

**PECO NUCLEAR**

A Unit of PECO Energy

Nuclear Group Headquarters
200 Exelon Way
Kennett Square, PA 19348

October 31, 2000

Docket Nos. 50-352
50-353License Nos. NPF-39
NPF-85

NPDES Permit No. PA0051926

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

Subject: Limerick Generating Station (LGS), Units 1 & 2
Changes to National Pollutant Discharge
Elimination System Permit

Dear Sir/Madam:

This letter is being submitted in accordance with the Limerick Generating Station (LGS), Units 1 and 2, Environmental Protection Plan (EPP) Section 3.2, which stipulates that the NRC shall be notified within 30 days following the date of approval of a change to the National Pollutant Discharge Elimination System (NPDES) permit.

By letter dated September 27, 2000, the Pennsylvania Department of Environmental Protection (PA DEP) re-issued the LGS NPDES Permit effective October 1, 2000. The NRC was previously notified regarding the pending changes to the NPDES permit by letter dated June 30, 1999.

Accordingly, this letter provides the required notification of a change to the NPDES permit in accordance with the requirements of the LGS EPP. A copy of the PA DEP letter issuing the LGS NPDES permit is attached, along with a copy of the permit.

COOL

Changes to National Pollutant Discharge
Elimination System Permit
October 31, 2000
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If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,



J. A. Hutton, Jr.
Director - Licensing

Attachment

cc: H. J. Miller, Administrator, Region I, USNRC
A. L. Burritt, USNRC Senior Resident Inspector, LGS



Pennsylvania Department of Environmental Protection

Lee Park, Suite 6010
555 North Lane
Conshohocken, PA 19428

September 27, 2000

Southeast Regional Office

610-832-6130
Fax 610-832-6133

Mr. Robert M. Matty
Supervisor, Environmental Management
PECO Energy Company
2301 Market Street
Philadelphia, PA 19101

Re: Industrial Waste
Limerick Generating Station
NPDES Permit No. PA0051926
APS ID No. 44440
Limerick Township
Montgomery County

Dear Mr. Matty:

Your permit is enclosed. Review it carefully, with special attention to the effluent limitations, monitoring requirements, and other requirements in Part C of the permit.

Based on aquatic toxicity data for the chemical additive Foamtrol AF 1441 a usage rate of 900 lb/day average and 1,800 lb/day maximum daily is not permissible. The permit includes a rate of 450 lb/day average and 900 lb/day maximum daily.

A Discharge Monitoring Report (DMR) and Supplemental Reporting Forms are included. The reporting forms must be submitted to the Department as instructed in the permit and the enclosed Instruction Sheet.

Please take the time to complete the enclosed questionnaire and return it in the pre-addressed, stamped envelope. Your response will be taken into account as we consider ways of improving our service to the public and regulated community. Thank you for your cooperation.

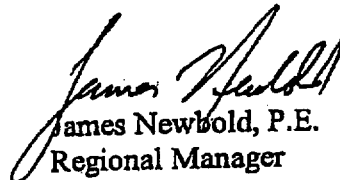


Mr. Robert M. Matty

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If you have any questions, please call Mr. Sohan L. Garg at 610-832-6091.

Sincerely


James Newbold, P.E.
Regional Manager
Water Management

Enclosures: Permit
Discharge Monitoring Report
Worksheet for TSS Net Determination

cc: U.S. Environmental Protection Agency
Mr. Brand, DRBC
Montgomery County Health Department
Limerick Township
Re 30 (SMC00)70-4H

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
WATER MANAGEMENT PROGRAM

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

NPDES PERMIT NO. PA PA0051926

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.,

PECO Energy Company - Client ID No. 75036

is authorized to discharge from a facility located at

Limerick Generating Station - Site ID No. 475813

Evergreen and Sanatoga Roads

Pottstown, PA 19464

Municipality Limerick Township County Montgomery

to receiving waters named Schuylkill River, Possum Hollow Run, and Sanatoga Creek

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

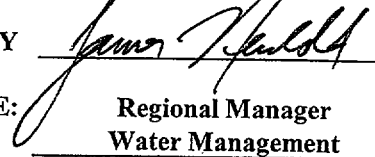
THIS PERMIT SHALL EXPIRE AT MIDNIGHT, September 27, 2005

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>09/27/2000</u>	ISSUED BY	<u></u>
DATE PERMIT AMENDMENT ISSUED	<u> </u>	TITLE:	<u>Regional Manager</u> <u>Water Management</u>
DATE EFFECTIVE	<u>10/01/2000</u>		

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 001 , Latitude 40°13'13" , Longitude 75°35'22" , River Mile Index 48.01 , Stream Code 00833

which receives waste water from cooling towers, spray pond, holding pond, treated radwaste, laundry drain, filter backwash and treated sewage.

