

EMERGENCY ACTION PLAN (EAP)

McELROY'S RUN EMBANKMENT & IMPOUNDMENT AREA

Willow Island, WV

Allegheny Energy Supply Company
A FirstEnergy Company

2020

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INTRODUCTION

Pursuant to the Federal Coal Combustion Residuals (CCR) Rule at 40 CFR §257.73(a)(3)(i)(A)-(E) attached hereto is the Monitoring and Emergency Action Plan for the McElroy's Run Embankment and Impoundment Area as approved by the West Virginia Department of Environmental Protection (WVDEP). The WVDEP State Dam Identification Number is 07302.

CCR UNIT DESCRIPTION

The McElroy's Run Embankment and Impoundment Area is an engineered CCR wet-disposal impoundment located near the town of Willow Island, West Virginia, and is owned by FirstEnergy Corp. and operated by Allegheny Energy Supply Company (a wholly owned subsidiary of FirstEnergy Corp). It has been regulated by the West Virginia Department of Environmental Protection (WVDEP) since construction of the impoundment dam (circa 1976) and more recently since West Virginia enacted its solid waste management regulations in 1996. It receives wet-slucied flue gas desulfurization (FGD) material from the Pleasants Power Station. The water in the impoundment and all precipitation contacting the impoundment is discharged to the Ohio River via a permitted outfall under the WVDEP National Pollution Discharge Elimination System (NPDES) regulations.

EAP AMENDMENTS

The CCR rule allows for amendment of the plan at any time upon need, when changes in the condition of the embankment dictate an amendment, or if revisions are required after the mandatory review every five years. A log showing the reason for the amendment is provided in Appendix C.

ATTACHMENT A

McElroy's Run Embankment and Impoundment Area
Emergency Action Plan

STATE ID # 07302

As approved by WVDEP



west virginia department of environmental protection

Environmental Enforcement
1159 Nick Rahall Greenway
Fayetteville, West Virginia 25840
Phone: (304) 574-4471 Fax: (304) 574-4477

Austin Caperton, Cabinet Secretary
dep.wv.gov

February 27, 2020

Mr. Ralph Borsani
First Energy Corporation
Mail Drop A-301
800 Cabin Hill Drive
Greensburg, PA 15601-1689

**RE: McElroy's Run Dam, Willow Island, Pleasants County, ID# 07302
Monitoring and Emergency Action Plan Approval**

Dear Mr. Borsani:

The Monitoring and Emergency Action Plan (EAP) for the dam referenced above was received by WVDEP-Dam Safety on February 6, 2020. After review, the EAP is noted as **APPROVED**.

It should be noted that the item referenced above has been reviewed only to determine if it generally agrees in form and content with the Example EAP developed by WVDEP-Dam Safety. It is not the reviewer's responsibility to verify contact information for any individual or agency listed in the plan. **It is the owner's responsibility to ensure that all participants listed are aware of their inclusion and agree to perform their delegated tasks.** This review is not intended to be technical in nature. The reviewer may not have familiarity with any of the site-specific aspects of the dam or its appurtenances and may have never physically been to the site. It is the obligation of the owner to develop a plan that: (1) is site specific, (2) will aid to recognize potential deficiencies and outline responsive actions, (3) will identify all downstream hazards that may be affected should the dam experience an emergency or failure situation, and (4) will provide clear direction for notification and evacuation procedures.

The annual update for this EAP will be due **February 28, 2021**; before it is updated and submitted for approval, please review the current requirements for the latest version of the EAP (<http://www.dep.wv.gov/WWE/ee/ds>). If there are no changes to the approved EAP, Dam Safety will allow a statement of review (SOR) to be issued for two consecutive years with a review of the entire plan being required on the third year.

Please ensure that all individuals on the distribution list receive a hard copy of the approved plans in its entirety within fifteen (15) days after receipt of this approval letter.

If you have any questions or need additional information concerning this letter or the requirements of the Dam Control Act, please contact me at (304) 640-5405 or at david.w.dove@wv.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "David W. Dove".

David W. Dove, P.E.
WVDEP Dam Safety

cc: rborsa2@firstenergycorp.com, Delbert.G.Shriver@wv.gov, Anita.R.Chapman@wv.gov,
Aaron.P.Tonkery@wv.gov, Leonel.Medellin@wv.gov,

MONITORING AND EMERGENCY ACTION PLAN

for the

McElroy's Run Embankment and Impoundment Area

ID # 07302

Located at or near

Willow Island, Pleasants County, West Virginia

Owned by FirstEnergy Corp.

(Allegheny Energy Supply Company, LLC, Operator)

Revised 1/14/2019

INTRODUCTION

Purpose of Plan:

The purpose of this document is to provide for monitoring of the McElroy's Run Embankment and Impoundment Area under various conditions so that an emergency situation at the dam will be observed promptly and reported to agencies and persons who may be affected. This document also provides a plan for the orderly notification and evacuation of downstream residents to a place of safety in the event of a potential or actual dam failure.

Brief Overview of Dam and Observed Problems:

The McElroy's Run Embankment and Impoundment Area is constructed of fly ash, bottom ash, and earth materials to (which) impound desulfurization scrubber sludge. The completed structure is approximately 216 feet high with a crest elevation of 900 mean seal level (MSL). The normal maximum pool level is 888.45 MSL. For dam safety the maximum allowable operating pool level is elevation 893 MSL with a maximum storage volume of approximately 19,000 acre-feet.

A decant system is currently used as the principal spillway for the facility relative to dam safety issues. The decant system consists of a 107 foot high reinforced concrete tower with thirteen 24-inch-square sluice gates set at predetermined elevations, and a 36-inch concrete pipe that discharges downgradient of the dry compacted landfill area. All gates are closed, except the gate at el. 885' which is closed but operational and the gate at 890' has been removed and remains open. The 885' gate will be opened to drain off 90% of the runoff from an 80% PMP storm in 10 days.

During normal operating conditions, a siphon system conveys the supernatant from the impoundment to the Pleasants Power Station for re-use and/or discharge into the Ohio River.

The emergency spillway for the embankment was constructed in 1996 and directs water away from the embankment. It consists of reinforced concrete over structural clay.

For purposes of developing the inundation plats for the plan, it was assumed that the impoundment contains its maximum storage volume.

A plan view of the McElroy's Run facility is shown by Figure 1 and a general cross-section of the embankment at the streambed is shown by Figure 2.

List of all known problems concerning the dam:

There are no known major problems concerning the McElroy's Run Impoundment. Regular inspections and maintenance negate the opportunity of major problems developing. Inspection records are available at the FE McElroy's Impoundment Site Office, Pleasants Power Station.

Driving Directions to Dam:

From St. Mary's, WV (intersection of WV16 and WV2) – follow WV2 south for 5.7 miles and turn right at Gate 5 of the Pleasants Power Station. Provide purpose of visit to security guard and guard will direct visitor to FE McElroy's Impoundment Office via a private access road.

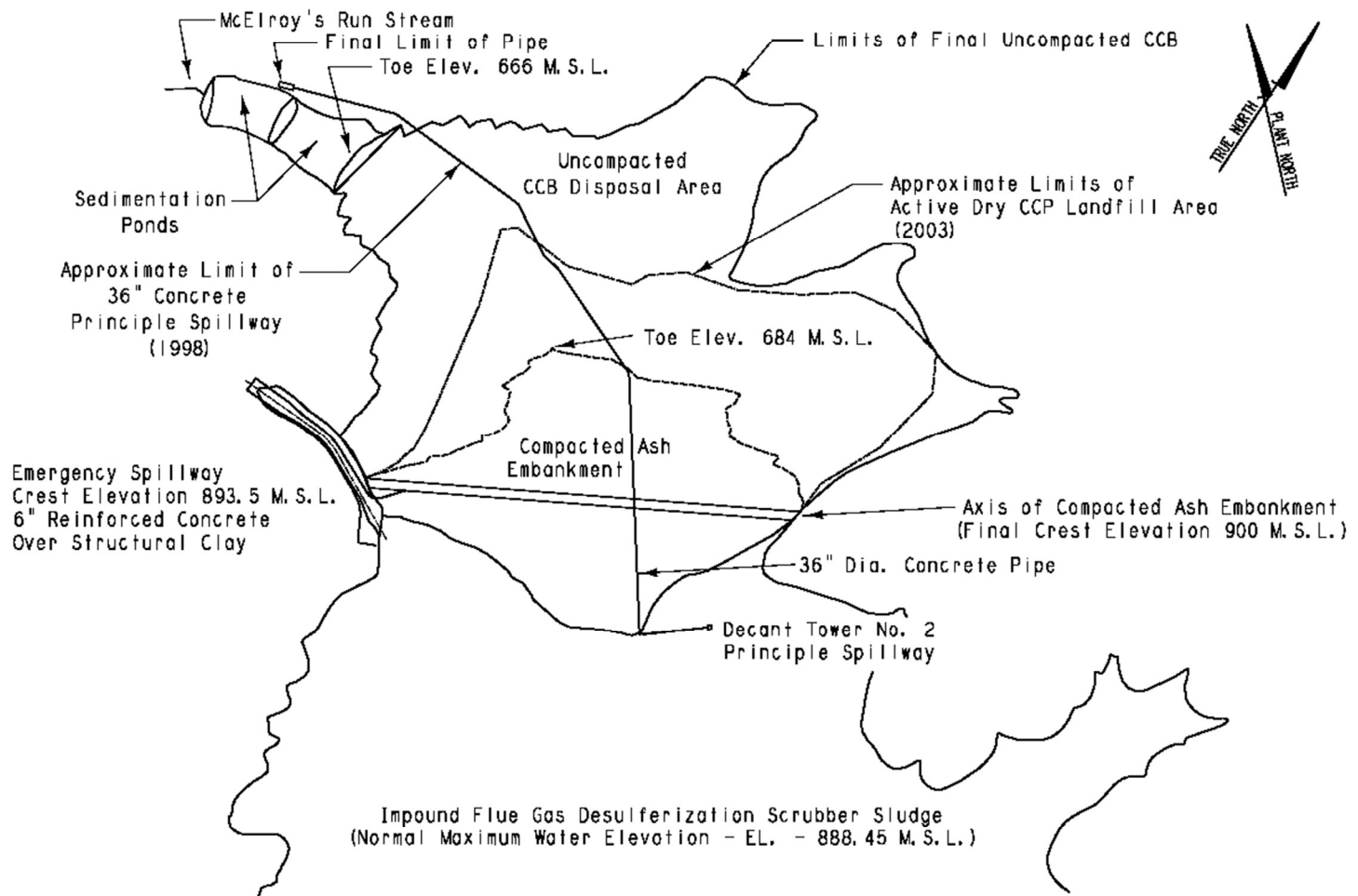
How To Use This Document:

Persons using this plan will find a sequence of actions to be taken depending on rainfall and site conditions. A summary of where to find specific monitoring, reporting and evacuation requirements can be found on the Summary and Index page 5.

MAP (PLAN VIEW) OF DAM

PLEASANTS POWER STATION
McELROY'S RUN EMBANKMENT
PLAN VIEW

FIGURE 1



-3-

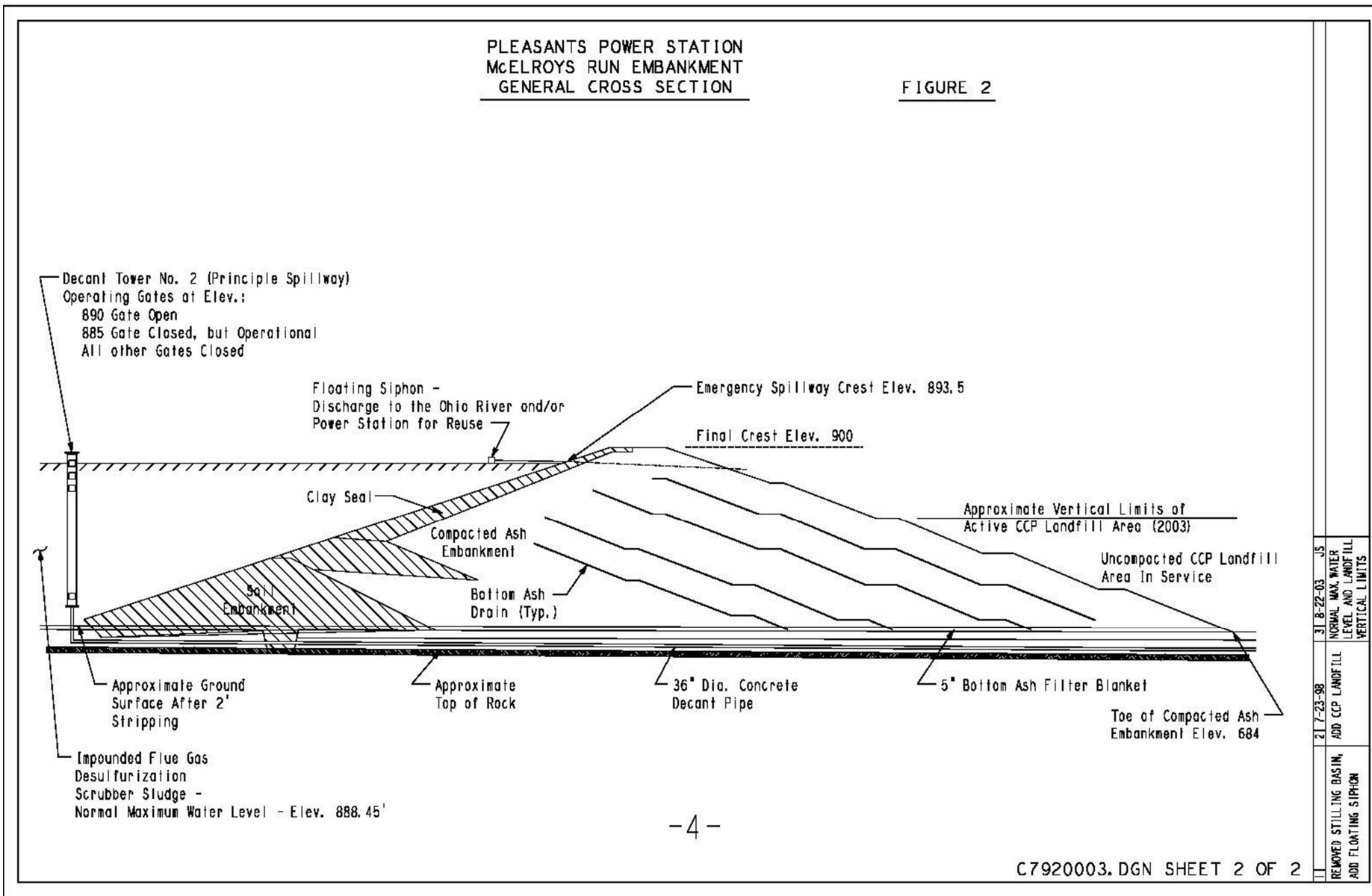
C7920003.DGN SHEET 1 OF 2

1	ADD EMERGENCY SPILLWAY	7-23-98	3-18-22-03 JS	REVISED LIMITS OF CCB LANDFILL
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MAP (CROSS SECTION) OF DAM

PLEASANTS POWER STATION
MCELROYS RUN EMBANKMENT
GENERAL CROSS SECTION

FIGURE 2



SUMMARY AND INDEX

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Part I - Monitoring Plan and Inspection Schedule

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

CONDITION STATUS DEFINITIONS

I-A NORMAL CONDITIONS

Applies during all hydrometeorological conditions having an intensity of less than 4 inches of rainfall in a 24-hour period and the integrity of the dam **is not suspect**.

