Appendix B

Clean Water Act Documentation

Table of Contents

Pennsylvania Department of Environmental Protection

909 Elmerton Avenue
Harrisburg, PA 17110-8200

OCT 3 0 2007

Southcentral Regional Office

717-705-4707
FAX - 717-705-4760

CERTIFIED MAIL NO. 7006 0100 0004 5235 2971

Mr. Thomas Dougherty, Plant Manager
AmerGen Energy Company, LLC
Route 441 South, PO Box 480
Middletown, PA 17057-0480

Re: Industrial Waste
AmerGen Energy Company - TMI
NPDES Permit No. PA 0009920
APS ID No. 9920
Authorization No. 676346
Londonderry Township, Dauphin County

Dear Mr. Dougherty:

Your permit is enclosed. Read the permit and the special conditions carefully.

A Discharge Monitoring Report (DMR) and Supplemental Reporting Forms are included. The master DMR will be prepared and distributed by the U.S. Environmental Protection Agency (EPA) in the near future. Use the enclosed DMR Form until you receive a master from EPA. The reporting forms must be submitted to the Department and the EPA Regional Office as instructed in the permit and the enclosed Instruction Sheet.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, PO Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretaryto the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

Mr. Thomas Dougherty - 2 -

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.

If you have any questions, please call Mr. James D. Miller of the Permits Section at 717-705-4825.

Sincerely,

Lee A. McDonnell, P.E.
Program Manager
Water Management Program

Enclosures

cc: U.S. Environmental Protection Agency (w/NPDES)
Scott Cogley, AmerGen Energy Company, LLC (w/enclosure)

Pennsylvania Department of Environmental Protection

WATER MANAGEMENT PROGRAM

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NPDES PERMIT NO. PA 0009920

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq.,

AMERGEN ENERGY COMPANY, LLC
(THREE MILE ISLAND NUCLEAR STATION)
ROUTE 441 SOUTH, PO BOX 480
MIDDLETOWN, PA 17057-0480

is hereby authorized to discharge from a facility located in Londonderry Township, Dauphin County to the receiving waters named Susquehanna River in Watershed 7-G in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B, and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON NOVEMBER 1, 2007

AND EXPIRE AT MIDNIGHT, OCTOBER 31, 2012.

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.

2. Failure to comply with the terms or conditions of this permit is grounds for enforcement action; for permit termination, revocation and reissuance or modification; or for denial of a permit renewal application.

3. Application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date), using the appropriate NPDES Permit Application Form. In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions to this permit will be automatically continued and will remain fully effective and enforceable pending the grant or denial of the application for permit renewal.

4. This permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

PERMIT ISSUED: OCT 30 2007 BY: _____

Lee A. McDonnell, P.E.
Program Manager
Southcentral Regional Office

PERMIT AMENDED: _____

NPDES Permit No. PA 0009920
Page 2

PART A

LAT: 40°09'08"
LONG: 76°43'40"

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 001, which receives wastewater from circulating cooling water; secondary service water; reactor building emergency cooling; decay heat; nuclear service water; liquid radioactive waste treatment; contributing internal monitoring points (101, 401, 501, 701); station blackout diesel cooling water; and other minor sources as identified in the NPDES permit application.

1. Numbers in parentheses ( ) refer to Footnotes/Additional Requirements/Information on page 3.

2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s): at Outfall 001, unless otherwise noted below.

DISCHARGE LIMITATIONS[1]						MONITORING REQUIREMENTS	
	Mass Units (lbs/day)		Concentrations (mg/l)[3]			[4]	
Discharge[2] Parameter	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
Flow (mgd)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	From 6.0 to 9.0 inclusive					2/month	Grab
Total Suspended Solids	XXX	XXX	Monitor & Report	Monitor & Report	XXX	2/month	Grab
Temperature (10/1-3/31)	XXX	XXX	XXX	110° F	XXX	Continuous	Recorded
Temperature (4/1-9/30)	XXX	XXX	XXX	115° F	XXX	Continuous	Recorded
Free Available Chlorine	XXX	XXX	XXX	0.2	0.5	(9)	(9)
Total Residual Oxidants (TRO)[8][10]	XXX	XXX	XXX	0.14	0.17	(6)	(6)
Spectrus CT 1300[8]	XXX	XXX	XXX	0.1	0.3	(5)	(5)
Hydrazine	XXX	XXX	XXX	XXX	Not Detectable	(7)	(7)

PART A

B. Footnotes/Additional Requirements/Information

1. The discharge limitations for Outfall 001 were determined using a maximum design effluent discharge rate of 81.02 million gallons per day.

2. In addition to the listed parameters, the discharge of floating solids, visible foam, or other substances which produce color, tastes, odors, turbidity or settle to form deposits shall be controlled.

3. The instantaneous maximum discharge limitations are for compliance use by the Department only. Do not report instantaneous maximums on Discharge Monitoring Reports unless specifically required on those forms to do so.

4. This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

5. Once per week grab sample during chemical addition.

6. Once per week grab sample during chemical addition. Samples shall be taken at Outfall 001. The permittee has the option to perform sampling at the TMI Unit 1 MDCT discharge when Outfall 001 is inaccessible due to inclement weather or when there are personnel safety concerns.

7. Hydrazine shall be analyzed during the discharges due to lay-up of TMI-1 once-through steam generators following plant outages. Samples shall be taken once per week during steam generator drain-down. The testing procedure shall be ASTM-D1385-88 (reapproved 1991).

8. If the concentration of biocide within a closed system is determined by analysis to be less than or equal to the corresponding effluent limitation, then sampling at Outfall 001 will not be required once the system blowdown is released.

9. Once per week grab sample during chemical addition. Free available chlorine limitations and monitoring are applicable only when chlorine compounds (where chlorine is the sole active ingredient) are added to the Circulating Water System or the River Water System. Monitoring may be conducted at the TMI-1 MDCT basin if Outfall 001 is not available.

10. The Total Residual Oxidants (TRO) effluent limitation is applicable when both Sodium Bromide and Sodium Hypochlorite are being used together for biological growth control.

NPDES Permit No. PA 0009920
Page 4

PART A

Internal Monitoring Point

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 101, which receives wastewater from the sewage treatment plant.

1. Numbers in parentheses ( ) refer to Footnotes/Additional Requirements/Information below.

2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s): at discharge from sewage treatment plant.

DISCHARGE LIMITATIONS[1]						MONITORING[6] REQUIREMENTS	
	Mass Units (lbs/day)		Concentrations (mg/l)[3]			[4]	
Discharge[2] Parameter	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
Flow (mgd)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	Continuous	Recorded
Total Suspended Solids	XXX	XXX	30	XXX	60	1/quarter	8-hour Comp
$CBOD_5$	XXX	XXX	25	XXX	50	1/quarter	8-hour Comp
Phosphorus (as P)	XXX	XXX	2.0	XXX	4.0	1/quarter	8-hour Comp
Fecal Coliform (5/1-9/30) [5]	XXX	XXX	200/100 ml	XXX	XXX	1/quarter	Grab
Fecal Coliform (10/1-4/30) [5]	XXX	XXX	2,000/100 ml	XXX	XXX	1/quarter	Grab

B. Footnotes/Additional Requirements/Information

1. The discharge limitations for Outfall 101 were determined using an effluent discharge rate of 0.08 million gallons per day.

2. In addition to the listed parameters, the discharge of floating solids, visible foam, or other substances which produce color, tastes, odors, turbidity or settle to form deposits shall be controlled.

3. The instantaneous maximum discharge limitations are for compliance use by the Department only. Do not report instantaneous maximums on Discharge Monitoring Reports unless specifically required on those forms to do so.

4. This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

5. The permittee shall provide for effective disinfection of this discharge to control disease-producing organisms during the swimming season (May 1 through September 30) to achieve a fecal coliform concentration not greater than 200/100 ml as a geometric average, and not greater than 1,000/100 ml in more than 10 percent of the samples tested. During the period of October 1 through April 30 the fecal coliform concentration shall not exceed 2,000/100 ml as a geometric average.

6. To remain eligible for monitoring reductions, the permittee may not have any significant noncompliance violations for effluent limitations of the parameters for which reductions have been granted, or failure to submit DMRs, or may not be subject to a new formal enforcement action. If any of the above occurs, the permit will be reopened and amended to reflect the previous monitoring frequencies.

NPDES Permit No. PA 0009920
Page 5

PART A

Internal Monitoring Point

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 401, which receives wastewater from the Industrial Waste Filter System.

1. Numbers in parentheses ( ) refer to Footnotes/Additional Requirements/Information below.

2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s): at discharge from Industrial Waste Filter System.

DISCHARGE LIMITATIONS[1]						MONITORING[5] REQUIREMENTS	
	Mass Units (lbs/day)		Concentrations (mg/l)[3]			[4]	
Discharge[2] Parameter	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
Flow (mgd)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	From 6.0 to 9.0 inclusive					1/quarter	Grab
Total Suspended Solids	XXX	XXX	30	100	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	15	20	30	1/quarter	Grab

B. Footnotes/Additional Requirements/Information

1. The discharge limitations for Outfall 401 were determined using an effluent discharge rate of 0.3 million gallons per day.

2. In addition to the listed parameters, the discharge of floating solids, visible foam, or other substances which produce color, tastes, odors, turbidity or settle to form deposits shall be controlled.

3. The instantaneous maximum discharge limitations are for compliance use by the Department only. Do not report instantaneous maximums on Discharge Monitoring Reports unless specifically required on those forms to do so.

4. This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

5. To remain eligible for monitoring reductions, the permittee may not have any significant noncompliance violations for effluent limitations of the parameters for which reductions have been granted, or failure to submit DMRs, or may not be subject to a new formal enforcement action. If any of the above occurs, the permit will be reopened and amended to reflect the previous monitoring frequencies.

NPDES Permit No. PA 0009920
Page 6

PART A

Internal Monitoring Point

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 501, which receives wastewater from Unit 1 Secondary Neutralizer Tank.

1. Numbers in parentheses ( ) refer to Footnotes/Additional Requirements/Information below.

2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s): at discharge from Unit 1 Secondary Neutralizer Tank or from the mixed tank prior to release.

DISCHARGE LIMITATIONS[1]						MONITORING[5] REQUIREMENTS	
	Mass Units (lbs/day)		Concentrations (mg/l)[3]			[4]	
Discharge[2] Parameter	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
Flow (mgd)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	2/month	Calculated
pH (S.U.)	From 6.0 to 9.0 inclusive					2/month	Grab
Total Suspended Solids	XXX	XXX	30	100	XXX	2/month	Grab
Oil and Grease	XXX	XXX	15	20	30	1/quarter	Grab

B. Footnotes/Additional Requirements/Information

1. The discharge limitations for Outfall 501 were determined using an effluent discharge rate of 0.3 million gallons per day.

2. In addition to the listed parameters, the discharge of floating solids, visible foam, or other substances which produce color, tastes, odors, turbidity or settle to form deposits shall be controlled.

3. The instantaneous maximum discharge limitations are for compliance use by the Department only. Do not report instantaneous maximums on Discharge Monitoring Reports unless specifically required on those forms to do so.

4. This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

5. To remain eligible for monitoring reductions, the permittee may not have any significant noncompliance violations for effluent limitations of the parameters for which reductions have been granted, or failure to submit DMRs, or may not be subject to a new formal enforcement action. If any of the above occurs, the permit will be reopened and amended to reflect the previous monitoring frequencies.

NPDES Permit No. PA 0009920
Page 7

PART A

Internal Monitoring Point

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 701, which receives wastewater from the Industrial Waste Treatment System.

1. *Numbers in parentheses ( ) refer to Footnotes/Additional Requirements/Information below.*

2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s): at discharge from the Industrial Waste Treatment System.

DISCHARGE LIMITATIONS[1]						MONITORING[5] REQUIREMENTS	
	Mass Units (lbs/day)		Concentrations (mg/l)[3]			[4]	
Discharge[2] Parameter	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
Flow (mgd)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	From 6.0 to 9.0 inclusive					2/month	Grab
Total Suspended Solids	XXX	XXX	30	100	XXX	2/month	Grab
Oil and Grease	XXX	XXX	15	20	30	1/quarter	Grab

B. Footnotes/Additional Requirements/Information

1. The discharge limitations for Outfall 701 were determined using an effluent discharge rate of 0.3 million gallons per day.

2. In addition to the listed parameters, the discharge of floating solids, visible foam, or other substances which produce color, tastes, odors, turbidity or settle to form deposits shall be controlled.

3. The instantaneous maximum discharge limitations are for compliance use by the Department only. Do not report instantaneous maximums on Discharge Monitoring Reports unless specifically required on those forms to do so.

4. This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

5. To remain eligible for monitoring reductions, the permittee may not have any significant noncompliance violations for effluent limitations of the parameters for which reductions have been granted, or failure to submit DMRs, or may not be subject to a new formal enforcement action. If any of the above occurs, the permit will be reopened and amended to reflect the previous monitoring frequencies.

NPDES Permit No. PA 0009920
Page 8

PART A

LAT: 40°09'10"
LONG: 76°43'40"

1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 003, emergency discharge from Unit 1, in the event Outfall 001 becomes blocked.

1. Numbers in parentheses ( ) refer to Footnotes/Additional Requirements/Information on page 9.

2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s): at Outfall 003, unless otherwise noted below.

DISCHARGE LIMITATIONS[1]						MONITORING [5] REQUIREMENTS	
	Mass Units (lbs/day)		Concentrations (mg/l)[3]			[4]	
Discharge[2] Parameter	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
Flow (mgd)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	1/day	Estimated
pH (S.U.)	From 6.0 to 9.0 inclusive					2/month	Grab
Total Suspended Solids	XXX	XXX	Monitor & Report	Monitor & Report	XXX	2/month	Grab
Temperature (10/1-3/31)	XXX	XXX	XXX	110° F	XXX	1/shift	i-s
Temperature (4/1-9/30)	XXX	XXX	XXX	115° F	XXX	1/shift	i-s
Free Available Chlorine	XXX	XXX	XXX	0.2	0.5	(10)	(10)
Total Residual Oxidants (TRO)[9][11]	XXX	XXX	XXX	0.14	0.17	(7)	(7)
Spectrus CT 1300[9]	XXX	XXX	XXX	0.1	0.3	(6)	(6)
Hydrazine	XXX	XXX	XXX	XXX	Not Detectable	(8)	(8)

PART A

B. Footnotes/Additional Requirements/Information

1. The discharge limitations for Outfall 003 were determined using a maximum design effluent discharge rate of 81.02 million gallons per day.

2. In addition to the listed parameters, the discharge of floating solids, visible foam, or other substances which produce color, tastes, odors, turbidity or settle to form deposits shall be controlled.

3. The instantaneous maximum discharge limitations are for compliance use by the Department only. Do not report instantaneous maximums on Discharge Monitoring Reports unless specifically required on those forms to do so.

4. This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

5. Only when discharging.

6. Once per week grab sample during chemical addition.

7. Once per week grab sample during chemical addition. Samples shall be taken at Outfall 003. The permittee has the option to perform sampling at the TMI Unit 1 MDCT basin if Outfall 003 is inaccessible due to inclement weather or when there are personnel safety concerns.

8. Hydrazine shall be analyzed during the discharges due to lay-up of TMI-1 once-through steam generators following plant outages. Samples shall be taken once per week during steam generator drain-down. The testing procedure shall be ASTM-D1385-88 (reapproved 1991).

9. If the concentration of biocide within a closed system is determined by analysis to be less than or equal to the corresponding effluent limitation, then sampling at Outfall 003 will not be required once the system blowdown is released.

10. Once per week grab sample during chemical addition. Free available chlorine limitations and monitoring are applicable only when chlorine compounds (where chlorine is the sole active ingredient) are added to the Circulating Water System or the River Water System. Monitoring may be conducted at the TMI-1 MDCT basin if Outfall 003 is not available.

11. The Total Residual Oxidants (TRO) effluent limitation is applicable when both Sodium Bromide and Sodium Hypochlorite are being used together for biological growth control.

NPDES Permit No. PA 0009920
Page 10

PART A

LAT: 40°09'10"
LONG: 76°43'18"

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 004, emergency discharge from Unit 1, in the event Unit 1 Mechanical Draft Cooling Tower becomes blocked.

1. Numbers in parentheses ( ) refer to Footnotes/Additional Requirements/Information on page 11.

2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s): at outfall 004.

DISCHARGE LIMITATIONS[1]						MONITORING [5] REQUIREMENTS	
	Mass Units (lbs/day)		Concentrations (mg/l)[3]			[4]	
Discharge[2] Parameter	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
Flow (mgd)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	1/day	Estimated
pH (S.U.)	From 6.0 to 9.0 inclusive					2/month	Grab
Total Suspended Solids	XXX	XXX	Monitor & Report	Monitor & Report	XXX	2/month	Grab
Temperature	XXX	XXX	XXX	Monitor & Report	XXX	1/shift	i-s
Free Available Chlorine	XXX	XXX	XXX	0.2	0.5	(9)	(9)
Total Residual Oxidants (TRO)[8X10]	XXX	XXX	XXX	0.14	0.17	(6)	(6)
Spectrus CT 1300 [8]	XXX	XXX	XXX	0.1	0.3	(6)	(6)
Hydrazine	XXX	XXX	XXX	XXX	Not Detectable	(7)	(7)

PART A

B. Footnotes/Additional Requirements/Information

1. The discharge limitations for Outfall 004 were determined using a maximum design effluent discharge rate of 81.02 million gallons per day.

2. In addition to the listed parameters, the discharge of floating solids, visible foam, or other substances which produce color, tastes, odors, turbidity or settle to form deposits shall be controlled.

3. The instantaneous maximum discharge limitations are for compliance use by the Department only. Do not report instantaneous maximums on Discharge Monitoring Reports unless specifically required on those forms to do so.

4. This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

5. Only when discharging.

6. Once per week grab sample during chemical addition.

7. Hydrazine shall be analyzed during the discharges due to lay-up of TMI-1 once-through steam generators following plant outages. Samples shall be taken once per week during steam generator drain-down. The testing procedure shall be ASTM-D1385-88 (reapproved 1991).

8. If the concentration of biocide within a closed system is determined by analysis to be less than or equal to the corresponding effluent limitation, then sampling at Outfall 004 will not be required once the system blowdown is released.

9. Once per week grab sample during chemical addition. Free available chlorine limitations and monitoring are applicable only when chlorine compounds (where chlorine is the sole active ingredient) are added to the Circulating Water System or the River Water System.

10. The Total Residual Oxidants (TRO) effluent limitation is applicable when both Sodium Bromide and Sodium Hypochlorite are being used together for biological growth control.

NPDES Permit No. PA 0009920
Page 12

PART A

LAT: 40°09'06"
LONG: 76°43'18"

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 005B, which receives wastewater from screen house desilting; dewatering of Unit 1 Natural Draft Cooling Towers; fire brigade training; fuel oil off-loading station; industrial cooler maintenance; emergency diesel generator building floor drains; and operation of the east dike settling basin drain valve.

1. Numbers in parentheses ( ) refer to Footnotes/Additional Requirements/Information below.

2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s): at Outfall 005B.

DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
Discharge[1] Parameter	Mass Units (lbs/day)		Concentrations (mg/l)[2]			(3)	
	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
Flow (mgd)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	1/month	Estimated
pH (S.U.)	From 6.0 to 9.0 inclusive					2/month	Grab
Total Suspended Solids	XXX	XXX	30	100	XXX	2/month	Grab
Oil and Grease	XXX	XXX	15	20	30	2/month	Grab

B. Footnotes/Additional Requirements/Information

1. In addition to the listed parameters, the discharge of floating solids, visible foam, or other substances which produce color, tastes, odors, turbidity or settle to form deposits shall be controlled.

2. The instantaneous maximum discharge limitations are for compliance use by the Department only. Do not report instantaneous maximums on Discharge Monitoring Reports unless specifically required on those forms to do so.

3. This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

NPDES Permit No. PA 0009920
Page 13

PART A

LAT: 40°09'16"
LONG: 76°43'41"

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 006, which receives wastewater from intake screen wash and sluice water; the intake pump strainer backwash; and the intake chlorinator building floor drain.

DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
	Mass Units (lbs/day)		Concentrations (mg/l)				
Discharge Parameter	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
	No discharge limitations are necessary. All debris collected on the intake screens shall be collected and not discharged back to the river.						

PART A

B. Monitoring Requirements for Stormwater Outfalls 005A, SO1, SO2, SO3, SO4 [1]

	MONITORING REQUIREMENTS	
Parameter	Grab Sample (mg/l)	Monitor Frequency [2]
5-day CBOD	Monitor & Report	1/year
Chemical Oxygen Demand	Monitor & Report	1/year
Total Suspended Solids	Monitor & Report	1/year
Total Phosphorus	Monitor & Report	1/year
Total Kjeldahl Nitrogen	Monitor & Report	1/year
Dissolved Iron	Monitor & Report	1/year
Oil and Grease	Monitor & Report	1/year
pH (S.U.)	Monitor & Report	1/year

Supplemental Footnotes:

(1) See PART C - "REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS" for further conditions and instructions.

(2) An annual inspection may be performed in lieu of monitoring. Detailed records shall be made and kept available on the site at all times.

PART A

II. DEFINITIONS

A. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

B. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

C. "Daily discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

D. "Average" refers to the use of an arithmetic mean, unless otherwise specified in this permit.

E. "Geometric Average (mean)" means the average of a set of n sample results given by the nth root of their product.

F. "Average monthly" discharge limitation means the highest allowable average of "daily discharge" over a calendar month, calculated as the sum of all "daily discharge" measured during a calendar month divided by the number of "daily discharge" measured during that month.

G. "Average weekly" discharge limitation means the highest allowable average of "daily discharge" over a calendar week, calculated as the sum of all "daily discharge" measured during a calendar week divided by the number of "daily discharge" measured during that week.

H. "Maximum daily" discharge limitation means the highest allowable "daily discharge."

I. "Maximum any time (instantaneous maximum)" means the level not to be exceeded at any time in any grab sample.

J. "Composite Sample" (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters each obtained at spaced time intervals during the compositing period. The composite must be "flow-proportional", which means either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite.

"Composite Sample for GC/MS volatile organic analysis" consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). The samples must be combined in the laboratory immediately before analysis and then one analysis is performed.

K. "Grab Sample" means an individual sample of at least 100 milliliters collected at a randomly selected time over a period not to exceed 15 minutes.

L. "i-s" means immersion stabilization - in which a calibrated device is immersed in the wastewater until the reading is stabilized.

PART A

M. The "Daily Average" temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

N. "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

O. "At outfall XXX" means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line XXX, or where otherwise specified.

P. "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters, and batch discharge volumes.

Q. "Noncontact cooling water" means water used to reduce temperature which does not come in direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

R. "Toxic Pollutant" means any pollutant listed as toxic under Section 307(a)(l) of the Clean Water Act.

S. "Hazardous substance" means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act.

T. "Publicly Owned Treatment Works (POTW)" means a facility, as defined by Section 212 of the Clean Water Act, which is owned by a State or Municipality, as defined by Section 502(4) of the Clean Water Act, including any sewers that convey wastewater to such a treatment works, but not including pipes, sewers or other conveyances not connected to a facility providing treatment. The term also means the municipality, as defined in Section 502(4) of the Clean Water Act, which has jurisdiction over the indirect discharges to and the discharges from such a treatment works.

U. "Industrial User" means an establishment that discharges or introduces industrial wastes into a Publicly Owned Treatment Works (POTW).

V. "Total Dissolved Solids" means the total dissolved (filterable) solids as determined by use of the method specified in 40 CFR Part 136.

W. "Stormwater associated with industrial activity" means the discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing, or raw materials storage areas as defined at 40 CFR Part 122.26(b)(14).

X. "Stormwater" means stormwater runoff, snowmelt runoff, and surface runoff and drainage.

Y. "Best Management Practices (BMPs)" means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of "waters of the United States." BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

PART A

III. SELF-MONITORING, REPORTING, AND RECORDS KEEPING

A. Representative Sampling

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. Records Retention

Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least five years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for three years from the date of the sample measurement, report, or application. The three-year period shall be extended as requested by the Department or the EPA Regional Administrator.

3. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The exact place, date, and time of sampling or measurements.

b. The person(s) who performed the sampling or measurements.

c. The date(s) the analyses were performed.

d. The person(s) who performed the analyses.

e. The analytical techniques or methods used; and the associated detection level.

f. The results of such analyses.

4. Test Procedures

Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 PA. C.S. §§ 4101-4113) relating to environmental laboratory accreditation.

Unless otherwise specified in this permit, the test procedures for the analysis of pollutants shall be those contained in 40 CFR Part 136 (or in the case of sludge use or disposal, approved under 40 CFR Part 136, unless otherwise specified in 40 CFR Part 503), or alternate test procedures approved pursuant to those parts, unless other test procedures have been specified in the permit.

5. Quality/Assurance/Control

In an effort to assure accurate self-monitoring analyses results:

a. Permittee or its designated laboratory shall participate in the periodic scheduled quality assurance inspections conducted by the Department and the Environmental Protection Agency.

PART A

b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136.

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit.

2. Unless instructed otherwise in PART C of this permit, a properly completed DMR must be submitted to the following address within 28 days after the end of each monthly report period:

Department of Environmental Protection
Water Management Program
Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, PA 17110-8200

3. The completed DMR Form shall be signed and certified either by the following applicable person, as defined in 40 CFR Part 122.22(a), or by that person's duly authorized representative, as defined in 40 CFR Part 122.22(b):

- For a corporation - by a responsible corporate officer.
- For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
- For a municipality, state, federal or other public agency - by a principle executive officer or ranking elected official.

If signed by other than the above, written notification of delegation of DMR signatory authority must be submitted to the Department in advance of or along with the relevant DMR form.

4. If the permittee monitors any pollutant, using analytical methods described in PART A III.A.4 herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.

C. Reporting Requirements

1. Planned Changes - The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

a. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to either the effluent limitations in the permit, or the toxic substance notification requirements of PART A III.D herein.

PART A

b. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

c. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR Part 122.29(b).

2. Anticipated Noncompliance

The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

3. Unanticipated Noncompliance or Potential Pollution Reporting

a. The permittee shall report any noncompliance or incidents causing or threatening pollution pursuant to 25 Pa. Code § 91.33 immediately, if possible, but in no case later than 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

b. The following shall be included as information that must be reported within 24 hours under this paragraph:

(1) Any unanticipated bypass that exceeds any effluent limitation in the permit.

(2) Any upset which exceeds or has the potential to exceed any effluent limitation in the permit.

(3) Violation of a maximum daily discharge limitation for any of the pollutants listed in the permit.

c. The Department may waive the written report on a case-by-case basis for reports under paragraph C.3.a of this section if the oral report has been received within 24 hours.

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.3 of this section, at the time DMRs are submitted. The reports shall contain the information listed in paragraph C.3 of this section.

5. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit the correct and complete facts or information.

PART A

D. Specific Toxic Pollutant Notification Levels (for Manufacturing, Commercial, Mining, and Silvicultural Direct Dischargers) - The permittee shall notify the Department as soon as it knows or has reason to believe the following:

1. That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels."

   a. One hundred micrograms per liter.

   b. Two hundred micrograms per liter for acrolein and acrylonitrile.

   c. Five hundred micrograms per liter for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol.

   d. One milligram per liter for antimony.

   e. Five times the maximum concentration value reported for that pollutant in the permit application.

   f. Any other notification level established by the Department.

2. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   a. Five hundred micrograms per liter.

   b. One milligram per liter for antimony.

   c. Ten times the maximum concentration value reported for that pollutant in the permit application.

   d. Any other notification level established by the Department.

PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance Schedules

1. The permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit.

2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline.

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with 25 Pa. Code Chapter 92.

2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

3. In the absence of a Departmental action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions.

C. Duty to Provide Information

1. The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.

2. The permittee shall furnish to the Department, upon request, copies of records required to be kept by this permit.

3. Where the permittee is a Publicly Owned Treatment Works (POTW), the permittee shall provide the following information in the POTW's annual Wasteload Management Report, required under the provisions of 25 Pa. Code Chapter 94.

a. Any new introduction of pollutants into the POTW from an Industrial User which would be subject to Sections 301 and 306 of the Clean Water Act if it were otherwise discharging directly into waters of the United States.

b. Any substantial change in the volume or character of pollutants being introduced into the POTW by an Industrial User that was discharging into the POTW at the time of issuance of this permit.

c. Any interference, pass-through, upsets, or permit violations that may be attributed to an Industrial User and actions taken to alleviate such events.

PART B

d. The identity of Significant Industrial Users served by the POTW which are subject to pretreatment standards adopted under Section 307(b) of the Clean Water Act; the character and volume of pollutants discharged into the POTW by the Significant Industrial User.

D. Facilities Operation

The permittee shall at all times maintain in good working order and properly operate and maintain all facilities and systems which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit.

The permittee shall develop, install, and maintain Best Management Practices to control or abate the discharge of pollutants when the practices are reasonably necessary to achieve the effluent limitations and standards in this permit or to carry out the purposes and intent of the Clean Water Act, or when required to do so by the Department.

E. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

F. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be violated, but only if the bypass is essential for maintenance to assure efficient operation. This type of bypassing is not subject to the reporting and notification requirements of PART A III.C.

2. Other Bypassing - In all other situations, bypassing is prohibited unless all of the following conditions are met:

   a. A bypass is unavoidable to prevent loss of life, personal injury, or "severe property damage."

   b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed (in the exercise of reasonable engineering judgment) to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance.

   c. The permittee submitted the necessary reports required under PART A III.C.

PART B

II. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative, and/or criminal penalties as set forth in 40 CFR Part 122.41(a)(2).

Any person or municipality who violates any provision of this permit; any rule, regulation, or order of the Department; or any condition or limitation of any permit issued pursuant to The Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603, and 605 of The Clean Streams Law.

B. Falsifying Information

The Clean Water Act provides that any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or
- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance),

shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 40 CFR Part 122.41(j)(5) and (k)(2).

C. Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603, or 605 of The Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under the Clean Water Act and The Clean Streams Law.

D. Enforcement Proceedings

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and 25 Pa. Code Chapter 92, the permittee shall allow the Secretary of the Department, the EPA Regional Administrator, and/or their authorized representatives, upon the presentation of credentials and other documents as may be required by law:

PART B

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. To have access to and copy at reasonable times any records that must be kept under the conditions of this permit;

3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and

4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or The Clean Streams Law, any substances or parameters at any location.

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer date in paragraph 2.b of this section;

   b. The notice includes the appropriate Department transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

   c. If the Department does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b of this section.

3. In the event the Department does not approve transfer of the permit, the new owner or controller must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.

D. Other Laws

The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations.

PART C

I. OTHER REQUIREMENTS

A. Waterborne releases of radioactive materials to unrestricted areas shall conform to criteria set forth in Title 10 Code of Federal Regulations Part 50 Appendix I - Numerical Guides for Design Objectives and Limiting Conditions for Operation to meet the Criterion "As low as is reasonably achievable" for radioactive material in light-water-cooled nuclear reactor effluents, as implemented through the Off-Site Dose Calculation Manual for the facility.

The facility operator shall provide the Department with copies of reports specifying the quantities of radioactive materials released to unrestricted areas in liquid/gaseous effluents.

The facility operator shall provide the Department with copies of reports of the results of environmental surveillance activities and other such reports as necessary for the estimation of the dose consequential to facility operation.

The above reports are to be forwarded to the Department of Environmental Protection, Bureau of Radiation Protection.

B. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid as determined by EPA Analysis Method 608 GC/ECD.

C. The discharge may not change the temperature of the receiving stream by more than 2° F in any one hour.

D. Neither free available chlorine nor total residual chlorine from cooling water systems may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Department that the units in a particular location cannot operate at or below this level of chlorination.

E. In accordance with Best Professional Judgment and PADEP Guidance on Intake Structure Design, Location, Operation, and Maintenance, the TMI facility has been determined to be Best Technology Available for compliance with the Clean Water Act.

F. Sodium hypochlorite and sodium bromide as measured by Total Residual Oxidants (TRO) may be added for up to two hours per day to the TMI 1 Circulating Water System.

G. The term maximum daily concentration as it relates to chlorine discharge means the average analyses made over a single period of chlorine release which does not exceed two hours.

H. The permittee shall notify the Department within two working days after discharging from Outfalls 003 or 004 stating the composition of the discharge and the reason for discharging.

I. If the number of discharges for an outfall is less than the required monitoring frequency for that outfall, then the required monitoring frequency will be equal to the number of discharges for that outfall.

J. This permit is of interest to the U.S. Environmental Protection Agency (EPA) because it meets one or more of the following criteria:

1. POTW with a design hydraulic flow of one mgd or more.

2. POTW with a pretreatment requirement.

PART C

3. POTW or Industrial Waste discharger with biomonitoring requirements.

4. Industrial Waste discharger not waived for review by the EPA/DEP Memorandum of Agreement.

A copy of the DMR shall be submitted to the EPA at the following address:

NPDES Discharge Monitoring Reports (3WP42)
Water Protection Division
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

K. In the event that a continuous flow or temperature instrument is out of service for longer than 24 hours, the Department shall be notified within 24 hours and the instrument shall be repaired as soon as reasonably possible. A temporary estimation or calculation method must be used and records kept available for Department review. The data collected while the instrument is out of service shall be used in preparation of the DMRs.

II. REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS

A. Prohibition of Nonstormwater Discharges

1. Except as provided in A.2, all stormwater outfalls shall be composed entirely of stormwater.

2. The following nonstormwater discharges may be authorized, provided the nonstormwater component of the discharge is in compliance with C.2.b: discharges from fire fighting activities; fire hydrant flushings, potable water sources including waterline flushings, irrigation drainage, lawn watering, routine external building washdown which does not use detergents or other compounds, pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used, air conditioning condensate, springs, uncontaminated groundwater, and foundation or footing drains where flows are not contaminated with process materials such as solvents.

B. Spills

This permit does not authorize the discharge of any toxic or hazardous substances or oil resulting from an on-site spill.

C. Preparedness, Prevention and Contingency Plans

1. Development of Plan

Operators of facilities shall have developed a Preparedness, Prevention and Contingency (PPC) Plan in accordance with 25 Pa. Code § 91.34 and the "Guidelines for the Development and Implementation of Environmental Emergency Response Plans". The PPC Plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges associated with industrial activity from the facility. In addition, the PPC Plan shall describe the implementation of practices that are to be used to reduce the pollutants in stormwater discharges associated with industrial activity at the facility ensuring compliance with the terms and conditions of this permit.

PART C

2. Nonstormwater Discharges

   a. The PPC Plan shall contain a certification that the discharge has been tested or evaluated for the presence of nonstormwater discharges. The certification shall include the identification of potential significant sources of nonstormwater at the site, a description of the results of any test and/or evaluation for the presence of nonstormwater discharges, the evaluation criteria or testing methods used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test. Such certification may not be feasible if the facility operating the stormwater discharge associated with industrial activity does not have access to an outfall, manhole, or other point of access to the ultimate conduit that receives the discharge. In such cases, the source identification section of the PPC Plan shall indicate why the certification was not feasible. A discharger that is unable to provide the certification must notify the Department within 180 days of the effective date of this permit.

   b. Except for flows from fire fighting activities, sources of nonstormwater listed in A.2. (authorized nonstormwater discharges) that are combined with stormwater discharges associated with industrial activity must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the nonstormwater component(s) of the discharge.

3. Special Requirements for SARA Title III, Section 313 Facilities

   a. Facilities subject to SARA Title III, Section 313 shall include in the PPC Plan a description of releases to land or water of Section 313 water priority chemicals that have occurred within the last three years. Each of the following shall be evaluated for the reasonable potential for contributing pollutants to runoff: loading and unloading operations, outdoor storage activities, outdoor manufacturing or processing activities, significant dust or particulate generating process, and on-site waste disposal practices. Factors to consider include the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with stormwater; and history of significant leaks or spills of toxic or hazardous pollutants.

   b. Engineering Certification. No stormwater PPC Plan for facilities subject to SARA Title III, Section 313 requirements for chemicals that are classified as "Section 313 water priority chemicals" shall be effective unless it has been reviewed by a Registered Professional Engineer and certified to by such Professional Engineer. A Registered Professional Engineer shall recertify the PPC Plan every year thereafter. This certification may be combined with the required annual certification in C.4. By means of these certifications, the engineer, having examined the facility and being familiar with the provisions of this part, shall attest that the stormwater PPC Plan has been prepared in accordance with good engineering practices. Such certification shall in no way relieve the owner or operator of a facility covered by the PPC Plan of the duty to prepare and fully implement such Plan.

4. Comprehensive Site Compliance Evaluations and Record Keeping

   Qualified personnel shall conduct site compliance evaluations at appropriate intervals specified in the plan, but, in no case less than once a year. Such evaluations shall provide:

PART C

a. Areas contributing to a stormwater discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural stormwater management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made.

b. Based on the results of the inspection, the description of potential pollutant sources identified in the PPC plan, and pollution prevention measures and controls identified in the plan shall be revised as appropriate within 15 days of such inspection and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than 90 days after the inspection.

D. Stormwater Sampling and Reporting

1. All samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inches) storm event.

2. When the discharger is unable to collect samples due to adverse climatic conditions, the discharger must submit, in lieu of sampling data, a description of why samples could not be collected, including available documentation of the event. This sampling waiver may not be used more than once during a two-year period.

3. Grab samples shall be collected during the first 30 minutes of the discharge.

4. Stormwater monitoring results shall be summarized on a DMR form and the Department's "Additional Information for the Reporting of Stormwater Monitoring" form.

5. When a facility has two or more outfalls that may reasonably be believed to discharge substantially identical effluents, based on a consideration of features and activities within the area drained by the outfall, the permittee may sample one such outfall and report that the quantitative data also applies to the substantially identical outfalls.

6. The following table describes the outfall locations and drainage areas.

Outfall No.	Acreage	Latitude	Longitude
005A	115.5	40°09'06"	76°43'18"
SO1	16.6	40°08'58"	76°43'19"
SO2	11.9	40°08'53"	76°43'19"
SO3	21.5	40°08'45"	76°43'21"
SO4	0.7	40°09'15"	76°43'41"

PART C

III. CONTROLLING CHEMICAL ADDITIVES USAGE RATES

A. Chemical additives to control corrosion, scaling, algae, slime, fouling, oxygen, etc., and blow down discharge rates shall be managed by the permittee to ensure that toxic effects in the receiving stream are prevented. Usage rates shall be limited to the minimum amount necessary to accomplish the intended purposes of chemical addition and to comply with the effluent limitations contained in Part A of this permit. Approval is limited to chemicals and usage rates contained in the application and in previous approval letters.