- 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 2o).

Discharge Parameter	Effluent Limitations						Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		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 ⁽²⁾			
FLOW (MGD)							1/Week	Measured	
TOTAL SUSPENDED SOLIDS *				30	60	75	1/Week	24 HC	
TEMPERATURE			See Other Requirement No. 6			110°F	1/Week	i-s	
pH (STD UNIT)			6.0			9.0	1/Week	Grab	
TOTAL RESIDUAL OXIDANTS			See Other Requirements No. 9, 10, 11		0.2	0.5	1/Week	Grab	
SPECTRUS CT 1300 **				0.2	0.4	0.5	1/Week	Grab	
SPECTRUS NX 1104 **				0.2	0.4	0.5	1/Week	Grab	

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

* These are net limits. See Other Requirement No. 7 to calculate net concentration. A time-weighted composite sample shall be collected during the use of Spectrus DT 1400 in cooling towers.

** See Other Requirement No. 8.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

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

Permit No. PA0051926

1. For Outfall 101 , Latitude 40°13'13" , Longitude 75°35'22" , River Mile Index 48.01 , Stream Code 00833

- 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 2o).

Discharge Parameter	Effluent Limitations						Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		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 ⁽²⁾			
FLOW (MGD)							1/Week	Measured	
CBOD ₅				25		50	1/Week	24 HC	
SUSPENDED SOLIDS				30		60	1/Week	24 HC	
FECAL COLIFORM	See Other Requirement No. 4			200			1/Week	Grab	
pH (STD UNIT)			6.0			9.0	1/Week	Grab	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Monitoring Point 101.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 201 , Latitude 40°13'13" , Longitude 75°35'22" , River Mile Index 48.01 , Stream Code 00833

which receives waste water from holding pond contains non-hazardous/industrial wastes generated as part of routine plant operations, testing, and maintenance.

- 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 2o).

Discharge Parameter	Effluent Limitations						Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		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 ⁽²⁾			
FLOW (GPD)							1/Week	Measured	
TOTAL SUSPENDED SOLIDS				30	100		2/Month	Grab	
OIL AND GREASE				15	20	30	2/Month	Grab	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Monitoring Point 201.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 301 , Latitude 40°13'13" , Longitude 75°35'22" , River Mile Index 48.01 , Stream Code 00833

which receives waste water from radwaste treatment plant and laundrydrain collection system.

- 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 2o).

Discharge Parameter	Effluent Limitations						Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		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 ⁽²⁾			
FLOW (GPD)							1/Week	Measured	
TOTAL SUSPENDED SOLIDS				30	100		*	Grab	
OIL AND GREASE				15	20	30	*	Grab	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Monitoring Point 301.

* During discharge of laundrydrain collection system.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 002 , Latitude 40°13'17" , Longitude 75°35'15" , River Mile Index 0.23 , Stream Code 01640
 which receives stormwater from area around sewage treatment plant and service roads.
- For Outfall 004 , Latitude 40°13'18" , Longitude 75°35'07" , River Mile Index 0.30 , Stream Code 01640
 which receives stormwater from fuel storage area.
- For Outfall 022 , Latitude 40°13'12" , Longitude 75°35'16" , River Mile Index 0.19 , Stream Code 01640
 which receives stormwater from area around wastewater treatment plant and service roads.
- 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 2o).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)				
	Average Annual	Average Semi Annual	Maximum Daily	Minimum Measurement Frequency	Required Sample Type
CBOD ₅	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): any one outfall.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 003 , Latitude 40°13'17" , Longitude 75°35'14" , River Mile Index 0.265 , Stream Code 01640

which receives waste water from floor drains, chiller wastewater from condenser boxes associated with turbine unit 1 and stormwater from area around the unit.

