

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO.66 TO FACILITY OPERATING LICENSE NPF-9

AND AMENDMENT NO. 47 TO FACILITY OPERATING LICENSE NPF-17

DUKE POWER COMPANY

DOCKET NOS. 50-369 AND 50-370

MCGUIRE NUCLEAR STATION, UNITS 1 AND 2

INTRODUCTION

By letter dated December 13, 1985, the Duke Power Company proposed changes to the Technical Specifications for the McGuire Nuclear Station, Units Nos. 1 and 2 that would involve: (1) a revision to the reporting requirements related to primary coolant iodine spikes, (2) the deletion of existing Technical Specifications (TS) requirements to shut down the facility if coolant iodine activity limits are exceeded for 800 hours in a 12-month period, and (3) a clarification of the sampling technique to allow analysis of a non-degassed reactor coolant system (RCS) sample for determination of total specific activity. The proposed changes in items (1) and (2) are in accordance with NRC Generic Letter No. 85-19 dated September 27, 1985.

EVALUATION

Generic Letter 85-19, Reporting Requirements on Primary Coolant Iodine Spikes, is part of an ongoing effort to delete unnecessary reporting requirements. It has been determined that reporting requirements related to primary coolant specific activity levels, specifically iodine spikes, can be reduced from a short term report to an item to be included in the Annual Report.

It has also been determined that existing shutdown requirements based on exceeding the primary coolant iodine activity limits for an accumulated period of over 800 hours are no longer necessary. This is based on an improvement in the quality of nuclear fuel over the past 10 years and the fact that appropriate actions would be initiated long before approaching the limit as currently specified.

Generic Letter 85-19 reports these findings and presents model Technical Specifications in Standard Technical Specification format which reflect these findings. Duke Power Company has proposed amending the McGuire Units 1 and 2 Technical Specifications to match the model Technical Specifications presented. We find the revisions to the reporting requirements and the deletion of requirements to shut down the facility if coolant icdire activity limits are exceeded for 800 hours in a 12 month period to be consistent with the Generic Letter and model Technical Specifications and, therefore, to be acceptable.

8612170270 861208 PDR ADUCK 05000369 P PDR The licensee has proposed to change the Technical Specifications to allow the use of a new analysis technique to quantify reactor coolant system activity. The present Technical Specifications require the taking of a pressurized sample of reactor coolant, degassing the sample, and analyzing the gas and the liquid separately. The results of the two analyses are then added to determine the gross radioactivity. The proposed change would permit analyzing a pressurized sample that had not been degassed. This approach is viewed as heing more desirable because it reduces occupational radiation exposures. Data submitted by the licensee indicate that the single analysis method meets regulatory requirements, and therefore, the proposed change to the Technical Specifications allowing its use is acceptable.

ENVIRONMENTAL CONSIDERATION

These amendments involve changes to the installation or use of facility combonents located within the restricted area as defined in 10 CFR Part 20 and changes in reporting or administrative procedures or requirements. The staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational exposure. The NRC staff has made a determination that the amendments involve no significant hazards consideration, and there has been no public comment on such finding. Accordingly, the amendments meet either the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9) or (c)(10). Pursuart to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these amendments.

CONCLUSION

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register (51 FR 30571) on August 27, 1986, and consulted with the state of North Carolina. No public comments were received, and the state of North Carolina did not have any comments.

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 these amendments will not be inimical to the common defense and security or to the health and safety of the public.

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Dated: December 8, 1986

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AMENDMENT NO.66 TO FACILITY OPERATING LICENSE NPF-9 - McGuire Nuclear Station, Unit 1 AMENDMENT NO.47 TO FACILITY OPERATING LICENSE NPF-17 - McGuire Nuclear Station, Unit 2

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