

EMERGENCY ACTION PLAN

SURVEILLANCE, WARNING AND EVACUATION PROCEDURES

**SHAVER CREEK DAM
DEP NUMBER D31-072**

**LOCATED ACROSS SHAVER CREEK IN
BARREE TOWNSHIP, HUNTINGDON COUNTY**

LATITUDE 40° 39' 32" LONGITUDE 77° 55' 02"

**SIZE CLASSIFICATION "B"
HAZARD POTENTIAL CATEGORY "1"**

**OPERATED BY: CHARLENE DETWILER, SUPERVISOR
STONE VALLEY RECREATION AREA
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UNIVERSITY PARK, PA 16802**

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PEMA AND DEP APPROVALS

The Pennsylvania Emergency Management Agency approves the Emergency Action Plan for Shaver Creek Dam (D31-072).

Fern W Harmon

Date *9/24/2010*

Fern Harmon, Central Area Director
Pennsylvania Emergency Management Agency

The Department of Environmental Protection, Bureau of Waterways Engineering, Division of Dam Safety hereby approves the Emergency Action Plan for Shaver Creek Dam (D31-072).

Roger Adams

Date *9/29/10*

Roger Adams, Chief, Division of Dam Safety

I. PURPOSE AND SCOPE

- A. To safeguard the lives as well as to reduce property damage of the citizens living within the dam's potential downstream flood or inundation area.
- B. To provide for effective dam surveillance, prompt notification to local emergency management agencies, citizen warning, and evacuation response, when required.
- C. To identify emergency actions to be taken by the dam owner/operator, public officials, emergency personnel, and to outline response actions in the event of a potential or imminent failure of the dam.

II. SITUATION

- A. The dam is a 48-foot high, 540-foot long earthen dam, maintaining a normal pool of 1,224-acre-feet of water with a maximum pool capacity of 2,387 acre-feet. The primary spillway is a concrete-lined chute located on the left abutment.
- B. The dam is located across Shaver Creek, 0.5 mile east of Petersburg Road (State Route 1029) and 12 miles northeast of Petersburg Borough. Shaver Creek flows toward the confluence with the Juniata River at Petersburg Borough. Refer to Location Map in *Attachment C*.
- C. The inundation area resulting from a sudden dam failure is between PA 305/PA 1029 on the northwest, and PA 1029 on the southeast, and includes low-lying areas along Shaver Creek in Barree, West, and Logan Townships, and Petersburg Borough. Refer to the Inundation Map in *Attachment A*.
- D. Within the inundation area from the dam to a point approximately nine (9) miles downstream at Ribot, a few houses, farms, and forest exist along the creek. No business districts, schools, health care, or childcare facilities were identified in the downstream inundation area within nine (9) miles of the dam. Farther downstream, toward Petersburg Borough, some manufacturers, grocery stores, mobile homes, and residential houses are located within the inundation area. In Petersburg Borough, the impacted population is about 500. Two (2) small manufacturers and about 200 houses are in the Borough. Within the total inundation area are about 650 residents and 2 small manufacturers. Juniata Valley School District operates school bus routes to Juniata Valley Elementary School and Juniata Valley Junior/Senior High School through the inundation area. Refer to the Inundation Map in *Attachment A*.

III. CONCEPT OF OPERATIONS

A. SURVEILLANCE – NORMAL CONDITIONS - (DAM OWNER OR OPERATOR)

1. The Director of Strength, Training, and Fitness or a designated representative will conduct an on-site visual inspection of the dam, the dam's spillway, 4' x 4' outlet conduit, and the embankment toe area below the dam at a minimum of once every three months. In addition, the discharge sluice gate will be operated annually. Any abnormal or questionable conditions will be immediately brought to the attention of the owner's engineer and the Division of Dam Safety of DEP.

B. SURVEILLANCE – UNUSUAL EVENT CONDITIONS - (DAM WATCH)

1. The Director of Strength, Training, and Fitness or a designated representative will commence surveillance of conditions at the dam site when:
 - a. Severe thunderstorms, heavy rains with local flood warnings, tropical storms and hurricanes, or heavy rains with frozen ground and/or snow cover are occurring.
 - b. The National Weather Service issues a flash flood watch or warning and conditions warrant.
 - c. Any abnormal or questionable conditions as identified in Section III.D.1.

