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

YANKEE ATOMIC ELECTRIC COMPANY

DOCKET NO. 50-29

YANKEE NUCLEAR POWER STATION (YANKEE-ROWE)

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 48
License No. DPR-3

1. The Nuclear Regulatory Commission (the Commission) has found that:

   A. The applications for amendment by Yankee Atomic Electric Company (the licensee) dated November 14, 1977 (Proposed Change No. 156) and March 16, 1978 (Proposed Change No. 159), comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;

   B. The facility will operate in conformity with the applications, the provisions of the Act, and the rules and regulations of the Commission;

   C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;

   D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;

   E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-3 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 48 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 23, 1978

ATTACHMENT TO LICENSE AMENDMENT NO. 48

FACILITY OPERATING LICENSE NO. DPR-3

DOCKET NO. 50-29

Revise Appendix A Technical Specifications by removing the following pages and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and contain vertical lines indicating the area of change.

REMOVE	INSERT
3/4 4-25	3/4 4-25
3/4 5-8	3/4 5-8

Overleaf pages (3/4 4-26 and 3/4 5-7) are included for document completeness.

MAIN COOLANT SYSTEM

PRESSURIZER

LIMITING CONDITION FOR OPERATION

3.4.8.2 The pressurizer temperature shall be:

a. Limited to a maximum heatup of 100°F in any one hour period,

b. Limited to a maximum cooldown of 200°F in any one hour period,

c. Within 225°F of the Main Coolant System temperature, and

d. Greater than 70°F whenever pressurizer pressure exceeds 500 psig.

APPLICABILITY: At all times.

ACTION:

With the pressurizer temperature outside of any of the above limits, restore the temperature to within the limits within 30 minutes; perform an engineering evaluation to determine the effects of the out-of-limit condition on the fracture toughness properties of the pressurizer; determine that the pressurizer remains acceptable for continued operation or be in at least HOT STANDBY within the next 6 hours and reduce the pressurizer pressure to less than 500 psig within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.4.8.2 The pressurizer temperatures shall be determined to be within the limits:

a. At least once per 30 minutes during system heatup or cooldown, and

b. By verifying the Main Coolant System and pressurizer water temperature differential to be within the limit at least once per 12 hours during steady state operation.

MAIN COOLANT SYSTEM

STRUCTURAL INTEGRITY

CLASS 1 COMPONENTS

LIMITING CONDITION FOR OPERATION

3.4.9 The structural integrity of Main Coolant System components (except steam generator tubes) identified in Table 4.4-3 as Class 1 components shall be maintained at a level consistent with the acceptance criteria in Specifications 4.4.9.1, 4.4.9.2, 4.4.9.3 and 4.4 9.4.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With the structural integrity of any of the above components not conforming to the above requirements, restore the structural integrity of the affected component to within its limit or isolate the affected component prior to increasing the Main Coolant System temperature more than 50°F above the minimum temperature required by NDT considerations. The provisions of Specification 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.4.9.1 The following inspection program shall be performed during shutdown:

a. Inservice Inspections The structural integrity of the Class 1 components shall be demonstrated by verifying their acceptability when inspected per the applicable requirements of Section XI of the ASME Boiler and Pressure Vessel Code, 1970 Edition, and Addenda through Winter 1970, as outlined by the inspection program shown in Table 4.4-3.

For all Class 1 piping the ultrasonic calibration shall be per:

1. Article III-200 of Appendix III - ASME Sec XI-Summer 1976 Addenda except that III-2410 shall be deleted, III-2430 shall be used except 50% Reference level recording shall be performed. Ten percent overlap shall be retained.

2. Article III-3000 shall be used entirely.

3. Article III-4000 shall be used entirely.

4. Supplement 7 shall be used for austenitic welds.

SURVEILLANCE REQUIREMENTS (Continued)

7. Verifying that ECCS recirculation subsystem each pair of redundant valves and purification pumps are aligned to receive electrical power from separate OPERABLE busses.

8. Verifying that each ECCS long term hot leg injection subsystem charging pump is aligned to receive electrical power from an OPERABLE bus.

9. Verifying that the long term hot leg injection flow metering instrument is OPERABLE by observing charging flow rate at least once per 12 hours.

c. By a visual inspection which verifies that no loose debris (rags, trash, clothing, etc.) is present in the containment which could be transported to the containment sump and cause restriction of the pump suctions during LOCA conditions. This visual inspection shall be performed:

1. For all accessible areas of the containment prior to establishing containment integrity, and

2. Of the areas affected within containment at the completion of each containment entry when containment integrity is established.

d. At least once per 18 months by visual inspection of the containment sump and verifying that the subsystem suction inlets are not restricted by debris and that the sump components (trash racks, screens, etc.) show no evidence of structural distress or corrosion.

e. At least once per 18 months, during shutdown, by:

1. Cycling each power operated (excluding automatic) valve in the flow path through at least one complete cycle of full travel.

2. Verifying that valve CS-MOV-532 actuates to its correct position on a safety injection signal.

SURVEILLANCE REQUIREMENTS (Continued)

3. Verifying that each of the following pumps start automatically upon receipt of a safety injection signal:

   a) High pressure safety injection (HPSI) pump

   b) Low pressure safety injection (LPSI) pump

4. Verifying that two low pressure safety injection pumps develop combined flow 2180 gpm. Test every LPSI pump at least once per 36 months.

5. Verifying that each charging pump stops automatically upon receipt of a safety injection signal.

6. Verifying that the long term hot leg injection flow metering instrument is OPERABLE by performing a CHANNEL CALIBRATION.

7. Verifying that each valve listed in Specification 4.5.2.b.4 is in its normally open position.

8. Verifying the proper positioning of the HPSI throttle valves SI-V-671, 672, 673, and 674 by performing an inspection to insure that:

   a) Each valve locking device is in place and securely welded to the valve handle and to the valve yoke.

   b) The scribe mark on each valve body aligns with the scribe mark on the valve yoke.

f. At least every 36 months, and/or any time either test under 4.5.e.8 is failed, by developing a backpressure of 875 psig in the high pressure safety injection header with two HPSI pumps operating as follows:

   1. Pressure to the suction of the HPSI pumps to be 170± 10 psi.

   2. LPSI flow is isolated.

   3. Injection flow is to one loop with the other loops isolated by closing the appropriate injection gate valves CS-MOV-536, CS-MOV-537, CS-MOV-538, and CS-MOV 539.

   4. The flow to the injection loops shall not be less than 200 gpm.

   5. The above test shall be repeated to include the operation of all HPSI pumps.