Emergency Level. Please proceed with the Standard Emergency Procedures. Someone will remain at the dam to monitor continuously until the dam breaks or the water level recedes to safe levels and the Emergency Services Coordinator directs us to terminate our responsibilities.

Note: Standard Emergency Procedures (SEPs) shall include notification of the evacuation team, contacting the National Weather Service (NWS) for rainfall projections, and contacting the State Department of Emergency Management.

4.0 STATEMENT OF PURPOSE

The North Ash Pond is designed and operated pursuant to Virginia Department of Conservation and Recreation (DCR) Dam Safety Regulations and generally accepted engineering practices. Additionally, the North Ash Pond Dam is operated pursuant to the United States Environmental Protection Agency's "Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments" (CCR Rule, 40 CFR §257 Subpart D). The purpose of this Emergency Action Plan (EAP) is to provide critical information and response procedures in the event of an emergency situation at the Bremo Station North Ash Pond Dam, owned and operated by the Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy). The plan addresses the following:

- Delineation of inundation areas downstream of the dam;
- Procedures for determining when to initiate various emergency stage levels;
- Provisions for notification of emergency responders and owners of potentially affected downstream residences and structures;
- Emergency preparedness and exercises; and
- Documentation of evacuation routes.

This plan is intended to meet the requirements of DCR's Impounding Structure Regulations, under which the North Ash Pond Dam is classified as a "high hazard," and the CCR Rule, under which the Dam is classified as a "significant hazard," due to the potential environmental impacts of a failure based on 4VAC50-20-40 and 40 CFR 257.73(a)(2).

5.0 PROJECT DESCRIPTION

5.1 General Vicinity

The Bremo Station is located in Fluvanna County at 1038 Bremo Road, east of Route 15 (James Madison Highway) and north of the James River, as shown on Figure 1. The station was converted from a coal-fired power plant to a natural gas-fired power plant in 2014. CCR from past operations was stored in the three onsite CCR surface impoundments (North Ash Pond, West Ash Pond, and East Pond). No newly generated CCR has been placed in these impoundments since the 2014 conversion to a gas-fired plant.

The North, East, and West Ash Ponds are in the closure process, with CCR removal activities for within the East and West Ash Ponds being completed on May 23, 2019, and March 25, 2020, respectively. Activities included the removal of all CCR material from the East and West Ash Ponds and the placement of CCR material in the North Pond. No CCR material has been placed in the North Pond since March 2019.

The East and West Ponds are regulated as "low hazard" impounding structures. In accordance with the requirements for low hazard impounding structures these dams have approved Emergency Preparedness Plans (EPPs), which are provided in Appendix E for ease of use by the dam operator.

5.2 General Description of Dam

The Bremo Station North Ash Pond is located approximately one mile east of Bremo Bluff, Virginia, in Fluvanna County and is located approximately 1,000 feet north of the James River. The ash pond impounds CCR from past operations at the Bremo Station, as well as CCR excavated from the East and West Ash Ponds, under DCR Inventory Number 065020. The embankment was constructed as part of the Ash Disposal Pond Phase II construction and was completed in 1983. The dam consists of earthen fill

with a clay cutoff key. As of September 2019, the North Ash Pond has been covered with a geosynthetic rain cover. Table 3 provides details of the dam.

Table 3: North Ash Pond Berm Details

Year Constructed	1983
Dam Height	134 feet
Crest Length and Width	1,350 feet by 30 feet
Top of Dam Elevation	334
Normal Pool Elevation	309
Principal Spillway Elevation	Pumped Discharge (Pad EL 328)
Emergency Spillway Crest Elevation	330.5
Principal Spillway Capacity	Self-priming Centrifugal Pump @ 1,500 gpm (3.34 cfs)
Emergency Spillway Capacity	4,600 CFS
Normal Reservoir Capacity	0.3 Ac-ft
Maximum Reservoir Capacity	217 Ac-ft
Current Spillway Design Flood Capacity (SDF)	100% Probable Maximum Flood (PMF)

6.0 EMERGENCY DETECTION, EVALUATION, AND CLASSIFICATION

The dam owner and/or operator is responsible for operation and maintenance of this dam. The dam operator and the field observer are responsible for monitoring conditions at the dam, spillway, and staff gauge and making the appropriate notifications when emergency stage conditions are activated.

The dam owner/operator will initiate this EAP based on the rainfall depth in a 24-hour period, or if conditions at the dam indicate that water levels in the impoundment will rise to the point where there is flow through the principal or emergency spillways. Embankment erosion, appurtenant structure malfunction, or any of the other conditions described in this section may also dictate initiation of the emergency action. While it is the dam owner's responsibility to initiate this process, the Local Emergency Management Coordinator may contact the dam owner to inform the team that an event is imminent, and team members would initiate their duties as outlined in this EAP.

Depth of flow through the principal and emergency spillways is the best indication of flood conditions and should be used as an indicator of the potential impacts downstream. Depth of flow is measured using the staff gauge located in the perimeter channel of the North Ash Pond. In the absence of actual flow depth data through the spillways, measured rainfall depths in inches monitored in the contributing watershed may be used to determine the emergency level. Visual observations should be made by a team member so that accurate and up to date information can be provided to the EAP Coordinator.

6.1 Reservoir Pool Level

Reservoir pool level, associated with the flow depth in the emergency spillway, is the prime indicator of flooding conditions at the North Ash Pond Dam.

Initiate a Stage 1 Condition when the reservoir pool level is at elevation 325.5 feet. This is five feet below the level of the emergency spillway and would provide for increased monitoring as pool levels begin approaching the emergency spillway elevation, and pumped discharge (pad EL 328).

Initiate a Stage 2 Condition when the reservoir pool level is at elevation 330.5 feet. This is the crest elevation of the emergency spillway; and the spillway flow depth would, therefore, be zero feet, but the spillway would be on the verge of discharging.

Initiate a Stage 3 Condition when the reservoir pool level is at elevation 332.0 feet. This would occur when the pool level would be two feet below the dam crest and would indicate that overtopping of the dam embankment could soon occur.

6.2 Rainfall Depths

Rainfall depths for various storm durations are another indicator of potential flooding condition. Rainfall depth will be measured using an on-site rain gauge or projected using the National Weather Service (NWS) or other reputable weather source.

Initiate a Stage 1 condition for the following rainfall depth:
6 inches in 24 hours.

Initiate a Stage 2 condition for the following rainfall depth:
8 inches in 24 hours.

Initiate a Stage 3 condition for the following rainfall depth:
14 inches in 24 hours.

In addition to the automatic activations resulting from the above storms, the dam owner/operator or EAP Coordinator may initiate this EAP based on the issuance of a flood watch or warning in the area if deemed necessary.

6.3 Observation Frequency

Dam, spillway, and staff gauge observations shall occur at frequencies determined by the Emergency Stage condition:

- Stage 1 conditions – observations shall occur every eight hours
- Stage 2 conditions – observations shall occur every two hours
- Stage 3 conditions – continuous observation

An observer can be any person who has the ability to monitor and report observations of the dam at the time of a stage triggering event. Observers should use caution and be aware of the potential for flooded roads along the route to the dam. Monitoring and surveillance of conditions at the dam will continue under emergency conditions as long as safety is not in question.

Note: In the event that conditions are considered unsafe (i.e., wind speed greater than 40 mph, lightning, tornado etc.), conditions will be documented and dam observations will be postponed until conditions improve.

6.4 Public Roads Downstream of the Dam

The area downstream of the North Ash Pond Dam consists of the East Pond and a CSX Transportation railroad line. The railroad line is approximately 850 feet downstream from the toe of the dam. There are no occupied structures or public roads downstream of the dam or in the anticipated inundation zone resulting from an embankment failure.

6.5 Additional Emergency Conditions

The following table describes additional events that could occur independent of a precipitation event or reservoir pool levels. If any of these conditions are observed, Dominion's Power Generation Engineering group, applicable Dominion department, or qualified consultant should be contacted for further discussion, observation, and/or technical direction.