C. EARLY WARNING NOTIFICATION

1. The Director of Strength, Training, and Fitness or a designated representative is responsible for determining the dam's threat potential. The following conditions constitute a dam early warning notification to the Huntingdon County PSAP/911 and require 24-hour around-the-clock surveillance.
 - a. The water level in the impoundment has reached the threshold level of 8 feet below the top of dam (4.5 feet on staff gage) and is rising, or
 - b. Following the occurrence of an earthquake in the general region of the dam.
2. Early warning notification will be relayed from the Huntingdon County PSAP/911 to the Huntingdon County EMC, the PEMA State EOC and all applicable emergency responders and designated government officials and agencies.

D. WARNING AND EVACUATION NOTIFICATION

1. The Director of Strength, Training, and Fitness or a designated representative is responsible for determining the dam's threat potential. The following conditions constitute a dam emergency requiring warning and evacuation notification to the Huntingdon County PSAP/911.

- a. The depth of flow in the principal spillway has reached the depth of 9.5 feet (9.5 feet on staff gage).
 - b. The water level in the impoundment area has reached the threshold level of 3 feet below the top of the dam (9.5 feet on staff gage).
 - c. Imminent failure of this dam might be indicated by observance of one or more of the following conditions at the dam site:
 - i. The lake or pond level is at or near the top of the dam and water is flowing, or about to flow, over the top of the dam.
 - ii. The primary spillway is damaged, or clogged with debris or ice, which is resulting in a rapid rise in the lake or pond level.
 - iii. The primary spillway is experiencing heavy flows which are causing severe erosion to the spillway or the dam embankment.
 - iv. Any structural movement or failure of the concrete primary spillway or the spillway abutment walls.
 - v. Any sloughing or sliding of the embankment upstream or downstream slope. Also, earth slides in the spillway channel, either upstream or downstream of the dam's crest, which could impede the flow in the spillway.
 - vi. Subsidence, sinkholes or cracks found in any part of the dam's embankment or abutting slopes.
 - vii. Any new discharge of water is observed through the dam's embankment or abutting slopes, adjacent to any conduit outlets, or under the dam which appears as a boil along the downstream toe. Should such a discharge occur and the water is cloudy or muddy in color, then a very serious problem exists.
 - viii. Increase in flow from boils is observed along downstream toe.
2. Warning and evacuation notification will be relayed from the Huntingdon County PSAP/911 to the Huntingdon County EMC, the PEMA State EOC and all emergency responders and designated government officials and agencies.
 3. Emergency management officials will accomplish the needed actions, which are explained in this EAP, in accordance with their existing recommended operating guidelines and existing municipal or county emergency operation plans.
 4. Warning and evacuation of the public must commence upon notification by the Director of Strength, Training, and Fitness or a designated representative of a potential or imminent failure of the dam. Emergency responders should initiate action in accordance with plan outline and any existing internal organizational recommended operating guidelines, and existing municipal or county operation plans.

E. TERMINATION OF SURVEILLANCE

1. The Director of Strength, Training, and Fitness or a designated representative may terminate 24-hour surveillance of dam site conditions when:
 - a. All National Weather Service flash flood watches or warnings have expired.
 - b. Heavy rains have ended and the water level in the lake has dropped to 10 feet below the top of dam (2.5 feet on staff gage) and is receding.
 - c. After personal inspection of the dam site has been conducted by a knowledgeable professional engineer following an earthquake, overtopping of the dam, or an evacuation of the inundation area as a result of this EAP, or other serious problems resulting in a notification of a dam site emergency, and the Department concurs with the results of the inspection.

IV. RESPONSIBILITIES AND DUTIES – EMERGENCY RESPONSE

A. DAM OWNER (SURVEILLANCE – DAM SITE EMERGENCY)

1. The Director of Strength, Training, and Fitness or a designated representative will provide for 24-hour on site dam surveillance and monitoring as required in Section III.C.1. and initiate pre-evacuation notification to the Huntingdon County PSAP/911.
2. When the situation meets the criteria under the warning and evacuation notification guidelines, presented in Section III.D.1., indicating a failure of the dam is possible or a significant threat condition is developing, the Director of Strength, Training, and Fitness or a designated representative will initiate warning and evacuation communication to the Huntingdon County PSAP/911.

