

## DISCLAIMER

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5/5/03 (yes)

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Pennsylvania Department of Environmental Protection

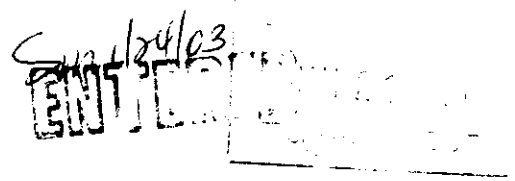
Lee Park, Suite 6010  
555 North Lane  
Conshohocken, PA 19428  
January 16, 2003

Southeast Regional Office

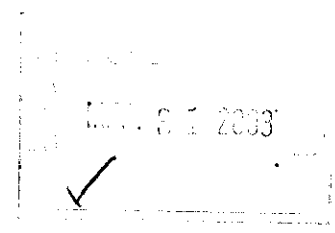
Phone: 610-832-6130  
Fax: 610-832-6133

CERTIFIED MAIL NO. 7001 2510 0005 8146 5278

Mr. David J. Piller  
Environmental Specialist  
Exelon Generation Company  
200 Exelon Generation Company  
Kennett Square, PA 19348



Re: Delaware Generating Station  
IW PA0011622  
File Type: NPDES  
City of Philadelphia  
Philadelphia County



Dear Mr. Piller:

Your permit is enclosed.

Please note revision to Other Requirements No. 18c (3), for stormwater outfalls 007, 008, and 011 through 015. The facilities with stormwater discharges associated with industrial activities must conduct annual inspection of the facility in addition to an annual monitoring.

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, P.O. 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.**

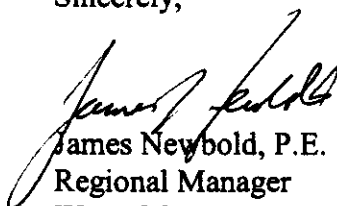


January 16, 2003

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

If you have any questions, please call Mr. Pravin Patel at 610-832-6090.

Sincerely,

  
James Newbold, P.E.  
Regional Manager  
Water Management

Enclosures

cc: EPA 3WP11 – Transmittal Letter Only  
DRBC  
City of Philadelphia Health Department – Transmittal Letter Only  
Operations Section  
Permits and Compliance Section  
File  
Re 30 (RN02)274-18AA

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
WATER MANAGEMENT PROGRAM

**AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

**NPDES PERMIT NO. PA 0011622**

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 - Client ID No. 147686

is authorized to discharge from a facility located at

Delaware Generating Station - Site ID No. 452177

1325 North Beach Street

Philadelphia, PA 19125

Municipality City of Philadelphia County Philadelphia

to receiving waters named Delaware Estuary-Zone 3

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B, and C hereof.


**THIS PERMIT SHALL EXPIRE AT MIDNIGHT, January 31, 2008**

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.
3. Complete application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date), using the appropriate NPDES permit application form.

In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports, will be automatically continued and will remain fully effective and enforceable pending the grant or denial of the application for permit renewal.

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	<u>01/16/03</u>	ISSUED BY	<u></u>
DATE PERMIT AMENDMENT ISSUED	_____	TITLE:	<u>Regional Manager</u>
			<u>Water Management</u>
DATE EFFECTIVE	<u>02/01/03</u>		

**DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**

Permit No. PA0011622

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

1. For Outfall 001, Latitude 39°58'04", Longitude 75°07'28", River Mile Index 101.01, Stream Code 00002

which receives waste water from Stormwater runoff from yard drains and steam tracing drips.

- a. The permittee is authorized to discharge during the period from            issuance through            expiration
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 2h).

Discharge Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/l)		Minimum Measurement Frequency	Required Sample Type	24 Hour Report Under A3.C(4)
	Average Monthly	Maximum Daily	Inst. Minimum	Average Monthly			
FLOW (GPD)	Monitor/Report				1/Month	Estimated	
TEMPERATURE					1/Month	I-S	
pH				Within Limits of 6.0 to 9.0 Standard Units at all times	1/Month	Grab	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 001

**DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**  
**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS**

Permit No. PA0011622

1. For Outfall 002 , Latitude 39°58'02" , Longitude 75°07'30" , River Mile Index 101.01 , Stream Code 00002

which receives waste water from industrial wastewater treatment plant

- a. The permittee is authorized to discharge during the period from            issuance through            expiration
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 2h).

Discharge Parameter	Effluent Limitations					Monitoring Requirements			
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/l)			Minimum Measurement Frequency	Required Sample Type	24 Hour Report Under A3.C(4)	
	Average Monthly	Maximum Daily	Inst. Minimum	Average Monthly	Maximum Daily				Inst. Maximum <sup>(2)</sup>
FLOW (MGD)	Monitor/Report	Monitor/Report				Continuous	Recorded		
TOTAL SUSPENDED SOLIDS				30	100	2/Month	8 Hour Comp		
TOTAL DISSOLVED SOLIDS				2,500	3,500	2/Month	8 Hour Comp		
IRON, TOTAL				Monitor/Report	Monitor/Report	1/Month	8 Hour Comp		
COPPER, TOTAL				Monitor/Report	Monitor/Report	1/Month	8 Hour Comp		
ZINC, TOTAL				Monitor/Report	Monitor/Report	1/Month	8 Hour Comp		
OIL AND GREASE				15	20	2/Month	Grab		
pH			Within Limits of 6.0 to 9.0 Standard Units at all times			Daily	Grab		

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 002  
 - 2a -

**DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**  
**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS**

Permit No. PA0011622

I. For Outfall 003, Latitude 39°58'02", Longitude 75°07'31", River Mile Index 101.01, Stream Code 00002

which receives waste water from traveling screen backwash

- a. The permittee is authorized to discharge during the period from \_\_\_\_\_ issuance through \_\_\_\_\_ expiration
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 2h).

