



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III

6TH AND WALNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19106

In reply refer to: 3EN43

Mr. R. C. Arnold, Vice-President  
Metropolitan Edison Company  
P. O. Box 542  
Reading, Pennsylvania 19603

Copies to

3cc - WEP  
1cc - JGH  
1cc - CHRO  
1cc - SUBJECT  
1cc - H-2  
1cc - G.P. Miller  
CRG - Helping  
JUL 12 1977 File 7

RECEIVED

JUL 11

Re: NPDES Permit Number  
EPA PA 0009920  
Amendment Number 1

GENERATION

Dear Sir:

Enclosed is Amendment Number 1 authorizing revisions to the above-referenced National Pollutant Discharge Elimination System permit previously issued in accordance with provisions of the Federal Water Pollution Control Act Amendments of 1972.

This permit amendment becomes effective on July 12, 1977, unless you or another party file a timely and proper request for an adjudicatory hearing, pursuant to 40 C.F.R. §125.36. If such request is duly filed, those terms and conditions of the Amendment affected by the issues raised in your request shall not be effective until final agency action has occurred in accordance with 40 C.F.R. §125.36(d)(2).

Sincerely,

*Stephen R. Wassersug*  
Stephen R. Wassersug  
Director  
Enforcement Division

Enclosure

1490 150

7910810 482

# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning effective date and lasting through expiration the permittee is authorized to discharge from outfall(s) serial number(s) 001 combined mechanical draft cooling tower 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	continuous	measured
***Temperature	N/A	N/A	N/A	N/A	continuous**	"i-s"
*Free Available Chlorine	N/A	N/A	.2 mg/l	.5 mg/l	1/week	grab during chlorination
*Total Residual Chlorine	N/A	N/A	N/A	N/A	1/week	grab during chlorination

The pH shall not be less than N/A standard units not 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 outfall 001. Monitor also the ambient river temperature at a point in the receiving stream unaffected by any sources of waste heat.

\*See Special Condition #4.

\*\*Hourly Logging.

\*\*\*See Special Conditions 11, 12, 13 and 14.

POOR ORIGINAL

Page 3 of 18  
Permit No. PA 0009920  
Amendment No. 1

PART 1

1490 151

# 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) 001 - Monitoring point 102 -  
 auxillary 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	estimated
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

The pH shall not be less than N/A standard units not 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): auxillary boiler blowdown prior to combination with any other effluent stream. Report as 102.

PART I  
 Page 18  
 Permit No. PA 0009920  
 Amendment No. 1

POOR ORIGINAL

1490 152

# 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) 001 - monitoring point 102 - auxillary 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	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max	Frequency	Type
Flow-m <sup>3</sup> /Day (MGD)						

This effluent stream shall be diverted to units 1 and 2 waste treatment facility by July 1, 1977 and will be limited and monitored at monitoring point 107.

The pH shall not be less than N/A standard units not 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): N/A

PART I  
Page 5 of 18  
Permit No. PA 0009920  
Amendment No. 1

POOR ORIGINAL

1490 153  
1490 153

# A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning effective date and lasting through expiration the permittee is authorized to discharge from outfall(s) serial number(s) 001 - monitoring point 103 - pre-operational cleaning and flushing settling basins. 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)		when discharging	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max	Measurement Frequency	Type
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 & Grease	N/A	N/A	15 mg/l	20 mg/l	2/month	grab
Total Iron	N/A	N/A	N/A	1 mg/l	2/month	grab
Total Copper	N/A	N/A	N/A	1 mg/l	2/month	grab

The pH shall not be less than 6 standard units not 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 follow location(s): cleaning and flushing settling basin prior to combination with any other effluent stream. Report as 103.

Page 6 of 18  
Permit No. PA 0009920  
Amendment No. 1

POOR ORIGINAL

1490 154

# 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) 001 monitoring point 104  
non-radioactive low volume wastes from industrial waste filter building sump.  
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	estimated
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 not greater than N/A standard units and shall be monitored 2/month by a 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): low volume wastes prior to combination with any other effluent stream.

Report as 104.

PART 1  
Page 7 of 18  
Permit No. PA 0009920  
Amendment No. 1

POOR ORIGINAL

1490 155



# 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) 001 - monitoring point 104 non-radioactive low volume wastes from industrial waste filters. 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	15 mg/l	20 mg/l	2/month	grab

The pH shall not be less than 6 standard units not greater than 9 standard units and shall be monitored 2/month by a 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): low volume wastes prior to combination with any other effluent stream. Report as 104.

