Exelon Nuclear
Peach Bottom Atomic Power Station
1848 Lay Rd.
Delta, PA 17314

www.exeloncorp.com

Exelon Nuclear

10 CFR 50.4

February 17, 2011

ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Submittal of Peach Bottom Atomic Power Station, Units 2 and 3, NRC Docket Nos. 50-277 and 50-278, National Pollutant and Discharge Elimination System (NPDES) Permit No. PA 0009733

In accordance with Appendix B, Environmental Technical Specifications, Section 1.4.2.2 for the subject facility, this letter is being submitted to provide copies of the correspondence and finalized NPDES Permit 0009733 from the Pennsylvania Department of Environmental Protection. This permit became effective date on January 1, 2011 and was approved for a 5 year period. An evaluation of the environmental impact associated with permit changes to thermal discharge requirements is also attached. If you have any questions regarding this matter, please contact Mr. James Armstrong, Peach Bottom Regulatory Assurance Manager at (717) 456-3351 or Mr. Joseph Brozonis, Peach Bottom Sr. Environmental Chemist at (717) 456-3795.

Respectfully,

Garey L. Stathes

Garey Stathes
Plant Manager
Peach Bottom Atomic Power Station

Attachments: (1) Peach Bottom NPDES Permit Modifications Environmental Evaluation
(2) Peach Bottom NPDES Permit PA 0009733

cc: Regional Administrator – NRC Region I
NRC Senior Resident Inspector – Peach Bottom Atomic Power Station

CCN 11 - 09

IE25
NRR

Peach Bottom Atomic Power Station
NPDES Permit Modifications
Environmental Evaluation

Background

The National Pollutant Discharge Elimination System (NPDES) Permit Number PA 0009733 was revised and issued by the Pennsylvania Department of Environmental Protection (PADEP) for Peach Bottom Atomic Power Station (PBAPS) effective for the period January 1, 2011 through May 31, 2015. This revision included two new provisions related to thermal discharge requirements that have been evaluated to determine whether they constitute an Unreviewed Environmental Condition.

This review is to comply with Peach Bottom Atomic Power Stations, Unit 3 Docket No. 50-278, Administrative License Change to Renewed Facility Operating License, License No. DPR-56, revised by letter dated August 9, 2007, Amendment No. 268, renewed license condition 3B on page 7a, and Unit 2 Docket No. 50-277, Administrative License Change to Renewed Facility Operating License, License No. DPR-44, revised by letter dated August 9, 2007, Amendment No. 264, renewed license condition 3B on page 7a. This condition[1] states:

> "In the event of any modification of the NPDES Permit related to thermal discharges or the establishment (or amendment) of alternative effluent limitations established pursuant to Section 316 of the Federal Water Pollution Control Act, the Exelon Generation Company shall inform the NRC and analyze any associated changes in or to the Station, its components, its operation or in the discharge of effluents there from. If such change would entail any modification to this license, or any Technical Specifications which are part of this license, or require NRC approval pursuant to 10 CFR 50.59 or involve an environmental impact different than analyzed in the Final Environmental Statement, the Exelon Generation Company shall file with the NRC, as applicable, an appropriate analysis of any such change on facility safety, and/or an analysis of any such change on the environmental impacts and on the overall cost-benefit balance for facility operation set forth in the Final Environmental Statement and a request for an amendment to the operating license, if required by the Commission's regulations. As used in this Condition 3.B, Final Environmental Statement (FES) means the NRC Staff Final Environmental Statement related to Operation of Peach Bottom Atomic Power Station, Units Nos. 2 and 3, dated April 1973, as modified by (1) the Initial Decision of the Atomic Safety and Licensing Board dated September 14, 1973, (2) the Supplemental Initial Decision of the Atomic Safety and Licensing Board dated June 14, 1974, (3) the Decision of the Atomic Safety and Licensing Appeal Board dated July 5, 1974, (4) the Memorandum and Order of the Commission dated August 8, 1974, (5) any further modification resulting from further review by the Appeal Board and by the Commission, if any, and (6) any Environmental Impact Appraisal which has been or may be issued by the NRC since the FES was published in April 1973."

[1] Similar in both documents.

Reissued NPDES Permit Modifications

The reissued NPDES permit included the following new thermal discharge requirements:

1) Reference Part C, Section VI, Cooling Tower Operation

As part of the Thermal Study set forth in Part C.III hereof, and as provided below, the cooling towers shall be operated continuously during the period from June 15 to September 15 during the period from 2011 to 2014 according to the following implementation schedule. In the event of any action during, the period of tower operation that results in a cooling tower not being operated, the Permittee shall notify the Department of the situation within 24 hours. If a cooling tower will be off line for a period exceeding 72 hours as a result of an equipment failure or other situation, the Permitee shall propose a corrective action plan and schedule for returning the tower to full operation to the Department at the time of the 24 hour notification. The Permittee shall provide a report to the Department identifying the cause, steps taken to get the cooling tower back on line and the time that the cooling tower was off line within 10 days unless a longer period is authorized, in writing, by the Department. In the event a tower will be off line for a period greater than 72 hours, or such longer period of time agreed to in writing by the Department, the Permittee shall bring a spare tower on-line or reduce power generation commensurate with the tower's cooling effect until such time as the cooling tower is returned to operation unless otherwise directed by the Department. At the beginning of the cooling season 2013, all three cooling towers shall be operational such that a spare cooling tower will be available in the event of an action that results in another cooling tower not being operated.

The operation of cooling towers from June 15 to September 15 each year per the following schedule:

2011 - One Tower
2012 - Two Towers
2013 - Two Towers
2014 - Three Towers (only two towers required during one unit operation)

2) Reference Part A, Outfall 001, Effluent Limitations and Footnotes #3 and #4

An instantaneous maximum temperature action level of 110° F for Outfall 001 (Discharge Canal). The permit includes the instantaneous maximum temperature discharge canal action level of 110° F and the above referenced footnotes identify that the station is required to develop and implement a procedure to take action to reduce the discharge canal temperature below 110° F.

Part A, Footnotes, #3:

Effluent temperature monitoring shall be conducted continuously at the end of the discharge channel (at least one measurement every four hours except that monitoring shall only be required once per day if the average temperature on the previous day is less than 47 degrees F). The data shall be averaged for each successive 24-hour period for reporting purposes. Report average daily effluent temperatures on Supplemental Discharge Monitoring Reports (DMRs), and the average monthly and maximum daily temperatures recorded during the month on DMRs. If the temperature of 110 degrees F is reached, the permittee shall comply with it's procedure to reduce the temperature in the discharge channel top bring the

temperature below 110 degrees F. This procedure shall be made available to the Department, upon request. Exelon shall conduct a study to evaluate the 110 degrees F temperature threshold and the appropriate monitoring location for the same.

Part A, Footnotes, #4:

The permittee shall maintain all continuous (at least one measurement every four hours except that monitoring shall only be required once per day if the average temperature of the previous day is less than 47 degrees F) temperature measurements for a period of no less than 5 years, and shall provide the data to the Department in electronic format upon request. The temperature sensors shall be designed to achieve a minimum 2 degrees F accuracy at all times, and the monitoring system shall be operated, maintained and calibrated pursuant to the manufacturers specifications. Calibration records shall be maintained on-site for a period no less than 5 years, and shall be made available to the Department upon request. The accuracy of the monitoring system shall not be used in determining an exceedence of the 110 degree F limitation as described in Footnote #3.

Environmental Evaluation

An environmental evaluation and document review was completed to identify whether there were any Unreviewed Environmental Conditions as a result of the two new proposed thermal discharge requirements. The new thermal discharge requirements were evaluated to determine whether the following potential environmental impacts had previously been evaluated and/or would require further review[2]:

- Air quality or air permit impacts
- Clean Water Act Certifications
- Impingement and entrainment impacts
- Significant environmental aspects
- Thermal Discharge impacts
- River water withdrawal limits
- River water consumptive use limits

Summary / Conclusion

Our evaluation determined the following:

Finding No. 1: Operation of one (1) through three (3) cooling towers per the draft NPDES permit does not constitute an unreviewed environmental condition.

Basis:

- Although the conditions for operating the cooling towers included in the reissued NPDES permit are different than those included in the previous permit, USNRC evaluated operation of the cooling towers in both the Final Environmental Statement (FES-OL) for PBAPS, dated April 1973 and the GEIS (NUREG-1437), Supplement 10 Regarding

[2] Note that an additional evaluation on these impacts was not performed if they were found to have previously been reviewed.

PBAPS, final report dated January 2003, so the reissued permit requirement to operate the towers is not an environmental impact different than the FES or GEIS.

- Operation of one (1) through three (3) cooling towers has been previously reviewed and authorized.

Finding No. 2: The Instantaneous Maximum Temperature action level of 110° F for Outfall 001 does not constitute an unreviewed environmental condition.

Basis:

- The new instantaneous maximum temperature action level is for public safety[3] and not an environmental requirement.

- The previous NPDES permit did not include an instantaneous maximum temperature action level. However, the plant license currently requires that the plant be shut down when the instantaneous intake temperature reaches 92°F[4]. Based on the condenser maximum temperature rise of 21.66 °F for current plant configuration[5] and the 92°F intake temperature limit discussed above, the discharge canal temperature should not exceed 92 + 21.66 = 113.66 °F. The new instantaneous temperature action level of 110°F would result in a lower discharge temperature than the current maximum limit; therefore, it is inherently more protective of the environment.

Based on the above findings and bases, the operation of cooling towers and the instantaneous maximum discharge temperature action level does not constitute an Unreviewed Environmental Condition.

Per Appendix B of the Environmental Technical Specifications for PBAPS Unit 2, Amendment Nos. 210 & 257, and Unit 3, Amendment Nos. 214 & 260, a written report must be submitted to the NRC in accordance with 10 CFR 50.4 in the event the plant change affects the environmental impact evaluation contained in the Environmental Report or the Environmental Statement. Following the flow path of Figure 3 in EN-AA-103-0001, these NPDES permit changes do not result in an increase in any adverse environmental impact previously evaluated in the Final Environmental Statement (FES) or Operating License (OL) and sub-tier documents. Additionally, there is no change in environmental effluents beyond those previously evaluated; no power level change; and no adverse impact is created that has not been previously evaluated in the FES/OL and any sub-tier documents. Therefore, NRC prior approval is not required for these permit changes. A copy of the approved NPDES Permit and this report, however is required to forwarded to the NRC in accordance with Peach Bottom Environmental Technical Specifications Section 1.4 Reporting Requirements, 1.4.2.2 Reporting Changes to the Plant or Permits, (b) Changes or additions to permits.