Table 4: Emergency Conditions

Event	Situation
Emergency Spillway and Channel	Visual displacement or movement of the spillway channel with no flow
	Spillway is flowing and erosion/head cutting is observed
Sinkholes	Observation of new sinkhole on embankment
	Rapidly enlarging sinkhole
Embankment Cracking	New cracks in embankment greater than one-quarter inch wide without seepage
	Cracks in embankment with seepage
	Cracks in embankment with rapidly increasing seepage
Embankment Movement	Visual movement of the embankment slope
	Sudden or rapidly progressing slides of the slopes
Vortex in Pond	Whirlpool with discharge downstream
Earthquake	Measurable earthquake with a magnitude of 3.5 within 50 miles of the dam
	Earthquake resulting in visible damage to the dam
	Earthquake resulting in potential uncontrolled release of water from the dam
Security Threat, Sabotage, and Vandalism	Verified bomb threat that, if carried out, could result in damage to the dam
	Detonated bomb that has resulted in damages to the dam or its appurtenances
	Damage to the dam or appurtenances with no impacts to the functioning of the dam
	Damage to the dam or appurtenances that has resulted in seepage flow
	Damage to the dam or appurtenances that has resulted in potential uncontrolled water release

Following a stage activation due to a measurable earthquake, overtopping of the dam, evacuation of inundation areas, or other serious structural problems resulting in a triggering of stage conditions; the dam must be inspected by a professional engineer knowledgeable of the dam site. This inspection may be postponed due to unsafe conditions or lack of accessibility to the site.

6.6 De-Escalation and Termination of Stage Conditions

In the event of an activation due to rainfall or reservoir pool elevation, stage conditions can be terminated after heavy rains have ended, the water levels in the impoundments are below the Stage 1 reservoir pool levels for each dam, the water level is receding, and other emergency conditions have been evaluated by Dominion personnel and determined to not present a hazard to the dam going forward.

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Bremo Station – Emergency Action Plan

In the event of an activation due to structural concerns, as discussed in Section 6.5, stage conditions may be terminated prior to the professional engineer inspection of the dam at the direction of Dominion's Power Generation Engineering group; however, the dam must still be inspected by a professional engineer knowledgeable of the dam site shortly after termination of stage conditions. Documentation of the dam inspection will be added to the activation record.

Termination of stage conditions occurs when all entities notified of the emergency condition have been communicated with and informed of current non-emergency conditions.

Stage conditions can be stepped down when the following conditions are applicable:

Stage 3 to Stage 2

- After heavy rains have ended, the water level in the impoundment is below El 332.0 feet and the water level is receding.
- Other emergency conditions at the dam have stabilized and dam failure is no longer imminent.

Stage 2 to Stage 1

- After heavy rains have ended, the water level in the impoundment is below El 330.5 feet and the water level is receding.
- Other emergency conditions at the dam have stabilized and current conditions are unlikely to threaten the dam.

7.0 RESPONSIBILITY UNDER THE EAP

This section is intended to clearly outline the responsibilities of parties involved in all EAP procedures, including notification, surveillance, classification, evacuation, and termination.

7.1 Dam Owner/Operator Responsibilities

- The Dam Owner/Operator IS RESPONSIBLE for notifying the local Emergency Management Coordinator of any problem or potential problem at the dam site.
- The Dam Owner/Operator/EAP Coordinator WILL DETERMINE when Stage 1 conditions are met at the dam and WILL INITIATE dam surveillance accordingly.
- The Dam Owner/Operator/EAP Coordinator WILL DETERMINE when Stage 2 conditions are met at the dam.
- The Dam Owner/Operator/EAP Coordinator WILL DETERMINE when Stage 3 conditions are met at the dam.
- The Dam Owner/Operator WILL BE RESPONSIBLE for operating pumps as needed for the dam to function effectively.
- The Dam Owner/Operator WILL BE RESPONSIBLE for coordinating with local emergency response personnel to restrict traffic access to Bremo Road under Stage 2 and Stage 3 conditions to ensure public safety.

- The Dam Owner/Operator WILL BE RESPONSIBLE for notifying local emergency response personnel of changes in emergency conditions include stage escalation and de-escalation and termination of the EAP under non-emergency conditions.

7.2 Responsibility for Notification

- The observer of the emergency situation WILL NOTIFY the Dam Owner/ Operator/ EAP Coordinator before beginning dam surveillance under Stage 1 conditions.
- The Dam Owner/Operator/EAP Coordinator WILL NOTIFY the 24-hour dispatch center and the local Emergency Management Coordinator when Stage 2 conditions are met in order to alert them to perform actions required for Stage 2 conditions and to review actions that may be required for the safety and protection of people and property and to mobilize their evacuation team. The Dam Owner/Operator WILL NOTIFY the Regional Dam Safety Engineer and Dominion Power Generation Engineering that Stage 2 conditions have been implemented.
- The Dam Owner/Operator/EAP Coordinator WILL NOTIFY the 24-hour dispatch center and the local Emergency Management Coordinator to initiate warning/evacuation of residents when Stage 3 conditions or imminent dam failure are probable. The Dam Owner/Operator WILL NOTIFY the Regional Dam Safety Engineer and Dominion Power Generation Engineering that Stage 3 conditions have been implemented.
- The Dam Owner/Operator/EAP Coordinator WILL NOTIFY local emergency response personnel of changes in emergency conditions, including stage escalation and de-escalation and termination of the EAP under non-emergency conditions.

Once stage conditions have been activated, the Dam Owner/Operator/EAP Coordinator will continue to provide the EAP Coordinator with information concerning water level rise, erosion in the emergency spillway, and/or dam overtopping, as provided by the dam/spillway/staff gauge observer. It is particularly important for the EAP Coordinator to know when a breach is occurring to evacuate their rescue personnel. The staff gauge observer will remain at the dam until released from duty by the EAP Coordinator or Assignee.

7.3 Responsibility for Evacuation

There will be no evacuation associated with the implementation of this EAP. There are no occupied structures or publicly travelled roads within the inundation zone associated with evacuation.

7.4 Responsibility for Termination

Stage conditions can be rescinded when the following events occur:

- Stage conditions have de-escalated to non-emergency conditions, reference Section 6.6, the EAP Coordinator may terminate or rescind the activation of the EAP.
- All entities notified of the emergency condition have been communicated with and informed of current non-emergency conditions.
- Regional flooding may occur prior to an incident at this dam and could continue for long periods of time. The staff gauge observer needs to have plans for staying or returning to the dam as conditions worsen. The termination responsibility should be handled by the EAP Coordinator or Assignee.

7.5 Responsibility for Stage Follow-Up

- Post-EAP activation event, discussions should be used to determine strengths and weaknesses in the EAP in order to improve the document for future events.
- Per 257.73(a)(3)(v) and 257.105(f)(8) of the CCR Rule, the EAP Coordinator or designee should prepare documents recording the activation of the EAP event, reference Appendix B. Only Stage 2 and Stage 3 are considered CCR Rule activations, see Section 2.0.

7.6 EAP Coordinator Responsibility

The EAP coordinator or Assignee will be responsible for EAP-related activities, including (but not limited to) preparing revisions to the EAP, establishing training seminars, and coordinating annual face-to-face EAP exercises between representatives of the Owner/Operator, local emergency responders, and additional federal and state agencies. This person will be the EAP contact if any involved parties have questions about the EAP.

7.7 Methods for Notification and Warning

Fluvanna County Emergency Services has the authority and responsibility for Mass Notification, Alert and Warning, and Population Protective Actions for all offsite facilities.

During an emergency condition, the EAP Coordinator will communicate timely information about conditions at the dam to the Fluvanna County Emergency Management Coordinator, who will initiate their own emergency notifications and action.

8.0 PREPAREDNESS

This section is intended to clearly outline the responsibilities of parties involved in all EAP procedures, including notification, surveillance, classification, evacuation, and termination.

8.1 Surveillance

This dam is unattended and monitored under normal operating conditions for the duration of closure activities.

Bremo Station management and staff should monitor the status of weather fronts through the NWS. The NWS maintains a hurricane center that reports on hurricanes, tropical storms, and tropical depressions as they travel and affect coastal and inland areas. The website address is <http://www.nhc.noaa.gov/>.

The station is not staffed 24/7; however, there is one staff member dedicated to Bremo Station Monday through Friday during normal business hours. After hours, the staff from Bear Garden Generating Station are on call to support emergencies. An operator should be dispatched from the on-shift crew to observe the staff gauge during an emergency situation. The staff gauge observer should never put themselves in harm's way. In the event a tornado, hurricane, or tropical depression occurs with high winds, the staff gauge observer shall use extreme caution while monitoring conditions.

Pre-planned access routes should be utilized, given that small streams crossing under state and local roads may flood, preventing safe access. The gauge observers and Dam Safety Region staff should never attempt to cross a road that has floodwater crossing it at a depth greater than one foot unless the vehicle is specially designed for that purpose.

Alternative routes should be chosen for access by foot in the event that a car is unsafe for use. Other alternative means of transportation may be considered.

8.2 Routine Inspections

The North Ash Pond Dam is inspected every seven days by the Environmental Compliance Coordinator (ECC) or other qualified person in accordance with applicable CCR regulations. If any findings trigger an action level, the EAP will be put into place immediately. Any findings in question will be discussed with a Dominion Power Generation Engineer and a resolution determined by the next seven-day inspection. Any maintenance needs will be relayed to the ground's contractor or landfill contractor within one calendar week.

8.3 Alternative Systems of Communication

Communications during a major rainfall event may be problematic. Telephone land lines may be used as the first means of communication. Cellular telephones can be used to supplement the land lines. Unfortunately, telephone lines, like electrical lines, are subject to damage by falling trees, so radio communication during these events is normally required.

8.4 Emergency Supplies

Stockpiling of Materials and Equipment: The location of necessary supplies and materials, such as barricades, sand, sandbags, etc., are either stored onsite or readily available through Dominion's emergency response contractors.

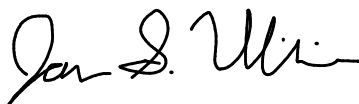
Emergency access to supplies and equipment should be planned before any emergency is called. Appendix C lists sources and locations of supplies and equipment that may be required during an emergency along with addresses and telephone numbers of the sources/suppliers.

9.0 INUNDATION ZONE PROPERTY OWNERS AND RESIDENTS

Inundation Maps are presented in Appendix D. CSX Transportation (800-232-0144) is the only property owner located within the dam's anticipated inundation zone resulting from an embankment failure for the Bremo Station North Ash Pond Dam.

10.0 CERTIFICATION BY DAM OWNER/OPERATOR

I certify that procedures for implementation of this Emergency Action Plan have been developed pursuant to 40 CFR §257.73(a)(3) of the CCR Rule and coordinated with and a copy given to each local Emergency Services Coordinator serving the areas potentially impacted by the dam. Also, that a copy of this Emergency Action Plan has been filed with the Virginia Department of Emergency Management in Richmond, and a copy of the Dam Break Inundation Map has been provided to the local government office with plat and plan approval authority or zoning responsibilities, as designated by the locality for each locality in which the dam break inundation zone resides; that this plan shall be adhered to during the life of the project; and that the information contained herein is current and correct to the best of my knowledge.



(Signature of Dam Owner/Operator)

Date: Dec 12, 2024

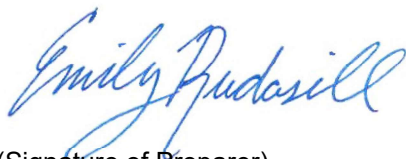
Printed Name: Jason S. Williams

Title: PG Director, Station III

11.0 CERTIFICATION BY PREPARER

By means of this certification, the undersigned Licensed Professional Engineer attests that he/she is familiar with the requirements of 40 CFR §257.73(a)(3) and the Department of Conservation and Recreation regulations. This certification also demonstrates that the Emergency Action Plan is prepared in accordance with good engineering practices, including consideration of applicable industry standards, and with the requirements of 40 CFR §257.73; that procedures for required inspections and testing have been established; and the EAP is adequate for the Bremo Station North Ash Pond.

This certification in no way relieves the owner or operator of a facility/site of his duty to prepare and fully implement the plan in accordance with the requirements of 40 CFR §257.73.



(Signature of Preparer)

Date: December 11th, 2024

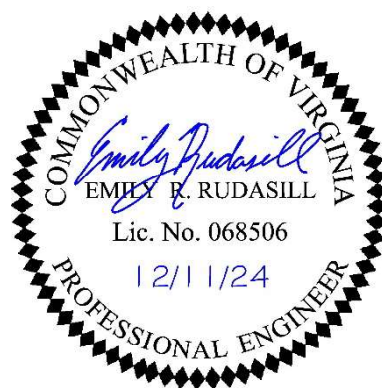
Printed Name: Emily Rudasill

Title: Project Engineer

Address: 9800 JEB Stuart Parkway, Suite 100

Glen Allen, VA 23059

Telephone: 804-649-7035



APPENDIX A

ANALYSES OF IMPOUNDING STRUCTURE FAILURE FLOODS

APPENDIX A
Analyses of Impounding Structure Failure Flood

The structure failure flood for Bremo Station North Ash Pond Dam is the Probable Maximum Flood event. A complete hydraulic and hydrologic analysis is presented in the North Ash Pond Dam Alteration Permit Application, prepared by Golder Associates, Inc., dated March 2017.

APPENDIX B

PLANS FOR TRAINING, EXERCISING, UPDATING, AND POSTING THE EMERGENCY ACTION PLAN, REVISION SHEET, SUPPLEMENTAL DOCUMENTS

APPENDIX B
Plans for Training, Exercising, Updating, and Posting the Emergency Action Plan

1. Training

Emergency action planning, generally, will be held once a year for responsible staff personnel.

2. Exercises

- a. Table Top Exercises - Table top exercises will be held, at a minimum, once every six (6) years. This exercise will occur in the year that certification is required.
- b. Drills - A drill will be conducted each year by the owner except when a table top exercise is required.
- c. Annual drills will be conducted to verify lines of communication, phone numbers, personnel roles, and responsibilities. All parties on the Stage II/III notification flowchart are invited and encouraged to attend; however, attendance from station personnel is mandatory. Record the invitation of the drill to emergency response representatives and the drill attendance and details in the Training Record.

3. Updating

This EAP will be checked yearly during the drill exercise to determine if names, addresses, and telephone numbers of the people shown in Section 1 are accurate. The document will be updated at any time when a major change is determined to have occurred and noted in the plan's revision log.

If an annual review of the EAP indicates that no amendments are necessary, a note shall be placed in the revision log noting that no changes were made during the annual review.

4. Posting

This document will be on file with:

- Dominion Energy (Dam Owner)
- Fluvanna County Emergency Operations Center
- VA Department of Conservation and Recreation (DCR), Division of Dam Safety
- VA Department of Emergency Management

EAP Training Record
Bremo Station North Ash Pond
Inventory # 065020

[illegible]

**EAP Revision Record
Bremo Station Ash Ponds
Inventory # 065020**

<u>Revision No.</u>	<u>Date Entered</u>	<u>Changed By</u>	<u>Description of Change</u>
Original	April 2017		
1	November 2017	Golder Associates, Inc.	Updated ECC and various other updates
2	September 2018	Golder Associates, Inc.	Addition of Inactive Ponds per CCR Regulations Update DCR Inventory Numbers
3	October 2019	Golder Associates, Inc.	Annual Update
4	November 2020	Golder Associates, Inc.	Removal of Low Hazard ponds per CCR Regulations
5	November 2021	Golder Associates, Inc.	Annual Update
6	December 2022	WSP Golder	Annual Update
7	January 2024	WSP USA, Inc.	Annual Update
8	December 2024	Schnabel Engineering	Annual Update
9			
10			
11			
12			
13			
14			

**Bremo Station – North Ash Pond Emergency Action Plan
Notification Log**

Contact Name/Agency	Phone Number	Person Notified	Time Notified
Refer to Notification Process in the Emergency Action Plan			
Stage 1 Notifications			
(EAP Coordinator) Josh Horner/Dominion Energy	434-808-4047 (mobile)		
(Alternate EAP Coordinator) Will Ruch/Dominion Energy	804-845-2682 (mobile)		
(Dam Operator) Jason Williams/Dominion Energy	804-441-3133 (mobile)		
(Dam Engineer) Michael Winters/Dominion Energy	804-347-9451 (mobile)		
Bear Garden Control Room (Afterhours)	434-581-6201		
Stage 2 Notifications			
(EAP Coordinator) Josh Horner/Dominion Energy	434-808-4047 (mobile)		
(Alternate EAP Coordinator) Will Ruch/Dominion Energy	804-845-2682 (mobile)		
(Dam Operator) Jason Williams/Dominion Energy	804-441-3133 (mobile)		
(Dam Engineer) Michael Winters/Dominion Energy	804-347-9451 (mobile)		
Bear Garden Control Room (Afterhours)	434-581-6201		
Local Emergency Operations/Fluvanna County/Sheriff and Fire Department	434-589-8211 or 911		
CSX Railroad	800-232-0144		
Virginia Emergency Operations Center	804-674-2400 800-468-8892 (24-hour)		
EPA National Response Center	800-424-8802		
Virginia DCR Dam Safety Region 5	804-221-0476		
Environmental & Sustainability Incident Reporting/Dominion Energy	804-389-9242		
Virginia Department of Environmental Quality	800-468-8892 (24-hour)		
Columbia Gas of Virginia	804-892-2767 (mobile)		
Virginia Department of Health	804-864-7000		
Stage 3 Notifications			
(EAP Coordinator) Josh Horner/Dominion Energy	434-808-4047 (mobile)		
(Alternate EAP Coordinator) Will Ruch/Dominion Energy	804-845-2682 (mobile)		
(Dam Operator) Jason Williams/Dominion Energy	804-441-3133 (mobile)		
(Dam Engineer) Michael Winters/Dominion Energy	804-347-9451 (mobile)		
Bear Garden Control Room (Afterhours)	434-581-6201		
Local Emergency Operations/Fluvanna County/Sheriff and Fire Department	434-589-8211 or 911		
CSX Railroad	800-232-0144		
Virginia Emergency Operations Center	804-674-2400 800-468-8892 (24-hour)		
EPA National Response Center	800-424-8802		
Virginia DCR Dam Safety Region 5	804-221-0476		
Environmental & Sustainability Incident Reporting/Dominion Energy	804-389-9242		
Virginia Department of Environmental Quality	800-468-8892 (24-hour)		
Columbia Gas of Virginia	804-892-2767 (mobile)		
Virginia Department of Health	804-864-7000		
Dominion Energy In-House Counsel: Clay Burns	804-310-3472		



BREMO STATION EMERGENCY ACTION PLAN

ACTION LOG

Impoundment Name:	Inspected By:
Date of Inspection:	EAP Coordinator:

WEATHER CONDITIONS:

One Action Log Per Event	Time of Stage Implementation	Time of Stage Termination
Stage 1 Condition: (Observation Required every 8 hours)		
Stage 2 Condition: (Observation Required every 2 hours)		
Stage 3 Condition: (Continuous observation required)		

Time	Observer Name	Observations/Condition of Dam/Description of Concern/Failure *Note adverse conditions/inability to observe



BREMO STATION EMERGENCY ACTION PLAN

ACTION LOG

Time	Observer Name	Observations/Condition of Dam/Description of Concern/Failure *Note adverse conditions/inability to observe

General Comments/Event De-Brief Notes:

APPENDIX C

ADDITIONAL RESOURCES

APPENDIX C
Additional Resources

Directory of Additional Personnel with Dam Safety Expertise

In addition to personnel shown elsewhere in this plan, the following list identifies other individuals with expertise in dam safety, design, and construction that may be consulted about taking specific actions at the dam when there is an emergency situation:

Name	Telephone	Responsibility
DCR, Division of Dam Safety	804-221-0476	Dam Safety Regional Engineer
Schnabel Engineering, Inc. Andrew North, P.E.	804-314-5488 (mobile)	Consulting Design Engineer

Supplies and Resources

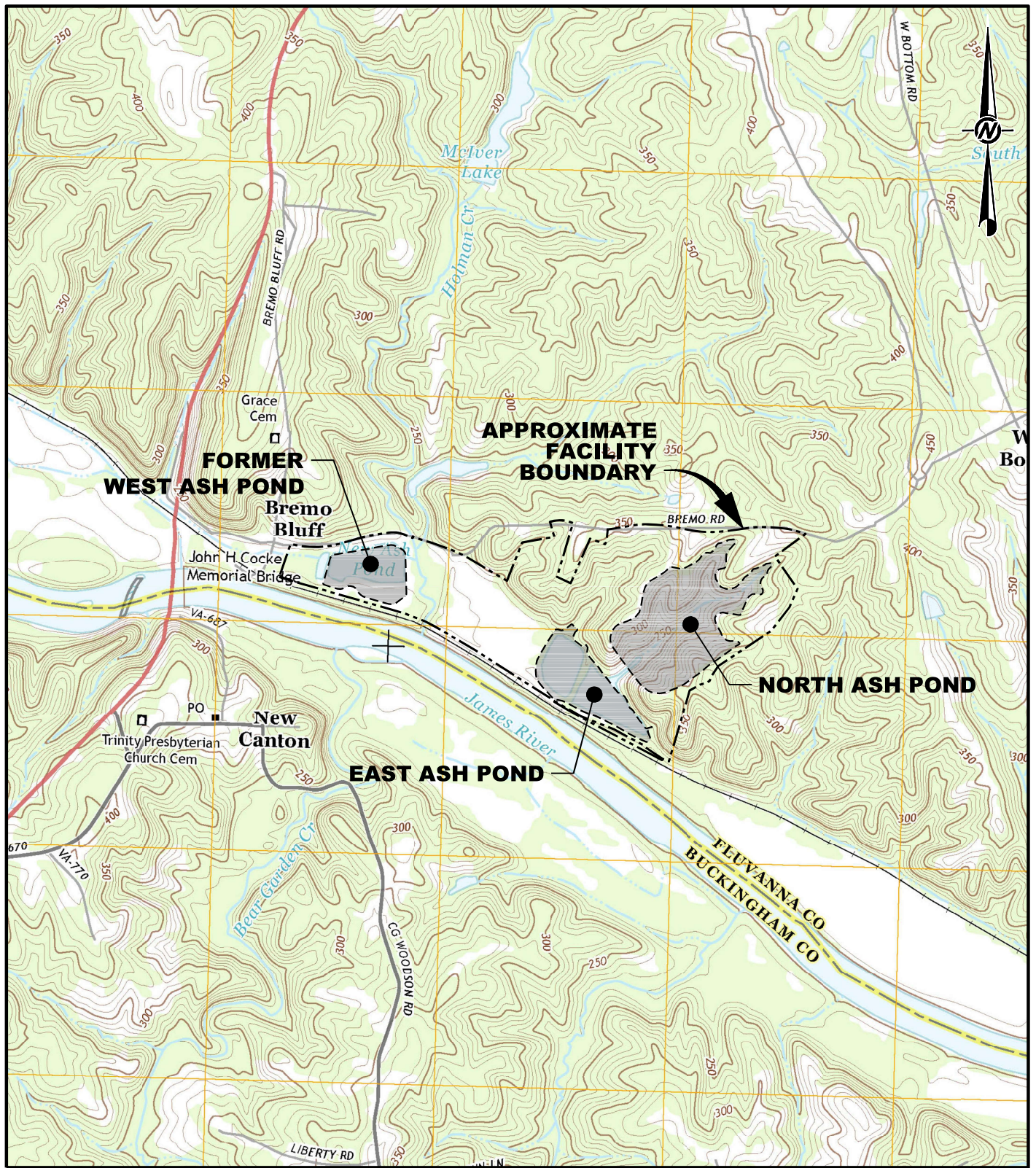
Equipment Available	Location	Phone Number
Sand/Sand Bags	Luck Stone	804-749-3233
	Buckingham – Virginia Slate Company	434-581-1131
Rock/Gravel	Luck Stone	804-749-3233
	Buckingham – Virginia Slate Company	434-581-1131
Pumps/Generators/Lights	Sunbelt Rentals	804-364-6319
	RSC Equipment Rentals	800-222-7777
	Pearson Equipment Co.	434-391-1112
Heavy Equipment	Forty-Two Contracting, Inc. Pete Snead	804-377-2270 (office) 804-638-0430 (mobile)

Personnel Resources/Labor

Company	Contact	Phone Number
Dominion Energy	Josh Horner	434-808-4047 (mobile)
Laborers	Forty-Two Contracting, Inc. Pete Snead	804-377-2270 (office) 804-638-0430 (mobile)
Dominion Bear Garden Generating Station	Control Room and Maintenance Operator	434-581-6201

APPENDIX D

FIGURES



REFERENCE

BASE MAP CONSISTS OF 7.5-MINUTE USGS TOPOGRAPHIC QUADRANGLE NAMED ARVONIA, VIRGINIA, DATED 2013.

CLIENT
DOMINION ENERGY

CONSULTANT



YYYY-MM-DD 2018-06-15

DESIGNED ALR

PREPARED SIB

REVIEWED ALR

APPROVED MGW

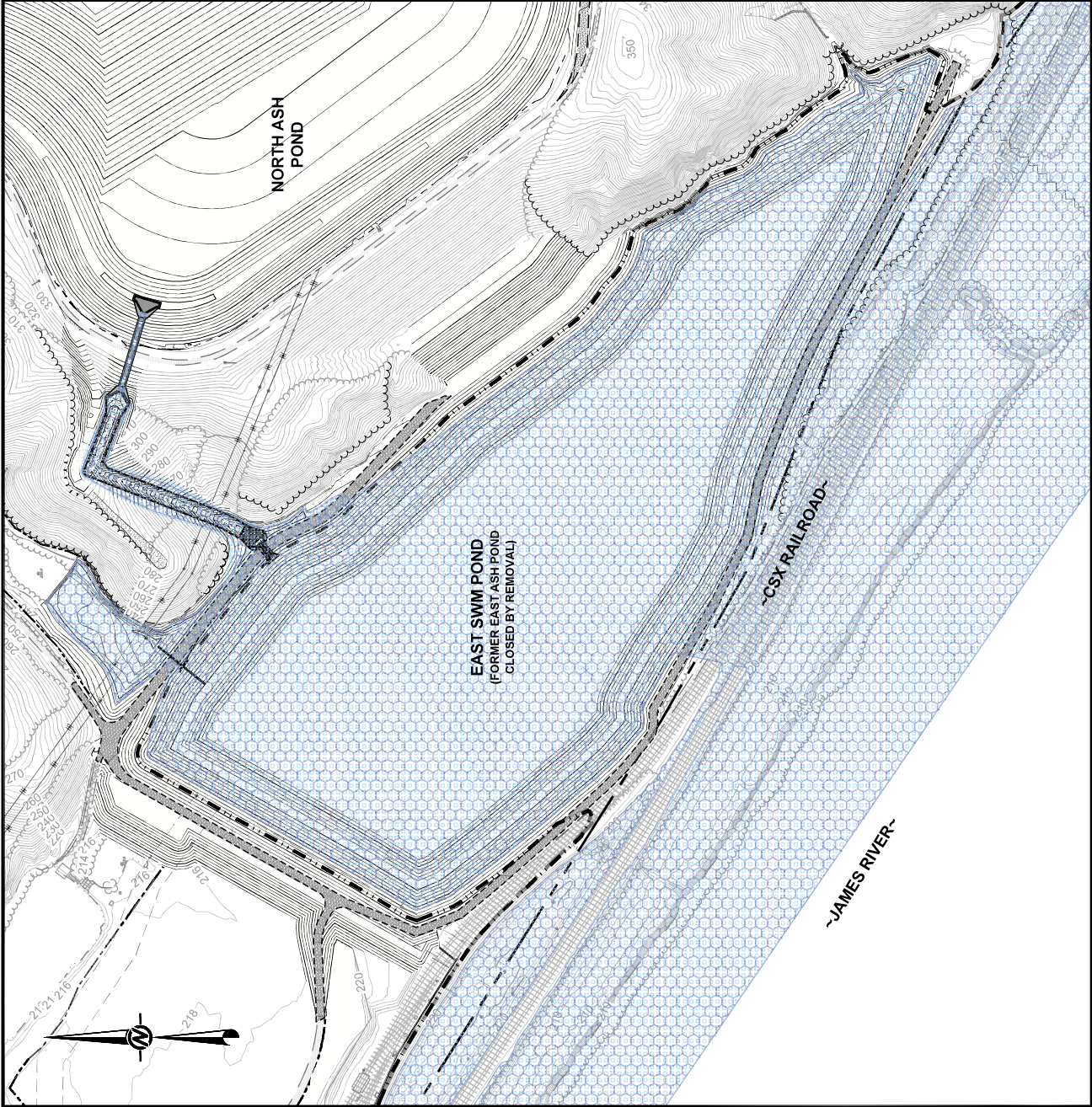
PROJECT
BREMO POWER STATION
FLUVANNA COUNTY, VIRGINIA

TITLE
SITE LOCATION MAP

PROJECT NO.
17-8975418

REV.
0

FIGURE
1



LEGEND

- PMF BREACH - AREA SUBJECT TO FLOOD FLOW AND VELOCITY
- PMF NON-BREACH - AREA SUBJECT TO FLOOD FLOW AND VELOCITY
- EXISTING TOPOGRAPHIC CONTOUR (10' INTERVAL)
- EXISTING TOPOGRAPHIC CONTOUR (2' INTERVAL)
- PROPERTY LINE
- PROPOSED TOPOGRAPHIC CONTOUR (10' INTERVAL)
- PROPOSED TOPOGRAPHIC CONTOUR (2' INTERVAL)
- 100 - YR FLOOD PLAIN (ZONE A E)

NOTES

- MAPPING OF FLOODED AREAS AND FLOOD WAVE TRAVEL TIMES ARE APPROXIMATE. TIMING AND EXTENT OF ACTUAL INUNDATION MAY DIFFER FROM INFORMATION PRESENTED ON THIS MAP.
- EXISTING CONDITIONS COMPILED FROM:
 - AERIAL TOPOGRAPHIC SURVEY PREPARED BY MCKENZIE SNYDER, INC., DATE OF AERIAL PHOTO: 1/16/15 [CONTROL PREPARED BY H&B SURVEYING & MAPPING (H&B)]
 - BOUNDARY SURVEY PREPARED BY H&B SURVEYING AND MAPPING, LLC DATED 04/27/15.
 - HISTORICAL DATA FOR THE DEVELOPMENT OF THE WEST ASH POND, EAST ASH POND AND NORTH ASH POND.
- PROPOSED GRADING FOR NORTH AND EAST ASH PONDS PER "CCR SURFACE IMPOUNDMENT CLOSURE PLAN" BY GOLDER ASSOCIATES INC. DATED DECEMBER 2016.
- 100 - YEAR FLOOD PLAIN ELEVATION (ZONE A E) PER PANEL #51065C0260C.



FIGURE 2



DOMINION
BREMO POWER STATION
FLUVANNA COUNTY, VIRGINIA

NORTH ASH POND
DCR INVENTORY #06520
BOTH PMF SCENARIOS

PROJECT No.	15-20347
FILE No.	150347-404
REV. 0	SCALE AS SHOWN
DESIGN	DPW 12/17/2015
CADD	JB 03/02/2017
CHECK	JEK 11/06/2017
REVIEW	DPW 11/06/2017

APPENDIX E

East and West Pond Emergency Preparedness Plans

Date Prepared: 12/16/2024
Prepared By: Emily Rudasill

EMERGENCY PREPAREDNESS PLAN FOR LOW HAZARD VIRGINIA REGULATED IMPOUNDING STRUCTURES

Reference: Impounding Structures Regulations, 4VAC 50-20-10 et seq., including 4VAC 50-20-177, Virginia Soil and Water Conservation Board

1. Name of Impounding Structure: Bremo Power Station East Ash Pond Dam
Inventory Number: 065019 City/County: Fluvanna County
Other Name (if any): _____
Stream Name: James River
Latitude: 37°42'187.5"N Longitude: 78°16'47.0"W

2. Name of Owner: Virginia Electric and Power Company d/b/a Dominion Energy Attn. Michael Winters
Address: 5000 Dominion Boulevard, Glen Allen, VA
Telephone: (Residential) _____ Mobile: (804) 347-9451 (Business) (804) 273-2376
Other means of communication: Michael.j.winters@dominionenergy.com
(Note: 24-hour telephone contact required)

3. Name of Impounding Structure Operator: Jason Williams
Address: Bremo Station 1038 Bremo Road, Bremo Bluff, VA 23123
Telephone: (Residential) _____ Mobile: (804) 441-3133 (Business) _____
Other means of communication: Jason.s.williams@dominionenergy.com
(Note: 24-hour telephone contact required)

Name of Alternate Operator: Will Ruch
Telephone: (Residential) _____ Mobile: (804) 845-2682 (Business) (434) 581-6201 (after hours)
Other means of communication: William.p.ruch@dominionenergy.com
(Note: 24-hour telephone contact required)

4. Name of Rainfall and Staff Gage Observer for Dam: Josh Horner
Address: Bremo Station, 1038 Bremo Rd., Bremo Bluff, VA 23022
Telephone: (Residential) _____ Mobile: (434) 808-4047 (Business) _____
Other means of communication: Josh.s.horner@dominionenergy.com
(Note: 24-hour telephone contact required)

Name of Alternate Rainfall and Staff Gage Observer: Will Ruch
Telephone: (Residential) _____ Mobile: (804) 310-5416 (Business) (434) 581-6201 (after hours)
Other means of communication: William.p.ruch@dominionenergy.com
(Note: 24-hour telephone contact required)

5. 24-Hour Dispatch Center Nearest Impounding Structure – Police/Fire/Sheriff's Department: _____
Local Emergency Operations / Fluvanna County Sheriff's Office
Address: 160 Commons Blvd, Palmyra, VA 22963
24-Hour Telephone: (434) 589-8211 or 911

6. Name of City/County Emergency Services Coordinator(s): Debbie Smith, Fluvanna County

Address: 132 Main Street, P.O. Box 540, Palmyra, VA 22963

Telephone: Business: (434) 591-1927 Mobile: (434) 270-6321

Other means of communication dsmith@fluvannacounty.org

(Note: 24-hour telephone contact required)

7. Describe the procedure and the responsible parties for notifying to the extent possible any known local occupants, owners, or lessees of downstream properties potentially impacted by the dam's failure.

There are no occupied structures located in the inundation zone. The CSX railway to the south of the embankment is partially within the inundation zone. CSX Transportation will be contacted by the local emergency management officials in the event of a possible imminent failure. CSX Contact Number: 800-232-0144.

8. Discuss the procedures for timely and reliable detection, evaluation, and classification of emergency situations considered to be relevant to the project setting and impounding features. Each relevant emergency situation is to be documented to provide an appropriate course of action based on the urgency of the situation

The dam is unattended but monitored under normal operating conditions. Inspections are completed every seven days in accordance with the CCR regulations. An onsite staff gage is monitored remotely to track water levels within the impoundment. Defects, areas of distress, or other observations indicating abnormal conditions are communicated to Dominion personnel. An onsite weather station is monitored remotely to track rainfall. If observations indicate a Stage I, II, or III Conditions, additional action and communications will be made, as detailed in this plan.

9. Attach a simple dam break inundation map, demonstrating the general inundation that would result from an impounding structure failure.

10. If there are public roads downstream from the impounding structure, identify by highway number and distance below dam:

Route # N/A , _____ Miles

Route # _____ , _____ Miles

Route # _____ , _____ Miles

Route # _____ , _____ Miles

Provide name of resident engineer, VA Department of Transportation, (or City/County engineer):

N/A

Address: _____

Telephone: (Residential) _____ (Business) _____

Other means of communication: _____

(Note: 24-hour telephone contact required)

Definitions:

Stage I Condition – A flood watch, or heavy continuous rain or excessive flow of water from ice or snow melt.

Stage II Condition – A flood watch, or emergency spillway activation or dam overtopping/breach may be possible.

Stage III Condition – Emergency spillway activation, dam overtopping or imminent failure is probable.

11. Amount of rainfall that will initiate a:

Stage II Condition	_____	Inches per 6 hrs.
	_____	Inches per 12 hrs.
	8	Inches per 24 hrs.
Stage III Condition	_____	Inches per 6 hrs.
	_____	Inches per 12 hrs.
	11	Inches per 24 hrs.

The amount of flow in the emergency spillway that will initiate a:

Stage II Condition	_____	Feet (depth of flow)
Stage III Condition	1	Feet (depth of flow)

Total depth of emergency spillway available before crest of dam is overtopped: 2 Feet

12. Does a staff gage exist? ☒ Yes ☐ No

Staff Gage Location and Description: An electronic level transducer has been installed along the southern embankment of the East Pond, which provides continuous monitoring and reporting through an online system. A digital display is located at the Instrumentation location, for readings on site.

Frequency of observations by rainfall/staff gage observer during a:

Stage I Condition	Every 8 hours	
Stage II Condition	Every 2 hours	
Stage III Condition	Continuous	(recommend continuous)

Clearly identify access route and means of monitoring during flood conditions at the dam.

The pond staff gage may be monitored remotely during flood conditions. If the remote system is not functioning during flood conditions, on-site monitoring may be necessary.

The station is not staffed 24/7, however, there is one staff member dedicated to Bremono Power Station Monday through Friday during normal business hours. After hours, the staff from Bear Garden Generating Station (located on the southern side of the James River) are on call to support emergencies.

An operator should be dispatched from the on-shift crew to observe the staff gauge during flood conditions. The staff gauge observer should never put themselves in harm's way. In the event a hurricane or tropical depression occurs with high winds, the staff gauge observer shall use extreme caution while monitoring conditions. If the observer is unable to access a safe monitoring location to observe conditions at the ponds. The Scottsville river gauge is used as a remote monitoring point to predict the river stage at the station.

The site can be accessed by Bremono Road from the east or west.

Preplanned access routes should be utilized, given that small streams crossing under state and local roads may flood, preventing safe access. The gauge observers and Dam Safety Region staff should never attempt to cross a road that has flood water crossing it at a depth greater than one foot unless the vehicle is specially designed for that purpose.

Alternative routes should be chosen for access by foot in the event a car is unsafe for use. Other alternative means of transportation may be considered.

Note: It is recommended that the Observer remain on post until potentially serious or serious conditions subside.

13. Evacuation Procedures:

- a. The dam owner/operator should notify the local emergency services office (i.e., the city/county 24-hour dispatch center). Phone number should be listed in #5 above.
 - b. Once the local emergency services office has been notified of any problem at a dam site, it should take appropriate protective measures in accordance with the local Emergency Operations Plan and this Emergency Preparedness Plan. Local emergency services actions will include:
 - (1) Notify the individuals who own downstream property
 - (2) Begin Alert, Notification, and Warning
 - (3) Immediately evacuating the inundation areas, when stage III conditions warrant.
 - (4) Begin Emergency Public Information procedures open emergency shelters.
 - (5) Provide Situation Reports to the State Emergency Operations Center (804) 674-2400 or (800) 468-8892.
 - c. Once the local government has been notified of a condition requiring evacuation, the dam owner/operator and local government are mutually responsible for effecting evacuation.
 - (1) The dam owner/operator will: There are no occupied structures within the inundation zone. The dam operator will continue to monitor the situation and communicate timely information about conditions to the Fluvanna County Emergency Management Coordinator.

 - (2) Local emergency services will: Fluvanna County Emergency Services has the authority and responsibility for Mass Notification, Alert, and Warning, if necessary.

 - d. Methods for notification and warning to evacuate include: N/A
Check appropriate method(s)
 - (1) Telephone
 - (2) Police/fire/sheriff radio dispatch vehicles with loudspeakers, bullhorns, etc.
 - (3) Personal runners for door-to-door alerting
 - (4) Radio/television broadcasts for areas involved
-

CERTIFICATION BY OWNER

I certify that a copy of this plan has been filed with Fluvanna County
(City/County) and Mrs. Debbie Smith (Name), the local Emergency Services Coordinator. Also,
that a copy of this form has been filed with the State Department of Emergency Management; that this plan shall be adhered to during
the life of the project; and that the information contained herein is current to the best of my knowledge.

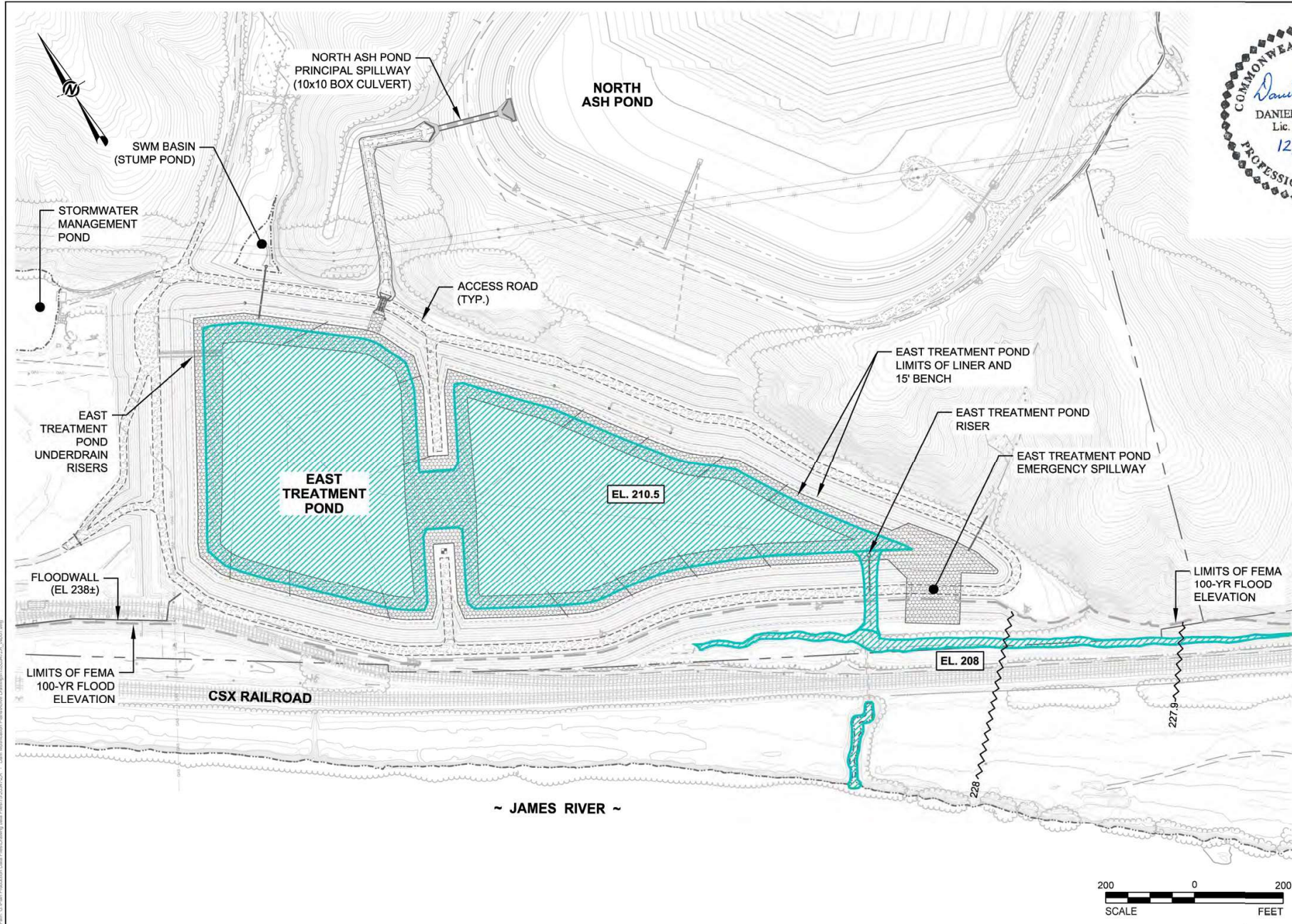
Signed:  Jason S Williams
Owner's Signature Print Name

This 16 day of December, 20 24.

Please fill out and mail to:

Virginia Department of Emergency Management
Plans Division
10501 Trade Court
Richmond, Virginia 23236

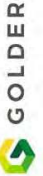
**Mail the executed form to the appropriate
Department of Conservation and Recreation
Division of Dam Safety and Floodplain Management
Regional Engineer**

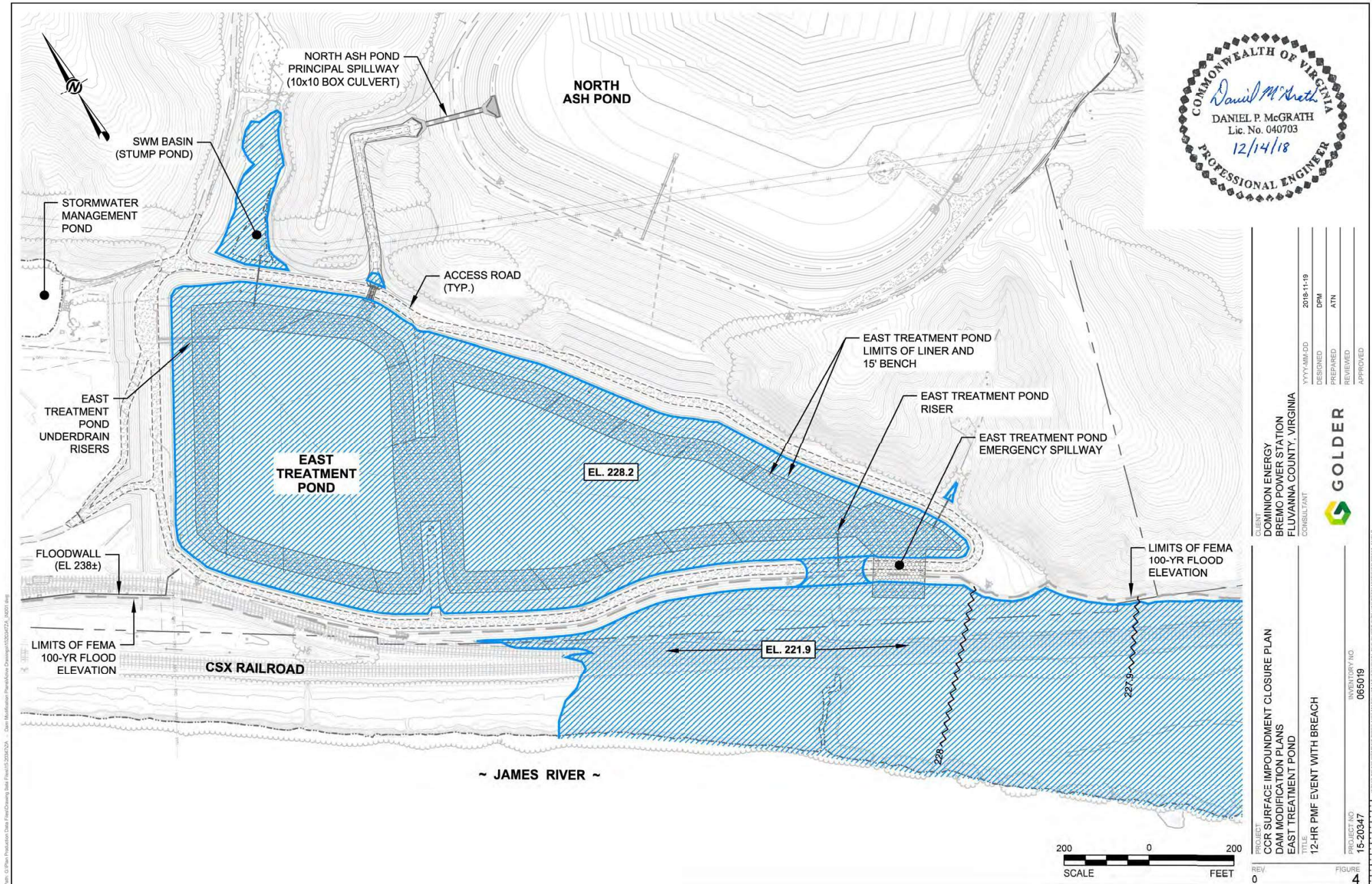


CLIENT	DOMINION ENERGY	2018-11-19
PROJECT	BREMO POWER STATION	DPM
LOCATION	FLUVANNA COUNTY, VIRGINIA	ATN
CONSULTANT		REVIEWED
		APPROVED

PROJECT	CCR SURFACE IMPOUNDMENT CLOSURE PLAN	INVENTORY NO.
	DAM MODIFICATION PLANS	065019
	EAST TREATMENT POND	
TITLE	SUNNY DAY BREACH	

PROJECT NO.	15-20347
FIGURE	2





CLIENT DOMINION ENERGY BREMO POWER STATION FLUVANNA COUNTY, VIRGINIA CONSULTANT	2018-11-19 DPM ATN
	2018-11-19 DPM ATN
	2018-11-19 DPM ATN
	2018-11-19 DPM ATN
PROJECT CCR SURFACE IMPOUNDMENT CLOSURE PLAN DAM MODIFICATION PLANS EAST TREATMENT POND 12-HR PMF EVENT WITH BREACH	INVENTORY NO. 065019 PROJECT NO. 15-20347
REV. 0	FIGURE 4



Date Prepared: 12/16/2024
Prepared By: Emily Rudasill

EMERGENCY PREPAREDNESS PLAN FOR LOW HAZARD VIRGINIA REGULATED IMPOUNDING STRUCTURES

Reference: Impounding Structures Regulations, 4VAC 50-20-10 et seq., including 4VAC 50-20-177, Virginia Soil and Water Conservation Board

1. Name of Impounding Structure: Bremo Power Station West Ash Pond Dam
Inventory Number: 065011 City/County: Fluvanna County
Other Name (if any): _____
Stream Name: James River
Latitude: 37°42'40.6" N Longitude: 78°17'33.7"

2. Name of Owner: Virginia Electric and Power Company d/b/a Dominion Energy Virginia Attn. Michael Winters
Address: 5000 Dominion Boulevard Glen Allen, VA 23060
Telephone: (Residential) _____ Mobile: (804) 347-9451 (Business) (804) 273-2376
Other means of communication: Michael.j.winters@dominionenergy.com
(Note: 24-hour telephone contact required)

3. Name of Impounding Structure Operator: Jason Williams
Address: Bremo Station 1038 Bremo Road, Bremo Bluff, VA 23123
Telephone: (Residential) _____ Mobile: (804) 441-3133 (Business) _____
Other means of communication: Jason.s.williams@dominionenergy.com
(Note: 24-hour telephone contact required)

