EPP 3.2

PECO Energy Company Nuclear Group Headquarters 965 Chesterbrook Boulevard Wavne, PA 19087-5691

January 4, 1995

Docket Nos. 50-352 50-353

License Nos. NPF-39 NPF-85

NPDES Permit No. PA0051926

U.S. Nuclear Regulatory Commission Attn: Document Contro Desk Washington, DC 20555

PECO ENERGY

Subject: Limerick Generating Station, Units 1 and 2 Renewal of National Pollutant Discharge Elimination System Permit

Gentlemen:

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 a change or renewal to the National Pollutant Discharge Elimination System (NPDES) permit.

By letter dated December 12, 1994, the Pennsylvania Department of Environmental Resources (PA DER) renewed NPDES Permit No. PA0051926 authorizing PECO Energy Company to discharge effluents from its LGS facility to the Schuykill River and Possum Hollow Run. The renewed NPDES permit became effective on January 1, 1995, and was issued for a period of five (5) years. A copy of the PA DER letter and renewed NPDES permit is enclosed.

In addition, this letter also provides notification, as required by Section 3.2 of the EPP, that a change previously requested under the provisions of the superseded permit has been approved and incorporated in the renewed NPDES permit for LGS, Units 1 and 2. Specifically, by letter dated February 15, 1994, we requested that the NPDES permit be revised to permit the use of a chemical additive (i.e, R.J.D. Products, Inc. Formula #65 Foaming Agent) to facilitate condenser tube leakage testing at LGS, Units 1 and 2. The NRC was notified of this request to use this chemical additive at the same time the permitting agency was notified as required by Section 3.2 of the EPP.

9501120130 950 ADO 05000352 PDR

1623

January 4, 1995 Page 2

If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

a. Hunger, Jr. b

G. A. Hunger, Jr. Director - Licensing

Enclosure

CC:

- T. T. Martin, Administrator, Region I, USNRC (w/ enclosure)
- N. S. Perry, USNRC Senior Resident Inspector, LGS, (w/ enclosure)



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES

Lee Park, Suite 6010 EC 16 1994 555 North Lane Conshohocken, PA 19428 "" Minimum GEC 1 2 1994

Southeast Regional Office

(610) 832-6130 FAX: (610) 832-6259

George M. Morley Director, Environmental Affairs PECO Energy Company 2301 Market Street P.O. Box 8699 Philadelphia, PA 19101-8699

> Re: Industrial Waste NPDES Permit PA 0051926 Limerick Generating Station Limerick Township Montgomery County

Dear Mr. Morley:

Referenced permit is enclosed.

It will be necessary for you to submit a completed Discharge Monitoring Report (DMR) on a monthly basis to the appropriate agencies (see p. 5 of the NPDES permit).

A master copy of the DMR form is enclosed which should be reproduced for your use in this regard.

Please study the permit carefully and direct any questions to the Permits Section of this office.

Please take the time to complete the enclosed questionnaire and return it in the pre-addressed and stamped envelope. Your response will be taken into

DEC 1 2 1994

account as we consider ways of improving our service to the public and regulated community. Thank you for your cooperation.

- 2 -

Sincerely,

vegh A. Ferla

Joseph A. Feola Water Management Program Manager

Enclosures: Permit

Master Discharge Monitoring Report General Permit PAG-3 Supplemental Discharge Monitoring Data Reporting Form - Chemical Additives Information On Chemical Additives Form Worksheet for the Determination of Net Total Suspended Solids.

cc: Environmental Protection Agency (Transmittal letter only) DRBC Limerick Township (Transmittal letter only) Permits & Compliance Operations Section Ms. Wade Re 30 (RN)1 COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES WATER MANAGEMENT PROGRAM

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

INDUSTRIAL NPDES PERMIT NO. PA 0051926

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

is authorized to discharge from a facility located at

Evergreen and Sanatoga Road

Limerick Township Montgomery County

Municipality

County

to receiving waters named Schuylkill River and Possum Hollow Run

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, 12/31/99

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.
- 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.

 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 12-12-94
DATE	PERMIT	AMENDMENT ISSUED
DATE	EFFECTI	VE_01-01-95

ISSUED BY Joseph A. Fer

TITLE: Water Management Program Manager

Page	_2	of	14
PA	005	1926	

 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, FOR DISCHARGE 001; LOCATED AT LATITUDE 40°13'13", LONGITUDE 75°35'22", WHICH RECEIVES WASTE FROM: cooling towers blowdow, spray pond overflow, treated radwaste and laundry drain collection system, holding pond, filter backwash and treated sewage.

A. The permittee is authorized to discharge during the period from issuance through expiration.

B. Based on 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:

		DISCHA	RGE LIMITAT	MONITORING REQUIREMENTS				
DISCHARGE	MASS UNITS (lbs/day)		CONCENTRATIONS		(mg/1)			
PARAMETERS	AVERAGE MONTHLY	MAXIMUM DAILY	AVERAGE MONTHLY	MAXIMUM DATLY	INSTAN- TANEOUS MAXIMUM		SAMPLE TYPE	24 HOUR REPORT UNDER A.3.C
FLOW (MGD)						1/Week	Measured	
TOTAL SUSPENDED SOLIDS ***			30	60	75	1/Week	24 Hour Comp	
TEMPERATURE		See Oth	er Requirem		110°F	1/Week	i-s	
TOTAL RESIDUAL OXIDANIS **				0.2	0.5	1/Week	Grab	
ZINC, TOTAL			0.7	1.0	1.75	1/Week	24 Hour Comp	
COPPER, TOTAL ****			0.14	0.28	0.35	1/Week	24 Hour Comp	
PHOSPHORUS AS P			Monitor/ Report	Monitor/ Report		1/Week	24 Hour Comp	

There shall be no discharge of floating solids or visible foam in other than trace amounts. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 001.

* Unless otherwise indicated, these are gross discharge limitations.

** See Other Requirements No. 8, 9, and 10.

*** These are net effluent limitations for total suspended solids. The limits will be effective July 1, 1995. The parameter shall be sampled and results must be reported from issuance to June 30, 1995. See worksheet to calculate net limitations.

**** These limits are effective October 1, 1995. Until such time monitor and report.

- EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, FOR DISCHARGE 001; LOCATED AT LATITUDE 40°13'13", LONGITUDE 75°35'22", WHICH RECEIVES WASTE FROM: cooling towers blowdow, spray pond overflow, treated radwaste and laundry drain collection system, holding pond, filter backwash and treated sewage.
 - A. The permittee is authorized to discharge during the period from issuance through expiration.
 - B. Based on 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:

		DISCHA	RGE LIMITAT	MONITORING REQUIREMENTS				
DISCHARGE	MASS UNITS(lbs/day)		CONCENTRATIONS (mg/1)				100000000000000000000000000000000000000	
PARAMETERS	AVERAGE MONTHLY	MAXIMUM DAILY	AVERAGE MONIHLY	MAXIMUM DAILY	INSTAN- TANEOUS MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE	24 HOUR REPORT UNDER A.3.C
BETZ 3625 **			0.2	0.4	0.5	1/Week	Grab	
CLAM TROL CT-1 **			0.2	0.4	0.5	1/Week	Grab	
HYDROTHOL 191 ***			0.07	0.14	0.175	1/Month	Grab	
рН	Within Limits of 6.0 to 9.0 Standard Units at all times					1	Grab	

There shall be no discharge of floating solids or visible foam in other than trace amounts.

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

- * Unless otherwise indicated, these are gross discharge limitations.
- ** See Other Requirement No. 14.
- *** See Other Requirement No. 13.

1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, FOR MONITORING POINT 101; WHICH RECEIVES WASTE FROM: Sewage Treatment Plant

- A. The permittee is authorized to discharge during the period from issuance through expiration.
- B. Based on 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:

		DISCHA	RGE LIMITAT	MONITORING REQUIREMENTS				
DISCHARGE	MASS UNITS(lbs/day)		CONCENTRATIONS		(mq/1)			
PARAMETERS	AVERAGE MONTHLY	MAXIMUM DAILY	AVERAGE MONTHLY	MAXIMUM DAILY	INSTAN- TANEOUS MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE	24 HOUR REPORT UNDER A.3.C
FLOW						1/Week	Measured	
CBOD5			25		50	1/Week	8 Hour Camp	
TOTAL SUSPENDED SOLIDS			30		60	1/Week	8 Hour Camp	
FECAL COLIFORM		See Other	Requiremen	it No. 1		1/Week	Grab	
Ηg	Within Lim	uts of 6.0	to 9.0 Stan	dard Units	at all time	s 1/Week	Grab	

There shall be no discharge of floating solids or visible foam in other than trace amounts. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Effluent of Sewage Treatment Plant.

*Unless otherwise indicated, these are gross discharge limitations.

Page	2c	of	14
PA	0051	926	

 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, FOR MONITORING POINT 201; WHICH RECEIVES WASTE FROM: Holding pond containing 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 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:

		DISCHA	RGE LIMITAT	MONITORING REQUIREMENTS				
DISCHARGE	MASS UNITS (lbs/day)		CONCENTRATIONS (mg/1)					
PARAMETERS	AVERAGE MONTHLY	MAXIMUM DAILY	AVERAGE MONTHLY	MAXIMUM DAILY	INSTAN- TANEOUS MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TVPE	24 HOUR REPORT UNDER A.3.C
FLOW						1/Week	Measured	
TOTAL SUSPENDED SOLIDS			30	100		1/Week	Grab	
OIL & GREASE			15	20	30	1/Week	Grab	

There shall be no discharge of floating solids or visible foam in other than trace amounts. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Effluent from Holding Pond.

*Unless otherwise indicated, these are gross discharge limitations.

1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, FOR MONITORING POINT 301; WHICH RECEIVES WASTE 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 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:

		DISCHA	RGE LIMITAI	MONTTORING REQUIREMENTS				
DISCHARGE	MASS UNIT	S(lbs/day)	CONCENTRATIONS (mg/1)					
PARAMETERS	AVERAGE MONTHLY	MAXIMUM DAILY	AVERAGE MONTHLY	MAXIMUM DAILY	INSTAN- TANEOUS MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE	24 HOUR REPORT UNDER A.3.C
FLOW (GPD)						1/Week	Measured	
TOTAL SUSPENDED SOLIDS			30	100		**	Grab	
OIL & GREASE			15	20	30	**	Grab	

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Effluent containing treated Radwastewater and treated laundry drain wastewater.

*Unless otherwise indicated, these are gross discharge limitations.

Also see Other Requirement No. 12 for discharge of Radioactive materials.

** During the period of discharge of Laundrydrain wastewater through Monitoring Point 301.

Page <u>2e</u> of <u>14</u> PA 0051926

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR DISCHARGES Listed Below:

	045-11-					
	<u>Outfalls</u>	Latitude	Longitude	Which Receives Waste From:	Dischar	ges to:
	002	40°13'17"	75°35′15"	Area around STP and Service roads	Possum	Hollow Run
*	003	40°13′17"	75°35′14"	Chillers, floor drains, area around turbine units 1 and 2 and reactors 1 and 2	Possum	Hollow Run
	004	40°13'18"	75°35′07"	Fuel Storage Area	Possum	Hollow Run
*	005	40°13′19"	75°35′05"	Turbine 2 area, circulation water pump structure and parking lots	Possum	Hollow Run
	012	40°13′15"	75°35′23''	Schuylkill River pumphouse, service roads	Possum	Hollow Run
	022	40°13′12"	75°35′16"	Area around STP and service roads	Possum	Hollow Run
*	023	40°13′11"	75°35′17"	Cooling Tower Emergency Overflow Vent	Possum I	Hollow Run

- A. The permittee is authorized to discharge during the period from issuance through expiration.
 Based on 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:
 - 1. This discharge shall consist solely of storm water runoff.
 - 2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
 - 3. This discharge is subject to the terms and conditions of the General Permit for Discharges of Storm Water from Industrial Activities, PAG-3, as issued on November 7, 1992 which is attached and made part of this permit. Monitoring Requirements listed under Appendix J are applicable.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s) At any one Outfall of the above listed Outfalls. In addition during discharge of cooling tower blowdown through Outfalls 003, 005 and/or 023 a grab sample must be collected at the effected Outfall(s) and be analyzed for those pollutants listed on page 2 and 2a using the sample frequency and type as indicated on the DMR's of such Outfall(s). the results must be submitted to the Department monthly. (RN)10

Page ______ of _____

PA 0051926

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR DISCHARGES Listed Below:

<u>Outfalls</u>	Latitude	Longitude	Which Receives Waste From:	Discharges to:
006	40°13′26"	75°35′22"	Maintenance area, metal, shop, hardware	Schuylkill River
007	40°13′27"	75°35′22"	Health Physics Building, Offices, Hardware	Schuylkill River
008	40°13'28"	75°35′23"	Health Physics Building, Electrical Substation	Schuylkill River
009	40°13′29"	75°35′25"	Control Building, Instrumentation shop, Storage	Schuylkill River

A. The permittee is authorized to discharge during the period from issuance through expiration.

B. Based on 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:

- 1. This discharge shall consist solely of storm water runoff.
- 2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
- 3. This discharge is subject to the terms and conditions of the General Permit for Discharges of Storm Water from Industrial Activities, PAG-3, as issued on November 7, 1992 which is attached and made part of this permit. Monitoring Requirements listed under Appendix J are applicable.

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

- 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, FOR DISCHARGE 010; LOCATED AT LATITUDE 40°13'15", LONGITUDE 75°35'22", WHICH RECEIVES WASTE FROM: Schuylkill River intake water from makeup header drain.
 - A. The permittee is authorized to discharge during the period from issuance through expiration.
 - B. Based on-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:

There shall be no discharge of floating solids or visible foam in other than trace amounts. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Not monitored

This discharge shall consist solely of Schuylkill River water from the makeup water header drain.

 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, FOR DISCHARGE 011; LOCATED AT LATITUDE 40°13'15", LONGITUDE 75°35'23", WHICH RECEIVES WASTE FROM: Intake screen backwash, Schuylkill River Pumphouse 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 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:

There shall be no discharge of floating solids or visible foam in other than trace amounts. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Not Monitored

Debris collected on the intake trash racks shall not be returned to the Schuylkill River.

Page ______ of _____ PA 0051926

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR DISCHARGES Listed Below:

<u>Outfalls</u>	Latitude	Longitude	Which Receives Waste From:	Dischar	ges to:
013	40°13′19"	75°35′05"	Service roads and Parking lots	Possum	Hollow Run
014	40°13′26"	75°34′59"	Service roads and Parking lots	Possum	Hollow Run
015	40°13′27"	75°34′59"	Service roads and Parking lots	Possum	Hollow Run
016	40°13′28"	75°34′51"	Service roads and Parking lots	Possum	Hollow Run
017	40°13′29"	75°34′52"	Service roads and Parking lots	Possum	Hollow Run
018	40°13′30"	75°34′53"	Service roads and Parking lots	Possum	Hollow Run
019	40°13′34"	75°34′46"	Service roads and Parking lots	Possum	Hollow Run

- A. The permittee is authorized to discharge during the period from issuance through expiration.
 B. Based on 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:
 - 1. This discharge shall consist solely of storm water runoff.
 - 2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): None

- 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, FOR DISCHARGE 020; LOCATED AT LATITUDE 40°13'29", LONGITUDE 75°34'50", WHICH RECEIVES WASTE FROM: Perkiomen Creek Makeup Storage Tank
 - A. The permittee is authorized to discharge during the period from issuance through expiration.
 - B. Based on 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:

		DISCHA	RGE LIMITAT	MONITORING REQUIREMENTS				
DISCHARGE	MASS UNITS (lbs/day)		CONCENTRATIONS (mg/1)					
PARAMETERS	AVERAGE MONTHLY	MAXIMUM DAILY	AVERAGE MONTHLY	MAXIMUM DAILY	INSTAN- TANEOUS MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE	24 HOUR REPORT UNDER A.3.C
FLOW						Monthly	Calculated	
TOTAL SUSPENDED SOLIDS			Monitor/ Report		Monitor/ Report	**	Grab	
TEMPERATURE					110°F	**	i-s	
pН		Within Lim at all ti		to 9.0 Star	dard Units	Monthly	Grab	

There shall be no discharge of floating solids or visible foam in other than trace amounts. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 020

- * Unless otherwise indicated, these are gross discharge limitations.
- ** Discharge of cooling tower blowdown through Outfall 020 shall be monitored at a frequency of once a week.

Page <u>2k</u> of <u>14</u> PA <u>0051926</u>

 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, FOR DISCHARGE 021; LOCATED AT LATITUDE 40°13'37", LONGITUDE 75°35'25", WHICH RECEIVES WASTE FROM: Cooling towers drift loss, cooling towers' screens wash, and stormwater from acid/chlorination storage area

- A. The permittee is authorized to discharge during the period from issuance through expiration.
- B. Based on 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:

		DISCHA	RGE LIMITAT	MONITORING REQUIREMENTS				
DISCHARGE	MASS UNIT	rS(lbs/day)	CONCENTRATIONS (mg/1)					1.1
PARAMETERS	AVERAGE MAXIMUM AVERAGE MAXIMUM T		INSTAN- TANEOUS MAXIMUM	** MEASUREMENT FREQUENCY	SAMPLE TYPE	24 HOUR REPORT UNDER A.3.C		
FLOW						Monthly	Estimated	
TOTAL SUSPENDED SOLIDS			Monitor/ Report		Monitor/ Report	Monthly	Grab	
pH		Within Lim	its of 6.0 mes	to 9.0 Star	ndard Units	Monthly	Grab	
TOTAL KJELDAHL NITROGEN			Monitor/ Report		Monitor/ Report	Monthly	Grab	
TOTAL PHOSPHOROUS			Monitor/ Report		Monitor/ Report	Monthly	Grab	
IRON, DISSOLVED			Monitor/ Report		Monitor/ Report	Monthly	Grab	
TOTAL RESIDUAL CHLORINE			Monitor/ Report		Monitor/ Report	Monthly	Grab	

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 021

*Unless otherwise indicated, these are gross discharge limitations.

Debris collected on the screens shall not be discharged to the Outfall 021.

** Measurement frequency must be increased to at least twice a month during an event of startup/leakage in the system causing high volume of discharge through Outfall 021.

2. Definitions

- a. The term "Bypass" means the intentional diversion of wastes from any portion of a treatment facility.
- b. The term "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. The "average monthly" mass discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the average monthly mass discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
- d. The "maximum daily" mass discharge means the total discharge by weight during any calendar day.
- e. The "average monthly' concentration means the arithmetic average of all the daily determinations of concentration made during a calendar month.
- f. The "daily determination of concentration" means either the concentration of a composite sample taken during a calendar day or the arithmetic average of all grab samples taken during a calendar day.
- g. The "maximum daily" concentration means the daily determination of concentration for any calendar day.
- h. The "instantaneous maximum" concentration means the concentration not to be exceeded at any time in any grab sample.
- i. The term "Composite Sample" means a combination of individual samples obtained at regular intervals over a time period. 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. The maximum time period between individual samples 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).
- The term "Grab Sample" means an individual sample collected in less than 15 minutes.

- k. The term "i-s" means immersion stabilization in which a calibrated device is immersed in the effluent stream until the reading is stabilized.
- The "average monthly" temperature means the arithmetic mean of temperature measurement made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month or during the operating month if flows are of a shorter duration.
- m. The "maximum daily" temperature means the highest arithmetic mean of the hourly temperatures observed for any two (2) consecutive hours during a 24-hour day, or during the operating day if flows are of a shorter duration.
- n. The term "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. The term "At outfall XXX" means a sampling location in outfall line XXX downstream from the last point at which wastes are added to outfall line XXX, or otherwise specified.
- p. The ter a "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. The term "non-contact cooling water" shall mean water which is used in a cooling system designed so as to maintain constant separation of the cooling medium fron: all contact with process chemicals but which 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 to the maximum extent feasible such contamination: and provided further, that all reasonable measures have been taken that will mitigate the effects of south contamination once it has occurred.

