

PHMC Correspondence Included in the TMI-1 Initial License Renewal
Environmental Report



An Exelon Company

Michael P. Gallagher, PE
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May 22, 2007

Jean Cutler, Deputy State Historic Preservation Officer
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, Second Floor
400 North Street
Harrisburg, PA 17120-0093

SUBJECT: Three Mile Island Nuclear Station Unit 1 License Renewal, Request for Information on historic and archaeological resources.

Dear Ms. Cutler:

AmerGen Energy Company, LLC (AmerGen) is preparing an application to the U.S. Nuclear Regulatory Commission (NRC) to renew the operating license for Three Mile Island Nuclear Station, Unit 1 (TMI-1). The current operating license expires in 2014. The renewal term would be for an additional 20 years beyond the original license expiration date. As part of the license renewal process, NRC requires license applicants to "assess whether any historic or archaeological properties will be affected by the proposed project." NRC may also request an informal consultation with your office at a later date under Section 106 of the National Historic Preservation Act of 1966, as amended (16 USC 470), and Federal Advisory Council on Historic Preservation regulations (36 CFR 800). By contacting you early in the application process, we hope to identify any issues that need to be addressed or any information your office may need to expedite the NRC consultation.

AmerGen does not expect TMI-1 operations through the license renewal term (an additional 20 years) to adversely affect cultural resources in the area. Renewal of the TMI-1 operating license does not involve any changes or additions to the plant or transmission line structures. In addition to normal operations, AmerGen plans to replace the existing steam generators with newer models in the fall of 2009. These replacement activities would occur within the existing Unit 1 containment structure. A 6,000 square foot dedicated storage facility would be built within the existing industrial footprint of the site to house the old steam generators. This storage facility will be separately permitted, and will be located at a location that has previously been disturbed. For this project and any other potential earthworks projects, AmerGen's corporate procedures will ensure the protection of cultural resources.

Three Mile Island Nuclear Station Unit 1 is located in Londonderry Township in Dauphin County, Pennsylvania, on the northern end of Three Mile Island near the eastern shore of the Susquehanna River. Four transmission lines connect the station to the regional grid, and are thus relevant to license renewal (see Figure 1, TMI-1 Transmission System).

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They include:

- Line No. 1091 – TMI-1 Plant to Middletown Junction – This 230-kV line operated by First Energy Corporation extends north for 1.4 miles in a 150-foot wide corridor to the Middletown Junction Substation near Middletown.
- Line No. 1092 – TMI-1 Plant to Middletown Junction – This 230-kV line operated by First Energy Corporation extends north for 1.4 miles in a 150-foot wide corridor to the Middletown Junction Substation near Middletown.
- Line No. 1051 – TMI-1 Plant to Jackson Substation – This 230-kV line operated by First Energy Corporation extends southwest for 4.1 miles in a 150-foot wide corridor to the Jackson Substation near Cly, west of the Susquehanna River.
- Line from TMI-1 Plant to the 500-kV Substation – This 230-kV line shares the first four towers with the TMI-1 Plant to Jackson Substation line. The line extends southwest for 0.7 miles and connects to the 500-kV Substation.

In total, the transmission lines of interest are contained in approximately 5.5 miles of corridor that occupy approximately 130 acres. The TMI-1 Plant to Middletown Junction lines have adjacent corridors. The corridors pass through land that is primarily agricultural. The areas are mostly remote, with low population densities. Corridors that pass through pastures generally continue to be used as pastures. Each of the lines crosses State Highway 441 after leaving the switchyard. The TMI-1 Plant to Jackson Substation line also crosses several smaller roads.

Using the National Register Information System (NRIS) on-line database, we have compiled a list of sites on the National Register of Historic Places within a six-mile radius of the TMI-1 property. Table 1 (see attached) details those sites. We will provide this information to the NRC to aid in its evaluation of the license application.

Additionally, we will notify the NRC of cultural resources investigations of the TMI-1 site that have been performed. In 1967, TMI-1's applicants funded an archaeological survey and subsequent excavation of artifacts from the island prior to construction. The survey and excavation was conducted by the Pennsylvania Historical and Museum Commission (PHMC 1977). More than 1,000 artifacts were found and, from these artifacts, it was deduced that the site had period components ranging from 4,000 B.C. to 1,000+ A.D.

In April, 1987, a paper was presented at the Mid Atlantic Archaeological Conference Annual Meeting in Lancaster, Pennsylvania by two archaeologists detailing work they'd performed in relation to Three Mile Island (Mangold and Grace 1987). The archaeologists wanted to more clearly define the cultural occupations of the island by 1) inspecting extant private collections of those who've collected artifacts from Three Mile Island, 2) reviewing previous archaeological investigations, and 3) performing limited testing on the island. Their investigation led to the conclusion that cultures from the prehistoric Early Archaic through the historic Susquehannock Indians used the island and that much of the cultural data, stratigraphy, and features indicating human activity remain to be investigated.

