

EMERGENCY ACTION PLAN
SURVEILLANCE, WARNING, AND EVACUATION PROCEDURES

LAKE CATALPA DAM

DEP NO. D40-057

DALLAS TOWNSHIP
LUZERNE COUNTY

LATITUDE 41°23'29"

LONGITUDE 75°57'55"

OWNED BY

GERALDINE T. NESBITT
609 WEST 42ND STREET
DALLAS, PA 18612
(570)639-5492 (HOME)

OPERATED BY

PAUL ADAMCHICK, DESIGNATED OPERATOR
50 CARVERTON ROAD
TRUCKSVILLE, PA 18708
(570)760-0978 (CELL/24-HOUR)
(570)696-2174 (HOME)

JUNE 26, 2008

Dam Number: 40-057

Name: LAKE CATALPA

Permittee(s): GERALDINE NESBITT

County: LUZERNE

Municipality: DALLAS BOROUGH

Quad Name: CENTER MORELAND

EAP Status: Yes

Status: E

Posting Required:

Class: B-1

Posting Done:

InundationMap:

Approved EAP: 06/28/1983

PEMA Approval: 07/29/1983

DER Approval:

Breach Analysis Approved:

Population at Risk:

Population: 8 Business: Schools:

DaycareCenters: Hospitals: NursingAssistedLiving:

Letter Sent to Permittee:	01/26/1990	Reply due:	
Letter Sent to Permittee:	12/08/1993	Reply due:	06/01/1994
Letter Sent to Permittee:	02/28/1996	Reply due:	04/01/1997
Letter Sent to Permittee:	02/13/1998	Reply due:	
Letter Sent to Permittee:	10/16/2001	Reply due:	04/01/2002
Letter Sent to Permittee:	02/09/2005	Reply due:	07/01/2005

Draft EAP Received: 05/02/2006

Review of Draft EAP

Not Acceptable

Acceptable

Acceptable with Revisions

Returned Unacceptable:

Revised Draft Due:

Breach Analysis Received: 02/14/2005

Breach Analysis Reviewed: 02/17/2005

Breach Analysis Returned:

Breach Analysis Approved: 02/18/2005

Forward To PEMA: 05/08/2006

Receive PEMA Comments: 06/02/2006

Return To Permittee To Finalize: 06/07/2006

Date of Final Plan: 06/26/2008

Final Plan Received: 07/29/2008

Forward Plan to PEMA: 08/04/2008

PEMA Approval of Final EAP: 08/07/2008

DER Approval of EAP: 08/11/2008

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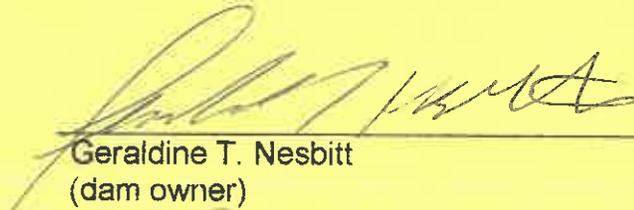
JUNE 26, 2008

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PROMULGATION AND CONCURRENCE

We, the undersigned, on date indicated, have reviewed the support activity requested in the Emergency Action Plan for the possible failure of **Lake Catalpa Dam** in Dallas Township, Luzerne County, Pennsylvania. Our support actions will be executed in accordance with existing Standard Operating Procedures (SOP) and municipal or county emergency operations plans.



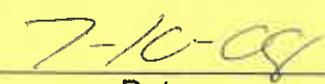
Geraldine T. Nesbitt
(dam owner)



Date



Paul Adamchick
(designated dam operator)



Date

Stephen Bekanich (Coordinator)
Luzerne County Emergency Management Agency (EMA)

Date

Eugene Dziak (Coordinator)
Wyoming County Emergency Management Agency (EMA)

Date

PROMULGATION AND CONCURRENCE

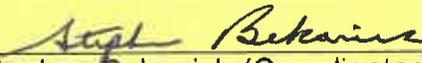
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Geraldine T. Nesbitt
(dam owner)

Date

Paul Adamchick
(designated dam operator)

Date



Stephen Bekanich (Coordinator)
Luzerne County Emergency Management Agency (EMA)

7-2-08
Date

Eugene Dziak (Coordinator)
Wyoming County Emergency Management Agency (EMA)

Date

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We, the undersigned, on date indicated, have reviewed the support activity requested in the Emergency Action Plan for the possible failure of **Lake Catalpa Dam** in Dallas Township, Luzerne County, Pennsylvania. Our support actions will be executed in accordance with existing Standard Operating Procedures (SOP) and municipal or county emergency operations plans.