I-B ADVERSE CONDITIONS

Applies during any period when the integrity of the dam **is suspect**. Also applies during hydrometeorological events having an intensity equal to or greater than 4 inches of rainfall in a 24-hour period **or** periods with extended rainfall that results in the impoundment experiencing a continuing increase in the water level exceeding the predetermined critical level of 888 M.S.L.

I-C STANDBY ALERT CONDITIONS

Applies when the water level is above 890 M.S.L. or integrity of the dam **is suspect**. A state of constant surveillance will be initiated.

I-D EVACUATION CONDITIONS

Applies when the integrity of the dam has deteriorated to the extent that **a failure is considered imminent or has already occurred** and the residents downstream must be evacuated.

Section I-A - Normal Conditions:

Dry weather or occasional light rainfall. Applies during all hydrometeorological conditions having an intensity of less than 4.13" inches of rainfall in a 24-hour period or 3.52" of rainfall in a 6-hour period and the integrity of the dam **is not suspect**.

<u>Action</u>	<u>Responsibility</u>												
<p>1. Inspect the facility weekly. Check the following items and complete a copy of the weekly inspection report for the Site Operator's files. The weekly report has more detail than the inspection report included in Appendix B, page 42:</p> <ul style="list-style-type: none"> a. Confirm that the pool level of the impoundment is below elevation 890 M.S.L. Record the pool elevation and note any fluctuation of the level since the previous reading. Contact Site Operations Management if level is greater than 888'. b. Confirm that the overflow outlet of the principal spillway (top 890' decant tower opening) is unobstructed or remove obstructions. c. Once a year verify operation of the 885' gate. d. Inspect all visible slopes of the dam for erosion, cracks, seepage, bulges, animal burrows, or other signs of instability. e. Measure the foundation drain flow rate and visually ascertain if sediment is entrained. (Note: visual confirmation of high levels of entrained sediment indicated internal erosion of the embankment is occurring.) f. Obtain bi-weekly (every other week) reading from all piezometers on the embankment. Notify FirstEnergy Corporate Environmental Department – , and Site Operations Supervisor soon as possible if (1)any of the readings show an increase of five feet or more since the previous inspection or (2) if the flow rate from the foundation drains have a noticeable increase since the previous inspection <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 35%;">OFFICE</th> <th style="width: 35%;">CELL</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">Carol L. Hoffman (Site Supervisor)</td> <td>(304) 480-1230</td> <td>(330) 814-1534</td> </tr> <tr> <td style="text-align: left;">Ralph E. Borsani, P.E. (PA) (Greensburg Environmental)</td> <td>(724) 830-5909</td> <td>(724) 433-3344</td> </tr> <tr> <td style="text-align: left;">Dave L. Hoone (Greensburg Environmental)</td> <td>(724) 626-5109</td> <td>(724) 454-9280</td> </tr> </tbody> </table>		OFFICE	CELL	Carol L. Hoffman (Site Supervisor)	(304) 480-1230	(330) 814-1534	Ralph E. Borsani, P.E. (PA) (Greensburg Environmental)	(724) 830-5909	(724) 433-3344	Dave L. Hoone (Greensburg Environmental)	(724) 626-5109	(724) 454-9280	<p>FirstEnergy Corporate Environmental</p> <p>Carol L. Hoffman, Site Operations Supervisor</p> <p>(330) 814-1534</p> <p>OR</p> <p>Site Field Technician</p>
	OFFICE	CELL											
Carol L. Hoffman (Site Supervisor)	(304) 480-1230	(330) 814-1534											
Ralph E. Borsani, P.E. (PA) (Greensburg Environmental)	(724) 830-5909	(724) 433-3344											
Dave L. Hoone (Greensburg Environmental)	(724) 626-5109	(724) 454-9280											
<p>2. If conditions indicate the integrity of the dam is suspect, contact Greensburg Environmental personnel and proceed directly to Section I-B or C (page 8 or 10).</p>													

Section I-B - Adverse Conditions:

Applies during any period when the integrity of the embankment **is suspect**. Also applies during hydrometeorological events having an intensity equal to or greater than 4.13” inches of rainfall in a 24-hour period or 3.52”of rainfall in a 6 hour period **or** periods of extended rainfall that result in the impoundment experiencing a continuing increase in the water level above 888 and approaching 890 M.S.L. Adverse conditions may be appropriate during heavy or extended rainfall, flash flood warnings, snow-melt or serious new problems found under normal conditions such as slips, sinkholes or piping. Typical problems include but are not limited to, instrumentation reading, trash racks obstructions, spillways, spillway discharge levels, reservoir elevation and freeboard, seepages, embankment cracking or piping, slumps, sinkholes, bulges, gate or equipment failure, and concrete alignment.

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

<u>Action</u>	<u>Responsibility</u>
<p>1. Inspect the facility a minimum of once daily (actual frequency shall be determined by the severity of the conditions encountered). Check the following items and complete a copy of the inspection report Appendix B, and the Unusual or Emergency Event log Appendix C for the Site Supervisor Files.:</p> <ul style="list-style-type: none"> a. Confirm that the pool level of the impoundment is below elevation 890 M.S.L. Record the pool elevation and note any fluctuation of the level since the previous reading. b. Confirm that the overflow outlet at the principal spillway is unobstructed. Remove any obstructions that are present. c. Confirm that the top 890’ decant tower opening is unobstructed, Contact FE Environmental Department if the 885’ gate should be opened to allow the maximum capacity of approximately 90 cfs to be discharged through the principal spillway. d. Inspect all visible slopes of the dam for erosion, cracks, seepage, bulges, animal burrows, or other signs of instability. e. Inspect the Emergency Spillway to insure it is unobstructed, f. Measure the foundation drain flow rate and visually ascertain if sediment is entrained. (Note: visual confirmation of high levels of entrained sediment indicated internal erosion of the embankment is occurring.) <p>CONTINUED ON NEXT PAGE . . .</p>	<p style="text-align: center;">FirstEnergy Corporate Environmental</p> <p style="text-align: center;">Carol L. Hoffman, Site Supervisor (330) 814-1534 OR Site Field Technician</p>

- g. Obtain readings from all piezometers on the embankment. **Notify Environmental Department – Greensburg, as soon as possible if any of the readings show an increase of five feet or more since the previous inspection. Also, implement constant surveillance of the embankment as soon as possible if the flow rate from the foundation drain has also increased.**

	OFFICE	CELL
Name		
Carol Hoffman Site Supervisor	(304) 480-1230	(330) 814 1534
Ralph Borsani, P.E. (PA) (Greensburg Environmental)	(724) 830-5909	(724) 433-3344
David Hoone (Greensburg Environmental)	(724) 626-5109	(724) 454-9280

**FirstEnergy
Corporate
Environmental**
Carol L. Hoffman, Site
Supervisor
(330) 814-1534
OR
Site Field Technician

2. Decrease reservoir level, if possible and as directed by the Site Supervisor or FirstEnergy Corporate Environmental, by opening the 885' gate to allow up to the maximum capacity of approximately 90 cfs to be discharged through the principal spillway.
3. If conditions confirm the integrity of the dam is suspect, proceed directly to **Section I-C (page 10)**.

Section I-C - Standby Alert:

Applies when the condition exist that may affect the integrity of the embankment or the hydrometeorological events in Section I – B are in effect. This includes, but it not limited to, any of the following: major sliding of the embankment slopes, continuing rise in the pool level of the impoundment above elevation 890.5 M.S.L., continuing rise in the readings obtained from the piezometers, and/or visual confirmation of high levels of entrained sediment in the effluent from the foundation drain.

<u>Action</u>	<u>Responsibility</u>
<p>1. Implement constant surveillance of the dam following the inspection procedures prescribed in Section I-B (page 8). Establish a two-way communication system between the Site Field Technician assigned to monitor the conditions at the embankment and the Site Supervisor.</p> <p style="padding-left: 20px;">a. If the water level has reached elevation 892 (top of the 890 opening) notify FE Environmental of the situation and request additional guidance and proceed to item 2.</p>	
<p>2. Notify the agencies listed below in sequence and issue the Standby Alert statement to the responding party.</p> <p>"This is (name of caller) of the FirstEnergy Environmental Department advising you that a standby alert constant surveillance has been initiated for the McElroy's Run Embankment and Impoundment Area in accordance with Section I-C (page 9) of the Monitoring and Emergency Warning and Evacuation Procedures Plan filed with your office. We are notifying the Pleasants Power Station, the Sheriff's Department of Pleasants County, WV; the Sheriff's department of Washington County, OH; the Sheriff's Department of Wood County, WV; the U.S. Army Corp of Engineers at the Willow Island Lock and Dam; and the West Virginia DEP - Dam Safety Section of this condition. You will receive subsequent notification when the status of the embankment is changed, and the decision is made to either evacuate the downstream residents or cancel the surveillance."</p> <p>Answer any questions that the respondent may have. Record initial and all subsequent communications on the "Notification Log Sheet" (Appendix D).</p> <p><u>Check when notified:</u></p> <p>____ Pleasants Power Station (Control Room). 304-665-3220</p> <p>____ DWWM Sam Safety Section 800-642-3074</p> <p>____ Sheriff's Department of Pleasants County, WV (304) 684-2285</p> <p style="padding-left: 40px;">If Sheriff's office cannot be contacted, use: 9-1-1 (304) 684-0911</p> <p>____ Sheriff's Department of Washington County, OH (740) 376-7070</p> <p style="padding-left: 40px;">If Sheriff's office cannot be contacted, use: (740) 373-2833</p> <p>____ Sheriff's Department of Wood County, WV. (304) 424-1835</p> <p>____ U.S. Army Corp of Engineers, Willow Island (304) 665-2520</p>	<p>FirstEnergy Corporate Environmental</p> <p>Carol L. Hoffman, Site Supervisor</p> <p>(330) 814-1534</p> <p>OR</p> <p>Designated Representative</p>

<p>3. Respond to notification of Standby Alert.</p>	<p>-DWWM Dam Safety Section -Pleasant County, WV -Washington County, OH -Wood County, WV -U.S. Army Corp of Engineers</p>
<p>4. Start emergency communications network, if necessary, based upon the continuing deterioration of the site conditions. Request additional assistance if necessary.</p>	<p>FirstEnergy Corporate Environmental Carol L. Hoffman, Site Supervisor (330) 814-1534 OR Designated Representative</p>
<p>5. If a problem is observed that could lead to failure, proceed directly to Section I-D (page 12).</p>	
<p>6. Perform the emergency tasks prescribed for the conditions outlined below:</p> <ul style="list-style-type: none"> a. The integrity of the dam is satisfactory, but the water level of the impoundment continues to rise with the emergency spillway in imminent use. <ul style="list-style-type: none"> i. Check the riser for any flow constraints to ensure maximum discharge capability and, if possible, clear any obstructing debris. ii. Ensure the emergency spillway and downstream of the spillway is clear of obstructions. . iii. If possible, operate the 885 gate sufficiently to stop the rise in water level. b. The integrity of the dam is suspect, there are indications of possible slope failure, and/or seepage is occurring through the embankment. <ul style="list-style-type: none"> i. Open fully the 885 gate of the principal spillway riser to the drain pool as much as possible. ii. If seepage is occurring and conditions are safe / feasible, install a rock berm to restrict/stop any seepage 	

Section I-D - Evacuation Conditions:

Applies to any condition wherein the integrity of the dam has deteriorated to the extent that a failure is considered imminent or has already occurred and the downstream residents must be evacuated. Possible conditions include, but are not necessarily limited to, the following: major sliding of the embankment, seepage occurring through the embankment, continuing rise of the pool elevation above 893 M.S.L, (Emergency Spillway crest is at 893.5) and/or active-ongoing erosion occurring to the emergency spillway or internal to the dam.

<u>Action</u>	<u>Responsibility</u>
1. Monitor dam condition.	<p>FirstEnergy Corporate Environmental</p> <p>Carol L. Hoffman, Site Supervisor</p> <p>(330) 814-1534</p>
2. Proceed immediately to Section II to determine appropriate evacuation scenario and follow notification instructions in Section II-A.	<p>OR</p> <p>Designated Representative</p>

Part II - Emergency Action and Evacuation Plan

Part II contains the Emergency Warning and Evacuation Procedures that are to be implemented in the event that the stability of the dam has deteriorated to the extent that a failure is considered imminent or has already occurred and the residents downstream must be evacuated.

EVACUATION PLANS

EVACUATION PLAN "A" (Sunny Day Scenario, maximum wave height 2 feet)

Applies to situations requiring the evacuation of residents downstream during hydrometeorological conditions having an intensity of less than 4" of rainfall in a 24 hour period (**Sunny Day Scenario**). Inundation plats for **Evacuation Plan "A"** are designated as Figures A-1 through A-3 on **pages 18-20**. Stage data for incremental pool level increases in the Ohio River are included on **page 17**.

EVACUATION PLAN "B" (Design Storm Scenario, wave height greater than 2 feet)

Applies to situations requiring the evacuation of residents downstream during hydrometeorological conditions having an intensity of greater than 4" of rainfall in a 24 hour period **or** periods of extended rainfall that has resulted in the impoundment experiencing an increase in the water level approaching the maximum allowable surface elevation of 893 M.S.L. (**Design Storm Scenario**). Inundation plats for Evacuation Plan "B" are designated as Figures B-1 through B-11 on **pages 23-33**. Stage data for incremental pool level increases in the Ohio Ricer are included on **page 22**.

