



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 96 TO FACILITY OPERATING LICENSE NO. DPR-50

METROPOLITAN EDISON COMPANY  
JERSEY CENTRAL POWER AND LIGHT COMPANY  
PENNSYLVANIA ELECTRIC COMPANY  
GPU NUCLEAR CORPORATION

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 1

DOCKET NO. 50-289

1. INTRODUCTION

By application dated January 26, 1984, GPU Nuclear Corporation (the licensee) requested a change to a license condition for the Three Mile Island Nuclear Station, Unit 1 (TMI-1) license which would allow the receipt, possession and use of byproduct, source, or special nuclear material in amounts as required for sample analysis, testing, instrument calibration, or associated with radioactive apparatus or components.

2. DISCUSSION

Currently the TMI-1 Facility Operating License authorizes the licensee to receive, possess and use 100 millicuries each of any byproduct material, and 100 milligrams each of any source or special nuclear material, without restriction to chemical or physical form, for sample analysis or instrument calibration. In the January 26, 1984 application, the licensee requested revision to the license to remove the 100 millicurie and 100 milligram limits and to authorize the receipt, use and possession of byproduct, source or special nuclear material in amounts as required for the identified purposes. The proposed change would include testing and uses associated with radioactive apparatus and components as permissible activities to be carried out by the licensee.

Amendment of the TMI-1 Facility Operating License to incorporate the proposed language would be consistent with present NRC licensing practice and with license requirements at most operating plants.

3. EVALUATION

The licensee has proposed to replace specified descriptions of special nuclear, source, and byproduct material which appear in the license with a generalized description according to a format acceptable to us. We have found that the license amendment provides the degree of specificity necessary as noted herein to assure that plant activities can be conducted without endangering the health and safety of the public. We have reviewed the licensee's program for Control of Radioactive

Materials, as described in its updated Final Safety Analysis Report (FSAR) (Update 1, July 1982 and Update 2, July 1983), and found that the licensee will meet the requirements of 10 CFR Parts 20, 30, 40 and 70. Storage and control of licensed materials in unrestricted areas will be maintained in accordance with 10 CFR Part 20, Sections 20.203, 20.205 and 20.207. Possession, use and transfer of radioactive materials will be in accordance with all applicable provisions of 10 CFR Parts 30, 40, and 70. The licensee currently has acceptable Technical Specifications for leak testing and surveillance of sources.

The licensee's radiation protection program has been evaluated and our review documented in of NUREG-0680, the TMI-1 Restart Safety Evaluation, and Supplements 1, 2, and 4 thereto. We have concluded that the incorporation of the proposed flexible yet controlled licensing provisions for the receipt, possession, and use of byproduct, source, and special nuclear material into the operating license for the Three Mile Island Nuclear Station, Unit 1, is acceptable.

#### 4. ENVIRONMENTAL CONSIDERATIONS

We have determined that the amendment 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 environment impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

#### 5. CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: June 12, 1984

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