B. The additives currently approved are the following:

Ammonium Hydroxide Solution	GE Betz Depositrol PY 5203
GE Betz Inhibitor AZ 8103	GE Betz Depositrol PY 5204
GE Betz Inhibitor AZ 8100	GE Betz Depositrol SF 502
GE Betz Spectrus CT 1300	GE Betz Flogard MS 6208
GE Betz Spectrus DT 1400	GE Betz Flogard MS 6209
GE Betz Spectrus NX 1106	GE Betz HPC 19M
GE Betz Spectrus OX 1201	Hydrazine
GE Betz Steamate PWR 0160	Hydrogen Peroxide
GE Betz Steamate PWR 1440	Lithium Hydroxide
Boric Acid	Sodium Hydroxide
GE Betz Continuum AEC 3107	Sodium Hypochlorite
Chlorine	Sulfuric Acid
GE Betz Cortrol IS 104	Wood Flour
GE Betz Cortrol OS 5010	Zinc Acetate Dihydrate
GE Betz Depositrol PY 5206	Zinc Orthophosphate

C. Whenever a change in additives or increase in usage rates is desired by the permittee (changes in chemical additive vendors need not be submitted as long as the chemical is substantially the same as one previously approved), a written notification in the format specified by the Department, shall be submitted at least 60 days prior to the proposed use of the chemical. For each proposed chemical or usage rate, the written notification, as a minimum, shall include the following:

1. Trade names of additive.
2. Name and address of additive manufacturer.
3. Material Safety Data Sheet (MSDS) or other available information on mammalian or aquatic toxicological effects.
4. Bioassay data including the 96-hour LC50 on the whole product.
5. Proposed average and maximum additive usage rates in lbs/day.
6. A flow diagram showing the point of chemical addition and the affected outfalls.
7. The expected concentration of the product at the final outfall.
8. The product density for liquids (lbs/gal) used to convert usage rate (gpd) to in-system concentrations (mg/l).

PART C

9. The analytical test method that could be used to verify final discharge concentrations when the product is in use and the associated minimum analytical detection level (mg/l).

10. Conditioned water discharge rate (blowdown rate) and duration (hours).

11. Available data on the degradation of or decomposition of the additive in the aquatic environment.

12. Any other data or information the permittee believes would be helpful to the Department in completing its review.

D. Use of products or chemicals that contain one or more ingredients that are carcinogens is generally prohibited. Before proposing limited use of such products or chemicals, the permittee must first thoroughly investigate use of alternate products or chemicals to avoid the use of the carcinogens. If no suitable alternatives are available, the permittee must submit written documentation as part of the information required above, that demonstrates to the satisfaction of the Department that no suitable alternatives are available and that any carcinogen in the proposed chemical or product will not be detectable in the final effluent using the most sensitive analytical method available.

E. Accurate records of usage (name of additive, quantity added, date added) of any approved chemical additive and of blow down discharge volumes must be maintained and kept on-site by the permittee. All correspondence and notifications related to the chemical additives usage rates must also be kept on-site with the required daily chemical usage records. If the notification is incomplete or the Department notifies the permittee that the proposed usage rate will cause violations of water quality standards, then use of the requested chemical additive or requested change in its usage rate will be denied.

F. Based on the information presented, the Department will determine within 60 days whether the existing NPDES permit must be amended to include specific effluent limitations for active ingredients or other control measures. When so required, the permittee will be advised within 60 days that a formal request for a permit amendment is required including a filing fee and Act 14 notices.

If a permit amendment application is not requested within 60 days, the permittee may proceed with the use of the proposed chemical additive or usage rate.

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL 001			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

FACILITY Main Station Outfall
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	ANALYSIS	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		FREQUENCY	TYPE
Flow	SAMPLE MEASUREMENT				XXX	XXX	XXX				
	PERMIT REQUIREMENT	Report Avg Mo	Report Max Daily	MGD	XXX	XXX	XXX	X	X	Continuous	Recorded
pH	SAMPLE MEASUREMENT	XXX	XXX			XXX					
	PERMIT REQUIREMENT	XXX	XXX	X	6.0 Minimum	XXX	9.0 Maximum	S.U.	X	2/month	Grab
Total Suspended Solids	SAMPLE MEASUREMENT	XXX	XXX		XXX						
	PERMIT REQUIREMENT	XXX	XXX	X	XXX	Report Avg Mo	Report Max Daily	mg/l	X	2/month	Grab
Temperature (10/1 to 3/31)	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	110 Max Daily	°F	X	Continuous	Recorded
Temperature (4/1 to 9/30)	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	115 Max Daily	°F	X	Continuous	Recorded
Free Available Chlorine	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	0.2 Max Daily	mg/l	X	(1)	(1)
Total Residual Oxidants (TRO)	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	0.14 Max Daily	mg/l	X	(1)	(1)
Betz Spectrus CT 1300	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	0.1 Max Daily	mg/l	X	(1)	(1)
Hydrazine	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	Not Detectable l-max	mg/l	X	(1)	(1)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

		TELEPHONE		DATE		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

(1) Once per week grab samples during chemical addition. Refer to Permit for further explanation.

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

FACILITY Sewage Treatment Plant
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL 101			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO	ANALYSIS	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	FREQUENCY	TYPE
FLOW	SAMPLE MEASUREMENT				XXX	XXX	XXX				
	PERMIT REQUIREMENT	Report Avg Mo	Report Max Daily	MGD	XXX	XXX	XXX	XXX	X	Continuous	Recorded
FECAL COLIFORM (5/1 to 9/30)	SAMPLE MEASUREMENT	XXX	XXX		XXX		XXX				
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	200 30 Day Geo	XXX	No. 100 ml	X	1/quarter	Grab
FECAL COLIFORM (10/1 to 4/30)	SAMPLE MEASUREMENT	XXX	XXX		XXX		XXX				
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	2,000 30 Day Geo	XXX	No. 100 ml	X	1/quarter	Grab
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT	XXX	XXX		XXX		XXX				
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	30 Avg Mo	XXX	mg/l	X	1/quarter	8-hr comp
5-DAY CBOD	SAMPLE MEASUREMENT	XXX	XXX		XXX		XXX				
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	25 Avg Mo	XXX	mg/l	X	1/quarter	8-hr comp
TOTAL PHOSPHORUS	SAMPLE MEASUREMENT	XXX	XXX		XXX		XXX				
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	2.0 Avg Mo	XXX	mg/l	X	1/quarter	8-hr comp

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		TELEPHONE		DATE		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL 401			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

FACILITY Industrial Waste Filter System
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO	ANALYSIS	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	FREQUENCY	TYPE
FLOW	SAMPLE MEASUREMENT			MGD	XXX	XXX	XXX	XXX	X	Continuous	Recorded
	PERMIT REQUIREMENT	Report Avg Mo	Report Max Daily		XXX	XXX	XXX				
pH	SAMPLE MEASUREMENT	XXX	XXX	XXX		XXX		S.U.	X	1/quarter	Grab
	PERMIT REQUIREMENT	XXX	XXX		6.0 Minimum	XXX	9.0 Maximum				
TSS	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX			mg/l	X	1/quarter	Grab
	PERMIT REQUIREMENT	XXX	XXX		XXX	30 Avg Mo	100 Max Daily				
OIL AND GREASE	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX			mg/l	X	1/quarter	Grab
	PERMIT REQUIREMENT	XXX	XXX		XXX	15 Avg Mo	20 Max Daily				

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		TELEPHONE		DATE		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL 501			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

FACILITY Unit 1 Secondary Neutralizer Tank
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO	ANALYSIS	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	FREQUENCY	TYPE
FLOW	SAMPLE MEASUREMENT			MGD	XXX	XXX	XXX	XXX			
	PERMIT REQUIREMENT	Report Avg Mo	Report Max Daily		XXX	XXX	XXX		X	2/month	Calc.
pH	SAMPLE MEASUREMENT	XXX	XXX	XXX		XXX		S.U.			
	PERMIT REQUIREMENT	XXX	XXX		6.0 Minimum	XXX	9.0 Maximum		X	2/month	Grab
TSS	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX			mg/l			
	PERMIT REQUIREMENT	XXX	XXX		XXX	30 Avg Mo	100 Max Daily		X	2/month	Grab
Oil and Grease	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX			mg/l			
	PERMIT REQUIREMENT	XXX	XXX		XXX	15 Avg Mo	20 Max Daily		X	1/quarter	Grab

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		TELEPHONE		DATE		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

FACILITY Industrial Waste Treatment System
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL 701			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO	ANALYSIS	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	FREQUENCY	TYPE
	SAMPLE MEASUREMENT				XXX	XXX	XXX				
FLOW	PERMIT REQUIREMENT	Report Avg Mo	Report Max Daily	MGD	XXX	XXX	XXX	XXX	X	Continuous	Recorded
	SAMPLE MEASUREMENT	XXX	XXX			XXX					
pH	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Minimum	XXX	9.0 Maximum	S.U.	X	2/month	Grab
	SAMPLE MEASUREMENT	XXX	XXX		XXX						
TSS	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	30 Avg Mo	100 Max Daily	mg/l	X	2/month	Grab
	SAMPLE MEASUREMENT	XXX	XXX		XXX						
Oil and Grease	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	15 Avg Mo	20 Max Daily	mg/l	X	1/quarter	Grab

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		TELEPHONE		DATE		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL 003			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

FACILITY Emergency Discharge (001 blockage)
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO EX	ANALYSIS FREQUENCY	SAMPLE TYPE
	SAMPLE MEASUREMENT				XXX	XXX	XXX				
Flow	PERMIT REQUIREMENT	Report Avg Mo	Report Max Daily	MGD	XXX	XXX	XXX	X	X	1/day	Estimated
	SAMPLE MEASUREMENT	XXX	XXX			XXX					
pH	PERMIT REQUIREMENT	XXX	XXX	X	6.0 Minimum	XXX	9.0 Maximum	S.U.	X	2/month	Grab
Total Suspended Solids	SAMPLE MEASUREMENT	XXX	XXX		XXX						
	PERMIT REQUIREMENT	XXX	XXX	X	XXX	Report Avg Mo	Report Max Daily	mg/l	X	2/month	Grab
	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
Temperature (10/1 to 3/31)	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	110 Max Daily	°F	X	1/shift	"i-s"
	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
Temperature (4/1 to 9/30)	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	115 Max Daily	°F	X	1/shift	"i-s"
	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
Free Available Chlorine	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	0.2 Max Daily	mg/l	X	(1)	(1)
	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
Total Residual Oxidants (TRO)	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	0.14 Max Daily	mg/l	X	(1)	(1)
	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
Betz Spectrus CT 1300	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	0.1 Max Daily	mg/l	X	(1)	(1)
	SAMPLE MEASUREMENT	XXX	XXX		XXX	XXX					
Hydrazine	PERMIT REQUIREMENT	XXX	XXX	X	XXX	XXX	Not Detect-able I-max	mg/l	X	(1)	(1)

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	TELEPHONE AREA CODE	TELEPHONE NUMBER	DATE YEAR	DATE MO	DATE DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

(1) Once per week grab samples during chemical addition. Refer to Permit for further explanation.

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920					OUTFALL 004		
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

FACILITY Emergency Discharge (MDCT blockage)
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO	ANALYSIS	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	FREQUENCY	TYPE
Flow	SAMPLE MEASUREMENT			MGD	XXX	XXX	XXX	X	X	1/day	Estimated
	PERMIT REQUIREMENT	Report Avg Mo	Report Max Daily		XXX	XXX	XXX				
pH	SAMPLE MEASUREMENT	XXX	XXX	X		XXX		S.U.	X	2/month	Grab
	PERMIT REQUIREMENT	XXX	XXX		6.0 Minimum	XXX	9.0 Maximum				
Total Suspended Solids	SAMPLE MEASUREMENT	XXX	XXX	X	XXX			mg/l	X	2/month	Grab
	PERMIT REQUIREMENT	XXX	XXX		XXX	Report Avg Mo	Report Max Daily				
Temperature	SAMPLE MEASUREMENT	XXX	XXX	X	XXX	XXX		°F	X	1/shift	"i-s"
	PERMIT REQUIREMENT	XXX	XXX		XXX	XXX	Report Max Daily				
Free Available Chlorine	SAMPLE MEASUREMENT	XXX	XXX	X	XXX	XXX		mg/l	X	(1)	(1)
	PERMIT REQUIREMENT	XXX	XXX		XXX	XXX	0.2 Max Daily				
Total Residual *Oxidants (TRO)*	SAMPLE MEASUREMENT	XXX	XXX	X	XXX	XXX		mg/l	X	(1)	(1)
	PERMIT REQUIREMENT	XXX	XXX		XXX	XXX	0.14 Max Daily				
Betz Spectrus CT 1300	SAMPLE MEASUREMENT	XXX	XXX	X	XXX	XXX		mg/l	X	(1)	(1)
	PERMIT REQUIREMENT	XXX	XXX		XXX	XXX	0.1 Max Daily				
Hydrazine	SAMPLE MEASUREMENT	XXX	XXX	X	XXX	XXX		mg/l	X	(1)	(1)
	PERMIT REQUIREMENT	XXX	XXX		XXX	XXX	Not Detect-able l-max				

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		TELEPHONE		DATE		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO.	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

(1) Once per week grab samples during chemical addition. Refer to Permit for further explanation.

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

FACILITY Storm Water
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL 005A			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUALITY OR CONCENTRATION			NO EX	ANALYSIS FREQUENCY	SAMPLE TYPE
		COMPOSITE	GRAB	UNITS			
	SAMPLE MEASUREMENT	XXX					
Oil and Grease	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
	SAMPLE MEASUREMENT	XXX					
pH	PERMIT REQUIREMENT	XXX	Monitor & Report	S.U.	X	1/year	Grab
	SAMPLE MEASUREMENT	XXX					
5-DAY CBOD	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
CHEMICAL OXYGEN DEMAND	SAMPLE MEASUREMENT	XXX					
	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT	XXX					
	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
TOTAL KJELDAHL NITROGEN	SAMPLE MEASUREMENT	XXX					
	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
	SAMPLE MEASUREMENT	XXX					
TOTAL PHOSPHORUS	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
	SAMPLE MEASUREMENT	XXX					
IRON, DISSOLVED	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	TELEPHONE		DATE		
		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

FACILITY Miscellaneous Industrial Wastewater
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL 005B			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO	ANALYSIS	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	FREQUENCY	TYPE
FLOW	SAMPLE MEASUREMENT			MGD	XXX	XXX	XXX	XXX	X	1/month	Est.
	PERMIT REQUIREMENT	Report Avg Mo	Report Max Daily		XXX	XXX	XXX				
pH	SAMPLE MEASUREMENT	XXX	XXX	XXX		XXX		S.U.	X	2/month	Grab
	PERMIT REQUIREMENT	XXX	XXX		6.0 Minimum	XXX	9.0 Maximum				
TSS	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX			mg/l	X	2/month	Grab
	PERMIT REQUIREMENT	XXX	XXX		XXX	30 Avg Mo	100 Max Daily				
Oil and Grease	SAMPLE MEASUREMENT	XXX	XXX	XXX	XXX			mg/l	X	2/month	Grab
	PERMIT REQUIREMENT	XXX	XXX		XXX	15 Avg Mo	20 Max Daily				

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		TELEPHONE		DATE		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL SO1			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

FACILITY Storm Water
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUALITY OR CONCENTRATION COMPOSITE	QUALITY OR CONCENTRATION GRAB	QUALITY OR CONCENTRATION UNITS	NO EX	ANALYSIS FREQUENCY	SAMPLE TYPE
Oil and Grease	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
pH	SAMPLE MEASUREMENT	XXX		S.U.			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
5-DAY CBOD	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
CHEMICAL OXYGEN DEMAND	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
TOTAL KJELDAHL NITROGEN	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
TOTAL PHOSPHORUS	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
IRON, DISSOLVED	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	TELEPHONE AREA CODE	TELEPHONE NUMBER	DATE YEAR	DATE MO	DATE DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL SO2			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

FACILITY Storm Water
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUALITY OR CONCENTRATION			NO EX	ANALYSIS FREQUENCY	SAMPLE TYPE
		COMPOSITE	GRAB	UNITS			
Oil and Grease	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
pH	SAMPLE MEASUREMENT	XXX		S.U.			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
5-DAY CBOD	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
CHEMICAL OXYGEN DEMAND	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
TOTAL KJELDAHL NITROGEN	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
TOTAL PHOSPHORUS	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
IRON, DISSOLVED	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	TELEPHONE AREA CODE	TELEPHONE NUMBER	DATE YEAR	DATE MO	DATE DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

FACILITY Storm Water
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL SO3			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUALITY OR CONCENTRATION			NO EX	ANALYSIS FREQUENCY	SAMPLE TYPE
		COMPOSITE	GRAB	UNITS			
	SAMPLE MEASUREMENT	XXX					
Oil and Grease	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
	SAMPLE MEASUREMENT	XXX					
pH	PERMIT REQUIREMENT	XXX	Monitor & Report	S.U.	X	1/year	Grab
	SAMPLE MEASUREMENT	XXX					
5-DAY CBOD	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
CHEMICAL OXYGEN DEMAND	SAMPLE MEASUREMENT	XXX					
	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT	XXX					
	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
TOTAL KJELDAHL NITROGEN	SAMPLE MEASUREMENT	XXX					
	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
TOTAL PHOSPHORUS	SAMPLE MEASUREMENT	XXX					
	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab
IRON, DISSOLVED	SAMPLE MEASUREMENT	XXX					
	PERMIT REQUIREMENT	XXX	Monitor & Report	mg/l	X	1/year	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	TELEPHONE		DATE		
		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

NAME AmerGen Energy Company, LLC
ADDRESS Route 441 South
PO Box 480
Middletown, PA 17057-0480

FACILITY Storm Water
LOCATION Londonderry Township, Dauphin County
WATERSHED 7-G

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT

PA 0009920				OUTFALL SO4			
MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM:				TO:			

PAGE 1 OF 1

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUALITY OR CONCENTRATION COMPOSITE	QUALITY OR CONCENTRATION GRAB	UNITS	NO EX	ANALYSIS FREQUENCY	SAMPLE TYPE
Oil and Grease	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
pH	SAMPLE MEASUREMENT	XXX		S.U.			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
5-DAY CBOD	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
CHEMICAL OXYGEN DEMAND	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
TOTAL KJELDAHL NITROGEN	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
TOTAL PHOSPHORUS	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab
IRON, DISSOLVED	SAMPLE MEASUREMENT	XXX		mg/l			
	PERMIT REQUIREMENT	XXX	Monitor & Report		X	1/year	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPE OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENT	TELEPHONE AREA CODE	TELEPHONE NUMBER	DATE YEAR	DATE MO	DATE DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (PLEASE USE SEPARATE SHEET OF PAPER IF NECESSARY).