This discharge shall consist solely of traveling screen backwash.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Not monitored

- 2b -

Re 30 (RN02)274-18C

**DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**  
**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS**

Permit No. PA0011622

1. For Outfall 004, Latitude 39°58'01", Longitude 75°07'33", River Mile Index 101.01, Stream Code 00002

which receives waste water from fan, equipment and bearing coolings

- a. The permittee is authorized to discharge during the period from \_\_\_\_\_ issuance through \_\_\_\_\_ expiration
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 2h).

Discharge Parameter	Effluent Limitations					Monitoring Requirements			
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/l)			Minimum Measurement Frequency	Required Sample Type	24 Hour Report Under A3.C(4)	
	Average Monthly	Maximum Daily	Inst. Minimum	Average Monthly	Maximum Daily				
FLOW (MGD)	Monitor/Report					1/Month	Estimated		
COPPER, TOTAL				Monitor/Report	Monitor/Report	1/Month	24 Hour Comp		
ZINC, TOTAL				Monitor/Report	Monitor/Report	1/Month	24 Hour Comp		
TEMPERATURE						1/Month	I-S		
pH						1/Month	Grab		

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 004



which receives waste water from fan cooling, emergency shower and city water tank overflow

- a. The permittee is authorized to discharge during the period from \_\_\_\_\_ issuance through \_\_\_\_\_ expiration
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 2h).

Discharge Parameter	Effluent Limitations						Monitoring Requirements		
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/l)				Minimum Measurement Frequency	Required Sample Type	24 Hour Report Under A3.C(4)
	Average Monthly	Maximum Daily	Inst. Minimum	Average Monthly	Maximum Daily	Inst. Maximum <sup>(2)</sup>			
FLOW (MGD)	Monitor/Report						1/Month	Estimated	
COPPER, TOTAL			Monitor/Report	Monitor/Report	Monitor/Report		1/Month	24 Hour Comp	
ZINC, TOTAL			Monitor/Report	Monitor/Report	Monitor/Report		1/Month	24 Hour Comp	
TEMPERATURE						110°F	1/Month	I-S	
pH			Within Limits of 6.0 to 9.0 Standard Units at all times				1/Month	Grab	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 005

**DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**

Permit No. PA0011622

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

1. For Outfall 006, Latitude 39°58'00", Longitude 75°07'36", River Mile Index 101.01, Stream Code 00002

which receives waste water from condenser cooling

- a. The permittee is authorized to discharge during the period from \_\_\_\_\_ issuance through \_\_\_\_\_ expiration
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 2h).

Discharge Parameter	Effluent Limitations					Monitoring Requirements			
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/l)			Minimum Measurement Frequency	Required Sample Type	24 Hour Report Under A3.C(4)	
	Average Monthly	Maximum Daily	Inst. Minimum	Average Monthly	Maximum Daily				Inst. Maximum <sup>(2)</sup>
FLOW (MGD)	Monitor/Report	Monitor/Report				1/Week	Estimated		
TOTAL RESIDUAL OXIDANT *					0.2	1/Week	Grab		
TEMPERATURE						1/Week	I-S		
pH			6.0			1/Week	Grab		

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 006  
 \* See Other Requirements 9, 10, and 12.

**DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**  
**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS**

Permit No. PA0011622

1. For Outfall 009, Latitude 39°57'59", Longitude 75°07'37", River Mile Index 101.01, Stream Code 00002

which receives waste water from Auxiliary boiler pump cooling and river water seepage

- a. The permittee is authorized to discharge during the period from \_\_\_\_\_ issuance through \_\_\_\_\_ expiration
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 2h).

Discharge Parameter	Effluent Limitations						Monitoring Requirements			
	Mass Units (lbs/day) <sup>(1)</sup>			Concentrations (mg/l)			Minimum Measurement Frequency	Required Sample Type	24 Hour Report Under A3.C(4)	
	Average Monthly	Maximum Daily	Inst. Minimum	Average Monthly	Maximum Daily	Inst. Maximum <sup>(2)</sup>				
FLOW (MGD)	Monitor/Report						1/Month	Estimated		
TOTAL SUSPENDED SOLIDS				30	100	125	1/Month	24Hour Comp		
IRON, TOTAL				Monitor/Report	Monitor/Report		1/Month	24Hour Comp		
COPPER, TOTAL				Monitor/Report	Monitor/Report		1/Month	24Hour Comp		
ZINC, TOTAL				Monitor/Report	Monitor/Report		1/Month	24Hour Comp		
OIL AND GREASE				15	20	30	1/Month	Grab		
TEMPERATURE						110°F	1/Month	I-S		
pH				Within Limits of 6.0 to 9.0 Standard Units at all times			1/Month	Grab		

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 009

**DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**

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

which receives stormwater from retired portion of Delaware Station.

For Outfall 007, Latitude 39°58'00", Longitude 75°07'36", River Mile Index 101.01, Stream Code 00002 which receives stormwater from retired portion of Delaware Station.