- 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 2o).

Discharge Parameter	Effluent Limitations						Monitoring Requirements		
	MassUnits (lbs/day) ⁽¹⁾		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 ⁽²⁾			
FLOW (MGD)							*	Estimated	
TEMPERATURE						110°F	*	i-s	
TOTAL SUSPENDED SOLIDS				Monitor	Monitor	Monitor	*	Grab	
TOTAL RESIDUAL OXIDANTS					0.2	0.5	*	Grab	
SPECTRUS CT 1300				0.2	0.4	0.5	*	Grab	
SPECTRUS NX 1104				0.2	0.4	0.5	*	Grab	
pH (STD UNIT)			6.0			9.0	*	Grab	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 003

* Sample during discharge through drain valve associated with the circulating water pumps.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 005, Latitude 40°13'19", Longitude 75°35'05", River Mile Index 0.36, Stream Code 01640

which receives waste water from floor drains, chiller wastewater from condenser boxes associated with turbine unit 2 and stormwater from the area around turbine 2.

- 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 2o).

Discharge Parameter	Effluent Limitations						Monitoring Requirements		
	MassUnits (lbs/day) ⁽¹⁾		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 ⁽²⁾			
FLOW (MGD)							*	Estimated	
TEMPERATURE						110°F	*	i-s	
TOTAL SUSPENDED SOLIDS				Monitor	Monitor	Monitor	*	Grab	
TOTAL RESIDUAL OXIDANTS					0.2	0.5	*	Grab	
SPECTRUS CT 1300				0.2	0.4	0.5	*	Grab	
SPECTRUS NX 1104				0.2	0.4	0.5	*	Grab	
pH (STD UNIT)			6.0			9.0	*	Grab	

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

* Sample during discharge through drain valve associated with the circulating water pumps.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 006 , Latitude 40°13'26" , Longitude 75°35'22" , River Mile Index 48.114 , Stream Code 00833
 which receives stormwater from maintenance area of metal shop and hardware.
- For Outfall 007 , Latitude 40°13'27" , Longitude 75°35'22" , River Mile Index 48.26 , Stream Code 00833
 which receives stormwater from area around health physics building, hardware shop and offices.
- For Outfall 008 , Latitude 40°13'28" , Longitude 75°35'23" , River Mile Index 48.322 , Stream Code 00833
 which receives stormwater from area around health physics building and electrical substation.
- For Outfall 009 , Latitude 40°13'29" , Longitude 75°35'25" , River Mile Index 48.341 , Stream Code 00833
 which receives stormwater from area around control building, instrumentation shop, and storage.

- 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 2o).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)				
	Average Annual	Average Semi Annual	Maximum Daily	Minimum Measurement Frequency	Required Sample Type
CBOD ₅	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): any one outfall.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 010 , Latitude 40°13'15" , Longitude 75°35'22" , River Mile Index 48.114 , Stream Code 00833
which receives stormwater from Schuylkill River intake water through makeup header drain.
- 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 2o).
- c. This discharge shall consist solely of Schuylkill River water from the makeup water header drain.

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

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 011 , Latitude 40°13'15" , Longitude 75°35'23" , River Mile Index 48.17 , Stream Code 00833
which receives stormwater from intake screen backwash, Schuylkill River pump house pipe leakage, pump cooling water and air compressor's condensate.

- 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 2o).
- c. Debris collected on the intake trash racks shall not be returned to the Schuylkill River.

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

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

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

Permit No. PA0051926

1. For Outfall 012, Latitude 40°13'15", Longitude 75°35'23", River Mile Index 48.06, Stream Code 00833

which receives waste water from the dredging operation of the Schuylkill River Pump House and stormwater from service roads.

- 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 2r).