In 1988, the Curator of Archaeology from the State Museum of Pennsylvania performed an investigation of a burial site discovered on the southern tip of the island by a TMI-1

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employee. The Curator concluded that the human burial was not the product of a recent homicide, but the remains of a 19th century island resident. The remains were collected and later reburied in a location near their original burial site. Associated cultural materials (i.e., clothing buttons, coffin nails, etc.) were collected and donated to the State Museum of Pennsylvania for perpetual curation (Burke 2006).

In 1999, the PHMC held a public history symposium and erected a "historical marker" on State Highway 441, south of the TMI-1 Visitor Center sign, commemorating the 20th anniversary of the TMI-1 Unit 2 accident. The symposium was a cooperative effort of the Pennsylvania Department of Environmental Protection, the Pennsylvania Historical Museum Commission, Pennsylvania State University - Harrisburg, the NRC, GPU Nuclear Incorporated, Three Mile Island Alert, Middletown Borough, and Londonderry Township (PHMC 1999).

Please call Fred Polaski (610) 765-5935, if you have any questions or require any additional information. After your review, we would appreciate receiving your input by August 17, 2007, detailing any concerns you may have about cultural resources in the area or confirming AmerGen's conclusion that operation of TMI-1 over the license renewal term would have no effect on cultural resources. This will enable us to meet our application preparation schedule. AmerGen will include a copy of this letter and your response in the Environmental Report that will be submitted to the NRC as part of the TMI-1 license renewal application.

Sincerely,



Michael P. Gallagher

May 21, 2007
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References:

PHMC (Pennsylvania Historical and Museum Commission). 1977. "Early and Middle Woodland Campsites on Three Mile Island, Dauphin County, Pennsylvania." Pennsylvania Historical and Museum Commission, William Penn Memorial Museum. Harrisburg, Pennsylvania. January.

PHMC (Pennsylvania Historical and Museum Commission). 1999. "News Release. TMI-1 20th Anniversary Event to Feature Federal, State, and Local Officials. Historical marker to be unveiled." Available online at http://www.phmc.state.pa.us/news/phmcnews1999_10.htm. Accessed August 2, 2006.

Burke, D. 2006. Letter with supporting material from David Burke, Assistant Curator, Section of Archaeology, State Museum of Pennsylvania to N. Hill, TtNUS, Inc. September 22.

Mangold, W. and Grace, T. 1987. "The Other Side of the Island: Additional Data on the Prehistoric Occupations of Three Mile Island." Presented at the Mid Atlantic Archaeological Conference Annual Meeting, Lancaster, Pennsylvania. April.

Attachments: Table 1, Figure 1, TMI-1 Transmission System Map.

Table 1 Sites Listed in the National Register of Historic Places and Department of Interior sites that fall within a 6-mile Radius of TMI