For Outfall 008, Latitude 39°58'00", Longitude 75°07'36", River Mile Index 101.01, Stream Code 00002 which receives stormwater from retired portion of Delaware Station.

- a. The permittee is authorized to discharge during the period from \_\_\_\_\_ issuance \_\_\_\_\_ through \_\_\_\_\_ expiration \_\_\_\_\_
- b. Based on the production data and anticipated stormwater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 2h and Other Requirements No. 18 in Part C).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)			Minimum Measurement Frequency	Required Sample Type
	Average Annual	Average Semi Annual	Maximum Daily		
CBOD <sub>5</sub>	Monitor/Report		Monitor/Report	1/Year	Grab
COD	Monitor/Report		Monitor/Report	1/Year	Grab
OIL AND GREASE	Monitor/Report		Monitor/Report	1/Year	Grab
pH	Monitor/Report		Monitor/Report	1/Year	Grab
TOTAL SUSPENDED SOLIDS	Monitor/Report		Monitor/Report	1/Year	Grab
TOTAL KjELDAHL NITROGEN	Monitor/Report		Monitor/Report	1/Year	Grab
TOTAL PHOSPHORUS	Monitor/Report		Monitor/Report	1/Year	Grab
IRON (DISSOLVED)	Monitor/Report		Monitor/Report	1/Year	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Catch Basin of Outfalls 007/008.

**DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**

Permit No. PA0011622

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

1. For Outfall 007, Latitude 39°58'00", Longitude 75°07'36", River Mile Index 101.01, Stream Code 00002

which receives stormwater from retired portion of Delaware Station.

For Outfall 011, Latitude 39°57'56", Longitude 75°07'35", River Mile Index 101.01, Stream Code 00002 which receives stormwater from retired portion of Delaware Station.

For Outfall 012, Latitude 39°57'58", Longitude 75°07'38", River Mile Index 101.01, Stream Code 00002 which receives stormwater from retired portion of Delaware Station.

For Outfall 013, Latitude 39°57'58", Longitude 75°07'38", River Mile Index 101.01, Stream Code 00002 which receives stormwater from retired portion of Delaware Station.

For Outfall 014, Latitude 39°57'58", Longitude 75°07'39", River Mile Index 101.01, Stream Code 00002 which receives stormwater from retired portion of Delaware Station.

For Outfall 015, Latitude 39°57'57", Longitude 75°07'42", River Mile Index 101.01, Stream Code 00002 which receives stormwater from retired portion of Delaware Station.

- a. The permittee is authorized to discharge during the period from \_\_\_\_\_ issuance \_\_\_\_\_ through \_\_\_\_\_ expiration
- b. Based on the production data and anticipated stormwater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 2h and Other Requirements No. 18 in Part C).

No monitoring required. However, facilities contributing the stormwater runoff to these outfalls must be included in annual inspection and comply with other requirements No. 18 on page 19 of the permit.

**DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES****PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONT'D)**

- c. All discharges of floating materials, oil, grease, scum and substances which produce tastes, odors, turbidity or settle to form deposits shall be controlled to levels which will not be inimical or harmful to the water uses to be protected as to human, animal, plant or aquatic life.

Footnotes (Refer to pages 2 to 2g)

- (1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured, recorded and reported on the Discharge Monitoring Report Form.
- (2) The Instantaneous Maximum Discharge Limitations are for compliance use by the Department only. Do not report instantaneous maximums on Discharge Monitoring Reports (DMRs) or supplemental DMRs unless specifically required on those forms to do so.

Supplemental Information

- (1) The effluent limitations for outfalls 001, 002, 004, 005, 006, and 009 were determined using an effluent discharge as follows:

<u>Outfall</u>	<u>Effluent Discharge</u> <u>(MGD)</u>
001	0.003
002	0.161
004	2.03
005	0.142
006	254
009	0.03

PA 000011622**PART C****OTHER REQUIREMENTS**

1. Monitoring data required by this permit shall be submitted monthly. A Discharge Monitoring Report (DMR) properly completed and signed in accordance with Part A, Section 5.b.(3) of this permit, must be submitted within 28 days after the end of each monthly report period. Notification of the designation of the responsible operator must be submitted to the permitting agency by the permittee within 60 days after the effective date of the permit and from time to time thereafter as the operator is replaced. The DMR must be sent to:

Regional Manager  
Water Management  
Department of Environmental Protection  
Lee Park, Suite 6010  
555 North Lane  
Conshohocken, PA 19428

And

Office of Compliance and Enforcement (3WP31)  
NPDES Branch  
Water Protection Division  
U.S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

2. A copy of this Report should also be sent to the following agency:

Delaware River Basin Commission  
P.O. Box 7360  
West Trenton, New Jersey 08628

3. If at anytime the Department determines that the discharge permitted herein creates a public nuisance or causes environmental harm to the receiving water of the Commonwealth, the Department may require the Permittee to adopt such remedial measures as will produce a satisfactory effluent. If the Permittee fails to adopt such remedial measures within the time specified by the Department, the right to discharge herein granted shall, upon notice by the Department, cease and become null and void.
4. Debris collected on the intake trash racks shall not be returned to the waterway.
5. There shall be no discharge of polychlorinated biphenyl (PCB) compounds from any outfall at any time. The compounds are defined as those commonly used for transformer fluid.