Geraldine T. Nesbitt
(dam owner)

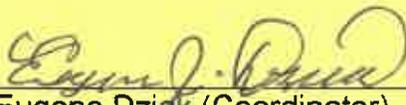
Date

Paul Adamchick
(designated dam operator)

Date

Stephen Bekanich (Coordinator)
Luzerne County Emergency Management Agency (EMA)

Date

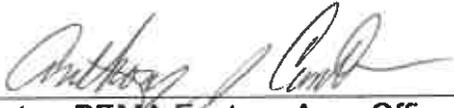


Eugene Dziak (Coordinator)
Wyoming County Emergency Management Agency (EMA)

07-03-08
Date

PROMULGATION AND CONCURRENCE (contd.)

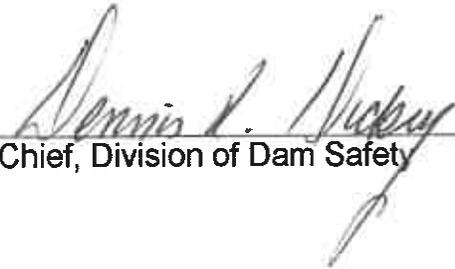
The Pennsylvania Emergency Management Agency hereby finds that the Emergency Action Plan for **Lake Catalpa Dam** in Luzerne County contains the key elements for an effective warning and evacuation plan.



Director, PEMA Eastern Area Office

Aug 7 2008
Date

The Department of Environmental Protection / Bureau of Waterways Engineering / Division of Dam Safety hereby approves the Emergency Action Plan for **Lake Catalpa Dam (D40-057)**.



Chief, Division of Dam Safety

8/11/08
Date

EMERGENCY ACTION PLAN: LAKE CATALPA DAM (D40-057)

I. PURPOSE AND SCOPE

The purpose behind the development of an Emergency Action Plan (EAP) for a dam classified by the Pennsylvania Department of Environmental Protection (DEP) as a category-1 or -2 dam in terms of hazard potential is threefold:

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

II. SITUATION

- A. Lake Catalpa Dam is an earthen dam with upstream and downstream faces of masonry and concrete. Built to create a 115-acre lake for recreational purposes, the dam is approximately 160 feet long, has a maximum height of 23 feet from the downstream toe, and has a crest width ranging from 27.5 to 30.0 feet. A paved private access road to the Nesbitt estate crosses the dam. The volume of storage at the top-of-dam elevation is 1,031 acre-feet and at the normal pool elevation is 529 acre-feet.
- B. Lake Catalpa Dam is located across Falls Creek, a tributary of Leonard Creek, in the northeastern corner of Dallas Township, Luzerne County, Pennsylvania. Sited along (State Route) SR 1041, it is approximately 3.5 miles north of Dallas (PA) and one mile east of SR 0309. [Refer to Location Map (Attachment C).]
- C. A potential inundation area resulting from a sudden failure of Lake Catalpa Dam is a 7,500-foot reach along Falls Creek, bordered on the south by SR 1041 in Dallas Township, Luzerne County and by SR 2018 and (township road) T318 in Monroe Township, Wyoming County. The northern boundary in both counties is rural wooded or open land. An additional potential inundation area lies at the junction of Falls Creek and Leonard Creek in Wyoming County; it is bounded on the west by SR 0309 and on the east by rural open land. Both potential inundation areas are shown as the shaded area on the attached inundation map. [Refer to Inundation Map (Attachment A).]

- D. Lying within the potential inundation area within Monroe Township (Wyoming County) are two residences and portions of SR 0309, T318 (both Falls Hill Road and Herdman Road), and SR 2018. Within the potential inundation area in Dallas Township (Luzerne County), a portion of SR 1041 and the main (but not the only) private access road to the Nesbitt estate would be affected by the failure of Lake Catalpa Dam. [Refer to Inundation Map (Attachment A).]

III. CONCEPT OF OPERATIONS

A. Surveillance—Dam Operator

1. Normal conditions

The dam operator or designated representative will conduct at a minimum of once every three (3) months an on-site visual inspection of the dam, spillway, control system, and toe area below the dam. Any abnormal or questionable condition(s) will be immediately brought to the attention of the owner's engineer and the (DEP) Division of Dam Safety.

2. Unusual-event conditions

Possible failure of the dam is most likely to occur during severe thunderstorms, heavy rains with local flood warnings, tropical storms or hurricanes, or heavy rains with frozen ground and/or snow cover. Under the following circumstances, the dam operator or designated representative will commence 24-hour continuous surveillance of conditions at the dam site:

- a. The water level in the impoundment area reaches the threshold level of 3.0 (three) feet below the elevation of the private road across the dam providing access to the Nesbitt estate, or
- b. The National Weather Service issues a flash-flood watch or warning and conditions warrant monitoring, or
- c. Any condition listed in section III.C.1 is observed during routine dam maintenance or inspection, or
- d. An earthquake occurs in the general region of the dam.

B. Termination of Surveillance

The dam operator or designated representative may terminate 24-hour surveillance of conditions at the dam site under these circumstances:

1. The National Weather Service has ended a flash-flood watch or warning, and
2. Heavy rains have ended; the water level in the lake has dropped 4.0 (four) feet below the elevation of the private road across the dam leading to the Nesbitt estate and is receding.
3. After an earthquake, overtopping of the dam, 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, a knowledgeable professional engineer has made a personal inspection of the dam site and found that conditions warrant termination of 24-hour surveillance.