B. HUNTINGDON COUNTY PSAP/911

1. The Huntingdon County PSAP/911 will notify:
 - a. Huntingdon County EMA
 - b. PEMA State EOC
 - c. Juniata Valley Regional Police Department
 - d. Pennsylvania State Police, Huntingdon Barracks
 - e. Petersburg Fire Company
 - f. Stone Creek Valley Fire Company
 - g. Twin Creek Emergency Medical Services (EMS)

C. HUNTINGDON COUNTY EMA

1. The Huntingdon County EMA will contact the following personnel and agencies:
 - a. National Weather Service
 - b. Barree Township EMA
 - c. West Township EMA
 - d. Logan Township EMA
 - e. Petersburg Borough EMA
 - f. Media – Warning and/or Evacuation (Activate EAS). Refer to Attachment E
 - g. Huntingdon County EOC staff, as necessary
 - h. American Red Cross, Huntingdon County and Centre Communities Chapters (when mass care or family assistance is required). Coordinate sheltering per ESF 6 of County EOP.
 - i. Huntingdon County elected officials
 - j. Juniata Valley School District (regarding closure of school bus routes)
 - k. PennDOT District 9-5
 - l. Mass Care Centers (Shaver Creek Volunteer Fire Co. Community Center and Juniata Valley Schools)
2. The Huntingdon County EMA will ascertain and report to PEMA any unmet needs and requirements.
3. The Huntingdon County EMA will initiate Damage Assessment and Recovery procedures, as the situation requires.

D. LOCAL MUNICIPAL EMAs

1. BARREE TOWNSHIP EMA
2. WEST TOWNSHIP EMA
3. LOGAN TOWNSHIP EMA
4. PETERSBURG BOROUGH EMA
 - a. Advise facilities with special needs individuals as outlined in the Emergency Operations Plan (EOP) and identified by the Hazard Vulnerability Analysis (areas impacted due to a dam failure and indicated on the Inundation Map).
 - b. Notify municipal elected officials and municipal services (water, sewer, etc).
 - c. Keep the County EMA apprised of the situation.
 - d. Coordinate the evacuation (where appropriate).
 - e. Provide damage reporting to the Huntingdon County EMC.

E. FIRE DEPARTMENTS

1. PETERSBURG BOROUGH FIRE COMPANY
2. STONE CREEK VALLEY FIRE COMPANY
 - a. Provide citizen notification and route alerting to advise residents living within their jurisdiction (See Inundation Map in *Attachment A*).
 - b. Assist in evacuation.
 - c. Assist police and EMS, as requested.
 - d. Provide communications support if feasible and requested.

F. POLICE SERVICES

1. JUNIATA VALLEY REGIONAL POLICE
2. PENNSYLVANIA STATE POLICE, HUNTINGDON BARRACKS
 - a. Dispatch radio vehicle to dam site in order to provide alternate communications link to PSAP/911.
 - b. Assist evacuation traffic flow and establish traffic control points (TCP) at pre-designated locations (See Inundation Map in *Attachment A*, and Traffic Control Points in *Attachment B*).
 - c. Prevent unauthorized entry and provide security of evacuated areas.
 - d. Provide assistance with route alerting, if requested.

G. EMERGENCY MEDICAL SERVICES (EMS)

1. Twin Creek EMS
 - a. Provide evacuation transportation assistance and coordinate with designated fire services agencies for transportation of persons with disabilities and any special needs.
 - b. Assist fire and police departments as requested.
 - c. Provide EMS support to any mass care center as requested.

H. AMERICAN RED CROSS

1. HUNTINGDON COUNTY & CENTRE COMMUNITIES CHAPTERS (if requested by Huntingdon County EMA)
 - a. Identify and activate an appropriate shelter, as necessary.
 - b. Support and maintain operations of the reception center.
 - c. Maintain communications with County EMC, local EMA and reception center.

I. PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PennDOT)

1. Provide services, signs, barricades, and guidance on roads and bridges affecting the evacuation and recovery.

V. ADMINISTRATION AND LOGISTICS

- A. The NOTICE (*Attachment F*) will be posted at the following public places affecting the evacuation and recovery:

1. Petersburg Fire Company
2. Stone Creek Valley Fire Company
3. Petersburg Town Hall
4. Port's Gulf Station/Valley General Store
5. Petersburg US Post Office
6. Juniata Valley Regional Police Department

- B. The NOTICE (*Attachment F*) must state that copies of the Emergency Action Plan for this dam are available for inspection at the following locations:

1. Huntingdon County Emergency Management Agency Office, 223 Penn Street, Courthouse, Huntingdon, PA 16652
2. The Department of University Safety of the Pennsylvania State University, Eisenhower Parking Deck, University Park, PA 16802
3. Stone Valley Recreational Office, 108 Business Services Bldg., University Park, PA 16802-1002
4. Petersburg Town Hall, 316 King Street, Petersburg, PA 16669
5. West Township Building, Shaver Creek Fire Co., 5474 Charter Oak Road, Petersburg, PA 16669
6. Barree Township Building, Manor Hill Franks Road, Huntingdon, PA 16652

- C. A new NOTICE will be sent to those locations in Paragraph "A" above whenever Plan is revised.