---

[3] Per PADEP's *Implementation Guidance for Temperature Criteria* (Document 391-2000-017), the instantaneous maximum effluent temperature of 110 °F is for the protection of public safety.

[4] Per Water Quality Protection Report, Peach Bottom Nuclear Power Plant, NPDES Permit PA0009733, and Peach Bottom Atomic Power Station Technical Specifications (Unit 2 Amendment 279, Unit 3 Amendment 281 dated 10/26/10), Section 3.7.2, Emergency Service Water (ESW) System and Normal Heat Sink.

[5] Preliminary estimate of condenser temperature rise under current operating conditions at peak summer inlet temperature of 90 °F, per Exelon email dated May 20, 2010

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION
WATER MANAGEMENT PROGRAM

NOV 3 0 2010

CERTIFIED MAIL NO. 7009 1680 0000 4244 4661

Mr. Garey Stathes
Exelon Generation Co., LLC
1848 Lay Road
Delta, PA 17314

Re: Industrial Waste
Exelon Generation Peach Bottom Nuclear Power Plant
NPDES Permit No. PA0009733
APS ID No. 343329
Authorization No. 687514
Peach Bottom Township, York County

Dear Mr. Stathes:

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 Secretary to 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.

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 Ms. Maria Bebenek at 717.705.4803.

Sincerely,

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

Enclosures

cc: Joseph Brozonis, P.E., Exelon Generation Co., LLC (w/enclosure)
Rick Sanders, URS Corporation (w/enclosure)
Scott Sklenar, Exelon Nuclear (w/enclosure)
U.S. Environmental Protection Agency

bcc: Renee Larry, BWSFR Data Systems and Analysis Division, RCSOB
Heidi Biggs, Office of Water Management, RCSOB
Tom Barron, Office of Water Management, RCSOB
Randy King (w/enclosures)
Duke Pepper, Legal
Lee McDonnell
Kristen Bardell
Bob Schott
Jay Gerber
File
T

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

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

NPDES PERMIT NO. PA 0009733

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.*,

Exelon Generation Company, LLC
Exelon Nuclear
Peach Bottom Nuclear Power Plant
200 Exelon Way
Kennett Square, PA 19348

is authorized to discharge from a facility located in **Peach Bottom Township, York County** and **Fulton and Drumore Townships, Lancaster County** to the **Susquehanna River** in **Watershed 7-I** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B, and C herein.

THIS PERMIT SHALL BECOME EFFECTIVE ON January 1, 2011.

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON May 31, 2015.

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, conditions, or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. 40 CFR 122.41(a)

3. A complete application for reissuance of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. 40 CFR 122.41(b) 122.41(d)

   In the event that a timely and complete application for reissuance has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. 25 Pa. Code 92.9

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

DATE PERMIT ISSUED NOV 30 2010 **ISSUED BY** 
Lee A. McDonnell, P.E.

DATE PERMIT AMENDED _____ **TITLE:** Program Manager

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

I. **For Outfall** 001, **Latitude** 39°44'54.37", **Longitude** 76°15'20.84", **Stream Code** 06685

which receives once-through condenser cooling water, equipment cooling water, emergency service water, sewage, water treatment wastewater, storm water, and other low volume wastes at a design flow of 2,292 MGD.

a. Based on the anticipated wastewater characteristics and flows, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information).

Parameter	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	Mass Loading		Concentrations			Minimum [1] Measurement Frequency	Required Sample Type
	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Instant. Maximum		
Flow (MGD)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	Daily	Calculated
pH (SU)	XXX	XXX	From 6.0 to 9.0 inclusive			1/day	Grab
Clamtrol CT-1 [10]	XXX	XXX	XXX	Monitor & Report	XXX	During Application	Grab
NALCO H150M	XXX	XXX	XXX	Monitor & Report	XXX	During Application	Grab
Total Residual Chlorine [2] (mg/l)	XXX	XXX	XXX	XXX	0.2	1/day	Grab
Effluent [3], [4] Temperature (°F)	XXX	XXX	Monitor & Report	Monitor & Report	110	Continuous	"i-s"

b. Samples taken for compliance with the effluent monitoring requirements shall be taken at the end of the discharge channel, prior to the Susquehanna River.

c. The instantaneous maximum discharge limitations are for compliance used by the Department only. Do not report instantaneous maximums on the Discharge Monitoring Report (DMR) unless specifically requested on these forms to do so.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

II. **For Outfall** 002, **Latitude** 39°45'34.37", **Longitude** 76°15'52.84" **Stream Code** 06685;

and

For Outfall 007, **Latitude** 39°45'39.37", **Longitude** 76°15'54.84" **Stream Code** 06685,

which receive screen backwash water from the discharge pond at a design flow of 0.528 MGD (each).

a. Based on the anticipated wastewater characteristics and flows, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information).

Parameter	DISCHARGE LIMITATIONS [5]					MONITORING REQUIREMENTS	
	Mass Loading		Concentrations			Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Instant. Maximum		
Discharge limited to Raw Intake Screen Backwash Only. Debris collected on the intake screens shall be collected and not discharged back to the river.							

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

III. **For Outfall** 003, **Latitude** 39°45'28.38", **Longitude** 76°15'58.84", **Stream Code** 06685,

which receives wastewater from a water treatment settling basin at a design flow of 0.026 MGD;

For Outfall 004, **Latitude** 39°45'30.37", **Longitude** 76°16'0.84", **Stream Code** 06685,

which receives blowdown from auxiliary boilers, Unit 2 yard drain sump water (groundwater) and storm water at a design flow of 0.067 MGD; and

For Outfall 006, **Latitude** 39°45'24.37", **Longitude** 76°15'53.84", **Stream Code** 06685,

which receives overflows from the dredging/re-handling basin (emergency only).

a. Based on the anticipated wastewater characteristics and flows, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information).

Parameter	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	Mass Loading		Concentrations			Minimum [1], [6] Measurement Frequency	Required Sample Type
	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Instant. Maximum		
Flow (MGD)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	1/month	Calculated
Total Suspended Solids (mg/l)	XXX	XXX	30	100	100	1/month	Grab
Oil and Grease (mg/l)	XXX	XXX	15	20	30	1/quarter	Grab

b. Samples taken in compliance with the effluent monitoring requirements shall be taken at Outfalls 003, 004 and 006, prior to discharge into the discharge pond and channel.
c. Discharge parameters at Outfall 006 shall be monitored only when discharging.
d. The instantaneous maximum discharge limitations are for compliance used by the Department only. Do not report instantaneous maximums on the Discharge Monitoring Report (DMR) unless specifically requested on these forms to do so.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

IV. For Outfall 005 , **Latitude** 39°45'26.37" , **Longitude** 76°15'59.84" , **Stream Code** 06685 ,

which receives effluent from the sewage treatment facility at a design flow of 0.05 MGD.

a. Based on the anticipated wastewater characteristics and flows, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information).

Parameter	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	Mass Loading		Concentrations			Minimum [1] Measurement Frequency	Required Sample Type
	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Instant. Maximum		
Flow (MGD)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	1/day	Measured
pH (SU)	XXX	XXX	From 6.0 to 9.0 inclusive			1/day	Grab
Dissolved Oxygen [c]	XXX	XXX	Minimum of 5.0 mg/l at all times			1/day	Grab
Total Residual Chlorine (mg/l)	XXX	XXX	Monitor & Report	Monitor & Report	XXX	1/day	Grab
$CBOD_5$ (mg/l)	XXX	XXX	25	XXX	50	2/month	8-hour composite
Total Suspended Solids (mg/l)	XXX	XXX	30	XXX	60	2/month	8-hour composite
Total Phosphorus	XXX	XXX	2.0	XXX	4.0	2/month	8-hour composite
Fecal Coliform [7] (5/1 – 9/30)	XXX	XXX	200/100 ml geometric mean			2/month	Grab
Fecal Coliform [7] (10/1 – 4/30)	XXX	XXX	2,000/100 ml geometric mean			2/month	Grab

b. Samples taken in compliance with the effluent monitoring requirements shall be taken at the sewage treatment facility, following disinfection.
c. Dissolved Oxygen discharge limitations shall be achieved pursuant to a compliance schedule as set forth in Part C, Section I Paragraph H. The limit shall become effective October 1, 2011.
d. The instantaneous maximum discharge limitations are for compliance used by the Department only. Do not report instantaneous maximums on the Discharge Monitoring Report (DMR) unless specifically requested on these forms to do so.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

V. **For Outfall** 008, **Latitude** 39°45'45.37", **Longitude** 76°16'06.84", **Stream Code** 06685,

which receives air conditioning cooling water and condensate, HVAC cooling water, and storm water .

For Outfall 009b, **Latitude** 39°45'46.37", **Longitude** 76°16'10.84", **Stream Code** 06685,

which receives storm water.

a. Based on the anticipated wastewater characteristics and flows, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information).

Parameter	DISCHARGE LIMITATIONS [9]					MONITORING REQUIREMENTS	
	Mass Loading		Concentrations			Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Instant. Maximum		
An Annual Inspection of these outfalls is required as per Part C of the Permit.							

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

VI. For Outfall 009a, **Latitude** 39°45'46.37", **Longitude** 76°16'10.84", **Stream Code** 06685,

which receives groundwater collected in the LLRW Cold Sump Tank at a design flow of 0.021 MGD.

a. Based on the anticipated wastewater characteristics and flows, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information).