DISHARGE MONITORING REPORT SUPPLEMENTAL FORM (W) *For the MONTH* _____ 20____

AmerGen Energy Co., LLC (TMI Nuclear Station) **7-G Watershed**

Londonderry Township, Dauphin County

Renewal application **DUE DATE** is **APRIL 30, 2012.**
This permit will **EXPIRE** on **OCTOBER 31, 2012.**

DAY	Flow	pH	TSS	Temp	Cl_2 Free	Total Residual Oxidants (TRO)	Spectrus CT 1300	Hydrazine	Comments
	MGD	*S.U.*	*mg/l*	*°F*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	
1									
2									
3									
4									
5									
6									
7									
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29									
30									
31									
Avg									

Laboratory Name: _____ In house? _____ Signature _____

NPDES Permit **PA 0009920** for Outfall 001 Telephone: (_____) _____

DISCHARGE MONITORING REPORT SUPPLEMENTAL FORM (W)
AmerGen Energy Co., LLC (TMI Nuclear Station) 7-G Watershed
Londonderry Township, Dauphin County

For the MONTH _____ 20____

Renewal application **DUE DATE** is **APRIL 30, 2012.**
This permit will **EXPIRE** on **OCTOBER 31, 2012.**

DAY	Outfall 501				Outfall 701				Outfall 005B				
	Flow	pH	TSS	O&G	Flow	pH	TSS	O&G	Flow	pH	TSS	O&G	Comments
	MGD	*SU*	*mg/l*	*mg/l*	*MGD*	*mg/l*	*mg/l*	*mg/l*	*MGD*	*mg/l*	*mg/l*	*mg/l*	
1													
2													
3													
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30													
31													
Avg													

Laboratory Name: _____ In house? _____ Signature _____

NPDES Permit **PA 0009920** for Outfalls 501, 701, and 005B Telephone: (_____) _____

Page 2

SCFO Form 09/94

Non-Compliance Discharge Report - NPDES Permit **PA (PERMIT #)**

AmerGen Energy Co., LLC (TMI Nuclear Station) **7-G Watershed**
Londonderry Township, Dauphin County

1. A non-compliance discharge of _____
   occurred on this (these) dates: _____

2. The impact on the receiving water was (circle those that apply): 1. **Foam** 2. **Sheen** 3. **Discoloration** 4. **Odors** 5. **Solids deposited** 6. **Fishkill**
   7. **Did not determine** 8. **Other** (describe): _____

3. The cause of the non-compliance discharge was: _____
   _____

4. The non-compliance discharge continued from the period of (date) _____ and (time) _____
   to (date) _____ and (time) _____ or will continue until (date) _____
   and (time) _____

5. The following action is being taken to **prevent** a recurrence or another non-compliance discharge of this nature: _____
   _____
   _____
   _____

6. The following analyses were made to determine the impact and the extent of the impact upon the receiving waters (effluent, stream, other): _____
   _____
   _____
   _____

7. The Department of Environmental Protection was notified of the non-compliance on (date) _____ at (time) _____
   The person(s) contacted was (were): _____

Signature _____ Title _____ Date _____

Page 3

DMR MUNI 05 ---

Discharge Monitoring Reports & Supplemental Report Forms
(Instructions and helpful hints for their completion)

Please find attached your Discharge Monitoring Report (DMR) and Supplemental Report forms. These forms are used in the self-monitoring program as required by your NPDES permit. You should make copies of these forms for your use. The reporting period is generally a calendar month. Your reports must be received by the 28th day of the following month. Please see that all treatment facility personnel are aware of the permit and DMR form. We seek your assistance in preventing errors and reporting mistakes.

DISCHARGE MONITORING REPORTS (DMRs)

- Inspect the form and contact us immediately if you find errors or omissions. Do not change or add information yourself.
- Complete all blocks where we have listed an entry under Permit Condition. This includes the FREQUENCY OF ANALYSIS and SAMPLE TYPE columns. Do not complete any other blocks.
- Make sure your reports are neat and legible. Submit original DMR, signed in ink to DEP.
- Report in the same significant figures as shown on Effluent Limitations, Monitoring, Recordkeeping, and Reporting Requirements page.
- Report in the same units shown on the DMR.
- List the number of times a particular permit condition has been exceeded under the NO EX column. This would include daily, weekly, and monthly limitations. If there were none for that month, enter zero (0). This does not apply to flow.
- If there was no discharge for a particular outfall, a DMR must still be submitted. Write "NO DISCHARGE" on the FLOW line or on the first parameter line if FLOW is not listed.
- If a particular parameter is conditional on other parameters (such as FLOW or TEMPERATURE), it may not always be reportable. If this is the case, write "NO DISCHARGE" on that parameter line and provide an explanation.
- If you have **quantity** limits (loadings) listed on the DMR, you will need to calculate the **quantity** in lb/day. To do this, use the following formula:

  mg/l (concentration) **x MGD** (Flow) **x 8.34 lb/gal = lb/day**

- The monthly average lb/day is the sum of all the daily lb/day results divided by the number of days you sampled. Do not use monthly average flow and monthly average concentration in the above formula.
- All effluent samples taken using approved methods must be recorded on the Supplemental form and reported on the DMR.
- For every day you sample the effluent, you should record the sample result for that day. The discharge flow should be recorded in million gal/day for that day, (a 24-hour period). Use these figures to calculate the lb/day in the formula above.
- Use > (greater than), < (less than) - the method detection limit to report results that are above or below the detection limit and cannot be quantified. Use the method detection limit for calculating loadings if values are less than detection limit.

Page 4

SUPPLEMENTAL FORMS

A Water/Wastewater calculator is available on the Department's Water/Wastewater information site at:

http://www.dep.state.pa.us/dep/deputate/waterops/index.htm

Enter the site and click on: Water/Wastewater Calculators.

Supplemental Form (W)

This form is used for many industrial dischargers and in conjunction with Supplemental Form (S) for some sewage facilities. The column headings in Form (W) are matched to individual permit requirements.

- **Flow.** Report in million gallons (MG). For example: 13,000 gallons = 0.013 MG; 7,500 gallons = 0.0075 MG; 540 gallons = 0.00054 MG; if no flow, indicate by printing "NO FLOW".
- **Total Suspended Solids (TSS).** Report TSS concentration (mg/l) and quantity (lb/day).
- **pH.** Record the pH of the effluent.
- Report effluent parameters at least as often as specified in the permit. Report any influent and process control data as you perform them.
- You may use a computer-generated report for the Supplemental DMR only. Please use the same format as ours. Please contact this office concerning use of your own forms.
- Indicate any outside laboratory use at the bottom of the form. Mark with an **X** if all of the testing is done in-house at your facility.
- Please do **not** send laboratory report forms from your testing laboratory. Do not send your bench sheet or other records, which should be kept at your facility.
- There are a great number of possible column headings for Form (W). Let us know if the abbreviations used are not clear.

We ask that you call us immediately in the event of any equipment breakdown, chemical spill, or shock loading to your influent. Call us also if operational problems result in a failure to achieve your treatment requirements. This includes treatment facility bypasses, pump station failures, and collection system overflows. Violations of effluent limitations for toxic constituents should also be reported. A written report should follow within five (5) days of the event. Refer to your permit for a complete description of the monitoring and reporting responsibilities.

NON-COMPLIANCE DISCHARGE REPORT FORM

Included with the DMR Supplemental Form is a Non-Compliance Discharge Report Form. This form, when properly completed, will suffice as the five-day letter as required in the permit. The following sections must be completed:

1. Describe what was discharged (sludge, raw influent, bypass, etc.) and the date(s) the non-compliance occurred.
2. Circle the applicable stream effects, or describe any unlisted impacts.
3. Explain the cause of the non-compliance. Use the reverse side of the paper or attach additional pages as necessary.
4. Fill in the date(s) and time(s) of the event. Indicate when the event will cease.
5. List here what has been done to reduce, eliminate, and prevent a recurrence of the non-complying discharge.
6. List here any special analyses performed and/or field tests conducted on the discharge and/or stream.
7. When and who did you notify of the non-complying discharge.
8. Your signature and title.

If you should have any questions, please contact the Water Quality Specialist who inspects your facility. The Specialists can be reached at:

Southcentral Field Office: 717-705-4707

Adams	Fulton	Lancaster (Western)	York
Cumberland	Huntingdon (Eastern)	Lebanon	
Dauphin	Juniata	Mifflin	
Franklin	Lancaster (Eastern)	Perry	

Altoona District Office: 814-946-7290

Bedford	Blair	Huntingdon (Western)

Reading District Office: 610-916-0100

Berks

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

ANNUAL INSPECTION FORM FOR NPDES PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES

Who May Use This Form

This form is to be used by permit holders to comply with the: 1) annual inspection requirement when available as an option to monitoring, and 2) Comprehensive Site Compliance Evaluations and Record Keeping in PART C REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS.

Completing the Form

One form must be completed for each facility or site. Please address all applicable questions and provide documentation to support the responses.

The Annual Inspection shall include visual inspection of all outfalls and a Comprehensive Site Compliance Evaluation. Complete items 10 through 15 for each outfall inspected. Where possible, visual inspection shall identify substances present in the sediment. The Annual Inspection/Certification must identify area(s) contributing pollutant(s) to stormwater discharges(s) and evaluate whether measures to reduce pollutant loadings identified in the PPC Plan are adequate and properly implemented in accordance with terms of the permit or whether additional control measures are necessary. Any deficiencies found during the inspection are to be corrected promptly in accordance with the Comprehensive Site Compliance Evaluations and Record Keeping requirements.

Where to File This Form

When an Annual Inspection is conducted in lieu of monitoring, the permittee shall submit a completed and signed *Annual Inspection Form*, postmarked no later than 28 days after completion of the inspection to the appropriate DEP regional office. All other permittees shall retain the completed and signed form as part of the PPC plan.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

ANNUAL INSPECTION FORM FOR NPDES PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES

1. Date of Inspection _____	2. Facility Owner/Operator Name and Address: _____ _____ _____ Tel: _____ Fax: _____
3. NPDES Permit #PA _____	
4. Facility Address and Location Street _____ Municipality _____ County _____	
VISUAL INSPECTION	
Provide the following information for the storm event	
5. Duration _____	
6. Estimation of rainfall (in inches) † _____ † The annual inspection should be conducted after a storm event that is greater than 0.1 inches in magnitude and that occurred at least 72 hours from the previous 0.1 inch storm event.	
7. Estimate the time between the previous rain event _____	
8. Estimate the total volume (in gallons) for each outfall and report it in item 9. Volume = C x I A, where C is the runoff coefficient (i.e, 0.9 for paved and 0.5 for unpaved) I is the rainfall amount (in ft), and A is the area (square feet) drained to the outfall inspected (convert from cubic feet to gallons by multiplying by 7.481).	

9. Estimate the size of the drainage area (in square feet) for each outfall.

Outfall #	Drainage Area	% Paved	% Unpaved	Volume in gallons

Complete the following information for each outfall inspected (items 10 through 15)

VISUAL INSPECTION OF OUTFALL NUMBER

10. Description of area(s) that drains to outfall. _____

11. Description of stormwater management practices, erosion and sedimentation control practices, and other structural control measures that are in place to control pollutants from running off-site.

12. Is there visible flow from the pipe? ☐ Yes ☐ No (Go to number 14) Pipe Dia. (inches) _____

a. ODOR: Chemical Musty Sewage Rotten Eggs Other _____
b. COLOR: Clear Red Yellow Brown Other _____
c. CLARITY: Clear Cloudy Opaque Suspended Solids Other _____
d. FLOATABLES: Suds Oily Film Garbage Sewage Other _____
e. DEPOSITS/STAINS: None Oily Sediment Other _____
f. VEGETATION: None Normal Excessive Inhibited Other _____

13. Is there standing water present? ☐ Yes ☐ No (Go to number 16)

a. ODOR: Chemical Musty Sewage Rotten Eggs Other _____
b. COLOR: Clear Red Yellow Brown Other _____
c. CLARITY: Clear Cloudy Opaque Suspended Solids Other _____
d. FLOATABLES: Suds Oily Film Garbage Sewage Other _____
e. DEPOSITS/STAINS: None Oily Sediment Other _____
f. VEGETATION: None Normal Excessive Inhibited Other _____

14. Is there any evidence of or potential for any pollutant being discharged at this outfall? ☐ Yes ☐ No
Describe: _____

If yes, identify substances present in the sediment (if possible). _____

15. Description of corrective measures taken or planned to remove sediments or debris if found during inspection. Please provide a schedule if actions are planned.

COMPREHENSIVE SITE COMPLIANCE EVALUATION

16. Do drainage maps reflect current conditions? ☐ Yes ☐ No

If no, provide your comments.

Comments: _____

17. Based on review of PPC Plan (including Housekeeping Measures), are any changes, corrections or updates necessary? ☐ Yes ☐ No

If yes, provide your comments.

Comments: _____

18. Have you inspected all structural stormwater controls used to implement the PPC Plan to determine if they are adequate? ☐ Yes ☐ No

If no, provide your comments.

Comments: _____

19. Have you inspected the entire site to determine if erosion and sedimentation control measures are adequate? ☐ Yes ☐ No

If no, provide your comments.

Comments: _____

20. Summarize corrective actions/measures completed or planned to correct any deficiencies found as a result of the inspection. Please provide a schedule if actions are planned.

21. Signature of Inspector

Name of Inspector: _____

Date Report Prepared: _____

Signature of Inspector: _____

24. Signature of Owner/Operator of Facility

Name/Title Principal Executive Officer _____ Signature _____ Date _____

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 Pa. C.S. §4904 (relating to unsworn falsification).

3800-PM-WSFR0083t 9/2005
Additional Information

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

ADDITIONAL INFORMATION
FOR THE REPORTING OF STORMWATER DISCHARGE MONITORING

(This form must be completed and submitted with the DMR form for <u>each</u> outfall sampled)

A. PERMITTEE'S NAME:	OUTFALL/DISCHARGE NO.:
FACILITY/LOCATION:	
B. SAMPLED STORM EVENT	
Provide the date of storm event:	Provide the duration (in hours) of storm event:
Estimate rainfall measurements (in inches) of the storm which generated the sample runoff:	Estimate the duration between the storm event sampled and the end of the previous measurement (greater than 0.1 inch rainfall) storm event:
Drainage area and volume of runoff (1) Paved area _____ square feet x 0.9 (estimated runoff coefficient) x rainfall _____ inches x 0.6234 = _____ gallons (2) Unpaved area _____ square feet x 0.5 (estimated runoff coefficient) x rainfall _____ inches x 0.6234 = _____ gallons Total area _____ square feet Total volume of discharge _____ gallons	
C. GRAB SAMPLE METHODOLOGY	
If a grab sample during the first 30 minutes of the discharge was impracticable, and the sample was instead taken during the first hour of the discharge, describe the circumstances:	
D. SAMPLE WAIVER	
If samples could not be collected due to adverse climatic conditions, describe why samples could not be collected. Attach available documentation of the event.	
If monitoring data submitted is being used to represent other substantially identical outfalls, summarize on a drainage area and volume of runoff under item B. above for each outfall.	

State + Local

DEBEVOISE & LIBERMAN
700 SHOREHAM BUILDING
806 15TH STREET, N.W.
WASHINGTON, D. C. 20005
TELEPHONE (202) 393-2080

JAMES B. LIBERMAN
MILAN C. MISKOVSKY
FREDERICK T. SEARLS
JEROME C. MUYS
WILLIAM J. MADDEN, JR.
ALBERT R. SIMONDS, JR.
JOHN P. PROCTOR
PETER J. CONNELL
JOSEPH B. KNOTTS, JR.
ROSS O'DONOGHUE
DAVID E. LINDGREN
J. MICHAEL McGARRY, III
LEONARD W. BELTER
DONALD B. MYERS
NICHOLAS S. REYNOLDS
PATRICIA CONNELL SHAKOW

JOSEPH B. HOBBS
PAUL T. NOWAK, JR.
DONALD K. DANKNER
ROBERTA L. HALLADAY
WILLIAM T. SMITH, JR.
MATTHEW B. VAN HOOK
KENNETH G. HURWITZ
J. DANIEL BERRY *
THOMAS M. DEBEVOISE
COUNSEL

* ADMITTED IN MD. ONLY

December 5, 1977

The Honorable Thomas M. Burke
Environmental Hearing Board
Blackstone Building
First Floor Annex
112 Market Street
Harrisburg, Pennsylvania 17101

Re: Metropolitan Edison Company v. Commonwealth of Pennsylvania, Department of Environmental Resources Docket No. 77-076-B

Dear Mr. Burke:

Enclosed please find a "Request to Withdraw Appeal" in the above-captioned matter. Attached as an Exhibit to the request is a copy of the revised Section 401 Certification reflecting the agreement reached between the parties and which resolves the outstanding issues which are the subject of the above appeal.

Very truly yours,

John P. Proctor

John P. Proctor
Attorney for
Metropolitan Edison Company

JPP/ssg
cc: w/Encl.
Eugene E. Dice, Esq.

COMMONWEALTH OF PENNSYLVANIA
Before The
ENVIRONMENTAL HEARING BOARD

METROPOLITAN EDISON COMPANY	)	
	)	
v.	)	EHB Docket #77-076-B
	)	
DEPARTMENT OF ENVIRONMENTAL RESOURCES	)	

REQUEST TO WITHDRAW APPEAL

AND NOW COMES John P. Proctor, and Debevoise & Liberman, attorneys for Metropolitan Edison Company in the above-captioned docket, and states and requests as set forth hereafter:

1. Attached hereto is a revised Section 401 Certification executed by Frederick A. Marrocco, Chief, Planning Section, Harrisburg Regional Office, on behalf of the Department of Environmental Resources, reflecting the agreement reached between the parties with respect to Metropolitan Edison Company's Three Mile Island Nuclear Generating Station which is the subject of the instant appeal.

2. On the basis of the document referenced in paragraph 1 above and attached hereto, Metropolitan Edison Company requests that its appeal in the above-captioned docket number be marked as withdrawn.

Respectfully submitted,

63.0016.0001.0005
63.0009.0000

Copies to
3 cc GJT
1 cc RMK
1 cc LJ
1 cc JGH
1 cc GRMiller
1 cc chrono
Orig. -file

Room 1002 Health & Welfare Building
Harrisburg, Pennsylvania 17120
(717) 787-9665
November 9, 1977

Mr. Bruce P. Smith
Permits Branch
U.S. Environmental Protection Agency
Sixth and Walnut Streets
Philadelphia, Pennsylvania 19105

EPA Application PA0009920
Metropolitan Edison Company
Three Mile Island Nuclear Station
Londonderry Township
~~Dauphin~~ County

Dear Mr. Smith:

The Commonwealth of Pennsylvania hereby certifies to the following and thus invalidates all past certifications:

1. The Amendments Nos. 1 and 2 issued 12/29/76 and 5/20/77 respectively for the National Pollutant Discharge Elimination System Permit for subject discharger were forwarded to the Commonwealth of Pennsylvania pursuant to the provisions of Section 401 of the Federal Water Pollution Control Act Amendments of 1972.

2. The effluent limitations and other limitations, and monitoring requirements as proposed in the tentative permit amendments submitted for our review:

   a. Assure that the applicant will comply with applicable effluent limitations under Section 301 or 302, standards of performance under Section 306, or prohibition, effluent standards, or pretreatment standards under Section 307 of the FWPCA Amendments of 1972 where they are presently applicable;

   b. Shall become a condition of a Federal NPDES permit pursuant to Section 402 of the FWPCA Amendments.