3. SELF-MONITORING, REPORTING, AND RECORDS KEEPING

a. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

Reporting of Monitoring Results

(1) Monitoring results obtained during each month shall be summarized for that month and reported on a Discharge Monitoring Report (DMR) Form postmarked no later than the 28th day of the following month. Duplicate signed copies of these and all other reports required herein, shall be submitted to:

> Regional Water Quality Manager Dept. of Environmental Resources Lee Park, Suite 6010 555 North Lane Conshohocken, PA 19428

(2) If the permittee monitors any pollutant, using analytical methods described in A.3.e. below, more frequently that 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. Non-Compliance Reporting

- <u>24-Hour Reporting</u> The permittee shall orally report to the Department within 24-hours of becoming aware of the following:
 - (a) Actual or anticipated non-compliance with any term or condition of this permit which may endanger health or the environment.
 - (b) Actual or anticipated non-compliance with any "maximum daily" discharge limitation which is identified in Part A.1 of this permit as being either:
 - A toxic pollutant effluent standard established by EPA pursuant to Section 307(a) of the Clean Water Act,
 - For a toxic or hazardous polutant which, if not adequately created, could constitute a threat to human health, weifare, or the environment, or

- (iii) Any pollutant identified as the method to control a toxic pollutant or hazardous substance (i.e. indicator pollutant).
- (c) Any unanticipated bypass which exceeds any effluent limitations in the permit.
- (d) Where the permittee orally reports this information within the above mentioned 24-hour time period, a written submission outlining the at we information must be submitted to the Department within 5-days of becoming aware of such a condition, unless this requirement is waived by the Department upon receipt of the oral report.

(2) Other Non-Compliance Reporting

- (a) The permittee shall give advance notice to the Department of any planned changes to the permitted activity or facility which may result in non-compliance with permit requirements.
- (b) Where the permittee knows in advance of the need for a by-pass which will exceed effluent limitations, it shall submit prior notice to the Department at least 10 days, if possible, before the date of the bypass.
- (c) The permittee shall report all instances of non-compliance which are not reported above at the time of DMR submission.
- (3) The reports and notifications required above shall contain the following information:
 - (a) A description of the discharge and cause of non-compliance;
 - (b) The period of non-compliance, including exact dates and times and/or the anticipated time when the discharge will return to compliance; and
 - (c) Steps being taken to reduce, eliminate, and prevent recurrence of the non-conclying discharge.
- d. Specific Toxic Substance Notification Levels 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 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 2methyl -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 it has begun, or expects to begin, to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

e. 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 alternate test procedures approved pursuant to that part.

f. Recording of Results

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

- (1) The exact place, date, and time of sampling or measurements;
- (2) The person(s) who performed the sampling or measurements;
- (3) The dates the analyses were performed;
- (4) The person(s) who performed the analyses;
- (5) The analytical techniques or methods used; and
- (6) The results of such analyses.

g. Records Retention

All records of monitoring activities and results (including al! 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. The three year period shall be extended as requested by the Department or the EPA Regional Administrator.

Page 8____ of 14 PA

4. SCHEDULE OF COMPLIANCE

a. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

b. Periodic Reports Required

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit to the Department a written notice of compliance or non-compliance with the specific schedule requirement. In the case of non-compliance, the notice shall include the cause of non-compliance, any remedial actions taken, the estimated date when compliance with the elapsed date shall occur, and the probability of meeting the next scheduled requirement.

1. MANAGEMENT REQUIREMENTS

- a. Permit Modification, Termination, or Revocation and Reissuance
 - This permit may be modified, terminated, or revoked and reissued during its term for any of the causes specified in <u>25 Pa. Code</u>, 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) Toxic Pollutants

Notwithstanding the above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge, and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, then this permit shall be modified or revoked and reissued by the Department to conform with the toxic effluent standard or prohibition and the permittee so notified.

In the absence of a Departmental action to modify or to revoke and reissue this permit, any toxic effluent standard or prohibition established under Section 307(a) of the Act is considered to be effective and enforceable against the permittee.

b. 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) The permittee shall give advance notice to the Department of any planned physical alterations or additions to the permitted facility.

c. Facilities Operation

The permittee shall at all times maintain in good working order and properly operate all facilities and systems (and related appurtenances) for collection and treatment which are installed or used by the permittee for water pollution control and abatement to achieve compliance with the terms and conditions of the permit. Proper operation and maintenance includes but is not limited to effective performance based on designed facility removals, adequate funding, effective management, adequate operator staffing and training, and adequate laboratory and processing controls including appropriate quality assurance procedures. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with this permit.

d. Adverse Impact

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from non-compliance with this permit.

e. Bypassing

- (1) Bypassing not Exceeding Permit Limitations The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, <u>but only if</u> the bypass is for essential maintenance to assure efficient operation. This type of bypassing is <u>not</u> subject to the reporting and notification requirements of Part A.3.c above.
- (2) Other Bypassing In all other situations bypassing is prohibited unless 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 a bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment down-time. (This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
 - (c) The permittee submitted the necessary reports required under Part A.3.c above.
- (3) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above.

f. Reduction, Loss, or Failure of the Treatment Facilities

Upon reduction, loss, or failure of the treatment facilities, in order to maintain compliance with its permit, the permittee shall control production and all discharges until either the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

g. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from adversely affecting the environment.

2. **RESPONSIBILITIES**

a. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law and 25 Pa. Code, Chapter 92, the permittee shall allow the 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:

- To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- (2) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; to inspect any collection, treatment, pollution management, or discharge facilities required under the permit; and to sample any substances or parameters at any location.

b. Transfer of Ownership or Control

- No permit may be transferred unless approved by the Department.
- (2) In the event of any pending change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the Department by letter of such pending change at least 30 days prior to the change in ownership or control.

- (3) The letter shall be accompanied by the appropriate Department forms for transfer of the permit and a written agreement between the existing permittee and the new owner or controller stating that the existing permittee shall be liable for violations of the permit up to and until the date of permit transfer and that the new owner or controller shall be liable for permit violations from that date on.
- (4) After receipt of the documentation above, the Department shall notify the existing permittee and the new owner or controller of its decision concerning approval of the transfer. In approving a transfer the Department may modify or revoke and reissue the permit.
- (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. Confidentiality of Reports

Except for data determined to be confidential under 25 Pa. Code, Chapter 92 all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department and the EPA Regional Administrator. Effluent data shall not be considered confidential.

d. Penalties and Liability

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

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

e. Froperty Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges; nor does it authorize any injury to private property or any invasion of personal rights.

f. Other Laws

Nothing herein contained shall be construed to be an intent on the part of the Department to approve any act made or to be made by the permittee inconsistent with the permittee's lawful powers or with existing laws of the Commonwealth regulating industrial wastes and the practice of professional engineering, nor shall this permit be construed to sanction any act otherwise forbidden by federal or state law or regulation, or by local ordinance. Nor does it pre-empt any duty to obtain state or local assent required by law for the discharge(s).

g. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of nay provision of this permit to any circumstances, is held invalid, the application of such provision to other circumtances, and the remainder of this permit, shall not be affected thereby.

Page	14	of .	14
PA	0051	1926	

OTHER REQUIREMENTS (Continued)

- 1. 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% of the samples tested.
- 2. This permit 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 ireating 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 relinguished to the Department.
- 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. There shall not be any discharge of polychlorinated biphenyl (PCB) compounds such as those commonly used for transformer fluid.
- 5. The following requirements apply with respect to the thermal impact of the discharge from Outfall 001 upon the Schuylkill River.

The discharge shall not cause a rise of stream temperature when the ambient stream temperature is 87°F or above; nor cause more than a 5°F rise above ambient temperature until stream temperature reaches 87°F; nor cause a change of stream temperature by more than 2°F during any one-hour period except within an assigned heat dissipation area consisting of one-half the stream width and 3000 feet downstream of the discharge point 001 to the river.

The permittee shall monitor the temperature of water withdrawn from the Schuylkill River and the temperature of the effluent discharged at Outfall 001 at least once per week and shall report the results on the Monthly Discharge Monitoring Report (DMR) for Outfall 001.

6. The additives and usage rate currently approved are the following:

Page	14a	of	14
PA	0051	926	

OTHER REQUIREMENTS (Continued)

Usage Rate (lbs/day)

Name	Average Monthly Maximum Daily
PEC-3	400 800
PEC-10 Average effluent limit mg/1	for Zinc at 001 must be limited to 0.7
PEC-12	2700 5400
Sodium Bromide 40	1900 1990
Betz DIS	4760 9520
ClamTrol CT-1 Average effluer FoamTrol 144A	t limit of whole product as 0.2 mg/l 450 900
Betz-3625 Average effluer Betz-860	t limit of whole product as 0.2 mg/l 23,000 46,000
Hydrothol 191 Average effluer RJD Product Formula No. 65	at limit of the product as 0.07 mg/l 306 306
PEC-04	4320 4320
PEC-05	4496 4496
Bramide Plus	1888 1888

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.

7. 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.

Page	14b	of	14
PA	0051	926	5

OTHER REQUIREMENTS (Continued)

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 sinty (60) days prior to the proposed use of the chemical. All required data must be provided on the <u>form</u> 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):

- i. 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).
- 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.

OTHER REQUIREMENTS (Continued)

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 in the <u>final</u> 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.

- 8. The term <u>Maximum Daily Concentration</u> 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.
- 9. The term <u>total residual oxidants</u> 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 CFR §136. This method is described in Standard Methods as the "amperometric titration method".
- 10. 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.

Page	14d	of	14
PA	0051	926	5

OTHER REQUIREMENTS (Continued)

- 11. Collected screenings, slurries, sludges, and other solids shall be handled and disposed of in compliance with 25 Pa. Code, Chapters 271, 273, 275, 283, and 285 (relating to permits and requirements for landfilling, land application, incineration, and storage of sewage sludge), Federal Regulation 40 CFR 257, and the Federal Clean Water Act and its amendments.
- 12. 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 rac'bactive 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 Resources Bureau of Radiation Protection P.O. Box 2063 Harrisburg, PA 17120

- 13. Spray pond blowdown shall be sampled and analyzed for the active ingredients of Hydrothol 191 during the use of the product in the spray pond, and during the time the discharge from the spray pond may contain this product. The Gas Chromatograph method shall be used for the analysis of the active ingredient. The results obtained shall be used to calculate the concentration of the whole product Hydrothol 191 at the Outfall 001. The calculations demonstrating compliance of the whole product with the effluent limitations (0.07 mg/l) contained in Part A of the permit shall be maintained at the site and the results must be reported on the DMRs.
- 14. Outfall 001 shall be sampled and analyzed for Betz 3625 and Betz Clam-Trol CT-1 on a weekly basis, with daily record keeping of the usage rates during use of the product. Spectrophotometer/colorimeter method shall be used for Betz 3625 with a detection level of 0.052 mg/l. Methyl Orange Method shall be used for Betz Clam-Trol CT-1 with a detection level of 0.2 mg/l.

(RN) 5.1

INSTRUCTIONS FOR UTILIZING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT

The original DMR form(s) included with your permit are provided to serve as a master. Copies of this form must be used when reporting the results of the monitoring requirements in your permit. Do not write on or send the original master. If you receive computer generated preprinted DMR forms they should be used in place of the enclosed forms.

A "Monitor Only" or "Report" contained in a permit requirement block indicates that the parameter is monitored and the test result reported in the appropriate block. Any test methods specified in Fart C of the permit must be used.

An "Average Weekly" value is defined as the highest weekly average value observed during the monthly monitoring period.

For parameters for which the effluent limit is lower than the Method Detection Limit (MDL) of the most sensitive existing EPA approved (40 CFR Part 136) test method or DER approved method, the parameters should be analyzed using the test method specified in Part C of the permit. The sample results must be specified on the DMR form as either the measured (quantified) value or as "less than" the detection limit used in the test (eg. < x.x). Results SHALL NOT be reported as "Not Detectable" or ND. For computing monthly averages, all "less than" sample results may be counted as zero values. All sample results used in computing monthly average values must be reported on the DMR form in the DMR form in the DMR comment section.

Loading or mass units shall be reported as the average of the calculated daily loadings during the monthly (or weekly) measurement period.

You should also note any other special instructions or definitions contained on the front and back of the DMR as well as page 3 and 4 of the permit.

Submit the completed forms to the State, EPA and County Health Department as required in the permit.

To Calculate Mass of Pollutants For a Sampling Errors

Use the sampling event reported concentration and perform the appropriate calculation as

concentration (mg/l) = 8.34 = flow (million gallons/day) =

1b/day

The value assigned to "flow (million gallons/day)" should be the 24-hour average flow for the outfail on the day the sample was taken. Where an outfail discharges for only part of a day (s hours), the daily mass value should be determined by using the z-bour average flow.

To Calculate an Arithemetic Average or Mean

Use the following equation:

$$X_1 + X_2 + X_3 + X_4 + \dots X_n$$

where a mumber of results X = value of each analytical result

Por example.

.

five samples were analyzed, their results were 75, 82, 90, 70, 85.

Te Calculate a Geometric Mean or Geometric Average (For Fecal Coliform Only)

Use the following equation:

where a sumber of analysis results X = value of each analytical result

Note: If any value of X is zero, substitute a 1.0 for the calculation.

For example,

five samples were analyzed, their results were 75, 82, 90, 70, 85.

To Calculate Average of Values Expressed as "Less than Numbers"

When averaging a series of values which are all expressed as "less than" values, add those numbers and divide by the number of values. Report it as "less than" that average number.

For example, the results are < 10, < 50 and < 25. Calculate the average as (10 + 50 + 25) + 3 = < 28.3.

When the series of values to be averaged is a mixture of real numbers and "less than" numbers, add all the numbers and divide by the number of values. The method of reporting the results will depend on the relative frequency of occurrence of "less than" numbers, and the relative difference in magnitude of the sample results. For example:

The avorage of < 10, < 25, 40	would be reported as < 25
The average of < 10, 40, 70	would be reported as 40
The average of <10, <10, 100	would be reported as 40

PERMITTEE NAME/ADDRESS (Include Facility Name Decorergy Company ADDRESS 2301 Market Street Philadelphia, PA 19101 FACILITY Limerick Generating Station		PA 0051926 PERMIT NUMBER			RING REPORT (DMR) ([7-19) 001 DISCHARGE NUMBER		Form Approved.								
							OMB No. 2040-0004								
								Approval expires 10-31-94							
LOCATION Limerick Townshi			YEAR MO DAY			YEAR MO DAY									
LOCATION	p, nonegou	iery 00.	FROM		TO	-									
	N	All Card Only) C	UANTITY OR LOA	21) (22-23) (24 MNG	1-25) (4 Card i				NOTE: Read i		before	com	pleting t	nis for	rm.
PARAMETER		AVERAGE	MAXTMEM /			8-45)			MAXIMUM			NO.	FREQUEN		AMPLE
(12.17)		MONTHLAGE	DATE INUM UNITS		MIN			ONTHLYE	DATLY			EX	ANALYSE (64-68)	1	(69-70)
	SAMPLE	NT							DALLI				(94-08)		(07.00)
Reality of the State of the Sta	PEPMIT	MONITOR	MONITOR						1	100	10	-			
FLOW	REQUIREMEN	REPORT	REPORT	MGD									1/WK	M	EAS.
TOTAL OUGDENDED +	SAMPLE	NT					-								
TOTAL SUSPENDED * SOLIDS		NT						30	60	MG/1	L		1/WK	2	4HC
(255)	SAMPLE	NT													
(Effluent) TEMPERATURE		NT							110	°F			1/WK	I	-s
TOTAL BROTHLY	SAMPLE	NT													
TOTAL RESIDUAL OXIDANTS	PERMIT	NT							0.2	MG/1	L I		1/WK	G	RAB
	SAMPLE	NT													
ZINC, TOTAL	PERMIT	NT						0.7	1.0	MG/1	.		1/WK	2	4 HC
	SAMPLE	NT													
COPPER, TOTAL **		чт						0.14	0.28	MG/1	L		1/WK	2	4 HC
	SAMPLE	NT													
		NT .			24								1214		1710
NAME/TITLE PRINCIPAL EXECUTIVE		ERTIFY UNDER PENALTY	OF LAW THAT I HAV	E PERSONALLY	EXAMINED	1			al and a second	TELE	PHONE		C	ATE	E
		D AM FAMILIAR WITH TH MY INQUIRY OF THOS TAINING THE INFORMATIC IE ACCURATE AND C NIFICANT PENALTIES FO	E INDIVIDUALS IMMED ON I BELIEVE THE SU COMPLETE I AM AV IP SUBMITTING FALSE	LATELY RESPONS UBMITTED INFOR VARE THAT TH INFORMATION	BELE FOR MATION IS ERE ARE INCLUDING										
TYDED OF BRILITED		USC \$ 1310 (Penalte	AND IMPRISONMENT S is under these statutes	EE 18 USC §	1001 AND	SIGN		OF PRINCIPA		105					
COMMENT AND EXPLANATION OF A	the second se		isonment of between 6 months and 5 years.)			OFFICER OR AUTHORIZED AGENT			AREA CODE NUMBER			YEAR	MO	DAY	

* These limits are effective October 1, 1995. Until such time monitor and report.

* These are net limits effective July 1, 1995. Sample and report analysis results.

PERMITTEE NAME/ADDRESS (Includ Facility Name PECO Energy Com ADDRESS 2301 Market Stro Philadelphia, P	pany			PA 005	(2-16)			NYSTEM (NPDES) RT (DMR) (17-19) DOI		Form Appro OMB No. 20		04	
FACILITY Limerick General LOCATION Limerick Townsh			Co.	FROM				the second se		Approval ex	pires 1	0-31-94	
PARAMETER	N	10	[†] Card Only) QU (46-51)	(20-21) ANTITY OR LOADI (54-61)	(22-23) (24- NG	(4 Card C	Daly)	QUALITY OR CON		ructions befor	1	pleting thi	1
(32-07)		1	AVERAGE	MAXIMUM	UNITS	MINT		AVERAGE MONTELAGE	DATCHIM	UNITS	NO. EX	ANALICIS	SAMPLE
	SAMPL					CILINI.	non	HONTHEI	DALLI		(62-63)	(64-68)	(69-70)
TEMPERATURE INTAKE WATER	PERMIT								Monitor/ Report	°F		1/WK	I-S
	SAMPLI												
HYDROTHOL 191	PERMIT							0.07	0.14	MG/L		1/MO	GRAB
	SAMPLI												
BETZ - 3625	PERMIT							0.2	0.4	MG/L		1/WK	GRAB
	SAMPLI												
CLAMTROL CT-1	REQUIREM							0.2	0.4	MG/L		1/WK	GRAB
	MEASUREM												
pH	PERMIT					2.3.3	6.0	I	nst.Max. 9.0	STD	\$	1/WK	GRAB
	SAMPLE								1. N. 1999			1.	
PHOSPHORCUS AS P	PERMIT							MONITOR/ REPORT	MONITOR/ REPORT	MG/L		1/WK	24HC
	SAMPLE												
	PERMIT												1992
NAME/TITLE PRINCIPAL EXECUTIV	/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY LINDER PENAL AND AM FAMILIAR WITH ON MY INCURY OF TH OBTAINING THE INFORM TRUE ACCURATE AND SIGNIFICANT PENALTIES			NEORMATION SUBMITT INDIVIDUALS JAMEDIATI I BELIEVE THE SUBM PLETE I AM AWAR SUBMITTING FALSE IN	ED HEREIN AND ELY RESPONSE MITTED INFORM RE THAT THE FORMATION IN	D BASED BLE FOR ATION IS RE ARE			-	TELEPHON	E	DA	TE
TYPED OR PRINTED	3	HE POSS 3 USC 10/00 and	\$ 1319 (Penalties	D INPRISONMENT SEE under these statutes o ment of between 6 month	18 USC § 10 tav include fini	XTLAND I		URE OF PRINCIPAL	DAGENT A	REA NUME	ER	YEAR M	O DAY

