



May 1, 1978

- T. Novak
- P. Check
- R. Rosa
- R. Bosnak
- S. Pawlicki
- J. Collins
- D. Bunch
- G. Lainas

*Paul,  
no real ph...  
problems.  
Don  
13/78*

~~May~~  
*See any problem?*  
*P*

SUBJECT: INADVERTENT ECCS ACTUATION AND NaOH AND CHLORIDE INJECTION  
TMI-2

During the course of the review of TMI-2, we had expressed concern over adequate blending of sodium hydroxide and sodium thiosulphate in order to maintain acceptable pH and iodine removal capability in the reactor building spray water. To resolve this problem, the applicant had deleted the thiosulphate completely and piped the NaOH so that it was injected into the BWST discharge upstream of the suction of both the RB spray pumps and the safety injection pumps. Review by appropriate branches at the time confirmed this would not cause a safety problem.

Since the plant went critical, two reactor trips and subsequent ECCS actuations have occurred. (The causes of these actuations are unrelated and if necessary will be dealt with in separate correspondence as well as other aspects of these events). PNs describing the events are attached. Both events involved injection of NaOH into the RCS; in addition, it was realized after the first event that the NaOH contains approximately 1% chlorides, which resulted in chloride concentrations of about 3PPiI in the RCS.

Met Ed is still examining the injection arrangement - at the moment they do not consider it a significant safety problem, but it is certainly at least an operating problem for them. Their evaluation will be forwarded when received.

Given these two events, please review again the safety significance of injection of chloride-containing NaOH into the RCS. Please contact Harley Silver, the LPM, as soon as possible regarding any questions you may have, and give him your comments by May 12, 1978.

*Steven A. Varga*  
Steven A. Varga, Chief  
Light Water Reactors Branch 4  
Division of Project Management

*Harley*

*No problems according to CPB. 8003110 242  
P. Check 9 May*



Reference 36  
UNITED STATES  
NUCLEAR REGULATORY  
WASHINGTON, D. C. 20555

MAY 13 1978

Docket No. 50-320

Metropolitan Edison Company  
ATTN: Mr. J. G. Herbein  
Vice President  
P. O. Box 542  
Reading, Pennsylvania 19603

Gentlemen:

SUBJECT: THREE MILE ISLAND NUCLEAR STATION, UNIT 2- ISSUANCE OF  
AMENDMENT TO FACILITY OPERATING LICENSE

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 4 to Facility Operating License No. DPR-73 which is effective as of the date of issuance.

Amendment No. 4 is in response to your Technical Specification Change Requests Nos. 007 and 008, both dated May 10, 1978, to amend Appendix A of Facility Operating License DPR-73.

The amendment consists of the following:

1. Changes in license Paragraph 2.C.(2), and in Appendix A, Technical Specifications.

We have determined that Amendment No. 4 does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact, and pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement, negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

*Dupe of*

*79042 + 017L*

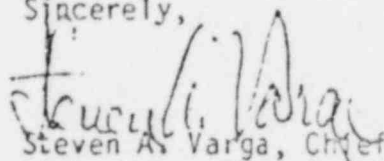
*400*

Metropolitan Edison Company

-2-

Copies of the FEDERAL REGISTER Notice of Issuance and the safety evaluation supporting Amendment No. 4 are also enclosed.

Sincerely,



Steven A. Varga, Chief  
Light Water Reactors Branch No. 4  
Division of Project Management

Enclosures:

1. Amendment No. 4 to DPR-73
2. FEDERAL REGISTER Notice
3. Safety Evaluation

ccs w/enclosures:

See next page

Metropolitan Edison Company

ccs:

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Mr. Richard W. Heward  
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GPU Service Corporation  
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Parsippany, New Jersey 07054

Mr. T. Gary Broughton  
Safety and Licensing Manager  
GPU Service Corporation  
260 Cherry Hill Road  
Parsippany, New Jersey 07054

U.S. Environmental Protection Agency  
Region III Office  
Attn: EIS Coordinator  
Curtis Building  
6th and Walnut Streets  
Philadelphia, Pennsylvania 19106

Director, Office of Radiological Health  
Department of Environmental Resources  
P. O. Box 2063  
Harrisburg, Pennsylvania 17105

Metropolitan Edison Company

Mr. Weldon B. Arehart, Chairman  
Board of Supervisors  
Londonderry Township  
RFD #1, Geyers Church Road  
Middletown, Pennsylvania 17057

Mr. Harry B. Reese, Jr., Chairman  
Board of County Commissioners  
of Dauphin County  
Dauphin County Courthouse  
P. O. Box 1295  
Harrisburg, Pennsylvania 17120

METROPOLITAN EDISON COMPANY  
JERSEY CENTRAL POWER & LIGHT COMPANY  
PENNSYLVANIA ELECTRIC COMPANY

DOCKET NO. 50-320

THREE MILE ISLAND NUCLEAR STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 4  
License No. DPR-73

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The issuance of this license amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the license, as amended, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the amended Facility Operating License No. DPR-73 is hereby amended by changing the Technical Specifications as indicated in the attachment to this license amendment.

Paragraph 2.C.(2) of amended Facility Operating License No. DPR-73 is hereby amended to read as follows:

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*7904210178*

*211*



"2.C.(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 4 are hereby incorporated in the license. Metropolitan Edison Company shall operate the facility in accordance with the Technical Specifications."

3. This license amendment is effective as of the date of its issuance. Conformance with the revised provisions of the Technical Specifications in the attachment dealing with chemical injection may be delayed for 10 days from the date of issuance of this amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by  
Steven A. Varga  
Steven A. Varga, Chief  
Light Water Reactors Branch No. 4  
Division of Project Management

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance:  
May 19, 1978