

Permit No. PA 0009920  
Application No. 2SD OXU 3 000719

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

In compliance with the provisions of the Federal Water Pollution Control Act, as amended,  
(33 U.S.C. 1251 et. seq; the "Act"),

METROPOLITAN EDISON COMPANY  
P.O. BOX 542  
READING, PENNSYLVANIA 19603

is authorized to discharge from a facility located at

THREE MILE ISLAND NUCLEAR STATION  
LONDONDERRY TOWNSHIP, DAUPHIN COUNTY, PA.

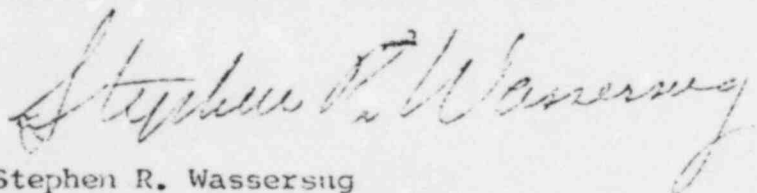
to receiving waters named SUSQUEHANNA RIVER

in accordance with effluent limitations, monitoring requirements and other conditions set forth  
in Parts I, II, and III hereof.

This permit shall become effective on January 30, 1975

This permit and the authorization to discharge shall expire at midnight, January 30, 1980

Signed this 30th day of December 1974



Stephen R. Wassersug  
Director, Enforcement Division  
Environmental Protection Agency  
Region III

8212020017 741230  
PDR ADOCK 05000289  
P PDR

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning effective date and lasting through expiration date the permittee is authorized to discharge from outfall(s) serial number(s) 101 - Treated Sewage Effluent

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Monthly Daily Avg	Weekly Avg Daily Max		
Flow—m <sup>3</sup> /Day (MGD)	N/A	N/A	N/A	N/A	2/Month	measured
Total Suspended Solids	N/A	N/A	30 mg/l	45 mg/l	2/Month	4 hr. composite
Biochemical Oxygen Demand (5-day)	N/A	N/A	30 mg/l	45 mg/l	2/Month	4 hr. composite
Total Phosphorus	N/A	N/A	2 mg/l	4 mg/l	2/Month	GRAB
Fecal Coliform	N/A	N/A	200/100 ml	400/100 ml	2/Month	GRAB

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 2/Month by grab sample.

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):

Prior to combination with any other effluent stream, designate sampling point as 101 on monitoring report.

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning effective date . . . and lasting through expiration date the permittee is authorized to discharge from outfall(s) serial number(s) 001 Combined Mechanical Draft Cooling Tower Blowdowns.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Daily Avg	Daily Max		
Flow—m <sup>3</sup> /Day (MGD)	N/A	N/A	N/A	N/A	Continuous	Measured
Temperature--heat rejected to the waterway shall not exceed a maximum of 758x10 <sup>6</sup> BTU/hour or a maximum effluent temperature of 87°F.					Continuous	Recorded
*Free available Chlorine	N/A	N/A	.2 mg/l	.5 mg/l	1/week	Grab while chlorinating

\*Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit may discharge free available or total residual chlorine at any one time unless the permittee can demonstrate to the permit issuing authority, that the units in a particular location cannot operate at or below this level of chlorination.

The pH shall not be less than 6 standard units nor greater than 9 standard units and shall be monitored 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):  
At the inlet of the nuclear services heat exchangers for temperature and at outfall 001 for all other parameters.

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning effective date . . . and lasting through June 30, 1977 the permittee is authorized to discharge from outfall(s) serial number(s) 102-Auxiliary boiler blowdown

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Daily Avg	Daily Max		
Flow—m <sup>3</sup> /Day (MGD)	N/A	N/A	N/A	N/A	1/month	measured
Total Suspended Solids	N/A	N/A	N/A	N/A	1/month	grab
Oil & Grease	N/A	N/A	N/A	N/A	1/month	grab
Total Iron	N/A	N/A	N/A	N/A	1/month	grab
Total Copper	N/A	N/A	N/A	N/A	1/month	grab
Total Phosphorus	N/A	N/A	N/A	N/A	1/month	grab

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored 1/month 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): Auxiliary boiler blowdown prior to combination with any other effluent stream. Designate sampling point as 102 on monitoring report.

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning July 1, 1977 and lasting through expiration the permittee is authorized to discharge from outfall(s) serial number(s) 102 auxiliary boiler blowdown

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Daily Avg	Daily Max		
Flow—m <sup>3</sup> /Day (MGD)	N/A	N/A	N/A	N/A	1/month	measured
Total Suspended Solids	N/A	N/A	30 mg/l	100 mg/l	1/month	grab
Oil and Grease	N/A	N/A	N/A	10 mg/l	1/month	grab
Total Iron	N/A	N/A	1 mg/l	1 mg/l	1/month	grab
Total Copper	N/A	N/A	1 mg/l	1 mg/l	1/month	grab
Total Phosphorus	N/A	N/A	N/A	N/A	1/month	grab

The pH shall not be less than 6 standard units nor greater than 9 standard units and shall be monitored 1/month 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): auxiliary boiler blowdown prior to combination with any other effluent stream designate sampling point as 102 on monitoring report.

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning effective date, and lasting through expiration date the permittee is authorized to discharge from outfall(s) serial number(s) 103 pre-operational cleaning and flushing settling basin

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Daily Avg	Daily Max		
Flow—m <sup>3</sup> /Day (MGD)	N/A	N/A	N/A	N/A	2/month	measured
Total Suspended Solids	N/A	N/A	30 mg/l	100 mg/l	2/month	grab
Oil and Grease	N/A	N/A	10 mg/l	15 mg/l	2/month	grab
Total Phosphorus	N/A	N/A	2 mg/l	4 mg/l	1/month	grab
Total Iron	N/A	N/A	1 mg/l	1 mg/l	1/month	grab
Total Copper	N/A	N/A	1 mg/l	1 mg/l	1/month	grab

The pH shall not be less than 6 standard units nor greater than 9 standard units and shall be monitored 2/month 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); Settling basin discharge prior to combination with any other effluent stream designate sampling point as 103.

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**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning effective date . . . and lasting through June 30, 1977  
 the permittee is authorized to discharge from outfall(s) serial number(s) 104 all non-radioactive low volume

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Daily Avg	Daily Max		
Flow—m <sup>3</sup> /Day (MGD)	N/A	N/A	N/A	N/A	2/month	measured
Total Suspended Solids	N/A	N/A	N/A	N/A	2/month	grab
Oil and Grease	N/A	N/A	N/A	N/A	2/month	grab

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored 2/month 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): non-radioactive low volume sources prior to combination with any other effluent stream. Designate sampling point as 104 on monitoring report.

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**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning July 1, 1977 and lasting through expiration date the permittee is authorized to discharge from outfall(s) serial number(s) 104 - all non-radioactive low volume waste sources

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Daily Avg	Daily Max		
Flow - m <sup>3</sup> /Day (MCD)	N/A	N/A	N/A	N/A	2/month	measured
Total Suspended Solids	N/A	N/A	30 mg/l	100 mg/l	2/month	24 hr. composite
Oil and Grease	N/A	N/A	10 mg/l	15mg/l	2/month	grab

The pH shall not be less than 6 standard units nor greater than 9 standard units and shall be monitored 2/month 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): non-radioactive low volume waste sources prior to combination with any other effluent stream. Designate sampling point as 104 on monitoring report.

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**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning effective date, and lasting through expiration date the permittee is authorized to discharge from outfall(s) serial number(s) 002, 003, 004, emergency outfalls

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	<u>lb/day (lbs/day)</u>		<u>Other Units (Specify)</u>		<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Daily Avg</u>	<u>Daily Max</u>	<u>Daily Avg</u>	<u>Daily Max</u>		
Flow—m <sup>3</sup> /Day (MGD)	N/A	N/A	N/A	N/A	Continuous	calculated
Temperature	N/A	N/A	N/A	N/A	5/day	i.s.
Oil and Grease	N/A	N/A	N/A	10 mg/l	1/day	grab

The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A

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 the outfall of 002, 003, 004 when in use.

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B. SCHEDULE OF COMPLIANCE

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

- a. Discharges 102, 104

Submit plans for waste treatment - 12 months from permit effective date  
Commencement of construction - March 1, 1975  
Completion of Construction - March 1, 1977  
Attainment of Operational Level - July 1, 1977

- b. Discharges 101, 001, 002, 003, 004

Attainment of operational level - effective date of permit

- c. Discharge 103

Progress Report - March 1, 1975  
Attainment of operational level - effective date of permit

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

**C. MONITORING AND REPORTING****1. Representative Sampling**

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

**2. Reporting**

Monitoring results obtained during the previous 3 months shall be summarized for each month and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on April 28, 1975. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the State at the following addresses:

Environmental Protection Agency  
Region III, Curtis Bldg. 2nd Floor  
Permits Application Section  
6th & Walnut Streets  
Philadelphia, Pennsylvania 19106  
Telephone: 215/597-9204

Pennsylvania Department  
of Environmental Resources  
Room 1003, Health & Welfare Bldg.  
Harrisburg, Pa., 17120  
Telephone: 717/787/9005

**3. Definitions**

- a. The "daily average" 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 daily average 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.
- b. The "daily maximum" discharge means the total discharge by weight during any calendar day.

See Additional definitions at the conclusion of this permit.

**4. Test Procedures**

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(g) of the Act, under which such procedures may be required.

**5. Recording of Results**

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

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;

- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant designated herein, at the location designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (EPA No. 3320-1). Such increased frequency shall also be indicated.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the State water pollution control agency.

## A. MANAGEMENT REQUIREMENTS

1. *Change in Discharge*

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. *Noncompliance Notification*

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Regional Administrator and the State with the following information, in writing, within five (5) days of becoming aware of such condition:

- a. A description of the discharge and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. *Facilities Operation*

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. *Adverse Impact*

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. *Bypassing*

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall promptly notify the Regional Administrator and the State in writing of each such diversion or bypass.

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6. *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 entering navigable waters.