## PART C

## OTHER REQUIREMENTS (continued)

6. The permittee shall monitor for Copper, Total and Iron, Total on a monthly basis. In addition during any period involving treatment of chemical metal cleaning wastewater, the permittee shall do the following:
  - a. After commencing the release of chemical metal cleaning wastewater from the boiler units, a series of 8 hour composite samples shall be collected at Outfall 002 during the period when chemical metal cleaning wastewater is expected to be present in the discharge from the industrial wastewater treatment plant. The 8-hour composite samples shall be analyzed for Copper, Total and Iron, Total. The start and completion of the series of 8-hour composite samples shall be adjusted to take into account the period of time it takes for the chemical metal cleaning wastewater released from the boiler units to pass through the industrial wastewater treatment plant and reach Outfall 002.
  - b. During the period when chemical metal cleaning wastewater is being treated in the industrial wastewater treatment plant, the pH of the treated discharge shall be monitored on an hourly basis.
  - c. The allowable maximum daily effluent concentration of Copper (Total) shall not exceed a value determined by the mean plus one standard deviation of all data, (exclude data during chemical metal cleaning operations) obtained during the previous year to which will be added an adjustment of 0.09 mg/l.
  - d. The allowable maximum daily effluent concentration of Iron (Total) shall not exceed a value determined by the mean plus one standard deviation of all data (exclude data during chemical metal cleaning operations) obtained during the previous year.
  - e. The individual results of the 8-hour composite samples for Copper, Total and Iron, Total along with the pH monitoring data shall be included as a supplement to the Discharge Monitoring Report. The calculations relative to determining compliance with the Copper, Total and Iron, Total limits shall also be included as a supplement to the Discharge Monitoring Report.
7. Total Residual Oxidant may not be discharged from any single generating unit for more than two hours per day unless the discharger demonstrates to the Department that discharge for more than two hours is required for macro-invertebrate control. Simultaneous multi-unit disinfection is permitted.
8. The following requirements apply with respect to the thermal impact of the discharge from outfalls 001, 004, 005, 006, and 009 upon the Delaware Estuary Zone 3 at the boundary of the assigned thermal mixing zone.



## PART C

## OTHER REQUIREMENTS (continued)

The discharge shall not cause more than a 5°F rise of the temperature of the Delaware River above the average daily temperature shown below, or a maximum of 86°F, whichever is less.

<u>Date</u>	<u>Average Daily Temperature (°F)</u>
January 1	41
February 1	35
March 1	38
April 1	46
May 1	58
June 1	71
July 1	79
August 1	81
September 1	79
September 15	77
October 1	70
November 1	61
December 1	50
December 15	45

The assigned thermal mixing zone for all outfalls wherein the stream temperature criteria may be exceeded shall consist of an area in the Delaware River defined by a length of 1,600 feet and a width of 400 feet from the point of discharge of outfall 006.

9. For Outfall 006, Total Residual Oxidant may not be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge Total Residual Oxidation at any one time unless the Permittee can demonstrate to the Department that the units in a particular location cannot operate at or below this level of oxidants.
10. The term Maximum Daily Concentration as it relates to Total Residual Oxidant (TRO) discharge means the average analysis made over a single period of TRO release, which does not exceed two hours.
11. The temperature of the water supply withdrawn from the Delaware River shall be monitored at the intake on a monthly basis using the i-s procedure. The temperature data for each month shall be reported on the Discharge Monitoring Report.
12. The term "Total Residual Oxidants" for water with bromides generated through the use of chemical additive Betz Specturs OX1200 is defined as the value obtained using the amperometric method for total residual chlorine described in 40 C.F.R. Section 136. This method is described in Standard Methods as the "amperometric titration" method.

**PART C****OTHER REQUIREMENTS (continued)**

13. Analysis for the following pollutant(s) shall be performed using the following test method(s) contained in 40 C.F.R. Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants, or any approved test method(s) of equal or greater sensitivity.

<u>Parameter</u>	<u>Test Method</u>
Copper, Total	220.2 (AA, furnace)
Iron, Total	236.2 (AA, furnace)
Lead, Total	239.2 (AA, furnace)
Zinc, Total	289.2 (AA, furnace)

14. The assigned mixing zone for Outfall 002 shall consist of an area in the Delaware River defined by a radius of 100 feet from the point of discharge of Outfall 002 for total dissolved solids.
15. The Department may identify and require certain discharge specific data to be submitted before the expiration date of this permit. Upon notification by the Department, the permittee will have 12 months from the date of the notice to provide the required data. These data, along with any other data available to the Department, will be used in completing the Watershed TMDL/WLA Analysis and in establishing discharge effluent limits.
16. The additives and usage rate currently approved are the following:
- Betz Bio-Trol 88 P – The limits for Total Residual Oxidant at Outfall 002 will govern its usage rate.
17. Chemical additives to control corrosion, scaling, algae, slime, fouling or oxygen, etc., and blowdown discharge rates shall be managed by the permittee to ensure that toxic effects in the receiving stream are prevented. These also include substances/compounds added to the wastewater such as polymers, water softeners, flocculents, coagulants, emulsion breakers, dispersants, and oxygen scavengers.

Usage rates shall be consistent with the quantities and rates approved by the Department and shall be limited to the minimum amount necessary to accomplish the intended purposes of chemical addition.

