



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 47 TO FACILITY OPERATING LICENSE NO. NPF-62
ILLINOIS POWER COMPANY, ET AL.
CLINTON POWER STATION, UNIT NO. 1
DOCKET NO. 50-461

1.0 INTRODUCTION

By letter dated February 5, 1988, Illinois Power Company, et al., (the licensee) requested several changes to the Technical Specifications for the Clinton Power Station. Package number 5 of that submittal requested a change that would remove the isolation requirement for the Containment Monitoring (CM) and Process Sampling (PS) systems upon a Containment Exhaust Duct High Rad signal from Section 3.4.3-2, the Containment and Reactor Vessel Isolation Control System (CRVICS). The proposed change would also revise the list of containment isolation valves in Section 3.6.4 to delete the Containment Exhaust Duct High Rad trip from the list of isolation signals for the affected CM and PS valves.

2.0 EVALUATION

Clinton Technical Specifications (TS Tables 3.3.2-1, 3.3.2-2, 3.3.2-3, and 4.3.2-1) list the operability requirements, the setpoints, the response times, and the surveillance requirements for the Containment and Reactor Vessel Isolation Control System channels. Item 1.h in the aforementioned tables is the Containment Building Exhaust Radiation - High trip and includes as sub-systems:

- 1) Containment Bldg. HVAC (VR) and Drywell Purge (VQ)
- 2) Containment Monitoring (CM) and Process Sampling (PS)

Currently the TS require that the CM and PS systems automatically isolate upon receiving a Containment Building Exhaust High Radiation signal. However, the CM and PS systems are designed to be operable at high radiation levels. The Hydrogen and Oxygen monitoring function of the CM system and the Post Accident Sampling System function of the PS system are functions normally used during post-accident conditions. The CM and PS systems have small diameter (3/4-inch) lines, are normally closed loops and, therefore, are unlikely to have their integrity challenged by a condition which generates high containment radiation without associated increases in pressure and/or temperature. The isolation of the CM and PS valves initiated by high pressure and/or temperature would be unaffected by this change. The only isolation proposed to be deleted is the Containment Building Exhaust High Radiation signal. The required isolation on a Loss of Coolant Accident (LOCA) signal is unaffected by this change. The proposed change to the CRVICS tables, deleting the CM and PS isolation requirement upon a Containment Building Exhaust Radiation - High signal, is consistent with containment isolation requirements and, therefore, is acceptable.

The proposed change to delete the reference in Table 3.6.4-1 to the Containment Building Exhaust Radiation - High signal as a trip for the affected CM and PS valves is necessary to remain consistent with the previous change and is, therefore, acceptable. The administrative change to delete the specific reference to the VR and VQ systems as subsystems under Containment Building Exhaust Radiation - High in Tables 3.3.2-1, 3.3.2-2, 3.3.2-3, and 4.3.2-1 is acceptable since no other subsystems will now have individual requirements under that trip and the appropriate valves are still listed in Table 3.6.4-1.

3.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.21, 51.32, and 51.35, an environmental assessment and finding of no significant impact has been prepared and published in the Federal Register on August 14, 1990 (55 FR 33192). Accordingly, based upon the environmental assessment, the Commission has determined that the issuance of this amendment will not have a significant effect on the quality of the human environment.

4.0 CONCLUSION

The staff has 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.

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Dated: September 25, 1990