7. *Power Failures*

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. In accordance with the Schedule of Compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities;

or, if such alternative power source is not in existence, and no date for its implementation appears in Part I,

- b. Halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

B. RESPONSIBILITIES

1. *Right of Entry*

The permittee shall allow the head of the State water pollution control agency, the Regional Administrator, and/or their authorized representatives, upon the presentation of credentials:

- a. 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
- b. 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; and to sample any discharge of pollutants.

2. *Transfer of Ownership or Control*

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Regional Administrator and the State water pollution control agency.

3. *Availability of Reports*

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public

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inspection at the offices of the State water pollution control agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

4. *Permit Modification*

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. *Toxic Pollutants*

Notwithstanding Part II, B-4 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, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. *Civil and Criminal Liability*

Except as provided in permit conditions on "Bypassing" (Part II, A-5) and "Power Failures" (Part II, A-7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. *Oil and Hazardous Substance 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 Act.

8. *State 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 Act.

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9. *Property 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, nor any infringement of Federal, State or local laws or regulation.

10. *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 other circumstances, and the remainder of this permit, shall not be affected thereby.

PART III

OTHER REQUIREMENTS

SPECIAL CONDITIONS: ENVIRONMENTAL STUDIES

1. Six months after the commercial operation of Unit 2, the permittee shall submit to the Regional Administrator a specific study program for monitoring impingement and entrainment effects at the plant intakes. The study should include provisions for estimating the total number, weight, and length frequency distribution of different fish species impinged, as well as estimating the number of eggs, larvae, and plankton entrained. Operating data such as intake velocity, flow, temperature, tidal conditions, etc., at the time of sampling should also be reported. Reports will be submitted on a quarterly basis.

Special Conditions: General Effective Immediately Unless Otherwise Specified

1. Debris collected on the intake trash racks shall not be returned to the waterway.
2. There shall be no discharge of polychlorinated bi-phenol transformer fluids to navigable waters.
3. The permittee shall file a report with E.P.A., Region III within 48 hours after discharging from outfalls 002, 003 and 004 stating the composition of the discharge and the reason for discharging.



4. Permittee shall submit to the Regional Administrator no later than 12 months after permit effective date, plans for the combination and effective treatment of those categories of Waste streams described in the Final Guidelines for Steam Electric Generating Plants (October 8, 1974 Federal Register). Such plans shall include an illustration reporting the flows (mgd) of each waste stream category prior to combination, a description of the proposed treatment for each waste stream category, and an implementation schedule which shows compliance by July 1, 1977. Upon receipt of such treatment plans by the permit issuing authority the discharge limitations and monitoring requirements will be revised by such authority to include all changes manifested by such treatment plans.
5. Effective no later than July 1, 1977, there shall be no discharge of solids from clarification water treatment.
6. By July 1, 1977, material storage runoff and construction runoff shall not exceed 50 mg/l Total Suspended Solids, and a pH of 6.0 - 9.0. Any untreated overflow from facilities designed, constructed and operated to treat the volume of runoff associated with the 10 year, 24 hour rainfall event for this location as defined by the National Weather Service in Technical Paper No. 40, "Rainfall Frequency Atlas of the United States", May 1961 and subsequent amendments, or equivalent regional or state rainfall probability information developed there from is not subject to these limitations.
7. All limitations and monitoring requirements for liquid radioactive waste discharges shall be in accordance with the Atomic Energy Commission regulations as set forth in 10 CFR Part 20 and 10 CFR Part 50.
8. The conditions of this permit shall in no way supercede the mandatory requirements for operation of Nuclear Power Plants imposed by the Atomic Energy Commission.
9. The discharge 001, 002, 003, or 004 shall not cause a rise in the stream temperature of more than 5°F above the ambient or a maximum of 87°F whichever is less; not to be changed by more than 2°F during any one hour period.
10. The permittee shall submit to the Pennsylvania Department of Environmental Resources within sixty (60) days of the effective date of this permit, an acceptable application for a Pennsylvania Water Quality Management Permit to provide facilities which will produce an effluent containing no more than the quantities of pollutants indicated in Part I of this permit.

- c. The "daily average" concentration means the arithmetic average of all the daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily determination of concentration shall be the arithmetic average of all the samples collected during that calendar day.
- d. The "daily maximum" concentration means the daily determination of concentration for any calendar day.
- e. Composite Sample - 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.
- f. Grab Sample - An individual sample collected in less than 15 minutes.
- g. "i-s", = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.
- h. The "daily average" temperature means the arithmetic mean of temperature measurements 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 shorter duration.
- i. The "daily maximum" temperature means the highest arithmetic mean of the temperatures observed for any two (2) consecutive hours during a 24-hour day, or during the operating day if flows are of shorter duration.
- j. "Measured Flow" - 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.
- k. "At outfall XXX" - A sampling location in outfall line XXX downstream from the last addition point or as otherwise specified.
- l. Estimate - 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.
- m. Non-contact cooling water means the water that is contained in a leak-free system, i.e. no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels.
- n. The term "cyanide A" shall mean those cyanides amenable to chlorination as described in "1972 Annual Book of ASTM Standards," 1972. Standard D2036-72, Method B, page 553.