U.S. NUCLEAR REGULATORY [illegible] DOCKET NUMBER 50-289

NRC FORM 195 (2-76)

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO:	FROM:	DATE OF DOCUMENT
R. W. Reid	Met Ed Reading, Pa. 19603 J. G. Hervein	11/30/77
		DATE RECEIVED 12/09/77
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DESCRIPTION

1p

ENCLOSURE

Consists of recently issued, revised PaDER Section 401 Certification in accordance with TMI-1 Environmental Tech Specs Section 5.6.2.4, in order that the thermal component of the TMI discharge will meet Pennsylvania Water Quality Criteria...

4p

PLANT NAME : THREE MILE ISLAND UNIT # 1

jcm 12/12/77

1 ENCL

FOR ACTION/INFORMATION

SAFETY		ENVIRONMENTAL	
ASSIGNED AD:		ASSIGNED AD:	V. MOORE (LTR)
BRANCH CHIEF:	Reid	BRANCH CHIEF:	
PROJECT MANAGER:		PROJECT MANAGER:	
LIC. ASST:		LIC. ASST:	
			B. HARLESS

INTERNAL DISTRIBUTION

REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
NRC PDR	R. MATTSON	TEDESCO	ENVIRON ANALYSIS
I & E (2)	SCHROEDER	BENAROYA	DENTON & MULLER
OELD		LAINAS	CRUTCHFIELD
GOSSICK & STAFF	ENGINEERING	IPPOLITO	
HANAUER	KNIGHT	E. ROSA	ENVIRON TECH
MIPC	BOSNAK		ERNST
CASE	SIHWEIL	OPERATING REACTORS	BALLARD
BOYD	PAWLICKI	STELLO	YOUNGBLOOD
		EISENHUT	
PROJECT MANAGEMENT	REACTOR SAFETY	SHAO	SITE TECH
SKOVHOLT	ROSS	BAER	GAMMILL (2)
P. COLLINS	NOVAK	BUTLER	
HOUSTON	ROSZTOCZY	JAMES	SITE ANALYSIS
MELTZ	CHECK	McGOUGH	VOLLMER
HELTEMES			BUNCH
SIT	AT & I		J. COLLINS
	SALTZMAN		KREGER
	BUTLER		

EXTERNAL DISTRIBUTION

CONTROL N

LPDR: HARRISBURG, PA	NAT LAB: ANL	7734
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NSIC		
REG V (J. HANCHETT)		
1 ltr CYS SENT CATEGORY B	TO ACRS	

NRC FORM 195 (2-76)

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REGULATORY DOCKET FILE COPY

METROPOLITAN EDISON COMPANY

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603

TELEPHONE 215 – 929-3601

November 30, 1977
GQL 1646

RECEIVED
DEC 8 1977
U.S. NUCLEAR REGULATORY COMMISSION
Mail Section

Director of Nuclear Reactor Regulation
Attn: R. W. Reid, Chief
Operating Reactors Branch No. 4
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

Three Mile Island Nuclear Station Unit 1 (TMI-1)
Operating License DPR-50
Docket No. 50-289

In accordance with TMI-1 Environmental Technical Specification Section 5.6.2.4 (Item 2, concerning changes made in, or proposed for permits and/or licenses), enclosed please find the recently issued, revised PaDER Section 401 Certification.

PaDER has issued this certification in order that the thermal component of the TMI discharge would meet Pennsylvania Water Quality Criteria. We therefore estimate that no adverse environmental impact will be experienced through compliance with this certification.

We trust this submittal to be satisfactory; however, should you have any questions, please contact me.

Sincerely,

J. G. Herbein
Vice President

JGH:RAL:tas

Enclosure

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Copies to
3 cc GJT
1 cc RMK
1 cc LJ
1 cc JGH
1 cc GPMiller
1 cc chrono
Orig. -file

Room 1002 Health & Welfare Building
Harrisburg, Pennsylvania 17120
(717) 787-9665
November 9, 1977

Mr. Bruce P. Smith
Permits Branch
U.S. Environmental Protection Agency
Sixth and Walnut Streets
Philadelphia, Pennsylvania 19106

EPA Application PA0009920
Metropolitan Edison Company
Three Mile Island Nuclear Station
Londonderry Township
Dauphin County

Dear Mr. Smith:

The Commonwealth of Pennsylvania hereby certifies to the following and thus invalidates all past certifications:

1. The Amendments Nos. 1 and 2 issued 12/29/76 and 5/20/77 respectively for the National Pollutant Discharge Elimination System Permit for subject discharger were forwarded to the Commonwealth of Pennsylvania pursuant to the provisions of Section 401 of the Federal Water Pollution Control Act Amendments of 1972.