C. Warning Notification

1. The dam operator or designated representative is responsible for determining the threat potential of the dam and, in the case of a dam emergency, initiating the warning notification to Luzerne County 911 and DEP's Northeast Regional Office (570-826-2511). These conditions constitute such an emergency:
 - a. The water level in the impoundment area has reached the threshold level of 1.5 (1½) feet below the elevation of the private road across the dam.
 - b. The depth of flow over the ogee spillway has reached a depth of 4.5 (4½) feet. [Marks at 1.0' (one-foot) intervals should be painted on the concrete face of the dam above the crest of the ogee spillway.]
 - c. Imminent failure of this dam may be indicated by observance of one or more of the following conditions at the dam site:
 - (1) The lake/water level is at or near the elevation of the private road across the dam accessing the Nesbitt estate, and water is flowing or is about to flow over the access road.
 - (2) The primary ogee spillway is clogged with debris or ice, which is resulting in a rapid rise in the lake level.
 - (3) There is any structural movement or failure of the concrete spillway or the spillway sidewalls.
 - (4) There is subsidence in the private access road across the dam and/or there are structural cracks in the upstream or downstream face of the dam or the abutting slopes.

- (5) There is any new discharge of water through the downstream face or abutting slopes of the dam, adjacent to any conduit outlets, or under the dam (appearing as a boil along the downstream toe).
Note: If such a discharge occurs and the water is cloudy or muddy in color, then a very serious problem exists.

2. Warning notification will be relayed from Luzerne County 911 to emergency responders and designated government officials and agencies.
3. Emergency management officials will take the needed actions as explained in this EAP, in accordance with their Standard Operating Procedures (SOP) and existing municipal or county emergency operations plans.

D. Evacuation

Evacuation or pre-evacuation warning of the public may commence upon notification by the dam operator or designated representative of a potential or imminent failure of the dam. Emergency responders will initiate action in accordance with the plan outline, any existing internal organizational Standard Operating Procedures (SOP), and existing municipal or county operations plans.

IV. RESPONSIBILITIES AND DUTIES—EMERGENCY RESPONSE

A. Dam Operator (Surveillance—Dam-Site Emergency)

1. The dam operator or designated representative will arrange for 24-hour on-site dam surveillance and monitoring.
2. When the situation meets the criteria for issuing warning notification (section III.C.1), indicating that a failure of the dam is possible or that a significant threatening condition is developing, the dam operator or designated representative will so notify Luzerne County 911 and the DEP Northeast Regional Office (570-826-2511).

B. Luzerne County 911

Luzerne County 911 will notify the following (telephone numbers and points of contact listed in Attachment D):

1. Wyoming County Communications Center (911 / 836-6161)
2. Luzerne County Emergency Management Agency (EMA)
3. Kunkle Fire Company (includes ambulance/rescue services)
4. Dallas Township Police Department

C. Luzerne County Emergency Management Agency (EMA)

1. The Luzerne County Emergency Management Agency will contact the following personnel and agencies (as listed in Attachment D):
 - a. Dallas Township emergency management coordinator (EMC)
 - b. Pennsylvania Emergency Management Agency (PEMA)
 - c. Luzerne County Emergency Operations Center (EOC) staff (if necessary)
 - d. PennDOT (Luzerne County)
 - e. media (to issue an advisory and/or warning and to activate the Emergency Alert System) (Refer to Attachment E.)
 - f. American Red Cross (Wyoming Valley) chapter (if personal/family assistance is needed)
 - g. Luzerne County (elected) officials
2. The Luzerne County EMA will ascertain and report to PEMA any unmet needs requirements.
3. The Luzerne County EMA will initiate damage assessment and recovery procedures as needed.

D. Wyoming County Communications Center (911)

The Wyoming County Communications Center will notify the following (telephone numbers and points of contact listed in Attachment D):

1. Wyoming County Emergency Management Agency (EMA)
2. Pennsylvania State Police (Tunkhannock barracks)

E. Wyoming County Emergency Management Agency (EMA)

1. The Wyoming County Emergency Management Agency will contact the following personnel and agencies (as listed in Attachment D):

- a. Monroe Township emergency management coordinator (EMC)
- b. Wyoming County Emergency Operations Center (EOC) staff (if necessary)
- c. PennDOT (Wyoming County)
- d. Tunkhannock Area School District (if bus routes may be affected)
- e. American Red Cross (Wyoming County) chapter (if personal/family assistance is needed)
- f. Wyoming County (elected) officials

2. The Wyoming County EMA will ascertain and report to PEMA any unmet needs requirements.

3. The Wyoming County EMA will initiate damage assessment and recovery procedures as needed.

F. Dallas Township (Luzerne County) and Monroe Township (Wyoming County) emergency management coordinators (EMCs)

The emergency management coordinators for Dallas Township and Monroe Township will do the following:

1. Notify township/municipal elected officials.
2. Keep the Luzerne County and Wyoming County EMAs apprised of the situation.
3. Coordinate any required evacuation.
4. Perform initial damage assessment.