Discharge Parameter	Effluent Limitations						Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/l)				Minimum Measurement Frequency	Required Sample Type	24 Hour Report Under A3.C(4)
	Average Monthly	Maximum Daily	Inst. Minimum	Average Annual	Maximum Daily	Inst. Maximum ⁽²⁾			
FLOW (MGD)							*	Estimated	
OIL AND GREASE				Monitor/Report	Monitor/Report		*	Grab	
TOTAL SUSPENDED SOLIDS				Monitor/Report	Monitor/Report		*	Composite	
IRON DISSOLVED				Monitor/Report	Monitor/Report		*	Composite	
pH				Monitor/Report	Monitor/Report		*	Grab	
IRON, TOTAL				Monitor/Report	Monitor/Report		*	Composite	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 012

* Shall be monitored daily during dredging operation. A composite sample means a composite sample collected during dredging operation.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 013 , Latitude 40°13'29" , Longitude 75°35'05" , River Mile Index 034 , Stream Code 01640
which receives stormwater from service roads and parking lots.
 - For Outfall 014 , Latitude 40°13'26" , Longitude 75°34'59" , River Mile Index 0.378 , Stream Code 01640
which receives stormwater from service roads and parking lots.
 - For Outfall 015 , Latitude 40°13'27" , Longitude 75°34'59" , River Mile Index 0.40 , Stream Code 01640
which receives stormwater from service roads and parking lots.
 - For Outfall 016 , Latitude 40°13'28" , Longitude 75°34'51" , River Mile Index 0.435 , Stream Code 01640
which receives stormwater from service roads and parking lots.
 - For Outfall 017 , Latitude 40°13'29" , Longitude 75°33'52" , River Mile Index 0.473 , Stream Code 01640
which receives stormwater from cooling tower drift loss, cooling tower screen wash and acid/chlorination storage area.
 - For Outfall 018 , Latitude 40°13'30" , Longitude 75°34'53" , River Mile Index 0.51 , Stream Code 01640
which receives stormwater from yard drains.
 - For Outfall 019 , Latitude 40°13'34" , Longitude 75°34'46" , River Mile Index 0.57 , Stream Code 01640
which receives stormwater from service roads and parking lots.
 - For Outfall 030 , Latitude 40°20'00" , Longitude 75°37'34" , River Mile Index 0.23 , Stream Code 01641
which receives stormwater from yard drain
- 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 discharge shall consist solely of stormwater.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): No monitoring.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 021, Latitude 40°13'37", Longitude 75°35'25", River Mile Index 48.38, Stream Code 00833 which receives stormwater from cooling tower drift loss, cooling tower screen wash and acid/chlorination storage area.

- 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 2o).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)				
	Average Annual	Average Semi Annual	Maximum Daily	Minimum Measurement Frequency	Required Sample Type
CBOD ₅	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): Outfall 021.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

Permit No. PA0051926

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

1. For Outfall 020, Latitude 40°13'29", Longitude 75°34'50", River Mile Index 0.436, Stream Code 01640

which receives stormwater from Perkiomen Creek Makeup Storage Tank

- 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 2o).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)				
	Instantaneous Minimum	Average Monthly	Instantaneous Maximum	Minimum Measurement Frequency	Required Sample Type
FLOW		Monitor/Report		Monthly	Calculated
TEMPERATURE			110°F	*	i-s
pH (STD UNIT)	6.0		9.0	Monthly	Grab
TOTAL SUSPENDED SOLIDS		Monitor/Report		*	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 020

* Discharge of cooling tower blowdown through Outfall 020 shall be monitored once a week.

DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

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

Permit No. PA0051926

1. For Outfall 023, Latitude 40°13'11", Longitude 75°35'17", River Mile Index 0.15, Stream Code 01640

which receives waste water from cooling tower emergency overflow vent..

- 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 2o).

Discharge Parameter	Effluent Limitations						Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		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 ⁽²⁾			
FLOW (MGD)							*	Measured	
TOTAL SUSPENDED SOLIDS				Monitor/Report	Monitor/Report	Monitor/Report	*	Grab	
TEMPERATURE						110°F	*	i-s	
pH (STD UNIT)			6.0			9.0	*	Grab	
TOTAL RESIDUAL OXIDANTS					0.2	0.5	*	Grab	
SPECTRUS CT 1300				0.2	0.4	0.5	*	Grab	
SPECTRUS NX 1104				0.2	0.4	0.5	*	Grab	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 023

* Sample during discharge.