3. This certification is subject to the following conditions:

   a. That the Permittee complies with Pennsylvania's Clean Streams Law.

   b. That the Permittee complies with Industrial Waste Permits 2270204 and 2272202, and Sewerage Permit 2275419 issued by the Department of Environmental Resources.

c. The following effluent limitations should be imposed:

1. Discharge 101 - Effluent of sewage treatment facilities

Total phosphorus shall not exceed 2 mg/l on an average basis, nor 4 mg/l at any time.

2. Discharge 001 - Combined Mechanical Draft Cooling Tower Blowdown.

a. The permittee shall at all times maintain in good working order and operate the Mechanical Draft Cooling Towers (MDCT's) as efficiently as possible so as to minimize temperature differential between ambient river temperature and the temperature of the discharge; provided, however, the MDCT's may be shut down when in the judgment of the responsible TMINS personnal a combination of atmospheric conditions and river temperature may exist which causes the waste water to be heated as it passes through the MDCT's or ice formation is observed to occur within the MDCT's.

b. The temperature of the discharge shall never exceed a maximum of 87° F, except when the ambient river temperature exceeds 87° F, in which case, the discharge temperature shall not exceed the ambient river temperature; the temperature of the discharge shall not change by more than 5° F during any one hour period.

Ambient river temperature is the temperature of the river upstream of the heated waste discharge. The ambient temperature sampling point should be unaffected by any sources of waste heat. The temperature of the intake water will be considered as ambient river temperature so long as the intake water is unaffected by TMI's or any other nearby heated water discharge.

c. The following temperature limitations shall never be exceeded:

1. During the period November 1 through April 30. the temperature of the discharge shall not exceed 12° F above ambient river temperature.

2. During the period May 1 through October 31, the temperature of the discharge shall not exceed 7° F above ambient river temperature.

3. During plant cooldown operations the temperature of the discharge shall not exceed 12° F above ambient river temperature.

d. At no time shall the discharge exceed the rate of 150 million gallons per day.

e. The Chief of the Operations Section of the Harrisburg Regional Office of the Bureau of Water Quality Management shall be advised by telephone within 24 hours when the MDCT's are shut down for reasons other than those specified in condition 2(a) above and again when tower operation is resumed; shall be notified within 24 hours when the discharge limitations specified in paragraph 2(c) above are exceeded and again when the discharge is in compliance with such limitations; and shall be notified, at least thirty (30) days in advance, whenever possible of all scheduled plant cooldown operations.

f. Within two years after both nuclear reactor units are in commercial operation, the Metropolitan-Edison Company will collect and submit to the Department of Environmental Resources stream data which accurately defines the thermal plume or zone of impact from the TMINS heated waste discharge. As a minimum, thermal plume mapping data collected to meet the Nuclear Regulatory Commission's requirements shall be submitted to the Pennsylvania Department of Environmental Resources.

g. That the Permittee submit to the Pennsylvania Department of Environmental Resources within ninety (90) days of issuance of Amendment No. 1 to the NPDES permit, an application for a new Pennsylvania Water Quality Management permit for the facilities associated with the thermal component of discharge 001.

4. We certify that the final effluent limitations contained herein and in the attached NPDES permit, to the extent that they are not inconsistent with the limitations herein, are those effluent limitations which are required to achieve the federally approved water quality criteria for the receiving stream. We also certify that the compliance schedule therein is reasonable. We do not certify that the applicant for an NPDES permit is now in compliance with our effluent limitations or permit requirements established pursuant to the Clean Streams Law, Act of June 22, 1937, P.L. 1987, as amended, 35 P.S. 691.1 or that such source is discharging in compliance with the terms or conditions of a state permit. Nor do we certify that by attaining the interim standards contained in the NPDES permit that such source will be in compliance with the aforementioned Clean Streams Law and the Rules

and Regulations thereunder. By certifying the final effluent standards and the schedule for compliance to be contained in the NPDES permit, we do not waive our right to prosecute either civilly or criminally all past, present and future violations of our Clean Streams Law and the Rules and Regulations thereunder. Nor do we waive our right to modify final effluent requirements as is necessary to comply with Pennsylvania Law.

5. This certification by the Department may be appealed to the Environmental Hearing Board, First Floor Annex, Blackstone Building, 112 Market Street, Harrisburg, PA (717) 787-3483, by any aggrieved person pursuant to the Act of December 3, 1970, P.L. 834, 71 Pa. Stat. Anno. §510-1 et seq. and the Administrative Agency Law, the Act of June 13, 1945, P.L. 1388, as amended 71 Pa. Stat. Anno. §1710.1 et seq. Appeals must be filed with the Environmental Hearing Board within thirty (30) days of service of this certification unless the appropriate statute provides a different time period. Copies of the appeal form and the Department's regulations governing practice and procedure before the Board may be obtained from the Board.

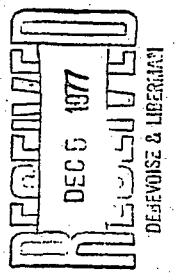
Very truly yours,

Frederick A. Marrocco

Frederick A. Marrocco, Chief
Planning Section
Harrisburg Regional Office

FAM:kew

cc: Metropolitan Edison Company



COMMONWEALTH OF PENNSYLVANIA

P. O. BOX 2351
HARRISBURG 17105

DEPARTMENT OF ENVIRONMENTAL RESOURCES

August 23, 1971

Mr. John G. Miller
Vice President and Chief Engineer
Metropolitan Edison Company
P. O. Box 542
Reading, Pennsylvania 19603

Dear Mr. Miller:

This is in response to your letters of August 31, 1970 and December 21, 1970 requesting certification of reasonable assurance that the Three Mile Island Nuclear Station Units 1 and 2 will not violate applicable water quality standards. We understand that the certification is requested by Metropolitan Edison Company on its own behalf and on behalf of the Jersey Central Power & Light Company and Pennsylvania Electric Company as co-owners and tenants in common.

The following information is provided in accordance with the format included in 18 CFR, Part 615.2, as published in the May 8, 1971 Federal Register.

(a) The applicant is Metropolitan Edison Company, Reading, Pennsylvania, 19603, on its own behalf and on behalf of Jersey Central Power & Light Company and Pennsylvania Electric Company as tenants in common.

(b) The facility is a nuclear powered electric generating station which will result in the production, treatment and discharge of heated waters, water treatment wastes and radioactive wastes. Details on the operation

ATTACHMENT E

of the facility, including the characteristics of raw and treated wastes and the locations of the discharges, are contained in Application No. 22-70-2-04 submitted by the Metropolitan Edison Company. The information in said Application has been examined by the Department of Environmental Resources and the information therein is sufficient to permit the undersigned to make the statement in subparagraph (c) below.

(c) There is reasonable assurance that the proposed activity will be conducted in a manner that will not violate applicable water quality standards.

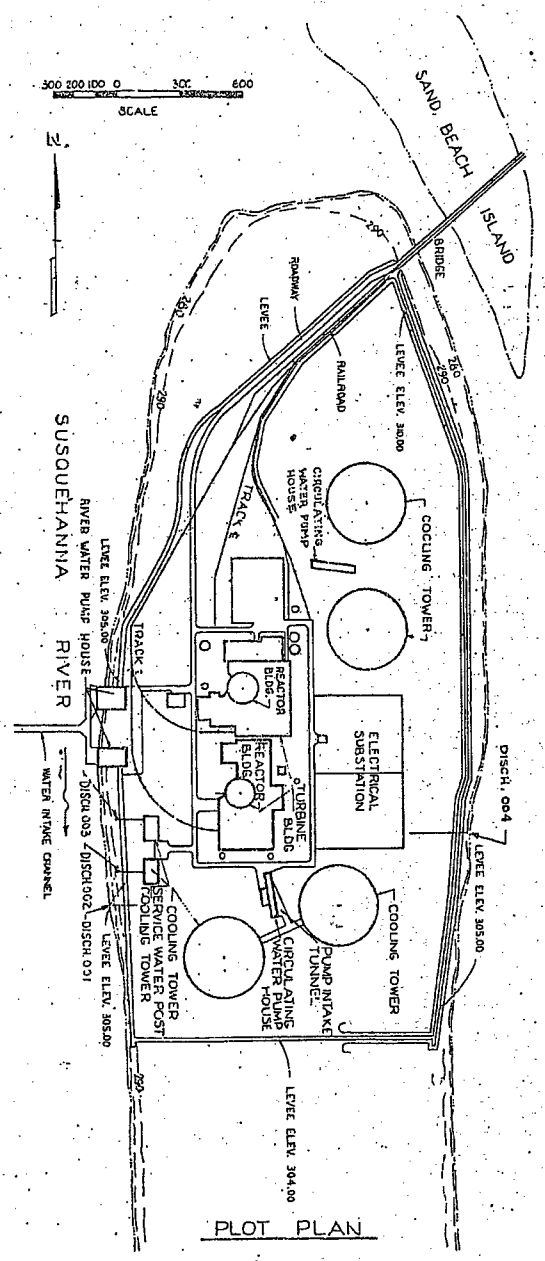
(d) Permit No. 22-70-2-04 issued to the Metropolitan Edison Company contains the conditions applicable to the discharge of wastes from the Three Mile Island Nuclear Station, Units 1 and 2.

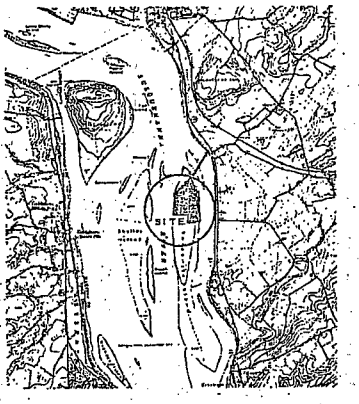
Very truly yours,

Donald A. Lazarchik

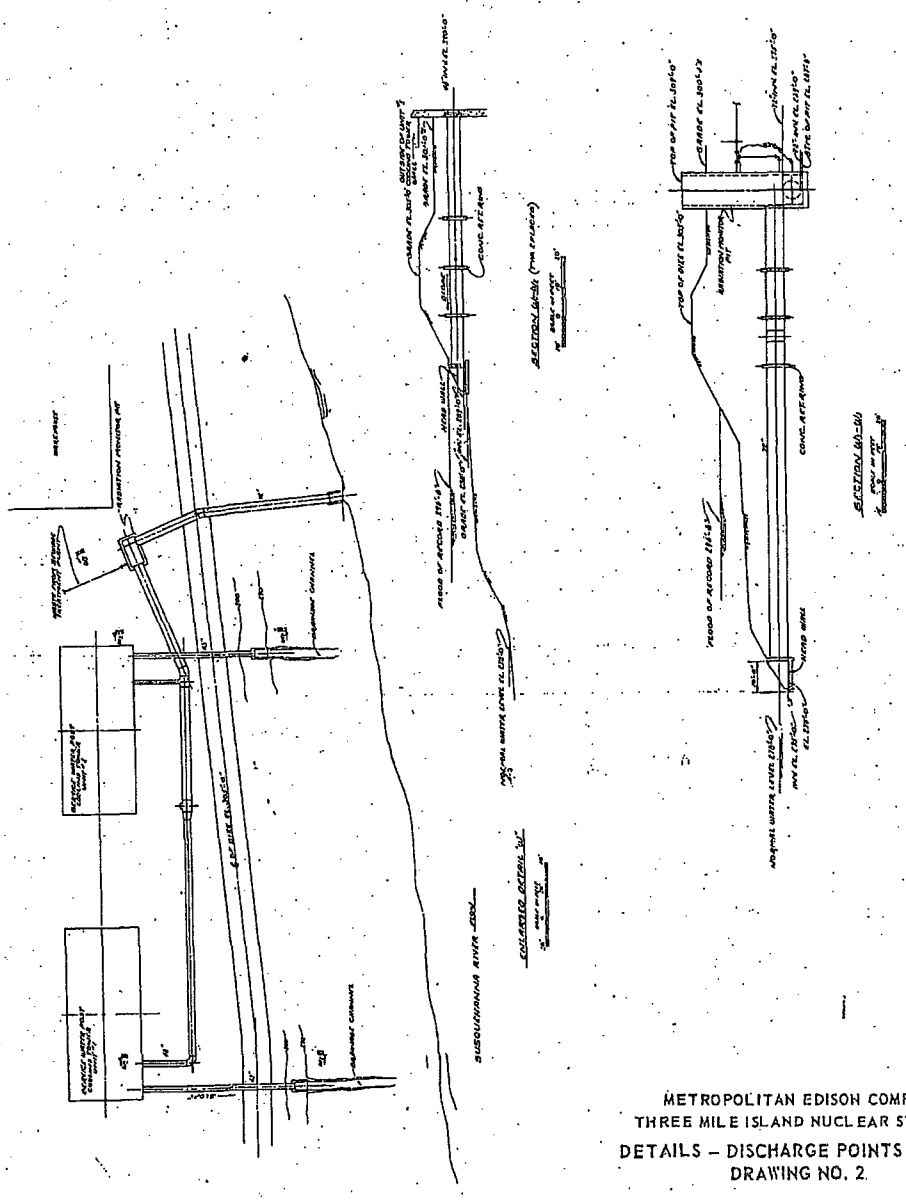
Donald A. Lazarchik
Acting Director
Division of Industrial Wastes

ATTACHMENT E

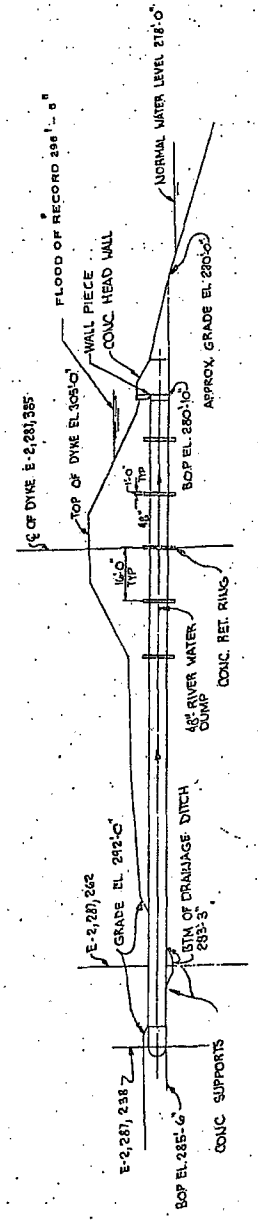




METROPOLITAN EDISON COMPANY
THREE MILE ISLAND NUCLEAR STATION
DISCHARGE LOCATIONS
DRAWING NO. 1



METROPOLITAN EDISON COMPANY
THREE MILE ISLAND NUCLEAR STATION
DETAILS – DISCHARGE POINTS 001–003
DRAWING NO. 2.



SCALE IN FEET
20 0 20 40

NOTE: NATURAL SHORELINE IN THE GENERAL VICINITY OF THE DISCHARGE POINT WILL NOT BE ALTERED.

METROPOLITAN EDISON COMPANY
THREE MILE ISLAND NUCLEAR STATION
DETAILS – DISCHARGE POINT 004
DRAWING NO. 3

Appendix C

Special Status Species Correspondence

Table of Contents

AmerGen
An Exelon Company

Michael P. Gallagher, PE
Vice President
License Renewal Projects

Telephone 610.765.5958
www.exeloncorp.com
michaelp.gallagher@exeloncorp.com

AmerGen
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

May 22, 2007

Ms. Chris Firestone, Native Plant Program Manager
Pennsylvania Department of Conservation and Natural Resources
Bureau of Forestry (Plant Program)
Forest Advisory Services
P O Box 8552
Harrisburg, PA 17105-1673

SUBJECT: Three Mile Island Nuclear Station Unit 1 License Renewal. Request for information on state-listed threatened and endangered species and important habitats (plants).

Dear Ms. Firestone:

AmerGen is preparing an application for 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 for TMI-1 will expire 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, the NRC requires license applicants to "assess the impact of the proposed action on threatened or endangered species in accordance with the Endangered Species Act" (10 CFR 51.53). The NRC will also request an informal consultation with your office at a later date under Section 7 of the Endangered Species Act. By contacting you early in the application process, we hope to identify any issues that we need to address or any information that we should provide to your office to expedite the NRC consultation.

TMI-1 is located on Three Mile Island, in the Susquehanna River, in the Londonderry Township of Dauphin County, Pennsylvania. AmerGen began operations of TMI-1 after its purchase of the facility in 1999. The transmission lines associated with the facility are owned and operated by First Energy Corporation. Four transmission lines connect the station to the regional grid, and are thus relevant to license renewal. The *Final Environmental Statement* for operation prepared in 1972 by the U.S. Atomic Energy Commission identified three 230-kilovolt (kV) transmission lines that were built to connect Unit 1 to the electric grid. Two of these 230-kV lines span northeast approximately 1.4 miles in the same corridor connecting the plant with the substation at Middletown Junction. The third 230-kV line extends for 4.1 miles to the western side of the Susquehanna River connecting with the Jackson Substation near Cly. Subsequent to the publication of the *Final Environmental Statement*, a fourth 230-kV line was also constructed that extends 0.7 miles southeast to the TMI-1 500-kV substation. All of the transmission lines are within 150-foot wide corridors

and are primarily in agricultural or pasture lands that continue to be cultivated. Included is a map of the transmission line system layered over the USGS topographic maps surrounding the TMI-1 facility (see Figure 1). Pennsylvania counties crossed by the transmission lines include Lancaster, Dauphin, and York. AmerGen is not aware of any state-listed plant species at TMI or along the TMI-associated transmission lines, with the exception of the American holly (*Ilex opaca*), which was identified on TMI as part of Exelon's commitment to the environment under the Wildlife Habitat Council program.

A review of the Pennsylvania Natural Heritage Program web site for state-listed endangered or threatened species indicates that numerous state-listed plant species have been recorded in the counties crossed by the transmission lines; however, a large percentage of these plants have been recorded in Lancaster County and TMI-1 transmission lines only cross a very small section of Lancaster County in the extreme western corner (see Figure 1). First Energy maintains the transmission lines and ensures adherence to regulatory requirements regarding sensitive areas that could contain threatened or endangered species as well as state-listed species and works closely with your department to ensure protection of these sensitive areas.

AmerGen is committed to the conservation of significant natural habitats and protected species, and expects that operation of TMI-1, including maintenance of the identified transmission lines, through the license renewal period (an additional 20 years) would not adversely affect any listed species. AmerGen has no plans to alter current operations over the license renewal period. Any maintenance activities necessary to support license renewal would be limited to previously disturbed areas.

In addition, 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. No additional land disturbance is anticipated in support of license renewal.