Parameter	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	Mass Loading		Concentrations			Minimum[1], [8] Measurement Frequency	Required Sample Type
	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Instant. Maximum		
Flow (MGD)	Monitor & Report	Monitor & Report	XXX	XXX	XXX	1/discharge	Calculated
pH (SU)	XXX	XXX	From 6.0 to 9.0 inclusive			1/discharge	Grab
Total Suspended Solids (mg/l)	XXX	XXX	30	100	100	1/discharge	Grab
Oil and Grease (mg/l)	XXX	XXX	15	20	30	1/discharge	Grab

b. Samples taken in compliance with the effluent monitoring requirements shall be taken at Outfall 009a, prior to discharge to the Susquehanna River.

c. The instantaneous maximum discharge limitations are for compliance used by the Department only. Do not report instantaneous maximums on the Discharge Monitoring Report (DMR) unless specifically requested on these forms to do so.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

VII. For Outfalls 010, 012 through 22 and 025 through 033, which receive storm water.

Parameter	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS	
	Mass Loading		Concentrations			Minimum[1] Measurement Frequency	Required Sample Type
	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	Monitor & Report	XXX	1/year	Grab
Oil and Grease (mg/l)	XXX	XXX	XXX	Monitor & Report	XXX	1/year	Grab
Total Petroleum Hydrocarbons (mg/l)	XXX	XXX	XXX	Monitor & Report	XXX	1/year	Grab
Total Suspended Solids (mg/l)	XXX	XXX	XXX	Monitor & Report	XXX	1/year	Grab
Total Iron (mg/l)	XXX	XXX	XXX	Monitor & Report	XXX	1/year	Grab
Total Phosphorus (mg/l)	XXX	XXX	XXX	Monitor & Report	XXX	1/year	Grab
Total Nitrogen (mg/l)	XXX	XXX	XXX	Monitor & Report	XXX	1/year	Grab

a. See PART C.V - "REQUIREMENTS APPLICABLE TO STORM WATER OUTFALLS" for further conditions and instructions.

b. An annual inspection of the facility may be performed in lieu of monitoring the storm water parameters.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

Additional Requirements:

1. The discharger may not discharge floating materials, oil, grease, scum, foam, sheen and substances which produce color, taste, turbidity or settle to form deposits in concentrations or amounts sufficient to be, or creating a danger of being, inimical to the water uses to be protected or to human, animal, plant or aquatic life. 25 Pa. Code 92.51(6)

Footnotes:

1. 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.

2. For Total Residual Chlorine (TRC), monitoring shall be conducted daily when chlorine is introduced to circulating water systems. A method detection limit of no greater than 0.02 mg/l shall be utilized. Chlorine may not be discharged from any single generating unit for more than four hours per day from June 1 through September 30 and no more than two hours per day from October 1 through May 31, unless the discharger demonstrates to the permitting authority that discharge for more than two hours is required for macroinvertebrate control. The generating unit consists of the main condenser cooling water or circulating water systems. Simultaneous multi-unit chlorination application is permitted.

3. Effluent temperature monitoring shall be conducted continuously at the end of the discharge channel (at least one measurement every four hours except that monitoring shall only be required once per day if the average temperature on the previous day is less than 47°F). The data shall be averaged for each successive 24-hour period for reporting purposes. Report average daily effluent temperatures on Supplemental DMRs, and the average monthly and maximum daily temperatures recorded during the month on DMRs. If the temperature of 110°F is reached, the permittee shall comply with it's procedure to reduce the temperature in the discharge channel to bring the temperature below 110°F. This procedure shall be made available to the Department, upon request. Exelon shall conduct a study to evaluate the 110°F temperature threshold and the appropriate monitoring location for the same.

4. The permittee shall maintain all continuous (at least one measurement every four hours except that monitoring shall only be required once per day if the average temperature of the previous day is less than 47°F) temperature measurements for a period of no less than 5 years, and shall provide the data to the Department in electronic format upon request. The temperature sensors shall be designed to achieve a minimum 2.0 °F accuracy at all times, and the monitoring system shall be operated, maintained and calibrated pursuant to manufacturer specifications. Calibration records shall be maintained on-site for a period no less than 5 years, and shall be made available to the Department upon request. The accuracy of the monitoring system shall not be used in determining an exceedence of the 110°F limitation as described in Footnote #3 above.

5. The discharge from Outfalls 002 and 007 is limited to intake screen backwash only. Debris collected on the intake screens shall be collected and managed in accordance with Part C I.A and not returned to waters of the Commonwealth.

6. For Outfall 006, monitoring for Flow, Total Suspended Solids shall be conducted monthly and Oil and Grease shall be conducted quarterly when a discharge from the dredging/rehandling basin occurs.

7. 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 (mean), and not greater than 1,000/100 ml in more than ten percent of the samples tested. During the period October 1 through April 30, the fecal coliform concentration shall not exceed 2,000/100 ml as a geometric mean.

8. For Outfall 009a, monitoring for Flow, pH, Total Suspended Solids and Oil and Grease shall be conducted daily when a discharge from the LLRW Cold Sump Tank occurs.

9. For Outfalls 008 and 009b, the discharge is composed primarily of storm water. The Permitee may conduct an annual inspection of these outfalls as specified in Part C of the permit.

10. For Clamtrol CT-1 and NALCO H150M, monitoring shall be conducted daily when the product is introduced to circulating and/or service water systems. At least one grab sample shall be collected every four hours when the product is released to the discharge channel. If monitoring results for the first twelve month period after the effective date of the permit are non-detectable or demonstrate low variability then for the remainder of the permit term grab samples shall be collected once per application.

VII. DEFINITIONS

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.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit (40 CFR 122.41(l)(4)(iii)).

Best Management Practices ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution to surface waters of the Commonwealth. 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 (25 Pa. Code 92.1).

Bypass means the intentional diversion of waste streams from any portion of a treatment facility (40 CFR 122.41(m)(1)(i)).

Calendar Week is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by the Department to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

Clean Water Act means the Federal Water Pollution Control Act, as amended, (33 U.S.C.A. §§1251 to 1387).

Chemical Additive means the chemicals that are used to control corrosion, algae, slime, fouling, oxygen or other blow down discharges in systems within a facility that might be present in its wastewater discharge. Other chemicals that would be included in this category include by are not limited to polymers, water softeners, flocculants, coagulants, emulsion breakers, dispersants, other oxygen scavenger or possible known carcinogens.

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; 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 (EPA Form 2C).

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 (EPA Form 2C).

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.

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 (25 Pa. Code 92.1 and 40 CFR 122.2).

Daily Maximum Discharge Limitation means the highest allowable "daily discharge."

Discharge Monitoring Report ("DMR") means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee (40 CFR 122.2).

Estimated Flow means any method of liquid volume measurement 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.

Geometric Mean means the average of a set of *n* sample results given by the *n*th root of their product.

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 (EPA Form 2C).

Hazardous Substance means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act (40 CFR 122.2).

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Instantaneous Maximum means the highest allowable discharge of a concentration of a substance at any one time as measured by a grab sample (25 Pa. Code 92.1).

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.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month.

Non-contact 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.

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 (40 CFR 122.41(m)(1)(ii)).

Stor mwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage (25 Pa. Code 92.1).

Stor mwater Associated with Industrial Activity means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing, or raw materials storage areas as defined at 40 CFR 122.26(b)(14) and 25 Pa. Code 92.1.

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

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring (25 Pa. Code 92.1).

VIII. SELF-MONITORING, REPORTING, AND RECORDKEEPING

A. Representative Sampling (40 CFR 122.41(j)(1))

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

2. Records Retention (40 CFR 122.41(j)(2))

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 5 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 3 years from the date of the sample measurement, report, or application. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results (40 CFR 122.41(j)(3))

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 (40 CFR 122.41(i)(4))

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 approved under 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 Subpart J of 25 Pa. Code Chapter 271), or alternate test procedures approved pursuant to those parts, unless other test procedures have been specified in this permit.

5. Quality/Assurance/Control

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

a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA (40 CFR 122.41(e) and 122.41(i)(3)).

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 136 (40 CFR 122.41(j)(4)).

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 (40 CFR 122.41(e) and 40 CFR 122.44(i)(1)).

2. Unless instructed otherwise in Part C of the permit, properly completed DMR(s) must be received by the agency(ies) below within 28 days after the end of each reporting period. The permitee shall complete all Supplemental Reporting forms (Supplemental DMRs) provided by DEP in this permit (or an approved equivalent), and submit the signed, completed forms as an attachment to the DMR(s). If the permittee elects to use DEP's electronic DMR (eDMR) system, one electronic submission may be made for DMRs and Supplemental DMRs. If paper forms are used, the completed forms shall be mailed to:

   Department of Environmental Protection
   Water Management Program
   909 Elmerton Avenue
   Harrisburg PA 17110-8200

   NPDES Enforcement Branch (3WP42)
   Office of Permits & Enforcement
   Water Protection Division
   U.S. EPA – Region III
   1650 Arch Street
   Philadelphia, PA 19103-2029

3. The completed DMR Form shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92.23:

   - For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
   - 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 principal executive officer or ranking elected official.

   If signed by a person other than the above, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form (40 CFR 122.22(b)(3)).

4. If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in PART A VIII.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 (40 CFR 122.41(l)(4)(ii)).

C. Reporting Requirements

1. Planned Changes (40 CFR 122.41(l)(1)) - The permittee shall give notice to DEP as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:

   a. 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 122.29(b).

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in this permit, nor to notification requirements under 40 CFR 122.42(a)(1).

   c. 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.

2. Anticipated Noncompliance

The permittee shall give advance notice to DEP of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements (40 CFR 122.41(l)(2)).

3. Unanticipated Noncompliance or Potential Pollution Reporting

a. Immediate Reporting - The permittee shall report incidents causing or threatening pollution in accordance with the requirements of 25 Pa. Code Section 91.33. If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify the Department by telephone of the location and nature of the danger and if reasonable possible to do so, notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger. The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substance contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.

b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 CFR 122.41(l)(6). These requirements include the following obligations:

(i) 24 Hour Reporting - The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Any upset which exceeds any effluent limitation in the permit; and

(3) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hr reporting requirement (40 CFR 122.44(g)).

(ii) Written Report - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. 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.

(iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by the Department, the permittee shall submit a written report in accordance with this paragraph (40 CFR 122.41(l)(6)(iii)).