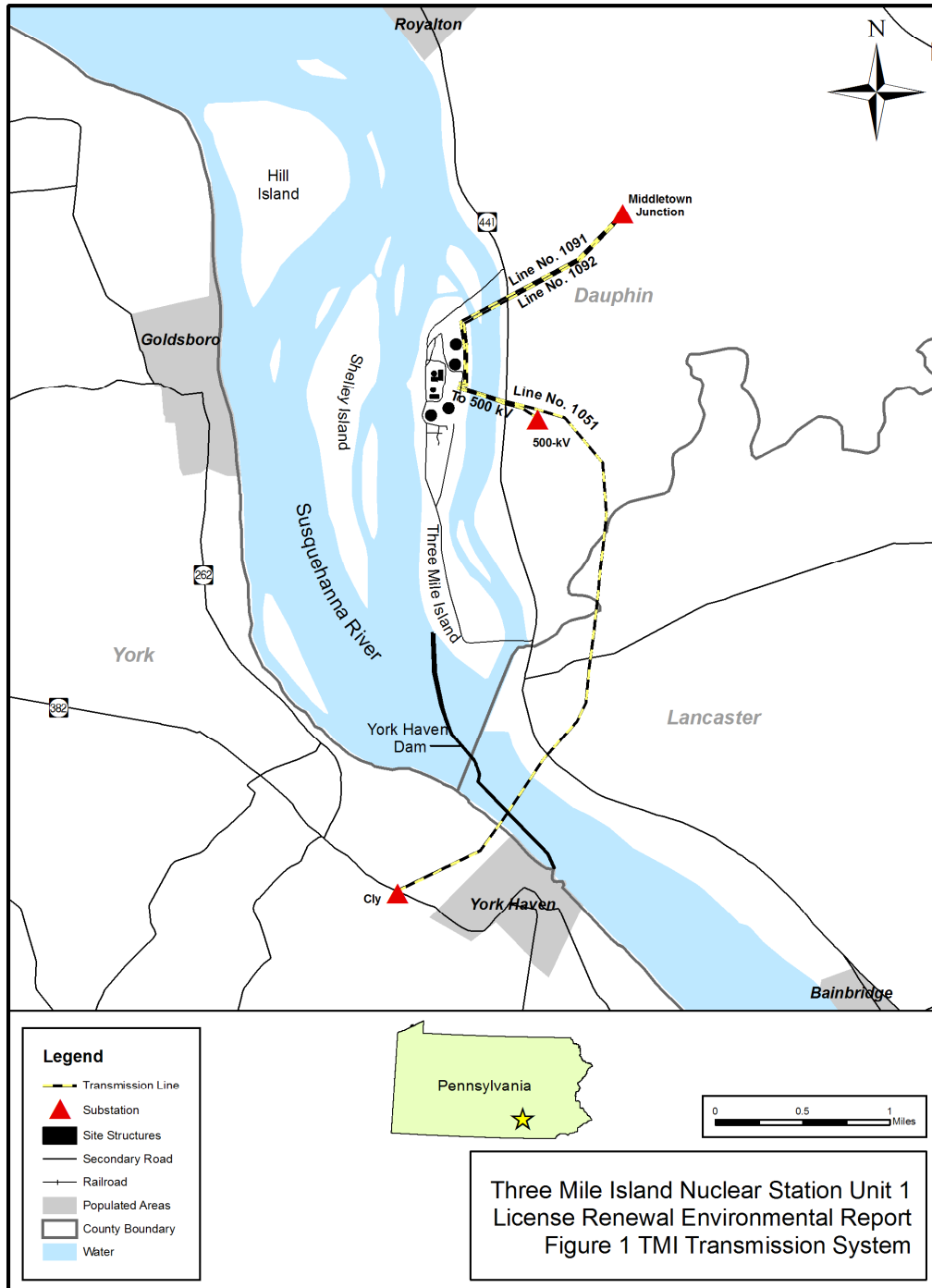
Site Name	Location
National Register of Historic Places Sites	
Byers-Muma House	1402 Trout Run Road, East Donegal Lancaster County
Donegal Presbyterian Church Complex	Donegal Springs Road, East Donegal Lancaster County
Kreider Shoe Manufacturing Company	155 South Poplar Street, Elizabethtown Lancaster County
B’Nai Jacob Synagogue	Nissley and Water Streets, Middletown Dauphin County
Simon Cameron House and Bank	28 and 30 East Main Street, Middletown Dauphin County
Henniger Farm Covered Bridge	Northeast of Elizabethville Dauphin County
Highspire High School	221 Penn Street, Highspire Dauphin County
Charles and Joseph Raymond Houses	37 and 38 North Union Street, Middletown Dauphin County
Henry Smith Farm	950 Swatara Creek Road, Middletown Dauphin County
St. Peter’s Kierch	31 West High Street, Middletown Dauphin County
Star Barn Complex	Nissley Drive at PA 283, Lower Swatara Dauphin County
Swatara Ferry House	400 Swatara Street, Middletown Dauphin County
Michael and Magdealena Bixler Farmstead	400 Mundis Race Road, East Manchester York County
Codorus Forge and Furnace Historic District	Junction of River Farm and Furnace Roads, Hellam Township, Saginaw York County
Goldsboro Historic District	Roughly bounded by North, Third, Fraser, and Railroad Streets, Borough of Goldsboro York County
Hammersly-Strominger House	Northeast of Lewisberry on PA 177, Lewisberry York County
Kise Mill Bridge	LR 66003 over Bennett Run, Woodside York County
Kise Mill Bridge Historic District	Address Restricted, York Haven York County

Table 1 Sites Listed in the National Register of Historic Places and Department of Interior sites that fall within a 6-mile Radius of TMI (continued)

Site Name	Location
Sinking Springs Farms	Roughly bounded by Church Road, Sinking Springs Lane, North George Street, Locust Lane, Susquehanna Trail, and PA 238, Manchester York County
Sites Eligible for Listing	
Haldeman Mansion	Township Road 839, Bainbridge Township Lancaster County
Goldsboro Historic District	Borough of Goldsboro, York County
Lewisberry Historic District	Roughly bounded by Lewis Street, City Unavailable York County
Newberrytown Historic District	Village of Newberrytown York County

Source: USDOJ 2006.

Figure 1 - TMI-1, Transmission System Map
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Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

June 4, 2007

MPA 6-7-07

Michael P. Gallagher
AmerGen
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

TO EXPEDITE REVIEW USE:
BHP REFERENCE NUMBER

Re: File No. ER 07-1737-043-A
NRC: Three Mile Island Nuclear
Station Unit 1 License Renewal
Londonderry Twp., Dauphin Co.

Dear Mr. Gallagher:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation. These requirements include consideration of the project's potential effect upon both historic and archaeological resources.

There may be historic buildings, structures, and/or archaeological resources located in the project area. In our opinion the activities described in your proposal should have no effect on these resources. Should you become aware, from any source, that unidentified historic buildings, structures, and or archaeological resources are located at the project site, or that the project activities will have an effect on these properties, the Bureau for Historic Preservation should immediately be contacted.

