

Attachment A

Proposed Technical Specification Change

Proposed Change

Reference is made to Pilgrim Nuclear Power Station, Unit #1 Technical Specification, Appendix A, Section 3.6.F, "Jet Pump Flow Mismatch".

Add the following: Add new Item 3.6.F.2

2. If Specification 3.6.F.1 is exceeded immediate corrective action shall be taken. If recirculation pump speed mismatch is not corrected within 30 minutes, an orderly shutdown shall be initiated and the reactor shall be in Cold Shutdown Condition within 24 hours unless the recirculation pump speed mismatch is brought within limits sooner.

Add the following: New Paragraph to Bases 3.6.F

Specification 3.6.F allows 30 minutes to correct a mismatch in recirculation pump speeds in order to take manual control of the recirculation pump MG set scoop tube positioner in the event that its control system should fail.

Reason for Change

It is important to specify an action statement in the event that a Limiting Condition of Operation (LCO) is exceeded. The inclusion in the Technical Specifications of a specific action statement minimizes potential confusion as to required actions to take when a LCO is exceeded. This new Item 3.6.F.2 provides an action statement in the event that Item 3.6.F.1 is exceeded.

Safety Considerations

This change does not present an unreviewed safety question as defined in 10 CFR 50.59(c). It has been reviewed and approved by the Operations Review Committee and reviewed by the Nuclear Safety Review and Audit Committee.

Schedule for Change

This change will be put into effect upon receipt of approval by NRC.

Fee Determination

Pursuant to 10 CFR 170.12 Boston Edison Company proposes this change as Class II.

3.6.D. Safety Relief Valves (Cont'd)

from the initial discovery of discharge pipe temperatures in excess of 212°F for more than 24 hours without prior NRC approval of the engineering evaluation delineated in 3.6.D.3.

5. The limiting conditions of operation for the instrumentation that monitors tail pipe temperature are given in Table 3.2.F.

E. Jet Pumps

1. Whenever the reactor is in the startup or run modes, all jet pumps shall be operable. If it is determined that a jet pump is inoperable, an orderly shutdown shall be initiated and the reactor shall be in a Cold Shutdown Condition within 24 hours.

F. Jet Pump Flow Mismatch

1. Whenever both recirculation pumps are in operation, pump speeds shall be maintained with 10% of each other when power level is greater than 80% and within 15% of each other when power level is less than or equal to 80%.
2. If Specification 3.6.F.1 is exceeded immediate corrective action shall be taken. If recirculation pump speed mismatch is not corrected within 30 minutes, an orderly shutdown shall be initiated and the reactor shall be in the Cold Shutdown condition within 24 hours unless the recirculation pump speed mismatch is brought within limits sooner.

G. Structural Integrity

1. The structural integrity of the primary system boundary shall be maintained at the level required by the ASME Boiler and Pressure Vessel Code, Section XI, "Rules of Inservice Inspection of Nuclear Power Plant Components", 1974.

E. Jet Pumps

Whenever there is recirculation flow with the reactor in the start-up or run modes, jet pump operability shall be checked daily by verifying that the following conditions do not occur simultaneously.

1. The two recirculation loops have a flow imbalance of 15% or more when the pumps are operated at the same speed.
2. The indicated value of core flow rate varies from the value derived from loop flow measurements by more than 10%.
3. The diffuser to lower plenum differential pressure reading on an individual jet pump varies from established jet pump P characteristics by more than 10%.

F. Jet Pump Flow Mismatch

Recirculation pump speeds shall be checked and logged at least once per day.

G. Structural Integrity

The nondestructive inspections listed in Table 4.6.1 shall be performed as specified. The results obtained from compliance with this specification will be evaluated after 5 years and the conclusions of this evaluation will be reviewed with AEC.

BASES:

3.6.F and 4.6.F

Jet Pump Flow Mismatch

The LPCI loop selection logic has been previously described in the Pilgrim Nuclear Power Station FSAR. For some limited low probability accidents with the recirculation loop operating with large speed differences, it is possible for the logic to select the wrong loop for injection. For these limited conditions the core spray itself is adequate to prevent fuel temperatures from exceeding allowable limits. However, to limit the probability even further, a procedural limitation has been placed on the allowable variation in speed between the recirculation pumps.

The licensee's analyses indicate that above 80% power the loop select logic could not be expected to function at a speed differential of 15%. At or below 80% power the loop select logic would not be expected to function at a speed differential of 20%. This specification provides a margin of 5% in pump speed differential before a problem could arise. If the reactor is operating on one pump, the loop select logic trips that pump before making the loop selection.

Specification 3.6.F allows 30 minutes to correct a mismatch in recirculation pump speeds in order to take manual control of the recirculation pump MG set scoop tube positioner in the event that its control system should fail.