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.3. of this section or specific requirements of compliance schedules at the time DMRs are submitted. The reports shall contain the information listed in paragraph C.3.b.ii of this section (40 CFR 122.41(l)(7)).

D. Specific Toxic Pollutant Notification Levels (for Manufacturing, Commercial, Mining, and Silvicultural Direct Dischargers) - The permittee shall notify DEP as soon as it knows or has reason to believe the following (40 CFR 122.42(a)):

1. That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in this permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels" (40 CFR 122.42(a)(1)):

   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 DEP.

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 this permit, if that discharge will exceed the highest of the following "notification levels" (40 CFR 122.42(a)(2)):

   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 DEP.

PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance Schedules (25 Pa. Code 92.55 and 40 CFR 122.47(a))

1. The permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit (40 CFR 122.47(a)(4)).

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 Title 25 Pa. Code 92.51(2) and 40 CFR 122.41(f).

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 (40 CFR 122.41(f)).

3. In the absence of DEP 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 (40 CFR 122.41(a)(1)).

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit (40 CFR 122.41(h)).

2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit (25 Pa. Code 92.51(3) (ii) and 40 CFR 122.41(h)).

3. 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 DEP, it shall promptly submit the correct and complete facts or information (40 CFR 122.41(l)(8)).

D. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) 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 (40 CFR 122.41(e)).

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 (40 CFR 122.41(d)).

F. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions in paragraphs 2, 3 and 4 of this section (40 CFR 122.41(m)(2)).

2. Other Bypassing – In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:

   a. A bypass is unavoidable to prevent loss of life, personal injury, or "severe property damage" (40 CFR 122.41(m)(4)(i)(A));

   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 which occurred during normal periods of equipment downtime or preventive maintenance (40 CFR 122.41(m)(4)(i)(B)); and

   c. The permittee submitted the necessary reports required under 4.a. and b. below (40 CFR 122.41(m)(4)(i)(C)).

3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in F.2 above (40 CFR 122.41(m)(4)(ii)).

4. Notice

   a. Anticipated Bypass – If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the bypass (40 CFR 122.41(m)(3)(i)).

   b. Unanticipated Bypass – The permittee shall submit notice of an unanticipated bypass as required in Part A VIII C.3.a.

      (i) The permittee shall submit immediate notice of an unanticipated bypass causing or threatening pollution. The notice shall be in accordance with Part A VIII.C.3.a.

      (ii) The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with Part A VIII.C.3.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 122.41(a)(2).

Any person or municipality who violates any provision of this permit; any rule, regulation, or order of DEP; 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

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 18 Pa.C.S.A § 4904 and 40 CFR 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. Need to Halt or Reduce Activity Not a Defense

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 (40 CFR 122.41(c)).

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, 25 Pa. Code Chapter 92 and 40 CFR 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law;

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 (25 Pa. Code 92.51(3)(i) and 40 CFR 122.41(i)(1));

2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit (25 Pa. Code 92.51(3) (ii) and 40 CFR 122.41(i)(2));

3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit (40 CFR 122.41(i)(3)); 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 (40 CFR 122.41(i) (4)).

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 this 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 (40 CFR 122.61(a)).

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 DEP at least 30 days in advance of the proposed transfer date in

paragraph 2.b of this section (25 Pa Code 92.71a (1) and 40 CFR 122.61(b)(1));

b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them (25 Pa. Code 92.7a (2) and 40 CFR 122.61(b)(2)); and

c. If DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b of this section (25 Pa. Code 92.71a (3) and 40 CFR 122.61(b) (3)).

d. The new permittee is in compliance with existing Department issued permits, regulations, orders and schedules of compliance, or that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with § 92.55 (relating to schedules of compliance) and other appropriate Department regulations (25 Pa. Code 92.71a(4)).

3. In the event DEP does not approve transfer of this 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 (40 CFR 122.41(g)).

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit (40 CFR 122.21(d)).

E. Other Laws

The issuance of this 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. Collected screenings, slurries, sludges, and other solids shall be handled, recycled and/or disposed of in compliance with the Solid Waste Management Act (35 P.S. §§ 6018.101 – 6018.1003), federal regulation 40 CFR Part 257, The Clean Streams Law, and the Federal Clean Water Act and its amendments. Screenings collected at intake structures shall be managed and not be returned to the receiving waters.

B. No storm water from pavements, area ways, roofs, foundation drains, or other sources shall be admitted directly to the sanitary sewers associated with the sewage treatment facility.

C. The permittee shall ensure that applied chlorine, used for disinfection or other purposes, is minimized to the degree necessary to disinfect the effluent. In doing so, the permittee shall consider relevant factors affecting chlorine dosage, such as water characteristics, mixing and contact times, and the desired result of chlorination.

D. The permittee shall complete all Supplemental Reporting forms (Supplemental DMRs) provided by the Department in this permit (or an approved equivalent), and submit the signed, completed forms to the Department on a monthly basis with the DMR, in accordance with Part A VIII.B of this permit.

E. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid as determined by the most sensitive EPA approved test method.

F. Radioactive Reference- Waterborne releases of radioactive material 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 Environmental Technical Specifications for the facility

The facility operator shall maintain the following information at the Peach Bottom Atomic Power Station:

1. Report(s) specifying the quantities of radioactive materials released to unrestricted areas in liquid/ gaseous effluents;
2. Report(s) of the results of environmental surveillance activities, and
3. Other reports as necessary for the estimation of the dose consequential to facility operation.

G. 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 1 MGD or greater.

2. POTW with a pretreatment requirement.

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

H. The permitee shall implement the new Dissolved Oxygen discharge limitations and monitoring requirements at Outfall 005 pursuant to a nine month compliance schedule. The limit shall be effective October 1, 2011.

II. COOLING WATER INTAKE STRUCTURES

The purpose of Section 316(b) of the Clean Water Act (CWA) is to establish the best technology available (BTA) for minimizing adverse environmental impacts associated with the use of cooling water intake structures.

As the operator of a facility with an existing cooling water intake structure, the following conditions apply to the Permittee:

A. The location, design and operation of the facility's cooling water intake structure(s) must conform to requirements pursuant to Section 316(b) of the CWA and any state regulations effective at the time an appropriate BTA is approved by the Department. The facility's intake structure must employ the BTA and be operated in such a way to minimize the adverse environmental impacts associated with impingement mortality and, if applicable, entrainment of all life stages of fish by the cooling water intake structure(s).

B. The location, design, construction or capacity of the intake structure(s) may not be altered without prior approval of the Department.

C. The Permittee has previously submitted the following data and information to the Department as part of the Section 316(b) determination study: (1) Proposal for Information Collection, (2) Source Water Body Flow Information, (3) Impingement Mortality Characterization Study, and (4) Design and Construction Technology Plan.

D. Entrainment characterization study

1. Within 90 days of permit issuance, The Permittee shall submit a Work Plan to conduct entrainment sampling (see Section 2 below) of the non-contact cooling water inner intake structure at the Peach Bottom Atomic Power Station ("Facility"). The Permittee shall respond to the Department's comments on the Work Plan within 30 days of receipt. Startup of the sampling program shall occur at the beginning of the next fish spawning season following receipt of written Department approval of the Work Plan, or an alternate schedule approved by the Department, in writing.

2. The Work Plan shall include a detailed proposal for the following entrainment sampling of fish eggs and larvae.

   a) Entrainment data collections shall occur for a period of at least one fish spawning season, approximately March through September, at a sampling frequency sufficient to characterize the entrainment occurring.

   b) Voucher specimens of two (or one if only one is available) Chesapeake logperch (*Percina bimaculata*) and federal and state threatened, endangered and candidate fish species collected shall be retained and catalogued. The Department along with the appropriate state and federal authorities shall be notified within 24-hours if any federal or state threatened, endangered, or candidate fish species are identified.

   c) Entrainment data collection shall be performed by qualified consultants and/or trained professionals with the skills and knowledge appropriate for producing valid samples and evaluations under a formal QA/QC plan.

III. THERMAL ASSESSMENT AND MODELING AND BIOLOGICAL ASSESSMENT WORK PLAN

The Permittee will conduct thermal and biological sampling (Thermal Study)during the permit term for the following purposes: 1) as a demonstration study of an alternative effluent temperature limitation (as required by Footnote 3 in Part A) and alternative thermal effluent limitations under Section 316(a) of the Clean Water Act, (2) to evaluate changes in the thermal plume created by operation of up to three helper cooling towers, and (3) as a predictive study of the changes to the thermal discharge associated with potential power uprates to the plant, taking into account the impact of the operation of the helper cooling towers The Permittee shall not implement any power uprate at the plant without obtaining approval from the Department or a modification or renewal of this permit.

The Thermal Study shall be performed according to the following schedule. Within 90 days of permit issuance, The Permittee shall submit a Work Plan to conduct continuous and mobile temperature monitoring, and biological monitoring within the Susquehanna River and to investigate and model flow and heat dynamics in the vicinity of The Peach Bottom Atomic Power Station ("Facility") .The Permittee shall respond to the Department's comments on the Work Plan within 45 days of receipt, or an alternate schedule approved by the Department, in writing. The Permittee shall conform to the schedule in the Work Plan approved by the Department. Startup of the sampling program shall occur within 60 days of receipt of written Department approval of the Work Plan, or an alternate schedule approved by the Department, in writing. The Permittee shall use the data to develop a model to predict thermal impacts from the operation of the facility. The model protocol, assumptions and output shall be approved by the Department, in writing. The Permittee shall submit a preliminary report documenting flow and heat dynamics each year of the permit term and a final report by the end of the permit term, unless an alternate schedule is approved by the Department, in writing. The Thermal Study constitutes a variance under Section 316(a) of the Clean Water Act.

IV. CHEMICAL ADDITIVE 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 approval is limited to chemicals and usage rates contained in the application.