G. Kunkle Fire Company

Personnel from this volunteer fire company will do the following:

1. Notify affected residents within their jurisdiction and provide route information to persons in the designated areas. [Refer to Inundation Map (Attachment A).]
2. Assist police in establishing and maintaining traffic-control points (TCPs) or as otherwise requested. [Refer to Traffic-Control Points (Attachment B).]
3. Assist emergency medical (ambulance/rescue) services as requested.
4. Assist in any evacuation.
5. Provide support with communications if feasible and requested.

H. Dallas Township Police Department (Luzerne County) and Pennsylvania State Police (Tunkhannock barracks)

Personnel from the Dallas Township Police Department and the Pennsylvania State Police (Tunkhannock barracks) are to do the following:

1. Dispatch a radio vehicle to the dam site in order to provide an alternate communications system. [DTPD]
2. Assist any evacuation traffic flow; establish and maintain traffic-control points (TCPs) at predesignated locations. [Refer to attachments A (Inundation Map) and B (Traffic-Control Points).]
3. Prevent unauthorized entry into emergency areas.
4. Provide assistance with route alerting if requested.

I. Kunkle Fire Company (ambulance/rescue services)

Personnel from this volunteer fire company are to do as follows:

1. Assist police as needed.
2. Provide assistance with evacuation transportation, including the transportation of mobility-impaired persons and/or any others with special needs.
3. Provide EMS support to any reception/care center.

J. American Red Cross (Wyoming Valley and Wyoming County chapters)

Red Cross personnel from these two counties will cooperate in the following assignments:

1. Alert persons responsible for setting up, operating, and maintaining a reception/care center (if needed) at a facility to be designated at the time of the event.
2. Support and maintain the operations of any reception/care center (if needed) as requested by EMA officials.

K. PennDOT (Luzerne County and Wyoming County)

PennDOT personnel from these two counties will provide (in their respective counties) services, signs, barricades, and guidance on state-owned roads and bridges involved in the evacuation and recovery.

V. ADMINISTRATION AND LOGISTICS

- A. Notices (Attachment F) will be posted at the following sites:
1. Dallas Township Municipal Building
 2. Monroe Township Community Building (old/former Beaumont School)
 3. Luzerne County Tax-Claim Bureau (in the Luzerne County Courthouse)
 4. Wyoming County Tax-Claim Office (in the Wyoming County Courthouse)
- B. The notice (Attachment F) will state that a copy of the Emergency Action Plan (EAP) for this dam is available for inspection at each of the following locations:
1. Luzerne County Emergency Management Agency at 185 Water Street, Wilkes-Barre, PA 18702
 2. Dallas Township Municipal Building at 601 Tunkhannock Highway (SR 0309), Dallas, PA 18612
 3. Wyoming County Emergency Management Agency at 455 SR 6 E, Suite 1, Tunkhannock, PA 18657
 4. Residence of the Monroe Township (Wyoming County) secretary (Arlene Traver) at 2605 SR 29 S (Monroe Township), Tunkhannock, PA 18657 (by appointment)
 5. Residence of dam owner Geraldine T. Nesbitt (RR 1 Box 315, Dallas, PA 18612) on Lake Catalpa Road in Dallas Township (by appointment)
- C. Whenever the EAP is revised, new notices will be sent to those agencies/sites listed in section V.A. (above).

VI. AUTHORITY AND REFERENCES

A. Authority

1. The Dam Safety and Encroachments Act (32 P.S., sections 693.1 to 693.27): May 16, 1985.
2. The Pennsylvania Code—Title 25, Chapter 105 (Dam Safety and Waterways Management), sections 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 Developing an Emergency Action Plan for Hazard-Potential Category-1 and -2 Dams. PA Department of Environmental Protection (DEP) / Bureau of Waterways Engineering / Division of Dam Safety and the PA Emergency Management Agency (PEMA): July 2005 (updated June 2007).
2. Inspection, Maintenance and Operation of Dams in Pennsylvania. PA Department of Environmental Protection / Bureau of Waterways Engineering / Division of Dam Safety: August 2004.
3. Luzerne County Emergency Operations Plan.
4. Wyoming County Emergency Operations Plan.

