

30-289

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

ENCL-0

TO: R.W. REID

FROM: METROPOLITAN EDISON CO.
READING, PA.
J.G. HERBEINDATE OF DOCUMENT
6/20/77DATE RECEIVED
6/23/77☒ LETTER
☒ ORIGINAL
☐ COPY☐ NOTORIZED
☒ UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

1564322

DESCRIPTION

LTR. CONCERNING ENVIRO TECH. SPECS CHANGES
MADE OF PROPOSAL FOR PERMITS AND LICENSES
TO ALLOW A MAXIMUM TOTAL SUSPENDED SOLIDS
CONCENTRATION OF 100 PPM FOR THE EFFLEUNT
OF THE TMI INDUSTRIAL WASTE TREATMENT
SYSTEM.....

(1P & 4P)

ENCLOSURE

PLANT NAME: THREE MILE ISALND # 1
SAB

1564 322

SAFETY

FOR ACTION/INFORMATION

ENVIRONMENTAL

ASSIGNED AD:	Reid (S)	ASSIGNED AD:	V. MOORE (LTR)
BRANCH CHIEF:	Zwetzis	BRANCH CHIEF:	
PROJECT MANAGER:	Ingram	PROJECT MANAGER:	
LICENSING ASSISTANT:		LICENSING ASSISTANT:	
			B. HARLESS

INTERNAL DISTRIBUTION

REG FILES	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
NRC PDR	HEINEMAN	TEDESCO	ENVIRON ANALYSIS
T & E (2)	SCHROEDER	BENAROYA	DENTON & MULLER
OELD		LAINAS	CRUTCHFIELD
GOSSICK & STAFF	ENGINEERING	IPPOLITO	
HANAUER	KNIGHT	F. ROSA	ENVIRO TECH.
MIPC	BOSNAK		ERNST
CASE	SIHWELL	OPERATING REACTORS	BALLARD
BOYD	PAWLICKI	STELLO	YOUNGBLOOD
		EISENHUT	
PROJECT MANAGEMENT	REACTOR SAFETY	SHAO	
SKOVHOLT	ROSS	BAER	SITE TECH.
P. COLLINS	NOVAK	BUTLER	GAMMILL (2)
HOUSTON	ROSZTOCZY	GRIMES	
MELTZ	CHECK		SITE ANALYSIS
HELTENES			VOLLMER
SK	AT&I		BUNCH
	SALTZMAN		J. COLLINS
	RUTBERG		KREGER

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: Harrisburg, R	
TIC	NSIC
NAT LAB	ANL
REG IV (J. HANCHETT)	
15 CYS ACRS SENT CATEGORY	B

771750047



METROPOLITAN EDISON COMPANY

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603

TELEPHONE 215 - 929-3601

June 20, 1977
GQL 0844

Director of Nuclear Reactor Regulation
Attn: Mr. 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 #50-289

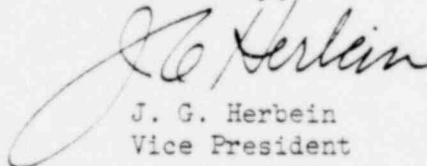
In accordance with the TMI-1 Environmental Technical Specifications Section 5.6.2.4 (Item #2, concerning changes made in, or proposed for permits and/or licenses), enclosed please find:

- 1) Our May 5, 1977 letter requesting an amendment to Industrial Waste Permit (IWP) #2276209.
- 2) PaDER letter of June 9, 1977 approving our request and amending IWP #2276209.

This amendment allows a maximum total suspended solids concentration of 100 ppm for the effluent of the TMI Industrial Waste Treatment System (IWTS). It is our estimation that, because the effluent TSS concentration will meet PaDER and EPA limitations, the environmental impact of this permit amendment will be negligible.

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

Sincerely,

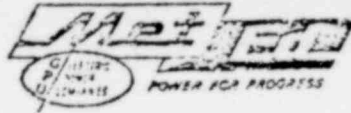

J. G. Herbein
Vice President

JGH:RAL:kl

1564 323

Enclosure : 1) GQL 0602
2) DER letter of 6/9/77

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METROPOLITAN EDISON COMPANY SUBSIDIARY OF GENERAL

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603

RAE
bcc: B. J. Beck
J. J. Colitz
R. W. Dubiel
E. C. Fuhrer
J. G. Herbein
J. E. Mudge
R. M. Klingaman
W. E. Potts
C. W. Smyth

May 5, 1977
GQL 0602

File 02.0016.0003.0050.02
63.0050.0021.0007*(Attach

Mr. Terry R. Fabian
Pa. Dept. of Environmental Resources
1002 Health & Welfare Building
Harrisburg, Pennsylvania 17120

Dear Sir:

Three Mile Island Nuclear Station (TMI-1)
Industrial Waste Permit #2270204 & #2276209

We would like to take this opportunity to review the subject of total suspended solids (TSS) concentration as discussed at the April 28, 1977 meeting of Met-Ed representatives and DER officials. At that meeting, Met-Ed noted that Module 4-2 of the application for Industrial Waste Permit #2276209 contained values for TSS which represented average, and not maximum, concentrations. As such, these figures should not be considered to be the maximum loading which the dual media filters of our treatment system will have to treat.