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 Page 2 thru 2n)

- (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 Outfall 001 were determined using an effluent discharge of 8.22 million gallons per day.
- (2) A 24-hour composite sample at Outfall 001 means a time-weighted composite sample.

Re 30(SMC00)70-4D

2. DEFINITIONS

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
- b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- c. "Daily discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day.
- d. "Average" refers to the use of an arithmetic mean, unless otherwise specified in this permit.
- e. "Geometric Average (mean)" means the average of a set of n sample results given by the nth root of their product.
- f. "Average monthly" discharge limitation means the highest allowable average of "daily values" over a calendar month, calculated as the sum of all "daily values" measured during a calendar month divided by the number of "daily values" measured during that month.
- g. "Average weekly" discharge limitation means the highest allowable average of "daily values" over a calendar week, calculated as the sum of all "daily values" measured during a calendar week divided by the number of "daily values" measured during that week.
- h. "Maximum daily" discharge limitation means the highest allowable "daily discharge."
- i. "Maximum any time" (or instantaneous maximum) means the level not to be exceeded, at any time, in any grab sample.
- j. "Composite Sample" (for all except GC/MS volatile organic analysis) means a combination of at least eight individual samples of at least 100 milliliters, each obtained at periodic intervals during the operating hours of a facility over a 24-hour period. The composite must be flow proportional, either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval (for constant volume samples) is proportional to the flow rates, over the time period used to produce the composite.

 "Composite Sample for GC/MS volatile organic analysis" consists of at least four (rather than eight) aliquots or grab samples collected during actual hours of discharge over a 24-hour period and need not be flow proportioned. The four samples are composited in the laboratory immediately before analysis, and only one analysis performed.

 The maximum time period between individual samples used for any "composite sample" shall not exceed two hours, except that for wastes of a uniform nature the samples may be collected on a frequency of at least twice per working shift and shall be equally spaced over a 24-hour period (or over the operating day if flows are of a shorter duration).
- k. "Grab Sample" means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not to exceed 15 minutes.

- l. "I-S" means immersion stabilization - in which a calibrated device is immersed in the wastewater until the reading is stabilized.
- m. The "Daily Average" temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.
- n. "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.
- o. "At outfall XXX" means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line XXX, or where otherwise specified.
- p. "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.
- q. "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.
- Such water may on occasion, as a result of corrosion, cooling system leakage or similar cooling system failures contain small amounts of process chemicals: provided that all reasonable measures have been taken to prevent, reduce, eliminate, and control the maximum extent feasible such contamination: and provided further, that all reasonable measures have been taken that will mitigate the effects of such contamination once it has occurred.
- r. "Toxic Pollutant" - 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, will, on the basis of information available to the Department, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in such organisms or their offspring.
- s. "Hazardous substance" means any substance designated under 40 CFR Part 116, pursuant to Section 311 of the Clean Water Act.
- t. "Publicly Owned Treatment Works" or "POTW" means a facility as defined by Section 212 of the Clean Water Act, which is owned by a State or Municipality, as defined by Section 502(4) of the Clean Water Act, including any sewers that convey wastewater to such a treatment works, but not including pipes, sewers or other conveyances not connected to a facility providing treatment. The term also means the municipality as defined in Section 502(4) of the Clean Water Act, which has jurisdiction over the indirect discharges to and the discharges from such a treatment works.
- u. "Industrial User" means an establishment which discharges or introduces industrial wastes into a Publicly Owned Treatment Works (POTW).
- v. "Total Dissolved Solids" means the total dissolved (filterable) solids as determined by use of the method specified in 40 CFR Part 136.
- w. "Storm water 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 Part 122.26(b)(14).
- x. "Storm water" means storm water runoff, snow melt runoff and surface runoff and drainage.

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

3. SELF-MONITORING, REPORTING, AND RECORDKEEPING

a. Representative Sampling

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

(2) Records Retention

Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for three (3) years from the date of the sample measurement, report or application. The three-year period shall be extended as requested by the Department or the EPA Regional Administrator.

(3) Recording of Results

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

- (i) The exact place, date, and time of sampling or measurements;
- (ii) The person(s) who performed the sampling or measurements;
- (iii) The date(s) the analyses were performed;
- (iv) The person(s) who performed the analyses;
- (v) The analytical techniques or methods used; and the associated detection level; and
- (vi) The results of such analyses.