45 | Kelerence all attac ients here

PERMITTEE NAME/ADDRESS (Inclu Facility Name NAME ADDRESS 2301 Market Sti Philadelphia, 1	mpany reet			ARGE MO (2-16) 151926		EPOR	YSTEM (NPDES) T (DMR) (17-19) 01 Arge Number		Form Approv OMB No. 204	10-00		
FACILITY Limerick Generation Limerick Towns	ating Statio hlp, Montgom	n ery Co.	FROM		TO	ARN	MO DAY	NOTE: Read instru	Approval exp			form
PARAMETER	N		UANTITY OR LOAD		(4 Card Only) (QUALITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
(32-37)		AVERAGE MOMMERCE	DATETIMUM	UNITS	INST.		AVERAGE MONTRÉSE	INST!	UNITS	EX	ANALYSIS	TYPE
	SAMPLE	1					TONTILL	TRACINUM		(62-63)	(54-68)	(69-70)
FLOW	PERMIT		MONITOR	GPD	No.			4.14			1/WK	MEAS.
	SAMPLE	REPORT	REPORT									
CBOD5	SAMPLE						25		MG/L		1/WK	8HC
	SAMPLE MEASUREMENT											
SUSPENDED SOLIDS	PERMIT REQUIREMEN	т					30		MG/L		1/WK	8HC
	SAMPLE	т										
FECAL COLIFORM	PERMIT	т					200		#/100m]		1/WK	GRAB
	SAMPLE	ит										
pH	PERMIT	т			6.	0		9.0	STD		1/WK	GRAB
	SAMPLE	т										
	PERMIT	т										
	SAMPLE	εT										
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUT TYPED OR PRINTED	TITLE PRINCIPAL EXECUTIVE OFFICER AND AM FANGURA WIT ON MY FANGURA ON MY SUGNIFICANT PENALTE THE POSSIBULTY OF F				ND BASED JIBLE FOR MATION IS ERE ARE INCLUOING ICO1 AND 765 90 10		RE OF PRINCIPAL	ED AGENT AF				ATE

PERMITTEE NAME/ADDRESS (Include Facility Name PECO Energy Comp ADDRESS 2301 Market Stre Philadelphia, PA	et			DISCH	(2-16)	ONITORI		ORT ((17-) 201			Form Appr OMB No. 2		004	•	
	5 61 11				MON	ITORIN	C PEP	00			Approval e	xpires '	10-31-94		
FACILITY Limerick Generat			1	YEAR		DAY	YEAR	-	DAY						
LOCATION LINETICE TOWNSHI	p, nonrgome	ry co.	FROM			TO	,								
	R	Auguaria			(22-23) (.	the state of the second s	servery provide a start of the start when		the second se	Contraction of the second s	structions befo	ore con	npleting	his for	m.
PARAMETER	1	(3 Card Only) 《 AVER确信約	MAXIMEN		NG	(4 Card	Only) 18-45)	QUA	AUTY OR CONC	MATT	0TM	NO.	FREQUEN	CY SA	AMPLE
(32-37)		MONTALAGE	DATLY		UNITS	-	NIMUM		AVERAGENLY	MAXIE		EX	ANALYS	15	69-701
	SAMPLE	т													
FLOW	PERMIT	MONITOR r REPORT	MONITOR REPORT		GPD								1/WK	M	EAS.
	SAMPLE	т													
TOTAL SUSPENDED SOLIDS	PERMIT								30	100	MG/L		1/WK	GI	RAB
	SAMPLE MEASUREMENT														
OIL AND GREASE	PERMIT REQUIREMEN	r							15	20	MG/L		1/WK	GF	RAB
	SAMPLE	τ													
	PERMIT REQUIREMEN	r													
	SAMPLE	т													
	PERMIT	r													
	SAMPLE	т													
	PERMIT	r													
	SAMPLE	т													
	PERMIT REQUIREMEN	r											125		
NAME/TITLE PRINCIPAL EXEC JTIV	MEASUREMENT PERMIT REQUIREMENT IE/TITLE PRINCIPAL EXECUTIVE OFFICER AND AM FAMILIAR WITH- ON MY INOLINY OF T OBTAINING THE INFORM SIGNIFICANT PENALTES THE POSSIBILITY OF FI 33 USC 6 1319 (P			SUBMITTI IMMEDIATI HE SUBM M AWAF FALSE IN INT SEE Itatules in	ED HEREIN ELY RESPON MITTED INFO RE THAT T FORMATION 18 U.S.C. § May include	AND BASED NSIBLE FOR IRMATION IS THERE ARE INCLUDING 1001 AND fines up to	SIGNA		OF PRINCIPAL I		TELEPHO	ABER	YEAR	DATE	DAY
COMMENT AND EXPLANATION OF A	ANY VIOLATIONS	Dafarance all attaches	ante forent		the second second second second						CODE		1		

LATIONS (Reference all attac

PERMITTEE NAME/ADDRESS (Include Iscility Name/Location if different) NAME PECO_ Energy_ Compa	iny			HARGE MONI		REPOR		5)					•	
ADDRESS 2301 Market Stree	et		PA 00	51926		30	1 *	Dur	ing the p	e Foir or App fo	ventebv	drydrai	n '	
Philadelphia, PA	19101		PE	RMIT NUMBER		DISCH	ARGE NUMBER	was	stewater d	and the second se				
				MONITO	PING	PERIO				Approval ex	pires 1	10-31-94		
FACILITY Limerick Generati			YEA				MO DAY							
LOCATION Limerick Township	, Montgomer	y Co.	FROM		TO									
	R	1		1 (22-23) (24-25	Contraction of the local division of the loc	and the second second second	8-29) (30-31)		DTE: Read instr	uctions befor	e con	pleting th	tis for	n.
PARAMETER	\sim	AVERAGE	MAXTNUM	HING (4 Card On (38-4)		QUALITY OR		(34-61)		NO.	FREQUENC	Y 54	MPLE
(32-37)		MONTHLY	DAILY	UNITS	MININ	IUM	AVER	HLY	MAXATLY	UNITS	EX	ANALYSIS	5 J	69-70)
	SAMPLE		ACAL MAN											
FLOW	PEPMIT	MONITOR	MONITOR	GPD								1/WK	ME	EAS.
	SAMPLE													
TOTAL SUSPENDED SOLIDS	PERMIT						30		100	MG/L		*	GF	RAB
	SAMPLE													
OIL AND GREASE	PERMIT						15		20	MG/L		*	GF	RAB
	SAMPLE MEASUREMENT			1.11										
	PERMIT													
	SAMPLE													
	PERMIT												1934	
	SAMPLE			1.18										
	PERMIT													
	SAMPLE MEASUREMENT					6.6								
and the second	PERMIT													
NAME/TITLE PRINCIPAL EXECUTIVE	AND A ON M OBTAIN TRUE	IN FAMILIAR WITH TH Y INDURY OF THOS ING THE INFORMATIC ACCURATE AND C	OF LAW THAT I HAVE E INFORMATION SUBMIT E INDIVIDUALS IMMEDIA IN I BELIEVE THE SU COMPLETE I AM AW IT SUBMITTING FALSE	TED HEREIN AND MELY RESPONSIBLE BMITTED INFORMAT ARE THAT THER	BASED E FOR NON IS E ARE				-	TELEPHON	E		ATE	
TYPED OR PRINTED	THE P 33 U	OSSIBLITY OF FINE I	AND INFRISONMENT SE inder these statutes sourment of between 6 mor	E 18 USC § 100 may include fines	AND		RE OF PRINCI		ACENT A		BER	YEAR	мо	DAY

PERMITTEE NAME/A DDRESS (Inclu Facility Name La Saturn if different) NAME PECO Energy Com	pany			ARGE MO	NITORIN	G REP	ORT (D	MR)	0				
ADDRESS 2301 Market Str			PA 005				003		his form mus	t kemused	veluri	ing disc	charge
Philadelphia, P	PA 19101		PERM	MIT NUMBER	2	01	SCHARGE N		f cooling to				
								*	Sample duri	ngAshisahaa	pites 1	0-31-94	
FACILITY Limerick Genera	the second secon		WE AD		TORING								
LOCATIONLIMERICK Townsh	nip, Montgom	ery Co.	FROM	MO D	AY TO	YEAR	MO	DAY					
			(20-21)	(22-23) (24	1-251	(26-27)	(28-29)	(30-31)	NOTE: Read ins	tructions befo	re com	pleting this	s form.
	N		QUANTITY OR LOADIN	and the second se	(4 Card (Only)			CONCENTRATION		T	1	1
PARAMETER (32-37)	\sim	AVERAGE	MAXIMUM ⁽⁾		(38	(-45)	AVE	RAGE	MAXTEMEN		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE
(52-57)		MONTALAGE	DATLY	UNITS	MIN	IMUM	MOR	THRAGE	DATCHUN	UNITS	(62-63)	(64-58)	(69.70)
	SAMPLE	NT											
	PEPMIT	MONITOR/	MONITOR/				-				-	1	
FLOW	REQUIREMEN	REPORT	REPORT	MGD	12.00		100				1962	*	MEAS.
	SAMPLE	NT											
TOTAL SUSPENDED SOLIDS	PERMIT	т						TOR/ ORT	MONITOR/ REPORT	MG/L	12.1	*	GRAB
	SAMPLE	NT											
TEMPERATURE	PERMIT	т							110	°F		*	I-S
TOTAL DESTRUCT	SAMPLE	NT							12.2.5				
TOTAL RESIDUAL OXIDANTS	PERMIT	чт							0.2	MG/L		×	GRAB
	SAMPLE	NT											
ZINC, TOTAL	REQUIREMEN	т						0.7	1.0	MG/L		*	GRAB
	SAMPLE	NT											
COPPER, TOTAL **	PERMIT	er -						0.14	0.28	MG/L		*	GRAB
	SAMPLE	NT					WINTY	0.5/	MANY MAN /				1
PHOSPHORUS AS P	PERMIT	T					MONIT		MONITOR/ REPORT	MG/L		•	GRAB
NAME/TITLE PRINCIPAL EXECUT		ERTIFY UNDER PENALT	Y OF LAW THAT I HAVE HE INFORMATION SUBMITT	PERSONALLY	EXAMINED					TELEPHO	NE	D	ATE
	ON OB TR SIG THI 33	MY INQUIRY OF THO TAINING THE INFORMAT JE ACCURATE AND NIFICANT PENALTIES F E POSSIBILITY OF FINE LISC \$ 1319 (Penalt	SE INDIVIDUALS IMMEDIATION I BELIEVE THE SUB COMPLETE I AM AWAR OR SUBMITTING FALSE IN AND IMPRISONMENT SEE ies under these statutes in	ELY RESPOND MITTED INFOR RE THAT TH NFORMATION 18 U.S.C. \$ nov include (SIBLE FOR MATION IS HERE ARE INCLUDING 1001 AND files up to				PALEXECUTIVE	ADEA			
COMMENT AND EXPLANATION OF	the second s		risonment of between 6 month	ns and 5 years.)	,	OF	FICER O	RAUTHO		AREA NUM	BER	YEAR N	MO DAY

** These limits are effective October 1, 1995. Until such time monitor and report.

PERMITTEE NAME/ADDRESS (Inch Facility Name/Location if different) NAME PECO Energy Con				NATIONAL POL	ARGE MON	HARGE ELI	G REPOI	SYSTEM (NPDES) RT (DMR) (17-19)					•	
ADDRESS 2301 Market Str	reet			production with the state of				03 Thi	s form must	t Fern Aper	vaduri	ing dis	char	ge
Philadelphia,-I	PA 19101	-		PER	MIT NUMBER		Disc	HARGE NUMBER OF	s form must cooling to Sample durin	ve PMB Nov 20	40-09	hrough	003	
FACUTY					MONIT	ORING	PERIC	* 5	Sample duri	ng dischai	rge.	0-31-94		
FACILITY Limerick General	ating Stat	ion-	and the set of the set	FROM	MO DA	TO	YEAR	MO DAY						
LOCATION Limerick Towns	hip, Montg	omery	-County		(22-23) (24-		(36, 27)	28-29) (30-31)	NOTE: Read ins	tructions befor	re com	oleting th	is form	
		1	(3 Card Only) QU	ANTITY OF LOAD		(4 Card O		QUALITY OR CO			1	1		
PARAMETER (12-37)	\rightarrow		(46-53)	(54-61)	-	(38-	45)	(46-53)	(54-61)		NO.	FREQUENC OF ANALYSIS	SA	TPE
132-373		~	AVERAGE	MAXIMUM	UNITS	MINI	MUM	AVERAGE	MAXIMUM	UNITS	(63-63)		1.0	\$9-701
	SAMP							MONTHLY	DAILY					
HYDROTHOL 191	PEPA					143		0.07	0.14	MG/T.		1/MO	0	LAR
	SAMP							0.07	0.14	- FR#/ E		17510	68	AB
BETZ-3625	REQUIRE							0.2	0.4	MG/L		1/WK	CR	AB
	SAMP											1, 40		A0
CLAMTROL CT-1	REQUIRE							0.2	0.4	MG/L		1/WK	CR	AB
	SAME													
PH	REQUIRE						NST. M 6.0	IN	INST. MAX 9.0	. STD		1/WK	GR	AB
	SAMP													
	REQUIRE													
	SAMP													
	REQUIRE													
	SAMP													
	REQUIRE			12.00						2.1				
NAME/TITLE PRINCIPAL EXECUT	TIVE OFFICER	AND AN ON MY OBTAINS TRUE SIGNIFIC	A FAMILIAR WITH THE INCLIMPY OF THOSE NG THE INFORMATION ACCURATE AND CO CANT FENALTIES FOR	INFORMATION SUBMIT INFORMATION SUBMIT INDIVIDUALS IMMEDIAT I BELIEVE THE SUB METLETE I AM AWA SUBMITTING FALSE I D MERISONMENT GEE	TED HEREIN AN TELY RESPONSI MITTED INFORM RE THAT THE NFORMATION IP	ID BASED BLE FOR MATION IS GRE ARE VCLUDING	SIGNAT			TELEPHON	NE	D	ATE	
TYPED OR PRINTED	D	23 US	C § 1319 (Penalties	under these statutes in ment of between 6 mont	may include fin	tes up to		CER OR AUTHOR	TED ACENT	AREA NUM	BER	YEAR	MO	DAY

PERMITTEE NAME/A/JORESS / Facility Name/Location if different NAME PECO Energy ADDRESS 2301 Market	Company Street			NATH	DISC	HARGE M	ONITO	RING R	EPORT	EM (NPD DMR)	E\$)					
Philadelphia	, PA 19101			1		51926] [005		the c					
where we are a set of the set of				L	PER	RMIT NUMBER	R] [DISCHARG	NUMBER .	This form of coolir	n must	form Appen	werdur	ing di	schar
FACILITY Limerick Gene LOCATIONLimerick Town	erating Star	tion				MONI	TOR	ING PE	RIOD				g Approved			h 005
	isuip, Monti	gomer	у_Со	FROM	YEAR		AY		R MO	DAY		uur 10	g uischa	THE.	0-31-94	
PARAMETER	N		100000		(20-21)	(22-23) (24		1								
(32-37)		-	AVERAGE		LOAD	NG		rd Only)	7) (28-29) QUA	(30-31)	NOTE: RE	ad instr	uctions befo	re com	pleting th	is form
			MONTHLY	MAXIMUM		1		(38-45)	A 171	ERAGE				1		1
	SAMP	LE	PIONTHLY	DAILY		UNITS	-	MINIMUM		AVERAGE	MAX'I DAI	X IB-FI IB-FI	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAI T
FLOW	REQUIRE		MONITOR/ REPORT	MONITOR	2/	MOD	-						_			
TOTAL SUSPENDED	MEASURE	MENT		- OKI		MGD							-			ME
SOLIDS	REQUIREN	MENT							-							
	SAMPL	F							MONI		MONITOR REPORT		MG/L	*		CD
TEMPERATURE	REQUIREM	T														GR
TOTAL RESIDUAL	SAMPLE	E									110		°F	*		I-S
OXIDANTS	REQUIREME	ENT				-										
	SAMPLE	ENT							-		0.2		MG/L	*		GRA
LINC, TOTAL	PERMIT	INT							-							
	SAMPLE	INT							0	.7	1.0		MG/L	*		GRAE
OPPER, TOTAL **	REQUIREMEN	NT														
	SAMPLE	NT			-				0.	14	0.28		IG/L	*		GRAB
HOSPHORUS AS P	PERMIT	т			-			M	ONITOR	,	MONTMON					
ME/TITLE PRINCIPAL EXECUTIV	AN(1)	ERTIFY UN	NDER PENALTY OF I	AW THAT I HAN	-				REPORT		MONITOR/ REPORT	-	12			
	OBT	APRING TH	HE INFORMATION 1	NUDUALS IMMED	RATELY	RESPONSIBLE	FOR				1 Uni	MG	LEPHONE	*	DAT	GRAB
TYPED OR PRINTED	SIGN	POSSIBIL	PENALTIES FOR SU	ETE I AM AV BMITTING FALSE	NARE T	HAT THERE	ARE							1	T	T
MENT AND EXPLANATION OF A	\$100	MAR and or	maximum imprisonmen	er these statutes it of between 6 min	may a	nclude lines up	aND to	SIGNATU	ER OF AL	INCIPAL	EXECUTIVE D AGENT	AREA				
** These limits are	effective (Octob	er 1, 1995.	Until	nuch							CODE	NUMBER	YEA	R MO	DAY

PERMITTEE NAME/ADDRESS (Inclo Tacility Name/Jacation if different) NAME PECO Energy Con	mpany		DISC	HARGE MO			ORT (D)	9) 9)					• •
ADORESS 2301 Market St Philadelphia,				051926 RMIT NUMBER	-	1018	005		is form mus cooling to				
					استجنب			*	Sample duri	n gapilios siba	前降 -1	0-31-94	
FACILITY Limerick Genera	ating Stati	on			TORING	-		Low					
LOCATION Limerick Towns	hip, Montgo	mery County	FROM	R MO D	TO	YEAR	MO	DAY					
	and the second second second in		(20-2	() (22-23) (24	1-251	(26-27)	(28-29)	(10-11)	NOTE: Read insl	ructions befo	re com	pleting th	is form.
	N	(3 Card Only)	QUANTITY OR LOAD		(4 Card C	and the second se		service and the service of the servi	ONCENTRATION		T	1	
PARAMETER	\sim	(46-53)	(54-61)		(38	-45)		(46-53)	(54-61)		- EX	FREQUENCY OF ANALYSIS	and the second
(32-37)		AVERAGE	MAXIMUM	UNITS	MIN	IMUM	MO	MARCAE	DATEMUM	UNITS	(52-63)		(89-70)
	SAMPLI												
HYDROTHOL 191	PERMIT						0	.07	0.14	MG/L		1/MO	GRAB
	SAMPLI												
BETZ-3625	PERMIT						0	.2	0.4	NG/L		1/WK	GRAB
	SAMPLI												
CLAMTROL CT-1	PERMIT						0	.2	0.4	MG/L		1/WK	GRAB
	SAMPLI												
PH	PERMIT					6.0	MIN		INST. MAX 9.0	STD		1/WK	GRAB
	SAMPLI		12.00.78										
	PERMIT												
	SAMPLI												
	PERMIT												
	SAMPLE												
	PERMIT												
NAME/TITLE PRINCIPAL EXECUT	REQUIREMENT				IND BASED SIBLE FOR MATION IS HERE ARE INCLUDING					TELEPHO	NE		ATE
TYPED OR PRINTED		THE POSSIBILITY OF FINE 33 USC \$ 1319 (Penah 10,000 and or maximum imp	ties under these statutes	may include f	fines up to				AL EXECUTIVE	AREA NUM	BER	YEAR	MO DAY

PERMITTEE NAME/ADDRESS (Inclu Facility Name/Location if different) NAMEPECOEnergy_Com				NAT		ARGE M				DMR)	\$?						
ADDRESS2301 Market Str	eet				PA 005	1926		-	020	*	During the	pefd	Appfor	vedol	ingwat	er	*
Philadelphia, P	A 19101			_ [PER	MIT NUMBE	R		наснаяс	E NUMBER	blowdown di						a
					-	MON	TODIN	C			frequency	of An	preval ex	nirek 1	0-31-94		
FACILITY Limerick Genera	ting Stati	on			YEAR		TORIN	YEAR	-	DAY							
LOCATIONLimerick Townsh	ip, Montgo	mery	_Co.	FRO			TO		e mo	URI							
					(20-21)	(22-23) 12	14-251	(26-27)	1 (28-29) (30-31)	NOTE: Read in	nstructi	ons befor	re com	pleting th	his for	m.
		× 1	(3 Card Only) Q			NG	(4 Card		QUA	ALITY OR	CONCENTRATION			1	1		
PARAMETER (12-37)	\rightarrow		AVERAGE	MAXIMU	11 ····	-	IN	ST.	AV	ERACE	INST-61)			EX	FREQUENC OF ANALYSI	S	AMPLE
1.22.07		~	MONTHLY	DATLY	XIMUM	UNITS	M	NIMUM	MO	AYARAG	MAXIMUN	IM	UNITS	(62-63)		100	(89-70)
	SAMPL	E						211	1100		THE REALISTS						
FLOW	REQUIREM	· · · · · · · · · · · · · · · · · · ·	IONITOR REPORT	MONIT REPO		MGD	1								1/MO	C	ALC.
	SAMPL																
TOTAL SUSPENDED SOLIDS	REQUIREM									NITOR/ EPORT			IG/L		*	G	RAB
	SAMPL																
TEMPERATURE	PERMI										110	p	F		*	I	-s
	SAMPL				-												
РН	PERMI							6.0			9.0	5	TD		1/MO	G	RAB
	SAMPL					P											
	PERMI																
	SAMPL																
	PERMIT																
	SAMPL									1993							
	PERMIT																
NAME/TITLE PRINCIPAL EXECUT		AND AN ON MY OBTAIN! TRUE SIGNIFIC THE PO	FY UNDER PENALTY I RAMUAR WITH TH INQUIRY OF THOS NG THE INFORMATIC ACCURATE AND C ANT PENALTIES FO ISSIBILITY OF FINE J 6 1319 (Bunchic	E INFORMATIK E INDIVIDUAL IN I BELIEVE COMPLETE I R SUBMITTIN AND IMPRISO	ON SUBMITT 5 IMMEDIAT 5 THE SUB AM AWAI IG FALSE I NMENT SEE	ED HEREIN MITTED INFO RE THAT T NFORMATION 18 USC \$	AND BASE NSIBLE FOR RMATION IS HERE ARE INCLUDING TODI AND	SIGN	ATURE	OF PRINC	IPAL EXECUTIVE	T	ELEPHON	NE		DATE	E
TYPED OR PRINTED		\$10,000	C § 1319 (Penaltie and or maximum impri- impri-	somment of bet	ween 6 monti	hs and 5 years	ines up to	OF	FICER	OR AUTHO	ORIZED AGENT	AREA	NUM	BER	YEAR	MO	DAY

AME 2301 Market Str	npany		DISCH	HARGE MONIT		(17-19) 021 Measur		requerasor			
Philadelphia, P	A 19101		PET	RMIT NUMBER	DISC	CHARGE NUMBER TO at	least t				high
				MONITO	RING PERIC	flow.		Approval ex	pires '	10-31-94	
ACILITY Limerick Genera OCATION Limerick Townsh	ting Stati	County	YEAF	an agriculture of the part of the second	YEAR	the second se					
CATION SIMETICK LOWISH	1p, riont goue	y county	FROM		TO						
		1.1.0.10.1.1.0		(1) (22-23) (24-25)			and the second se	structions befo	re con	npleting this	form.
PARAMETER		AVERACE	MAXIMUM	ANG 14	(38-45INST	QUALITY OR CONC.	INST		NO.	FREQUENCY	SAMPL
(32-37)		MONTERE	DATENUM	UNITS	MINIMUM	AVERONTHLY	MAXIMU		EX (62-63	ANALYSIS	(69-70)
	SAMPLE	TOTTE	WELL DX						10.0	(84-03)	10-10
FLOW	PERMIT	MONITOR REPORT	MONITOR REPORT	GPD						MONTHLY	EST.
	SAMPLE										
TOTAL SUSPENDED SOLIDS	PERMIT REQUIREMENT					MONITOR REPORT		MG/L		MONTHLY	GRAB
	SAMPLE MEASUREMENT										
рH	PERMIT REQUIREMENT				6.0		9.0	STD		MONTHLY	GRAB
TOTAL PIPE DAILY	SAMPLE MEASUREMENT										
TOTAL KJELDAHL NITROGEN	PERMIT REQUIREMENT					MONITOR REPORT		MG/L		MONTHLY	GRAB
	SAMPLE MEASUREMENT					NONTROP					
TOTAL PHOSPHORUS	PERMIT					MONITOR REPORT		MG/L		MONTHLY	GRAB
	SAMPLE MEASUREMENT										
IRON, DISSOLVED	PERMIT REQUIREMENT					MONITOR REPORT		MG/L		MONTHLY	GRAB
TOTAL DESTRICT	SAMPLE MEASUREMENT					VOUTTOD					
TOTAL RESIDUAL CHLORINE	RESIDUAL					MONITOR REPORT		MG/L		MONTHLY	GRAB
NAME/TITLE PRINCIPAL EXECUTI			OF LAW THAT I HAVE					TELEPHO	NE	DA	TE
	ON MY OETAINI TRUE SIGNIFR	IN INQUIRY OF THOSE NING THE INFORMATIO ACCURATE AND C ICANT PENALTIES FOR	HE INFORMATION SUBMIT SE INDIVIDUALS IMMEDIA ION I BELIEVE THE SUB COMPLETE I AM AWA OR SUBMITTING FALSE	ATELY RESPONSIBLE UBMITTED INFORMATIC VARE THAT THERE INFORMATION INCL	E FOR ION IS ARE UDING						
	33 US	S.C. § 1319 (Penaltie	AND IMPRISONMENT SE ies under these statutes	may include fines	ap to	TURE OF PRINCIPAL E		AREA			
TYPED OR PRINTED	and the second se	eference all attachme	risonment of between 6 mon	nins and 3 years.)	000	ICER OR AUTHORIZED	AGENT	CODE NUM	BER	YEAR N	10 D.

PERMITTEE NAME/ADDRESS (Includ Facility Name/Location if different) NAME PECO Energy Com ADDRESS 2301 Market Stru	pany			PA 00	HARGE MON (2-16) 151926		G REPO	(17-19) 123 Thi	ls form must					
Philadelphia, P	A_19101			PEI	RMIT NUMBER		Disc	many rest of the line of the second sec	cooling tow Sample durin				n 023	
FACILITY Limerick General LOCATIONLimerick Townsh			County	FROM (30-3)	MONIT R MO DA	то	YEAR	D	NOTE: Read inst				his form	
		13		ANTITY OR LOAD	and the second se	(4 Card O	aty)	QUALITY OR CO	NCENTRATION		NO.	1	1	MPLE
PARAMETER (32-37)	\times		(46-53)	(54-61) MAXIMUM	UNITS	(38-	MUM	(46-53)	(54-61)	UNITS	EX	FREQUEN OF ANALYSI	5	YPE
	SAMPLE							MONTHLY	DATLY		(62-63)) (54-58)	(3)	9-701
HYDROTHOL 191	PEPMIT							0.07	0.14	NG/L		1/MO	GR	AB
	SAMPLE													
GETZ-3625	PERMIT							0.2	0.4	MG/L		1/WK	GR	LAB
	SAMPLE													
CLAMTROL CT-1	REQUIREM							0.2	0.4	MG/L		1/WK	GR	AB
	SAMPLE						5.							-
PH	PERMIT						NST. 1 6.0	11 N	INST. MAX. 9.0	STD		1/WK	GR	AB
	SAMPLE													
	PERMIT													
	SAMPLE													
	PERMIT													
	SAMPLE													
	PERMIT													
	REQUIREMENT AME/TITLE PRINCIPAL EXECUTIVE OFFICER AND AM FAMILIAR WITH TI ON MY INDURY OF THO OBTAINING THE INFORMAT TRUE ACCURATE AND SIGNERCART PENALTIES FI THE POSSIBILITY OF FINE 33 USC § 1319 (Print				TED HEREIN AND ATELY RESPONSIE BMITTED INFORMUTED INFORMATION IN E 18 USC § 10 may include time	9 BASED ILE FOR ATION IS RE ARE CLUDING X01 AND				TELEPHON	νE		DATE	
TYPED OR PRINTED	3	10100 and	or maximum imprisoi	nment of between 6 mor	nths and 5 years.)		OFFI	CER OR AUTHORI	ZED AGENT	ODE NUM	BER	YEAR	MO	DAY

PAGE OF

PERMITTEE NAME/ADDRESS (Inclu Facility Name Josefler if different) NAME PECO Energy Con ADDRESS 2301 Market Str	npany			12-16)					9) 9)	is form mus	t FRAM MARIE	vedur	ing disc	charge
Philadelphia, I	PA 19101		PET		BER		DIS	CHARGE	NUMBER OF	cooling to	wegwegwegw	45-90	hrough	023.
FACILITY Limerick Genera	tine Chatfor			MO	NITO	RING F	FRI	OD	*	Sample duri	n Baphiosaina	151 <u>86</u> -1	0-31-94	
LOCATION Limerick Townsh	in. Monteome	ry Co.	YEA		DAY	Y	EAR		DAY					
LOCATION			FROM	1	- 24 25	TO				NOTE: Read inst	nuctions hato		nisting this	form
	N	(3 Card Only)	UANTITY OR LOAD) (22-23) HNG		Card Only			(10-11)	INCENTRATION	ructions beto	Tecom	1	1
PARAMETER		AVERAGE	MAXIMUM	-		(38-45	1	AV	ERAGE	MAXIMUM		NO.	FREQUENCY OF ANALYSIS	SAMPLE
(32-37)		MONTER	DATCTIMUM	UNIT	rs	MINIMU	JM	MO	NTREPE	DATETIUM	UNITS	162-631	(64-68)	(69-70)
	SAMPLE	т												
	PEPMIT	MONITOR/	MONITOR/					1				-		
FLOW	REQUIREMEN	REPORT	REPORT	MGD									*	MEAS.
	SAMPLE	т												
TOTAL SUSPENDED SOLIDS	PERMIT	r							ITOR/ PORT	NONITOR/ REPORT	MG/L		×	GRAB
	DS REQUIREMENT													
TEMPERATURE	PERMIT			1.						110	°F		*	I-S
	SAMPLE	т												
TOTAL RESIDUAL OXIDANTS	PERMIT	T							1.5 45	0.2	MG/L		*	GRAB
	SAMPLE MEASUREMEN	т												
ZINC, TOTAL	PERMIT	T							0.7	1.0	MG/L		*	GRAB
	SAMPLE	π												
COPPER, TOTAL **	PERMIT	r							0.14	0.28	MG/L		*	GRAB
	SAMPLE	т								want man /				
PHOSPHORUS AS P	PERMIT	т						and the second s	ORT	REPORT	MG/L		*	GRAB
NAME/TITLE PRINCIPAL EXECUT	TITLE PRINCIPAL EXECUTIVE OFFICER										TELEPHO	NE	DA	TE
	ON OBT TRU SIGN	MY INQUIRY OF THOS AINING THE INFORMATI E ACCURATE AND (IFICANT PENALTIES FO	SE INDIVIDUALS IMMEDIO ON I BELEVE THE SU COMPLETE I AM AW OR SUBMITTING FALSE	ATELY RESP BMITTED IN ARE THAT INFORMATIC	PONSIBLE IFORMATI THERE ON INCL	E FOR ON IS ELL G								
TYPED OR PRINTED		USC § 1319 (Penalti	AND IMPRISONMENT SE ies under these statutes isonmeni of between 5 mo	may includ	de l'ines					IZED AGENT	REA		VEAD	0 000
COMMENT AND EXPLANATION OF	the state of the second s	- In the second s	A REAL PROPERTY AND A REAL				OFF	ACCH O	A AGTHOR	10 402111 18	ODE NUM	BEN	YEAR	10 DAY

** These limits are effective October 1, 1995. Until such time monitor and report.

PERMITTEE NAME/ADDRESS (Incl Facility Name/Location if different)	lude	,	NATIONAL P				LIMINATION		(NPDES)				Form	Approved	
NAME PECO ENERG	Y COMPANY			(2-16)				(17-19)						No. 2040-	0004
ADDRESS 2301 Market Street			PA 0051926				002,003,004,005,012,			7 022					
2301 Mark			PERMIT NUMBER				and the second se							oval expires	0-30-88
Philadelphia, PA 19101			PEIG	1	DISCHARGE NUMBER			Revised	3/91						
										-		APPENDI	IX J:		
		teller.			MONI	TORING	PERIOD								
	Gen rating S		YEAR	MO	DAY	1	YEAR	MO	DAY		Add	itional Fac	cilities.		
LOCATION Limerick	Township, N	lontgomery Row	•			TO									
			(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)	NOTE:	Read ins	tructions b	sefore o	completing th	his form.
PARAMETER (32-37)		(3-Card Only) (46-53)	QUANTITY	0% LOAD (34-61))nly) (38-45)	QUALITY (46-		NCENTRATION			NO. EX	FREQUENCY	SAMPLE
		AVERAGE	MAX	IMUM	UNITS	MI	NIMUM	NIMUM AVERAGE (Composites)		MAXIM (Grab		UNITS	(62-63)	ANALYSIS (64-68)	(69-70)
	SAMPLE												1		
C-Biochemical Oxygen	MEASUREMENT	T XXX	XXX			1.11	XXXX				1.4			1975	
Demand (5-day)	PFAMIT				1			Re	Report Report						1 GRAB
	REC JIREMENT	XXX	XXX		XXX		XXX	Annual Avg.		Daily Ma	κ.	MG/L		1/Year	1 COMP.
Chemical Oxygen Demand	SAMPLE		XXX												
	PAEASUREMENT	T XXX			1	1	XXX			1			1.1		
	PERMIT		1.1.1.1.1.1		1.1.1.1			Report		Report					1 GRAB
	REQUIREMENT	XXX	XXX		XXX		XXX	Ana	ual Avg.	Dail- Ma	K. MG/L			1/Year	1 COMP.
Oil and Grease	SAMPLE					1.00									
	MEASUREMENT	r xxx	XXX		-		XXX						_		
	PERMIT	XXX			1000			Report		Report					
	SAMPLE	***	XXX		XXX	-	XXX	Ann	ual Avg.	Daily Ma	K	MG/L		1/Year	1 GRAB
pH	MEASUREMENT	xxx	XXX				XXX	-							
	PERMIT							Re	port	Report					
	REQUIREMENT	XXXX	XXX		XXX		XXXX		uel Avg.		Daily Max. SU			1/Year	1 GRAB
	SAMPLE	1								1			+	17 T Car	1 drind
Total Suspended	MEASUREMENT	XXX	XXX				XXXX								
Solids	PERMIT							Report	port	Report					1 GRAB
	REQUIREMENT	XXX	XXX		XXX	XXX		Annual Avg.		Daily Max.		MG/L		1/Year	1 COMP
	SAMPLE				_										
Total Kjeldahl	MEASUREMENT	XXX	XXX				XXX		_						
Nitrogen	PERMIT	1.						Report		Report					1 GRAB
	REQUIREMENT	XXX	XXX		XXX		XXX	Annual Avg.		Daily Mar	٢,	MG/L		1/Year	1 COMP.
Total Phosphorous	SAMPLE														
	PERMIT	XXX	XXXX		-		XXX								
	REQUIREMENT	XXX	XXX		xxx		and the second se		port	Report					1 GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY UNDER PENALT			DE LAW THAT	HAVE PER	SONALLY	XAMINED	T	Anni	ual Avg.	Daily Max	the second se	MG/L		1/Year	1 COMP.
	AND ON M • OBTA IS TR NIFIC	AM FAMILIAR WITH THE IY INQUIRY OF THOSE IN INING THE INFORMATH UE, ACCURATE AND CO ANT PENALTIES FOR S POSSIBILITY OF FINE A	INFORMATION DIVIDUALS IM ON, I BELIEVE MPLETE. I A BURMITTING F	SUBMITTELY MEDIATELY THE SUBM M AWARE T ALSE INFO	D HEREIN RESPONSI AITTED INF THAT THER RMATION I	AND BASED BLE FOR ORMATION E ARE SIG- NCLHDING					16	LEPHONE			DATE
TYPED OR PRINTE	33 US	C 1319 (Penaltie	e under those s	tatutes may	include fine	s up to	SIGNAT	UREOFP	RINCIPAL	EXECUTIVE	AREA	NUME	BER	YEAR	MO DAY
COMMENTS AND EXPLANATION OF		00 and or maximum impris (Reference all attacho	the second se	een 6 month	is and 5 yea	(S.)	OFFIC	ERORAU	THORIZE	DAGENT	CODE				DAT

EPA Form 3320-1 (Rev. 10-78)

PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (REPLACES EPA FORM T-40 WHICH MAY NOT RE USED)

PAGE 1 OF 2

1.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)		ħ	ATIONAL P				IMINATION		(NPDES)				Form	Approved			
	CAND AND			(2-16)	and the second	ioni oni	(17-19) [002,003,004,005,01]2,022and										
ADDRESS 301 Market S	LABMPANI		PA005			1					023		OMB No. 2040-0004 Approval expires 6-30-88				
Philadelphia,			Provide State State State State	ATT NUMBER	R	1		ARGE NUM	a designed and the second sector of the second sector with the second sector with the second sector of the second sector with the sector with the second sector with the second sector with the second sector with the sector with the second sector with the second sector with the sector with th	Revieed			Approval expires 0-30-88				
Philadelphia,	FA 131MI										APPENDIX J:						
					MONI	TORING	PERIOD				_						
FACILITY Limerick Gen	anoting Ste	ation	YEAR	MO	DAY	T	YEAR	MO	DAY		Additi	onal Fac	ilities				
OCATION Limerick To	which in Mor	tomery FROM				TO											
Limerick III	witcht p. mor	INE CHICK	(20-21)	(22-23)	(24-25)	4	(26-27)	(28-29)	(30-31)	NOTE:	Read instru	uctions b	efore o	ompleting th	is form.		
PARAMETER (32-37)		(3-Card Only) (46-53)	QUANTITY OR LOADI		ING (4-Card On		services and the service of the serv						FREQUENCY	president distant in a supplication. Com-			
		AVERAGE	MAX	IMUM	UNITS	MI	NIMUM	AVERAGE (Composites)		MAXIM (Grab)		UNITS	(62-63)	ANALYSIS	(69-70)		
	SAMPLE		1			1.1.1											
Effluent Guideline	MEASUREMENT	XXX	XXX		1		XXX										
Pollutants	PERMIT	XXX	XXX		XXX		XXX			Report Daily Max		MG/L		1/Year	1 GRAB		
	SAMPLE					-	~~~	Autoa Avy.		Cally Ma	X. MIGIL			1/Teat	TOOMP.		
Iron (Dissolved)	MEASUREMENT	XXX	XXX		1.1.1.1	10.3	XXX	XX Report					1.1		19.524		
	PERMIT				1					Report			-	1 GRAB			
	REQUIREMENT	XXX	XXX		XXX		XXX	Ann	ual Avg.	Daily Max	κ.	MG/L		1/Year	1 COMP.		
											1.1						
													L.				
NAME/TITLE PRINCIPAL EXECUTIVE		TIFY UNDER PENALTY	DF LAW THAT	I HAVE PER	RSONALLY	EXAMINED	1	1			TEL	EPHONE			DATE		
	AND ON M OBTA IS TR NEFIC	AM FAMILIAR WITH THE Y INQUIRY OF THOSE IN INING THE INFORMATI UE, ACCURATE AND CO ANT PENALTIES FOR	INFORMATION IDIVIDUE SIM ON, I BELIEVE OMPLETE, I A SUBMITTING F	SUBMITTE MEDIATELY THE SUBI M AWARE ALSE INFO	D HEREIN RESPONSI MITTED INF THAT THER RMATION	AND BASED BLE FOR ORMATION E ARE SIG-											
TYPED OR PRINTED	POSSIBILITY OF FINE / C 1319 (Penaltie 00 and or maximum impris	es under these	statutes may	include fine	is up to	SIGNAT	URE OF P	RINCIPAL	EXECUTIVE	AREA	NUM	BER	YEAR	MO DAY			

PAGE 2 OF 2

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different) NAME PECO ENERGY COMPANY ADDRESS 2301 Market Street Philadelphia, PA 19101			NATIONAL POLLUTANT DISCHARGE ELI DISCHARGE MONITORIN (2-16)										m Approved	0004
				926	R		006,007,008,009. DISCHARGE NUMBER			Revised	3/91		OMB No. 2040-0004 Approval expires 6-30-88	
											APP	NDIX J:		
					MONI	TORING	PERIOD							
FACILITY Limerick G			YEAR	MO	DAY		YEAR	MO	DAY		Additiona	Facilitie		
LOCATION Limerick	Township, Mon	tgomery. FROM				то		1						
PARAMETER		100.000	(20-21)	(22-23)	(24-25)		(25-27)	(28-29)	(30-31)			ns belo.	completing th	nia form.
(32-37)		(3-Card Only) (46-53)	QUANTITY	(54-61)	ING	(4-Card 0	nly) (38–45)	QUALITY (46-		CENTRATION		NO EX	FREQUENCY OF	SAMPLE
		AVERAGE	MAX	MUM	UNITS	MI	IMUM	AVERAGE (Composites)		MAXIMU (Grab)	IM UN		ANALYSIS	(69-20)
	SAMPLE									(0.00)		102 1	104 001	103-207
C-Biochemical Oxygen	MEASUREMENT	XXX	XXX				XXX	-						
Demand (5-day)	PERMIT				1			Re	eport Report					1 GRAB
	REQUIREMENT	XXX	XXX		XXXX		XXX	Annual Avg.		Daily Max	. MO	AL.	1/Year	1 COMP.
Chemical Oxygen Demand	SAMPLE MEASUREMENT	xxx	XXX				XXX							
	PERMIT	XXX			xxx		XXX Annual Avg.		Report Daily Max	M		1/Year	1 GRAB	
Oil and Grease	SAMPLE MEASUREMENT	XXX	XXX				xxx							TOOMT.
	PERMIT	xxx			xxx		xxx	Report Annual Avg.		Report	Report Daily Max. MG/L		100	
pH	SAMPLE	XXX	xxx xxx				xxx	rannan reg.		Daily Max	C MC	11	1/Year	1 GRAB
	PERMIT	XXX			xxx		xxx	Report Annual Avg.		Report Daily Max. Si		. –	1	
	SAMPLE				1		~~~	Annual Arg.		Daily Max	. 8		1/Year	1 GRAB
Total Suspended	MEASUREMENT	XXX	XXX XXX				XXX							
Solids	PERMIT				1			Report		Report			+	1 GRAB
	REQUIREMENT	XXX			XXX	XXX		Annual Avg.		Daily Max	MO	n	1/Year	1 COMP.
·	SAMPLE		xxx											
Total Kjeldahl	MEASUREMENT	XXX					XXX	1				- L		
Nitrogen	PERMIT	1004						Report		Report				1 GRAB
	SAMPLE	XXX	XXX		XXX		XXX	Annual Avg.		Daily Max	. MO	11	1/Year	1 COMP.
Total Phosphorous	MEASUREMENT	XXX	XXX				XXX							
	PERMIT							Re	eport Report			-		1 GRAB
	REQUIREMENT	XXX	XXX		XXX		XXX	1.11	uai Avg.	Daily Max	MO	A I	1/Year	1 COMP.
NAME/TITLE PRINCIPAL EXECUT	AND AU ON MY • OBTAIL IS TRU NIFICA	TIFY UNDER PENALTY O M FAMILIAR WITH THE I VINQUIRY OF THOSE ININ NING THE INFORMATIO E, ACCURATE AND CO INT PENALTIES FOR S	NFORMATION DIVIDUALS IMM DN, FBELIEVE MPLETE, FAI URMITTING F	SUBMITTELY MEDIATELY THE SUBN M AWARE 1 ALSE INFO	D HEREIN: / RESPONSIE AITTED INFO THAT THERE BMATION IN	AND BASED BLE FOR ORMATION E ARE SIG-					TELEPH	and the second sec	and the second state of th	DATE
TYPED OR PRINTE	OSSIBILITY OF FINE A	ND IMPRISON s under these s	MENT SEE tatutes may	IN USC 100	01 AND	SIGNAT		RINCIPAL I	AGENT	AREA P	UMBER	YEAR	MO DAY	

EPA Form 3320-1 (Rev. 10-79)

PREVIOUS EDITION TO BE USED UNTIL BUPPLY IS EXHAUSTED (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

PAGE 1 2

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different) NAME PECO ENERGY COMPANY												rm Approved 4B No. 2040-0004						
ADDRESS 2301 Marke Philadelphi	et Street Ia, PA 19101			0051926 PERMIT NUMBER 006,007,008 DISCHARGE NUM						Revised	3/91	Approval expires 6-30-88						
			APPENDIX J:															
CACHITY Limoniak (ACILITY Limerick Generating Station				MONITORING PERIOD													
LOCATION Limerick				MO	DAY	то	YEAR	MO	DAY			onal Fac						
PARAMETER (32-37)		(3-Card Only) (46-53)	(20-21) QUANTITY	(22-23) OR LOAD (34-61)	(24-25) ING	(4-Card O	(26-27) nly) (38-45)	(28-29) QUALITY (46	(30-31) OR CON	CENTRATION			Carlos and the second se	FREQUENCY OF	provide the state of the state			
		AVERAGE	the second se		and the second se		IIMUM AVERAGE (Composites)		the second	(34-61) MAXIMUM UNITS (Grab)			ANAL YSIS	(69-70)				
Effluent Guideline	SAMPLE MEASUREMENT	XXX	XXX		,		XXX						(62-63)		(07-70)			
Pollutants	PERMIT	xxx	XXX		xxx		xxx	Report XX Annual Avg.		Report Daily Max		MG/L		1/Year	1 GRAB 1 COMP			
Iron (Dissolved)	SAMPLE	XXX	XXX				XXX											
	PERMIT	XXX	xxx	XXX			XXX Annual Avg.		Report Daily May		MG/L		1/Year	1 GRAB 1 COMP.				
					-								-					
					-													
NAME/TITLE PRINCIPAL EXECUT		I TIFY UNDER PENALTY	OF LAW THAT	I HAVE PE	RSONALLY	XAMINED		land and			TELF	PHONE			ATE			
	AND A ON MY OBTAI IS TRI NIFICA	M FAMILIAR WITH THE INQUIRY OF THOSE I NING THE INFORMAT IE, ACCURATE AND C	EINFORMATION NDIVIDUALS IMI TION, I BELIEVE COMPLETE, I A SUBMITTING E	SUBMITTE MEDIATELY THE SUBI M AWARE	D HEREIN RESPONSI MITTED INF THAT THER	AND BASED BLE FOR ORMATION E ARE SIG-							64					
TYPED OR PRINT	ED \$10,00	OSSIBILITY OF FINE 1319 (Penalt 0 and or maximum impr (Reference all attach	ties under these s risonment of betw	100111000 00100	a construction from the	P AND DOL	SIGNAT	URE OF P	RINCIPAL	EXECUTIVE DAGENT	AREA CODE	NUME	BER	YEAR	MO DAY			

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED

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

.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF WATER QUALITY MANAGEMENT

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

GENERAL PERMIT FOR DISCHARGES OF STORM WATER FROM INDUSTRIAL ACTIVITIES PAG-3

NPDES PERMIT NO: PA PA 0051926

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 <u>et seq</u>. (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 <u>et seq</u>., the Department of Environmental Resources hereby authorizes:

INSERT FACILITY NAME AND ADDRESS BELOW

2301 Market Street Philadelphia, PA 19101

to discharge storm water to (NAME RECEIVING WATER(S) BELOW):

Schuylkill River and Possum Hollow Run

subject to the terms and criteria contained herein, for the discharge of storm water from point sources composed entirely of storm water associated, in whole or in part, with industrial activity, as defined in this General Permit, to surface waters of the Commonwealth, including to municipal separate storm sewers and non-municipal separate storm sewers. All monitoring and reporting requirements specified in Appendix <u>J</u> to this permit apply to this discharge.

This permit authorizes certain new and existing (those industrial activities discharging storm water as of October 1, 1992) discharges of storm water associated with industrial activity to receiving waters in accordance with effluent limitations, including the development and implementation of Best Management Practices (BMPs) monitoring requirements, and other conditions set forth in Parts A, B, and C hereof. Storm water discharges associated with industrial activity from facilities which have an NPDES permit for a discharge other than storm water and that are not otherwise covered by an NPDES permit may be covered by this general permit until the NPDES permit for the non-storm water discharge has been reissued.

Discharges of storm water associated with an industrial activity must submit a Notice of Intent (NOI) in accordance with the requirements of this permit, using an NOI form provided by the Department (or photocopy thereof), to be authorized to discharge under this general permit.

Owners or operators of existing facilities (those facilities with storm water discharges associated with industrial activity as of October 1, 1992) which meet the eligibility requirements of this general permit and submit a timely administratively complete and acceptable NOI to the Department are authorized to discharge storm water associated with industrial activity to surface waters of the Commonwealth under the terms and conditions of this permit, unless notified by the Department that the discharge must cease. Newly proposed discharges of storm water associated with industrial activity which are eligible for coverage under this general permit must submit an administratively complete and acceptable NOI at least 30 days prior to planning commencement of the industrial activity which will have a storm water discharge. If, after the 30 days has expired, the Department has not notified the activity owner or operator seeking approval that the NOI, or any portion thereof, is disapproved, the activity may be commenced, provided all other applicable NPDES and Water Quality Management permits for the facility have been obtained.

The Department may deny coverage under this permit and require submittal of an application for an individual NPDES permit based on a review of the NOI or other information.

NOTICE OF INTENT REQUIREMENTS

Deadlines for NOI Submittal

Existing discharges of storm water associated with an industrial activity which are eligible for coverage under the general permit must file either an administratively complete and acceptable NOI or the Department's simplified NPDES application as soon as possible after November 7, 1992 (if an administratively complete and acceptable NOI which meets the requirements of this general permit has not been submitted before this date). It should be noted that facilities with storm water discharges associated with an industrial activity operating after October 1, 1992 without NPDES permit coverage are unlawful and may be subject to enforcement action and third party litigation exposure. Newly proposed discharges of storm water associated with an industrial activity which are eligible for coverage under this general permit must submit an administratively complete and acceptable NOI 30 days prior to commencing any discharge.

<u>Contents of Notice of Intent</u>. The Notice of Intent shall be signed in accordance with the signatory requirements of this permit and shall include the NOI information specified on the NOI Form and in the Instructions for completing the Form. The NOI Form and Instructions are attached to this general permit.

Where to Submit. Facilities which discharge storm water associated with industrial activity must use an NOI form provided by the Department (or photocopy thereof). NOIs must be signed in accordance with the signatory requirements of this permit. NOIs are to be submitted to the appropriate regional office of the Department.

The following storm water discharges associated with an industrial activity are <u>not</u> covered by this permit:

a. Discharges which contain hazardous pollutants, toxics, or any other substance which - because of its quantity, concentration, or physical, chemical, or infectious characteristics - may cause or contribute to an increase in mortality or morbidity in either an individual or the total population, or pose a substantial present or future hazard to human health or the environment when discharged into navigable waters;

b. Discharges which individually or cumulatively have the potential to cause significant adverse environmental impact;

c. Discharges to waters classified as "Special Protection" under Chapter 93 of the Department's Rules and Regulations;

d. Discharges which are not, or will not be in compliance with any of the terms or conditions of the general permit;

e. Discharges from persons with a significant history of noncompliance with prior permits issued by the Department;

f. Discharges which do not, or will not, result in compliance with applicable effluent limitations or water quality standards;

g. Discharges from industrial activities which the Department determines require an individual NPDES permit to ensure

compliance with the Clean Water Act, the Clean Streams Law, and rules and regulations promulgated thereto; or where a change has occurred in the availability of demonstrated technology or practices for the control or abatement of pollutants applicable to the point source;

- h. Discharges associated with an industrial activity that are mixed with sources of non-storm water, other than non-storm water discharges that are:
 - (i) in compliance with a different NPDES permit; or

(ii) identified by and in compliance with Part C.1.a (authorized non-storm water discharges) of this permit.

- Discharges associated with an industrial activity which are subject to an existing effluent limitation guideline addressing storm water (or a combination of storm water and process)¹;
- j. Discharges associated with an industrial activity that are subject to an existing NPDES individual or general permit; are located at a facility where an NPDES permit has been terminated or denied; or which are issued a permit in accordance with paragraph B.2 (requirements for individual permits) of this permit. Such discharges may be authorized under this permit after an existing permit expires provided the existing permit did not establish numeric effluent limitations for such discharges;

k. Discharges associated with an industrial activity from construction sites.

For the purpose of this permit, the following effluent limitation guidelines address storm water (or 1 combination of storm water and process water): cement manufacturing (40 C.F.R. 411); feedlots (40 C.F.R. 412); fertilizer manufacturing (40 C.F.R. 418); petroleum refining (40 C.F.R. 419); phosphate manufacturing (40 C.F.R. 422); steam electric (40 C.F.R. 423); coal mining (40 C.F.R. 422); steam electric (40 C.F.R. 423); coal mining (40 C.F.R. 434); mineral mining and processing (40 C.F.R. 436); ore mining and dressing (40 C.F.R. 440); and asphalt emulsion (40 C.F.R. 443 Subpart A). This general permit may authorize storm water discharges associated with an industrial activity which are not subject to an effluent limitation guideline even where a different storm water discharge at the facility is subject to an effluent limitation guideline.

- Discharges associated with an industrial activity that would adversely affect a listed endangered or threatened species or its critical habitat; and
- m. Discharges associated with industrial activity from inactive mining, inactive landfills, or inactive oil and gas operations where an operator cannot be identified.

Owners or operators of storm water discharges associated with an industrial activity must submit a Notice of Intent (NOI) to the Department, in the format specified, to be covered under this general permit prior to commencing any discharge. The authority granted by this permit is subject to the following conditions:

The Department may require any person authorized by this 1. permit to apply for and obtain an individual NPDES permit. Any interested person may petition the Department to take action under this paragraph. The Department may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. The applicant shall submit the individual permit application within 90 days of receipt of notice. This notice shall include the following: (1) a brief statement of the reasons for this decision, (2) an application form, (3) a statement setting a deadline for the owner or operator to file the application, and (4) a statement that on the effective date of the individual NPDES permit, as it applies to the individual permittee, coverage under this general permit shall automatically terminate.

The Department may grant additional time to submit the application upon written request from the applicant. If an owner or operator fails to submit, in a timely manner, an individual NPDES permit application required by the Department under this paragraph, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of the day specified for application submittal.

2. Any owner or operator authorized by this general permit may request to be excluded from the coverage of this general permit by applying for an individual permit. The owner or operator shall submit an individual application on approved Pennsylvania individual NPDES application forms, with reasons supporting the request, to the Department. The request shall be granted by issuance of an individual permit if the reasons cited by the owner or operator are adequate to support the request.

- 3. When an individual NPDES permit is issued to an owner or operator otherwise subject to this general permit, the applicability of this general permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit. When an individual NPDES permit is denied to an owner or operator otherwise subject to this general permit, the owner or operator can continue discharging if all eligibility requirements under the general permit are met. If the owner or operator does not meet the eligibility requirements of the general permit, or is otherwise prohibited from general permit coverage, coverage under the general permit is automatically terminated on the date of such denial, unless otherwise specified by the Department.
- 4.a. Approval of Coverage under the General Permit Application for renewal of coverage under this general permit must be submitted to the Department at least 180 days prior to the expiration date indicated below (unless permission has been granted by the Department for submission at a later date). A request for renewal of coverage is to be made using the "Notice of Intent for Coverage Under the General Storm Water Permit for Discharges Associated with Industrial Activities." In the event that a timely and complete application for renewal of coverage has been submitted and the Department is unable, through no fault of the permittee, to reissue the approval for coverage before midnight November 6, 1997, the terms and conditions of the approval will be automatically continued and will remain fully effective and enforceable pending the issuance or denial of the renewal of coverage, provided the permittee is, and has been, operating in compliance with the terms and conditions of the permit.
 - b. <u>Issuance or Reissuance of the General Permit</u> This general permit expires on midnight November 6, 1997. Persons with newly proposed discharges seeking coverage under this permit must submit an NOI to the Department 30 days prior to commencement of the activity resulting in the discharge but not later than August 6, 1997. Persons who submit a timely renewal application prior to August 6, 1997 may continue to discharge pursuant to the terms and conditions of the permit until the Department has reissued the permit, at which time the discharger must meet the terms and conditions of the newly issued permit or cease the discharge. The Department will publish a notice in the <u>Pennsylvania Bulletin</u> of the draft general permit, and after a comment period, notice of the final reissued general permit will be published in the <u>Bulletin</u>.

- 5. This permit may be modified or revoked and re-issued by the Department if monitoring data indicates one or more toxic pollutants are, or are expected to be, discharged by the permitted activity. If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with an industrial activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual NPDES permit.
- No condition of this permit shall release the permittee from any responsibility or requirements under other federal or Pennsylvania environmental statutes or regulations or local ordinances.

This general permit is issued <u>November 7, 1992</u> and shall expire at midnight, <u>November 6, 1997</u>, unless reissued on or before this date by the Department.

PERMIT ISSUED

BYW DIRECTOR BUREAU OF WATER QUALITY MANAGEMENT

PART A

EFFLUENT LIMITATIONS, SELF-MONITORING AND REPORTING REQUIREMENTS

1. EFFLUENT LIMITATIONS

This permit establishes effluent limitations, in the form of implemented Best Management Practices (BMPs) such as Preparedness, Prevention, and Contingency (PPC) Plans and Erosion and Sedimentation Control (E & S) Plans which restrict the rates and quantities of pollutants discharged into surface waters of the Commonwealth.

All storm water discharges associated with industrial activities must comply with any applicable effluent limitations established in 25 <u>Pa</u>. <u>Code</u> Chapters 91-97, 101, 102, and 105.

In addition, coal pile runoff is subject to an additional specific numeric effluent limit of 50 mg/l for Total Suspended Solids (TSS), unless the coal pile is itself, or is on the site of, a "coal mining activity" as defined in 25 Pa. Code § 86.1, in which case the effluent limit which has been established pursuant to 25 Pa. Code Chapters 86-90 is applicable. Any discharge which contains coal pile runoff shall not exceed a maximum concentration at any time of 50 mg/l total suspended solids. Coal pile runoff shall not be diluted with storm water or other flows to meet these limitations. The pH of such discharges shall be within the range of 6.0 to 9.0 standard units. Any untreated overflow from facilities designed, constructed, and operated to treat the volume of coal pile runoff which is associated with a 10-year, 24-hour rainfall event shall not be subject to the 50 mg/l total suspended solids limitation, unless other requirements are applicable. For existing discharges, failure to demonstrate compliance with these limitations as expeditiously as practicable, but in no case later than three years after the date of issuance of this permit, will constitute a violation of this permit. All new discharges of coal pile runoff must meet these limitations upon NOI approval.

Further, in addition to meeting other effluent limitations (including development and implementation of BMPs), discharges of storm water from hardwood lumber manufacturers and others who handle hardwood residue must develop and implement the BMPs specified in the manual titled " Using Best Management Practices To Prevent And Control Pollution From Hardwood Residue Storage Sites", unless otherwise directed by the Department. For all storm water discharges associated with an industrial activity covered under this permit, a water quality based effluent limitation may be required under applicable state and federal law when necessary to ensure that the water quality standards of the receiving water are attained. Discharges of storm water associated with an industrial activity shall not result in a violation of the water quality criteria prescribed in 25 <u>Pa</u>. <u>Code</u> Chapters 16 and 93 for the various designated uses of the receiving stream.

2. MONITORING REQUIREMENTS

This permit establishes monitoring requirements for certain categories of industrial activities as set forth below. The Department reserves the right to enter onto land to conduct, or to require additional monitoring where necessary in appropriate circumstances, such as where a danger of water pollution is present, or water pollution is suspected to be occurring from an industrial activity subject to this general permit.

a. Limitations on Monitoring Requirements

(1) Except as required by paragraph A.2.b., only those facilities with activities specifically identified in Parts A.2.b (semi-annual monitoring requirements) and A.2.c (annual monitoring requirements) of this permit are required to conduct sampling of their storm water discharges. All facilities shall provide an annual certification in accordance with section C.3.c (Comprehensive Site Compliance Evaluations) of this permit and the federal storm water program implementation regulations set forth at 40 C.F.R. Part 122.

(2) The Department may provide written notice to any facility otherwise exempt from the sampling requirements of Parts A.2.b. (semi-annual monitoring requirements) or A.2.c. (annual monitoring requirements), that it shall conduct annual discharge sampling.

b. Semi-Annual Monitoring Requirements

During the period beginning on the effective date and lasting through the expiration date of this permit, permittees with facilities identified in Parts A.2.b.(1) though (6) must monitor those storm water discharges identified below at least semi-annually (every six months) except as provided in A.2.g (sampling waiver) and A.2.e.(5) (sampling requirements). Permittees with facilities identified in Parts A.2.b.(1) through (6) (below) must report in accordance with Part A.3. (reporting and recordkeeping) and summarize the data when applying for a permit renewal. Monitoring records must be made available to interested persons upon request.

(1) Section 313 of SARA Title III Facilities. In addition to any monitoring required by Parts A.2.b through f, facilities with storm water discharges associated with an industrial activity that are subject to requirements to report releases into the environment under Section 313 of SARA Title III, 42 U.S.C. §11023, for chemicals which are classified as Section 313 water priority chemicals are required to monitor storm water that is discharged from the facility that comes into contact with any equipment, tank, container or other vessel or area used for storage of a Section 313 water priority chemical, or located at a truck or rail car loading or unloading area where a Section 313 water priority chemical is handled for the parameters listed in <u>Appendix A</u> of this permit.

(2) Primary Metal Industries. Facilities with storm water discharges associated with industrial activity classified as Standard Industrial Classification (SIC) 33 (Primary Metal Industry) are required to monitor such storm water that is discharged from the facility for parameters listed in <u>Appendix B</u> of this permit.

(3) Land Disposal Units/Incinerators/BIFs. Facilities with storm water discharges associated with industrial activity from any active or inactive landfill, land application site or open dump without a stabilized final cover that has received any industrial wastes (other than wastes from a construction site); and incinerators (including Boilers and Industrial Furnaces (BIFs)) that burn hazardous waste and operate under interim status or a permit under Subtitle C of RCRA, are required to monitor storm water that is discharged from the facility for the parameters listed in <u>Appendix C</u> of this permit.

(4) Wood Treatment. Facilities with storm water discharges associated with industrial activity from areas that are used for wood treatment, wood surface application or storage of treated or surface protected wood at any wood preserving or wood surface facilities are required to monitor such storm water that is discharged from the facility for the parameters listed in <u>Appendix</u> <u>D</u> of this permit.

(5) **Coal Pile Runoff.** Facilities with storm water discharges associated with industrial activity from coal pile runoff are required to monitor such storm water that is discharged from the facility for the parameters listed in <u>Appendix E</u> of this permit.

(6) Battery Reclaimers. Facilities with storm water discharges associated with industrial activity from areas used for storage of lead acid batteries, reclamation products, or waste products, and areas used for lead acid battery reclamation (including material handling activities) at facilities that reclaim lead acid batteries are required to monitor such storm water that is discharged from the facility for the parameters listed in <u>Appendix F</u> of this permit.

c. Annual Monitoring Requirements

During the period beginning on the effective date and lasting through the expiration date of this permit, permittees with facilities identified in Parts A.2.c.(1) through (3) (below) must monitor those storm water discharges identified below at least annually (1 time per year) <u>except</u> as provided in A.2.g. (sampling waiver), and A.2.e.(5) (sampling requirements). However, such permittees must retain monitoring results in accordance with Part A.3.f. (retention of records) and summarize the data when applying for permit renewal. Monitoring records shall be made available to interested persons upon request.

(1) Airports. At airports with over 50,000 flight operations per year, facilities with storm water discharges associated with industrial activity from areas where aircraft or airport deicing operations occur (including runways, taxiways, ramps, and dedicated aircraft deicing stations) are required to monitor such storm water that is discharged from the facility when deicing activities are occurring for the parameters listed in <u>Appendix G</u> of this permit.

(2) Coal-Fired Steam Electric Facilities. Facilities with storm water discharges associated with industrial activity from coal handling sites at coal fired steam electric power generating facilities (other than discharges in whole or in part from coal piles subject to storm water effluent guidelines at 40 C.F.R. 423 - which are not eligible for coverage under this permit) are required to monitor such storm water that is discharged from the facility for the parameters listed in <u>Appendix H</u> of this permit.

(3) Animal Handling/Moat Packing. Facilities with storm water discharges associated with industrial activity from animal handling areas, manure management (or storage) areas, and production waste management (or storage) areas that are exposed to precipitation at meat packing plants, poultry packing plants, and facilities that manufacture animal fats and oils, are required to monitor such storm water that is discharged from the facility for the parameters listed in <u>Appendix I</u> of this permit.

d. Annual Inspections

(1) Additional Facilities. Facilities identified in Parts A.2.d.(1)(i) through (vii) (below), and any other facilities not subject to <u>Appendices A-I</u>, with storm water discharges associated with industrial activity, may conduct annual inspections of the facility in lieu of monitoring for the parameters listed in <u>Appendix J</u> of this permit. Permittees with facilities identified in Part A.2.d who conduct monitoring are not required to submit monitoring results, unless required in writing by the Department. Facilities eligible for annual inspections in lieu of monitoring include those with stormwater discharges which:

(i) come in contact with storage piles for solid chemicals used as raw materials at facilities classified as SIC 30 (Rubber and Miscellaneous Plastics Products) or SIC 28 (Chemicals and Allied Products);

(ii) are from those areas at automobile yards and other automotive dismantlers and recyclers with any of the following: (A) over 250 auto/truck bodies with drivelines ' (engine, transmission, axles, and wheels), 250 drivelines, or any combination thereof (in whole or in parts) are exposed to storm water; (B) over 500 auto/truck units (bodies with or without drivelines in whole or in parts) are stored exposed to storm water; or (C) over 100 units per year are dismantled and drainage or storage of automotive fluids occurs in areas exposed to storm water;

 (iii) come into contact with lime storage piles that are exposed to storm water at lime manufacturing facilities;
 (iv) are from oil handling sites at oil fired steam

electric power generating facilities;

(v) are from cement manufacturing facilities and cement kilns (other than discharges in whole or in part from material storage piles subject to storm water effluent guidelines at 40 C.F.R. 411 - which are not eligible for coverage under this permit);

(vi) are from ready-mixed concrete facilities; or

(vii) are from ship building and repairing facilities.

(2) Where an annual inspection is conducted in lieu of monitoring, it shall include an examination of sediment present in the outfalls associated with the facility subject to this permit, including identification of substances present in the sediment. Any deficiencies found during the annual inspection shall be corrected and the PPC Plan updated immediately. A complete documentation on the inspection and any follow up corrective measures shall be kept on site and submitted to the Department upon request.

e. Sampling Requirements

(1) 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. For all other discharges, data shall be reported for both a grab sample and a composite sample.

(2) 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.

(3) 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.

(4) Composite samples shall be either flow or time-weighted. One of the following sampling methods shall be used:

(a) A combination of at least three grab samples taken in each hour for the first three hours of the discharge, with each sample being separated by a minimum period of 15 minutes; or

(b) Automatic continuous sampling.

(5) 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 size of the drainage area (in square feet) and 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; and (6) Grab samples must be collected and analyzed for the determination of pH, cyanide, and oil and grease.

1. Additional Information

For each outfall, the permittee shall submit the additional information requested in the attached Department form entitled, "Additional Information for the Reporting of Storm Water Discharge Monitoring." This additional information shall be submitted with the Discharge, Monitoring Report (DMR) (see A.3, below).

g. 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.

h. Toxicity Testing

The Department may require the Permittee to monitor for acute whole effluent toxicity in accordance with Department protocols. The Department will provide such protocols upon request.

3. REPORTING AND RECORDREEPING

a. Failure to Certify

Any facility that is unable to provide the certification required under Part C.3.a.(3) (testing for non-storm discharges), must notify the Department within 180 days of the effective date of this general permit. If the failure to certify is caused by the inability to perform adequate tests or evaluations, such notification shall describe: the procedure for any test conducted for the presence of non-storm water discharges; the results of such test or other relevant observations; potential sources of stormwater discharges to the storm sewer; and why adequate tests for such storm sewers were not feasible. Non-storm water discharges to surface waters of the Commonwealth which are not authorized by an NPDES permit or which are not exempt from the storm water permitting requirement are unlawful, and must be terminated or dischargers must submit appropriate NPDES permit application forms.

b. Reporting of Monitoring Results

Monitoring results shall be summarized on a Discharge Monitoring Report (DMR) Form and the Department's "Additional Information for the Reporting of Storm Water Monitoring Form." (The original forms are provided in the Notice of Intent package for use as a master. Make copies of them and use the copies to file the required report.) A signed copy of the DMR Form and all other reports required herein, shall be submitted to the appropriate regional office of the Bureau of Water Quality Management.

Permittees shall report in accordance with the following:

(1) Permittees required to conduct sampling pursuant to Parts A.2.b.(1), A.2.b.(2), and A.2.b.(3) shall submit monitoring results on a semi-annual basis, postmarked no later than July 31st and January 31st of each year. The report shall contain results from the previous 6 months. A separate DMR form is required for each event monitored.

(2) Permittees required to conduct sampling pursuant to Parts A.2.b.(4), A.2.b.(5), and A.2.b.(6) shall submit monitoring results on a semi-annual basis, postmarked no later than April 30th, and October 31st of each year. The report shall contain results from the previous 6 months. A separate DMR form is required for each event monitored.

(3) Permittees with facilities identified in Part A.2.c., and those facilities in A.2.d. who conduct monitoring, are not required to submit monitoring results, unless required in writing by the Director, or when applying for permit renewal.

(4) In addition to filing copies of DMRs in accordance with A.3.b.(1)-(3), facilities with at least one storm water discharge associated with industrial activity through a large or medium municipal separate storm sewer system (serving a population of 100,000 or more) must submit signed copies of DMRs to the operator of the municipal separate storm sewer system in accordance with the dates required in accordance with A.3.b.(1)-(3).

c. Non-Compliance Reporting

(1) Required Reporting. The permittee shall report noncompliance to the Department in accordance with the following:

(a) 24-Hour Oral Reporting - the permittee shall give at least a 24-hour advanced notice to the Department of any planned changes to the permitted activity or facility that may result in non-compliance with permit requirements. The permittee shall also report non-compliance with any term or condition of this permit, and any statute, rule, or regulation, to the Department within 24 hours of becoming aware of the non-compliance.

(b) Follow-up Written Reporting - where the permittee orally reports the information in Part A.3.c within the previously mentioned 24-hour time period, a written submission outlining the reported information must be completed, kept on file, and submitted to the Department upon request.

(c) Non-compliance reporting pursuant to A.3.c.(1).(a)-(b) shall not excuse a person from <u>immediate</u> notification to the Department of incidents causing or threatening pollution pursuant to 25 <u>Pa</u>. <u>Code</u> 101.2(a).

(2) Required Information. The reports and notifications required in Part A.3.c(1) above shall contain the following information:

(a) A description of the discharge and cause of non-compliance;

(b) The period of non-compliance, including exact dates and times and/or the anticipated time when the discharge will return to compliance; and

(c) Steps being taken to reduce, eliminate, and prevent recurrence of the non-complying discharge.

d. Test Procedures

Monitoring must be conducted according to test procedures approved under 40 C.F.R. Part 136, unless other test procedures have been specified in this permit or have been approved by the Department in writing.

e. Recording of Results

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

 The date, exact place, and time of sampling or measurements;

(2) The duration (in hours) of the storm event(s) sampled;

(3) Rainfall measurements or estimates (in inches) of the storm event which generated the sampled runoff;

(4) The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch) rainfall storm event;

(5) An estimate of the total volume (in gallons) of the discharge sampled;

(6) The initials or name(s) of the individual(s) who performed the sampling or measurements;

(7) The date(s) analyses were performed;

(8) The time(s) analyses were initiated;

(9) The initials or name(s) of the individual(s) who performed the analyses;

(10) References and written procedures, when available, for the analytical techniques or methods used; and

(11) The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

f. Retention of Reco.ds

(1) The permittee shall retain the PPC plan developed in accordance with Part C.3 (storm water PPC Plans) of this permit until at loss one year after coverage under this permit terminates. The permittee shall retain all records of all monitoring information, copies of all reports required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, until at least one year after coverage under this permit terminates. In addition, the permittee shall retain on site, at all times, a complete copy of the NOI, this permit, and any authorizations received from the Department pursuant to this permit, until at least one year after coverage under this permit, until at least one year after coverage under this permit terminates. This period may be explicitly modified by alternative provisions of this permit (see paragraph A.3.f.(2) of this permit) or extended by request of the Department at any time. (2) For discharges subject to sampling requirements pursuant to Part A.2, in addition to the requirements of paragraph A.3.f(1) (above), permittees are required to retain for a six-year period from the date of sample collection or for the term of this permit, whichever is greater, records of all monitoring information collected during the term of this permit. Permittees must submit such monitoring results to the Director upon the request of che Director, and submit a summary of such result as part of permit renewal requirements in accordance with Condition 4 of this .

PART B

STANDARD CONDITIONS

1. MANAGEMENT REQUIREMENTS

a. <u>Permit Modification</u>, Termination, or Revocation and Reissuance

(1) This permit may be modified, suspended, revoked and reissued, or terminated during its term for any of the causes specified in 25 Pa. Code Chapter 92.

The Department may modify, revoke, suspend, or terminate previously issued coverage under this general NPDES permit, and require the storm water discharger to apply for and obtain an individual NPDES permit in accordance with 25 <u>Pa</u>. <u>Code</u> Section 92.83.

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

(3) Toxic Pollutants.

(a) Notwithstanding the above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Clean Water Act (33 U.S.C. §1317(a)) for a toxic pollutant that is present in the discharge, and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, then this permit shall be modified or revoked and reissued by the Department to conform with the toxic effluent standard or prohibition and the permittee so notified.

(b) In the absence of a Departmental action to modify or to revoke and reissue this permit, any toxic effluent standard or prohibition established under Section 307(a) of the Clean Water Act (33 U.S.C. §1317(a)) is considered to be effective and enforceable against the permittee.

(4) Permit modification or revocation will be conducted according to 25 Pa. Code Chapter 92.

b. Duty to Provide Information

(1) The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or coverage approved under 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) When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the Department, the permittee shall promptly submit such facts or information.

(4) The permittee shall give advance notice to the Department of any planned physical alterations or additions to the permitted facility which could, in any way, substantially affect the guality and/or quantity of storm water discharged from the facility.

c. Signatory Requirements

All Notices of Intent, Preparedness, Prevention and Contingency Plans, reports, certifications or information either submitted to the Department or the operator of a large or medium municipal separate storm sewer system, or that this permit requires be maintained by the permittee, shall be signed.

(1) All Notices of Intent shall be signed as follows:

(a) For a corporation: by a responsible corporate officer. For the purpose of this part, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25,000,000 (in second-quarter 1980 dollars) if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

(b) For a partnership or sole proprietorship. by a general partner or the proprietor, respectively; or

(c) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this part, a principal executive officer of a Federal agency includes (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

(2) All reports required by the permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person.

A person is a duly authorized representative only if:

(a) The authorization is made in writing by a person described above and submitted to the Department with the reports.

(b) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).

(3) Changes in Authorization. If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part B.1.c must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.

d. Transfer of Ownership or Control

(1) This permit is not transferable to any person except after notice to the Department.

(a) In the event of any pending change in control or ownership of facilities from which the authorize discharges emanate, the permittee shall notify the Department by letter of such pending change at least 30 days prior to the change in ownership or control.

(b) The letter shall be accompanied by the Notice of Intent and a written agreement between the existing permittee and the new owner or operator stating that the existing permittee shall be liable for violations of the permit up to and until the date of coverage transfer and that the new owner or operator shall be liable for permit violations under the permit from that date on. (c) After receipt of the previously mentioned documentation, the Department shall notify the existing permittee and the new owner or controller of its decision concerning approval of the transfer. Such requests shall be deemed approved unless the Department notifies the applicant otherwise within 30 days.

(2) The Department may require the new owner or operator to apply for and obtain an individual NPDES permit, as stated in the cover sheet of this permit.

e. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters or drinking water shall be managed and disposed of in accordance with the requirements of the Solid Waste Management Act, 35 P.S. §6018.101, et seg., and in a manner such as to prevent any pollutant from such materials from adversely affecting the environment.

f. Facilities Construction, Operation, and Maintenance

The permittee shall design and build and, at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), including Best Management Practices (BMPs) such as PPC Plans, E & S Plans, and any other storm water pollution prevention or management plans, which are installed or used by the permittee to achieve compliance with the conditions of this permit. BMPs shall be designed, implemented, and maintained to minimize or eliminate storm water runoff. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

g. Adverse Impact

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

h. Reduction, Loss, or Failure of the Treatment Facilities

Upon reduction, loss or failure of the treatment facilities, in order to maintain compliance with its permit, the permittee shall control production and all discharges until either the facility is restored or an alterative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power for the treatment facility is reduced, lost, or failed.

i. Termination of Coverage

(1) Notice of Termination. Where all storm water discharges associated with industrial activity that are authorized by this permit are eliminated, the operator of the facility may submit a Notice of Termination that is signed in accordance with Part B.1.c. (signatory requirements) of this permit. The Notice of Termination shall include the following information:

(a) Name, mailing address, and location of the facility for which the notification is submitted. Where a mailing address for the site is not available, the location can be described in terms of the latitude and longitude of the facility to the nearest 15 seconds that the facility is located in;

(b) Up to four 4-digit SIC codes that best represent the principal products or activities provided by the facility;

(c) The operator's name, address, telephone number, ownership status and status as Federal, State, private, public or other entity;

(d) The NPDES permit for the storm water discharge associated with industrial activity identified by the Notice of Termination; and

(e) The following certification signed in accordance with Part B.1.c. (signatory requirements) of this permit:

"I certify under penalty of law that all storm water discharges associated with industrial activity from the identified facility that are authorized by a NPDES general permit have been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with industrial activity under this general permit, and that discharging pollutants in stormwater associated with industrial activity to surface waters of the Commonwealth is unlawful under the Clean Water Act and Clean Streams Law where the discharge is not authorized by an NPDES permit."

(2) Addresses. All Notices of Termination are to be sent to the appropriate Department Regional Office.

2. RESPONSIBILITIES

a. Duty to Comply

The permittee must comply with all terms and conditions of this permit. Any permit non-compliance constitutes a violation of the Pennsylvania Clean Streams Law and the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit or permit renewal.

b. Penalties for Violations of Permit Conditions

(1) Criminal.

(a) Negligent Violations. The CWA provides that any person who negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both. In addition, Section 602 of the Clean Streams Law provides criminal penalties for violations of permit conditions.

(b) Knowing Violations. The CWA provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than 3 years, or both. In addition, Section 602 of the Clean Streams Law provides criminal penalties for violations of permit conditions.

(c) Knowing Endangerment. The CWA provides that any per on who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than \$250,000, or by imprisonment for not more than 15 year, or both. In addition, Section 602 of the Clean Streams Law provides criminal penalties for violations of permit conditions.

(d) False Statement. The Clean Water Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years, or by both. If a conviction is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than \$20,000 par day of violation, or by imprisonment of not more than 4 years, or by both. (See Section 309(c)(4) of the Clean Water Act). In addition, the provisions of the Pennsylvania Crimes Code relating to False Swearing and Unsworn Falsification provide criminal sanctions for such actions. See 18 Pa. C.S. \$\$4903-4904.

(2) Civil Penalties. The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed \$25,000 per day for each violation. In addition, Section 605 of the Pennsylvania Clean Streams Law provides for penalties up to \$10,000 a day for violations of permit conditions, for each separate offense.

(3) Administrative Penalties. The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows:

(a) Class I penalty. Not to exceed \$10,000 per violation nor shall the maximum amount exceed \$25,000.

(b) Class II penalty. Not to exceed \$10,000 per day for each day during which the violation continues nor shall the maximum amount exceed \$125,000.

c. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a 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.

d. Penalties and Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the CWA (33 U.S.C. \$1321) or Section 106 of CERCLA.

e. Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

f. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to a her circumstances, and the remainder of this permit shall not we affected thereby.

g. Other Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

h. Right of Entry

Pursuant to Sections 5(b) and 305 of the Pennsylvania Clean Streams Law (35 P.S. §§691.1(b) and 691.305) and 25 <u>Pa</u>. <u>Code</u> Chapter 92, and §1917-A of the Administrative Code, the permittee shall allow the head of the Department, the EPA Regional Administrator, and/or an authorized representative of EPA, DER, or, in the case of a facility which discharges to a municipal separate storm sewer, an authorized representative of the municipal operator or the separate storm sewer receiving the discharge, upon the presentation of credentials and other documents, as may be required by law, to:

(1) Enter upon the permittee's premises where a regulated facility or activity is loc and or conducted or where records must be kept under the conditions of this permit;

(2) Have access to and copy at reasonable simes, any records that must be kept under the terms and conditions of this permit;

(3) Inspect any facilities or equipment (including monitoring and control equipment); and

(4) Sample any discharge of storm water.

i. Penalties for Falsification of Reports

Section 309(c)(4) of the Clean Water Act provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or by both. In addition, criminal sanctions are set forth for false swearing and unsworn falsification at 18 Pa. C.S. §\$4903-4904.

j. Penalties for Falsification of Monitoring Systems

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by fines and imprisonment described in Section 309 of the Clean Water Act. In addition, criminal sanctions are set forth for false swearing and unsworn falsification at 18 Pa. C.S. §§4903-4904.

k. Requiring an Individual Permit

(1) The Department may require any person authorized by this permit to apply for and/or obtain an individual NPDES permit. Any interested person may petition the Department to take action under this paragraph. The Department may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit, coverage under this general permit shall automatically terminate. Individual permit applications shall be submitted within 90 days of notification from the Department to the address of the appropriate Regional Office shown in Part A.3 of this permit. Department may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPDES permit application as required by the Department, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of the day specified for application submittal.

(2) Any owner or operator authorized by this permit may request to be excluded from the coverage of this permit by

applying for an individual permit. The owner or operator shall submit an individual application (the Department's Simplified Application Form or Form 1 and Form 2F) with reasons supporting the request to the Department. Individual permit applications shall be submitted to the address of the appropriate Regional Office of the Department. The request may be granted by the issuance of any individual permit if the reasons cited by the owner or operator are adequate to support the request.

(3) When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit. When an individual NPDES permit is denied to an owner or operator otherwise subject to this general permit, the owner or operator can continue discharging if he meets all eligibility requirements under the general permit. If the owner or operator does not meet the eligibility requirements of the general permit, or is otherwise prohibited from general permit coverage, coverage under the general permit is automatically terminated on the date of such denial, unless otherwise specified by the Department.

1. Monitoring and Records

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

3. DEFINITIONS

"Best Management Practices (BMPs)"

Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce pollution to the waters of the Commonwealth. BMPs include PPC Plans, Erosion and Sedimentation Control Plans, Storm Water Management Act Plans, and other treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

"BYDASS"

The intentional diversion of waste streams from any portion of a treatment facility.

"Coal Pile Runoff"

The rainfall runoff from or through any coal storage pile.

"Department"

The Department of Environmental Resources of the Commonwealth.

"Director"

The Secretary of the Department of Environmental Resources, or any authorized employee thereof.

"Flow-Weighted Composite Sample"

A composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge.

"Grab Sample"

A single "dip and take" sample collected at a representative point in the discharge stream.

"Landfill"

An area of land or an excavation in which wastes are placed for permanent disposal, and which is not a land application unit, surface impoundment, injection well, or waste pile.

"Land Application Unit"

An area where wastes are applied onto or incorporated into the soil surface (excluding manure spreading operations) for treatment or disposal.

"Large and Medium Municipal Separate Storm Sever System"

All municipal separate storm sewers that are either:

(a) Located in an incorporated place with a population of 100,000 or more as determined by the latest Decennial Census by the Bureau of Census; or

(b) Located in the counties with unincorporated urbanized populations of 100,000 or more, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties; or

(c) Owned or operated by a municipality other than those described in paragraph (a) or (b) and that are designated by the

Department as part of the large or medium municipal separate storm sever system.

"Municipality"

Any county, city, borough, town, township, school district, institution or any authority crated by one or more of the foregoing. For the purposes of this definition, a town shall mean an unincorporated town.

"NOI"

The Notice of Intent for Coverage under the General Permit for Storm Water Discharges Associated Industrial Activities including Industrial Activities.

"Outfall" or "Point Source"

Point source as defined by 25 <u>Pa</u>. <u>Code</u> §92.1 which is any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel, or other floating craft from which pollutants are or may be discharged.

"Person"

Any natural person, partnership, association, corporation, business organization, or any agency, instrumentality or entity of Federal or State Government. Whenever used in any clause prescribing and imposing a penalty, or imposing a fine or imprisonment or both, the term "person" shall not exclude the member of an association and the directors, officers, or agents of a poration.

"Runoff Coefficient"

The fraction of total rainfall that will appear at the conveyance as runoff.

"SARA Title III, Section 313 Facility"

A facility that manufactures, imports, processes, or otherwise uses toxic chemicals listed under 42 U.S.C. §11023(c) and who, pursuant to Section 313 of Title III of SARA, are required to report annually their releases of those chemicals to any environmental media. Facilities that meet all of the following criterion for a calendar year are subject to title III reporting requirements for that calendar year: (1) The facility has 10 or more full-time employees;

(2) The facility is in a SIC Code of 20 through 39;

(3) The facility manufactured (including imported), processed or otherwise used a toxic chemical in excess of an applicable threshold quantity of that chemical set forth in 40 CFR 372.25.

"Section 313 Water Priority Chemical"

A chemical or chemical categories which:

(1) Are listed at 40 C.F.R. Section 372.65 pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, also titled the Emergency Planning and Community Right-to-Know Act of 1986;

(2) Are present at or above threshold levels at a facility ' subject to SARA Title III, Section 313 reporting requirements; and

(3) Meet at least one of the following criteria:

(a) Are listed in Appendix D of 40 C.F.R. Part 122 on either Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table V (certain toxic pollutants and hazardous substances);

(b) Are listed as a hazardous substance pursuant to Section 311(b)(2)(A) of the CWA and 40 C.F.R. Section 116.4; or

(c) Are pollutants for which EPA has published acute or chronic water quality criteria.

"Significant Materials"

Includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under Section 101(14) of CERCLA; any chemical the facility is required to report pursuant to Section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.

"Significant Spills"

Includes, but is not limited to: releases or oil or hazardous substances in excess of reportable quantities under Section 311 of the CWA (see 40 C.F.R. Section 110.10 and 40 C.F.R. Section 117.21) or Section 102 of CERCLA (see 40 C.F.R. Section 302.4)

"Storm Water"

Storm water runoff, snow melt runoff, and surface runoff and drainage.

"Storm Water Associated With Industrial Activity"

For purposes of this general permit, 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 at an industrial plant into surface waters of the Commonwealth. The term does not include discharges from facilities or activities excluded from the NPDES Program. For the cat gories of industries identified in subparagraphs (1) through / (9) of this subsection, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility material handling sites; refuse sites, including trash transfer stations, waste drop off sites, and waste processing facilities; sites used for the application or disposal of process waste waters (as defined at 40 C.F.R. Part 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the categories of industries identified in subparagraph (10), the term includes only storm water discharges from all areas listed in the previous sentence (except access roads) where material handling equipment or activities, raw materials, manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the categories of industries identified in subparagraph (10), the term includes only storm water discharges from all areas listed in the previous sentence (except access roads) where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, byproducts, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material

handling activities include the: storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product, or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are Federally, State, or municipally owned or operated that meet the description of a facility listed in paragraphs (1)-(10) include those facilities designated under 40 C.F.R. Section 122.26(a)(l)(v). The following categories of facilities are considered to be engaging in "industrial activity":

(1) Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards under 40 C.F.R. Subchapter N (except facilities with toxic pollutant effluent standards which are exempted as described under 10 below);

(2) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28 (except 283 and 285), 29, 311, 32 (except 323), 33, 3441, 373;

(3) Facilities classified as Standard Industrial Classifications 10 through 14 (Mineral Industry), including active or inactive mining operations (inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner/operator), and oil and gas exploration, production, processing, treatment operations, or transmission facilities, that discharge storm water contaminated by contact with, or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts, or waste products located on the site of such operations. This category does not include: (1) storm water discharges emanating from coal (anthracite and bituminous) mining activities subject to the effluent limits set forth in 25 Pa. Code Chapters 86-90, including discharges from coal mining activities that have obtained Stage II bond release pursuant to the standards set forth in 25 Pa. Code § 86.174; (2) storm water discharges emanating from surface non-coal mining activities subject to the effluent limitations set forth in 25 Pa. Code Chapter 77, including discharges from non-coal surface mines that have been released from reclamation requirements under the Noncoal Surface Mining Conservation and Reclamation Act and regulations promulgated thereto, after December 17, 1990; and (3) any other storm water discharges from active and inactive coal mining activities and

noncoal surface mining sites which are covered under an individual NPDES permit issued as part of a coal mining activity or noncoal surface mining permit in the Commonwealth;

(4) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA;

(5) Landfills, and land application sites, that have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of RCRA;

(6) Facilities involved in the recycling of materials, including metal scrapyards, recycling centers, scrap metal processors, battery reclaimers, salvage yards, automobile yards, and other automotive dismantlers and recyclers, including but limited to those classified as Standard Industrial Classification 5015 and 5093;

(7) Steam electric power generating facilities, including coal handling sites;

(8) Transportation facilities classified as Standard
 Industrial Classifications 40, 41, 42 (except 4221-4225), 43, 44,
 45 and 5171 which have vehicle maintenance shops, equipment
 cleaning operations, or airport deicing operations;

(9) Treatment works treating domestic sewage, or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 million gallons per day (mgd) or more, or required to have an approved pretreatment program under 40 C.F.R. Part 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with 40 C.F.R. Part 503. This category does not include Publicly Owned Treatment Works (POTWs) serving a population less than 100,000 which are not required to apply for and obtain NPDES permits for storm water discharges not covered under their existing NPDES permits pursuant to Section 1068(c) of the federal Intermodal Surface Transportation Efficiency Act of 1991; and

(10) Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 285, 30, 31 (except 311), 323. 34 (except 3441), 35, 36, 37, (except 373), 38, 39, 4221-25, (and which are not otherwise included within categories (1)-(9)). The term includes only storm water discharges from all areas listed (except access roads) where material handling equipment or activities, raw materials, intermadiate products, final products, waste materials, byproducts, or industrial machinery are exposed to storm water.

"Surface Waters of the Commonwealth"

Any and all rivers, streams, creeks, rivulets, impoundments, ditches, water courses, storm sewers, lakes, dammed water, ponds, springs and all other bodies or channels of conveyance of surface water, or parts thereof, including wetlands, whether natural or artificial, within or on the boundaries of this Commonwealth.

"Time-weighted Composite Sample"

A composite sample consisting of a mixture of equal volume aliguots collected at a constant time interval.

PART C

OTHER CONDITIONS

1. PROHIBITION OF NON-STORM WATER DISCHARGES

a. Except as provided in paragraph C.1.a.(2) (below), all discharges covered by this permit shall be composed entirely of storm water.

(1) Except as provided in paragraph C.1.a.(2) (below), discharges of material other than storm water must be in compliance with a NPDES permit (other than this permit) issued for the discharge.

(2) The following non-storm water discharges may be authorized by this permit provided the non-storm water component of the discharge is in compliance with paragraph C.3.a.(3) discharges from fire fighting activities; fire hydrant flushings; potable water sources including waterline flushings; irrigation ' drainage; lawn watering; routine external building washdown which does not use detergents or other compounds; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents.

2. RELEASES IN EXCESS OF REPORTABLE QUANTITIES

a. The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable PPC Plan for the facility. This permit does not relieve the permittee of the reporting requirements of 40 C.F.R. Part 117 and 40 C.F.R. Part 302 or 25 <u>Pa. Code</u> \$101.2. Except as provided in paragraph C.2.b. of this permit, where a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 C.F.R. 117 or 40 C.F.R. 302, occurs during a 24 hour period:

(1) The discharger is required to notify the National Response Center (NRC) (800-424-8802); in accordance with the requirements of 40 C.F.R. 117 and F.R. 302 as soon as he or she has knowledge of the discharge;

(2) The permittee shall a buil of this 14 calendar days of knowledge of the release a written lescription of: the release

(including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, and steps to be taken in accordance with paragraph C.2.a.(3) (below) of this permit to the appropriate Department Regional Office.

(3) The PPC plan required under Part C of this permit must be modified within 14 calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate; and .

(4) If the release is an incident causing or threatening pollution, it must be reported to the Department <u>immediately</u> pursuant to 25 <u>Pa</u>. <u>Code</u> §101.2, and action must be taken to prevent injury to downstream users and to protect waters of the Commonwealth from pollution.

b. Multiple Anticipated Discharges

Facilities which have more than one anticipated discharge per year containing the same hazardous substance in an amount equal to or in excess of a reportable quantity established under either 40 C.F.R. 117 or 40 C.F.R. 302, which occurs during a 24-hour period, where the discharge is caused by events occurring within the scope of the relevant operating system shall:

 (1) submit notifications in accordance with Part C.2.a.(2)
 (above) of this permit for the first such release that occurs during a calendar year (or for the first year of this permit, after submittal of an NOI);

(2) provide in the PPC plan required under Part C.3., a written description of the dates on which such releases occurred, the type and estimate of the amount of material released, and the circumstances leading to the release. In addition, the plan must be reviewed to identify measures to prevent or minimize such releases and the plan must be modified where appropriate; and

(3) the release shall be reported and abated <u>immediately</u> if it is an incident causing or threatening pollution pursuant to 25 Pa. Code \$101.2.

c. Spills

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

3. PREPAREDNESS, PREVENTION AND CONTINGENCY PLANS

a. Development of Plan

Operators of facilities covered under this general permit shall have developed a Preparedness, Prevention and Contingency (PPC) Plan in accordance with 25 <u>Pa</u>. <u>Code</u> §101.3 and the Department's "Guidelines for the Development and Implementation of Environmen'al Emergency Response Plans", and the supplemental PPC guidance for storm water. 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 which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility ensuring compliance with the terms and conditions of this permit. The PPC Plan shall also include:

(1) Storm Water Management Practices.

The PPC Plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those which control the source of pollutants) and the use of BMPs to control stormwater runoff and prevent storm water pollution. Based on an assessment of the potential of various sources at the plant to contribute pollutants to storm water discharges associated with industrial activity, the PPC Plan shall set forth measures determined to be reasonable and appropriate which shall be implemented and maintained.

(2) Sediment and Erosion Prevention.

The PPC Plan shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify measures to limit erosion. Sediment and Erosion prevention and control measures should be developed and implemented in accordance with Chapter 102 of the Department's rules and regulations and the Bureau of Land and Water Conservation's "Erosion and Sediment Pollution Control Program Manual."

(3) Non-Storm Water Discharges.

(a) The PPC Plan shall contain a certification that the discharge has been tested or evaluated for the presence of non-storm water discharges. The certification shall include the identification of potential significant sources of non-storm water

at the site, a description of the results of any test and/or evaluation for the presence of non-storm water discharges, the evaluation criteria or testing methods used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test. Such certification may discharge associated with industrial activity does not have access to an outfall, manhole, or other point of access to the ultimate identification section of the PPC Plan shall indicate why the certification required by this part was not fezsible. A this part must notify in accordance with Part A.3.a of this

(b) Except for flows from fire fighting activities, sources of non-storm water listed in Part C.1.a.2 (authorized non-storm water discharges) of this permit that are combined with storm water discharges associated with industrial activity must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

(4) 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 at any time after the date of three years prior to the issuance of this permit. 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 practices. Factors to consider include the toxicity of chemicals; likelihood of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants.

(b) Engineering Certification. No storm water Preparedness, Prevention and Contingency 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 to satisfy the requirements of Part C.3 of this permit unless it has been reviewed by a Registered Professional Engineer and certified to by such Professional Engineer. A Registered Professional Engineer shall recertify the PPC Plan every year thereafter. This certification may be combined with the required annual certification in C.3.c. By means of these certifications, the engineer, having examined the facility and being familiar with the provisions of this part, shall attest that the storm water PPC Plan has been prepared in accordance with good engineering practices. Such certifications shall in no way relieve the owner or operator of a facility covered by the PPC Plan of their duty to prepare and fully implement such Plan.

b. Departmental Review and Compliance Schedule Requirements

(1) The PPC Plan shall be signed in accordance with Part B.l.c of this permit. This Plan shall be maintained on-site at all times and shall be made available for review by the Department, or authorized representative, or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system. PPC Plans shall provide for compliance with the terms of the PPC Plan prior to submitting a NOI to be covered under this permit.

(2) If the PPC Plan is reviewed by the Department or its authorized representative, the permittee may be notified at any time that the plan does not meet one or more of the minimum requirements of this Part. After such notification from the Department or its authorized representative, the permittee shall make changes to the plan and shall submit to the Department a written certification that the requested changes have been made. Unless otherwise directed, the permittee shall have 30 days after such notification to make the necessary changes.

c. <u>Comprehensive Site Compliance Evaluations and Record</u> 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:

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

(3) A report summarizing the scole of the inspection, the names of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the PPC Plan, and actions taken in accordance with paragraph C.3.c.(2) (above) of the permit shall be made and retained as part of the PPC Plan for at least one year after coverage under this permit terminates. The report shall be signed in accordance with Part B.1.c. (signatory requirements) of this permit.

6. <u>Consistency with Other Plans</u>. PPC Plans may reflect requirements for Spill Prevention Control and Countermeasure (SPCC) plans developed for the facility under Section 311 of the Clean Water Act or Best Management Practices (BMPs) Program otherwise required by an NPDES permit for the facility as long as such requirement is incorporated into the plan.

e. <u>Facility Security</u>. Facilities shall have the necessary security systems to prevent accidental or intentional entry which could result in an unintentional discharge of pollutants to surface waters of the Commonwealth. Security systems described in the plan shall address fencing, lighting, vehicular traffic control, and securing of equipment and buildings.

Training. Facility employees and contractor personnel f. that work in areas where SARA Title III, Section 313 water priority chemicals are used or stored shall be trained in and informed of preventive measures at the facility. Employee training shall be conducted at intervals specified in the plan, but not less than once per year, in matters of pollution control laws and regulations, and in the PPC Plan and the particular features of the facility and its operation which are designed to minimize discharges of Section 313 water priority chemicals. The plan shall designate a person who is accountable for spill prevention at the facility and who will set up the necessary spill emergency procedures and reporting requirements so that spills and emergency releases of Section 313 water priority chemicals can be isolated and contained before a discharge of a Section 313 water priority chemical can occur. Contractor or temporary personnel shall be informed of facility operation and design features in order to prevent discharges or spills from occurring.

g. Plan Update

The permittee shall periodically review and amend the PPC Plan.

At a minimum, this must occur when:

 Applicable Department or federal regulations are revised, or this general permit is revised;

(2) The Plan fails in an emergency;

(3) There is a change in design industrial, operation, maintenance, or other circumstances, in a manner that materially increases the potential for fires, explosions or releases of toxic or hazardous constituents; or which changes the response necessary in an emergency;

(4) The list of emergency coordinators or equipment changes;or

(5) As otherwise required by the Department.

4. DISCHARGES TO LARGE OR MEDIUM SEPARATE MUNICIPAL STONM SEWERS

a. Facilities with at least one storm water discharge associated with industrial activity to a large or medium municipal separate storm sewer system (systems serving a population of 100,000 or more) in addition to maintaining copies of Discharge Monitoring Reports, in accordance with Part A.3.b. must submit, signed copies to the operator of the municipal separate storm sewer system of monitoring results on Discharge Monitoring Report Form(s). Facilities not required to report monitoring data under Parts A.2.c. and A.2.d., and facilities that are not otherwise required to monitor their discharges, need only to comply with the municipal notification provision.

b. Facilities covered by this permit must, in addition to the requirements of this general permit, comply with applicable requirements in municipal storm water management programs developed under NPDES permits issued for the discharge of the municipal separate storm sewer system that receives the facility's discharge, provided the discharger has been notified of such conditions.

5. ADDITIONAL REQUIREMENTS FOR SALT STORAGE

Storage piles of salt used for deicing or other commercial or industrial purposes and which generate a storm water discharge associated with industrial activity which is discharged to surface waters of the Commonwealth shall be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile. Existing dischargers shall demonstrate compliance with this provision as expeditiously as practicable, but in no event later than three years after the date of issuance of this permit. All new discharges must meet this requirement upon NOI approval. Piles do not need to be enclosed or covered where stormwater from the pile is not discharged to surface waters of the Commonwealth.

6. CONTINUATION OF THE EXPIRED GENERAL PERMIT

This permit expires on midnight November 6, 1997. However, an expired general permit continues in force and effect until a new general permit is issued. Permittees must submit a new NOI in accordance with the requirements of this permit, using an NOI form provided by the Department (or photocopy thereof) by May 7, 1997 to remain covered under the continued permit after November 6, 1997. Facilities that had not obtained coverage under the permit by November 6, 1997 cannot become authorized to discharge under the continued permit.

7. REOPENER CLAUSE

If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with industrial activity covered by this permit, the owner or operator of such discharge may be required to obtain individual permit or the permit may be modified to include different limitations and/or requirements.

Permit modification or revocation will be conducted according to 25 Pa. Code Chapter 92.