If you need further information regarding archaeological survey please contact Doug McLearen at (717) 772-0924. If you need further information concerning historic structures please consult Susan Zacher at (717) 783-9920.

Sincerely,

Douglas C. McLearen, Chief
Division of Archaeology &
Protection

DCM/tmw

Michael P. Gallagher, PE
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10 CFR 51
10 CFR 54

TMI-09-058
May 15, 2009

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Three Mile Island Nuclear Station, Unit 1
Facility Operating License No. DPR-50
NRC Docket No. 50-289

Subject: Three Mile Island Nuclear Station Unit 1 License Renewal Application
Supplemental Updated Environmental Information.

- References:**
1. Three Mile Island Nuclear Station Unit 1 License Renewal Application Environmental Report, submitted 1/8/2008.
 2. Teleconference held 7/17/2008 between the staff and Amergen regarding follow-up questions from the April 28 – May 1 Environmental site audit.
 3. Letter from Exelon Nuclear (M. Gallagher) to NRC regarding "Three Mile Island Nuclear Station Unit 1 Updated Environmental Information," Letter No. TMI-09-040, 3/25/2009.

On May 7, 2009, representatives of Exelon Generation Company ("EGC"), the NRC Staff, and the Pennsylvania Historical and Museum Commission (PHMC) participated in a telephone conference call to discuss concerns raised by the PHMC in response to updated information about the protection of cultural resources at TMI-1, which was submitted to NRC with Reference 3. In order to address PHMC concerns, EGC plans to take the following actions to protect cultural resources on EGC-owned property located on Three Mile Island.

1. By May 28, 2010, implement a Cultural Resources Management Plan ("CRMP") to integrate cultural resource considerations into ongoing activities on EGC-owned property located on Three Mile Island. The CRMP scope will include a plan for periodic monitoring of erosion areas along the shore of Three Mile Island.
2. By December 31, 2011, implement initial installment of periodic training for appropriate TMI personnel on National Historic Preservation Act Section 106 procedures.

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In addition, EGC will cooperate with FirstEnergy Corporation ("FirstEnergy") in arranging access for PHMC personnel to the FirstEnergy-owned TMI Unit 2 property, and EGC will cooperate with PHMC to further record and evaluate the farmstead on the southeast side of Three Mile Island for eligibility to be listed on the National Register of Historic Places.

If you have any questions, please contact Al Fulvio, Manager License Renewal, at 610-765-5936.

I declare under penalty of perjury that the foregoing is true and correct.

Respectfully,

Executed on 05-15-2009


Michael P. Gallagher
Vice President, License Renewal
Exelon Generation Company, LLC

cc: Regional Administrator, USNRC Region I
USNRC Project Manager, NRR - License Renewal, Safety
USNRC Project Manager, NRR - License Renewal, Environmental
USNRC Project Manager, NRR - TMIGS
USNRC Senior Resident Inspector, TMIGS
Douglas McLearen, Division Chief, Archaeology and Protection, PHMC

File No. 08001

TMI-1 Decommissioning Project Description and
Summary of Cultural and Historic Resources Review

ATTACHMENT 1

TMI-1 Decommissioning Project Description and Summary of Cultural and Historic Resources Review

Project Features

Three Mile Island Unit 1 (TMI-1) is located in the Londonderry Township of Dauphin County approximately 10 miles southeast of Harrisburg, Pennsylvania. The TMI-1 structures are located on Three Mile Island, an island in an impounded portion of the Susquehanna River known as Lake Frederic. The island is located at approximately river mile 58 (Reference 1).

The Three Mile Island Nuclear Station (TMINS) site encompasses approximately 440 acres including Three Mile Island and adjacent islands on the north end, a strip of land on the mainland along the eastern shore of the river, and the area on the eastern shore of Shelley Island that is within the exclusion area (a 2,000-foot radius from a point equidistant between the centers of the Reactor Buildings). TMI-1 structures are located on the northern end of Three Mile Island. Undeveloped land on the island is found south of the TMI-1 facilities. Most of this undeveloped land lies under the 10-year flood level. The southern part of the island also contains wetlands formed from borrow pits created during construction of the station.

The TMINS site also includes a second unit (TMI-2) owned by FirstEnergy Corporation (FirstEnergy). TMI-2 has been shut down since the accident in 1979 and since 1993 has been in a SAFSTOR condition known as "post-defueling monitored storage" pending decommissioning at some future time (Reference 2). The TMI-2 structures are intermingled with those of TMI-1; however, the decommissioning of TMI-2 and TMI-1 are independent actions.

In the Generic Environmental Impact Statement on Decommissioning of Nuclear Facilities, Section 4.1.2 (Reference 3), confinement of decommissioning activities to the "operational area" was considered to be a key discriminator for ecological and cultural impacts, with only small impacts expected to occur within the operational area. NUREG 0586 Supplement 1 defines the term "operational area" as follows:

"The operational area is defined as the portion of the plant site where most or all of the site activities occur, such as reactor operation, materials and equipment storage, parking, substation operation, facility service, and maintenance. This includes areas within the protected area fences, the intake, discharge, cooling, and associated structures as well as surrounding paved, graveled, maintained landscape, or other maintained areas."

