



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NOS. 94 AND 75

TO FACILITY OPERATING LICENSE NOS. DPR-53 AND DPR-69

BALTIMORE GAS AND ELECTRIC COMPANY

CALVERT CLIFFS NUCLEAR POWER PLANT UNIT NOS. 1 AND 2

DOCKET NOS. 50-317 AND 50-318

Introduction

By applications for license amendments dated January 27 and March 26, 1984, Baltimore Gas and Electric Company (BG&E) requested changes to the Technical Specifications (TS) for Calvert Cliffs Units 1 and 2.

The proposed amendment, described in the application dated March 26, 1984, would change the Unit 2 Technical Specifications (TS) to reflect: (1) revised Limiting Conditions for Operation and Surveillance Requirements for the Hydrogen Purge Outlet valves (MOV-6900 and MOV-6901) and (2) a change to the range and location of the Wide Range Neutron Flux monitor for remote shut-down. These proposed changes would apply to Unit 2 only. Other topics are addressed in the March 26, 1984 application which are still under review at this time.

The proposed amendment in the January 27, 1984 application would change the Unit 1 and Unit 2 Technical Specifications (TS) to reflect new reporting requirements necessitated by a change to the Commission's rules as contained in 10 CFR Part 50. These changes, which were effective January 1, 1984, include a revision to 10 CFR Part 50, Section 50.72, which contains the immediate notification requirements for operating nuclear power reactors. In addition, a new Section 50.73 provides for a revised Licensee Event Report System.

Discussion and Evaluation

The licensee has proposed changes to the Unit 2 TS to address LCOs and Surveillance Requirements for Containment Vent Isolation Valves. These valves are presently designated as Hydrogen Purge Outlet Valves (MOV-6900 and MOV-6901), as indicated in TS Table 3.6-1 "Containment Isolation Valves." These valves are presently non-automatic, motor operated, valves that are required by the TS to be maintained in the closed position during reactor operation (Modes 1, 2, 3 and 4.) A modification to these valves would add an automatic isolation signal to close these valves on a Safety Injection Actuation Signal (SIAS). The licensee has proposed that the redesignated Containment Vent Isolation Valves be required to close automatically in less than 20 seconds as specified in TS Table 3.6-1, and verified by periodic testing. Under reactor operating conditions Modes 1, 2, 3 and 4 the proposed new TS 3.6.1.8 would require the valves to be maintained in the

closed position and doubly isolated. In this case, double isolation includes removal of motive power (supply breaker open) and the use of a key-locked switch. Monthly surveillance in new TS 4.6.1.8 would assure that the valves remain closed and doubly isolated. In addition, during core alterations or movement of irradiated fuel within containment, the licensee has proposed TS to require that these valves remain closed.

The proposed TS are consistent with other existing Calvert Cliffs Unit 2 TS for containment purge valves. In addition, both existing and proposed TS for valves MOV-6900 and MOV-6901 require these valves to be closed during reactor operation and during refueling operations; thus, the proposed TS would be at least as restrictive as existing TS. The double isolation provision assures that these valves would be closed at the initiation of any accident and would remain closed during the course of any accident unless they are deliberately open for the purpose of post-accident hydrogen control. For the reasons specified herein, we have determined that the TS changes associated with the modified MOV-6900 and MOV-6901, the Containment Vent Isolation Valves, are acceptable.

The licensee has also proposed a change to TS Table 3.3-9, "Remote Shutdown Monitoring Instrumentation" which would increase the range of the "Wide Range Neutron Flux" instrumentation as indicated in the proposed LCO, from .1 counts per second (cps) - 150% power to .1 cps - 200% power. In addition, the indicated location would be changed from the Unit 2 Auxiliary Feedwater Pump Room to Location 2c43 (Unit 2 Switchgear Room). The remote shutdown instrumentation, which includes the Wide Range Neutron Flux instrumentation, is provided for monitoring purposes and does not provide inputs for automatically actuated equipment. Moreover, since the proposed changes to the instrumentation ranges provide equivalent or improved information, the usefulness of this instrumentation to provide post-accident information has not been degraded. On these bases, the staff concludes that these proposed changes to TS Table 3.3-9 are acceptable.

The second topic herein relates to reporting requirements for Calvert Cliffs Units 1 and 2.

Paragraph (g) of Section 50.73 specifically states that: "the requirements contained in this section replace all existing requirements for licensees to report 'Reportable Occurrences' as defined in individual plant Technical Specifications." The licensee proposed to modify the reporting requirements incorporated into the "Administrative Controls" section of TS to reflect the new rule. Also, the definition "Reportable Occurrence," TS 1.7, must be replaced by a new term, "Reportable Event." Finally, a number of special reporting requirements in the TS must be modified to achieve consistency with Section 50.73 as follows: (1) Fire Detection Instrumentation, TS 3/4.3.3.7, (2) Steam Generators, TS 3/4.4.5, (3) Specific Activity, TS 3/4.4.8, (4) Containment Structural Integrity, TS 3/4.6.1.6, (5) Fire Suppression Systems, TS 3/4.7.11, and (6) Penetration Fire Barriers, TS 3/4.7.12.

On December 19, 1983, the NRC issued guidance to applicants and licensees concerning the revised reporting requirements, "Reporting Requirements of 10 CFR Part 50, Sections 50.72 and 50.73, and Standard Technical Specifications (Generic Letter No. 83-43)." The guidance contained in Generic Letter No. 83-43 included model Standard Technical Specifications for reporting requirements. The licensee's proposed TS changes for reporting requirements are consistent with this guidance. Since the proposed changes to the TS result only in changes to reporting requirements, no changes to facility operations will result. We find the proposed changes to the TS to be acceptable.

Environmental Consideration

We have determined that the amendments do 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 amendments involve 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 or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of the amendments.

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

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