Section II-A - Notification of Agencies:

<u>Action</u>	<u>Responsibility</u>
<p>1. Notify the agencies listed below in sequence and issue the Emergency Warning statement to the responding party.</p> <p>NOTE: In the event that any of the agencies listed below cannot be notified of the emergency situation, refer to page 15, Alternate Action 1.</p> <p>"This is (name of caller) of FirstEnergy Environmental Department notifying you that an order to implement the Evacuation Plan (A or B) for the McElroy's Run Embankment and Impoundment Area is being issued at <u>(time)</u> on <u>(date)</u>. Please initiate emergency notification and action procedures in accordance with Section II-B (page 14) of the Monitoring and Emergency Warning and Evacuation Procedures Plan filed with your office. We are notifying the Pleasants Power Station, the Sheriff's Department of Pleasants County, WV; the Sheriff's department of Washington County, OH; the Sheriff's Department of Wood County, WV; the U.S. Army Corp of Engineers at the Willow Island Lock and Dam; and the West Virginia DEP - Dam Safety Section of this condition."</p> <p>Answer any questions that the respondent may have. Record initial and all subsequent communications on the "Notification Log Sheet" (Appendix D).</p> <p><u>Check when notified:</u></p> <p>____ Pleasants Power Station (Control Room) 304-665-3220</p> <p>____ DWWM Sam Safety Section 800-642-3074</p> <p>____ Sheriff's Department of Pleasants County, WV (304) 684-2285 If Sheriff's office cannot be contacted, use: 9-1-1 (304) 684-0911</p> <p>____ Sheriff's Department of Washington County, OH (740) 376-7070 If Sheriff's office cannot be contacted, use: (740) 373-2833</p> <p>____ Sheriff's Department of Wood County, WV (304) 424-1835</p> <p>____ U.S. Army Corp of Engineers, Willow Island (304) 665-2520</p>	<p>FirstEnergy Corporate Environmental</p> <p>Carol L. Hoffman, Site Supervisor</p> <p>(330) 814-1534</p> <p>OR</p> <p>Designated Representative</p>

Section II-B – Alternate Action: Evacuation Notification of Downstream Persons:

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

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

ACTION: If a Sheriff's Department was not contacted:

1. Call Pleasants Power Station (Control Room-304-665-3220) Notify operator to sound the station's Emergency Siren to alert the residents in the immediate vicinity that evacuation procedures are being implemented for the area downstream of McElroy's Dam. **NOTE:** This action fulfills the owner's downstream notification provisions of Chapter 20-5D-10, regardless of the owner's ability to contact the county emergency response agencies.
2. For Pleasant County, WV call Pleasants County Emergency Services (304) 684-3810
3. For Washington County, OH call Washington County Emergency Services (740) 373-5613

ACTION:

- A: **Sheriff's Department of Pleasants County, WV** - Upon receiving notification that the Evacuation Plan (A or B) is to be implemented, the Sheriff's Department of Pleasants County shall have the responsibility for the following:
- a. Provide notification to the Pleasants County Office of Emergency Services. This notification is in addition to the notifications prescribed on page 14.
 - b. Provide notification and coordinate subsequent action of local emergency action departments and/or personnel.

Note: Actual warning and evacuation measures within Pleasants County, WV, shall be carried out in accordance with the procedures specified in the Pleasants County Emergency Response Plan. The McElroy's Run Monitoring and Emergency Action Plan shall be annexed to the county plan.

- B: **Sheriff's Department of Washington County, OH** - Upon receiving notification that the Evacuation Plan (A or B) is to be implemented, the Sheriff's Department of Washington County shall have the responsibility for the following:
- a. Provide notification to the Washington County Office of Emergency Management.
 - b. Provide notification and coordinate subsequent action of local emergency action departments and/or personnel.

Note: Actual warning and evacuation measures within Washington County, OH, shall be carried out in accordance with the procedures specified in the Washington County Emergency Operations Plan. The McElroy's Run Monitoring and Emergency Action Plan shall be annexed to the county plan.

Section II-C – Evacuation Maps:

FIRSTENERGY McELROY'S RUN EMBANKEMENT

EVACUATION PLAN "A" INUNDATION PLATS

SPEICAL NOTATION

The intent of this plan, including the use of the inundation plats, is to provide flood warnings to downstream residents for only those situations that relate to the (possible) breaching of the McElroy's Run Embankment and the incremental increase in water surface elevation that would result.

INUNDATION PLATS

Figures A-1 through A-3 cover Evacuation Plan "A" – Sunny Day Scenario failure. These figures have been marked to show both the normal pool elevation and the corresponding flood elevation if an embankment failure occurs. The maximum incremental increase (wave height) under the Sunny Day Scenario failure is two feet.

The areas covered by the plats extend only as far upstream and downstream as the incremental increase (wave height) is greater than one foot. As noted on Figure A-1:

1. All elevations are approximate and rounded to the nearest whole foot.
2. Due to limitations of the map scale, only the results of the failure analysis are shown. Local flooding may occur in areas outside the limits indicated on the inundation plats.
3. The limits of inundation are shown to the points at which the flood wave is contained within the riverbanks or is less than a one foot incremental increase.
4. Because of the method, procedures and assumptions used to develop the flooded areas, the limits of flooding shown are approximate and should be used only as a guideline for establishing evacuation zones. Specific limits of flooding will depend on actual failure conditions and may differ from areas shown on the maps.

FIRSTENERGY
 McELROY'S RUN EMBANKEMENT

EVACUATION PLAN "A"
SUNNY DAY SCENARIO FAILURE
OHIO RIVER POOL LEVEL INCREASES

<u>NORMAL POOL CONDITION</u>			<u>SUNNY DAY SCENARIO FAILURE</u>		
RIVER MILE	STAGE READING (FEET)	POOL LEVEL (MSL)	STAGE READING (FEET)	POOL LEVEL (MSL)	INCREMENTAL INCREASE (FEET)
161.75 (1)	16.3 (3)	586.3	18.5 (3)	588.5	2.2
164		586.0		587.8	1.8
166		585.6		587.0	1.4
168		585.3		586.0	0.7
170		585.0		585.5	0.5
172		584.8		584.9	0.1
174		584.6		584.8	0.2
174.3 (2)	17.5 (4)	584.5	17.7 (4)	584.7	0.2
176		584.2		584.7	0.5
178		584.0		584.3	0.3

- Notes:
- (1) WILLOW ISLAND LOCK & DAM - LOWER (BELLEVILLE) POOL
 - (2) U.S.G.S. GAGE STATION AT MARIETTA, OH
 - (3) PROPERTY DAMAGE DUE TO FLOODING DOES NOT OCCUR UNTIL RIVER RISES ABOVE A STAGE READING OF 37' (5)
 - (4) PROPERTY DAMAGE DUE TO FLOODING DOES NOT OCCUR UNTIL RIVER RISES ABOVE A STAGE READING OF 35' (5)
 - (5) INFORMATION PROVIDED BY FEDERAL AGENCY

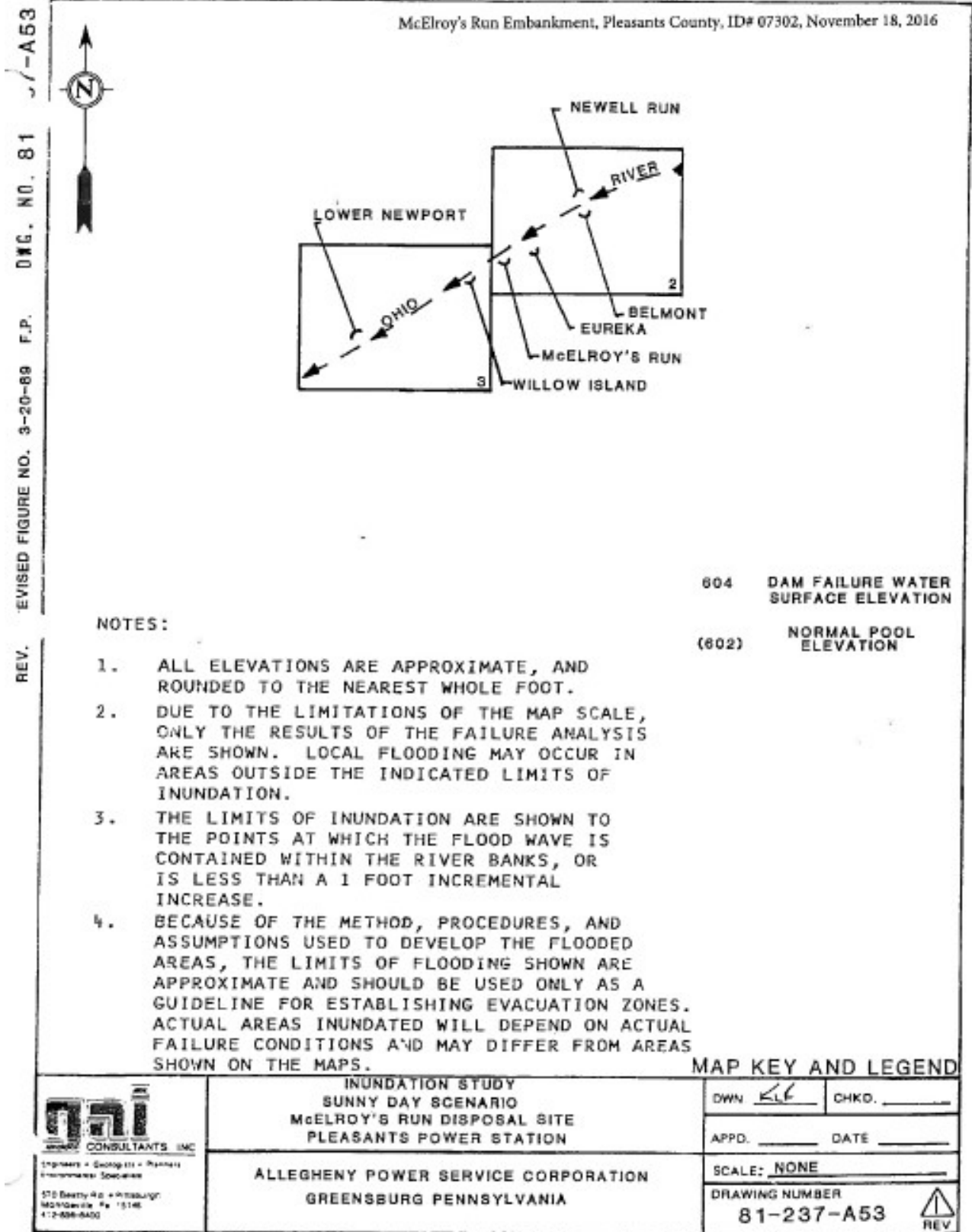


FIGURE A1

McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016

REV. 1 REVIS FIGURE NO. 9-20-89 F.P. DWG. NO. 81- 7-A54

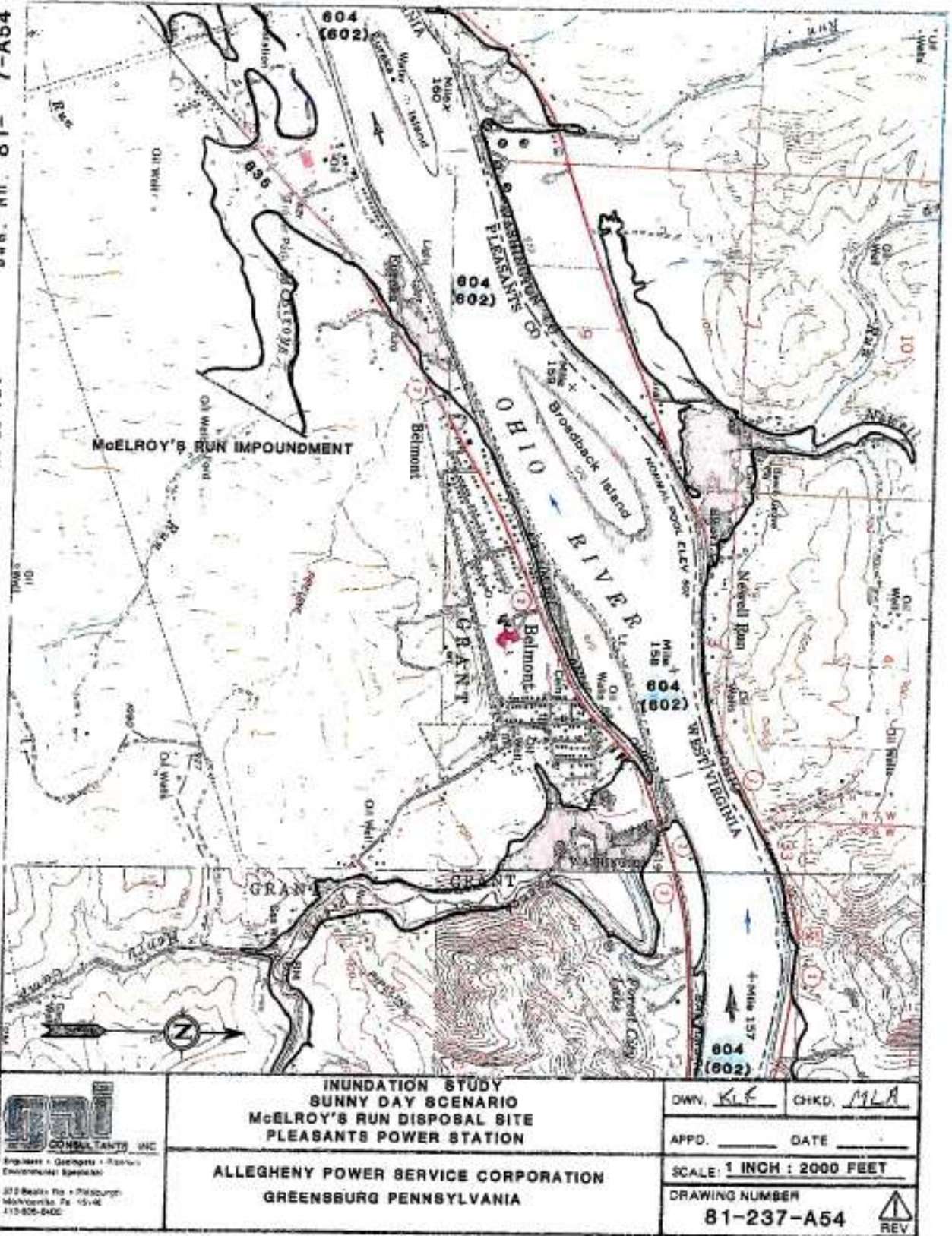
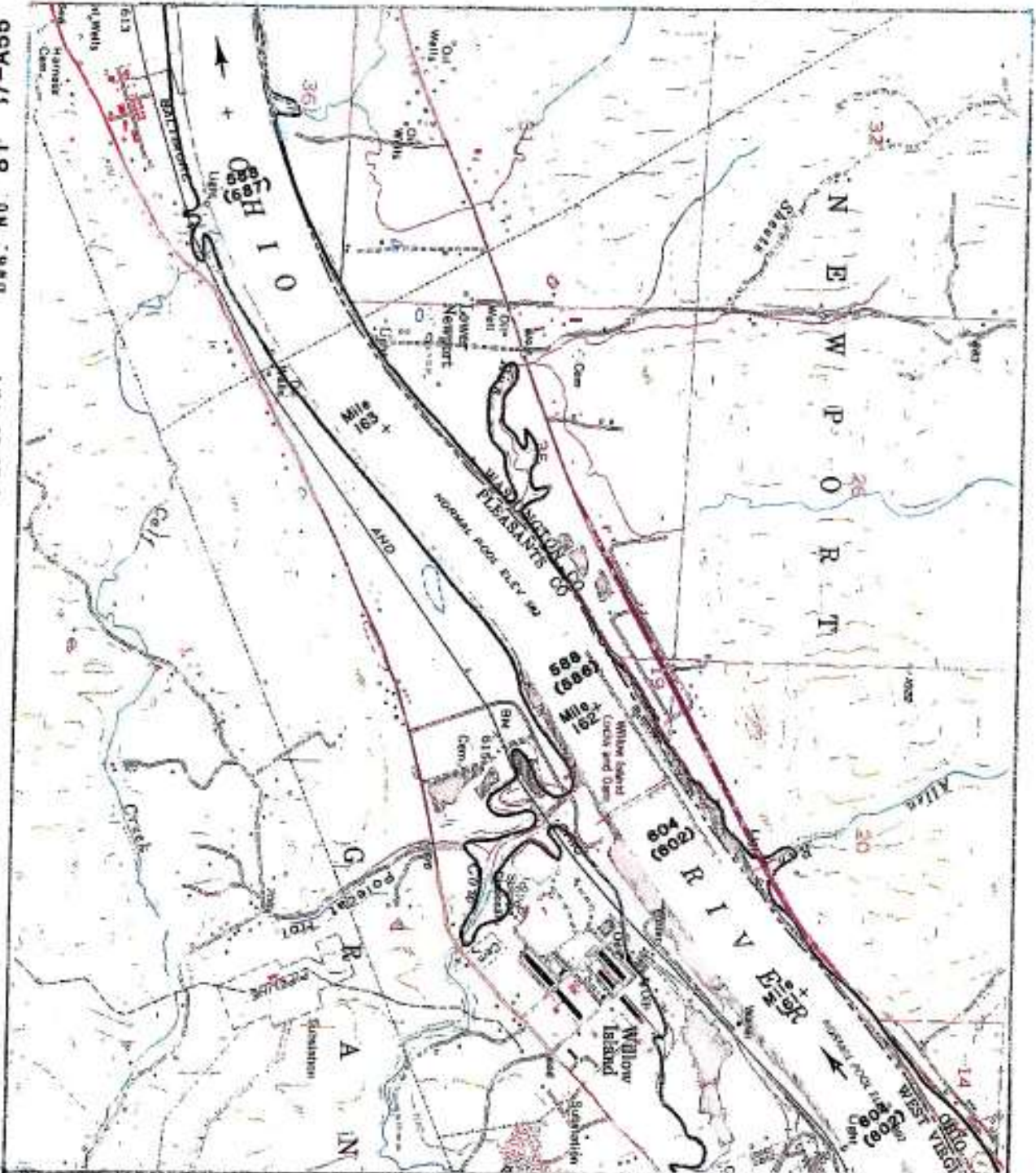