(4) Test Procedures

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

(5) Quality Assurance/Control

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

- (a) Permittee or its designated laboratory shall participate in the periodic scheduled quality assurance inspections conducted by the Department and EPA.

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

b. Reporting of Monitoring Results

- (1) The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit.
- (2) Unless instructed otherwise in Part C of this permit, monitoring results obtained each month shall be summarized for that month and reported on a Discharge Monitoring Report (DMR).
- (3) The completed DMR form shall be signed and certified either by the following applicable person (as defined in 40 CFR 122.22(a)) or by that person's duty authorized representative (as defined in 40 CFR 122.22(b)):
- for a corporation - by a responsible corporate officer;
 - for a Partnership or Sole Proprietorship - by a general partner or the proprietor, respectively; and
 - for a Municipality, State, Federal or other public agency - by a principle executive officer or ranking elected official.

If signed by other than the above, written notification of delegation of DMR signatory authority must be submitted to the Department.

- (4) If the permittee monitors any pollutant, using analytical methods described in A.3.a(4) above, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.

c. Reporting Requirements

- (1) Planned Changes - The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
- (a) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in § 122.29(b); or
 - (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 the permit, nor to notification requirements under § 122.42(a)(1); or
 - (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 Non-Compliance

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

(3) Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(4) Twenty-Four Hour Reporting

- (a) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance.
- (b) The following shall be included as information which must be reported within 24 hours under this paragraph:
- (i) Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - (ii) Any catastrophic event which causes the discharge to exceed effluent limitations in this permit.
 - (iii) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours.
- (c) The Department may waive the written report on a case-by-case basis for reports under paragraph C (4)(a) of this section if the oral report has been received within 24 hours.

(5) Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraphs C (3), (4) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph C (4) of this section.

Compliance with reporting requirements under A.3.c. above, shall not excuse a person from immediate notification of incidents causing or threatening pollution pursuant to 25 Pa. Code 101.2.

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

- (1) That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels:"
- (a) One hundred micrograms per liter;
 - (b) Two hundred micrograms per liter for acrolein and acrylonitrile;
 - (c) Five hundred micrograms per liter for 2, 4-dinitrophenol and 2-methyl -4, 6-dinitrophenol;
 - (d) One milligram per liter for antimony;

- (e) Five (5) times the maximum concentration value reported for that pollutant in the permit application;
 - (f) Any other notification level established by the Department.
- (2) That any activity has occurred, or will occur, which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
- (a) Five hundred micrograms per liter;
 - (b) One milligram per liter for antimony;
 - (c) Ten (10) times the maximum concentration value reported for that pollutant in the permit application;
 - (d) Any other notification level established by the Department.

PART B

1. MANAGEMENT REQUIREMENTS

a. Compliance Schedules

- (1) The permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in Part C of this permit.
- (2) The permittee shall submit reports of compliance or noncompliance with, or progress reports as applicable, 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, suspended or revoked in whole or in part during its term for causes including, not limited to, any of the causes specified in 25 Pa. Code, Chapter 92.
- (2) The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not stay any permit condition.
- (3) In the absence of a Departmental action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions.

c. Duty to Provide Information

- (1) The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- (2) The permittee shall furnish to the Department, upon request, copies of records required to be kept by this permit.
- (3) Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information to the Department.
- (4) Where the permittee is a POTW, the permittee shall provide adequate notice to the Department of the following:
 - (a) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were otherwise discharging those pollutants.
 - (b) Any substantial change in the volume or character of pollutants being introduced into the POTW by an Industrial User, which was discharging into the POTW at the time of issuance of this permit.