Accurate usage records (name of additive, quantity added, date added) of any approved chemical additive and blowdown discharge volumes must be maintained on the Chemical Additive Reporting Form and kept on site by the permittee. To the maximum extent possible, sampling and laboratory analytical procedures for these chemicals are to conform with the "Sampling and Analytical Testing Instructions for Industrial Discharges" routinely used for completion of NPDES permit applications.

## PART C

**OTHER REQUIREMENTS (continued)**

Whenever a change in chemical additive or increase in usage rates is desired by the permittee, a written notification shall be submitted to the Department at least sixty (60) days prior to the proposed use of the chemical. All required data must be provided on the form for each new or changed chemical additive or proposed change in the usage rate.

As a minimum, the following information must be provided on the whole product (if data on the whole product is not available, monitoring data for all active ingredients in the product shall be provided):

1. Trade names of additive.
2. Name and address of additive manufacturer.
3. Material Safety Data Sheet (MSDS) or other available information on mammalian or aquatic toxicological effects.
4. Bioassay data including the 96-hour LC50 on the whole product.
5. Proposed average and maximum additive usage rates in lbs/day.
6. A flow diagram showing the point of chemical addition and the affected outfalls.
7. The expected concentration of the product at the final outfall.
8. The product density for liquids (lb/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 of or decomposition of the additive in the aquatic environment.
12. Any other data or information the permittee believes would be helpful to the Department in completing its review.

Based on the information presented, the Department will decide whether specific effluent limitations for one or more active ingredients or other control requirements are necessary. Where necessary, the Department may establish permit limits, require other controls or deny use of these chemicals. If the information is complete, use of the proposed chemical additive or usage rate will be considered approved 60 days after the date of notification to the Department. If the notification is incomplete or the Department notifies the permittee that the proposed usage rate will cause violations of water quality standards, the permittee will be advised that a permit amendment is required and would likely be denied. All such letters and notifications must be kept on site with the required daily chemical usage data.

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 thoroughly investigate the use of alternative products or chemicals to avoid the use of the carcinogens. If no alternatives are available, the permittee must submit written documentation as

## PART C

## OTHER REQUIREMENTS (continued)

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. Based on the information presented, the Department will decide whether specific effluent limitations or other control requirements are necessary for the chemicals, and where necessary, establish permit limits, require other controls or deny use of these chemicals.

18. Requirements Applicable to Storm Water Only Outfall(s)A. Prohibition of Non-Storm Water Discharges

1. Except as provided in A.2., all storm water outfall(s) shall be composed entirely of uncontaminated storm water.
2. The following non-storm water discharges may be authorized to be discharged through this outfall(s): discharges from fire fighting activities, irrigation drainage, lawn watering, routine external building washdown which does not use detergents or other compounds, air conditioning condensate, springs, uncontaminated groundwater and foundation or footing drains where flows are not contaminated with process materials such as solvents.
3. This permit does not authorize any discharge (stormwater or non-stormwater), which contains any pollutant, which 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.
4. This permit does not authorize the discharge of any pollutant resulting from an on-site spill; any such occurrence is subject to Sections A.3.c and of this permit.

B. Preparedness, Prevention and Contingency Plans1. Development of Plan

Operators of facilities shall develop within 180 days a Preparedness, Prevention and Contingency (PPC) Plan in accordance with 25 Pa. Code § 101.3 and the "Guidelines for the Development and Implementation of Environmental Emergency Response Plans" and "Supplemental Guidance for Development and Implementation of Preparedness, Prevention and Contingency (PPC) Plans Under The National Pollutant Discharge Elimination System (NPDES) Storm Water Permitting Program". The PPC plan shall identify potential sources of pollution, which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the PPC Plan

**PART C****OTHER REQUIREMENTS (continued)**

shall describe the implementation of practices, including best management practices (BMPs), which are to be used to reduce the pollutants in storm water discharges. BMP's include operating procedures and practices to control plant site runoff, spillage or leaks, sludges or waste disposal, or drainage from raw material storage.

**2. 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 which are classified as "Section 313 Water Priority Chemicals" shall be effective unless it has been reviewed and certified by a Registered Professional Engineer.

**3. Comprehensive Site Compliance Evaluations and Record Keeping**

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

- a. Areas contributing to a storm water discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural 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.

## PART C

## OTHER REQUIREMENTS (continued)

- 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 fifteen (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 ninety (90) days after the inspection.

C. Storm Water Monitoring Requirements1. Sampling Requirements

- a. For discharges from holding ponds or other impoundments with a retention period greater than 24 hours, (estimated by dividing the volume of the detention pond by the estimated volume of water discharged during the 24 hours previous to the time that the sample is collected) a minimum of one grab sample may be taken.
- b. All samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event.
- c. Grab samples shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge and the discharger shall submit on the Department form entitled, "Additional Information for the Reporting of Storm Water Discharge Monitoring," a description of why a grab sample during the first 30 minutes was impracticable.
- d. Samples taken in compliance with the monitoring requirements specified above shall be taken from the discharge at each outfall.

When a facility has two or more outfalls that, based on a consideration of features and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may test the effluent of one of such outfalls and report that the quantitative data also applies to the substantially identical outfalls. In addition, for each outfall that the permittee believes is representative, an estimate of the runoff coefficient of the drainage area

## PART C

## OTHER REQUIREMENTS (continued)

(e.g. low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided.

2. Sampling Waiver

When the discharger is unable to collect samples due to adverse climatic conditions, the discharger must submit in lieu of sampling data a description of why samples could not be collected, including available documentation of the event. Adverse climatic conditions which may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.). This information shall be submitted on the attached Department form entitled, "Additional Information for the Reporting of Storm Water Discharge Monitoring." Dischargers are precluded from exercising this waiver more than once during a two-year period.

3. Annual Inspection

- a. Facilities with storm water discharges associated with industrial activity must conduct annual inspections of the facility in addition to an annual monitoring for the parameters listed on pages 2g and 2h of this permit.
- b. In addition to the Comprehensive Site Compliance Evaluation and Recordkeeping, the inspection shall include a visual inspection of sediment present in the outfalls associated with the facility subject to this permit, and where possible, an identification of substances present in the sediment. The annual inspection must identify area(s) contributing pollutant(s) to storm water discharge(s) and evaluate whether measures to reduce pollutant loadings identified in a Preparedness Prevention and Contingency (PPC) Plan are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are necessary. Any deficiencies found during the inspection shall be corrected within 90 days.

Re 30 (RN02)274-18W





PERMITTEE NAME ADDRESS (include Facility Name / Location if different)  
 PRIMARY FACILITY: **DELAWARE GENERATING STATION - SITE ID NO. 452177**  
 CLIENT: **EXELON GENERATION COMPANY**  
 ADDRESS: **200 EXELON WAY KSA-1E**  
 MUNICIPALITY: **CITY OF PHILADELPHIA**  
 COUNTY: **PHILADELPHIA**

1325 NORTH BEACH STREET  
 PERMIT NUMBER: **PA0011622**  
 DISCHARGE NUMBER: **002**  
 MONITORING PERIOD  
 YEAR MO DAY TO YEAR MO DAY

Southeast Region  
 Facsimile

NOTE: Read instructions before completing this form

Parameter	QUANTITY OR LOADING				QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE MONTHLY	MAXIMUM DAILY	UNITS	MINIMUM	AVERAGE MONTHLY	MAXIMUM DAILY	UNITS					
FLOW	Sample Measurement				XXXX	XXXX	XXXX					
	Permit Requirement	MONITOR/REPORT	MGD	XXXX	XXXX	XXXX	XXXX		CONT.		RECD.	
TOTAL SUSPENDED SOLIDS	Sample Measurement	XXXX	XXXX	XXXX	XXXX							
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	30	100	MG/L	2/MONTH		8 HC	
TOTAL DISSOLVED SOLIDS	Sample Measurement	XXXX	XXXX	XXXX	XXXX							
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	2,500	3,500	MG/L	2/MONTH		8 HC	
IRON, TOTAL	Sample Measurement	XXXX	XXXX	XXXX	XXXX							
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L	1/MONTH		8 HC	
COPPER, TOTAL	Sample Measurement	XXXX	XXXX	XXXX	XXXX							
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L	1/MONTH		8 HC	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				TELEPHONE			
TYPE OR PRINT					AREA CODE				DATE			

PERMIT EXPIRES **01/31/08** SUBMIT RENEWAL BY **07/31/07**

Number of Days of Discharge: \_\_\_\_\_  
 EPA FORM 3320-1 (Rev 9 - 88) previous edition may be used  
 Re 30 (RN02)274-18K

PERMITTEE NAME ADDRESS (include Facility Name / Location if different)  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**  
 PRIMARY FACILITY: DELAWARE GENERATING STATION - SITE ID NO. 452177

CLIENT: EXELON GENERATION COMPANY  
 - CLIENT ID NO. 147686

ADDRESS: 200 EXELON WAY KSA-1E  
 KENNETT SQUARE, PA 19348

MUNICIPALITY: CITY OF PHILADELPHIA  
 (1325 NORTH BEACH STREET)

COUNTY: PHILADELPHIA

PERMIT NUMBER: PA0011622

DISCHARGE NUMBER: 002

MONITORING PERIOD  
 YEAR MO DAY TO YEAR MO DAY

DATE

DATE

DATE

DATE

NOTE: Read Instructions before completing this form

Parameter	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE MONTHLY	MAXIMUM	UNITS	MINIMUM INST.	AVERAGE MONTHLY	MAXIMUM DAILY				UNITS
ZINC, TOTAL	Sample Measurement	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX		MONITOR/REPORT	MG/L	1/MONTH	8 HC	
OIL and GREASE	Sample Measurement	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	15	20	MG/L	2/MONTH	GRAB	
pH	Sample Measurement	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	6.0	INST. 9.0	STD	DAILY	GRAB	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Sample Measurement									
	Permit Requirement									
TYPE OR PRINT	Sample Measurement									
	Permit Requirement									
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	Sample Measurement									
	Permit Requirement									
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 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)							SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	DATE	
							TELEPHONE NUMBER	YEAR	MO	DAY
							PERMIT EXPIRES 01/31/08		SUBMIT RENEWAL BY 0731/07	

Number of Days of Discharge: \_\_\_\_\_  
 EPA FORM 3320-1 (Rev 9 - 88) previous edition may be used  
 Re 30 (RN02)274-18L

(REPLACES EPA FORM T -40 WHICH MAY NOT BE USED)

Page 2 of 2



PERMITTEE NAME ADDRESS (include Facility Name / Location if different)  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 PRIMARY FACILITY: DELAWARE GENERATING STATION - SITE ID NO. 452177  
 DISCHARGE MONITORING REPORT (DMR)  
 Southeast Region  
 Facsimile