- D. The Director of Strength, Training, and Fitness is responsible to verify posting of the NOTICE and documenting the status in the annual inspection report.

VI. AUTHORITY AND REFERENCES

A. AUTHORITY

1. The Dam Safety and Encroachments Act (32 P.S. Sections 693.1-693.27), May 16, 1985.

2. The Pennsylvania Code - Title 25, Chapter 105 Dam Safety and Waterways Management, Section 105.63 and 105.134.
3. Emergency Management Services Code, 35 Pa C.S., Section 7101 et seq., as amended.

B. REFERENCES

1. Guidelines for Development of an Emergency Action Plan for Hazard Category 1 & 2 Dams. Prepared by the Department of Environmental Protection, Water Management, Bureau of Waterways Engineering, Division of Dam Safety; and the Pennsylvania Emergency Management Agency, January 2009.
2. Inspection, Maintenance and Operation of Dams in Pennsylvania. Prepared by the Department of Environmental Protection, Water Management, Bureau of Waterways Engineering, Division of Dam Safety; and the Pennsylvania Emergency Management Agency, February 2009.
3. Huntingdon County Emergency Operations Plan.

VII. DEFINITIONS

- A. **ABUTMENT** – The part of the valley’s hillside against which the dam abuts. Right and left abutments are those on respective sides of the dam, as an observer looks downstream.
- B. **AFFECTED COUNTIES/MUNICIPALITIES** – Those jurisdictions within Pennsylvania or adjoining state that, according to the inundation map, may experience flooding as a result of a failure of the dam.
- C. **BOIL** – A disturbance in the surface layer of soil caused by water escaping under pressure from behind a water-retaining structure such as a dam or a levee. The boil may be accompanied by deposition of soil particles (usually sand or silt) in the form of a ring (miniature volcano) around the area where the water escapes.
- D. **BREACH** – An opening or a breakthrough of a dam sometimes caused by rapid erosion of a section of earth embankment by water.
- E. **CONDUIT** – A pipe used to convey water through or around or under a dam.
- F. **CONTROL TOWER** – A structure in the dam or reservoir used to control withdraw of water from the reservoir thru pipes or culverts.
- G. **CREST OF DAM** – The crown of an overflow section of the dam. In the United States, the term "crest of dam" is often used when "top of dam" is intended. To avoid

confusion, the terms **crest of spillway** and **top of dam** should be used for referring to the overflow section and dam proper, respectively.

- H. **CULVERT** – (a) A drain or waterway structure built transversely under a road, railway, or embankment. A culvert usually comprises a pipe or a covered channel of box section. (b) A gallery or waterway constructed through any type of dam, which is normally dry but is used occasionally for discharging water; hence, the terms scour culvert, drawoff culvert and spillway culvert.
- I. **DAM** – A barrier built across a watercourse for impounding or diverting the flow of water.
- J. **DAM FAILURE** – The uncontrolled release of a dam’s impounded water. It is recognized that there are degrees of failure. Any malfunction or abnormality, outside the design assumptions and parameters, which adversely affect a dam’s primary function of impounding water, is properly considered a failure. Minor malfunctions or abnormalities can result in a sudden failure of a dam.
- K. **EARTH DAM (EARTHFILL DAM)** – An embankment dam in which more than 50% of the total volume is formed of compacted fine-grained earth.
- L. **EMBANKMENT** – Fill material, usually earth or rock, placed with sloping sides.
- M. **EMERGENCY** – A condition of serious nature which develops unexpectedly and endangers the structural integrity of a dam or endangers downstream property and human life. An emergency requires immediate action.
- N. **EMERGENCY ACTION PLAN (EAP)** – A formal plan of procedures designed to minimize consequences to life and property in the event of an emergency at a dam.
- O. **FACE** – With reference to a structure, the external surface that limits the structure, e.g., the face of a wall or dam.
- P. **FAILURE** – An incident resulting in the uncontrolled release of water from an operating dam. See “Dam Failure.”
- Q. **FOUNDATION OF DAM** – The natural material on which the dam structure is placed.
- R. **GROIN** – That area along the contact (or intersection) of the face of a dam with the abutment.
- S. **HAZARD** – A situation which creates the potential for adverse consequences such as loss of life, property damage, and adverse social and environmental impacts. Impacts may be for a defined area downstream of a dam from floodwaters released through spillways and outlet works of the dam or waters released by partial or complete failure

of the dam. They may also be for an area upstream of the dam from effects of backwater flooding or effects of landslides around the reservoir perimeter.