PAGE 8 OF 18  
Permit No. PA 0009920  
Amendment No. 1

PART 1

POOR ORIGINAL

1490 156

# 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) 001-monitoring point 105- non-radioactive low volume wastes from unit 1 waste neutralization tank. 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	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max	Frequency	Type
Flow-m <sup>3</sup> /Day (MGD)	N/A	N/A	N/A	N/A	2/month	calculated
Total Suspended Solids	N/A	N/A	N/A	N/A	2/month	grab
Oil & Grease	N/A	N/A	N/A	N/A	2/month	grab

The pH shall not be less than N/A standard units not greater than N/A standard units and shall be monitored 2/month by a 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): low volume wastes prior to combination with any other effluent stream. Report as 105.

POOR ORIGINAL

PART I  
Page 8a of 18  
Permit No. PA 0009920  
Amendment No. 1

1490 157



# 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) 001-monitoring point 105- non-reactive low volume wastes from unit 1 waste neutralization tank. 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	calcula
Total Suspended Solids	5.5(12)	33.4(73.4)	N/A	N/A	2/month	grab
Oil and Grease	2.7(6)	6.7(14.7)	N/A	N/A	2/month	grab

The pH shall not be less than 6 standard units not greater than 9 standard units and shall be monitored 2/month by a 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): low volume wastes prior to combination with any other effluent stream. Report as 105.

PART I  
Page 18  
of 18  
Permit No. PA 0009920  
Amendment No. 1

POOR ORIGINAL

1490 158

# 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) 001 - at monitoring point 106  
non-radioactive low volume wastes from unit 1 turbine sump.

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	estimate
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 not 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): low volume wastes prior to combination with any other effluent stream. Report as 106.

POOR ORIGINAL

Page 8c of 18  
Permit No. PA 0009920  
Amendment #1

PART I

1490 159

✓ 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) 001 - monitoring point 106 - non-radioactive low volume wastes from unit 1 turbine sump. 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	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max	Frequency	Type
Flow-m <sup>3</sup> /Day (MGD)						

This effluent stream shall be diverted to units 1 and 2 waste treatment facility and will be limited and monitored at monitoring point 107.

The pH shall not be less than N/A standard units not 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): N/A

PART I  
Page 18  
Permit No. PA 0003920  
Amendment No. 1

POOR ORIGINAL

1490 160

# 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) 001 monitoring point 107 units 1 and 2 waste treatment facility.

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	16.4(36)	109(240)	N/A	N/A	2/month	grab
Oil and Grease	8.2(18.1)	21.8(48.1)	N/A	N/A	2/month	grab
Total Iron	.54(1.2)	1.1(2.4)	N/A	N/A	2/month	grab
Total Copper	.54(1.2)	1.1(2.4)	N/A	N/A	2/month	grab

The pH shall not be less than 6 standard units not greater than 9 standard units and shall be monitored 2/month by a 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): the discharge from the units 1 and 2 waste treatment facility prior to combination with any other effluent stream. Report as 107.

POOR ORIGINAL

PART  
Page 86 of 18  
Permit No. PA 0009920  
Amendment No. 1

1490 161

# 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) 001 monitoring point 107 units 1 and 2 waste treatment facility.

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	N/A	N/A	2/month	grab
Oil and Grease	N/A	N/A	N/A	N/A	2/month	grab
Total Iron	N/A	N/A	N/A	N/A	2/month	grab
Total Copper	N/A	N/A	N/A	N/A	2/month	grab

The pH shall not be less than N/A standard units not 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): the discharge from the units 1 and 2 waste treatment facility prior to combination with any other effluent stream. Report as 107.

PART I  
Page 8 of 18  
Permit No. PA 0009920  
Amendment No. 1

POOR ORIGINAL

1490 162

# 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) 001 - monitoring point 108 unit 2 waste neutralization tank.

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	calculated
Total Suspended Solids	N/A	N/A	30 mg/l	100 mg/l	2/month	grab
Oil and Grease	N/A	N/A	15 mg/l	20 mg/l	2/month	grab

The pH shall not be less than 6 standard units not greater than 9 standard units and shall be monitored 2/month by a 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): unit 2 waste neutralization tank prior to combination with any other effluent stream. Report as 108

1490 163

POOR ORIGINAL

PART 1  
Page 8h of 18  
Permit No. PA 0003920  
Amendment No. 1



# 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) 001 - monitoring point 108  
unit 2 waste neutralization tank.  
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	calculated
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 6 standard units not greater than 9 standard units and shall be monitored 2/month by a 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): unit 2 waste neutralization tank prior to combination with any other effluent stream. Report as 108.