VII. DEFINITIONS

- A. **Abutment**--the part of the valley side against which a dam is constructed
Right and left abutments are those on the respective sides of the dam as an observer looks downstream.
- B. **Affected counties/municipalities**--those areas which, according to the inundation map, may experience flooding as a result of the failure of a 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 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 is escaping.
- D. **Breach**--an opening or a rupture of a dam, sometimes caused by rapid erosion of a section of earthen embankment by water
- E. **Conduit**--a closed channel (pipe) to convey water through, around, or under a dam
- F. **Control tower**--a structure in a dam or reservoir used to control withdrawal of water through pipes or culverts
- G. **Crest of dam**--the crown of an overflow section of a dam
In the U.S. the term "crest of dam" is often used when "top of dam" is intended. The terms "crest of spillway" and "top of dam" should be used for referring, respectively, to the overflow section and dam proper.
- H. **Culvert**--(1) a drain or waterway structure built transversely under a road, embankment, etc.; (2) a gallery or waterway, constructed through any type of dam, that is normally dry but is used occasionally for discharging water (e.g., scour culvert, drawoff culvert, spillway culvert)
A culvert usually comprises a pipe or a covered channel of box sections.
- I. **Dam**--a barrier constructed across a watercourse for the purpose of storage, control, or diversion of water
- J. **Dam failure**--the uncontrolled release of impounded water from a dam
There are greater and lesser degrees of failure; any malfunction or abnormality outside the design assumptions and parameters that adversely affects 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. **Earthen 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 serious condition that develops unexpectedly, endangers the structural integrity of a dam, endangers human life and property downstream, and thus 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 impounded water from a dam
- 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 the dam with the abutment
- S. **Hazard**--a situation that creates the potential for adverse consequences (such as loss of life, property damage, and adverse social/environmental impacts) Impacts may be for a defined area downstream from floodwater released through spillways and outlet works of a dam or water released by partial or complete failure of a dam. Impacts may also be felt in upstream areas (from effects of backwater flooding) and/or around the reservoir perimeter (from effects of landslides).
- T. **Inundation area**--the downstream area that would be inundated or otherwise affected by large flows or by the failure of a dam
An inundation area can be subject to a fast-moving flood wave with a height ranging from one foot to tens of feet; a velocity of 20 to 50 mph is common.
- U. **Inundation map**--a map showing areas that would probably be affected by flood conditions and/or by an uncontrolled release of water due to the failure of a dam
This map must be prepared by a registered professional engineer.
- V. **Normal water level (normal water pool)**--(for a reservoir with a fixed overflow-spillway crest) the lowest level of the spillway crest
- W. **Notification**--the act of informing individuals or agencies about an emergency condition so they can initiate appropriate actions
- X. **Operator**--the person or position in a company or organization charged with responsibility for the operation and surveillance of a dam
- Y. **Outlet**--a constructed opening through which water from a reservoir can be safely discharged for a particular purpose

- Z. **Owner**--any person, organization, agency, or authority that owns, controls, operates, maintains, or manages a dam, reservoir, or water obstruction or encroachment
- AA. **Seepage**--the movement of water that may occur through a dam, its foundation, or its abutments
Small amounts of seepage of clear water are normal. However, either an increase in the amount of water flow or a change in color is a cause for concern for the safety of a dam.
- BB. **Slide**--the movement of a mass of earth down a slope
In embankments and abutments a slide involves the separation of a portion of the slope from the surrounding materials.
- CC. **Special-needs facility**--a building or establishment housing or otherwise serving persons with specific/special needs
Special-needs facilities include day-care centers for children or for persons with mental or physical disabilities; assisted-living centers; and other residential or educational facilities serving certain segments of the population.
- DD. **Spillway**--a structure over or through which flows are discharged
If the flow is controlled by mechanical means (such as 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 stream downstream
- FF. **Toe of dam**--(1) the junction of the downstream face of a dam with the surface of the ground (also referred to as downstream toe); (2) the junction of the upstream face with the surface of the ground (for an embankment dam, 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 or other wall, railing, etc.
- HH. **Traffic-control point (TCP)**--a checkpoint established at a critical junction/intersection of roads/streets for the purpose of controlling or limiting traffic
TCPs are used to control movement during an evacuation and to limit entry into specific areas when necessary due to an emergency.

VIII. EXERCISE AND TRAINING

The dam owner or her representative will advise the Luzerne County Emergency Management Agency (EMA) and the Wyoming County EMA of any/all exercises that are scheduled and will cooperate with the EMAs in those exercises. The dam owner or her representative will coordinate and cooperate with the Luzerne County and Wyoming County EMAs in executing all or portions of this EAP as part of either county's all-hazard exercise program schedule.

IX. PLAN MAINTENANCE AND DISTRIBUTION

- A. This plan is to be reviewed every five (5) years by the owner or the owner's engineer. During the five-year review, the following are to be done:
1. The owner's engineer will field-review the potential flood (inundation) area for any change or increase in downstream development/population and will revise the flood (inundation) area/map if needed.
 2. The owner's engineer will review and revise surveillance conditions as needed.
 3. The owner will coordinate with the Luzerne County EMA and/or the Wyoming County EMA if a population increase or development within the potential inundation area could affect the emergency response. If so, a new or revised plan must be developed.
 4. The owner will obtain concurrence from the EMAs within the two affected counties (Luzerne and Wyoming).
 5. The owner will submit any revised plan to DEP for approval.
- B. A copy of the approved EAP is to be distributed to each of the emergency-response agencies/organizations listed in section IV, and a letter certifying the distribution is to be submitted to the (DEP) Division of Dam Safety.