- T. **INUNDATION AREA** – The downstream area that would be flooded or otherwise affected by the failure of a dam or large flows. This area can be subject to a fast moving flood wave, 20 to 50 MPH is common, with a height of 1 foot to tens of feet.
- U. **INUNDATION MAP** – A map delineating the area that would probably be flooded in the event of a dam failure. This map must be prepared by a registered professional engineer.
- V. **NOTIFICATION** – To promptly inform appropriate individuals or emergency agency about an emergency condition so they can initiate appropriate actions.
- W. **NORMAL WATER LEVEL (NORMAL WATER POOL)** – For reservoir with a fixed overflow spillway crest, it is the lowest level of that crest.
- X. **OPERATOR** – The person or position in a company or organization who is responsible for a dam’s operation and surveillance.
- Y. **OUTLET** – A constructed opening through which water can be safely discharged for a particular purpose from a reservoir.
- Z. **OWNER** – Any person, authority or agency that manages a dam or reservoir.
- AA. **SEEPAGE** – The movement of water that might occur through the dam, its foundation or its abutments. Small amounts of clear water seepage are normal. Increase in the amount of water flow or change in color is a concern for a dam’s safety.
- BB. **SLIDE** – The movement of a mass of earth and/or down a slope. In embankments and abutments, this involves the separation of a portion of the slope from the surrounding materials.
- CC. **SPECIAL NEEDS FACILITY** – A building or establishment relating to people who have specific needs, such as children or those associated with disability.
- DD. **SPILLWAY** – A structure over or through which flows are discharged. If the flow is controlled by gates, it is considered a controlled spillway; if the elevation of the spillway crest is the only control, it is considered an uncontrolled spillway.
- EE. **SPILLWAY CHANNEL** – A channel conveying water from the spillway crest to the river downstream.
- FF. **TOE OF DAM** – The junction of the downstream face of a dam with the ground surface. Also referred to as downstream toe. For an embankment dam, the junction of the upstream face with the ground surface is called the upstream toe.

- GG. **TOP OF DAM** – The elevation of the uppermost surface of a dam, usually a road or walkway, excluding any parapet wall, railings, etc.
- HH. **TRAFFIC CONTROL POINT (TCP)** – Manned posts established at critical road junctions for the purpose of controlling or limiting traffic. TCPs are used to control evacuation movement and also limit entry into the inundation area when an emergency situation requires it.

VIII. EXERCISE AND TRAINING

The Director of Strength, Training, and Fitness will advise and cooperate with the Huntingdon County EMA of any exercises scheduled, and coordinate with the Huntingdon County EMA to exercise all or portions of this EAP as part of the county's all-hazard exercise program schedule.

IX. PLAN MAINTENANCE

- A. This EAP will be reviewed every five years by the owner or the owner's engineer. During the five-year review:
1. The owner or owner's engineer will conduct an on-site review of the flood (inundation) area for any increase in downstream development and revise the Inundation Map, if needed.
 2. The owner's engineer will review and revise surveillance conditions as needed.
 3. The owner will coordinate with Huntingdon County EMA if population increase or development within the inundation area could affect the emergency response requirements. If so, a new or revised plan should be developed.
 4. The owner will obtain concurrence from the affected county PSAP/911 Center and EMC.
 5. The owner will submit 6 copies at a minimum of the revised plan to DEP for review and approval.
- B. A copy of the approved EAP will be distributed by the dam owner to those emergency response agencies listed in Section IV. DEP, Division of Dam Safety will distribute a copy of the approved EAP to PEMA's Area Office, the affected county Emergency Management Agency(s) and PSAP/911 Center(s) the National Weather Service, and the DEP's Regional Office. Within 60 days, the dam owner will submit a letter certifying distribution of the approved EAP and posting of NOTICE(s) to the DEP, Division of Dam Safety.

