



Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, MA 02360

March 22, 2006

Michael A. Balduzzi
Site Vice President

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555-0001

SUBJECT: Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
Docket No. 50-293
License No. DPR-35

Revision to License Amendment Request,
Single Recirculation Loop Operation (TAC No. MC4333)

Reference: 1. Entergy Letter, 2.04.074, License Amendment Request, Single loop
Operation, dated September 2, 2004. (TAC No. MC4333)

LETTER NUMBER: 2.06.024

Dear Sir or Madam:

In Reference 1, Entergy Nuclear Operations, Inc. (Entergy) submitted a proposed license amendment to revise the Pilgrim Station Operating License and Technical Specifications to allow continued plant operation with a single recirculation loop in service.

Discussions with the NRC staff during a teleconference held on March 20, 2006, determined clarification to the technical specifications which address APRM flow biased setpoints would improve future understanding of single loop operating requirements. As discussed, the revised technical specifications are enclosed.

The information contained in this letter does not invalidate the no significant hazard conclusions previously submitted in Reference 1. There are no commitments contained in this letter.

If you have any questions or require additional information, please contact Bryan Ford at (508) 830-8403.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 22nd day of March, 2006.

Sincerely,

A handwritten signature in cursive script that reads "Michael A. Balduzzi".

Michael A. Balduzzi

Enclosure (2 pages):
Revised note 15 for TS Table 3.1.1; and
Revision to requested change to TS 3.6.F

A001

CC:

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Enclosure to Letter 02.06.024

**Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station**

Mark-ups of specific technical specifications:

Note 15 to TS Table 3.1.1

and

Revision of proposed change to TS 3.6.F

(Total of 2 pages enclosed)

NOTES FOR TABLE 3.1.1 (Cont)

2. Permissible to bypass, with control rod block, for reactor protection system reset in refuel and shutdown positions of the reactor mode switch.
3. Permissible to bypass when reactor pressure is <576 psig.
4. Permissible to bypass when turbine first stage pressure is less than \leq 112 psig.
5. IRM's are bypassed when APRM's are onscale and the reactor mode switch is in the run position.
6. The design permits closure of any two lines without a scram being initiated.
7. When the reactor mode switch is in the Refuel position, the reactor vessel head is removed, and control rods are inserted in all core cells containing one or more fuel assemblies, these scram functions are not required.
8. Not required to be operable when primary containment integrity is not required.
9. