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DOCUMENT TITLE: UNIT I TECHNICAL REQUIREMENT MANUAL

REV/AMEND/CHG NO: APPROVED REV 02

SUBJECT: U-1 TRM  
REPLACE PAGE ACCORDING TO INSTRUCTIONS

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ANO-1 Docket 50-313

ANO-2 Docket 50-368

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ADD1

**TECHNICAL REQUIREMENTS MANUAL REVISION: TWO**

**ARKANSAS NUCLEAR ONE, UNIT NO. ONE**

Revise the following pages of the associated Technical Requirements Manual with the attached pages.

REMOVE PAGES

INSERT PAGES

**Index Pages**

**Technical Specifications Pages**

3.5-1

-----3.5-1

## 3.5 INSTRUMENTATION SYSTEMS

### LIMITING CONDITION FOR OPERATION

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#### 3.5.1 Operational Instrumentation

##### Applicability

Applies to unit instrumentation.

##### Objectives

To delineate the conditions of the unit instrumentation.

##### Requirements

- 3.5.1.1 Startup and operation are not permitted unless the requirements of Table 3.5.1-1, columns 3 and 4 are met.
- 3.5.1.2 In the event the number of protection channels operable falls below the limit given under Table 3.5.1-1, Columns 3 and 4, operation shall be limited as specified in Column 5.
- 3.5.1.10 The control room ventilation chlorine detection system instrumentation shown in Table 3.5.1-1 shall be operable and capable of actuating the control room isolation system, with alarm/trip setpoints adjusted to actuate at a chlorine concentration of  $\leq 5$  ppm.
- 3.5.1.13 The Seismic Monitoring Instrumentation shown in Table 3.5.1-1 shall be operable with a minimum measurement range of 0.01 - 1.0 g for Triaxial Time - History Accelerographs, 0.05 - 1.0 g for Triaxial Peak Accelerographs, and 2-25.4 Hz for Triaxial Response Spectrum Recorders.

### BASES

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The operability of the chlorine detection system ensures that sufficient capability is available to promptly detect and initiate protective action in the event of an accidental chlorine release. This capability is required to protect control room personnel and is consistent with the recommendations of Regulatory Guide 1.95, "Protection of Nuclear Power Plant Control Room Operators against an Accidental Chlorine Release," February 1975.

The operability of the Seismic Monitoring Instrumentation ensures that sufficient capability is available to promptly determine the magnitude of a seismic event and evaluate the response of those features important to safety. This capability is required to permit comparison of the measured response to that used in the design basis for the facility to determine if plant shutdown is required pursuant to Appendix "A" of 10 CFR Part 100. The instrumentation is consistent with the recommendations of Safety Guide 12, "Instrumentation for Earthquake," published March 19, 1971, and NUREG-0800 Section 3.7.4, "Seismic Instrumentation."

##### References

SAR, Section 2.7.6