Current planning anticipates that TMI-1 decommissioning activities will be limited to the TMI-1 operational area, except for the possible excavation of fill from onsite areas outside of the operational area to backfill the foundations of buildings and structures after demolition.

Figure 1 depicts the TMINS site location and the approximate TMI-1 operational area boundary.



Figure 1 : TMI-1 Approximate Operational Area Boundary

Identification of Historic and Archaeological Resources

Exelon has conducted an updated review of available information including data on locations of inventoried resources from plant documentation and Pennsylvania State Historic Preservation Office (PA SHPO) about cultural, historical, and archaeological resources for the TMI-1 site and an approximate 6-mile radius. Currently, no historic properties, including prehistoric and historic archaeological sites, above-ground historic structures or traditional cultural properties eligible for listing or listed on the National Register of Historic Places (NRHP) lie within the TMI-1 operational area.

One archaeological site within the TMI-1 operational area (identified on the NRHP as 36DA50) is believed to remain intact. The site is north of the access road at the northern end of the operational area. Its eligibility for listing on the NRHP is categorized as undetermined due to insufficient information, presumably due to uncertainty about its current condition.

Six archaeological sites are located on the central and southern portions of Three Mile Island outside the TMI-1 operational area but within the TMINS property boundary. In 2016, one of these archaeological sites (36DA100) was determined to be eligible for the NRHP. That site is at the south end of the island near the South Access Road. Another archaeological site (36DA98) is immediately south of the operational area in a location used for staging and soil borrowing during construction of the station, and it was likely removed by those construction activities. A third site (36DA51) has been determined to be not eligible for listing, and three more sites (36DA99, 36DA101, and 36DA235) are considered unevaluated due to insufficient information.

Beyond Three Mile Island operational area, but within a 6-mile radius, there are 13 properties currently listed on the NRHP and 32 NRHP-eligible properties. One property, a section of the Pennsylvania Railroad Main Line linear historic district, lies 0.4 miles away from TMI-1 and the remaining properties are more than 1 mile away. Table 1 contains a list of these properties.

Table 1: Properties Listed or Eligible for Listing on the NRHP within 6 Miles of TMI-1

Key No. or Site No. (NRIS No.) ^{1,2}	Property Name	Location (Distance from TMI-1) ³
<i>NRHP-Listed Properties</i>		
77464 (85002413)	B'nai Jacob Synagogue	Nissley and Water Sts., Middletown Borough, Dauphin Co. (3.0 mi. N)
96260 (88000795)	Bridge between East Manchester & Newberry Townships	Rte 181 (York Haven Rd./N George St. Extd.) over Conewago Creek, East Manchester Twp.; Newberry Twp., York Co. (5.0 mi. S)
Site 36DA0089 Key No. 142953 (06001256)	Calver Island Site, a multicomponent pre-Contact period archaeological site	Restricted, Dauphin Co. (>5.0 mi. NW)
501 (76001634)	Simon Cameron House & Bank	28-30 E Main St., Middletown Borough, Dauphin Co. (3.2 mi. N)

Key No. or Site No. (NRIS No.)^{1, 2}	Property Name	Location (Distance from TMI-1)³
64394 (84003589)	GoldsBorough Historic District	Roughly bounded by North, 3rd, Fraser, and Railroad Sts., GoldsBorough Borough, York Co. (1.2 mi. W)
87197 (90000703)	Highspire High School	221 Penn St., Highspire Borough, Dauphin Co. (5.2 mi. NW)
116 (88000799)	Kise Mill Bridge	LR 66003 over Bennett Run, Newberry Twp., York Co. (5.2 mi. SW)
1119 (80003650)	Kise Mill Bridge Historic District	Junction of Kise Mill and Roxberry Roads, E of Lewisberry, Newberry Twp., York Co. (5.1 mi. SW)
518 (79002221)	Charles & Joseph Raymond Houses	37-38 N Union St., Middletown Borough, Dauphin Co. (2.9 mi. N)
521 (73001621)	Saint Peter's Kierch	31 W High St., Middletown Borough, Dauphin Co. (3.3 mi. N)
95689 (88003050)	Henry Smith Farm (AKA Hidden Spring Farm)	950 Swatara Creek Rd., Londonderry Twp., Dauphin Co. (4.1 mi. N)
79148 (00000845)	Star Barn Complex	Nissley Dr., Lower Swatara Twp., Dauphin Co. (5.4 mi. NW)
524 (76001635)	Swatara Ferry House	400 Swatara St., Middletown Borough, Dauphin Co. (2.6 mi. N)