FIGURE A2

McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016

REV.1 E IED FIGURE NO. 3-20-89 F.P. DWG. NO. 81-17-A55




 <p>GAI CONSULTANTS, INC. Engineers • Geologists • Planners Environmental Scientists 278 Dixie Rd • Pittsburgh Marysville Pa 15141 412-834-6400</p>	INUNDATION STUDY SUNNY DAY FAILURE SCENARIO MCELROY'S RUN DISPOSAL SITE PLEASANTS POWER STATION		DWN. <u>KLC</u>	CHKD. <u>MLA</u>
	ALLEGHENY POWER SERVICE CORPORATION GREENSBURG PENNSYLVANIA		APPD. _____	DATE _____
	SCALE: 1 INCH : 2000 FEET			
	DRAWING NUMBER 81-237-A55			

FIGURE A3

FIRSTENERGY
McELROY'S RUN EMBANKMENT

EVACUATION PLAN "B"
INUNDATION PLATS

SPEICAL NOTATION

The intent of this plan, including the use of the inundation plats, is to provide flood warnings to downstream residents for only those situations that relate to the (possible) breaching of the McElroy's Run Embankment and the incremental increase in water surface elevation that would result.

INUNDATION PLATS

Figures B-1 through B-11 cover Evacuation Plan "B" – Design Storm Scenario failure. These figures have been marked to show both the normal pool elevation and the corresponding flood elevation if an embankment failure occurs. The maximum incremental increase (wave height) under the Design Storm Scenario failure is three feet.

The areas covered by the plats extend only as far upstream and downstream as the incremental increase (wave height) is greater than one foot. As noted on Figure B-1:

1. All elevations are approximate and rounded to the nearest whole foot.
2. Due to limitations of the map scale, only the results of the failure analysis are shown. Local flooding may occur in areas outside the limits indicated on the inundation plats.
3. The limits of inundation are shown to the points at which the flood wave is contained within the riverbanks or is less than a one foot incremental increase.
4. Because of the method, procedures and assumptions used to develop the flooded areas, the limits of flooding shown are approximate and should be used only as a guideline for establishing evacuation zones. Specific limits of flooding will depend on actual failure conditions and may differ from areas shown on the maps.

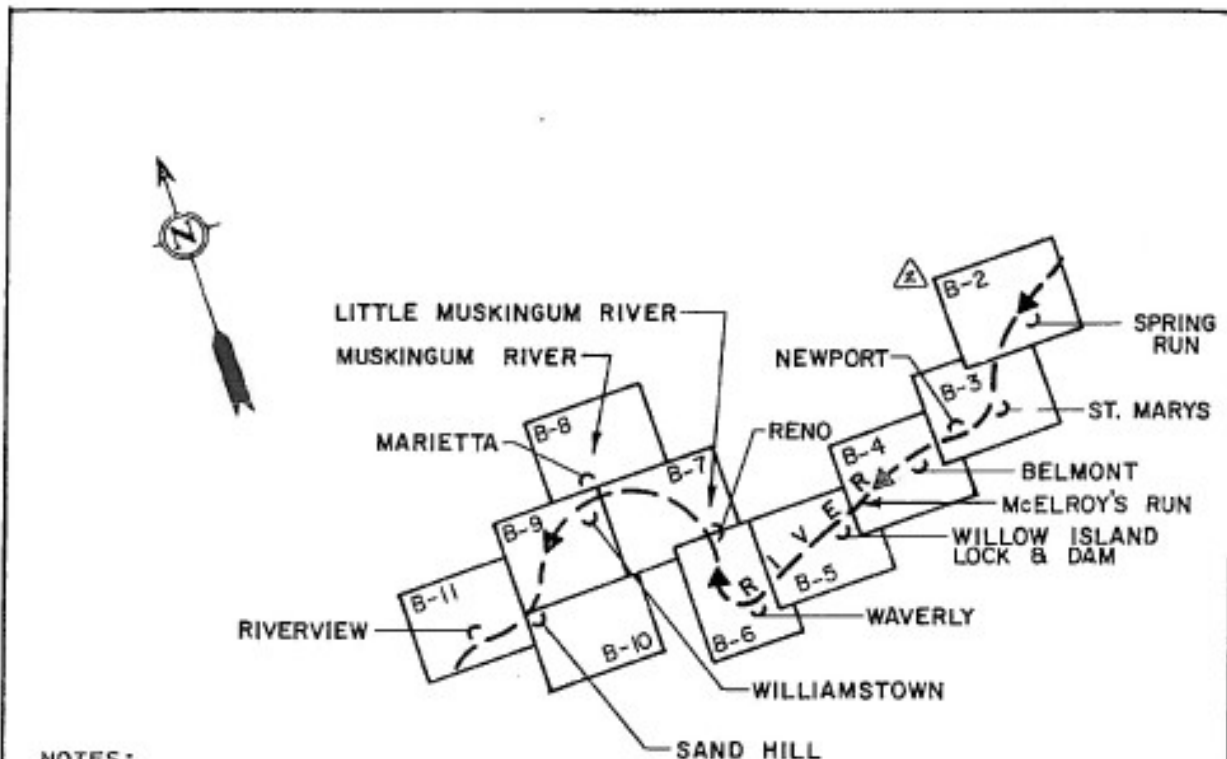
FIRSTENERGY
 McELROY'S RUN EMBANKEMENT

EVACUATION PLAN "B"
DESIGN STORM SCENARIO FAILURE
OHIO RIVER POOL LEVEL INCREASES

<u>10 YEAR FLOOD EVENT (COE)</u>			<u>DESIGN STORM SCENARIO FAILURE</u>		
RIVER MILE	STAGE READING (FEET)	POOL LEVEL (MSL)	STAGE READING (FEET)	POOL LEVEL (MSL)	INCREMENTAL INCREASE (FEET)
161.75 (1)	43 (3)	612.8	45.4 (3)	615.4	2.6
164		611.6		614.3	2.7
166		610.0		612.6	2.6
168		609.7		611.4	1.7
170		608.4		610.8	2.4
172		607.1		609.0	1.9
174		606.4		607.9	1.5
174.3 (2)	39 (4)	606.1	40.7 (4)	607.7	1.6
176		605.5		606.7	1.2
178		604.8		605.6	0.8

- Notes:
- (1) WILLOW ISLAND LOCK & DAM - LOWER (BELLEVILLE) POOL
 - (2) U.S.G.S. GAGE STATION AT MARIETTA, OHIO
 - (3) PROPERTY DAMAGE DUE TO FLOODING DOES NOT OCCUR UNTIL RIVER RISES ABOVE A STAGE READING OF 37' (5)
 - (4) PROPERTY DAMAGE DUE TO FLOODING DOES NOT OCCUR UNTIL RIVER RISES ABOVE A STAGE READING OF 35' (5)
 - (5) INFORMATION PROVIDED BY FEDERAL AGENCY

REV. 2 ADDED NEW FIGURE NOS. 10-16-90
 REV. 1 REVISED FIGURE NO. 3-20-88 F.P.
 DWG. NO. 81-7-A57



NOTES:

1. ALL ELEVATIONS ARE APPROXIMATE, AND ROUNDED TO THE NEAREST WHOLE FOOT.
2. DUE TO THE LIMITATIONS OF THE MAP SCALE, ONLY THE RESULTS OF THE FAILURE ANALYSIS ARE SHOWN. LOCAL FLOODING MAY OCCUR IN AREAS OUTSIDE THE INDICATED LIMITS OF INUNDATION.
3. THE LIMITS OF INUNDATION ARE SHOWN TO THE POINTS AT WHICH THE FLOOD WAVE IS CONTAINED WITHIN THE RIVER BANKS, OR IS LESS THAN A 1 FOOT INCREMENTAL INCREASE.
4. BECAUSE OF THE METHOD, PROCEDURES, AND ASSUMPTIONS USED TO DEVELOP THE FLOODED AREAS, THE LIMITS OF FLOODING SHOWN ARE APPROXIMATE AND SHOULD BE USED ONLY AS A GUIDELINE FOR ESTABLISHING EVACUATION ZONES. ACTUAL AREAS INUNDATED WILL DEPEND ON ACTUAL FAILURE CONDITIONS AND MAY DIFFER FROM AREAS SHOWN ON THE MAPS.

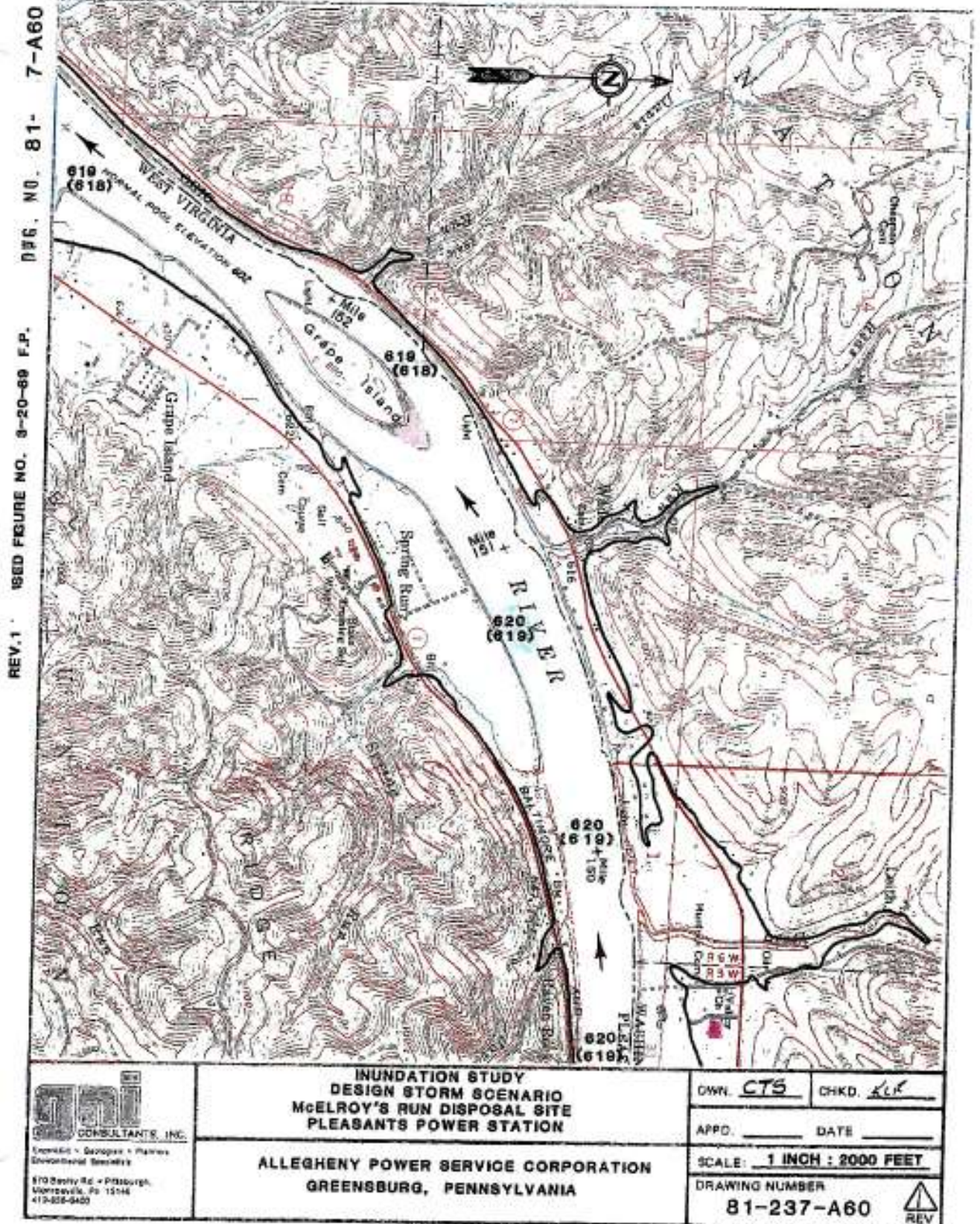
617 DAM FAILURE WATER SURFACE ELEVATION
 (615) 10-YEAR BASE FLOOD ELEVATION

MAP KEY AND LEGEND

 Engineers • Geologists • Planners Environmental Scientists 512 Beech Rd • Pittsburgh Monacaque, Pa. 15148 412-655-5400	INUNDATION STUDY DESIGN STORM SCENARIO McELROY'S RUN DISPOSAL SITE PLEASANTS POWER STATION		DWN. <u>CTB</u> CHKD. <u>KLE</u>
			APPD. _____ DATE _____
	ALLEGHENY POWER SERVICE CORPORATION GREENSBURG, PENNSYLVANIA		SCALE: <u>NONE</u>
			DRAWING NUMBER 81-237-A57