B. The additives and usage rates currently approved are the following:

Outfall 001

Name
Powerline 369660 – Approved Maximum Usage Rate – 346 lb/day
Sodium Hypochlorite
Clamtrol CT-1
NALCO H150M
Zinc Phosphate
C-9
pHreeGuard 4500
3D TRASAR 3DT222
3D TRASAR 3DT124
NALCO 1315
NALCO 73310
3D TRASAR 3DT197

Outfall 003

Name
Hypersperse MDC150
Hydrochloric Acid
Sodium Hydroxide
Hydrogen Peroxide
Sodium Chloride
Polyfloc AE1115P
Glycerin
Sodium Hypochlorite
Citric Acid
Sodium BiSulfite
Klaraid IC1172P
Sodium Metabisulfite

Outfall 004

Name
Sodium Sulfite
Trisodium Phosphate
Disodium Phosphate

Outfall 005

Name
Sodium Hypochlorite
Aluminum Sulfate
Sodium Hydroxide

Closed Loop Systems

Name
Corrshield NT4203
NALCO 73310
Spectrus NX1100
Spectrus NX1105
AZ 8100
Sodium Nitrite
Benzotriazole

If no approved maximum usage rate is listed, use is limited to the usage rates specified in the permit application and the usage rates specified in requests for Chemical Additive Usage received after submittal of the permit application. Usage is also limited to amounts that would achieve compliance with concentration limitations in Part A of the permit.

C. Whenever a change in additives or increase in usage rates is desired by the permittee, 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 LC_{50} 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).
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 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 on the "Chemical Additive Reporting Form" 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.

V. REQUIREMENTS FOR STORM WATER OUTFALLS

A. Prohibition of Non-Storm Water Discharges

1. Except as provided in A.2, all discharges to storm water outfalls, shall be composed entirely of storm water.

2. The following non-polluting water discharges are authorized, provided the discharge is in compliance with D.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, 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 polluting substances resulting from an on-site spill. Such spills shall be controlled through proper implementation of a Preparedness, Prevention and Contingency (PPC) Plan as stated in Section D below.

C. This permit does not authorize any discharge (storm water or non-storm water) containing any pollutant that may cause or contribute to an impact on aquatic life or pose a substantial hazard to human health or the environment due to its quantity or concentration.

D. 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 storm water discharges from the facility. In addition, the PPC Plan shall describe the BMPs that are to be used to reduce the pollutants in storm water discharges at the facility ensuring compliance with the terms and conditions of this permit.

2. Non-Storm Water Discharges

   a. The PPC Plan shall contain a certification that the discharge has been tested or evaluated for the presence of non-storm water discharges. The certification shall include the identification of potential significant sources of non-storm water at the site, a description of the results of any test and/or evaluation for the presence of non-storm water 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 storm water discharge 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 non-storm water listed in A.2 (authorized non-storm water discharges) that are combined with storm water discharges must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water 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 storm water; and history of significant leaks or spills of toxic or hazardous pollutants.

   b. Engineering Certification. No storm water 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 D.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 storm water 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 least once a year. Such evaluations shall include:

   a. Visual inspection and evaluation of areas contributing to a storm water discharge 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 storm water 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.

c. A report summarizing the scope of the inspection, using the DEP's Annual Inspection Form included with this permit, shall be completed and made available upon request and retained as part of the PPC Plan for at least one year after coverage under this permit terminates.

E. Storm Water Management Best Management Practices (BMPs)

1. The permitee shall comply with the facility's Spill Prevention Control and Countermeasure Plan (SPCC), as updated from time to time pursuant to 40 CFR Section 112.

2. Implement other BMPs as requested or required by the Department.

F. Storm Water Sampling and Reporting

1. The following table lists the storm water outfalls at the facility:

Outfall	Latitude	Longitude	Receiving Stream
008	39°45'45.37"	76°16'06.84"	Susquehanna River
009b	39°45'46.37"	76°16'10.84"	Susquehanna River
010	39°46'02.37"	76°16'20.85"	Susquehanna River
012	39°45'57.37"	76°16'16.84"	Susquehanna River
013	39°45'56.37"	76°16'15.84"	Susquehanna River
014	39°45'54.37"	76°16'14.84"	Susquehanna River
015	39°45'50.37"	76°16'12.84"	Susquehanna River
016	39°45'48.37"	76°16'10.84"	Susquehanna River
017	39°45'44.37"	76°16'03.84"	Susquehanna River
018	39°45'43.37"	76°15'58.84"	Susquehanna River
019	39°45'13.37"	76°15'47.84"	Discharge Channel to Susquehanna River
020	39°45'17.37"	76°15'50.84"	Discharge Channel to Susquehanna River
021	39°45'19.38"	76°15'52.84"	Discharge Channel to Susquehanna River
022	39°45'22.37"	76°15'55.84"	Rock Run Creek
025	39°45'20.07"	76°16'03.93"	Rock Run Creek
026	39°45'23.96"	76°15'58.78"	Rock Run Creek
027	39°45'27.37"	76°15'59.84"	Discharge Channel to Susquehanna River
028	39°45'26.37"	76°15'59.84"	Discharge Channel to Susquehanna River
029	39°45'28.59"	76°15'59.75"	Discharge Channel to Susquehanna River
030	39°45'21.53"	76°16'0.47"	Road Culvert South of Rock Run Creek
031	39°45'20.09"	76°16'3.71"	Road Culvert South of Rock Run Creek
032	39°45'19.77"	76°16'6.34"	Road Culvert South of Rock Run Creek
033	39°45'19.85"	76°16'6.07"	Road Culvert South of Rock Run Creek

2. Storm water samples shall be collected as grab samples during the first 30 minutes but no later than 1 hour of the discharge resulting from a storm event of at least 0.1 inch that occurs at least 72 hours from the previously

measurable storm event. The sample results shall be reported on a DMR and shall be submitted to the Department for the month in which samples were collected.

3. This facility may conduct an annual inspection of the facility in lieu of sampling

VI. – Cooling Tower Operation

As part of the Thermal Study set forth in Part C.III hereof, and as provided below, the cooling towers shall be operated continuously during the period from June 15 to September 15 during the period from 2010 to 2014 according to the following implementation schedule. In the event of any action during, the period of tower operation that results in a cooling tower not being operated, the Permittee shall notify the Department of the situation within 24 hours. If a cooling tower will be off line for a period exceeding 72 hours as a result of an equipment failure or other situation, the Permittee shall propose a corrective action plan and schedule for returning the tower to full operation to the Department at the time of the 24 hour notification. The Permittee shall provide a report to the Department identifying the cause, steps taken to get the cooling tower back on line and the time that the cooling tower was off line within 10 days unless a longer period is authorized, in writing, by the Department. In the event a tower will be off line for a period greater than 72 hours, or such longer period of time agreed to in writing by the Department, the Permittee shall bring a spare tower on-line or reduce power generation commensurate with the tower's cooling effect until such time as the colling tower is returned to operation unless otherwise directed by the Department. At the beginning of the cooling season 2013, all three cooling towers shall be operational such that a spare cooling tower will be available in the event of an action that results in another cooling tower not being operated.

2011 – One Tower
2012 – Two Towers
2013 – Two Towers
2014 – Three Towers (only two towers are required during one unit operation)

3800-FM-WSFR0462 9/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: Exelon Generation Co. LLC
ADDRESS: 1848 Lay Road
Delta, PA 17314
FACILITY: Exelon Generation Peach Bottom Nuclear Power Plant
LOCATION: Peach Bottom Township
York County
WATERSHED: 7-I and 7-K

PA0009733	001
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly
DMR Effective From: January 1, 2011
DMR Effective To: May 31, 2015
Permit Expires: May 31, 2015
Permit Application Due: November 30, 2014
___ Check Here if No Discharge
NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow	SAMPLE MEASUREMENT				*****	*****	*****	*****			
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	*****	*****	*****			1/day	Calculation
pH	SAMPLE MEASUREMENT	*****	*****	*****		*****		S.U.			
	PERMIT REQUIREMENT	*****	*****		6.0 Min	*****	9.0 Max			1/day	Grab
Total Residual Chlorine	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		mg/L			
	PERMIT REQUIREMENT	*****	*****		*****	*****	0.2 IMAX			1/day	Grab
Temperature	SAMPLE MEASUREMENT	*****	*****	*****	*****			°F			
	PERMIT REQUIREMENT	*****	*****		*****	Report Avg Mo	Report Daily Max			Continuous	I-S
Clamtrol CT-1	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		mg/L			
	PERMIT REQUIREMENT	*****	*****		*****	*****	Report Daily Max			See Permit	Grab
NALCO H150M	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		mg/L			
	PERMIT REQUIREMENT	*****	*****		*****	*****	Report Daily Max			See Permit	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).					
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS *(Report all violations on the "Non-Compliance Reporting Form")*

3800-FM-WSFR0462 9/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: Exelon Generation Co. LLC
ADDRESS: 1848 Lay Road
Delta, PA 17314
FACILITY: Exelon Generation Peach Bottom Nuclear Power Plant
LOCATION: Peach Bottom Township
York County
WATERSHED: 7-I and 7-K

PA0009733	003
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
			TO			

Reporting Frequency: Monthly
DMR Effective From: January 1, 2011
DMR Effective To: May 31, 2015
Permit Expires: May 31, 2015
Permit Application Due: November 30, 2014

___ Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow	SAMPLE MEASUREMENT				*****	*****	*****				
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	*****	*****	*****	*****		1/month	Calculation
Total Suspended Solids	SAMPLE MEASUREMENT	*****	*****		*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	30 Avg Mo	100 Daily Max	mg/L		1/month	Grab
Oil and Grease	SAMPLE MEASUREMENT	*****	*****		*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	15 Avg Mo	20 Daily Max	mg/L		1/quarter	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).		TELEPHONE		DATE		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS *(Report all violations on the "Non-Compliance Reporting Form")*

3800-FM-WSFR0462 9/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: Exelon Generation Co. LLC
ADDRESS: 1848 Lay Road
Delta, PA 17314
FACILITY: Exelon Generation Peach Bottom Nuclear Power Plant
LOCATION: Peach Bottom Township
York County
WATERSHED: 7-I and 7-K

PA0009733	004
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
			TO			

Reporting Frequency: Monthly
DMR Effective From: January 1, 2011
DMR Effective To: May 31, 2015
Permit Expires: May 31, 2015
Permit Application Due: November 30, 2014

___ Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
	SAMPLE MEASUREMENT				*****	*****	*****				
Flow	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	*****	*****	*****	*****		1/month	Calculation
	SAMPLE MEASUREMENT	*****	*****		*****						
Total Suspended Solids	PERMIT REQUIREMENT	*****	*****	*****	*****	30 Avg Mo	100 Daily Max	mg/L		1/month	Grab
	SAMPLE MEASUREMENT	*****	*****		*****						
Oil and Grease	PERMIT REQUIREMENT	*****	*****	*****	*****	15 Avg Mo	20 Daily Max	mg/L		1/quarter	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).		TELEPHONE		DATE		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS *(Report all violations on the "Non-Compliance Reporting Form")*

3800-FM-WSFR0462 9/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: Exelon Generation Co. LLC
ADDRESS: 1848 Lay Road
Delta, PA 17314
FACILITY: Exelon Generation Peach Bottom Nuclear Power Plant
LOCATION: Peach Bottom Township
York County
WATERSHED: 7-I and 7-K

PA0009733	005
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly
DMR Effective From: January 1, 2011
DMR Effective To: May 31, 2015
Permit Expires: May 31, 2015
Permit Application Due: November 30, 2014
___ Check Here if No Discharge
NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow	SAMPLE MEASUREMENT			MGD	*****	*****	*****	*****			
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max		*****	*****	*****			1/day	Measured
pH	SAMPLE MEASUREMENT	*****	*****	*****		*****		S.U.			
	PERMIT REQUIREMENT	*****	*****		6.0 Min	*****	9.0 Max			1/day	Grab
Dissolved Oxygen (1/1/11 – 9/30/11)	SAMPLE MEASUREMENT	*****	*****	*****		*****	*****	mg/L			
	PERMIT REQUIREMENT	*****	*****		Report Min	*****	*****			1/day	Grab
Dissolved Oxygen (10/1/11-5/31/15)	SAMPLE MEASUREMENT	*****	*****	*****		*****	*****	mg/L			
	PERMIT REQUIREMENT	*****	*****		5.0 Min	*****	*****			1/day	Grab
Total Residual Chlorine	SAMPLE MEASUREMENT	*****	*****	*****	*****			mg/L			
	PERMIT REQUIREMENT	*****	*****		*****	Report Avg Mo	Report Daily Max			1/day	Grab
Total Suspended Solids	SAMPLE MEASUREMENT	*****	*****	*****	*****		*****	mg/L			
	PERMIT REQUIREMENT	*****	*****		*****	30 Avg Mo	*****			2/month	8-Hr Composite
$CBOD_5$	SAMPLE MEASUREMENT	*****	*****	*****	*****		*****	mg/L			
	PERMIT REQUIREMENT	*****	*****		*****	25 Avg Mo	*****			2/month	8-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).					
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS *(Report all violations on the "Non-Compliance Reporting Form")*

3800-FM-WSFR0462 9/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: Exelon Generation Co. LLC
ADDRESS: 1848 Lay Road
Delta, PA 17314
FACILITY: Exelon Generation Peach Bottom Nuclear Power Plant
LOCATION: Peach Bottom Township
York County
WATERSHED: 7-I and 7-K

PA0009733	005
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly
DMR Effective From: January 1, 2011
DMR Effective To: May 31, 2015
Permit Expires: May 31, 2015
Permit Application Due: November 30, 2014
___ Check Here if No Discharge
NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Fecal Coliform Oct 1 - Apr 30	SAMPLE MEASUREMENT	*****	*****		*****		*****				
	PERMIT REQUIREMENT	*****	*****	*****	*****	2000 Avg Mo	*****	CFU/ 100 ml		2/month	Grab
Fecal Coliform May 1 - Sep 30	SAMPLE MEASUREMENT	*****	*****		*****		*****				
	PERMIT REQUIREMENT	*****	*****	*****	*****	200 Avg Mo	*****	CFU/ 100 ml		2/month	Grab
Total Phosphorus	SAMPLE MEASUREMENT	*****	*****		*****		*****				
	PERMIT REQUIREMENT	*****	*****	*****	*****	2 Avg Mo	*****	mg/L		2/month	8-Hr Composite
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).

COMMENTS *(Report all violations on the "Non-Compliance Reporting Form")*

3800-FM-WSFR0462 9/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: Exelon Generation Co. LLC
ADDRESS: 1848 Lay Road
Delta, PA 17314
FACILITY: Exelon Generation Peach Bottom Nuclear Power Plant
LOCATION: Peach Bottom Township
York County
WATERSHED: 7-I and 7-K

PA0009733	006
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
			TO			

Reporting Frequency: Monthly
DMR Effective From: January 1, 2011
DMR Effective To: May 31, 2015
Permit Expires: May 31, 2015
Permit Application Due: November 30, 2014
___ Check Here if No Discharge
NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
	SAMPLE MEASUREMENT				*****	*****	*****				
Flow	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	*****	*****	*****	*****		1/month	Calculation
	SAMPLE MEASUREMENT	*****	*****		*****						
Total Suspended Solids	PERMIT REQUIREMENT	*****	*****	*****	*****	30 Avg Mo	100 Daily Max	mg/L		1/month	Grab
	SAMPLE MEASUREMENT	*****	*****		*****						
Oil and Grease	PERMIT REQUIREMENT	*****	*****	*****	*****	15 Avg Mo	20 Daily Max	mg/L		1/quarter	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).					
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS *(Report all violations on the "Non-Compliance Reporting Form")*

3800-FM-WSFR0462 Rev. 3/2010

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: Exelon Generation Co. LLC
ADDRESS: 1848 Lay Road
Delta, PA 17314
FACILITY: Exelon Generation Peach Bottom Nuclear Power Plant
LOCATION: Peach Bottom Township
York County
WATERSHED: 7-I and 7-K

PA0009733	009a
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Monthly
DMR Effective From: January 1, 2011
DMR Effective To: May 31, 2015
Permit Expires: May 31, 2015
Permit Application Due: November 30, 2014
___ Check Here if No Discharge
NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow	SAMPLE MEASUREMENT				*****	*****	*****				
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	*****	*****	*****	*****		1/discharge	Calculation
pH	SAMPLE MEASUREMENT	*****	*****			*****					
	PERMIT REQUIREMENT	*****	*****	*****	6.0 Min	*****	9.0 Max	S.U.		1/discharge	Grab
Total Suspended Solids	SAMPLE MEASUREMENT	*****	*****		*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	30 Avg Mo	100 Daily Max	mg/L		1/discharge	Grab
Oil and Grease	SAMPLE MEASUREMENT	*****	*****		*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	15 Avg Mo	20 Daily Max	mg/L		1/discharge	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS *(Report all violations on the "Non-Compliance Reporting Form")*

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

INSTRUCTIONS FOR COMPLETING DISCHARGE MONITORING REPORTS (DMRs)

General

One or more Discharge Monitoring Reports (DMRs) are attached to your permit for reporting the results of self-monitoring activities as required by your permit. You should make copies of the DMRs for your ongoing use, unless you elect to participate in the Department of Environmental Protection's (DEP's) electronic DMR (eDMR) program (see www.dep.state.pa.us/edmr).

- Reporting frequencies will vary depending on the monitoring frequencies listed in your permit, and are generally monthly, quarterly semi-annually and annually.
- Your reports must be received by the Department on the 28th day of the month following the end of the reporting period.
- Your permit may require submission of DMRs to other agencies, including the U.S. Environmental Protection Agency (EPA).
- If you receive DMRs in the mail from EPA, please discontinue use of DMR Form No. 3800-FM-WSFR0462 and begin using EPA's DMRs.
- DMRs will generally include pre-populated information for permittee name and address, facility location, permit number, outfall number, permit expiration date, parameter names, and permit requirements. If you identify any errors on a DMR issued by DEP, please contact the DEP regional office that issued your permit. If you identify any errors on a DMR issued by EPA, please contact DEP's Central Office at 717-787-6744. **DO NOT make changes to DMRs issued to you.**
- You may use computer-generated replicas of Form No. 3800-FM-WSFR0462 or of EPA's DMR if you receive prior approval from DEP and EPA. **DEP reserves the right to instruct you to discontinue the submission of computer-generated DMRs if the permit requirements you entered on the form are inaccurate.**

Instructions

1. Enter statistical results into each blank field below the "VALUE" column headers. Results must be reported in the same units shown on the DMR.
2. Sum the total number of excursions or exceedances of permit limits across the row for each parameter and enter the value into the "NO. EX" field. For example, if the permit contains limits of 6.0 S.U. (Minimum) and 9.0 S.U. (Maximum) for pH, and the Minimum and Maximum results are 5.9 S.U. and 9.1 S.U., respectively, enter "2" into the "NO. EX" field.
3. Report the actual sampling frequency and sample type utilized during the reporting period in the fields corresponding to "Frequency of Analysis" and "Sample Type", respectively.
4. Type the name of the principal executive officer (or an authorized agent designated by a principal executive officer) who is taking responsibility for the report, sign the report (should be in ink), enter the telephone number of the responsible individual, and record the date that the report was signed. Mail only original, signed copies of DMRs.
5. In the Comments section at the bottom of the DMR, you may write a brief summary of violations in this section; however, DEP requests that all violations during the monitoring period be reported in more detail on DEP's **Non-Compliance Reporting Form** (3800-FM-WSFR0440) and be submitted as an attachment to the DMR. Other uses of the Comments Section include explanations of attachments to the DMR, explanations for the unavailability of data, and brief summaries of issues that have affected operations or effluent quality during the monitoring period. Always consider attaching a letter or separate document to explain your situation in more detail.

No Discharge or No Data Available

If there was no discharge at all from an outfall during the monitoring period, check the "No Discharge" box on the top of the DMR. Complete the information above and below the table and mail the DMR to the appropriate agencies. Be sure to sign and date the DMR.