Page 8 of 18  
Permit No. PA 0009920  
Amendment No. 1

POOR ORIGINAL

1490 164

PART II

Page 15 of 18

Permit No. PA 0009920

Amendment No. 1

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.

1490 165

POOR ORIGINAL

POOR ORIGINAL

PART II

Page 16 of 18  
Permit No. PA 0009920  
Amendment No. 1

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 regulations.

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-phenyl 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.

1490 166

4. 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 in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the regional administrator or state, if the state has NPDES permit issuing authority, that the units in a particular location cannot operate at or below this level of chlorination.
5. Effective no later than July 1, 1977, there shall be no discharge of sludges 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 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 Nuclear Regulatory Commission regulations as set forth in 10 CFR Part 20 and 10 CFR Part 30.
8. The conditions of this permit shall in no way supercede the mandatory requirements for operation of Nuclear Power Plants imposed by the Nuclear Regulatory Commission.

POOR ORIGINAL

1490 167

501-02A1

9. It is recognized that influent quality changes, equipment malfunction, or other circumstances beyond the control of the permittee, may sometimes result in effluents exceeding the permit limitations despite the exercise of appropriate care, maintenance, and corrective measures by the permittee. The permittee may come forward to demonstrate to the Agency that such circumstances exist in any case where effluents exceed the limitation set forth in this permit. The Agency may consider such information in determining whether there is an actionable violation.
10. EPA will not utilize a notification of noncompliance in a criminal prosecution against the individual who gave the notification, except in a prosecution for perjury or for giving a false statement.
11. The mechanical draft cooling towers (MDCT's) shall be operated at all times except when:
  - a. In the judgement of the responsible TMINS personnel the combination of atmospheric conditions and river temperature may exist which causes the wastewater to be heated as it passes through the MDCT's.
  - b. Ice formation is observed to occur within the MDCT's.

When the conditions specified in a and b above are encountered, the MDCT's may be shut down and the seasonal temperature rise limitations specified in item 13 below will apply.

12. The temperature of the discharge shall not be more than 5°F above the ambient temperature of the receiving stream (except as specified under item 13 below) and shall never exceed a maximum of 87°F, except when the ambient river temperature exceeds 87°F, in which case, the discharge temperature shall not exceed the ambient river temperature; and the temperature of the discharge shall not change by more than 5°F during any one hour period.

Ambient temperature is the temperature of the river upstream of the heated waste discharge. The ambient temperature sampling point should be unaffected by any sources of waste heat. The temperature of the intake water will be considered as ambient river temperature as long as the intake water is unaffected by TMI's or any other nearby heated waste discharge.

POOR ORIGINAL

1490 168



13. It is recognized that for short and infrequent periods during the year the combination of atmospheric conditions and river temperature may occur which causes the MDCT's to be incapable of removing sufficient heat to meet the 5° F rise limitation specified in item 12 above. During these periods the following seasonal temperature rise limitations apply:
  - a. During the period November 1 through April 30, the temperature of the discharge shall not exceed 12° F above ambient river temperature.
  - b. During the period May 1 through October 31, the temperature of the discharge shall not exceed 7° F above ambient river temperature.
  - c. During plant cooldown operations the temperature of the discharge shall not exceed 12° F above ambient river temperature.
14. The Chief of the Operations Section of the Harrisburg Regional Office of the Bureau of Water Quality Management shall be advised by telephone within 24 hours when the MDCT's are shut down and again when tower operation is resumed; shall be notified within 24 hours when the 5° F rise limitation specified in item 12 above is exceeded and again when the discharge is in compliance with the 5° F rise limitation; and shall be notified, at least thirty (30) days in advance, whenever possible, of all scheduled plant cooldown operations.
15. Within two years after both nuclear reactor units are in commercial operation, the Metropolitan-Edison Company will collect and submit to the Department of Environmental Resources and the EPA, stream data which accurately defines the thermal plume or zone of impact from the TMINS heated waste discharge. As a minimum, thermal plume mapping data collected to meet the Nuclear Regulatory Commission's requirements shall be submitted to the Pennsylvania Department of Environmental Resources.
16. The Permittee shall submit to the Pennsylvania Department of Environmental Resources within ninety (90) days of issuance of Amendment No. 1 to the NPDES permit, an application for a new Pennsylvania Water Quality Management permit for the facilities associated with the thermal component of discharge 001.
17. For substances not specifically limited in the permit, the permittee is limited to the amount of the substance reported in the NPDES application. The permittee is not authorized to discharge any substance in excess of that reported in the NPDES application.

1490 169

POOR ORIGINAL