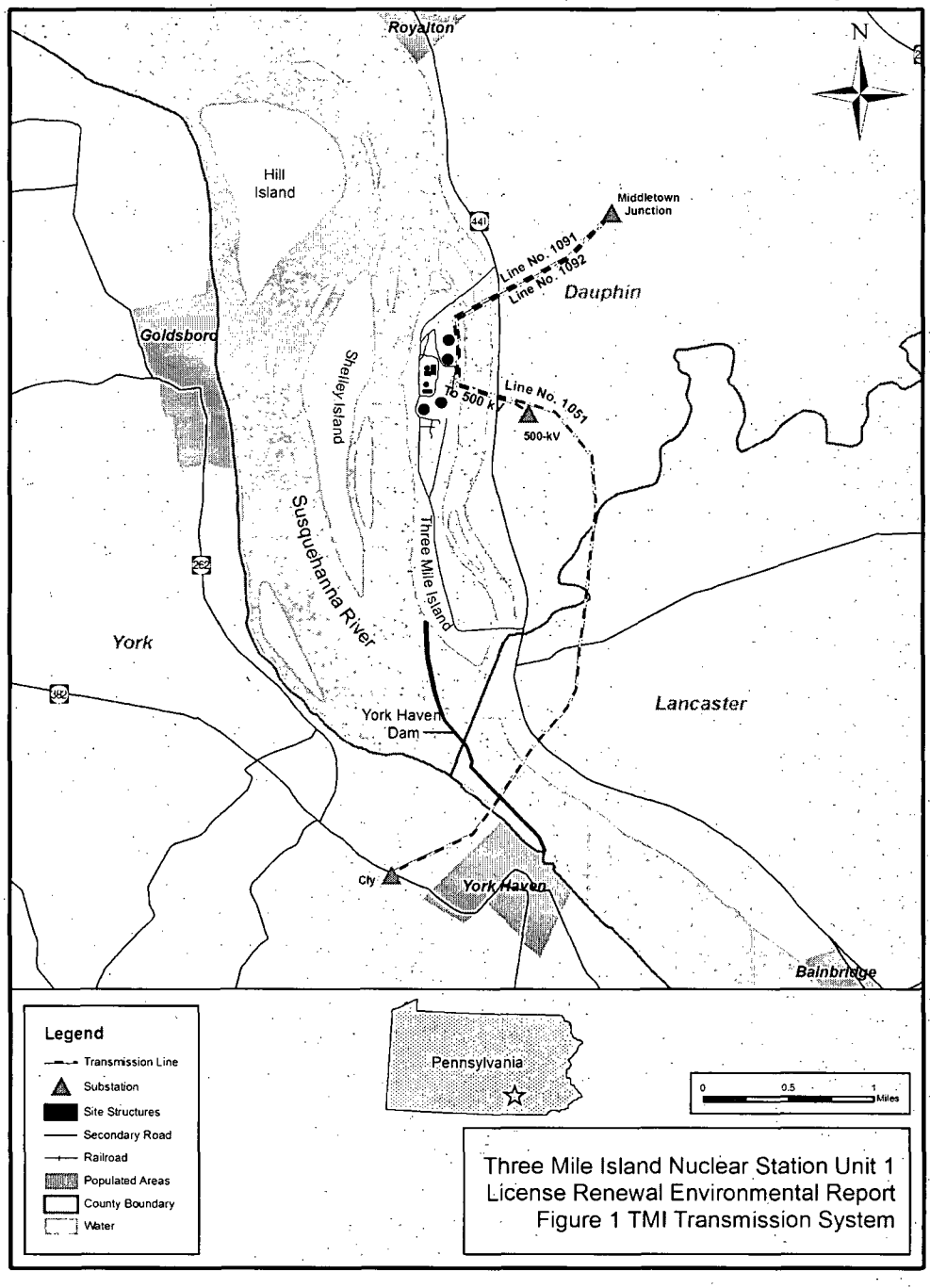
Please call Fred Polaski (610) 765-5935 if you have any questions or require any additional information. After your review, we would appreciate receiving your input by August 17, 2007, detailing any concerns you may have about any listed species or critical habitat in the area, or confirming AmerGen's conclusion that operation of TMI-1 over the license renewal term would have no effect on any threatened or endangered species. 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

Enclosures: Figure 1, TMI-1 Transmission System Map

Figure 1 - TMI-1, Transmission System Map
Page 1 of 1



Pennsylvania Department of Conservation and Natural Resources

Bureau of Forestry June 25, 2007

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

Pennsylvania Natural Diversity Inventory Review, PNDI Number **19248**
Three Mile Island Unit 1 License Renewal Species of Special Concern 1-mile radius
Dauphin & Lancaster Counties

Dear Mr. Gallagher,

This responds to your request about a Pennsylvania Natural Diversity Inventory (PNDI) ER Tool "Potential Impact" or a species of special concern impact review. We screened this project for potential impacts to species and resources of special concern under the Department of Conservation and Natural Resources' responsibility, which includes plants, natural communities, terrestrial invertebrates and geologic features only.

PNDI records indicate that species and communities of special concern under DCNR's jurisdiction are known to occur in the vicinity of the above-mentioned project. **Please see the attached list for species found in the project area. If any earth disturbance is planned or more detailed project information becomes available, please submit this project to our office for further review of potential impacts to the attached species list.**

This response represents the most up-to-date summary of the PNDI data files and is good for one (1) year from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on-site. A field survey of any site may reveal previously unreported populations. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

This finding applies to impacts to plants, natural communities, terrestrial invertebrates and geologic features only. To complete your review of state and federally-listed species of special concern, please be sure the U.S. Fish and Wildlife Service, the PA Game Commission and the Fish and Boat Commission has been contacted regarding this project either directly or by performing a search with the online PNDI ER Tool found at www.naturalheritage.state.pa.us.

Rebecca H. Bowen

Rebecca H. Bowen, Environmental Review Specialist
DCNR/BOF/PNDI, PO Box 8552, Harrisburg, PA 17105 ~ Ph: 717-772-0258 ~ F: 717-772-0271 ~ c-rbowen@state.pa.us

Pennsylvania Department of Conservation and Natural Resources

Bureau of Forestry

June 25, 2007

Pennsylvania Natural Diversity Inventory Review, PNDI Number 19248
Three Mile Island Unit 1 License Renewal Species of Special Concern 1-mile radius
Dauphin & Lancaster Counties

Plant Species of Special Concern

Scientific Name	Common Name	Current Status	Proposed Status	Habitat	Flowering time
Boltonia asteroides	Aster-like Boltonia	PA Endangered	PA Endangered	rocky shores and exposed rocky river beds	flowers July-Oct
Carex shortiana	Sedge	Not Protected	PA Rare	calcareous wet meadows and swamps and rich woods	
Eleocharis compressa	Flat-stemmed Spike-rush	PA Endangered	PA Endangered	wet, sandy ground and river banks	
Ellisia nyctelea	Ellisia	PA Threatened	PA Threatened	damp, shady banks and rich alluvial woods	flowers in May

Butterfly Species of Special Concern

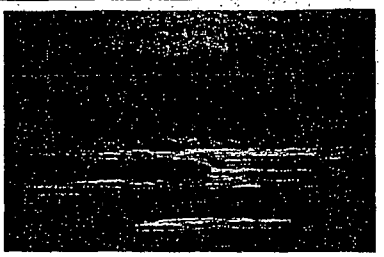
Scientific Name	Common Name	Global Rank	State Rank	Habitat	Larval Host
Lycaena hyllus	Bronze Copper	Globally Secure	Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.	Low wet meadows / marshes, especially in river flood plains. Very large, floppy-flying copper.	Water dock (*Rumex orbiculatus*) and curled dock (*Rumex crispus*)

Geologic Features of Special Concern
Erosional Remnant made up of a series of large potholes in diabase in the bed of the Susquehanna from the Triassic Age is known to exist where the transmission lines cross the river towards York Haven.

Communities of Special Concern
There is also a Riverside Outcrop Community in the vicinity. This community is characterized by semi-permanently or seasonally flooded vegetation of the riverbed, banks and islands. Please find more information on this community type attached.

Community Complexes continued. . .

From: Fike, 1999. Terrestrial + Palustrine Plant Communities of PA.



River bed - bank - flood plain complex. Susquehanna River, Dauphin County. Photograph by Jean Fike.

RIVER BED - BANK - FLOODPLAIN COMPLEX

Community types that characterize this complex*:

Sycamore - (river birch) - box elder floodplain forest
Silver maple floodplain forest
Red maple - elm - willow floodplain swamp
River birch - sycamore floodplain scrub
Black willow scrub/shrub wetland
Riverside ice scour community
Big bluestem - Indian grass river grassland
Water-willow - smartweed riverbed community

(*Note: Examples of this complex will not usually contain all of the community types listed.)

Description:
This complex describes persistent emergent vegetation growing in or along rivers. It includes semi-permanently/seasonally flooded vegetation of the riverbed, banks and islands as well as temporarily flooded and saturated floodplain communities. This landscape is organized by severity and frequency of flooding, ice scour, direction of flow, and differences in substrate. Community types that are inundated for much of the growing season in most years are dominated by herbaceous vegetation (e.g. *Apocynum cannabinum, Justicia americana, Eleocharis* spp., *Cyperus* spp., *Polygonum* spp., *Bidens* spp.). Areas with less extensive periods of inundation, which are scoured by river ice in some years, are dominated by woody vegetation (e.g. *Betula nigra, Salix nigra, Platanus occidentalis*), which is maintained in an early successional stage by ice scour and flooding. Areas that are not subject to ice scour and are periodically inundated but remain dry for the majority of the year, support forest vegetation with a mixture of upland and wetland species. Floodplain sites where floodwaters are retained on site for longer periods of time or where additional hydrologic sources are present may support almost entirely wetland vegetation. Differences in disturbance regime, substrate, and hydrologic regime produces the great structural, community, and species diversity associated with this complex.

The community type with the longest typical period of inundation is the "Water-willow - smartweed riverbed community." This community type occurs on alluvium, mud or on riverbed rock where soil accumulates in crevices. It remains inundated for most of the year, but may become exposed during dry periods. In areas subject to flooding of lesser frequency and duration but still subject to ice scour, a variety of woody and herbaceous community types occur. On sand and gravel bars, and occasionally on rock outcrops with sand and silt accumulating in cracks in the rock, a tall grassland community, with or without scattered woody plants, the "Big bluestem - Indian grass river grassland" may be found. The "Riverside ice scour community" occurs on rock outcrops, and is characterized by a mixture of herbaceous and woody plants. The frequency and severity of ice scour and flooding in these two communities maintain their open aspect.

Along the riverbanks and on larger islands, where the disturbance regime is somewhat less severe, two woody community types—the "River birch - sycamore floodplain scrub" and the "Black willow scrub/shrub wetland" frequently occur. These two communities exist on a continuum with the "Big bluestem - Indian grass river grassland." In areas where disturbance is intermediate, the vegetation may be intermediate between types. Likewise, depending on flood and scour severity in recent years, woody plants may become established on, or be removed from a given site. This is a dynamic system, driven primarily by river levels.

In areas subject to still less prolonged and less frequent flooding, and not generally subject to ice scour, floodplain forests usually occur. The "Silver maple floodplain forest" and the "Sycamore - (river birch) - box elder floodplain forest" are dry throughout most of the year, but receive at least intermittent flooding. The "Red maple - elm - willow floodplain swamp" may be flooded with a frequency similar to that of the other two floodplain forest types, but it typically occurs in depressions, old oxbows, or behind natural levees. The landscape position of this community type prevents floodwaters from draining rapidly, and water is retained on the site for prolonged periods. These wetlands may also receive groundwater enrichment and/or surface water from adjacent uplands.

More information is needed to describe in greater detail the hydrology, landscape position and successional dynamics of the community types in this complex.

Range: Entire state, associated with major river systems.

Crosswalk: This complex is equivalent to a combination of Smith's (1991) "Floodplain Swamp," "River Gravel Community," and "Riverside Outcrop / Cliff Community" types.

Selected references: Cowardin et al. 1979, PNDI Field forms, Smith 1991.

72

AmerGen

Michael P. Gallagher, PE
Vice President
License Renewal Projects

Telephone 610.765.5958
www.exeloncorp.com
michaelp.gallagher@exeloncorp.com

An Exelon Company

AmerGen
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

May 22, 2007

Mr. Christopher Urban
Chief of Natural Diversity Section
Pennsylvania Fish and Boat Commission
450 Robinson Lane
Bellefonte, PA 16823-9620

SUBJECT: Three Mile Island Nuclear Station Unit 1 License Renewal. Request for information on state-listed threatened and endangered species and important habitats (fish, reptiles amphibians, and invertebrates).

Dear Mr. Urban:

AmerGen is preparing an application for 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 for TMI-1 will expire 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, the NRC requires license applicants to "assess the impact of the proposed action on threatened or endangered species in accordance with the Endangered Species Act" (10 CFR 51.53). The NRC will also request an informal consultation with your office at a later date under Section 7 of the Endangered Species Act. By contacting you early in the application process, we hope to identify any issues that we need to address or any information that we should provide to your office to expedite the NRC consultation.

TMI-1 is located on Three Mile Island, in the Susquehanna River, in the Londonderry Township of Dauphin County, Pennsylvania. AmerGen began operations of TMI-1 after its purchase of the facility in 1999. The transmission lines associated with the facility are owned and operated by First Energy Corporation. Four transmission lines connect the station to the regional grid, and are thus relevant to license renewal. The *Final Environmental Statement* for operation prepared in 1972 by the U.S. Atomic Energy Commission identified three 230-kilovolt (kV) transmission lines that were built to connect Unit 1 to the electric grid. Two of these 230-kV lines span northeast approximately 1.4 miles in the same corridor connecting the plant with the substation at Middletown Junction. The third 230-kV line extends for 4.1 miles to the western side of the Susquehanna River connecting with the Jackson Substation near Cly. Subsequent to the publication of the *Final Environmental Statement*, a fourth 230-kV line was also constructed that extends 0.7 miles southeast to the TMI-1 500-kV substation. All of the transmission lines are within 150-foot wide corridors

and are primarily in agricultural or pasture lands that continue to be cultivated. Included is a map of the transmission line system layered over the USGS topographic maps surrounding the TMI-1 facility (see Figure 1). Pennsylvania counties crossed by the transmission lines include Lancaster, Dauphin, and York. Based on our direct observations, a review of TMI-1 records, and a review of the Pennsylvania Natural Heritage Program web site for state-listed endangered or threatened species, AmerGen believes that a complete list of state-listed threatened and endangered species has been compiled. This species list includes: three reptiles (Bog turtle, *Clemmys muhlenbergii*, Rough green snake, *Opheodrys aestivus*, and the Redbelly turtle, *Pseudemys rubriventris*); one fish (Black bullhead, *Ameiurus melas*) and one invertebrate (Dwarf wedgemussel, *Alasmidonta heterodon*), that could occur in the counties crossed by the transmission lines.

AmerGen is committed to the conservation of significant natural habitats and protected species, and expects that operation of TMI-1, including maintenance of the identified transmission lines, through the license renewal period (an additional 20 years) would not adversely affect any listed species. AmerGen has no plans to alter current operations over the license renewal period. Any maintenance activities necessary to support license renewal would be limited to previously disturbed areas.

In addition, 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. No additional land disturbance is anticipated in support of license renewal.

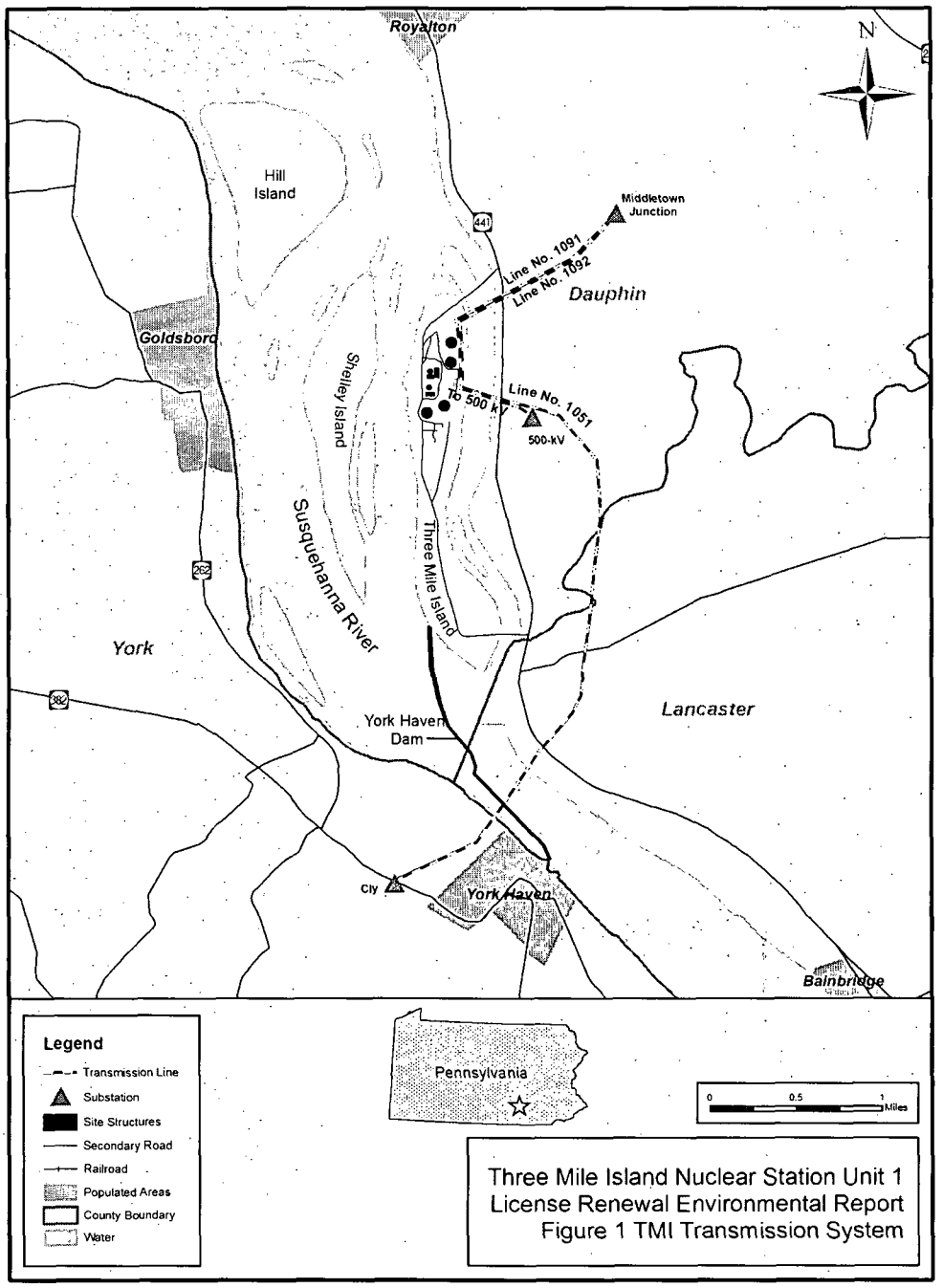
Please call Fred Polaski (610) 765-5935 if you have any questions or require any additional information. After your review, we would appreciate receiving your input by August 17, 2007, detailing any concerns you may have about any listed species or critical habitat in the area, or confirming AmerGen's conclusion that operation of TMI-1 over the license renewal term would have no effect on any threatened or endangered species. 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

Enclosures: Figure 1, TMI-1 Transmission System Map

Figure 1 - TMI-1, Transmission System Map
Page 1 of 1



Pennsylvania Fish & Boat Commission

established 1866

Division of Environmental Services
Natural Diversity Section
450 Robinson Lane
Bellefonte, PA 16823-9620
(814) 359-5237 Fax: (814) 359-5175

June 7, 2007

mrb 6.11.07

IN REPLY REFER TO
SIR # 25706

MICHAEL GALLAGHER
AMERGEN
200 EXELON WAY
KSA/2-E
KENNETT SQUARE, PA 19348

RE: Species Impact Review (SIR) - Rare, Candidate, Threatened and Endangered Species
THREE MILE ISLAND NUCLEAR STATION UNIT 1
LONDONDERRY Township/Borough, DAUPHIN County, Pennsylvania

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search "potential conflict" or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code. The absence of recorded information from our files does not necessarily imply actual conditions on site. Future field investigations could alter this determination. The information contained in our files is routinely updated. A Species Impact Review is valid for one year only.