NRHP-Eligible Properties

36DA0220	Unnamed multicomponent pre-Contact period archaeological site	Restricted, Dauphin Co. (>5.0 mi. NW)
140134	Unnamed bridge [Red Mill Rd. over Fishing Creek]	SR 7220, Newberry Twp., York Co. (3.9 mi. W)
140139	Unnamed bridge [Sheepbridge Rd. over Conewago Creek]	SR 4021, Newberry Twp., York Co. (4.9 mi. SW)
36LA0005	Brandt Site, a multicomponent pre-Contact and historic period archaeological site	Restricted, Lancaster Co. (>5.0 mi. SE)

Key No. or Site No. (NRIS No.)^{1, 2}	Property Name	Location (Distance from TMI-1)³
82633	Elizabethtown State Hospital	1451 N Market St., Mount Joy Twp., Lancaster Co. (5.6 mi. E)
115304	Geyer United Methodist Church & Cemetery	S Geyers Church and Hillsdale Rds., Londonderry Twp., Dauphin Co. (1.7 mi. NE)
115302	J. Geyer Farmstead	2083 Felker Rd., Londonderry Twp., Dauphin Co. (2.2 mi. NE)
79196	Dr. Rife Gingrich Farm	Foxianna Rd., Londonderry Twp., Dauphin Co. (2.1 mi. NNE)
82182	Haldeman/Fitzkee House	Race St., Conoy Twp., Lancaster Co. (5.3 mi. SE)
200630	Martin Heisey Farm	1731 Bainbridge Rd., West Donegal Twp., Lancaster Co. (5.3 mi. ESE)
101635	A.S. Kreider Shoe Factory	160 Wilson St., Middletown Borough, Dauphin Co. (2.8 mi. N)
89500	Middletown Historic District	Vic. Union and Main Sts., Middletown Borough, Dauphin Co. (2.6 mi. N)
36LA0039	Mohr Site, a multicomponent pre-Contact period archaeological site	Restricted, Lancaster Co. (>5.0 mi. SE)
87198	John Motter Farm (AKA Spring Garden Farm)	1260 Lumber St., Lower Swatara Twp., Dauphin Co. (5.6 mi. NW)
142024	Mumma Farm	225 Oberlin Rd., Lower Swatara Twp., Dauphin Co. (4.2 mi. NNW)
86953*	Newberrytown Historic District	Old Trail / York Haven Rd. E of High St., Newberry Twp., York Co. (3.8 mi. WSW)
116689	Northern Central Railway (Fairview Township)	PA Tpk. and Marsh Run Rd., Fairview Twp., York Co. (5.3 mi. NW)
116364	Odd Fellows Home of Pennsylvania	999 W Harrisburg Pike, Lower Swatara Twp., Dauphin Co. (3.4 mi. NNW)
102143*	Pennsylvania Railroad: Enola Branch Low Grade Freight Line (Enola to Parkesburg)	Linear HD--Conoy Twp., Lancaster Co.; and York Haven Borough & East Manchester, Fairview, and Newberry Twps., York Co. (min. 1.2 mi. W)

Key No. or Site No. (NRIS No.) ^{1, 2}	Property Name	Location (Distance from TMI-1) ³
<i>[Within the 6-mile radius buffer around TMI-1, this linear historic district traverses the western bank of the Susquehanna River and comprises a portion of Norfolk Southern Railway's present-day Port Road Branch, formerly known as the Enola Branch.]</i>		
105675	Pennsylvania Railroad: Main Line (Philadelphia to Harrisburg)	Linear HD--Highspire, Middletown, Royalton, and Steelton Boroughs & Londonderry, Lower Swatara, and Swatara Twps., Dauphin Co.; and Elizabethtown Borough & Conoy, Mount Joy, West Donegal Twps., Lancaster Co. (min. 0.4 mi. E)
<i>[This linear historic district consists primarily Amtrak's present-day Philadelphia to Harrisburg Main Line, which passes a minimum of 1.1 miles NE of TMI-1. It also includes lines that loop south through Royalton and Columbia between Lancaster and Harrisburg. This southerly loop comprises Norfolk Southern Railway's present-day Columbia Secondary and Royalton branches, apparently along with a short section of the Port Road Branch on either side of Marietta. The Royalton Branch follows the eastern bank of the Susquehanna River and passes a minimum of 0.4 mile E of TMI-1.]</i>		
143290	Pennsylvania Railroad: Station (Elizabethtown), associated w/Key No. 105675, PRR Main Line	Wilson Ave., Elizabethtown Borough, Lancaster Co. (6.0 mi. W)
96401	Pennsylvania Steel Company	S Front St., Steelton Borough, Dauphin Co. (5.5 mi. NW)
122695	Pennsylvania Turnpike: Philadelphia [Eastern] Extension (Carlisle to Valley Forge)	Linear HD--Highspire, Middletown, and Steelton Boroughs & Conewago, Londonderry, Lower Swatara, Swatara Twps., Dauphin Co.; Mount Joy Twp., Lancaster Co.; and Fairview Twp., York Co. (min. 3.8 mi. N)
97639	Pine Street Public School	60 Walton St., York Haven Borough, York Co. (3.3 mi. S)
115306	Jacob & Fanny Rife Farmstead	1218 Foxiana Rd., Londonderry Twp., Dauphin Co. (2.3 mi. NNE)
94119	Shettle's Farm Bridge	Red Mill Rd., Newberry Twp., York Co. (3.22 mi. W)
129266	Smuller, George House	460 N Union St., Middletown Borough, Dauphin Co. (3.2 mi. N)