- (c) Adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW. The submission of the above information in the POTW's Annual Wasteload Management Report, required under the provisions of 25 Pa. Code Chapter 94, will normally be considered as providing adequate notice to the Department, unless a more stringent time period is required by law, regulation or permit condition in which case the more stringent submission date shall apply.
- (d) The identity of Industrial Users served by the POTW which are subject to pretreatment standards adopted under Section 307(b) of the Clean Water Act; the POTW shall also specify the total volume of discharge and estimated concentration of each pollutant discharged into the POTW by the Industrial Users.
- (e) The POTW shall require all Industrial Users to comply with the reporting requirements of Sections 204(b), 307 and 308 of the Clean Water Act and any regulations adopted thereunder, and the Clean Streams Law and any regulations adopted thereunder.

d. Facilities Operation

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

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

e. Adverse Impact

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

f. Bypassing

- (1) Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be violated, but only if the bypass is essential for maintenance to assure efficient operation. This type of bypassing is not subject to the reporting and notification requirements of Part A.3.c.

- (2) Other Bypassing - In all other situations, bypassing is prohibited unless all of the following conditions are met:
- (a) A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage;"
 - (b) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed (in the exercise of reasonable engineering judgement) to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance;
 - (c) The permittee submitted the necessary reports required under Part A.3.c.
- (3) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three Conditions (a through c) listed above.

2. 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 the Department, or any condition or limitation of any permit issued pursuant to the Clean Streams Law is subject to criminal and/or civil penalties, as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

b. Falsifying Information

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 non-compliance);

shall, upon conviction, be punished by a fine and/or imprisonment, as set forth in 18 P.S. § 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. Enforcement Proceedings

- (1) 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.

3. OTHER RESPONSIBILITIES

a. Right of Entry

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

- (1) To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- (2) To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (3) To inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit;
- (4) To sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

b. Transfer of Permits

- (1) *Transfers by modification.* Except as provided in paragraph (2) of this section, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under CWA.
- (2) *Automatic transfers.* As an alternative to transfers under paragraph (1) of this section, any NPDES Permit may be automatically transferred to a new permittee if:
 - (a) The current permittee notifies the Department at least 30 days in advance of the proposed transfer date in paragraph (2)(b) of this section;
 - (b) The notice includes the appropriate Department transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; and
 - (c) The Department does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. A modification under this subparagraph may also be a minor modification. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph (2)(b) of this section.

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

c. Property Rights

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

d. Other Laws

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

PART C

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 3.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

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

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

3. Water borne 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 the environmental technical specifications for the facility.

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

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

The above reports are to be forwarded to the following agency:

Pennsylvania Department of Environmental Protection
Bureau of Radiation Protection
13th Floor, Rachel Carson State Office Building
P.O. Box 8469
Harrisburg, PA 17105-8469

PART C

OTHER REQUIREMENTS (continued)

4. Effective disinfection to control disease producing organisms shall be the production of an effluent which will contain a concentration not greater than 200/100 ml of fecal coliform organisms as a geometric average value, nor greater than 1000/100 ml of these organisms in more than 10 percent of the samples tested.
5. This permit also authorizes the discharge of treated sewage until such time as facilities for conveyance and treatment at a more suitable location are installed and are capable of receiving and treating the permittee's sewage. Such facilities must be in accordance with either the applicable municipal official plan adopted pursuant to Section 5 of the Pennsylvania Sewage Facilities Act, the Act of January 24, 1956, P.L. 1535, as amended, or a comprehensive Water Quality Management Plan as set forth in Section 91.31 of the Rules and Regulations of the Department. When such municipal sewerage facilities become available, the permittee shall provide for the conveyance of the sewage to these sewerage facilities, abandon the use of the sewage treatment plant thereby terminating the discharge authorized by this permit, and notify the Department accordingly. This permit shall then, upon notice from the Department, terminate and become null and void, and shall be relinquished to the Department.
6. The following requirements apply with respect to the thermal impact of the discharge from Outfall 001 upon the Schuylkill River.

No rise when ambient temperature is 87°F or above; not more than a 5°F rise above ambient temperature until stream temperature reaches 87°F; not to be changed by more than 2°F during any one-hour period.
7. The permittee must calculate net suspended solids concentration in accordance with the worksheet attached to the permit.
8. Outfall 001 shall be sampled and analyzed for Spectrus CT 1300 and Spectrus NX No. 1104, on a weekly basis, with daily record keeping of the usage rates during use of the product. Methyl Orange method shall be used for Spectrus CT 1300 and Spectrus NX 1104 with a detection level of 0.2 mg/l.