X *NO ADVERSE IMPACTS EXPECTED FROM THE PROPOSED PROJECT*

___ Except for occasional transient species, rare, candidate, threatened or endangered species under our jurisdiction are not known to exist in the vicinity of the project area. Therefore, no biological assessment or further consultation regarding rare species is needed with the Commission. Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered.

X An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

If you have any questions regarding this review, please contact the biologist indicated below:

___	Jeff Schmid	814-359-5236	___	Tina Walther	814-359-5186
X	Nevin Welte	814-359-5234	___	Bob Morgan	814-359-5129

I am enclosing a copy of our "SIR Request Form", which is to be used for all future species impact review requests. Please make copies of the attached form and use with all future project reviews. Thank you in advance for your cooperation and attention to this important matter of species conservation and habitat protection.

SIGNATURE: Christopher A. Urban DATE: June 7, 2007
Christopher A. Urban
Chief, Natural Diversity Section

Our Mission: www.fish.state.pa.us

To provide fishing and boating opportunities through the protection and management of aquatic resources.

PFBC-DES-NDS-1 (5/2/03)

COMMONWEALTH OF PENNSYLVANIA
FISH AND BOAT COMMISSION
NATURAL DIVERSITY SECTION
SPECIES IMPACT REVIEW (SIR) REQUEST FORM

A. This form provides the site information necessary to perform a computer database search for species of special concern listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, the Pennsylvania Fish and Boat Code or the Wildlife Code.

B. Use only *one form* for each proposed project or location. Complete the information below and mail form to:

Natural Diversity Section
Division of Environmental Services
PA Fish and Boat Commission
450 Robinson Lane
Bellefonte, PA 16823
Fax: (814) 359-5175

C. This form, a cover letter including a project narrative, and accompanying maps should be sent to the above address for environmental reviews that *only* concern *reptiles, amphibians, fishes and aquatic invertebrates.* Reviews for other natural resources must be submitted to other appropriate agencies.

D. The absence of recorded information from our databases and files does not necessarily imply actual conditions on site. Future field investigations could alter this determination. The information contained in our files is routinely updated. A review is valid for one year.

E. *Please send us only one (1) copy of your request* – either by fax or by mail – not both. Mail is preferred to improve legibility of maps. Facsimile submission will not improve our response turn-around time.

F. *Allow 30 days for completion of the review from the date of PFBC receipt.* Large projects and workload may extend this review timeframe.

G. *In any future correspondence with us following your receipt of the SIR response, please refer to the assigned SIR number at the top left of our cover letter.*

H. **FORMS THAT ARE NOT COMPLETED IN FULL WILL NOT BE REVIEWED.**

PLEASE PRINT OR TYPE: If available, provide the potential conflict **PNDI Search Number:**_____
PFBC response should be sent to:
Company/Agency:_____ Form Preparer:_____
Address:_____
_____ Phone (8:00 AM to 4:00 PM):_____
Project Description:_____
_____

Indicate if the project is: Transportation ☐ or Non-transportation ☐ (check one)
Will the proposed project encroach directly or indirectly (e.g., runoff) upon wetlands or waterways? Circle one for each:
Wetlands: Yes No Unknown Waterways: Yes No Unknown
County:_____ Township/Municipality:_____
Name of the United States Geological Survey (U.S.G.S.) 7.5 Minute Quadrangle Map where project is located:
_____ Project size (in acres):_____
Attach an 8.5" by 11" photocopy (**DO NOT REDUCE**) of the section of the U.S.G.S. Quadrangle Map which identifies the project location. On this map, indicate the location of the project center (if linear, depict both ends) and outline the approximate boundaries of the project area.
Specify latitude/longitude of the project center. **Latitude:** _____° /_____'/_____" N
Indicate latitude/longitude in degrees-minutes-seconds format only. **Longitude:** _____° /_____'/_____" W

Three steps are needed to convert from decimal degrees to degrees-minutes-seconds: (1) Degrees will be the whole number. (2) To get minutes, multiply the decimal degree portion by 60. (3) Multiply the decimal minute portion by 60 to get seconds.
Example: (Latitude) 40.93748 = **40°**; 0.93748 x 60 = 56.2488'= **56'**; 0.2488 x 60 = 14.928 = **15"** = **40°56'15"** N
(Longitude) 75.94740 = **75°**; 0.94740 x 60 = 56.844' = **56'**; 0.844 x 60 = 50.64 = **51"** = **75°56'51"** W

FOR PFBC USE ONLY

SIR#	Quad Name	Data Source	Search Result-Potential Species Conflict	Action

AmerGen

Michael P. Gallagher, PE
Vice President
License Renewal Projects

Telephone 610.765.5958
www.exeloncorp.com
michaelp.gallagher@exeloncorp.com

An Exelon Company

AmerGen
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

May 22, 2007

Mr. James Leigey
Wildlife Impact Review Coordinator
Pennsylvania Game Commission
2001 Elmerton Avenue
Harrisburg, PA 17110-9797

SUBJECT: Three Mile Island Nuclear Station Unit 1 License Renewal. Request for information on state-listed threatened and endangered species and important habitats (birds and mammals).

Dear Mr. Leigey:

AmerGen is preparing an application for 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 for TMI-1 will expire 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, the NRC requires license applicants to "assess the impact of the proposed action on threatened or endangered species in accordance with the Endangered Species Act" (10 CFR 51.53). The NRC will also request an informal consultation with your office at a later date under Section 7 of the Endangered Species Act. By contacting you early in the application process, we hope to identify any issues that we need to address or any information that we should provide to your office to expedite the NRC consultation.

TMI-1 is located on Three Mile Island, in the Susquehanna River, in the Londonderry Township of Dauphin County, Pennsylvania. AmerGen began operations of TMI-1 after its purchase of the facility in 1999. The transmission lines associated with the facility are owned and operated by First Energy Corporation. Four transmission lines connect the station to the regional grid, and are thus relevant to license renewal. The Final Environmental Statement for operation prepared in 1972 by the U.S. Atomic Energy Commission identified three 230-kilovolt (kV) transmission lines that were built to connect Unit 1 to the electric grid. Two of these 230-kV lines span northeast approximately 1.4 miles in the same corridor connecting the plant with the substation at Middletown Junction. The third 230-kV line extends for 4.1 miles to the western side of the Susquehanna River connecting with the Jackson Substation near Cly. Subsequent to the publication of the Final Environmental Statement, a fourth 230-kV line was also constructed that extends 0.7 miles southeast to the TMI-1 500-kV substation. All of the transmission lines are within 150-foot wide corridors and are primarily in agricultural or pasture lands that continue to be cultivated. Included is a map of the transmission line system layered over the USGS topographic maps surrounding

the TMI-1 facility (see Figure 1). Pennsylvania counties crossed by the transmission lines include Lancaster, Dauphin, and York. With the exception of the peregrine falcon (*Falco peregrinus*), osprey (*Pandion haliaetus*), bald eagle (*Haliaeetus leucocephalus*), AmerGen is not aware of any other state-listed species at TMI-1 or along the TMI-1-associated transmission lines. Peregrine falcons and osprey nests are known to occur on the TMI-1 property, and AmerGen cooperates with the Pennsylvania Department of Environmental Protection, Pennsylvania Game Commission, and other agencies to document and monitor these nests. Bald eagles have become relatively common along the Susquehanna River and are occasionally observed flying, foraging, or perching in the vicinity of TMI-1, but no eagle nest are known at TMI-1 or the associated transmission line corridors. A review of the Pennsylvania Natural Heritage Program web site for state-listed endangered or threatened species indicates that two mammals and ten birds have been recorded in the counties crossed by the transmission lines. In addition to the birds previously mentioned, these species include the least shrew (*Cryptotis parva*), Allegheny woodrat (*Neotoma magister*), upland sandpiper (*Bartramia longicauda*), American bittern (*Botaurus lentiginosus*), great egret (*Casmerodius alba*), sedge wren (*Cistothorus platensis*), yellow-crowned night heron (*Nyctanassa violacea*), black-crowned night heron (*Nycticorax nycticorax*), and king rail (*Rallus elegans*).

AmerGen is committed to the conservation of significant natural habitats and protected species, and expects that operation of TMI-1, including maintenance of the identified transmission lines, through the license renewal period (an additional 20 years) would not adversely affect any listed species. AmerGen has no plans to alter current operations over the license renewal period. Any maintenance activities necessary to support license renewal would be limited to previously disturbed areas.

In addition, 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. No additional land disturbance is anticipated in support of license renewal.

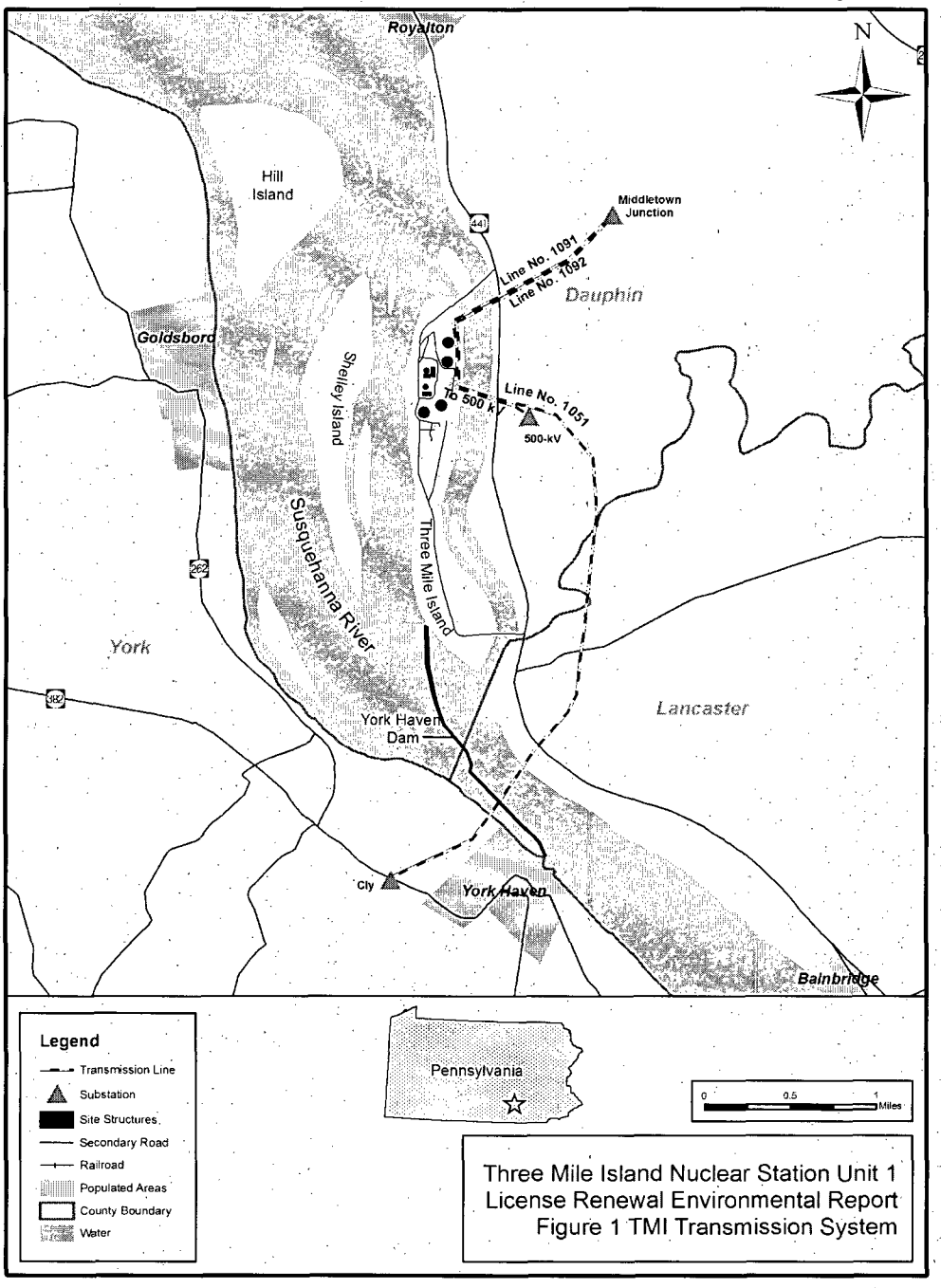
Please call Fred Polaski (610) 765-5935 if you have any questions or require any additional information. After your review, we would appreciate receiving your input by August 17, 2007, detailing any concerns you may have about any listed species or critical habitat in the area, or confirming AmerGen's conclusion that operation of TMI-1 over the license renewal term would have no effect on any threatened or endangered species. 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

Enclosures: Figure 1, TMI-1 Transmission System Map

Figure 1 - TMI-1, Transmission System Map
Page 1 of 1



COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA GAME COMMISSION
2001 ELMERTON AVENUE, HARRISBURG, PA 17110-9797

June 29, 2007

Mr. Michael P. Gallagher
AmerGen
200 Exelon Way
Kennett Square, PA 19348

In re: PNDI Database Review
Three Mile Nuclear Station Unit 1 License Renewal
Dauphin, Lancaster and York Counties, PA

Dear Mr. Gallagher:

This is in response to your letter dated May 22, 2007 regarding the potential impact of your proposed project on special concern species of birds or mammals recognized by the Pennsylvania Game Commission.

Our office review has determined that your proposed Three Mile Nuclear Station Unit 1 License Renewal should not cause any adverse impacts to any special concern species of birds or mammals. This determination may be reconsidered if project plans change or extend beyond the present study area, or if additional information becomes available on state-listed species.

If you have any questions, please contact me at (717) 783-5957. Please be advised that this determination is only valid for one year from the date of this letter.

Very truly yours,

James R. Leigey
Wildlife Impact Review Coordinator
Division of Environmental
Planning and Habitat Protection
Bureau of Wildlife Habitat Management

Cc: File

ADMINISTRATIVE BUREAUS:
PERSONNEL: 717-787-7836 ADMINISTRATION: 717-787-5670 AUTOMOTIVE AND PROCUREMENT DIVISION: 717-787-6594
LICENSE DIVISION: 717-787-2084 WILDLIFE MANAGEMENT: 717-787-5529 INFORMATION & EDUCATION: 717-787-6286 LAW ENFORCEMENT: 717-787-5740
LAND MANAGEMENT: 717-787-6818 REAL ESTATE DIVISION: 717-787-6568 AUTOMATED TECHNOLOGY SYSTEMS: 717-787-4076 FAX: 717-772-2411
WWW.PGC.STATE.PA.US
AN EQUAL OPPORTUNITY EMPLOYER

AmerGen

Michael P. Gallagher, PE
Vice President
License Renewal Projects

Telephone 610.765.5958
www.exeloncorp.com
michaelp.gallagher@exeloncorp.com

An Exelon Company

AmerGen
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

May 22, 2007

Mr. David Densmore
U.S. Fish and Wildlife Service
Pennsylvania Field Office
315 South Allen Street
Suite 322
State College, PA 16801

SUBJECT: Three Mile Island Nuclear Station Unit 1 License Renewal. Request for information on federally threatened and endangered species.

Dear Mr. Densmore:

AmerGen is preparing an application for the U.S. Nuclear Regulatory Commission (NRC) to renew the operating license for the Three Mile Island Nuclear Station Unit 1 (TMI-1). The current operating license for TMI-1 will expire 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, the NRC requires license applicants to "assess the impact of the proposed action on threatened or endangered species in accordance the Endangered Species Act" (10 CFR 51.53). The NRC will also request an informal consultation with your office at a later date under Section 7 of the Endangered Species Act. By contacting you early in the application process, we hope to identify any issues that we need to address or any information that we should provide to your office to expedite the NRC consultation.

TMI-1 is located on Three Mile Island, in the Susquehanna River, in the Londonderry Township of Dauphin County, Pennsylvania. AmerGen began operations of TMI-1 after its purchase of the facility in 1999. The transmission lines associated with the facility are owned and operated by First Energy Corporation. Four transmission lines connect the station to the regional grid, and are thus relevant to license renewal. The *Final Environmental Statement* for operation prepared in 1972 by the U.S. Atomic Energy Commission, identified three 230-kilovolt (kV) transmission lines that were built to connect Unit 1 to the electric grid. Two of these 230-kV lines span northeast approximately 1.4 miles in the same corridor connecting the plant with the substation at Middletown Junction. The third 230-kV line extends for 4.1 miles to the western side of the Susquehanna River connecting with the Jackson Substation near Cly. Subsequent to the publication of the *Final Environmental Statement*, a fourth 230-kV line was also constructed that extends 0.7 miles southeast to the TMI-1 500-kV substation. All of the transmission lines are within 150-foot wide corridors and are primarily in agricultural or pasture lands that continue to be cultivated. Included is a

map of the transmission line system layered over the USGS topographic maps surrounding the TMI-1 facility (see Figure 1).

Pennsylvania counties crossed by the transmission lines include Lancaster, Dauphin, and York. Based on our direct observations, a review of TMI-1 records, and a review of the U.S. Fish and Wildlife Service web site for federally listed endangered or threatened species, AmerGen believes that the bald eagle (*Haliaeetus leucocephalus*) is the only federally listed species known to occur in the vicinity of the TMI-1 site. Bald eagles are occasionally seen flying, foraging, or perching along the Susquehanna River. No eagle nests are known to occur on Three Mile Island, but a nest has been recorded approximately 20 miles south of TMI-1 near the Holtwood Dam. The bog turtle (*Clemmys muhlenbergii*), dwarf wedgemussel (*Alasmidonta heterodon*), and Northeastern bulrush (*Scirpus ancistrochaetus*) have been recorded in the three counties associated with the TMI-1 transmission lines, but are not known to occur in the relatively short length of 5.5 miles of transmission line corridors.

AmerGen is committed to the conservation of significant natural habitats and protected species, and expects that operation of TMI-1, including maintenance of the identified transmission lines, through the license renewal period (an additional 20 years) would not adversely affect any listed species. AmerGen has no plans to alter current operations over the license renewal period. Any maintenance activities necessary to support license renewal would be limited to previously disturbed areas.

In addition, 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. No additional land disturbance is anticipated in support of license renewal.