If there was no discharge of a specific parameter (e.g., if a chlorine limit is in the permit but chlorine was not used for disinfection during the entire reporting period), or if data are not available for a specific parameter for the entire reporting period, do not leave the DMR blank. Instead, report one of the following No Data Indicator (NODI) codes that apply to your situation in the appropriate value field, and **provide an explanation as an attachment to the DMR**:

A Use if you are exempted from monitoring the parameter because of a General Permit condition.

E Use if all samples or results are not available for the reporting period due to equipment failure or because sample collection was overlooked or samples could not be collected for the parameter.

GG Use if your permit requires sample collection and analysis only under certain conditions and those conditions were not met during the reporting period (e.g., report chlorine results only when chlorination system is used).

FF Other: use if there is any reason for the absence of data that is not covered by those above.

If you have at least one result for a parameter, the value should be reported and not a NODI code.

Calculations

The following explains how to calculate statistical values that are commonly required by permits:

Monthly Average – For Loading (lbs/day), sum the total of daily loadings and divide by the number of samples during the month. To calculate the daily loading, multiply the daily concentration (mg/l) by the flow (MGD) on the date of sampling and a conversion factor of 8.34. For Concentration, sum the total of daily concentrations and divide by the number of samples.

Weekly Average – For Loading (lbs/day), sum the total of average daily loadings during each week of the reporting period (beginning on a Sunday and ending on a Saturday) and divide by the number of samples during the week. For Concentration, sum the total of daily concentrations each week and divide by the number of samples. Report the maximum weekly average on the DMR.

Maximum Daily ("Daily Max") – Report the maximum concentration or load measured during a 24-hour period during the reporting period; if multiple measurements are taken daily, include all data in the analysis.

Instantaneous Maximum ("IMAX") – Report the maximum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Instantaneous Minimum ("Minimum") – Report the minimum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Total Monthly Load (lbs) – Sum the total of average daily loadings, divide by the number of samples during the month, and multiply by the number of days in the month.

Geometric Mean – Report the average of a set of *n* sample results given by the *n*th root of their product. If any result is zero (0), substitute 1 for the calculation. For example, five samples were analyzed with the following results: 20, 300, 400, 500, and 0. The calculation of geometric mean is as follows (note that you will need to use the power function on a calculator):

$$\sqrt[5]{20 \cdot 300 \cdot 400 \cdot 500 \cdot 1} = \sqrt[5]{1{,}200{,}000{,}000} = (1{,}200{,}000{,}000)^{1/5} = \mathbf{65}$$

Non-Detect Data

Conventional and Toxic Parameters

For calculating average values of data sets in which there are some "detections" (results at or above the laboratory reporting limit) and some "non-detect" data (results reported below the laboratory reporting limit), use a value of one-half (0.5)* the reporting limit for non-detect data. For example, four samples were analyzed with the following results: < 1.0, 2.0, < 1.0, and 1.0. Calculate the average value by assigning 0.5 to the non-detect values of < 1.0, resulting in an average of 1.0.

To report average and maximum values where all results are non-detect for the reporting period, use the highest reporting limit and include the less than (<) symbol. For example, if four sample results are < 1.0, < 2.0, < 1.0, and < 1.0, report the average and maximum results as < 2.

* Where the permit includes an effluent limitation for a parameter that is less than the most sensitive detection limit available, and the laboratory reports a value at or below the lowest level specified by the permit, you may use zero (0) in the calculation in lieu of one-half, if the parameter is identified in 25 Pa. Code Chapter 16, Appendix A, Tables 2A and 2B. In general, parameters with limitations that are less than the most sensitive detection limit will be identified in Part C of the permit, if applicable.

Bacteria Parameters

Report all "non-detect" (e.g., < 2) and "too numerous to count" (TNTC) (e.g., >2,000) results on DMR supplemental forms as reported by the laboratory. Do not report "TNTC" on supplemental forms, but instead report a value qualified with the">" symbol. Where a data set includes one or more "non-detect" and/or TNTC results, calculate the geometric mean by ignoring qualifying symbols, but report the value with the symbol. If a data set includes both">" and"<" qualifiers, the ">" qualifier takes precedence for reporting. For all "non-detect" values, specify in the Comments section of the DMR the maximum volume filtered at the laboratory.

Example 1 – Four results are determined, < 2, 10, 20, and 30. The geometric mean should be reported as < $(2 \bullet 10 \bullet 20 \bullet 30)^{0.25}$ = < 10. Specify the maximum volume filtered for the < 2 result in the DMR Comments.

Example 2 – Three results are determined, < 2, 1,000, and > 2,000. The geometric mean should be reported as > $(2 \bullet 1{,}000 \bullet 2{,}000)^{0.33}$ = > 159.

Rounding and Precision

Results should be reported at the same level of precision as the effluent limitation. For example, if a limit is 1.1 and the average value of your results is 1.05, report the value as 1.1. If there is no effluent limitation ("Monitor and Report" only), report the value to the same level of precision as reported by the laboratory or as recommended by the equipment manufacturer.

For more information please see the documents "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047) and "Management of Non-Detect Results for Discharge Monitoring Reports" (3800-FS-DEP4262), available on DEP's Web site.

3800-FM-WSFR0435 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I
Laboratories:

Month: Year:
NPDES Permit No.: PA0009733 Outfall No.: 001
Renewal application due **180 days** prior to expiration
This permit will expire on May 31, 2015

	Effluent Parameters																	
Day	Flow		pH		TRC		Temperature		Clamtrol CT-1		NALCO H150M							
	Q	MGD	Q	S.U.	Q	mg/L	Q	°F	Q	mg/L	Q	Mg/l	Q		Q		Q	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Avg																		

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

3800-FM-WSFR0435 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I
Laboratories:

Month: Year:
NPDES Permit No.: PA0009733 Outfall No.: 003
Renewal application due **180 days** prior to expiration
This permit will expire on May 31, 2015

Day	Effluent Parameters																	
	Flow		TSS		Oil and Grease													
	Q	*MGD*	Q	*mg/L*	Q	*mg/L*	Q		Q		Q		Q		Q		Q	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Avg																		

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: Signature:
Title: Date:

3800-FM-WSFR0435 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I
Laboratories:

Month: Year:
NPDES Permit No.: PA0009733 Outfall No.: 004
Renewal application due **180 days** prior to expiration
This permit will expire on May 31, 2015

	Effluent Parameters																			
Day	Flow		TSS		Oil and Grease															
	Q	*MGD*	Q	*mg/L*	Q	*mg/L*	Q		Q		Q		Q		Q		Q			
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				
25																				
26																				
27																				
28																				
29																				
30																				
31																				
Avg																				

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

3800-FM-WSFR0435 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I
Laboratories:

Month: Year:
NPDES Permit No.: PA0009733 Outfall No.: 006
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2015

	Effluent Parameters																	
Day	Flow		TSS		Oil and Grease													
	Q	MGD	Q	mg/L	Q	mg/L	Q		Q		Q		Q		Q		Q	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Avg																		

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: Signature:
Title: Date:

3800-FM-WSFR0435 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I
Laboratories:

Month: Year:
NPDES Permit No.: PA0009733 Outfall No.: 005
Renewal application due **180 days** prior to expiration
This permit will expire on May 31, 2015

Day	Effluent Parameters																	
	Flow		pH		DO		TRC		CBOD5		TSS		Fecal Coliform		Total Phosphorus			
	Q	*MGD*	Q	*S.U.*	Q	*mg/L*	Q	*mg/L*	Q	*mg/L*	Q	*mg/L*	Q	*CFU/100 ml*	Q	*mg/L*	Q	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Avg																		

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: Signature:
Title: Date:

3800-FM-WSFR0435 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I
Laboratories:

Month: Year:
NPDES Permit No.: PA0009733 Outfall No.: 009a
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2015

	Effluent Parameters																	
Day	Flow		pH		TSS		Oil and Grease											
	Q	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q		Q		Q		Q		Q	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Avg																		

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: Signature:
Title: Date:

INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

Use this form to report daily monitoring results for the parameters that must be monitored in effluent for compliance with the permit. Results for influent parameters should be reported on Form 3800-FM-WSFR0436.

1. Enter Facility Name, Municipality, County, Watershed No., Laboratories, Month, Year, NPDES Permit No., Outfall No., and Permit Expiration Date (it is noted that this information may be pre-populated if you have received this form with your permit). For Laboratories, list the names of all laboratories where samples were analyzed during the month, including on-site analysis.

2. In the column headers, below "Effluent Parameters," enter the names of parameters in the permit. Since limited space is provided, abbreviation may be necessary. If there are more parameters for an outfall than columns provided on the form, attach an additional sheet.

3. Below parameter names, and to the right of "Q" (Qualifier) column headers, enter the units associated each parameter (it is noted that this information may be pre-populated if you have received this form with your permit).

4. Enter monitoring results for parameters in the rows corresponding to the day of the month in which samples were collected. Enter results exactly as reported by the laboratory, or if measured with on-site equipment, to the level of precision recommended by the equipment manufacturer. Enter data qualifiers such as "<," ">," "J," and others in the "Q" column.

5. Calculate and report average values at the bottom of the table in accordance with the DMR Instructions (3800-FM-WSFR0463). Note – for bacteria, calculate and report the geometric mean value.

6. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

3800-FM-WSFR0438 Rev. 7/2010

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT
SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I

Month: _____ Year: _____
NPDES Permit No.: PA0009733
Renewal application due **180 days** prior to expiration
This permit will expire on May 31, 2015

SEWAGE SLUDGE/BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)

☐ Check here if there were no off-site removal events during the month

Date	Liquid Sewage Sludge/Biosolids Hauled Off-site			Dewatered Sewage Sludge/Biosolids Hauled Off-site			Sewage Sludge/Biosolids Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
		TOTAL:			TOTAL:			TOTAL:	

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION
(Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

Site Name				
Municipality				
County				
DEP Permit No.				
Type of Material*				
Dry Tons Applied/Disposed				
Type of Disposal/Use*				
Hauler Name				

*See Instructions for explanation

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

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

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.