Key No. or Site No. (NRIS No.)^{1, 2}	Property Name	Location (Distance from TMI-1)³
36DA0100	Three Mile Island Site, a multicomponent pre-Contact period archaeological site	Restricted, Dauphin Co. (1 to 2 mi. S)
102239	Dorothy Wittle Property	1165 Turnpike Rd., West. Donegal Twp., Lancaster Co. (4.9 mi. E)
99211	York Haven Free Library	S Front St. & Pennsylvania Ave., York Haven Borough, York Co. (3.1 mi. S)
96657	York Haven Hydroelectric Plant	1 Hydro Park Dr., York Haven Borough, York Co. (2.9 mi. S)
116360	Zimmerman House	103-105 Rosedale Ave., Lower Swatara Twp., Dauphin Co. (3.4 mi. NNW)

Sources: NPS 2017 (Reference 4); PA SHPO 2018 (Reference 5). Data current as of 12/5/2017 and 5/1/2018, respectively.

Notes: (1) PA SHPO assigns Key Nos. (3 to 6 digits) to inventoried aboveground properties and Site Nos. to inventoried archaeological sites (36XX0000 trinomials, with 4-digit sequential numbers to facilitate digital sorting). NRIS Nos. (8 digits) are reference numbers assigned by the NPS NRHP Program upon approval of the nominated property for NRHP listing. (2) All NRHP eligibility determinations are findings by the PA SHPO, except for two marked with asterisks (*), which are by the Keeper of the NRHP. (3) Confirmation that properties were extant as of April 2016 and are in the 6-mile buffer is based on checks using Google Earth (2018) (Reference 6).

In NUREG-0586 Supplement 1, Section 4.3.14.2, NRC noted the potential for a decommissioning nuclear facility itself to be potentially eligible for inclusion in the NRHP, especially if it is older than 50 years and represents a significant historic or engineering achievement. TMI-1 was completed and began energy production in 1974 and will reach 50 years of age during the SAFSTOR period. TMI-1 is a typical mid-twentieth century light water reactor. The design, engineering processes, and construction of TMI-1 are unexceptional and lacking any major engineering innovations. Accordingly, TMI-1 itself seems unlikely to be potentially eligible for inclusion in the NRHP, although this could be further considered at a time nearer to the actual start of decommissioning activities. The engineering drawings from the station will be archived by Exelon Records Management until decommissioning is complete.

The possible NRHP eligibility of Three Mile Island as the site of the accident-damaged TMI-2 was evaluated in 1983 (Key No. 079154), but at that time it was determined that the Island was not NRHP-eligible. In 1999, the Pennsylvania Historical and Museum Commission (PHMC) held a public history symposium and erected a "historical marker" on State Highway 441, south of the TMINS Visitor Center sign, commemorating the 20th anniversary of the TMI-2 accident. The symposium was a cooperative effort of the Pennsylvania Department of Environmental Protection (PA DEP), the PHMC, Pennsylvania State University - Harrisburg, the NRC, GPU Nuclear Incorporated, Three Mile Island Alert, Middletown Borough, and Londonderry Township.

Decommissioning Activities and Mitigation

In 2009, Exelon developed a Cultural Resources Protection Plan and an Archaeological Resources Erosion Monitoring Plan. These plans provide protocols for ensuring continued stewardship of cultural resources on Three Mile Island during the final operational years of TMI-1 and into the post-operational SAFSTOR period. Exelon also utilizes standard protocols for environmental reviews of facility operations and activities and for excavations, which serve as additional, generic protection for inadvertent impacts to cultural resources. Moreover, Exelon maintains site-specific policies and procedures to address unanticipated discoveries of cultural resources. Should an unanticipated discovery be made during decommissioning of TMI-1, Exelon would implement its procedures to address the discovery.

Backfill for demolished building and structure foundations will be sourced from onsite demolition activities. If additional clean fill is needed, it could be obtained from onsite within or beyond the operational area. Prior to excavating backfill outside of the operational area, Exelon will evaluate the area's archaeological sensitivity, and implement its protocols discussed above for ensuring continued stewardship of cultural resources on Three Mile Island. Should an unanticipated discovery be made, Exelon procedures to address the discovery would be implemented.

Use of explosives for demolition of the natural draft cooling towers will be in accordance with applicable PA DEP regulations (25 Pa. Code § 211) and best management practices and will seek to minimize the generation of fugitive dust, avoiding possible adverse effects to historic properties. The PA DEP regulations for use of explosives also limit peak particle velocities to minimize ground vibration that could damage structures. The regulatory limit is set to prevent cosmetic damage to plaster walls and thus would also avoid major cracking of interior walls, foundation damage, or other structural damage. By designing the demolition by implosion to yield peak particle velocities below regulatory limits, vibrations associated with the explosions and controlled collapse of the towers are not expected to adversely affect currently identified historic properties.