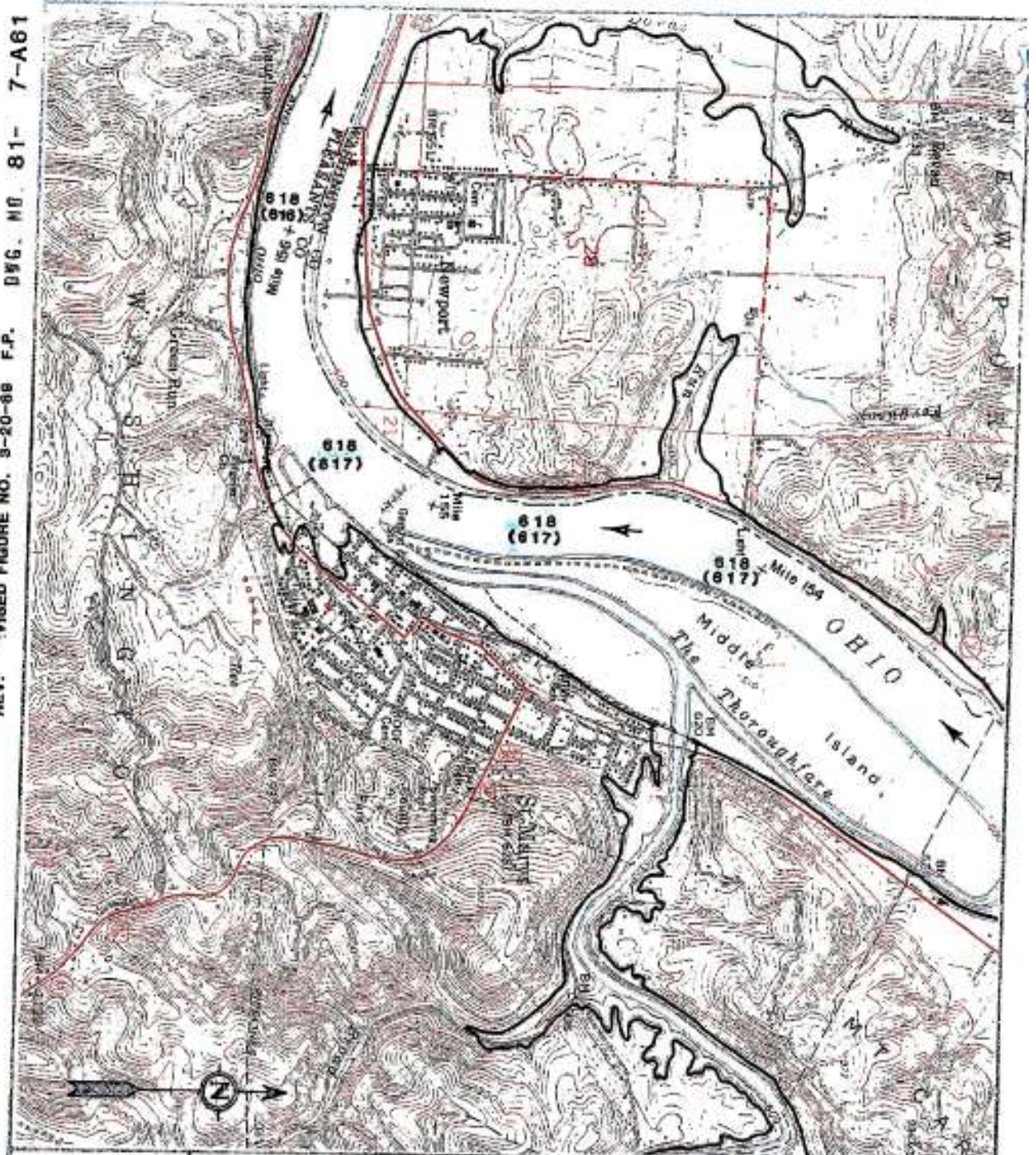
FIGURE B1

McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016



McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016

REV. TWISED FIGURE NO. 3-20-88 F.P. DYG. NO. 81- 7-A61




 <p>Engineers • Geologists • Planners Environmental Specialists</p> <p>170 South Hill • Pittsburgh McKeesport, Pa 15146 412-658-8100</p>	<p>INUNDATION STUDY DESIGN STORM SCENARIO McELROY'S RUN DISPOSAL SITE PLEASANTS POWER STATION</p>		OWN. <u>CTS</u> CHKD. <u>KLC</u>
	ALLEGHENY POWER SERVICE CORPORATION GREENSBURG, PENNSYLVANIA		APPD. _____ DATE _____
	SCALE: 1 INCH : 2000 FEET		DRAWING NUMBER 81-237-A61

FIGURE B3

McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016

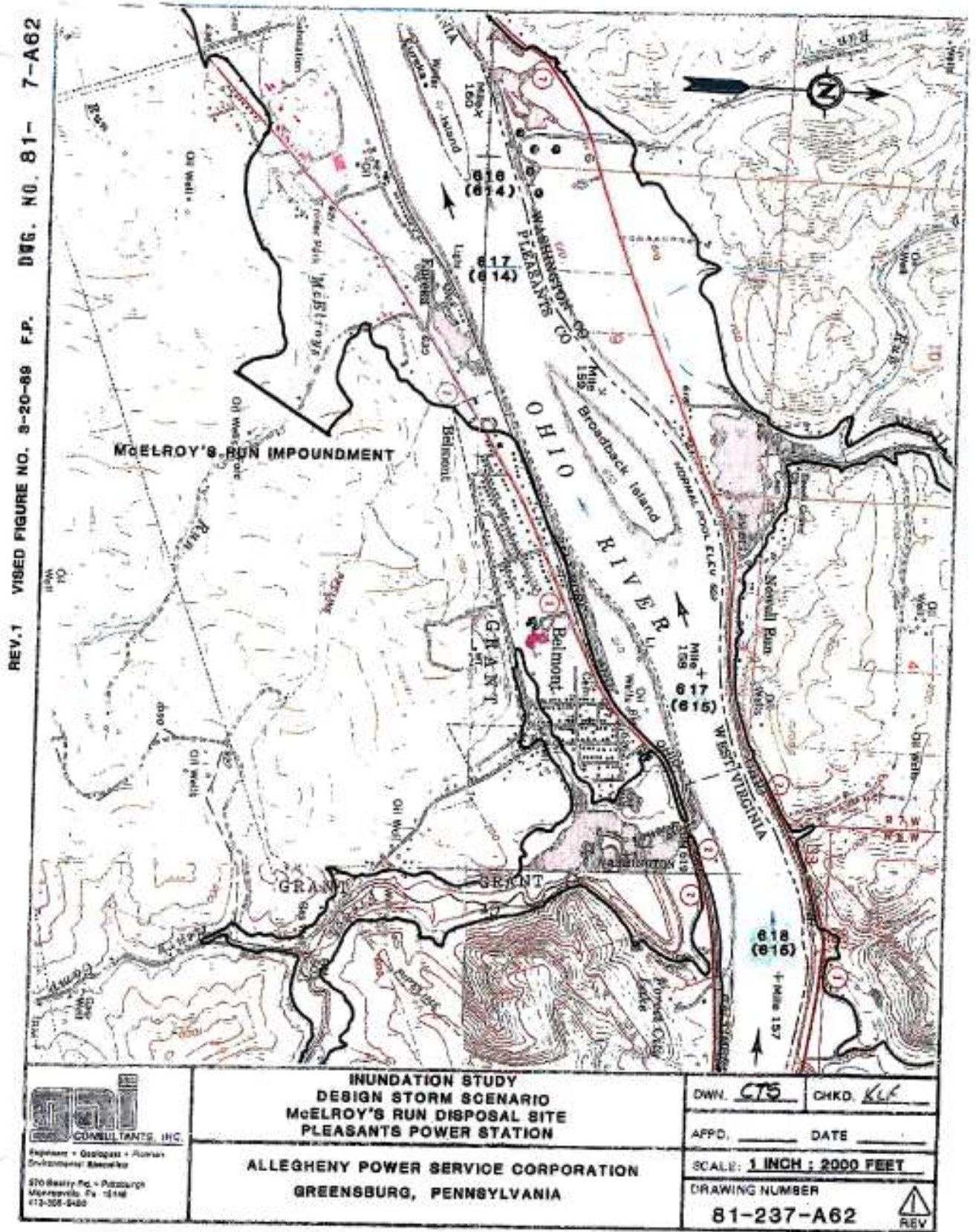


FIGURE B4

McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016

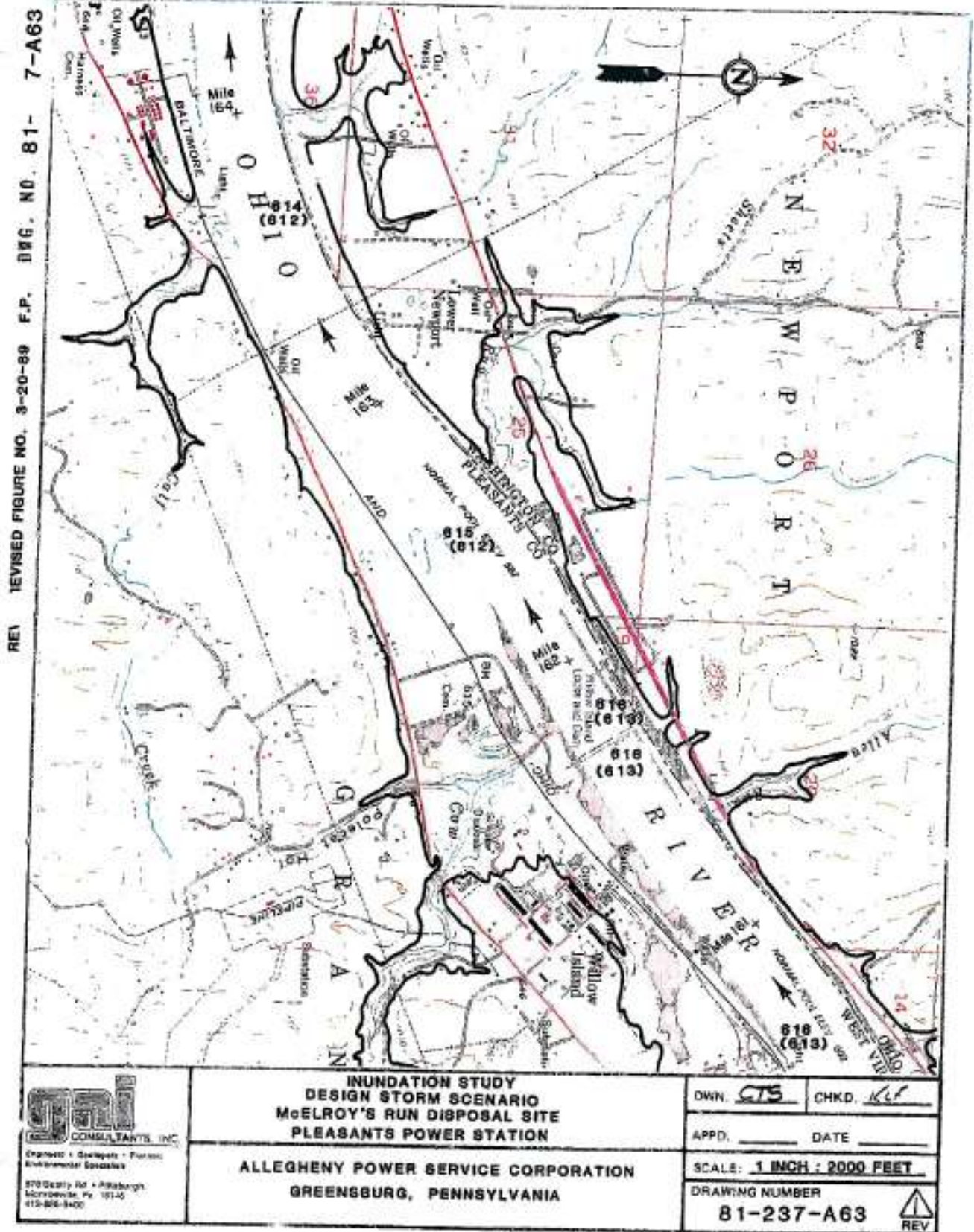
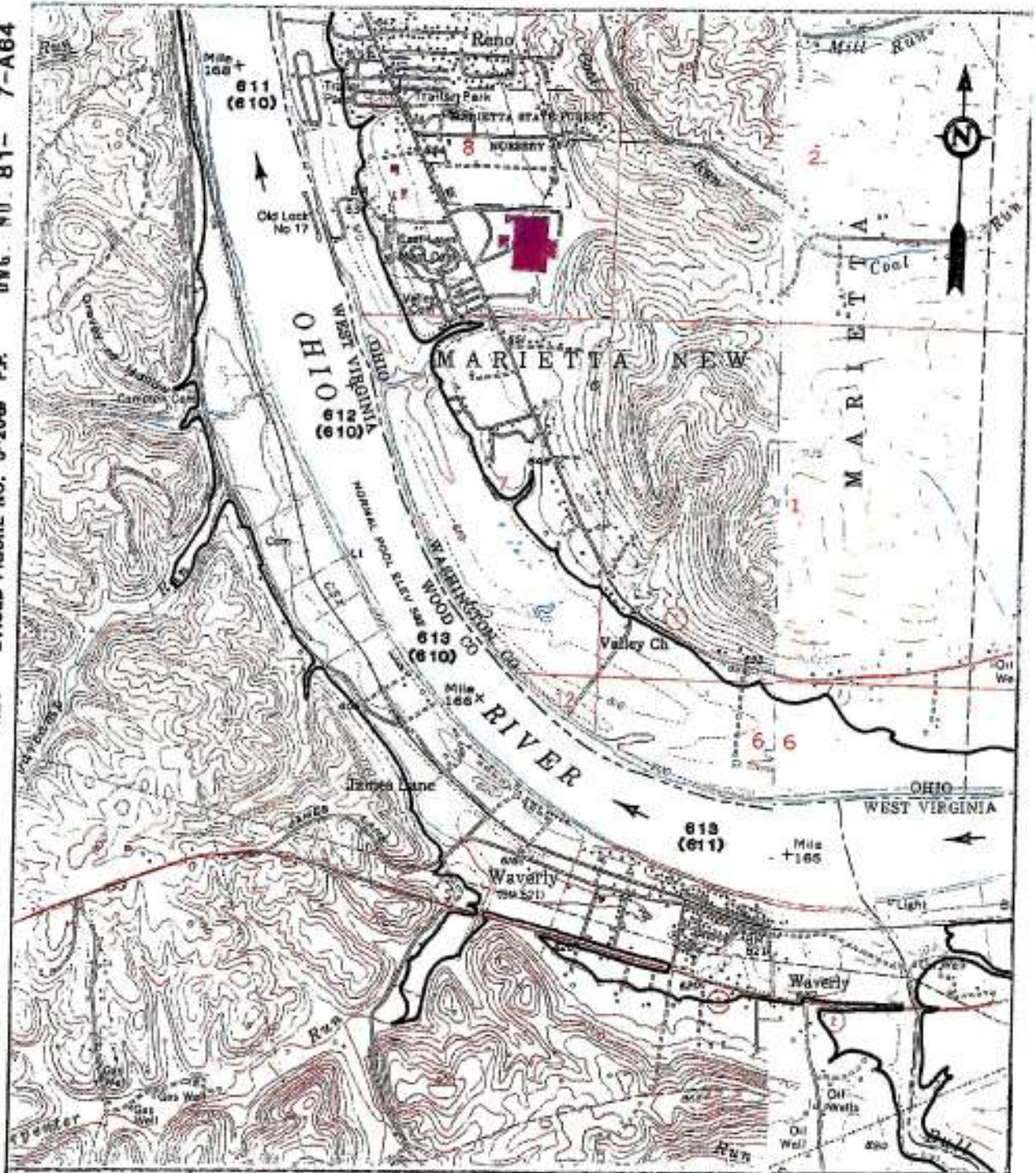