Name of Alternate Operator: Will Ruch
Telephone: (Residential) _____ Mobile: (804) 845-2682 (Business) (434) 581-6201 (after hours)
Other means of communication: William.p.ruch@dominionenergy.com
(Note: 24-hour telephone contact required)

4. Name of Rainfall and Staff Gage Observer for Dam: Josh Horner
Address: Bremo Station, 1038 Bremo Rd., Bremo Bluff, VA 23022
Telephone: (Residential) _____ Mobile: (434) 808-4047 (Business) _____
Other means of communication: Josh.s.horner@dominionenergy.com
(Note: 24-hour telephone contact required)

Name of Alternate Rainfall and Staff Gage Observer: Will Ruch
Telephone: (Residential) _____ Mobile: (804) 845-2682 (Business) (434) 581-6201 (after hours)
Other means of communication: William.p.ruch@dominionenergy.com
(Note: 24-hour telephone contact required)

5. 24-Hour Dispatch Center Nearest Impounding Structure – Police/Fire/Sheriff's Department: _____
Local Emergency Operations / Fluvanna County Sheriff's Office
Address: 160 Commons Blvd, Palmyra, VA 22963
24-Hour Telephone: (434) 589-8211 or 911

6. Name of City/County Emergency Services Coordinator(s): Debbie Smith, Fluvanna County

Address: 132 Main Street, P.O. Box 540, Palmyra, VA 22963

Telephone: Business: (434) 591-1927 Mobile: (434) 270-6321

Other means of communication dsmith@fluvannacounty.org

(Note: 24-hour telephone contact required)

7. Describe the procedure and the responsible parties for notifying to the extent possible any known local occupants, owners, or lessees of downstream properties potentially impacted by the dam's failure.

There are no occupied structures within the inundation zone. Brema Road (State Route 656), located approximately 50-feet north of the West Pond is partially within the inundation zone. Impacts to the VDOT right-of-way will be communicated to the local VDOT representative by Dominion Energy. The CSX railway to the south of the embankment is partially within the inundation zone. CSX Transportation will be contacted by the local emergency management officials in the event of a possible or imminent failure.

CSX Contact Number: 800-232-0144

8. Discuss the procedures for timely and reliable detection, evaluation, and classification of emergency situations considered to be relevant to the project setting and impounding features. Each relevant emergency situation is to be documented to provide an appropriate course of action based on the urgency of the situation

The dam is unattended but monitored under normal operating conditions. Inspections are completed in quarterly and in accordance with the Operation and Maintenance certificate. An onsite staff gage is monitored remotely to track water levels within the impoundment. Defects, areas of distress, or other observations indicating abnormal conditions are communicated to Dominion personnel. An onsite weather station is monitored remotely to track rainfall. If observations indicate a Stage I, II, or III Conditions, additional action and communications will be made, as detailed in this plan.

9. Attach a simple dam break inundation map, demonstrating the general inundation that would result from an impounding structure failure.

10. If there are public roads downstream from the impounding structure, identify by highway number and distance below dam:

Route # 656 , 0.01 Miles

Route # _____ , _____ Miles

Route # _____ , _____ Miles

Route # _____ , _____ Miles

Provide name of resident engineer, VA Department of Transportation, (or City/County engineer):

Scott Thornton, Culpeper District

Address: Louisa Residency 3709 Davis Highway Louisa, VA 23093

Telephone: (Residential) _____ (Business) 540-967-3710, 24-hr.: 800-367-7632

Other means of communication: Scott.thornton@VDOT.virginia.gov

(Note: 24-hour telephone contact required)

Definitions:

Stage I Condition – A flood watch, or heavy continuous rain or excessive flow of water from ice or snow melt.

Stage II Condition – A flood watch, or emergency spillway activation or dam overtopping/breach may be possible.

Stage III Condition – Emergency spillway activation, dam overtopping or imminent failure is probable.

11. Amount of rainfall that will initiate a:

Stage II Condition	_____	Inches per 6 hrs.
	_____	Inches per 12 hrs.
	8	Inches per 24 hrs.
Stage III Condition	_____	Inches per 6 hrs.
	_____	Inches per 12 hrs.
	11	Inches per 24 hrs.

The amount of flow in the emergency spillway that will initiate a:

Stage II Condition	N/A	Feet (depth of flow)
Stage III Condition	N/A	Feet (depth of flow)

Total depth of emergency spillway available before crest of dam is overtopped: N/A Feet

12. Does a staff gage exist? ☒ Yes ☐ No

Staff Gage Location and Description: An electronic level transducer has been installed at the eastern end of the West Pond, adjacent to the outfall structure. The level transducer provides continuous monitoring and reporting through an online system. A digital display is located at the instrumentation location, for readings on site.

Frequency of observations by rainfall/staff gage observer during a:

Stage I Condition	Every 8 hours	
Stage II Condition	Every 2 hours	
Stage III Condition	Continuous	(recommend continuous)

Clearly identify access route and means of monitoring during flood conditions at the dam.

The pond staff gage may be monitored remotely during flood conditions. If the remote system is not functioning during flood conditions, on-site monitoring may be necessary.

The station is not staffed 24/7, however, there is one staff member dedicated to Brema Power Station Monday through Friday during normal business hours. After hours, the staff from Bear Garden Generating Station (located on the southern side of the James River) are on call to support emergencies.

An operator should be dispatched from the on-shift crew to observe the staff gauge during flood conditions. The staff gauge observer should never put themselves in harm's way. In the event a hurricane or tropical depression occurs with high winds, the staff gauge observer shall use extreme caution while monitoring conditions. If the observer is unable to access a safe monitoring location to observe conditions at the ponds. The Scottsville river gauge is used as a remote monitoring point to predict the river stage at the station.

Preplanned access routes should be utilized, given that small streams crossing under state and local roads may flood, preventing safe access. The gauge observers and Dam Safety Region staff should never attempt to cross a road that has flood water crossing it at a depth greater than one foot unless the vehicle is specially designed for that purpose.

Alternative routes should be chosen for access by foot in the event a car is unsafe for use. Other alternative means of transportation may be considered.

Note: It is recommended that the Observer remain on post until potentially serious or serious conditions subside.

13. Evacuation Procedures:

- a. The dam owner/operator should notify the local emergency services office (i.e., the city/county 24-hour dispatch center). Phone number should be listed in #5 above.
- b. Once the local emergency services office has been notified of any problem at a dam site, it should take appropriate protective measures in accordance with the local Emergency Operations Plan and this Emergency Preparedness Plan. Local emergency services actions will include:
 - (1) Notify the individuals who own downstream property
 - (2) Begin Alert, Notification, and Warning
 - (3) Immediately evacuating the inundation areas, when stage III conditions warrant.
 - (4) Begin Emergency Public Information procedures open emergency shelters.
 - (5) Provide Situation Reports to the State Emergency Operations Center (804) 674-2400 or (800) 468-8892.

- c. Once the local government has been notified of a condition requiring evacuation, the dam owner/operator and local government are mutually responsible for effecting evacuation.

- (1) The dam owner/operator will: There are no occupied structures within the inundation zone. The dam operator will continue to monitor the situation and communicate timely information about conditions to the Fluvanna County Emergency Management Coordinator.

- (2) Local emergency services will: Fluvanna County Emergency Services has the authority and responsibility for Mass Notification, Alert, and Warning, if necessary.

- d. Methods for notification and warning to evacuate include:
Check appropriate method(s)

- | | |
|-------|--|
| _____ | (1) Telephone |
| _____ | (2) Police/fire/sheriff radio dispatch vehicles with loudspeakers, bullhorns, etc. |
| _____ | (3) Personal runners for door-to-door alerting |
| _____ | (4) Radio/television broadcasts for areas involved |
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CERTIFICATION BY OWNER

I certify that a copy of this plan has been filed with Fluvanna County
(City/County) and Mrs. Debbie Smith (Name), the local Emergency Services Coordinator. Also,
that a copy of this form has been filed with the State Department of Emergency Management; that this plan shall be adhered to during
the life of the project; and that the information contained herein is current to the best of my knowledge.

Signed: Jason S Williams

Owner's Signature

Jason S Williams

Print Name

This 16 day of December, 20 24.

Please fill out and mail to:

Virginia Department of Emergency Management
Plans Division
10501 Trade Court
Richmond, Virginia 23236

**Mail the executed form to the appropriate
Department of Conservation and Recreation
Division of Dam Safety and Floodplain Management
Regional Engineer**