ATTACHMENTS:

ATTACHMENT A – INUNDATION MAP
ATTACHMENT B – TRAFFIC CONTROL POINTS
ATTACHMENT C – LOCATION MAP
ATTACHMENT D – TELEPHONE ROSTER
ATTACHMENT E – MEDIA ANNOUNCEMENT
ATTACHMENT F – NOTICE

ATTACHMENT A
INUNDATION MAP
(3 Sheets)

ATTACHMENT B

TRAFFIC CONTROL POINTS

Barree Township

TCP 1	Intersection T-536 South (Masseyburg Road) and SR1029 (Charter Oak Road) at Masseyburg	Pennsylvania State Police
TCP 2	Intersection of Shavers Creek Log Road and T-538 (Hammond Road)	Pennsylvania State Police
TCP 3	Intersection of SR1027 West and T-496 (Manor Hill Road)	Pennsylvania State Police
TCP 4	At SR section marker 330/340 on SR305	Pennsylvania State Police
TCP 5	Intersection of T-524 (Hutchinson Road) and SR1029 (Charter Oak Road)	Pennsylvania State Police
TCP 23	Intersection of access road to Civil Engineering Camp and private access road to Dam	Pennsylvania State Police

West Township

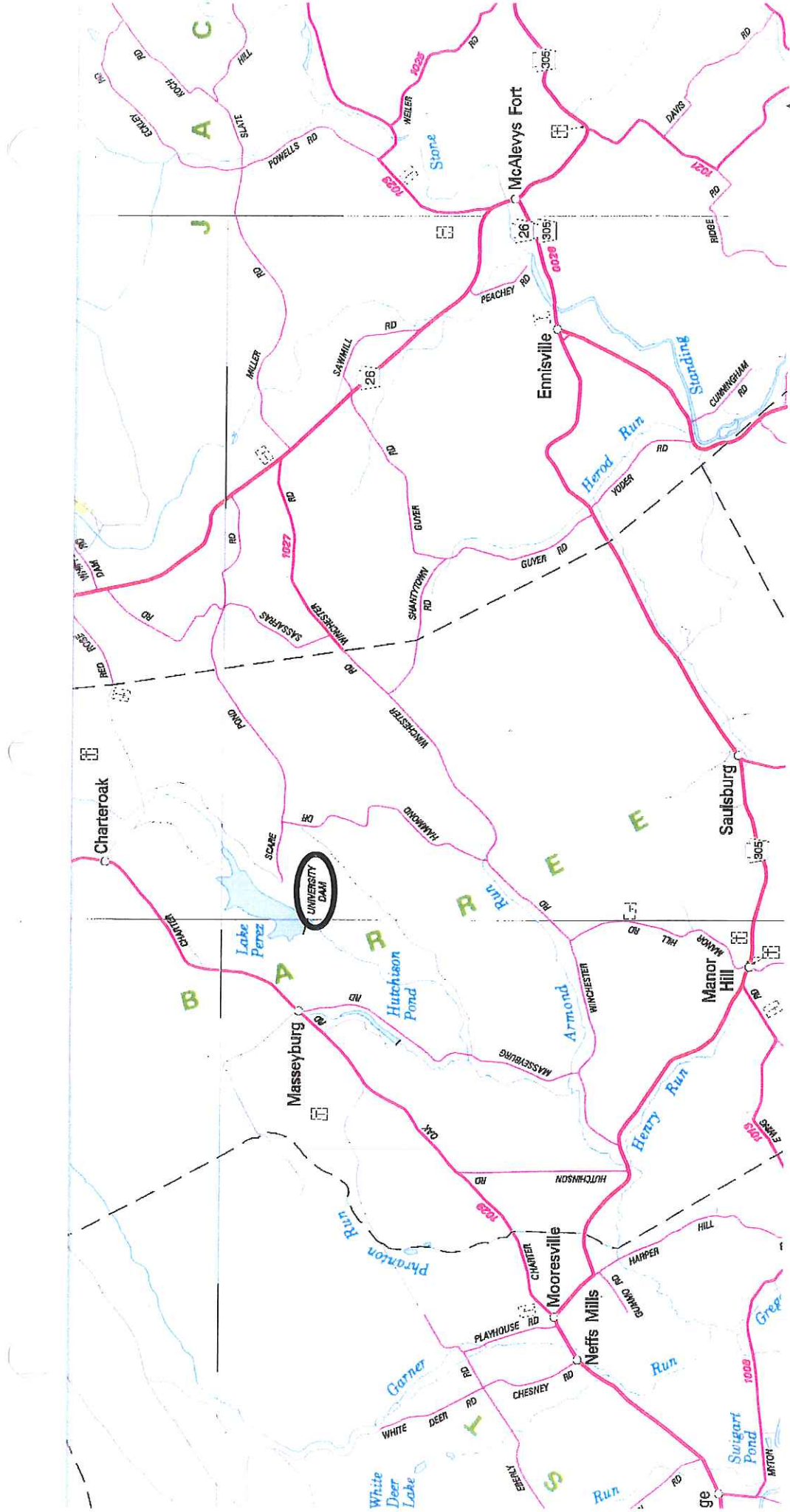
TCP 6	Intersection of SR305 (Shavers Creek Road) and T-524 (Gumbo Road). Barricade is on 305. Prevents access to T-524, SR305, and T-518	Pennsylvania State Police
TCP 7	Intersection of T-518 (Harpers Hill Road) and SR1008 (Myton Road)	Pennsylvania State Police
TCP 8	Intersection of T-504 and private lane to northwest	Pennsylvania State Police
TCP 9	Intersection of T-511 (McMahon Road) and SR305 (Shavers Creek Road) at Village of Cottage. Prevents access to SR1008	Pennsylvania State Police
TCP 10	Intersection of T-511 (McMahon Road) and unnamed gated road to the southwest	Pennsylvania State Police
TCP 11	Intersection of T-521 (Eberle Road) and private lane to the northeast	Pennsylvania State Police
TCP 12	Section marker 220/230 on SR305 (Shavers Creek Road)	Pennsylvania State Police
TCP 13	Section marker 180/190 on SR305 (Shavers Creek Road)	Pennsylvania State Police
TCP 14	Intersection of T-504 and SR4009. Barricade on SR4009	Pennsylvania State Police