FIGURE B5

McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016

REV. REVISED FIGURE NO. 3-2009 F.P. DWG. NO. 81- 7-A64





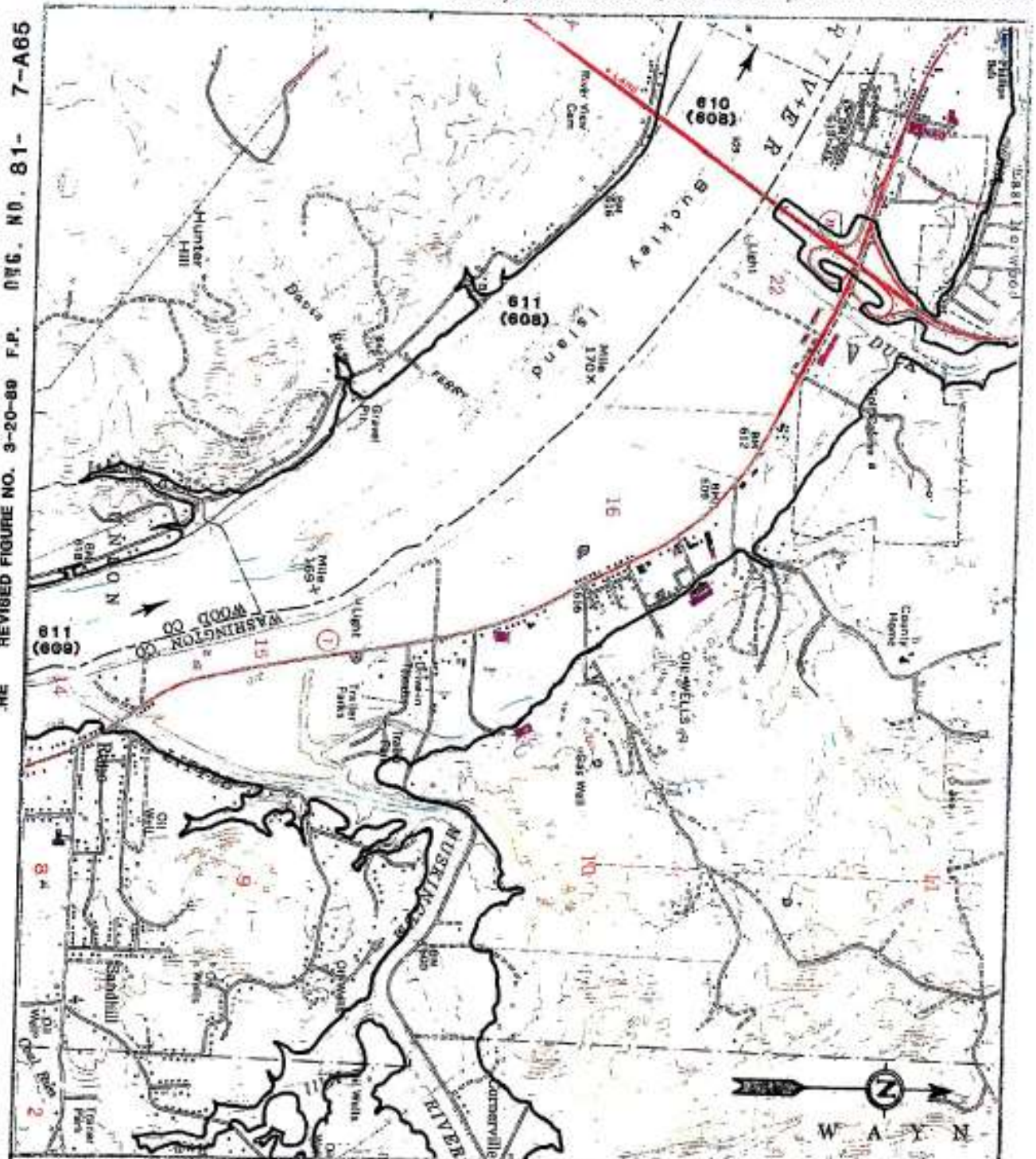

 <p>GMI CONSULTANTS, INC. Engineers • Geologists • Planners Environmental Scientists 570 Barry Rd. • Pittsburgh Marysville, Pa. 15106 724-666-9400</p>	INUNDATION STUDY DESIGN STORM SCENARIO MCELROY'S RUN DISPOSAL SITE PLEASANTS POWER STATION		DWN: <u>CTS</u> CHKD: <u>LEE</u>
	ALLEGHENY POWER SERVICE CORPORATION GREENSBURG, PENNSYLVANIA		APPD: _____ DATE: _____
			SCALE: 1 INCH : 2000 FEET
			DRAWING NUMBER 81-237-A64 

FIGURE B6

McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016

REVISED FIGURE NO. 3-20-89 F.P. DWG. NO. 81-7-A65



 Engineers • Geologists • Planners Environmental Specialists 570 Denby Tr. • Pittsburgh Microeville, Pa. 15108 412-986-0433	INUNDATION STUDY DESIGN STORM SCENARIO McELROY'S RUN DISPOSAL SITE PLEASANTS POWER STATION		DWN. <u>CTS</u> CHKD. <u>KLC</u>
	ALLEGHENY POWER SERVICE CORPORATION GREENSBURG, PENNSYLVANIA		APPD. _____ DATE _____
		SCALE: <u>1 INCH : 2000 FEET</u>	
		DRAWING NUMBER 81-237-A65	
		FIGURE B7	

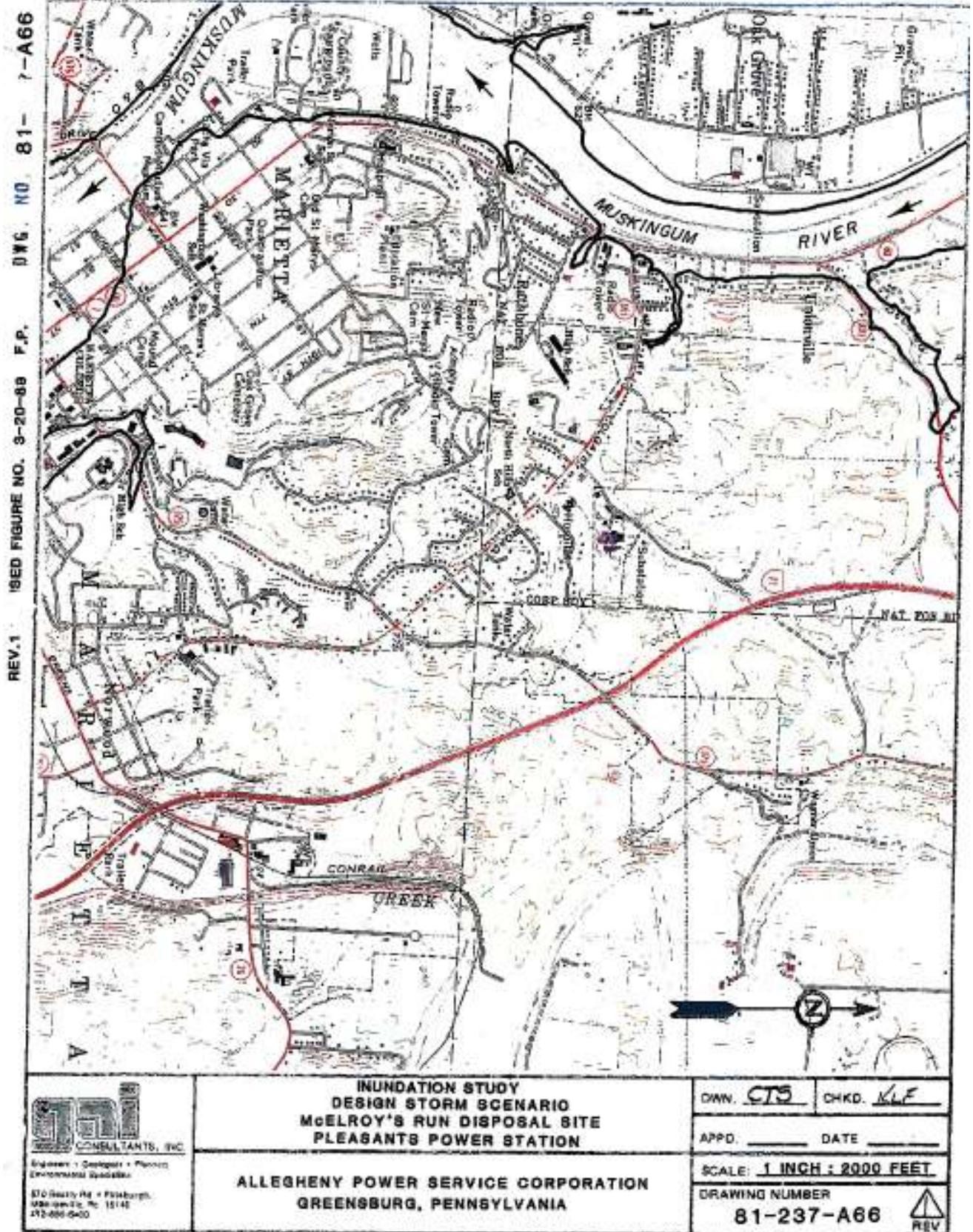
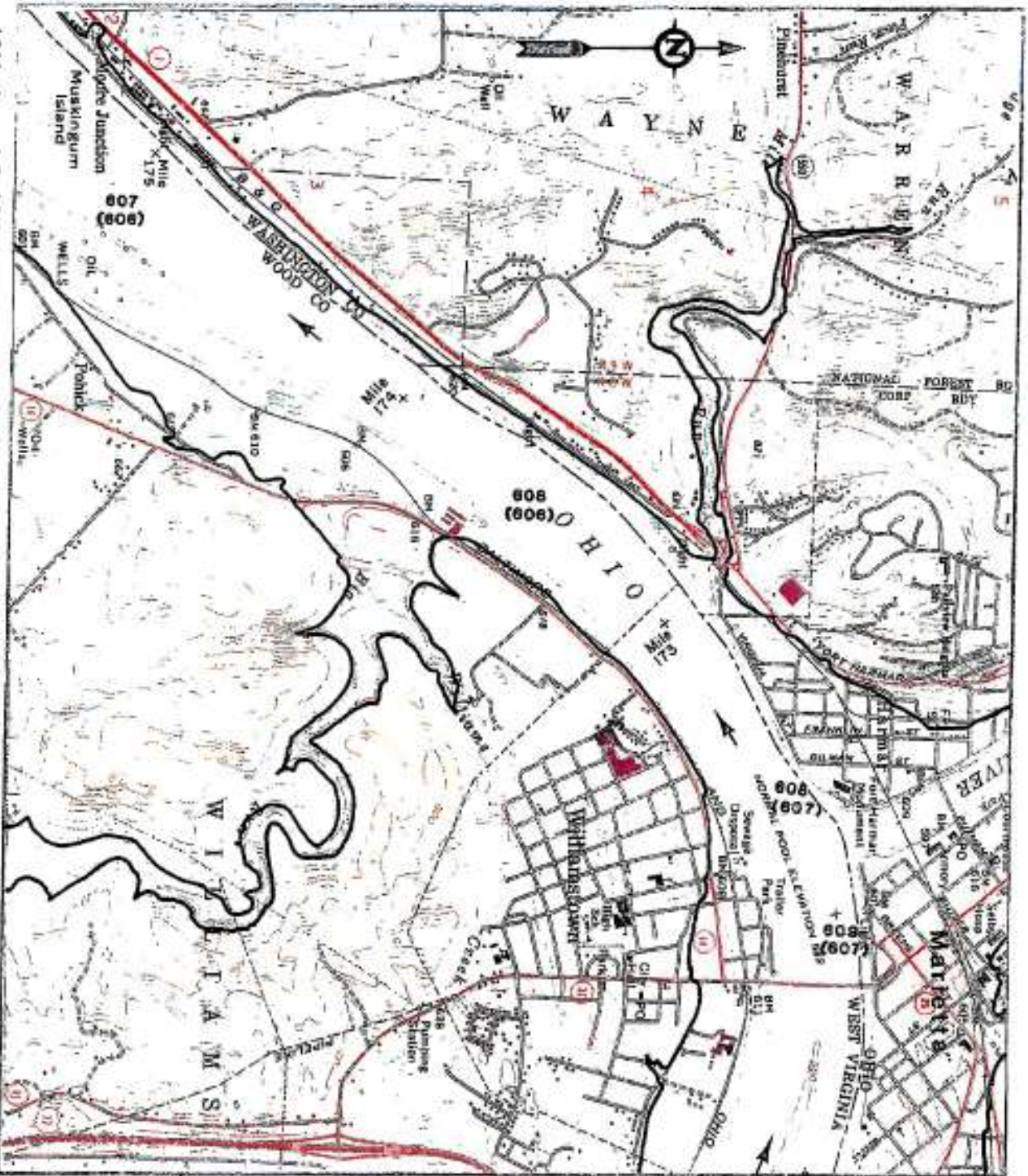


FIGURE B8

McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016

REV I E V I D E D F I G U R E N O . 3 - 2 0 - 8 0 F . P . D W G . N O . 8 1 - 7 - A 6 7



ALLEGHENY CONSULTANTS, INC.
 Engineers • Geologists • Planners
 Environmental Specialists
 372 Bessie Ave • Pittsburgh
 PA 15201 • Phone 412-688-0022