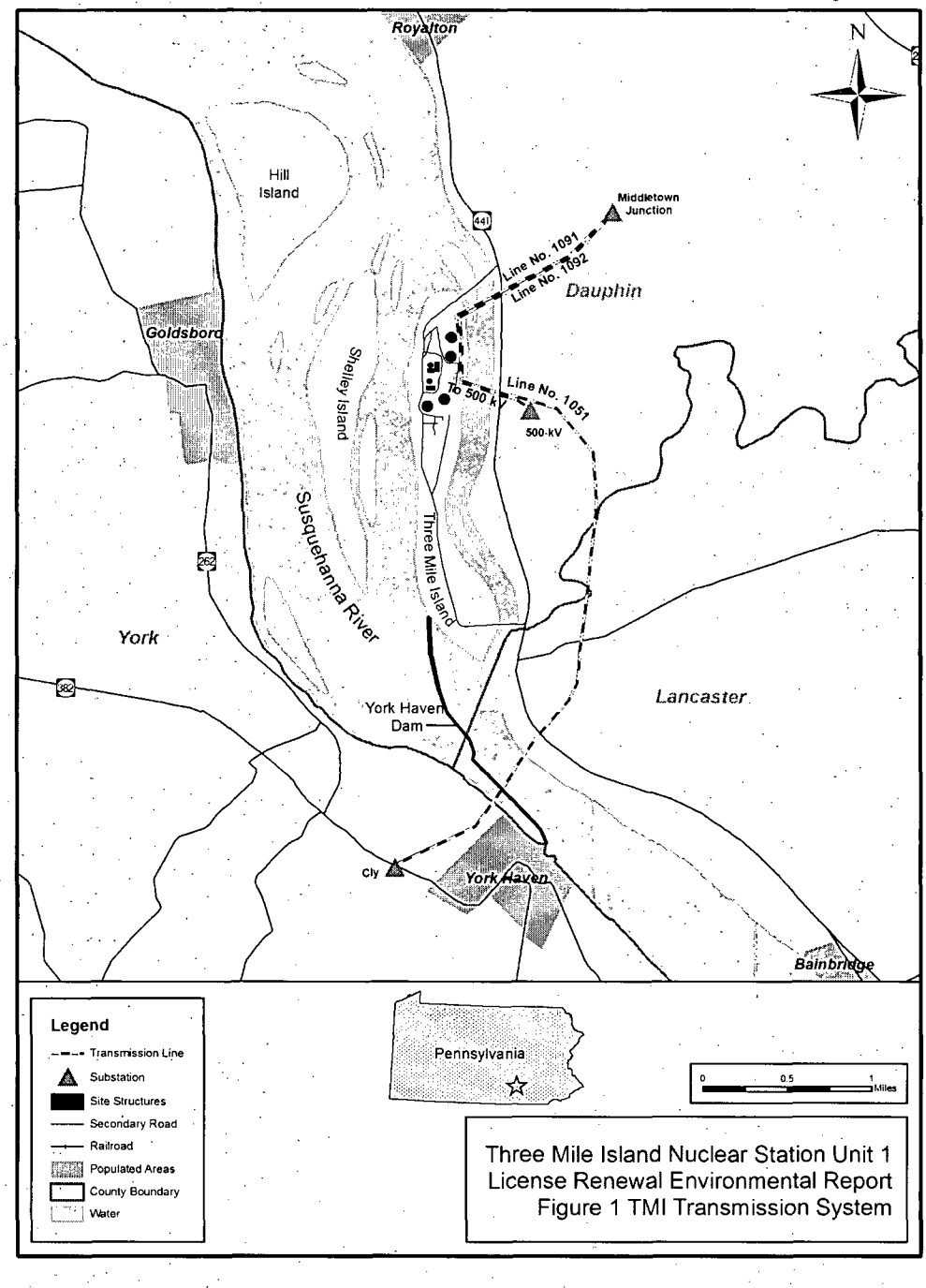
Please call Fred Polaski (610) 765-5935 if you have any questions or require any additional information. After your review, we would appreciate receiving your input by August 17, 2007, detailing any concerns you may have about any listed species or critical habitat in the area, or confirmation of AmerGen's conclusion that operation of TMI-1 over the license renewal term would have no effect on any threatened or endangered species. 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 Three Mile Island Unit 1 license renewal application.

Sincerely,

Michael P. Gallagher

Enclosures: Figure 1, TMI-1 Transmission System Map

Figure 1 - TMI-1, Transmission System Map
Page 1 of 1



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Pennsylvania Field Office
315 South Allen Street, Suite 322
State College, Pennsylvania 16801-4850

June 7, 2007

6.11.07

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

RE: USFWS Project #2007-1764

Dear Mr. Gallagher:

This responds to your letter of May 22, 2007, requesting information about federally listed and proposed endangered and threatened species within the area affected by the Three Mile Island Nuclear Station Unit 1 License Renewal, located in Lancaster, Dauphin and York Counties, Pennsylvania. The following comments are provided pursuant to the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) to ensure the protection of endangered and threatened species.

A nest of the federally listed, threshold bald eagle (*Haliaeetus leucocephalus*) is located on the west side of the Susquehanna River to the northwest of the proposed project. Based on the nature and scale of project activities, and the distance of these activities from the nest, we do not anticipate that bald eagles will be adversely affected.

The Fish and Wildlife Service proposed to remove the bald eagle from the federal *List of Endangered and Threatened Wildlife* on July 6, 1999 (*Federal Register*, Vol. 64, No. 128), but final action on that proposal has not been taken. Therefore, the bald eagle continues to be listed under the Endangered Species Act. Any changes in the regulatory status of the bald eagle can be monitored by accessing our web site at http://www.fws.gov/migratorybirds/baldeagle.htm.

If the bald eagle is delisted, it will no longer receive protection under the Endangered Species Act, but it will continue to be protected by the Bald and Golden Eagle Protection Act (Eagle Act) and the Migratory Bird Treaty Act (MBTA). Both acts protect bald eagles by prohibiting killing, selling or otherwise harming eagles, their nests or eggs. The Eagle Act also protects eagles from disturbance.

On June 4, 2007, the Service released several important documents related to the protection of bald eagles under the Eagle Act, including 1) a final rule establishing a regulatory definition of

"disturb"; 2) a final environmental assessment of the "disturb" regulation; 3) National Bald Eagle Management Guidelines; and 4) a proposed rule to establish a permit for the take of bald and golden eagles. The proposed rule would establish regulations for issuing permits to take bald and golden eagles where the take is associated with, and not the purpose of, otherwise lawful activities. A second permit type would provide for permits to take bald and golden eagle nests for safety emergencies (of humans or eagles). All of these documents can be found at the web site referenced above.

Based on our review of the proposed project, it is our determination under the Endangered Species Act that this project is not likely to adversely affect bald eagles. It is also our determination under the Eagle Act that this project will not disturb bald eagles. Because no take or disturbance is anticipated, none is authorized. If project plans change, please contact the Service to determine whether or not the project modifications will result in effects to bald eagles that may necessitate an Eagle Act permit or Endangered Species Act authorization.

To avoid potential delays in reviewing your project, please use the above-referenced USFWS project tracking number in any future correspondence regarding this project.

Please contact Pam Shellenberger of my staff at 814-234-4090 if you have any questions or require further assistance.

Sincerely,

David Densmore
Supervisor

AmerGen

Michael P. Gallagher, PE
Vice President
License Renewal Projects

Telephone 610.765.5958
www.exeloncorp.com
michaelp.gallagher@exeloncorp.com

An Exelon Company

AmerGen
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

May 22, 2007

Dept. of Environmental Protection
ATTN: Rachel Diamond, Regional Director
Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, PA 17110

SUBJECT: Three Mile Island Nuclear Station Unit 1 License Renewal. Request for Information on Thermophilic Microorganisms.

Dear Mr. Aunkst:

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 for TMI-1 will expire in 2014. Renewing the licenses would provide for an additional 20 years of operation beyond the original license expiration date. The NRC requires license applicants to provide "...an assessment of the impact of the proposed action {license renewal} on public health from thermophilic organisms in the affected water" (10 CFR 51.53). Organisms of concern include the enteric pathogens Salmonella and Shigella, the Pseudomonas aeruginosa bacterium, thermophilic Actinomycetes ("fungi"), the many species of Legionella bacteria, and pathogenic strains of the free-living Naegleria amoeba.

As part of the license renewal process, AmerGen is consulting with your office to determine whether there is any concern about the potential occurrence of these organisms in the Susquehanna River at the TMI-1 location. By contacting you early in the application process, we hope to identify any issues that we need to address or any information that we should provide to your office to expedite the NRC consultation.

AmerGen began operations of TMI-1 after its purchase of the facility in 1999. The facility is located on Three Mile Island, in the Susquehanna River in the Londonderry Township in Dauphin County, adjacent to Lancaster and York Counties, Pennsylvania (see Figure 1). TMI-1 uses two natural draft cooling towers to dissipate waste heat from the station's circulating water system. Thermal modeling conducted by the NRC for the operation of TMI-1 indicated that the station's discharge would have a modest impact on downstream river temperatures (0 to 2.0°F, during summer months). The station's National Pollutant Discharge Elimination System (NPDES) permit requires continuous temperature monitoring of the circulating cooling water systems effluent before discharge into the Susquehanna River. Recent temperature data from the stations NPDES Discharge Monitoring Reports for 2004, 2005, and 2006 indicate that the 24-hr average maximum temperature was 100.4°F.

Water temperatures of 100°F are well below the optimal temperature range (122°F-140°F) for growth and reproduction of thermophilic microorganisms.

Fecal coliform bacteria are regarded as indicators of other pathogenic microorganisms, and are the organisms normally monitored by state health agencies. The NPDES permit for TMI-1 requires monitoring of fecal coliforms in the station's sewage treatment plant effluent. Samples are collected once per quarter for fecal coliform analysis and other parameters. The TMI-1 NPDES permit calls for "effective disinfection" to control disease-producing organisms during the swimming season (May 1 through September 30) and imposes a limit of 200 fecal coliform colonies (geometric average value) per 100 ml sample during this period. The NPDES permit also stipulates that no more than 10 percent of samples tested may contain 1,000 colonies.

Given the thermal characteristics of the Susquehanna River at the TMI-1 thermal discharge and disinfection of the station's sewage treatment plant effluent, AmerGen does not expect station operations to stimulate growth or reproduction of thermophilic microorganisms. Under certain circumstances, these organisms might be present in limited numbers in the station's discharge, but would not be expected in concentrations high enough to pose a threat to recreational users of the Susquehanna River.

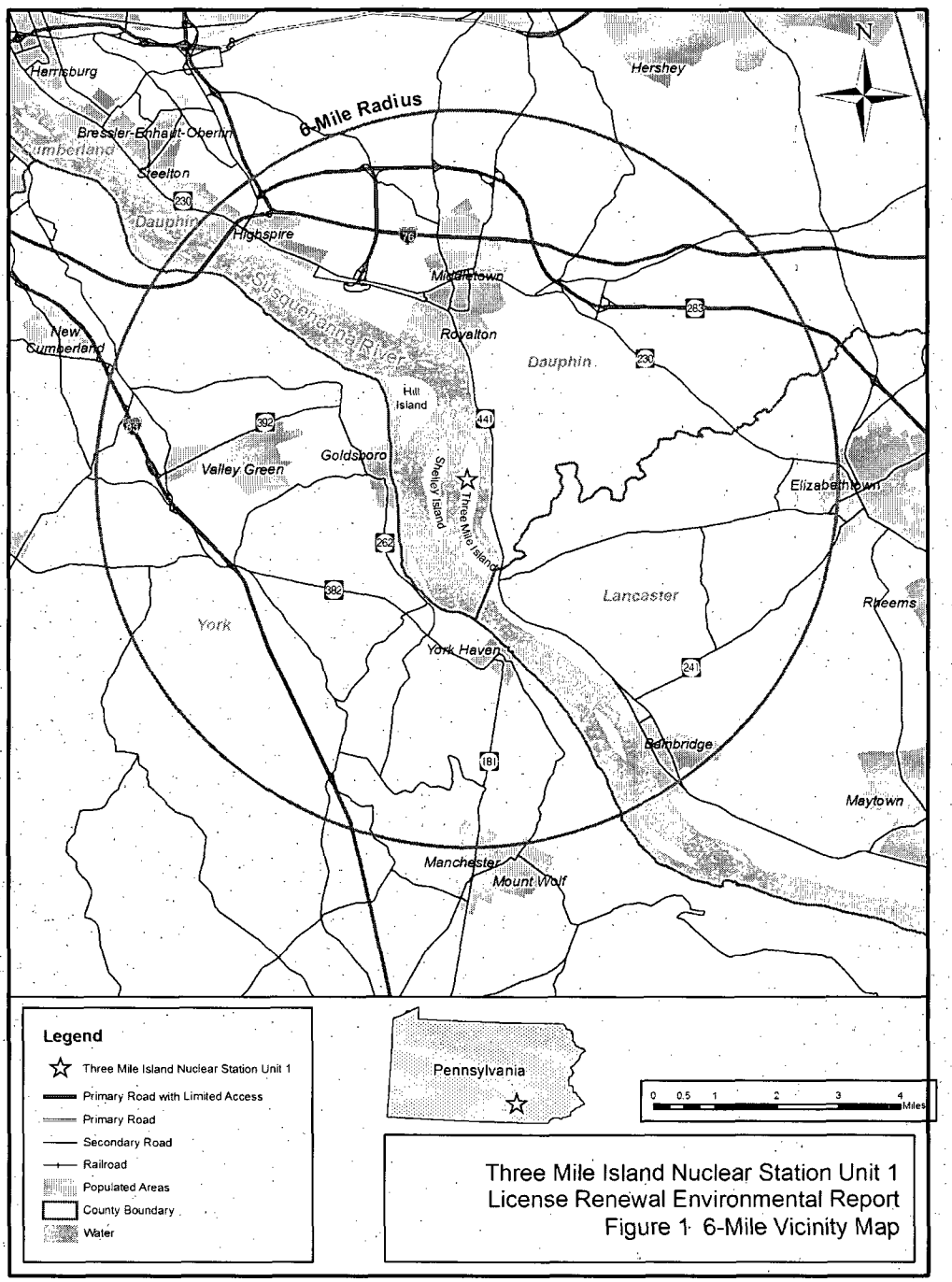
We would appreciate your relating any concerns you may have about these organisms and potential public health effects over the license renewal term by August 17, 2007, or your confirmation of AmerGen's conclusion that operation of TMI-1 over the license renewal term would not stimulate growth of thermophilic pathogens. 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. Please call Fred Polaski (610) 765-5935 if you have any questions or require any additional information.

Sincerely,

Michael P. Gallagher

Enclosure: Figure 1, 6-Mile Vicinity Map

Figure 1, TMI-1 6 Mile Vicinity Map
Page 1 of 1



Pennsylvania Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200
June 1, 2007

Southcentral Regional Office

717-705-4707
FAX - 717-705-4760

MPG 6.7.07

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

Re: Thermophilic Organisms
Three Mile Island Nuclear Station Unit 1
Londonderry Township, Dauphin County

Dear Mr. Gallagher:

We appreciate that AmerGen has contacted the Department with the information request concerning thermophilic organisms. We agree with AmerGen's conclusion that the discharge of cooling water from the operation of Three Mile Island Nuclear Station 1 over the license renewal term would not stimulate growth of thermophilic pathogens.

Please call me at 717-705-4795 if you have any questions or require additional information.

Sincerely,

Lee A. McDonnell, P.E.
Program Manager
Water Management Program

1

Appendix D

State Historic Preservation Officer Correspondence

Table of Contents

AmerGen

Michael P. Gallagher, PE
Vice President
License Renewal Projects

Telephone 610.765.5958
www.exeloncorp.com
michaelp.gallagher@exeloncorp.com

An Exelon Company

AmerGen
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

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).

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

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

References:

PHMC (Pennsylvania Historical and Museum Commission). 1977. "Early and Middle Woodland Campsites on Three Mile Island, Dauphin County, Pennyslvania." 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

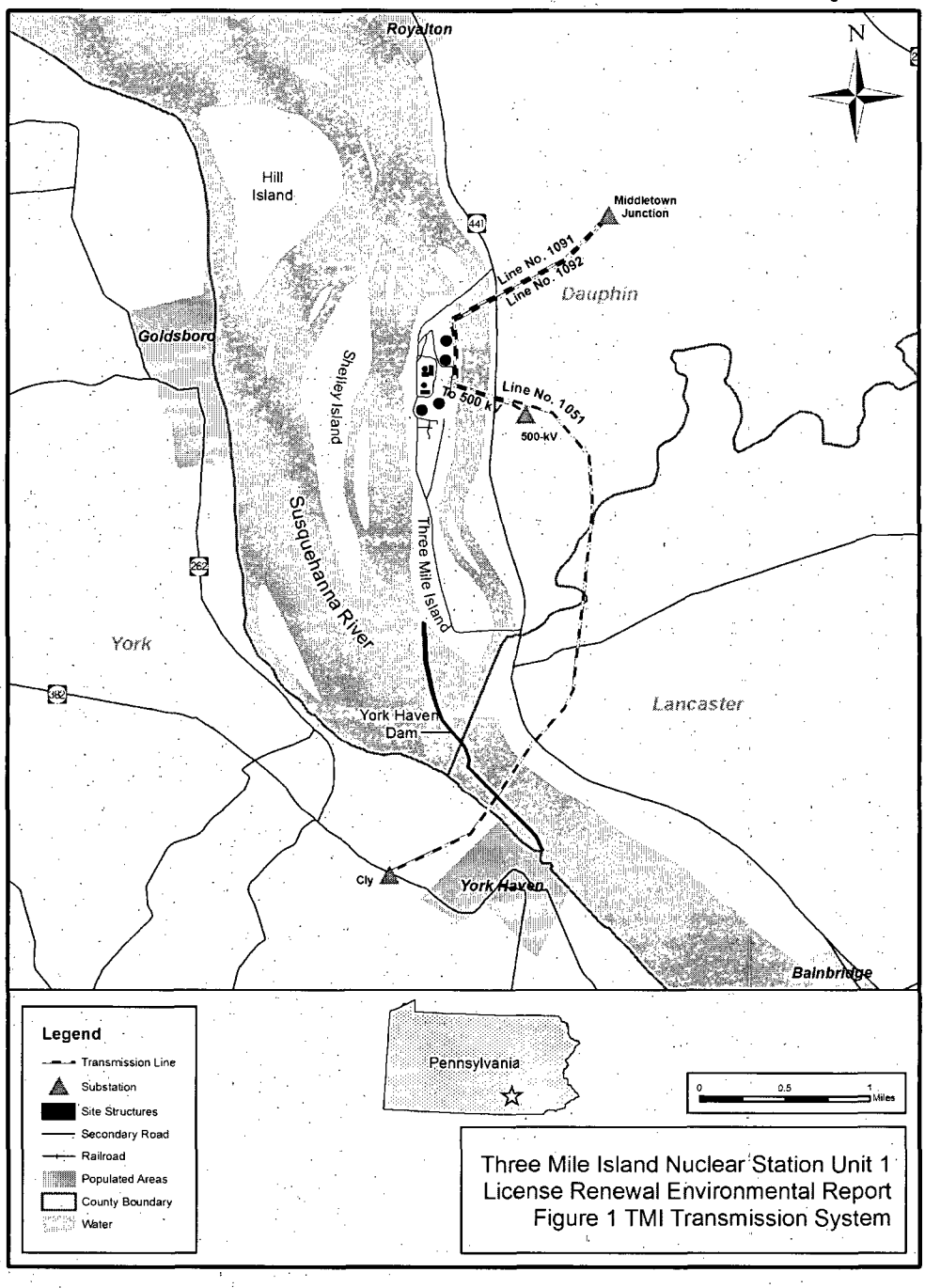
Site Name	Location
National Register of Historic Places Sites	
Byers-Muma House	1402 Trout Run Road, East Donegal Lancaster County
Donegal Presbyterian Church Complex	Donegal Springs Road, East Donegal Lancaster County
Kreider Shoe Manufacturing Company	155 South Poplar Street, Elizabethtown Lancaster 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: USDOI 2006.

Figure 1 - TMI-1, Transmission System Map
Page 1 of 1



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

☐ EXPEDITE REVIEW US.
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