Logan Township

TCP 15	Intersection of SR1006 (Chilcote Hollow Road) and SR305. Barricade on Chilcote Hollow Road	Pennsylvania State Police
TCP 16	Section marker 130/140 on SR305, west of Ribot	Pennsylvania State Police
TCP 17	Intersection of T-507 (Nelson Road) and SR4009. Barricade on SR4009	Pennsylvania State Police
TCP 18	Intersection of SR4011 (Diamond Valley Road) and Sneath Road	Pennsylvania State Police
TCP 19	East of Cedar Lane on SR305	Pennsylvania State Police
TCP 20	West of intersection of Evergreen Lane and SR305, west of Petersburg	Pennsylvania State Police
TCP 22	Section marker 40/30 on SR4002 (Brookside Road)	Pennsylvania State Police

Petersburg Borough

TCP 21	Intersection of Hill Street (Petersburg Pike) and SR4007, south of Petersburg. Barricade on Petersburg Pike	Pennsylvania State Police
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DIRECTIONS:

About 6.6 miles north of Petersburg on Shavers Creek Road/PA 305, take a slight left on Charter Oak Road/Petersburg Road/PA 1029. In about 2.8 miles, turn right on Township Road 537. In about 0.15 miles, turn right on dirt road. Follow dirt road about 0.25 miles to dam.

ATTACHMENT C – LOCATION MAP

ATTACHMENT D TELEPHONE ROSTER

Agency	Person	EMERGENCY	NON-EMERGENCY
Dam Owner	Chip Harrison	(814) 280-2515	(814) 863-1181
Dam Operator	Charlene Detwiler	(814) 883-3154	(814) 684-3889
Huntingdon County Communications Center		911	(800) 373-0209
DEP Southcentral Regional Office		(717) 705-4741	(717) 705-4700
DEP Division of Dam Safety		(717) 787-4343 (800) 541-2050	(717) 787-8568
Pennsylvania Emergency Management Agency		(800) 424-7362	(800) 424-7362
The Pennsylvania State University, Department of University Safety	Maurine Claver, Director of Environmental Health & Safety	(814) 865-6391	(814) 238-8174
The Pennsylvania State University, Department of University Police	Stephen Shelow, Director of Police Services	(814) 865-1864	(814) 863-1111
Shaver Creek Dam Maintenance	Timothy McCartney	(814) 863-0762	(814) 863-0762
The Pennsylvania State University, 139 White Building, University Park, PA	Mark Bodenschatz, Associate Athletic Director for Facilities and Operations		(814) 863-3489
Huntingdon County Emergency Management Agency, Huntingdon, PA	Adam Miller, Director	(814) 643-3960 (800) 373-0209	(814) 643-6613
Barree Township	Michael Croyle, Emergency Management Director	(814) 234-7252	(814) 667-2098 (Home) (814) 777-3266 (Cell)
	Troy Franks, Supervisor		(814) 667-3581
West Township	Danny E. Hawn, Emergency Management		(814) 669-4363
	Steven R. Miller, Supervisor		(814) 643-1054
Logan Township	Peggy Harman		(814) 669-9173
Alexandria Borough	Barbara Ryzner Emergency Management Director		(814) 669-9478
Petersburg Borough	David Dick, Emergency Management Coordinator	(814) 669-4424	(814) 669-4164

TELEPHONE ROSTER (Cont'd)