The design specifications for filter influent which Met-Ed presented to the manufacturer (U. S. Filter) were as follows:

<u>Component</u>	<u>Minimum Concentration</u>	<u>Average Concentration</u>	<u>Maximum Concentration</u>
1) Dissolved Iron (ppm)	0.1	0.3	0.5
2) Suspended Iron (ppm)	1.0	4.0	12.0
3) Suspended Solids (ppm)	15	60	175
4) Oil & Grease (ppm)	3	40	180
5) pH	7.3	9.4	10.1
6) Balance - water, condensate and some soluble inorganic salts.			

1564 324

The contractor has designed the treatment system for treating the maximum concentrations of these pollutants as well as any concentration up to the maximum. The manufacturer has further guaranteed that the average concentration of the effluent TSS will be 30 ppm. However, under certain conditions and for short periods of time, the concentration of effluent TSS may be as high as 100 ppm. Based on this information, we request that you reconsider our request of March 1, 1977 (GQL 0271), and amend Special Condition A of Industrial Waste Permit #2276209 to allow a maximum TSS concentration of 100 ppm as the maximum concentration for this pollutant. The 60 ppm limitation on TSS causes Met-Ed difficulty in that U. S. Filter has designed and guaranteed the system to meet the EPA limitations on TSS concentrations of 30 ppm average, and 100 ppm maximum. It should be emphasized that while in some cases the maximum TSS concentration may be as high as 100 ppm, the average concentration will be only 30 ppm.

We would also like to point out that the dual media filters used in this treatment system contain both anthracite and sand as filtering media. Furthermore, they are of the pressure type rather than the gravity feed variety. We therefore do not anticipate the problems which are sometimes encountered with the sand type of filter which is used in some sewage treatment facilities.

On a separate issue, we would like to point out that on March 15, 1976, we requested that both IWP #2276209 and #2270204 be amended to allow the use of NALCO 41-L as a corrosion inhibitor in the Secondary Services Closed Cooling Systems at TMI. On April 13, 1977, we received a letter which indicated that IWP #2270204 had been so amended; however, we have not received written verification that IWP #2276209 has also been amended. Mr. J. V. Donato, of your staff, has, through telephone conversations, indicated that IWP #2276209 was also being amended. For our records, we therefore request that you provide written verification that IWP #2276209 has also been amended to allow the above-mentioned use of NALCO 41-L.

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

Sincerely,

ORIGINAL SIGNED BY
L. L. LAWYER

L. L. Lawyer
Manager

Generation Quality Assurance

LLL:RAL:eg

Attachment: GQL 0271

cc: Mr. J. V. Donato
PaDER

02.0016.0003.0050.01
67 50.0021 0007

COMMONWEALTH of PENNSYLVANIA



DEPARTMENT OF ENVIRONMENTAL RESOURCES
1002 Health & Welfare Building
Harrisburg, Pennsylvania 17120

June 9, 1977

Industrial Waste Permit No. 2276209
Londonderry Township
Dauphin County

L. L. Lawyer, Manager
Generation Quality Assurance
Metropolitan Edison Company
P. O. Box 542
Reading, Pennsylvania 19603

Dear Mr. Lawyer:

This confirms your letter of May 5, 1977, on the request to modify the suspended solids maximum limit in the above permit. The submission was reviewed and the permit has been modified to a maximum suspended solids limit of 100 mg/l.

The second page (amended) of the permit is enclosed. Please destroy the other page and attach this amended page to the permit.

Very truly yours,

James V. Donato

James V. Donato, P. E.
Chief, Facilities Section
Harrisburg Regional Office

JVD:jvl

Enclosure

RECEIVED

JUN 10 1977

GENERATION

Copies to

WEP 2003

Urban - 1

Chem - 1

Leg - 1

Original-Holding File
Subject - 1
GM - 1 (TMI)

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Amended June 9, 1977

This permit is issued subject to all Department of Environmental Resources Rules and Regulations now in force and the following Special Conditions:

- A. The quality of the effluent discharged from the herein approved treatment works shall be limited at all times as follows:

pH -	not less than 6.0 nor greater than 9.0
Acidity -	shall not be acid
Suspended Solids -	30 mg/l as 7-day average 100 mg/l maximum at anytime
Oil and Grease -	15 mg/l as 7-day average 30 mg/l maximum at anytime

In addition to the above requirements, the permittee shall provide satisfactory disposal of sludge; and shall reduce the quantities of oil, grease, acids, alkalis, toxic, taste and odor producing substances inimical to the public interest to levels that will not pollute the receiving stream.

- B. Within six months after the herein approved waste treatment works are constructed and placed in operation, the permittee shall submit to the Department evidence of the efficiency and adequacy of such works in treating the discharges from this establishment.
- C. The attention of the permittee is directed to the necessity of technical control and experimentation in the operation of the proposed waste treatment works to insure the most effective chemical dosages and proper operation cycles necessary for satisfactory performance at all times.
- D. Inasmuch as the sufficiency of the proposed treatment will depend in a considerable measure upon the degree to which the production (quantity) of the raw waste is reduced, and whether the treatment works are adjusted to secure maximum efficiency, the permittee shall place the matter of the said reduction of the raw waste pollution load and the operation of the waste treatment works under the direct supervision of a competent sanitary engineer or other qualified person satisfactory to the Department.

1564 327