PART C

OTHER REQUIREMENTS (continued)

9. The term total residual oxidants for water with bromides generated through the use of a chemical additive 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."
10. The term Maximum Daily Concentration as it relates to total residual oxidants (TRO) discharge means the average analysis made over a single period of TRO release which does not exceed two hours.
11. For Outfall 001, total residual oxidants 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 oxidants 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.
12. The additives and usage rate currently approved are the following:

<u>Name</u>	<u>Usage Rate lbs/day</u>	
	<u>Average Monthly</u>	<u>Maximum Daily</u>
Betz Dearborn Flogard MS 6210	Control through zinc limit	
Betz Dearborn Depositrol BL 5307	800	3850
Betz Dearborn Depositrol BL 5400	160	320
Betz Dearborn Depositrol PY 5204	1,450	2,850
Betz Dearborn Depositrol PY 5206	2,542	2,542
Betz Dearborn Spectus BD 1500	932	5,000
Betz Dearborn Spectus CT 1300	average monthly limit 0.2 mg/l at 001	
Betz Dearborn Spectus DT 1400	4,760	9,520
Betz Dearborn Spectus NX 1100	1	2
Betz Dearborn Spectus NX 1104	Not Detectable of 0.2 mg/l at 001	
Betz Dearborn Spectus OX 1201	1,900	1,990
Betz Dearborn Continuum AEC 3120	8	16
Betz Dearborn Inhibitor AZ 8104	380	380
Betz Dearborn Ferroquest LP 7200	600	600
Betz Dearborn Ferroquest LP7202	300	300
Betz Dearborn Foamtrol AF 1441	450	900
Sodium Hypochlorite	control through TRO	
Sulfuric Acid	control through pH	

PART C

OTHER REQUIREMENTS (continued)

13. 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.

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.

PART C

OTHER REQUIREMENTS (continued)

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 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.

14. There shall be no discharge of polychlorinated biphenyl (PCB) compounds such as those commonly used for transformer fluid at any time.
15. Collected screenings, slurries, sludges, and other solids shall be handled and disposed of in compliance with 25 Pa. Code, Chapters 287, 288, 289, 291, 297, and 299 (relating to permits and requirements for landfilling, land application, incineration, and storage of residual waste), Chapters 262, 263, and 264 (related to permits and requirements for landfilling and storage of hazardous sludge) and applicable Federal Regulations, the Federal Clean Water Act, RCRA and their amendments.
16. 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.

PART C

OTHER REQUIREMENTS (continued)17. 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 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 Section 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 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.

PART C

OTHER REQUIREMENTS (continued)

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

PART C

OTHER REQUIREMENTS (continued)

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 may conduct annual inspections of the facility in lieu of annual monitoring for the parameters listed on pages 2d and 2g of this permit.
- b. Where an annual inspection is conducted in lieu of annual monitoring, 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.

18. 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.

**WORKSHEET FOR THE DETERMINATION
OF
NET SUSPENDED SOLIDS CONCENTRATION AT OUTFALL 001**

1. Prepare a composite representative sample by collecting grab samples every two hours from the Cooling Tower No. 1 during the period when the chemical additive Sectrus DT 1400 is in use. Analyze this composite representative sample for TSS.
(Call it TSS1)
2. Repeat step 1 for the Cooling Tower No. 2 and analyze for total suspended solids.
(Call it TSS2)
3. Calculate the average blow down rate for Cooling Tower No. 1 during the sampling time period.
(Call it Q1)
4. Repeat step 3 for the Cooling Tower No. 2 to determine the average blow down rate for the Cooling Tower No. 2 during the sampling time period.
(Call it Q2)
5. Use the following equation to calculate the total suspended solid level in the Cooling Towers:

$$[TSS1 \times Q1 + TSS2 \times Q2] / [Q1 + Q2] = C1$$

6. Prepare a composite representative sample by collecting grab samples at Outfall 001. Analyze for total suspended solid.
(Call it TSS)
7. Calculate Net TSS using the following equation:

$$\text{Net TSS} = \text{TSS} - C1$$

NOTE:

For computing averages for DMR reporting and for determining permit compliance, all "less than zero" results must be counted as zero values.