1325 NORTH BEACH STREET  
 CLIENT: EXELON GENERATION COMPANY - CLIENT  
 ID NO. 147686  
 PERMIT NUMBER  
 DISCHARGE NUMBER  
 004

ADDRESS: 200 EXELON WAY KSA-1E  
 KENNETT SQUARE, PA 19348  
 MONITORING PERIOD  
 YEAR MO DAY TO YEAR MO DAY

MUNICIPALITY: CITY OF PHILADELPHIA  
 COUNTY: PHILADELPHIA

NOTE: Read instructions before completing this form

Parameter	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE MONTHLY	MAXIMUM	UNITS	MINIMUM INST.	AVERAGE MONTHLY	MAXIMUM DAILY			
FLOW	Sample Measurement Permit Requirement	XXXX		XXXX	XXXX	XXXX			
	Sample Measurement Permit Requirement	XXXX	MGD	XXXX	XXXX	XXXX		1/MONTH	EST.
COPPER, TOTAL	Sample Measurement Permit Requirement	XXXX		XXXX	MONITOR/REPORT	MONITOR/REPORT			
	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	XXXX	MG/L		1/MONTH	24 HC
ZINC, TOTAL	Sample Measurement Permit Requirement	XXXX		XXXX	MONITOR/REPORT	MONITOR/REPORT			
	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	XXXX	MG/L		1/MONTH	24 HC
TEMPERATURE	Sample Measurement Permit Requirement	XXXX		XXXX	XXXX				
	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	XXXX	°F		1/MONTH	I-S
pH	Sample Measurement Permit Requirement	XXXX		XXXX	XXXX	STD			
	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	XXXX	INST. MAX. 9.0		1/MONTH	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 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 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years)

TYPE OR PRINT  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
 AREA CODE  
 NUMBER  
 TELEPHONE  
 DATE

PERMIT EXPIRES 01/31/08  
 SUBMIT RENEWAL BY 07/31/07

Number of days of discharge: \_\_\_\_\_

PERMIT FEE NAME ADDRESS (if applicable)  
 Facility Name / Location if different  
 PRIMARY FACILITY: DELAWARE GENERATING STATION - SITE ID NO. 452177

005  
 DISCHARGE NUMBER

1325 NORTH BEACH STREET  
 CLIENT: EXELON GENERATION COMPANY -  
 CLIENT ID NO. 147686  
 ADDRESS: 200 EXELON WAY KSA-1E  
 KENNETT SQUARE, PA 19348  
 MUNICIPALITY: CITY OF PHILADELPHIA  
 COUNTY: PHILADELPHIA

PA0011622  
 PERMIT NUMBER  
 MONITORING PERIOD  
 YEAR MO DAY TO YEAR MO DAY

005  
 DISCHARGE NUMBER

NOTE: Read instructions before completing this form

Parameter	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE MONTHLY	MAXIMUM	UNITS	MINIMUM INST.	AVERAGE MONTHLY	MAXIMUM DAILY			
FLOW	Sample Measurement Requirement	XXXX	MGD	XXXX	XXXX	XXXX		1/MONTH	EST.
COPPER, TOTAL	Sample Measurement Requirement	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT		1/MONTH	24 HC
ZINC, TOTAL	Sample Measurement Requirement	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT		1/MONTH	24 HC
TEMPERATURE	Sample Measurement Requirement	XXXX	XXXX	XXXX	XXXX	INST. MAX. 110		1/MONTH	I-S
pH	Sample Measurement Requirement	XXXX	XXXX	XXXX	XXXX	INST. MAX. 9.0		1/MONTH	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	DATE	
TYPE OR PRINT	COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)			PERMIT EXPIRES 01/31/08			SUBMIT RENEWAL BY 07/31/07		

Sample is taken at funnel from: \_\_\_\_\_

PERMITTEE NAME ADDRESS (include Facility Name / Location if different)  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)  
 PRIMARY FACILITY: DELAWARE GENERATING STATION WATER - SITE ID NO. 452177  
 Southeast Region  
 Facsimile  
 CLIENT: EXELON GENERATION COMPANY  
 1325 NORTH BEACH STREET  
 PERMIT NUMBER PA0011622  
 DISCHARGE NUMBER 006  
 ADDRESS: 200 EXELON WAY KSA-1E  
 MONITORING PERIOD  
 KENNETH SQUARE, PA 19348  
 YEAR MO DAY TO YEAR MO DAY  
 MUNICIPALITY: CITY OF PHILADELPHIA  
 COUNTY: PHILADELPHIA

NOTE: Read instructions before completing this form

Parameter	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	AVERAGE MONTHLY	MAXIMUM DAILY	UNITS	MINIMUM INST.	MAXIMUM DAILY	MAXIMUM INST.				UNITS
FLOW	Sample Measurement Permit Requirement	MONITOR/REPORT	MGD	XXXX	XXXX	XXXX		1/WEEK	EST.	
	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	XXXX	XXXX				
TOTAL RESIDUAL OXIDANTS (TRO)	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	0.2	XXXX		1/WEEK	GRAB	
	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	XXXX	XXXX				
TEMPERATURE	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	XXXX	110		1/WEEK	I-S	
	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	XXXX	INST. MAX. 9.0		1/WEEK	GRAB	
pH	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	6.0	STD				
	Sample Measurement Permit Requirement	XXXX	XXXX	XXXX	XXXX					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Sample Measurement Permit Requirement									
	Sample Measurement Permit Requirement									
TYPE OR PRINT	Sample Measurement Permit Requirement									
	Sample Measurement Permit Requirement									
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	Sample Measurement Permit Requirement	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 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)				AREA CODE	NUMBER	YEAR	MO	DAY
	Sample Measurement Permit Requirement									