ATTACHMENTS:

- ATTACHMENT A: INUNDATION MAP (MAP OF DOWNSTREAM FLOOD AREA)
- ATTACHMENT B: TRAFFIC-CONTROL POINTS
- ATTACHMENT C: LOCATION MAP
- ATTACHMENT D: TELEPHONE ROSTER
- ATTACHMENT E: MEDIA ANNOUNCEMENTS
- ATTACHMENT F: (POSTING) NOTICE

ATTACHMENT A: INUNDATION MAP

LAKE CATALPA DAM
DEP NO. D40-057

DALLAS TOWNSHIP
LUZERNE COUNTY

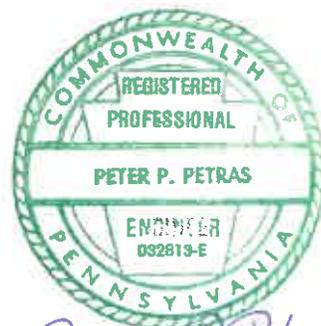
Scale: 1" = 1,000'

JUNE 2008

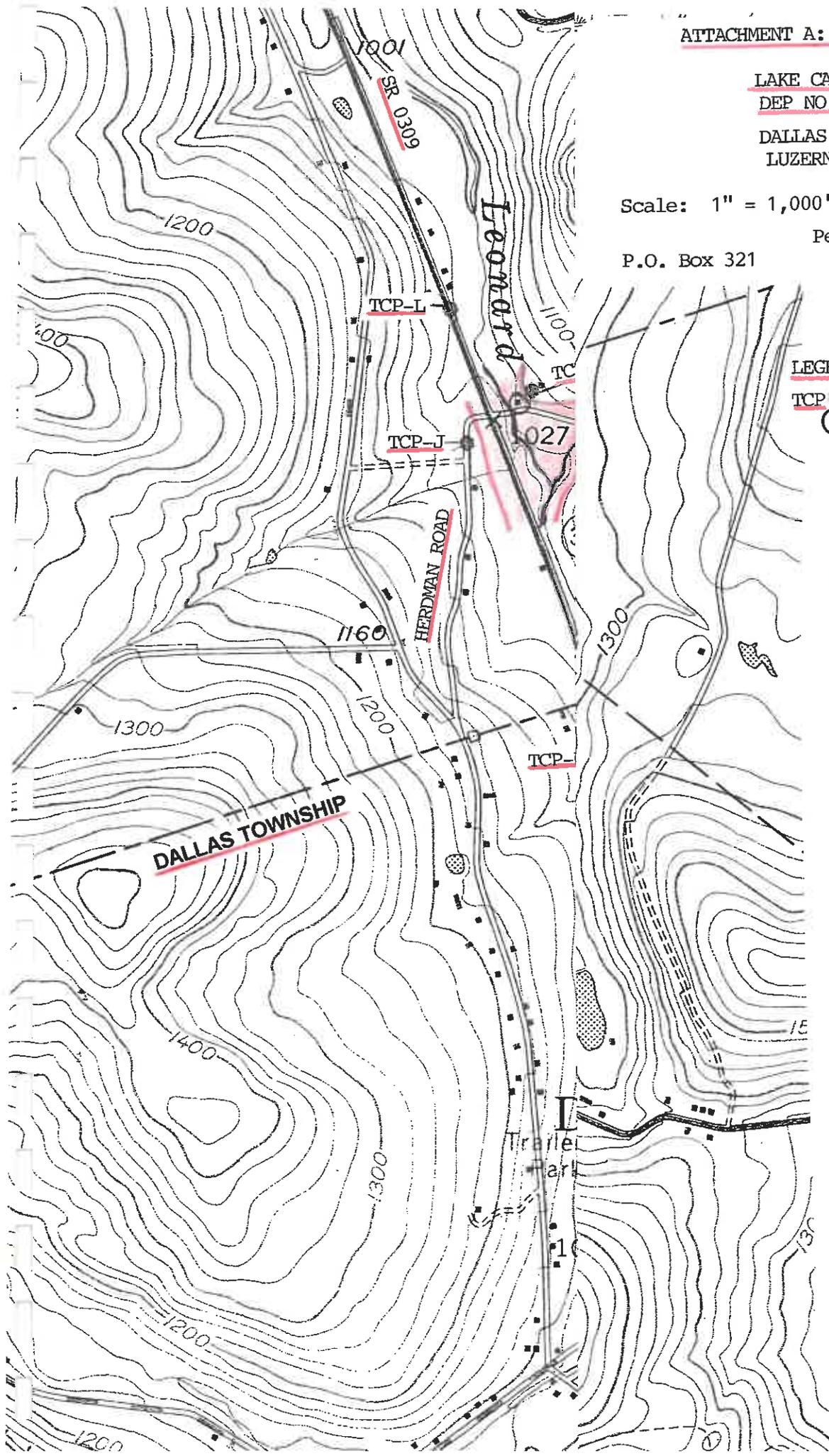
Petras
P.O. Box 321 Dalton, PA 18414-0321

