SECTION I

INSPECTION OBJECTIVES

Ascertain whether the licensee has developed and implemented programs for control and evaluation of:

1. Surveillance testing, calibration and inspection required by Section 4 of the Technical Specifications, Inservice Inspection of Pumps and Valves as described in 10 CFR 50.55a.(g), and
2. Calibration of safety related instrumentation not specifically controlled by Technical Specifications.

1. Surveillance Testing

a. Program Review

*(1) Verify that a master schedule for surveillance testing/calibration/inservice inspections required by Technical Specifications or 10 CFR 50.55a have been established which includes:

*(a) Frequency for each test/calibration/inspection

*(b) Plant group responsible for performing each test/calibration/inspection

*(c) Surveillance test status

(2) Verify that responsibility has been assigned in writing to maintain the master surveillance test/calibration/inspection schedule up-to-date.

(3) Determine that formal requirements have been established for conducting surveillance tests, calibrations, and inspections in accordance with approved procedures which include acceptance criteria.

(4) Determine that formal methods and responsibilities have been defined for review and evaluation of surveillance test/calibration data including procedures for reporting deficiencies, failures, malfunctions, etc. identified during the tests/calibrations or inspections with required verification that LCO requirements were satisfied.

(5) Verify that responsibility has been assigned for assuring that required schedules for all tests and inspections are satisfied.

b. Implementation

*(1) Select 20 surveillance tests required by Technical Specifications and verify that each of the selected tests or inspections has been included in a master schedule and that the planned schedule is in accordance with the requirements of the Technical Specifications.

2. Calibration - Safety Related Components Not Identified in Technical Specifications

a. Program Review

*(1) Determine that calibration requirements have been established for components associated with safety

related systems or functions but which are not specified in the technical specifications as requiring calibration. The calibration requirements should be specified in a master schedule or equivalent that includes the following:

*(a) Calibration frequency for each component

*(b) Plant group responsible for performing the calibration

*(c) Calibration status

(2) Verify that responsibility has been assigned in writing to maintain the "master calibration schedule" up-to-date.

(3) Determine that formal requirements have been established for performing component calibrations

in accordance with approved procedures which include acceptance criteria.

(4) Verify that responsibility for assuring that required component calibration schedules are satisfied.

b. Implementation

*(1) Select 5 safety related plant instruments which are not specifically required to be calibrated by Technical Specifications and verify the following:

*(a) That each of the selected instruments has been included in a master calibration program.

*(b) That calibration procedures have been prepared and approved.

*(c) That calibration of the instruments have been performed.

SECTION III
INSPECTION GUIDANCE

References: Proposed Technical Specifications; 10 CFR 50.55a; Section 13 of the FSAR; ANSI N18.7-1976; Regulatory Guide 1.33.

1. The inspection effort in this area should be directed at assuring that the licensee has developed a formal system to control and evaluate testing, calibration and inspection required by Section 4 of the Technical Specifications and 10 CFR 50.55a. Section 5.2.8 of the ANSI N18.7-1976 specifies that a master schedule shall be prepared for control of surveillance testing, calibration and inspection. RG 1.33, Appendix A, Section 8, requires that procedures shall be prepared for each surveillance test, inspection, or calibration listed in Technical Specifications. Section 6.8 of the Standard Technical Specifications requires that these procedures be used.

10 CFR 50.55a Codes and Standards establishes specific inservice inspection requirements for structures, systems and components commensurate with the importance of the safety function to be performed. The licensee may propose an alternate inservice inspection program which must be reviewed and approved by NRR. Details of the revised program will be discussed in the FSAR.

2. In order for the plant to operate within certain LCO and Surveillance requirements of the Technical Specifications operators are required to monitor various plant parameters. The Technical Specifications do not specify specific calibration requirements for certain of these instruments, for example: boric acid tank temperature; discharge pressures for various engineered safety feature pumps; safety injection accumulator level and nitrogen cover gas pressure; and cooling water flow to containment coolers.

The inspection effort in this area should be directed at assuring that the licensee has developed a formal system to control and evaluate calibration of these safety related instruments. Regulatory Guide 1.33 requires that calibration procedures be prepared for safety related readout instruments. Section 6.8.1 of the Standard Technical Specifications requires that these procedures be implemented.

Note: 1. Only single * requirements need to be inspected when the reactor facility for which the application is being made for an operating license is located at the same site and will ues the same site management that was inspected within the previous 24 months.

2. The program review function should be completed during the operational preparedness phase of MC 2513.

3. A Surveillance Testing and Calibration Control Program for plant operations is not required until the facility license is issued. Therefore, inspection of program implementation may be deferred if necessary but should be completed within the first six month period of operation.

4. For record keeping purposes, the program review and program implementation phases of the inspection will be assigned 50% of the total effort.