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
 PERMIT EXPIRES 01/31/08  
 TELEPHONE  
 DATE  
 SUBMIT RENEWAL BY 07/31/07

PERMITTEE NAME: ADDRESS (include Facility Name / Location if different)  
 PRIMARY FACILITY: DELAWARE GENERATING STATION - SITE ID NO. 452177

Southeast Region  
 Facsimile

STORMWATER RUNOFF  
 1325 NORTH BEACH STREET  
 CLIENT: EXELON GENERATION COMPANY - CLIENT ID  
 NO. 147686  
 ADDRESS: 200 EXELON WAY KSA-1E  
 KENNETH SQUARE, PA 19348  
 MUNICIPALITY: CITY OF PHILADELPHIA  
 COUNTY: PHILADELPHIA

PA0011622  
 PERMIT NUMBER

(007/008)  
 DISCHARGE NUMBER

MONITORING PERIOD  
 YEAR MO DAY TO YEAR MO DAY

NOTE: Read instructions before completing this form

Parameter	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE ANNUAL	MAXIMUM DAILY	UNITS				
CBOD <sub>5</sub>	Sample Measurement	XXXX	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L		1/YEAR	GRAB
COD	Sample Measurement	XXXX	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L		1/YEAR	GRAB
OIL AND GREASE	Sample Measurement	XXXX	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L		1/YEAR	GRAB
pH	Sample Measurement	XXXX	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L		1/YEAR	GRAB
TOTAL SUSPENDED SOLIDS	Sample Measurement	XXXX	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	STD UNITS		1/YEAR	GRAB
TOTAL KJELDAHL NITROGEN	Sample Measurement	XXXX	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L		1/YEAR	GRAB
TOTAL PHOSPHORUS	Sample Measurement	XXXX	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L		1/YEAR	GRAB
IRON (DISSOLVED)	Sample Measurement	XXXX	XXXX	XXXX	XXXX						
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L		1/YEAR	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_ DATE: \_\_\_\_\_

TYPE OR PRINT: \_\_\_\_\_ SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: \_\_\_\_\_

PERMIT EXPIRES: 01/31/08 SUBMIT RENEWAL BY: 07/31/07

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here): \_\_\_\_\_

EPA FORM 3320-1 (Rev 9 - 88) previous edition may be used (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

Re 30 (RN02)274-185 Page 1 of 1

PERMITTEE NAME ADDRESS (include Facility Name / Location if different)  
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 PRIMARY FACILITY: DELAWARE GENERATING STATION - SITE ID NO. 452177  
 DISCHARGE MONITORING REPORT (DMR)  
 CLIENT: EXELON GENERATION COMPANY  
 1325 NORTH BEACH STREET  
 PERMIT NUMBER PA0011622  
 DISCHARGE NUMBER 009  
 ADDRESS: 200 EXELON WAY KSA-1E  
 MONITORING PERIOD  
 KENNETH SQUARE, PA 19348  
 YEAR MO DAY TO YEAR MO DAY  
 MUNICIPALITY: CITY OF PHILADELPHIA  
 COUNTY: PHILADELPHIA

Southeast Region  
 Facsimile

NOTE: Read instructions before completing this form

Parameter	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE MONTHLY	MAXIMUM DAILY	UNITS	MINIMUM	AVERAGE MONTHLY	MAXIMUM DAILY			
FLOW	Sample Measurement	XXXX		XXXX	XXXX	XXXX			
	Permit Requirement	MONITOR/REPORT		XXXX	XXXX	XXXX		1/MONTH	EST.
TOTAL SUSPENDED SOLIDS	Sample Measurement	XXXX		XXXX					
	Permit Requirement	XXXX		XXXX	30	100	MG/L	1/MONTH	24 HC
IRON, TOTAL	Sample Measurement	XXXX		XXXX					
	Permit Requirement	XXXX		XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L	1/MONTH	24 HC
COPPER, TOTAL	Sample Measurement	XXXX		XXXX					
	Permit Requirement	XXXX		XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L	1/MONTH	24 HC
ZINC, TOTAL	Sample Measurement	XXXX		XXXX					
	Permit Requirement	XXXX		XXXX	MONITOR/REPORT	MONITOR/REPORT	MG/L	1/MONTH	24 HC
OIL AND GREASE	Sample Measurement	XXXX		XXXX					
	Permit Requirement	XXXX		XXXX	15	20	MG/L	1/MONTH	GRAB
TEMPERATURE	Sample Measurement	XXXX		XXXX					
	Permit Requirement	XXXX		XXXX	XXXX	110	°F	1/MONTH	1-S
pH	Sample Measurement	XXXX		XXXX					
	Permit Requirement	XXXX		XXXX	XXXX	9.0	STD	1/MONTH	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY WITH 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 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
TYPE OR PRINT									

PERMIT EXPIRES 01/31/08  
 SUBMIT RENEWAL BY 07/31/07  
 COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)