**INUNDATION STUDY
 DESIGN STORM SCENARIO
 McELROY'S RUN DISPOSAL SITE
 PLEASANTS POWER STATION**

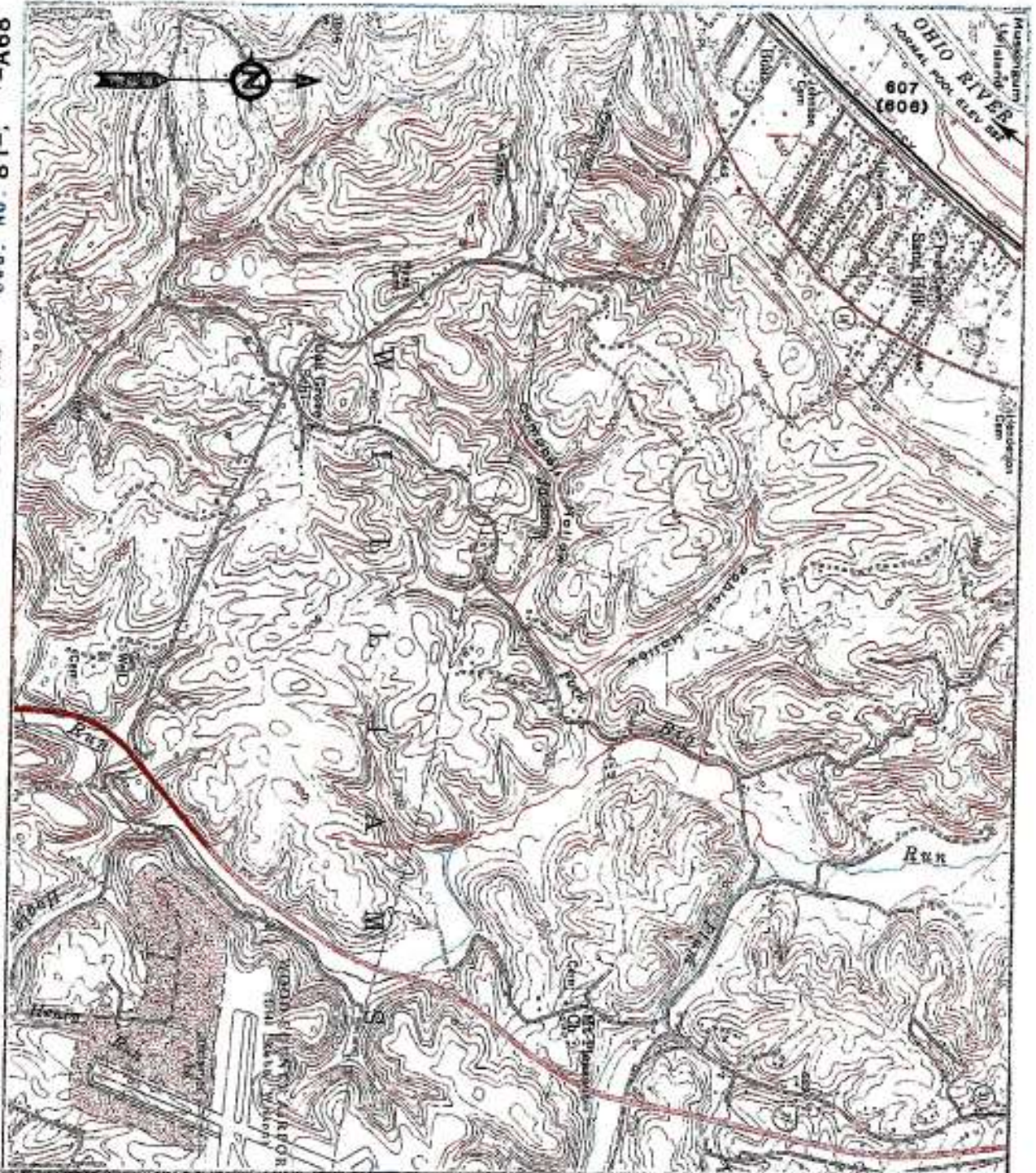
**ALLEGHENY POWER SERVICE CORPORATION
 GREENSBURG, PENNSYLVANIA**

OWN. CT5	CHKD. KLF
APPD. _____	DATE _____
SCALE: 1 INCH = 2000 FEET	
DRAWING NUMBER 81-237-A67	

FIGURE B9

McElroy's Run Embankment, Pleasants County, ID# 07302, November 18, 2016

REV. VIBED FIGURE NO. 9-20-80 F.P. DWG. NO. 81-; T-A68





 <p>G&A CONSULTANTS, INC. Engineers • Geologists • Planners Environmental Specialists 570 Saddy Rd. / P.O. Box 67 Greensburg, Pa. 15748 412-836-0400</p>	INUNDATION STUDY DESIGN STORM SCENARIO McELROY'S RUN DISPOSAL SITE PLEASANTS POWER STATION		DWN. <u>GTO</u>	CHKD. <u>ket</u>
	ALLEGHENY POWER SERVICE CORPORATION GREENSBURG, PENNSYLVANIA		APPD. _____	DATE _____
		SCALE: 1 INCH = 2000 FEET		
		DRAWING NUMBER 81-237-A68		

FIGURE B10

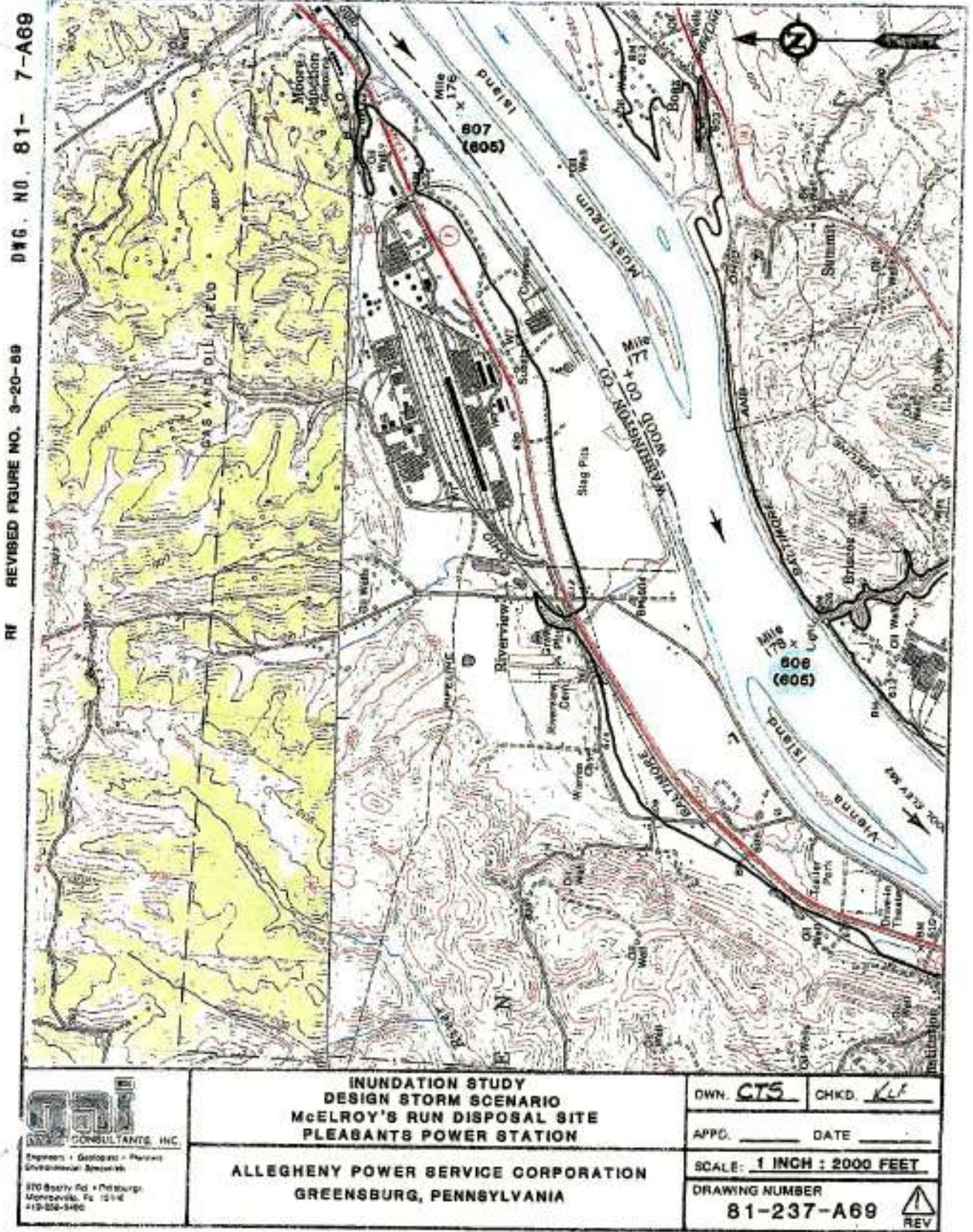


FIGURE B11

Section II-D – Evacuation Center:

The Emergency Evacuation Center for McElroy's Run Embankment and Impoundment Area is the Jim Spence Community Center in Pleasants County Park. The Director of Emergency Services for Pleasant's County, WV has recommended this location.

The location of the primary Emergency Evacuation Center:

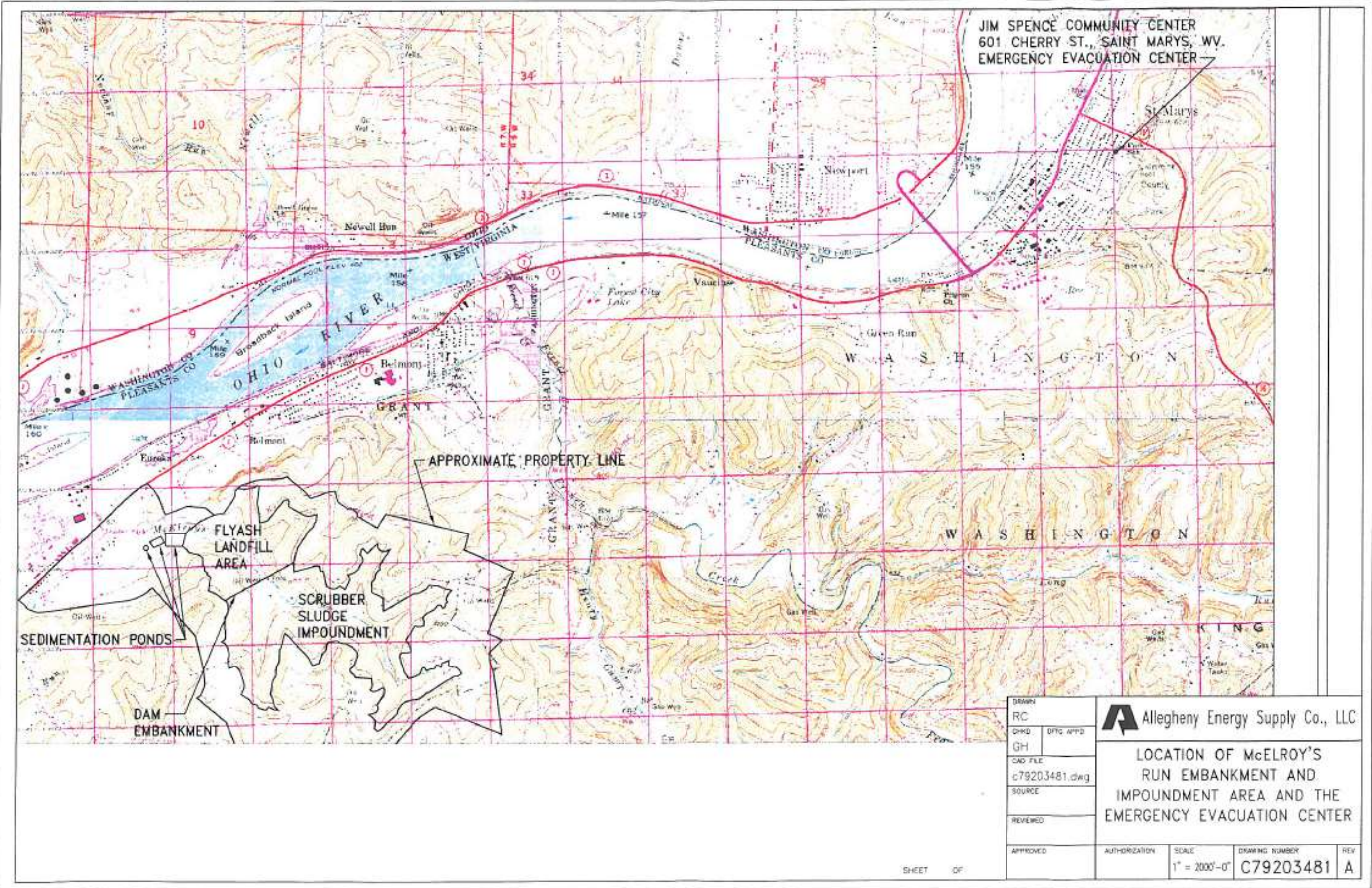
The Jim Spence Community Center
Pleasants County Park
605 Cherry Street
St. Mary's, WV 26170.

See following page for map of the center location.

The location of the secondary Emergency Evacuation Center:

the First Baptist Church
425 Barkwill Street
St. Mary's, WV 26170

The Emergency Services Director of Pleasants County would determine additional evacuation centers if the primary and/or the secondary centers would be filled or unavailable. These centers may include facilities of the Pleasants County School District.



<table border="1"> <tr><td>DRAWN</td><td>RC</td></tr> <tr><td>CHKD</td><td>BFG APPD</td></tr> <tr><td>GH</td><td></td></tr> <tr><td>CAD FILE</td><td>c79203481.dwg</td></tr> <tr><td>SOURCE</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>APPROVED</td><td></td></tr> </table>	DRAWN	RC	CHKD	BFG APPD	GH		CAD FILE	c79203481.dwg	SOURCE		REVIEWED		APPROVED		<p>Allegheny Energy Supply Co., LLC</p> <p>LOCATION OF McELROY'S RUN EMBANKMENT AND IMPOUNDMENT AREA AND THE EMERGENCY EVACUATION CENTER</p>
DRAWN	RC														
CHKD	BFG APPD														
GH															
CAD FILE	c79203481.dwg														
SOURCE															
REVIEWED															
APPROVED															
<p>SHEET OF</p>	<table border="1"> <tr> <th>AUTHORIZATION</th> <th>SCALE</th> <th>DRAWING NUMBER</th> <th>REV</th> </tr> <tr> <td></td> <td>1" = 2000'-0"</td> <td>C79203481</td> <td>A</td> </tr> </table>	AUTHORIZATION	SCALE	DRAWING NUMBER	REV		1" = 2000'-0"	C79203481	A						
AUTHORIZATION	SCALE	DRAWING NUMBER	REV												
	1" = 2000'-0"	C79203481	A												

Part III - Post Evacuation Notification Action

Section III-A: No Failure Occurs

Should no failure occur and based on the prescribed monitoring procedures the integrity of the structure is declared stable:

<u>Action</u>	<u>Responsibility</u>
<p>1. Notify the Sheriff's Department of Pleasants County, WV by telephone or the station's emergency radio system and issue the following statement to the responding party:</p> <p>"This is (name of caller) of FirstEnergy Environmental Department notifying you that the emergency situation for McElroy's Run Embankment has passed. Please notify the Sheriff's Department of Washington County, OH; the Sheriff's Department of Wood County, WV; the U.S. Army Corp of Engineers at the Willow Island Lock and Dam; and the West Virginia Department of Environmental Protection (WV DEP) – Dam Safety Section of this situation."</p> <p>Answer any questions that the respondent may have. Record initial and all subsequent communications on the "Notification Log Sheet" (Appendix D).</p> <p><u>Check when notified:</u></p> <p>_____ Sheriff's Department of Pleasants County, WV (304) 684-2285 If Sheriff's office cannot be contacted, use: 9-1-1 (304) 684-0911</p>	<p>FirstEnergy Corporate Environmental</p> <p>Carol L. Hoffman, Site Supervisor (330) 814-1534</p> <p>OR</p> <p>Designated Representative</p>
<p>2. Cancel evacuation notification.</p> <p><u>Check when notified:</u></p> <p>_____ Pleasants Power Station (Control Room) (304) 665-2220 _____ DWWM Sam Safety Section 800-642-3074 _____ Sheriff's Department of Washington County, OH (740) 376-7070 If Sheriff's office cannot be contacted, use: (740) 373-2833 _____ Sheriff's Department of Wood County, WV (304) 424-1835 _____ U.S. Army Corp of Engineers, Willow Island (304) 665-2520</p>	<p>DWWM Dam Safety</p> <p>OR</p> <p>Pleasants County OEM</p>

Section III-B: Dam Failure Occurs

Should failure occur:

<u>Action</u>	<u>Responsibility</u>
<p>1. Notify the Sheriff’s Department of Pleasants County, WV by telephone or the station’s emergency radio system and issue the following statement to the responding party:</p> <p>“This is (name of caller) of FirstEnergy Environmental Department notifying you that the McElroy’s Run Embankment, has failed. Please notify the Sheriff’s Department of Washington County, OH; the Sheriff’s Department of Wood County, WV; the U.S. Army Corp of Engineers at the Willow Island Lock and Dam; and the West Virginia Department of Environmental Protection (WV DEP) – Dam Safety Section of this situation.”</p> <p>Answer any questions that the respondent may have. Record initial and all subsequent communications on the "Notification Log Sheet" (Appendix D).</p> <p><u>Check when notified:</u></p> <p>_____ Sheriff’s Department of Pleasants County, WV (304) 684-2285 If Sheriff’s office cannot be contacted, use: 9-1-1 (304) 684-0911</p>	<p>FirstEnergy Corporate Environmental</p> <p>Carol L. Hoffman, Site Supervisor (330) 814-1534</p> <p>OR</p> <p>Designated Representative</p>
<p>2. Issue notification to the following agencies:</p> <p><u>Check when notified:</u></p> <p>_____ Pleasant Power Station (Control Room) (304) 665-2220 _____ DWWM Sam Safety Section 1-800-642-3074 _____ Sheriff’s Department of Washington County, OH (740) 376-7070 If Sheriff’s office cannot be contacted, use: (740) 373-2833 _____ Sheriff’s Department of Wood County, WV (304) 424-1835 _____ U.S. Army Corp of Engineers, Willow Island (304) 665-2520</p>	<p>DWWM Dam Safety</p> <p>OR</p> <p>Pleasants County OEM</p>
<p>3. FirstEnergy Emergency Teams shall help Pleasants County OEM to:</p> <ul style="list-style-type: none"> a. Evacuation or assistance persons stranded in homes b. Aid in search and rescue efforts c. Offer cleanup crews and equipment 	


Part IV - Administrative and Record Keeping

Section IV-A - Signature and Distribution List

SIGNATURE:

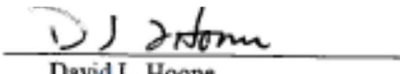
County Office of Emergency Management:

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

NAME	TITLE	DATE
 Steve Knight	<u>Director, Pleasants County OES</u>	<u>1/15/2020</u>

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

The undersigned states he/she will distribute a copy of the Monitoring and Emergency Action Plan for the McElroy's Run Embankment and Impoundment Area within fifteen days after receipt of DWWM Dam Safety Section approval to the persons named in the Distribution List below:

NAME	TITLE	DATE
 David L. Hoone	<u>Supv. CCR and Waste Programs</u>	<u>1/20/2020</u>

DISTRIBUTION of the EMERGENCY ACTION PLAN:

<u>Name</u>	<u>Complete Mailing Address</u>
Delbert Shriver Senior Engineer WV DEP Dam Safety Section	DEP Division of Water and Waste Management EE/Dam Safety Section 601 57 th Street SE Charleston, WV 25304
D. Wayne Wilson Pleasants County Sheriff	Pleasants County Sheriff's Department 305 Barkwill Street, St Marys, WV 26170 Phone: 304-684-2285
Chuck Mankins, Director 911 Tina Oldfield, Asst. Director 911 Pleasants County 911	Pleasants County 911 215 Clay Street St. Marys, WV 26170 Phone: 304-684-0911 304-684-0035 (outside county or cell phone)
	Note: Five (5) copies of the MEAP will be provided to Tina Oldfield for distribution to the Sheriff's Department and other appropriate Emergency Response personnel of Pleasants County, WV.
Steve Knight, Director Emergency Services	Pleasants County Office of Emergency Services 215 Clay Street St. Marys, WV 26170 Phone: 304-684-0911 304-684-0035 (outside county or cell phone)
Larry Mincks Washington County Sheriff	Washington County Sheriff's Department 309 Fourth Street Marietta, OH 45750 Phone: 740-376-7070 740-373-2833
Steven A. Stephens Wood County Sheriff	Wood County Sheriff's Department 401 Second Street Parkersburg, WV 26101 Phone: 304-424-1835 Contact through: Central Telecommunications Center 901 Core Road Parkersburg, WV 26101 Phone: 304-485-8501
	Note: Copies will be mailed to both the Sheriff's Department and the Telecommunications Center
Billy G. Collins, Lock Master	U.S. Corps of Engineers, Willow Island Lock and Dam 32400 State Route 7 Newport, OH 45768 Phone: 304-665-2520 West Virginia Division of Homeland Security and Emergency Management 1900 Kanawha Boulevard East Building 1, Room EB-80 Charleston, WV 25305-0360
Pleasants Power Station Manager	Pleasants Power Station Manager 2 Power Station Blvd. Willow Island, WV 26134 Note: 5 Copies to distribute, Managers, Control Room, Op Supervisor

Section IV-B - Inspection Records

*Inspection records are archived with FirstEnergy Environmental Department and at the McElroy Impoundment Office. Carol L. Hoffman, or delegate, shall produce these documents by request of the County OEM. Please see **Appendix B** for sample of the weekly inspection report to be used with this EAP if Section 1-B, Adverse Conditions applies.*

APPENDIX A – PERSONNEL

Listed below are personnel with the authority to act on my behalf regarding actions that must be implemented to operate and maintain the safety of the McElroy's Run Impoundment or their designated representative. Each person is familiar with the impoundment and the company's duties and responsibilities related thereto.

<u>NAME</u>	<u>TITLE</u>	<u>PHONE NO.</u>
Carol. L. Hoffman	Senior Scientist	(304) 480-1230 office (330) 814-1534 mobile
John Kapolka	Sr. Environmental Specialist	(724) 838-6824 office (724) 244-6935 mobile
Ralph E. Borsani	Consultant Engineer	(724) 830-5909 office (724) 433-3344 mobile
Frank D Lawson	Supervisor, Remediation & Environmental Services	(973) 401-8309 office (215) 264-8113 mobile
Mark A. Vindivich	Manager, Remediation, CCR & Environmental Services	(301) 790-6314 office (301) 331-4354 mobile


David L. Hoone

Supervisor, CCR and Waste Programs
 FirstEnergy, Environment Department

1/31/2020
 Date

APPENDIX B – INSPECTION REPORT

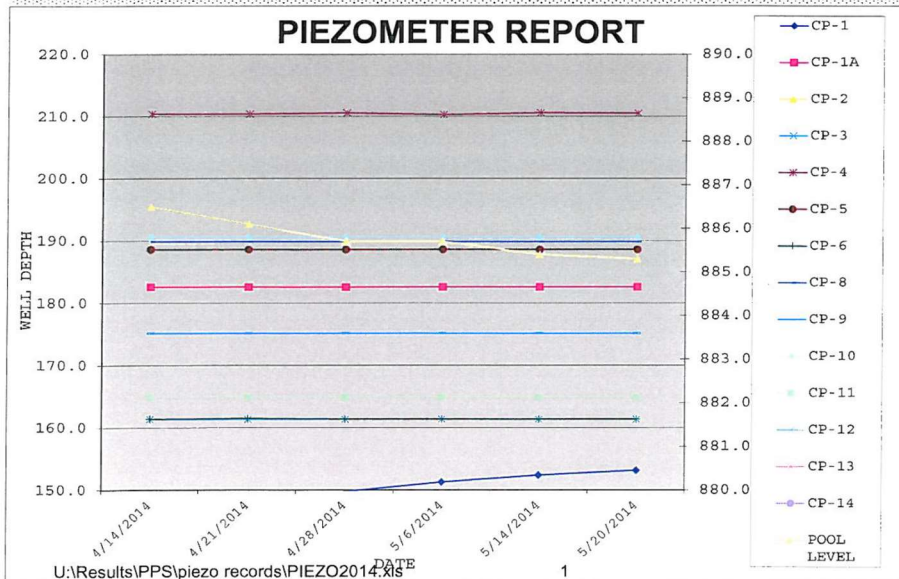
To be used when Section 1-B Adverse Conditions Apply

FIRSTENERGY McELROY'S RUN EMBANKMENT AND IMPONDMENT AREA INSPECTION REPORT(page 1 of 2)

REPORT DATE		5/20/2014	
CONTACT: ERIC MEYER 304-665-3217		WELL	
		DEPTH	WET
		DRY	ELEVATION
		CP-1	
		CP-1A	
		CP-2	
		CP-3	
		CP-4	
		CP-5	
		CP-6	
		CP-8	
		CP-9	
		CP-10	
		CP-11	
		CP-12	
		CP-13	
		CP-14	

PIEZOMETER READINGS (FEET)		
POOL LEVEL (FEET)	885.3	
POND SIPHON LINE EFFLUENT WEEKLY TOTALIZED FLOW READING X 1,000 GALLONS	24,362	TOTALIZER COUNT X 1000 1,406,034
APPROXIMATE FLOW RATE (GPM)	2800	
FLOW WEIR (GPM)	50	Check question 3 page 2.
RAIN GAUGE (INCHES)	1.02	NOTE: RAINFALL EQUAL TO 7,446,000 GALLONS
TEMPERATURE	81	
RECORDED BY (ENTER INITIALS)		

2114



**FIRSTENERGY
McELROY'S RUN
EMBANKMENT AND IMPONDMENT AREA
INSPECTION REPORT (page 2 of 2)**

<u>Item</u>	<u>Description</u>	<u>Observation</u>	<u>Comment</u>
1	Confirm pool elevation is below 890 MSL		Record elevation
2	Confirm the top of the 890 decant tower opening is unobstructed		If not, make arrangements for removing obstructions
3	Check records to confirm the 885 gate has been verified to operate within the past year.		Record date. If no, make arrangement for verification
4	Inspect all visible slopes of the embankment for erosion, cracks, seepages, bulges, or other signs of instability		
5	Emergency Spillway unobstructed		If no, make arrangements for cleaning
6	Piezometer readings taken		Confirm readings recorded
7	Measure the foundation drain flows and visually ascertain if sediment is entrained		If sediment is observed or if a noticeable increase since the last observation contact the Site Supervisor;

General Comments/Observations:

Inspected by: _____ **Time:** _____ **Date:** _____

Note: Place original completed inspection report in the FE Impoundment Office; use a copy for the next inspection to help notice and record any changes.

APPENDIX C – UNUSUAL OR EMERGENCY EVENT LOG

**FIRSTENERGY
McELROY'S RUN
EMBANKMENT AND IMPONDMENT AREA
UNUSUAL/EMERGENCY EVENT LOG**

Dam Name: **McElroy's Run Embankment, # 07302**

When and how was the event detected?

General description of the emergency:

ACTION AND EVENTS PROGRESSION

Date	Time	Action/Event Progression	Taken by

Report Prepared By: _____ Date: _____

APPENDIX D – NOTIFICATION LOG SHEET

**FIRSTENERGY
McELROY'S RUN
EMBANKMENT AND IMPONDMENT AREA
EMERGENCY WARNING PROCEDURES
NOTIFICATION LOG SHEET**

Agency: _____

Date: _____

Time: _____

Status Code*: _____

Responding Party: _____

Remarks/Questions:

- *Status Codes:**
- 1 – Standby Alert**
 - 2 – Evacuation Alert – implement evacuation procedures**
 - 3 – Dam Failure Has Occurred – implement evacuation procedures**
 - 4 – Emergency Situation Has Passed – cancel alert**

ATTACHMENT B

Qualified Professional Engineer Certification

FIRSTENERGY CORPORATION
ALLEGHENY ENERGY SUPPLY COMPANY, LLC
McELROY'S RUN EMBANKMENT & IMPOUNDMENT AREA
EMERGENCY ACTION PLAN (EAP)
CHECKLIST & CERTIFICATION/STATEMENT OF PROFESSIONAL OPINION

Checklist of Requirements of the EAP - pursuant to CCR Regulation 257.73(a)(3)

p. 6-34 The EAP defines the events or circumstances involving the CCR unit that represent a safety emergency, along with a description of the procedures that will be followed to detect a safety emergency in a timely manner. [257.73(a)(3)(i)(A)]

p. 6-14 & 36,37,39 The EAP defines the responsible persons, their respective responsibilities, and notification procedures in the event of a safety emergency involving the CCR unit. [257.73(a)(3)(i)(B)]

p. 37, 39, & 41 The EAP provides contact information of emergency providers. [257.73(a)(3)(i)(C)]

p. 23-33. The EAP includes a map which delineates the downstream area which would be affected in the event of a CCR unit failure and a physical description of the CCR unit. [257.73(a)(3)(i)(D)]

Att. C The EAP includes provisions for an annual face-to-face meeting or exercise between representatives of the owner or operator of the CCR unit and the local emergency responders. [257.73(a)(3)(i)(E)]

p.1 The EAP provides for amendment of the EAP whenever there is a change in conditions that would substantially affect the EAP in effect. [257.73(a)(3)(ii)(A)]

P. 1 The EAP will be evaluated, at a minimum, every five years, to ensure that the information required in 257.73(a)(3)(i) is accurate. The EAP will be updated as necessary, and placed in the facility's operating record. [257.73(a)(3)(ii)(B)]

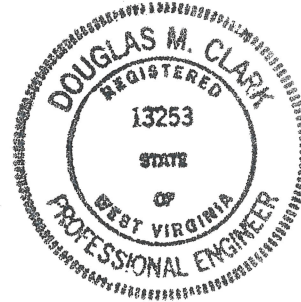
Certification/Statement of Professional Opinion

The Emergency Action Plan (Plan) for the McElroy's Run Embankment and Impoundment Area was prepared by FirstEnergy, Inc., and has been reviewed for compliance with the applicable sections of the United States Environmental Protection Agency's "Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments", published in the Federal Register on April 17, 2015 with an effective date of October 19, 2015. The Plan has been based on certain information that CEC has relied on but not independently verified. Therefore, this Certification/Statement of Professional Opinion is limited to the information available to CEC. On the basis of and subject to the foregoing, it is my professional opinion as a Professional Engineer licensed in the State of West Virginia that the Plan has been prepared consistent with the requirements of Section 257.73(a)(3) of the United States Environmental Protection Agency's "Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments", published in the Federal Register on April 17, 2015 with an effective date of October 19, 2015.

The use of the words "certification" and/or "certify" in this document shall be interpreted and construed as a Statement of Professional Opinion and is not and shall not be interpreted or construed as a guarantee, warranty, or legal opinion.

Signed Douglas M Clark

Seal



Print Douglas M. Clark

Date 11-21-2020

ATTACHMENT C

C1: Annual EAP Review

C2: Log of Amendments to EAP

ATTACHMENT C-1

ANNUAL EAP REVIEW

Pursuant to 40 CFR §257.73(3)(i)(E) an annual meeting (beginning in calendar year 2018) will be held between representatives of FirstEnergy and the local emergency responders. The date and attendees of the meeting will be recorded and placed in the operating record.

Annual Emergency Action Plan Meeting Attendance List

Facility: _____

Date: _____

Location: _____

ATTENDEES

Name (Print): _____

Signature: _____

Affiliation: _____

Email: _____

Phone: _____

Name (Print): _____

Signature: _____

Affiliation: _____

Email: _____

Phone: _____

Name (Print): _____

Signature: _____

Affiliation: _____

Email: _____

Phone: _____

ATTACHMENT C-2

LOG OF AMENDMENTS TO EAP