Biosolids Production Information

2. For each off-site removal event for liquid sewage sludge or biosolids and for dewatered sewage sludge or biosolids, and for each event where dewatered sewage sludge or biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid) or tons (dewatered) removed or incinerated and the percent solids (e.g., 10%, 20%, etc.) Report only sewage sludge or biosolids that have been removed from the plant digesters and other solids which have been **permanently** removed from the treatment process. Do **not** include sewage sludge or biosolids from other facilities that are processed at your facility. (If there were no off-site removal events during the month, check the box above the table).

   Calculate dry tons for liquid sewage sludge or biosolids by multiplying the volume (gallons) by the percent solids and by a conversion factor of 0.0000417. For example, if 2,500 gallons of liquid biosolids is removed, and the percent solids is 3.0%, dry tons is calculated as:

   2,500 gallons x 3.0% x 0.0000417 = 0.31 dry tons

   Calculate dry tons for dewatered sewage sludge or biosolids by multiplying the tons dewatered by the percent solids and by a conversion factor of 0.01. For example, if 5 tons of dewatered biosolids is removed, and the percent solids is 50%, dry tons is calculated as:

   5 tons x 50% x 0.01 = 2.5 dry tons

   The **% Solids** of liquid or dewatered sewage sludge or biosolids must be determined periodically through laboratory testing. Do not estimate or guess this value. An acceptable test method is method 2540B in *Standard Methods for the Examination of Water and Wastewater*, 18th edition, where samples are dried at 103-105°C. Other references such as ASTM may have equivalent tests which are also acceptable.

Biosolids and Incinerator Ash Disposal and Beneficial Use Information

3. Report sewage sludge, biosolids, and ash disposal and beneficial use information by disposal/application site. There are columns for four possible sites per month - if more sites are needed, attach additional pages. For each Site Name, listed at the top of the column, enter the Municipality and County of the site, the DEP Permit No. (i.e., Biosolids permit number for land application, landfill waste management permit number, etc.), Type of Material (sewage sludge, biosolids, or incinerator ash), Dry Tons Applied/Disposed at the site for the month, Type of Disposal/Use (e.g., reed beds, agricultural utilization, composting, landfill, other treatment plant, etc.) and the name of the hauler (company or individual name).

4. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BYPASS REPORT FORM

Permittee Name: Exelon Generation Co. LLC
Permit No.: PA0009733 **Month/Year:** _____

Bypass Date	Beginning Time	End Time	Volume (MG)	Rainfall (Inches)

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).

_____ _____

Name and Title of Principal Executive Officer **Signature**

Re 30

3800-FM-WSFR0439 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT – CHEMICAL ADDITIVES USAGE

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I

Month: _____ Year: _____
NPDES Permit No.: PA0009733 Outfall No.: 001
Renewal application due **180 days** prior to expiration
This permit will expire on May 31, 2015

Day	Chemical Names*															
	Powerline 369660		Sodium Hypochlorite		Clamtrol CT-1		NALCO H150M		Zinc Phosphate		C-9		pHree Guard 4500		3D TRASAR 3DT222	
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Average																
Maximum																

**If reporting chemical use in gallons, indicate the % by weight of the chemical in solution in parentheses in the Chemical Name (e.g., CT-1 (10%)).*

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

3800-FM-WSFR0439 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT – CHEMICAL ADDITIVES USAGE

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I

Month: _____ Year: _____
NPDES Permit No.: PA0009733 Outfall No.: 001 (cont)
Renewal application due **180 days** prior to expiration
This permit will expire on May 31, 2015

Day	Chemical Names*															
	3D TRASAR 3DT124		NALCO 1315		NALCO 73310		3D TRASAR 3DT197									
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Average																
Maximum																

**If reporting chemical use in gallons, indicate the % by weight of the chemical in solution in parentheses in the Chemical Name (e.g., CT-1 (10%)).*

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

3800-FM-WSFR0439 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT – CHEMICAL ADDITIVES USAGE

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I

Month: _____ Year: _____
NPDES Permit No.: PA0009733 Outfall No.: 003
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2015

Day	Chemical Names*															
	Hypersperse MDC150		Hydrochloric Acid		Sodium Hydroxide		Hydrogen Peroxide		Sodium Chloride		Polyfloc AE1115P		Glycerin		Sodium Hypochlorite	
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Average																
Maximum																

**If reporting chemical use in gallons, indicate the % by weight of the chemical in solution in parentheses in the Chemical Name (e.g., CT-1 (10%)).*

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

3800-FM-WSFR0439 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT – CHEMICAL ADDITIVES USAGE

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I

Month: _____ Year: _____
NPDES Permit No.: PA0009733 Outfall No.: 003 (cont)
Renewal application due **180 days** prior to expiration
This permit will expire on May 31, 2015

Day	Chemical Names*															
	Citric Acid		Sodium Bisulfite		Klaraid IC1172P		Sodium Metabisulfite									
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Average																
Maximum																

**If reporting chemical use in gallons, indicate the % by weight of the chemical in solution in parentheses in the Chemical Name (e.g., CT-1 (10%)).*

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

3800-FM-WSFR0439 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT – CHEMICAL ADDITIVES USAGE

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I

Month: _____ Year: _____
NPDES Permit No.: PA0009733 Outfall No.: 004
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2015

Day	Chemical Names*															
	Sodium Sulfite		Trisodium Phosphate		Disodium Phosphate											
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Average																
Maximum																

**If reporting chemical use in gallons, indicate the % by weight of the chemical in solution in parentheses in the Chemical Name (e.g., CT-1 (10%)).*

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

3800-FM-WSFR0439 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT – CHEMICAL ADDITIVES USAGE

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I

Month: _____ Year: _____
NPDES Permit No.: PA0009733 Outfall No.: 005
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2015

Day	Chemical Names*															
	Sodium Hypochlorite		Aluminum Sulfate		Sodium Hydroxide											
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Average																
Maximum																

**If reporting chemical use in gallons, indicate the % by weight of the chemical in solution in parentheses in the Chemical Name (e.g., CT-1 (10%)).*

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

3800-FM-WSFR0439 7/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL REPORT – CHEMICAL ADDITIVES USAGE

Facility Name: Exelon Generation Peach Bottom Nuclear Power Plant
Municipality: Peach Bottom Township County: York
Watershed: 7-K and 7-I

Month: _____ Year: _____
NPDES Permit No.: PA0009733 Outfall No.: Closed Loop
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2015

Day	Chemical Names*															
	Corrshield NT4203		NALCO 73310		Spectrus NX1100		Spectrus NX1105		AZ 8100		Sodium Nitrite		Benzotriazole			
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Average																
Maximum																

**If reporting chemical use in gallons, indicate the % by weight of the chemical in solution in parentheses in the Chemical Name (e.g., CT-1 (10%)).*

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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).

Prepared By: _____ Signature: _____

Title: _____ Date: _____

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

INSTRUCTIONS FOR COMPLETING CHEMICAL ADDITIVES USAGE SUPPLEMENTAL REPORT

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., Outfall No. and Permit Expiration Date. A separate sheet is required for each outfall that receives chemical additives.

2. In the spaces below the Chemical Names header in the table, enter the chemical additives used at the facility. If more than eight additives are used per Outfall, add more sheets. If the chemical is introduced in liquid form and you will report usage in gallons, please include the percentage by weight of chemical in solution in parentheses (e.g., CT-1 (10%)).

3. Enter the daily usage rates for each chemical. Enter additives introduced in liquid form in the "gallons" column and additives in solid form (or if you have calculated the mass equivalent of liquid additives) under the "lbs" column.

4. Calculate and report the average and maximum usage rates for each chemical at the bottom of the table.

5. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

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

1. Date of Inspection _____

3. NPDES Permit # PA0009733

2. Facility Owner/Operator Name and Address:
Exelon Generation Co. LLC
300 Exelon Way
Kennett Square, PA 19348-2473
Tel: (610) 765-5514 Fax: (610) 765-5561

4. Facility Address and Location
Street 1848 Lay Road, Delta, PA 17314
Municipality Peach Bottom Township County York

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: _____

22. 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).

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

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

Who May Use This Form

This form is to be used by all PAG-03 permit holders to comply with the (1) annual inspection requirement in Section A.2.b.(1) concerning Appendix J facilities, and (2) Comprehensive Site Compliance Evaluation and Record Keeping requirement in Section C.3.c. of the General Permit. This form may also be used for facilities with individual NPDES permits.

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.

Permittees required to comply with Appendix J of the General Permit are eligible to conduct an Annual Inspection in lieu of monitoring. 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 discharge(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 General Permit or whether additional control measures are necessary. Any deficiencies found during the inspection are to be corrected promptly in accordance with Part C.3.c.(2) of the General Permit.

Permittees that need to comply with requirements other than Appendix J of the General Permit must use this form to comply with Comprehensive Site Evaluation and Recordkeeping requirement of the General Permit.

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.

3800-PM-WSFR0083t Rev. 7/2009
Additional Information

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

ADDITIONAL INFORMATION FOR THE REPORTING OF STORM WATER 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.
Exelon Generation Co. LLC	

FACILITY/LOCATION

Exelon Generation Peach Bottom Nuclear Power Plant, Peach Bottom Township, York County

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 measurable (> 0.1 inch) 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 climactic 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 separate sheet the drainage area and volume of runoff under item B. above for each outfall.

3800-FM-WSFR0189 3/2009

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SUPPLEMENTAL LABORATORY ACCREDITATION FORM[1]

Permittee Name: Exelon Generation Co. LLC

Address: 1848 Lay Road
Delta, PA 17314

PERMIT NUMBER	MONITORING PERIOD Year/Month/Day						
PA0009733				TO			

PARAMETER	ANALYSIS METHOD	LAB NAME	LAB ID NUMBER[2]

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 possibly of fine and imprisonment for knowing violations.

Name/Title Principal Executive Officer **Phone:** _____ **Signature of Principal Executive Officer or Authorized Agent**

_____ **Date:** _____ _____

[1] Submit this form with the first Discharge Monitoring Report (DMR), Annual Report or Recordkeeping and Reporting Form, where sample results are submitted to the Department for compliance purposes. You do not need to send this form to the Department again UNLESS there has been a change to the lab or method of analysis.

[2] For parameter(s) covered under accreditation-by-rule, submit the lab's registration number in lieu of an accreditation number.