Agency	Person	EMERGENCY	NON-EMERGENCY
Pennsylvania Emergency Management Agency	Central Emergency Office	(800) 424-7362	(800) 272-7362 (717) 651-2001
	Harrisburg Office	(800) 424-7362 (717) 651-2001 to (717) 651-2005	(800) 424-7362 (717) 651-2001 to (717) 651-2005
Shaver Creek, Petersburg, and Stone Creek Valley Fire Companies Dispatch Center		911	
Juniata Valley Regional Police Department	Chief David Yocum	(814) 669-9252	(814) 669-9252
The Pennsylvania State Police, Huntingdon Barracks		(814) 627-3161	(814) 627-3161
The Pennsylvania Department of Transportation, District 9-5 Maintenance Office	Warren Rourke, County Maint. Manager	(814) 643-0150	(814) 643-0150
Twin Creek Ambulance Service	Jim Singer, Director	911	
American Red Cross, Huntingdon County Chapter	Jane Gable, Director	(814) 643-2610	(814) 643-2610
American Red Cross, Centre Communities Chapter	Virginia Dimeling Brown, Executive Director	(814) 237-3162	(814) 237-3162
Juniata Valley School District		(814) 669-4401	(814) 669-4401
Mass Care Center, Shaver Creek Volunteer Fire Co. Community Center		911	(814) 667-3827
Mass Care Center, Juniata Valley Schools		(814) 669-4401	(814) 669-4401
Owner's Engineers - Schnabel Engineering, LLC	Greg Paxson, P.E.	(610) 656-4425	(610) 696-6066

ATTACHMENT E

MEDIA ANNOUNCEMENT

WARNING MESSAGE:

The Huntingdon County Emergency Management Agency advises that due to conditions at the Shaver Creek Dam in Barree Township, the public should avoid the area downstream of the dam toward the confluence with Juniata River at Petersburg Borough. Stay tuned for further information.

*****REPEAT PERIODICALLY*****

EVACUATION MESSAGE:

The Huntingdon County Emergency Management Agency is advising all residents living downstream of the Shaver Creek Dam in Barree Township to evacuate the area immediately. Evacuate the area downstream of the dam toward the confluence with Juniata River at Petersburg Borough. If you require shelter during this emergency, you should report to one of the reception/mass care centers: Shaver Creek Volunteer Fire Company Community Center near Neffs Mills or Juniata Valley Schools on S.R. 305 southwest of Petersburg.

*****REPEAT PERIODICALLY*****

INCIDENT RESOLVED, SAFE TO RETURN:

The Huntingdon County Emergency Management Agency is advising residents of the area downstream of the Shaver Creek Dam in Barree Township that the problem at the dam has been resolved and that residents may return to their homes.

*****REPEAT PERIODICALLY*****

NOTE: The above messages should be modified as necessary to fit the situation.

ATTACHMENT F

NOTICE

SHAVER CREEK DAM HAS BEEN CLASSIFIED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AS A HIGH HAZARD DAM; THIS IS A DAM SO LOCATED AS TO ENDANGER POPULATED AREAS DOWNSTREAM BY ITS FAILURE.

AN EMERGENCY ACTION PLAN HAS BEEN DEVELOPED FOR
SHAVER CREEK DAM

A COPY OF THIS PLAN, INCLUDING AN INUNDATION MAP NOTING AREAS IN BARREE, WEST, AND LOGAN TOWNSHIPS AND PETERSBURG BOROUGH SUBJECT TO FLOODING IN THE EVENT OF FAILURE, IS AVAILABLE FOR PUBLIC INSPECTION AT THE FOLLOWING LOCATIONS:

THE PENNSYLVANIA STATE UNIVERSITY	108 BUSINESS SERVICES BUILDING, UNIVERSITY PARK, PA 16802
HUNTINGDON COUNTY EMA	223 PENN STREET, COURTHOUSE HUNTINGDON, PA 16652
THE DEPARTMENT OF UNIVERSITY SAFETY OF THE PENNSYLVANIA STATE UNIVERSITY	EISENHOWER PARKING DECK UNIVERSITY PARK, PA 16802
STONE VALLEY RECREATION OFFICE	108 BUSINESS SERVICES BLDG., UNIVERSITY PARK, PA 16802-1002
PETERSBURG TOWN HALL	316 KING STREET PETERSBURG, PA 16669
WEST TOWNSHIP BLDG SHAVER CREEK FIRE CO	5474 CHARTER OAK RD PETERSBURG, PA 16669
BARREE TOWNSHIP BLDG	MANOR HILL FRANKS RD HUNTINGDON, PA 16652