2. The effluent limitations and other limitations, and monitoring requirements as proposed in the tentative permit amendments submitted for our review:

   a. Assure that the applicant will comply with applicable effluent limitations under Section 301 or 302, standards of performance under Section 306, or prohibition, effluent standards, or pre-treatment standards under Section 307 of the FWPCA Amendments of 1972 where they are presently applicable;

   b. Shall become a condition of a Federal NPDES permit pursuant to Section 402 of the FWPCA Amendments.

3. This certification is subject to the following conditions:

   a. That the Permittee complies with Pennsylvania's Clean Streams Law.

   b. That the Permittee complies with Industrial Waste Permits 2270204 and 2272202, and Sewerage Permit 2275419 issued by the Department of Environmental Resources.

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c. The following effluent limitations should be imposed:

1. Discharge 101 - Effluent of sewage treatment facilities

Total phosphorus shall not exceed 2 mg/l on an average basis, nor 4 mg/l at any time.

2. Discharge 001 - Combined Mechanical Draft Cooling Tower Blowdown.

a. The permittee shall at all times maintain in good working order and operate the Mechanical Draft Cooling Towers (MDCT's) as efficiently as possible so as to minimize temperature differential between ambient river temperature and the temperature of the discharge; provided, however, the MDCT's may be shut down when in the judgment of the responsible TMINS personnel a combination of atmospheric conditions and river temperature may exist which causes the waste water to be heated as it passes through the MDCT's or ice formation is observed to occur within the MDCT's.

b. The temperature of the discharge 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; the temperature of the discharge shall not change by more than 5° F during any one hour period.

Ambient river 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 so long as the intake water is unaffected by TMI's or any other nearby heated water discharge.

c. The following temperature limitations shall never be exceeded:

1. During the period November 1 through April 30. the temperature of the discharge shall not exceed 12° F above ambient river temperature.

2. During the period May 1 through October 31, the temperature of the discharge shall not exceed 7° F above ambient river temperature.

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3. During plant cooldown operations the temperature of the discharge shall not exceed 12° F above ambient river temperature.

d. At no time shall the discharge exceed the rate of 150 million gallons per day.

e. 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 for reasons other than those specified in condition 2(a) above and again when tower operation is resumed; shall be notified within 24 hours when the discharge limitations specified in paragraph 2(c) above are exceeded and again when the discharge is in compliance with such limitations; and shall be notified, at least thirty (30) days in advance, whenever possible of all scheduled plant cooldown operations.

f. 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 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.

g. That the Permittee 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.

4. We certify that the final effluent limitations contained herein and in the attached NPDES permit, to the extent that they are not inconsistent with the limitations herein, are those effluent limitations which are required to achieve the federally approved water quality criteria for the receiving stream. We also certify that the compliance schedule therein is reasonable. We do not certify that the applicant for an NPDES permit is now in compliance with our effluent limitations or permit requirements established pursuant to the Clean Streams Law, Act of June 22, 1937, P.L. 1987, as amended, 35 P.S. 691.1 or that such source is discharging in compliance with the terms or conditions of a state permit. Nor do we certify that by attaining the interim standards contained in the NPDES permit that such source will be in compliance with the aforementioned Clean Streams Law and the Rules

and Regulations thereunder. By certifying the final effluent standards and the schedule for compliance to be contained in the NPDES permit, we do not waive our right to prosecute either civilly or criminally all past, present and future violations of our Clean Streams Law and the Rules and Regulations thereunder. Nor do we waive our right to modify final effluent requirements as is necessary to comply with Pennsylvania Law.

5. This certification by the Department may be appealed to the Environmental Hearing Board, First Floor Annex, Blackstone Building, 112 Market Street, Harrisburg, PA (717) 787-3483, by any aggrieved person pursuant to the Act of December 3, 1970, P.L. 834, 71 Pa. Stat. Anno. §510-1 et seq. and the Administrative Agency Law, the Act of June 13, 1945, P.L. 1388, as amended 71 Pa. Stat. Anno. §1710.1 et seq. Appeals must be filed with the Environmental Hearing Board within thirty (30) days of service of this certification unless the appropriate statute provides a different time period. Copies of the appeal form and the Department's regulations governing practice and procedure before the Board may be obtained from the Board.

Very truly yours,

Frederick A. Marrocco

Frederick A. Marrocco, Chief
Planning Section
Harrisburg Regional Office

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cc: Metropolitan Edison Company

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