References

- 1 U.S. Nuclear Regulatory Commission 2009. "Generic Environmental Impact Statement for License Renewal of Nuclear Plants, Supplement 37, Regarding Three Mile Island Nuclear Station, Unit 1," Section 2.2.4, NUREG-1437, Supplement 37, dated June 2009 (ADAMS Accession No. ML091751063)
- 2 GPU Nuclear. 2015, "Three Mile Island Nuclear Power Station Unit 2 Post-Shutdown Decommissioning Activities Report, Rev. 2," Sections I and II, dated December 2015 (ADAMS Accession No. ML15338A222)
- 3 U.S. Nuclear Regulatory Commission 2002, "Generic Environmental Impact Statement on Decommissioning of Nuclear Facilities," NUREG-0586, Supplement 1, Office of Nuclear Reactor Regulation, Washington, D.C., dated November 2002 (ADAMS Accession Nos. ML023470304 (Vol 1) and ML023470323 (Vol 2))
- 4 National Park Service. 2017, National Register of Historic Places Program: Research – Data Downloads – Spreadsheet of NRHP List. Updated December 5, Accessed at https://www.nps.gov/nr/research/data_downloads/national-register-listed-properties-20171205.xlsx, May 6, 2018
- 5 Pennsylvania State Historic Preservation Office, 2018, "Cultural Resources Geographic Information System [CRGIS]," Available at <https://www.dot7.state.pa.us/CRGIS>, Accessed May 1, 2018

- 6 Google Earth 2018, Geoprojected Vertical Aerial Imagery in the Vicinity of Lat.-Long. 40.154167, -76.7250, April 1993 to April 2016, Electronic resource. Application available via <https://www.google.com/earth/>, accessed May 2018



Pennsylvania State Historic Preservation Office

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

February 19, 2019

Exelon Generation

Attn: Michael P. Gallagher, Vice President, License Renewal & Decommissioning

200 Exelon Way

Kennett Square, PA 19348

RE: ER 2007-1737-043-L – NRC: Three Mile Island Nuclear Station Unit 1 Decommissioning, Londonderry Township, Dauphin County

Dear Mr. Gallagher:

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 *et seq.* (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Historic (Above Ground) Resources

There may be above ground historic properties within the project area of potential effect. However, in our opinion, the project as proposed will have no effect on historic properties, should they exist. Should the scope and/or nature of the project change, the PA SHPO should be contacted immediately.

Archaeological Resources

The act of decommissioning TMI-1 will have no effect on archaeological resources. However, the information you submitted indicates decommissioning activities will be limited to the TMI-1 operational area, except for the possible excavation of fill from onsite areas outside of the operational area to backfill the foundations of buildings and structures after demolition. If possible, please identify the locations of any such onsite areas from which fill may be taken. If the locations of these areas are currently unknown, then please continue to consult with our office once these locations are known. We appreciate your cooperation.

If you have any questions or comments concerning our review for historic resources, please contact Emma Diehl at emdiehl@pa.gov or (717) 787-9121. If you have any questions or comments concerning our review for archaeological resources, please contact Mark Shaffer at mshaffer@state.pa.us or (717) 783-9900.

Sincerely,

Douglas C. McLearn, Chief
Division of Environmental Review

First Energy - Substation Project Correspondence



December 22, 2025

Sent Via PA-SHARE

RE: ER Project # 2025PR04534.002, Three Mile Island 500kV Substation Expansion Project, Army Corps of Engineers, Londonderry Township, Dauphin County

Dear Submitter,

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Archaeological Resources

More Information Requested - Environmental Review - SHPO Sends Archaeo Comments

At the request of Hannah Pell from Constellation Nuclear, PA SHPO is providing clarification for portions of the APE that should receive a Phase I Archaeology Survey. The portions of the proposed project's APE that should receive a Phase I archaeological survey include the substation expansion, new stormwater basin, the driveway realignment, and the new location of TMI-1E (if it is outside of the footprint of the existing lattice tower). The portion of the project's APE that is located on Three Mile Island--the construction of a new monopole/TMI-1W--does not need a Phase I survey due to previous ground disturbance from past TMI operations. If the APE changes, please submit the changes to PA-SHARE for additional review by the PA-SHPO.

More Information Requested - New Survey

Please use this request for more information to upload the Phase I Archaeology survey report when it is ready. Please submit the requested materials to the PA SHPO through PA-SHARE using the link under SHPO Requests More Information on the Response screen.

For questions concerning archaeological resources, please contact Kristen Walczesky at kwalczesky@pa.gov.

Sincerely,

A handwritten signature in black ink that reads 'Barbara Frederick'.

Barbara Frederick
Environmental Review Division Manager