8. CERTIFICATION. Any person signing documents under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

APPENDIX A

CONITORING REQUIREMENTS FOR ALL SARA TITLE III, SECTION 313 FACILITIES

Discharge Parameter	(Units)	Sample . Type	Measurement Frequency
C-Biochemical Oxygen Demand (5-day)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Chemical Oxygen Demand	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Oil and Grease	(mg/L)	Grab only	1/6 Months
pH SARA Title III, Section 313	(s.v.)	Grab only	1/6 Months
Water Priority Chemicals +	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Total Suspended Solids	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Total Phosphorous	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Total Kjeldahl			
Nitrogen	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Iron (Dissolved)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months

Permittees must report results for both a grab and a composite except for discharges from holding ponds or other impoundments with a retantion 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), where a minimum of one grab sample may be taken.

Any Section 313 water priority chemical for which the permittee is subject to reporting requirements under SARA Title III, Section 313.

APPENDIX B

MONITORING REQUIREMENTS FOR ALL PRIMARY METAL INDUSTRY FACILITIES

Discharge Parameter	(Units)	Sample Type	Measurement Frequency
C-Biochemical Oxygen Demand (5-day)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Chemical Oxygen Demand	(mg/L)	l Grab/ l Composite*	1/6 Months
Oil and Grease	(mg/L)	Grab only	1/6 Months
pH	(S.U.)	Grab only	1/6 Months
Total Suspended Solids	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Lead (Total)	(mg/L)	l Grab/ l Composite*	1/6 Months
Chromium (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Copper (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months '
Cadmium (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Arsenic (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Effluent Guideline Pollutants**	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Iron (Dissolved)	(mg/L)	1 Grab/ 1 Composite	1/6 Months

- Permittees must report results for both a grab and a composite sample, except 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), where a minimum of one grab sample may be taken.
- ** Any pollutant limited in an effluent guideline, to which the facility is subject.

APPENDIX C

Discharge Parameter	(Units)	Sample Type		guency	
Chemical Oxygen Demand	(mg/L)	1 Grab/ 1 Composite*	1/6	Months	
Oil and Grease	(mg/L)	Grab only	1/6	Months	
pH	(S.U.)	Grab only	1/6	Months	
Total Dissolved Solids (TDS)	(mg/L)	1 Grab/ 1 Composite*		Months	
Total Organic Carbon (TOC)	(mg/L)	1 Grab/ 1 Composite*	1/6	Months	
Barium (Total)	(mg/L)	1 Grab/		Months	
Cadmium (Total)	(mg/L)	1 Grab/ 1 Composite*		Months	1
Chromium (Total)	(mg/L)	1 Grab/ 1 Composite*		Months	
Lead (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6	Months	
Mercury (Total)	(mg/L)	1 Grab/ 1 Composite*	- 1/6	Months	
Magnesium (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6	Months	
Magnesium (Dissolved)	(mg/L)	1 Grab/ 1 Composite*	1/6	Months	
Selenium (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6	Months	
Silver (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6	Months	
Ammonia	(mg/L)	Grab only	1/6	Months	
Arsenic (Total)	(mg/L)	1 Grab/ 1 Composite*		Months	
Cyanide (Total)	(mg/L)	Grab only		Months	
Nitrate plus Nitrite Nitrogen	(mg/L)	1 Grab/ 1 Composite*		Months	
Iron (Fissolved)	(mg/L)	1 Grab/ 1 Composite*	1/6	Months	

MONITORING REQUIREMENTS FOR ALL LAND DISPOSAL UNITS, INCINERATORS AND BIFS

APPENDIX D

MONITORING REQUIREMENTS FOR ALL WOOD TREATMENT FACILITIES

Discharge Parameter	(Units)	Sample . Type	Measurement Frequency
C-Biochemical Oxygen Demand (5-day)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Chemical Oxygen Demand	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Oil and Grease	(mg/L)	Greb only	1/6 Months
pH	(S.U.)	Grab only	1/6 Months
Nitrate plus Nitrite Nitrogen	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Total Suspended Solids	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Iron (Dissolved)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
	(mg/L)	1 Grab/	- 1/6 Months
Pentachlorophenol	()/	1 Composite*	
Pentachlorophenol In addition to the ab use creosote formulat	ove paramet	ers, as applicable	, facilities which
In addition to the ab	ove paramet ions shall ve paramete	ers, as applicable sample for: rs, as applicable,	
In addition to the ab use creosote formulat In adition to the abo	ove paramet ions shall ve paramete	ers, as applicable sample for: rs, as applicable, all sample for: 1 Grab/	
In addition to the ab use creosote formulat In adition to the abo chromium-arsenic form	ove paramet ions shall ve paramete ulations sh	ers, as applicable sample for: rs, as applicable, all sample for:	facilities that us

APPENDIX E

Discharge Parameter	(Units)	Sample . Type	Measurement Frequency
Oil and Grease	(mg/L)	Grab only	1/6 Months
pH	(S.U.)	Grab only	1/6 Months
Total Suspended Solids	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Copper (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Nickel (Total)	(mg/L)	1 Grab/ 1 Composita*	1/6 Months
Zinc (Total)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months
Iron (Dissolved)	(mg/L)	1 Grab/ 1 Composite*	1/6 Months

MONITORING REQUIREMENTS FOR ALL COAL PILE RUNOFF

APPENDIX F

(Units)	Sample Type	Measurement Frequency
(mg/L)	Grab only	1/6 Months
(mg/L)	1 Grab/ 1 Composite*	1/6 Months
(S.U.)	Grab only	1/6 Months
(mg/L)	1 Grab/ 1 Composite*	1/6 Months
(mg/L)	1 Grab/ 1 Composite*	1/6 Months
(mg/L)	1 Grab/ 1 Composite*	1/6 Months
(mg/L)	1 Grab/ 1 Composite*	1/6 Months
	(mg/L) (mg/L) (S.U.) (mg/L) (mg/L) (mg/L)	<pre>(Units) Type (mg/L) Grab only (mg/L) 1 Grab/ 1 Composite* (S.U.) Grab only (mg/L) 1 Grab/ 1 Composite* (mg/L) 1 Grab/ 1 Composite* (mg/L) 1 Grab/ 1 Composite* (mg/L) 1 Grab/ 1 Composite*</pre>

MONITORING REQUIREMENTS FOR ALL BATTERY RECLAIMERS

APPENDIX G

Discharge Parameter	(Units)	Sample . Type	Measurement Frequency
C-Biochemical Oxygen	(mg/L)	1 Grab/	1/Year
Demand (5-day)		1 Composite* .	
Chemical Oxygen	(mg/L)	1 Grab/ 1 Composite*	1/Year
Oil and Grease	(mg/L)	Grab only	1/Year
pH	(S.U.)	Grab only	1/Year
Total Suspended Solids	(mg/L)	1 Grab/ 1 Composite*	1/Year
Primary ingredient used in the deicing materials	(mg/L)	1 Grab/ 1 Composite*	1/Year
Iron (Dissolved)	(mg/L)	1 Grab/ 1 Composite*	1/Year

MONITORING REQUIREMENTS FOR ALL AIRPORTS

APPENDIX H

MONITORING REQUIREMENTS FOR ALL COAL-FIRED STEAM ELECTRIC FACILITIES

Discharge Parameter	(Units)	Sample Type	Measurement Frequency
Oil and Grease	(mg/L)	Grab only	1/Year
pH	(S.U.)	Grab only	1/Year
Total Suspended Solids	(mg/L)	1 Grab/ 1 Composite*	1/Year
Copper (Total)	(mg/L)	1 Grab/ 1 Composite*	1/Year
Nickel (Total)	(mg/L)	1 Grab/ 1 Composite*	1/Year
Zinc (Total)	(mg/L)	1 Grab/ 1 Composite*	1/Year
Iron (Dissolved)	(mg/L)	1 Grab/ 1 Composite*	1/Year

APPENDIX I

Discharge Parameter	(Units)	Sample Type	Measuremen Frequency	nt
C-Biochemical Oxygen Demand (5-day)	(mg/L)	1 Grab/ 1 Composite*	1/Year	
Chemical Oxygen Demand	(mg/L)	1 Grab/ 1 Composite*	1/Year	
Oil and Grease	(mg/L)	Grab only	1/Year	
pH	(S.U.)	Grab only	1/Year	
Total Suspended Solids	(mg/L)	1 Grab/ 1 Composite*	1/Year	
Total Kjeldahl Nitrogen	(mg/L)	1 Grab/ 1 Composite*	1/Year	
Total Phosphorous	(mg/L)	1 Grab/ 1 Composite*	1/Year	1
Fecal Coliform	(#/100ml)	1 Grab/ 1 Composite*	1/Year	
Iron (Dissolved)	(mg/L)	1 Grab/ 1 Composite*	1/Year	

MONITORING REQUIREMENTS FOR ALL ANIMAL HANDLING AND MEAT PACKING FACILITIES

APPENDIX J

Discharge Parameter	(Units)	Sample Type	Measurement Frequency
C-Biochemical Oxygen Demand (5-day)	(mg/L)	1 Grab/ 1 Composite*	1/Year
Chemical Oxygen Demand	(mg/L)	1 Grab/ 1 Composite*	1/Year 、
Oil and Grease	(mg/L)	Grab only	1/Year
pH	(S.U.)	Grab only	1/Year
Total Suspended Solids	(mg/L)	1 Grab/ 1 Composite*	1/Year
Total Kjeldahl Nitrogen	(mg/L)	1 Grab/ 1 Composite*	1/Year
Total Phosphorous	(mg/L)	1 Grab/ 1 Composite*	1/Year
Effluent Guideline Pollutants**	(mg/L)	1 Grab/ 1 Composite*	1/Year
Iron (Dissolved)	(mg/L)	1 Grab/ 1 Composite*	1/Year

MONITORING*** FOR ADDITIONAL FACILITIES

- Permittees must report results for both a grab and a composite sample, except 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), where a minimum of one grab sample may be taken.
- ** Any pollutant limited in an effluent guideline to which the facility is subject.
- *** Facilities subject to Appendix J are <u>not</u> required to monitor and may perform an annual inspection of the facility in lieu of monitoring.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF WATER QUALITY MANAGEMENT

ADDITIONAL INFORMATION FOR THE REPORTING OF STORM WATER DISCHARGE MONITORING

(This form must be filled out for each outfall sampled)

A. PERMITTEE'S NAME:	OUTFALL / DISCHARGE NO .:
FACILITY / LOCATION:	

B.	SAMPLED STORM EVENT			
	Provide the date of storm event:	Provide the duration (in hours) of storm event:		
	Estimate rainfall measurements (in inches) of the storm which generated the sampled runoff:	Estimate the duration between the storm event sampled and the end of the previous measurement (greater than 0.1 inch rainfall) storm event:		

Estimate the total volume (in gallons) of the discharge sampled:

C. GRAB SAMPLE METHODOLOGY

If a grab sample taken during the first thirty minutes of the discharge was impracticable, and the sample was instead taken during the first hour of the discharge, describe the circonstances:

D. SAMPLE WAIVER

If samples could not be collected due to adverse climatic conditions, describe why samples could not be collected. Attach available documentation of the event.

If monitoring data submitted is being used to represent 2 or more substantially identical outfalls, the information on Page 2 must be submitted for each outfall that was not sampled.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF WATER QUALITY MANAGEMENT

ADDITIONAL INFORMATION FOR THE REPORTING OF STORM WATER DISCHARGE MONITORING

E. OUTFALL DRAINAGE AREAS

Please indicate size and runoff coefficient for each of those outfalls for which data has been submitted from a representative outfall indicated on Page 1 of this form

1	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%) [] Medium (40 to 65%) [] High (over 65%) []
2	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%)
3	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%)
4	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%) Medium (40 to 65%) High (over 65%)
5	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%) High (over 65%)
6	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%) - Medium (40 to 65%) - High (over 65%) -
7	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%) High (over 65%)
8	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%) [] Medium (40 to 65%) [] High (over 65%) []
9	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%) Medium (40 to 65%) High (over 65%)
10	Estimated size of the drainage area (in square feet):	Estimated runoff coefficient (Please check one): Low (under 40%) Medium (40 to 65%) High (over 65%)

Diss change bage bage bage bage bage bage bage ba	Outfall Compar	Outfall Company Name			Permit No. Month/Year				Mon	Month/Year	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Day	Dis- charge Rate	Allow- ehle Usage Rate	Actual Usage Rate	Additive Name	Allow- able Usage Rate	NAMES OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.	Additive Name	Allow- able Usage Rate		Additive Name
2 1	-						Ī		+	Ī	
3 1	2									T	
4 1	3										
	4								Ļ		
6 1	5										
7 7 7 7 7 8 9 9 9 9 10 10 10 10 10 11 1 10 10 10 11 10 10 10 10 11 10 10 10 10 14 10 10 10 10 15 10 10 10 10 16 10 10 10 10 17 10 10 10 10 18 10 10 10 10 19 10 10 10 10 10 10 10 10 10 11 10 10 10 10 10 10 10 10 10 11 10 10 10 10 10 10 10 10 10 10	9								-	T	
8 1	7									T	
9 9 9 10 1 1 11 1 1 13 1 1 14 1 1 15 1 1 16 1 1 17 1 1 18 1 1 19 1 1 10 1 1 11 1 1 12 1 1 13 1 1 14 1 1 15 1 1 16 1 1 17 1 1 18 1 1 19 1 1 10 1 1 11 1 1 11 1 1 11 1 1 11 1 1 12 1 1 13 1<	80									T	
10 10 10 10 11 1 1 1 13 1 1 1 14 1 1 1 15 1 1 1 16 1 1 1 17 1 1 1 18 1 1 1 19 1 1 1 19 1 1 1 19 1 1 1 19 1 1 1 1 10 1 1 1 1 21 1 1 1 1 23 1 1 1 1 24 1 1 1 1 1 25 1 1 1 1 1 20 1 1 1 1 1 23 1 1 1 1 1	6									T	
11 11 12 1 13 1 14 1 15 1 16 1 17 1 18 1 19 1 10 1 11 1 12 1 20 1 21 1 22 1 23 1 24 1 25 1 26 1 27 1 28 1 29 1 20 1 21 1 23 1 24 1 25 1 26 1 28 1 29 1 20 1	10									Ţ	
12 1 1 1 13 1 1 1 16 1 1 1 17 1 1 1 18 1 1 1 1 19 1 1 1 1 19 1 1 1 1 1 19 1 1 1 1 1 19 1 1 1 1 1 10 1 1 1 1 1 1 11 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>T</td><td></td></t<>									-	T	
13 13 14 13 16 1 1 1 17 1 1 1 18 1 1 1 19 1 1 1 1 19 1 1 1 1 19 1 1 1 1 10 1 1 1 1 10 1 1 1 1 10 1 1 1 1 11 1 1 1 1 10 1 1 1 1 11 1 1 1 1 11 1 1 1 1 11 1 1 1 1 11 1 1 1 1 11 1 1 1 1 12 1 1 1 1 12 1	12								-	T	
14 1 1 1 15 1 1 1 16 1 1 1 17 1 1 1 18 1 1 1 1 19 1 1 1 1 19 1 1 1 1 1 19 1 1 1 1 1 10 1 1 1 1 1 11 1 1 1 1 1 1 11 1 1 1 1 1 1 1 12 1 <	13								-		
15 1 1 1 17 1 1 1 1 18 1 1 1 1 1 19 1 1 1 1 1 1 19 1 1 1 1 1 1 19 1 1 1 1 1 1 20 1 1 1 1 1 1 21 2 1 1 1 1 1 1 21 1	14									T	
16 1 1 1 13 1 1 1 18 1 1 1 19 1 1 1 19 1 1 1 19 1 1 1 10 1 1 1 20 1 1 1 21 1 1 1 21 1 1 1 21 1 1 1 23 2 1 1 1 24 1 1 1 1 25 1 1 1 1 26 1 1 1 1 28 2 1 1 1 1 29 2 1 1 1 1 29 1 1 1 1 1	15										
17 17 1	16									T	
18 .	17										
19 19 19 19 10<	18										
20 20 21 2 22 2 23 2 24 2 25 2 26 2 27 2 28 2 29 2 20 2 23 2 24 2 25 2 26 2 27 2 28 2 29 2 20 2	61										
21 21 22 23 23 24 24 25 25 26 26 27 27 27 28 27 29 28 30 30	20										
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	21										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22										
	23					Gi telboor					
25 26 1	24										
26 1 27 27 28 1 29 1 30 1	25										
27 1 28 1 29 1 30 1	26										
28 29 29 29 30 9	27										
29 30	28										
30	29										
	30										

INFORMATION ON CHAMICAL ADDITIVES KNOWN OR EXPECTED TO BE PRESENT IN THE DISCHARGE

Outfall	Chemical Substance or Compound	Manufacturer Name and Address	Average & Maximum Usage Rate Ibs/day	Concentration			Lowest Possible	Whole product	Whole
	Trade Names or Specific Ingredients			In-system	Effluent	Units	Analytical Detection Level (µg/l)	96 Hr LC50 (mg/l) and species ⁽²⁾	48 Hr LC50 (mg/l) and species
					8	•			

(1) This is the same data requirement as NPDES Permit application

(2) If LC50 data to whole product is not available, data for the individual ingredients may be provided

REQUIRED INFORMATION for CHEMICAL ADDITIVES:

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.)

- Trade names of additive. 1.
- 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/1). 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/1).
- Conditioned water discharge rate (blow down rate) and duration (hours). 10.
- Available data on the degradation or decomposition of the additive in the aquatic 11. 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 onsite with the required daily chemical usage data.

Special Additional Requirements for Limited Use of Carcinogens:

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 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.

DETERMINATION OF NET TSS WORKSHEET

	Obtain a grab sample from Schuyikill River on 4 consecutive s and composite.
2) 001	On third day, initiate 24 hour composite sampling of Outfall
3)	On fourth day, retrieve 001 composite sample.
4)	Analyze Schuylkill River composite for silica.
	mg/l
5)	Analyze 001 composite for silica.
	mg/l
6)	Determine concentration factor:
	001 Silica = River Sílica
7)	Analyze River composite for TSS
	mg/1
8)	Determine background TSS
(Riv	ver composite TSS) X (Concentration factor) = mg/l
9)	Analyze 001 composite for TSS
	mg/l
10)	Determine Net TSS
001	Composite TSS - Background TSS = mg/1

NPDES Number PA

INFORMATION ON CHEMICAL ADDITIVES KNOWN OR EXPECTED TO BE PRESENT IN THE DISCHARGE

Outfall	Chemical Substance or Compound	Manufacturer Name and Address	Average & Maximum Usage Rate Ibs/day	Concentration			Lowest Possible	Whole product	Whole
	Trade Names or Specific Ingredients			In-system	Effluent	Units	Analytical Detection Level (µg/l)	96 Hr LC50 (mg/l) and species ⁽²⁾	48 Hr LC50 (mg/l) and species

(1) This is the same data requirement as NPDES Permit application
 (2) If LC₅₀ data to whole product is not available, data for the individual ingredients may be provided

REQUIRED INFORMATION for CHEMICAL ADDITIVES:

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.
- 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.
- A flow diagram showing the point of chemical addition and the affected outfalls.
- 7. The expected concentration of the product at the final outfall.
- The product density for liquids (lb/gal) used to convert usage rate (gpd)-to in-system concentrations (mg/1).
 The analytical test method that could be used to use if find the system.
- 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/1).
- 10. Conditioned water discharge rate (blow down rate) and duration (hours).
- 11. Available data on the degradation or decomposition of the additive in the aquatic environment.
- 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 onsite with the required daily chemical usage data.

Special Additional Requirements for Limited Use of Carcinogens:

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 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 rensitive 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.

DETERMINATION OF NET TSS WORKSHEET

	Obtain a grab sample from Schuylkill River on 4 consecutive and composite.
2) 001.	On third day, initiate 24 hour composite sampling of Outfall
3)	On fourth day, retrieve 001 composite sample.
4)	Analyze Schuylkill River composite for silica.
	mg/l
5)	Analyze 001 composite for silica.
	mg/l
6)	Determine concentration factor:
	001 Silica = River Sílica
7)	Analyze River composite for TSS
	mg/1
8)	Determine background TSS
(Riv	ver composite TSS) X (Concentration factor) = mg/1
9)	Analyze 001 composite for TSS
	mg/l
10)	Determine Net TSS
001	Composite TSS - Background TSS = mg/l