LEGEND:

 **TCP** TRAFFIC-CONTROL POINT
 **AFFECTED DWELLING**



Peter P. Petras



ATTACHMENT B: TRAFFIC-CONTROL POINTS

As stated in the narrative of this plan, the **Dallas Township Police Department (Luzerne County)** and the **Pennsylvania State Police (at the Tunkhannock barracks in Wyoming County)** are assigned responsibility for establishing and maintaining these traffic-control points (TCPs). Personnel from the **Kunkle Fire Company** are to assist as needed/requested.

- TCP-A** At the private access road across the dam, at the intersection of the access road and (State Route) SR 1041
- TCP-B** At SR 1041, just west of the intersection of SR 1041 and SR 1026
- TCP-C** At SR 2018, 0.4 mile east of the intersection of SR 2018 and (township road) T318 (Falls Hill Road)
- TCP-D** At SR 2018, at the intersection of SR 2018 and T318 (Falls Hill Road)
- TCP-E** At T318, 0.1 mile northeast of the intersection of SR 2018 and T318 (Nesbitt Road)
- TCP-F** At SR 2018, 0.1 mile north of the intersection of T318 (Nesbitt Road) and SR 2018
- TCP-G** At T318, 200 feet west of the intersection of SR 2018 and T318 (Falls Hill Road)
- TCP-H** At the private access road to a residence, 200 feet north of the intersection of the access road and T318 (Falls Hill Road)
- TCP-J** At T318, 300 feet west of the intersection of SR 0309 and T318 (Herdman Road)
- TCP-K** At SR 0309, 0.5 mile south of the intersection of T318 and SR 0309
- TCP-L** At SR 0309, 900 feet north of the intersection of T318 and SR 0309

Note: Unless otherwise agreed upon at the time of the event, responsibility for establishing and maintaining these TCPs will be assigned as follows:

Dallas Township Police Department

TCP-B TCP-K

Kunkle Fire Company

TCP-A TCP-C TCP-D TCP-E TCP-F TCP-G TCP-H TCP-J

Pennsylvania State Police (Wyoming County)

TCP-L

ATTACHMENT D: TELEPHONE ROSTER

<u>Name / Identification</u>	<u>Emergency No.</u>	<u>Nonemergency No.</u>
Geraldine T. Nesbitt (dam owner)		(570)639-5492 (home)
Paul Adamchick (designated dam operator)	(570)760-0978 (cell/24-hr.)	(570)696-2174 (home)
Luzerne County 911	911 (570)819-4916 (24-hr.)	(570)826-3059
Luzerne County Emergency Management Agency (EMA)	(570)820-4400 (24-hr.) (800)821-3715 (24-hr.)	(570)820-4400 (24-hr.) (800)821-3715 (24-hr.)
Dallas Township (Luzerne County) emergency management coordinator	911	
Wyoming County Communications Center	911 (570)836-6161 (24-hr.)	(570)836-6161 (24-hr.)
Wyoming County Emergency Management Agency (EMA)	911 (570)836-2828 (24-hr.)	(570)836-2828 (24-hr.)
Monroe Township (Wyoming County) emergency management coordinator	911	
Kunkle Fire Company	911	(570)675-3334 (570)675-5554
Dallas Township Police Department	911	(570)674-2000 (24-hr.)
Pennsylvania State Police (Wyoming County)	911 (570)836-2141 (24-hr.)	(570)836-2141 (24-hr.)
Kunkle Fire Company (ambulance/rescue services)	911	(570)675-3334 (570)675-5554
American Red Cross (Wyoming Valley chapter)	911 (570)823-7161 (24-hr.)	(570)823-7161 (24-hr.)
American Red Cross (Wyoming County)	911	(570)836-2626
PennDOT (Luzerne County)	911 (570)826-2386 (24-hr.)	(570)826-2386 (24-hr.)
PennDOT (Wyoming County)	911 (570)836-3141 (24-hr.)	(570)836-3141
Tunkhannock Area School District (director of transportation)	(570)836-8221 (work) (570)237-5628 (cell/24-hr.)	(570)836-8221 (work) (570)278-4006 (home)
DEP Northeast Regional Office	(570)826-2511 (24-hr.)	(570)826-2511 (24-hr.)
DEP Division of Dam Safety (Harrisburg office)	(717)787-4343 (24-hr.) (800)541-2050 (24-hr.)	(717)787-8568
Pennsylvania Emergency Management Agency (PEMA)	(717)651-2001 (24-hr.)	(717)651-2001

