



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NOS. 94 AND 63 TO

FACILITY OPERATING LICENSE NOS. DPR-51 AND NPF-6

ARKANSAS POWER AND LIGHT COMPANY

ARKANSAS NUCLEAR ONE, UNITS NOS. 1 AND 2

DOCKET NOS. 50-313 AND 50-368

INTRODUCTION AND BACKGROUND

In November 1980, the staff issued NUREG-0737, "Clarification of TMI Action Plan Requirements", which included all TMI Action Plan items approved by the Commission for implementation at nuclear power reactors. NUREG-0737 identifies those items for which Technical Specifications were scheduled for implementation after December 31, 1981. The staff provided guidance on the scope of Technical Specifications for all of these items in Generic Letter 83-37. Generic Letter 83-37 was issued to all Pressurized Water Reactor (PWR) licensees on November 1, 1983. In this Generic Letter, the staff requested licensees to:

1. review their facility's Technical Specifications to determine if they were consistent with the guidance provided in the Generic Letter, and
2. submit an application for a license amendment where deviations or absence of Technical Specifications were found.

In response to Generic Letter 83-37 Arkansas Power and Light Company (AP&L or the licensee) requested by letter dated March 16, 1984, supplemented by letter dated August 22, 1984, amendments to the Technical Specifications (TSs) appended to Facility Operating License Nos. DPR-51 and NPF-6 for Arkansas Nuclear One, Units Nos. 1 & 2 (ANO-1&2) respectively. The proposed changes would provide TS requirements for the following NUREG-0737 Items:

1. Reactor Coolant System Vents (II.B.1)
2. Post-Accident Sampling (II.B.3)
3. Sampling and Analysis of Plant Effluents (II.F.1.2)
4. Containment High-Range Radiation Monitor (II.F.1.3)
5. Containment Pressure Monitor (II.F.1.4)
6. Containment Water Level Monitor (II.F.1.5)

## EVALUATION

### 1. Reactor Coolant System Vents (II.B.1)

Our guidance for Reactor Coolant System (RCS) vents identified the need for at least one operable vent path at the reactor vessel head, the pressurizer steam space, and reactor coolant system high point. Generic Letter 83-37 also provided limiting conditions for operation and the surveillance requirements for the RCS vents. The licensee has proposed TSs that are consistent with our guidance contained in Generic Letter 83-37. We find the proposed TS to be acceptable as it meets the intent of the guidance contained in Generic Letter 83-37.

### 2. Post-Accident Sampling (II.B.3)

The guidance provided by Generic Letter 83-37 requested that an administrative program should be established, implemented and maintained to ensure that the licensee has the capability to obtain and analyze reactor coolant and containment atmosphere samples under accident conditions. The Post-Accident Sampling System is not required to be operable at all times. Administrative procedures are to be established for returning inoperable instruments to operable status as soon as practicable.

The licensee has provided a proposed revision to the TS which is consistent with the guidelines provided in our Generic Letter 83-37. We conclude that the licensee has an acceptable TS for the Post-Accident Sampling System.

### 3. Sampling and Analysis of Plant Effluents (II.F.1.2)

The guidance provided by Generic Letter 83-37 requested that an administrative program should be established, implemented and maintained to ensure the capability to collect and analyze or measure representative samples of radioactive iodines and particulates in plant gaseous effluents during and following an accident. The licensee has proposed TSs that are consistent with our guidance. We conclude that the TSs for sampling and analysis of plant effluents are acceptable.

### 4. Containment High-Range Radiation Monitor (II.F.1.3)

The licensee has installed two in-containment monitors in each ANO unit that are consistent with the guidance of TMI Action Plan Item II.F.1.3. Generic Letter 83-37 provided guidance for limiting conditions of operation and surveillance requirements for these monitors. The licensee proposed TSs that are consistent with the guidance provided in our

Generic Letter 83-37. We conclude that the proposed TSs for Item II.F.1.3 are acceptable.

5. Containment Pressure Monitor (II.F.1.4)

Each ANO unit has been provided with two supplementary channels for monitoring containment pressure following an accident. The licensee has proposed TSs that are consistent with other accident monitoring instrumentation in both units. This is consistent with the guidance contained in Generic Letter 83-37. Therefore, we conclude that the proposed TSs for containment pressure monitors are acceptable.

6. Containment Water Level Monitor (II.F.1.5)

Narrow range and wide range containment water level monitors provide the capability required by TMI Action Plan Item II.F.1.5. The TSs for wide range water level monitor for both units contain limiting conditions of operation and surveillance requirements that are consistent with the other accident monitoring instrumentation in both units. This is consistent with the guidance contained in Generic Letter 83-37. The TSs for narrow range instrumentation are already covered by existing TSs for the reactor coolant leakage detection system in both units. We conclude that the proposed TSs for containment water level monitors are acceptable.

#### ENVIRONMENTAL CONSIDERATIONS

These amendments involve changes in the installation or use of facility components located within restricted areas as defined in 10 CFR Part 20. 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 radiation exposure. The Commission has previously issued a proposed finding that these amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these amendments.

#### 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'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.

Dated: January 31, 1985

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