



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 47 TO POSSESSION ONLY LICENSE NO. DPR-73  
GPU NUCLEAR CORPORATION  
THREE MILE ISLAND NUCLEAR STATION, UNIT 2  
DOCKET NO. 50-320

1.0 INTRODUCTION

By letter dated August 5, 1993, GPU Nuclear Corporation (GPUN or the licensee) requested the approval of a license amendment to change the Three Mile Island Nuclear Station, Unit 2 (TMI-2) Appendix A Technical Specifications (TS). The purpose of the amendment request is to delete Accident Generated Water requirements from the TS.

2.0 BACKGROUND

GPUN submitted a proposal to dispose of contaminated water resulting from the March 28, 1979 accident in July 31, 1986 (revised October 21, 1986). This water is defined in the unit TS as Accident Generated Water (AGW). The NRC staff completed an environmental impact review of this proposal and published Final Supplement 2 to the 1981 Programmatic Environmental Impact Statement (PEIS) in June of 1987. On February 25, 1987, the licensee requested a TS change which would allow implementation of the proposal and operation of the Processed Water Disposal System (PWDS) for processing and evaporating the AGW. The NRC staff issued the license amendment and approved the PWDS Technical Evaluation Report (TER) in a letter dated September 11, 1989.

The licensee began evaporation of the AGW in January of 1991 and completed the evaporation of 2.23 million gallons of AGW in August of 1993. The licensee drained and flushed AGW-containing systems to the extent practicable. A small amount of AGW was inaccessible in instrumentation taps, low points in piping systems, heels of tanks, and in radiologically inaccessible areas. This residual AGW amounts to less than 0.3 percent of the total AGW processed and was not practicably accessible for disposal by the PWDS. The proposed changes to the Appendix A Technical Specifications will allow future radioactively contaminated water from the unit to be processed and released in accordance with the limits in the Offsite Dose Calculation Manual.

3. EVALUATION

The change will remove the definitions of AGW and Base Case Water from the TS and will remove the specific discharge limits on the PWDS contained in TS Section 3.9.13. Limits on effluent discharges to the environment will be as currently specified in the Offsite Dose Calculation Manual.

The staff evaluation of each of the licensee proposed changes to the TMI-2 Technical Specifications are as follows:

- (1) Delete in TS Section 1.0 "DEFINITIONS" the definitions for "ACCIDENT GENERATED WATER" and "BASE CASE WATER."

Evaluation: The definitions of ACCIDENT GENERATED WATER and BASE CASE WATER are moot with the deletion of TS Section 3.9.13. TS Section 3.9.13 is the only section in which their definition is applicable. The staff finds this change acceptable.

- (2) Delete TS Section 3.9.13 "ACCIDENT GENERATED WATER."

Evaluation: This change removes the effluent limits on the PWDS. The evaporation of the AGW is complete and the PWDS has been dismantled. Any future processing of radioactive liquids from the unit will be accomplished by the liquid radwaste treatment systems and effluent limits will be less than 10 CFR 50, Appendix I, as specified in the licensee Offsite Dose Calculation Manual. The staff finds this change acceptable.

- (3) Delete Table 3.9-1 entitled "PROCESSED WATER DISPOSAL SYSTEM ENVIRONMENTAL RELEASE RATES ( $\mu\text{Ci}/\text{ml}$ )."

Evaluation: This table, referenced in TS Section 3.9.13, is no longer needed since item (2) above deletes TS Section 3.9.13. The staff finds this change acceptable.

- (4) Delete the basis for TS Section 3/4.9.13.

Evaluation: This section provides the bases for TS Section 3.9.13. Item (2) above deletes TS Section 3.9.13; therefore, TS Section 3/4.9.13 is no longer needed. The staff finds this change acceptable.

Based on the above evaluations, we find that the proposed changes to the TS, requested by the licensee in their letter of August 5, 1993, do not constitute an unreviewed safety question nor will they result in a significant environmental impact. The staff, therefore, finds the proposed changes acceptable.

#### 4.0 STATE CONSULTATION

In accordance with the Commission regulations, the State of Pennsylvania cognizant individual was notified of the proposed issuance of this amendment. The State official had no comment.

#### 5.0 ENVIRONMENTAL CONSIDERATION

This amendment involves changes in administrative procedures and changes in reporting requirements. The NRC staff has determined that the amendment involves no increase in the amounts, and no change in the types, of any effluents that may be released offsite, and that there is no change in

individual cumulative occupational exposure or exposure to the public. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (58 FR 57853, dated October 27, 1993). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9) and 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

## 6.0 CONCLUSIONS

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 regulations, and (3) the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

## 7.0 REFERENCES

1. GPUN letter C312-91-2046 dated August 5, 1993, from R. L. Long to NRC with attached Technical Specification Change Request No. 69
2. Programmatic Environmental Impact Statement related to decontamination and disposal of radioactive wastes resulting from March 28, 1979 accident at Three Mile Island Nuclear Station, Unit 2, Supplement 2 (NUREG 0683, Supplement 2), June 1987

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