ATTACHMENT E: MEDIA ANNOUNCEMENTS**WARNING MESSAGE:**

The Luzerne County (PA) Emergency Management Agency advises that, due to conditions at **Lake Catalpa Dam** across Falls Creek in Dallas Township, Luzerne County (Pennsylvania), the public should avoid low-lying areas along Falls Creek in Dallas Township (Luzerne County) and Monroe Township (Wyoming County) downstream from Lake Catalpa Dam to the junction of Falls Creek and Leonard Creek in Wyoming County. In particular, access to the following will be restricted:

- (1) the private access road to the Nesbitt property in Dallas Township (Luzerne County);
- (2) (State Route) SR 1041 in Dallas Township (Luzerne County), where it runs parallel to and is close (vertically) to Falls Creek;
- (3) SR 2018 in Monroe Township (Wyoming County), where it intersects Falls Creek;
- (4) (township road) T318 (Falls Hill Road) in Monroe Township (Wyoming County), where it intersects Falls Creek;
- (5) T318 (Falls Hill Road) in Monroe Township (Wyoming County), where it intersects Leonard Creek;
- (6) T318 (Herdman Road) in Monroe Township (Wyoming County), where it intersects SR 0309;
- (7) SR 0309 in Monroe Township (Wyoming County), at the junction of Falls Creek and Leonard Creek.

Due to the potential for flooding from **Lake Catalpa Dam** in Dallas Township in Luzerne County (Pennsylvania), all persons in downstream low-lying areas along Falls Creek in Dallas Township (Luzerne County) and Monroe Township (Wyoming County) are advised to monitor media announcements during the next few hours. People should be prepared to evacuate if advised to do so. More information will be announced as it becomes available. Any person needing assistance or shelter should contact the office of the **Wyoming County Emergency Management Agency** at **(570)836-2828**.

****REPEAT PERIODICALLY****

ATTACHMENT E: MEDIA ANNOUNCEMENTS (contd.)**EVACUATION MESSAGE:**

Because of conditions at **Lake Catalpa Dam** in Dallas Township, the Luzerne County (PA) Emergency Management Agency is advising all persons in low-lying areas downstream along Falls Creek in Dallas Township (Luzerne County) and Monroe Township (Wyoming County) to evacuate those areas immediately. Evacuation of the following is of particular urgency:

- (1) low-lying areas along Falls Creek at and from the junction of (State Route) SR 2018 and Falls Creek to the junction of Falls Creek and Leonard Creek;
- (2) low-lying areas along Leonard Creek just below the intersection of (township road) T318 and Leonard Creek.

Any person needing assistance or shelter during this emergency should contact the office of the **Wyoming County Emergency Management Agency** at **(570)836-2828**.

****REPEAT PERIODICALLY****

ALL-CLEAR MESSAGE (INCIDENT RESOLVED: RESIDENTS CAN RETURN SAFELY)

The Luzerne County (PA) Emergency Management Agency is advising persons in low-lying areas of Dallas Township (Luzerne County) and Monroe Township (Wyoming County) downstream from **Lake Catalpa Dam** across Falls Creek in Dallas Township, Luzerne County (PA) that the problem at the dam has been resolved and that they may return to the area.

****REPEAT PERIODICALLY****

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

ATTACHMENT F

NOTICE

LAKE CATALPA 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

LAKE CATALPA DAM (D40-057)
(NAME OF DAM)

A COPY OF THIS PLAN, INCLUDING AN INUNDATION MAP NOTING AREAS IN
DALLAS TOWNSHIP (LUZERNE COUNTY) AND MONROE TOWNSHIP (WYOMING COUNTY)
(NAME OF MUNICIPALITY AND/OR MUNICIPALITIES)

SUBJECT TO FLOODING IN THE EVENT OF FAILURE, IS AVAILABLE FOR PUBLIC INSPECTION AT THE FOLLOWING LOCATIONS:

[BY APPOINTMENT] RESIDENCE OF GERALDINE T. NESBITT (DAM OWNER)	RR1 BOX 315 (LAKE CATALPA ROAD IN DALLAS TOWNSHIP) DALLAS, PA 18612 (ADDRESS)
LUZERNE COUNTY EMA (COUNTY EMA OFFICE)	185 WATER STREET WILKES-BARRE, PA 18702 (ADDRESS)
DALLAS TOWNSHIP MUNICIPAL BUILDING (LOCAL EMA OFFICE)	601 TUNKHANNOCK HIGHWAY (SR 0309) DALLAS, PA 18612 (ADDRESS)
WYOMING COUNTY EMA (COUNTY EMA OFFICE)	455 SR 6 E, SUITE 1 TUNKHANNOCK, PA 18657 (ADDRESS)
[BY APPOINTMENT] RESIDENCE OF ARLENE TRAVER (MONROE TOWNSHIP SECRETARY) (LOCAL EMA OFFICE)	2605 SR 29 S (MONROE TOWNSHIP) TUNKHANNOCK, PA 18657 (ADDRESS)

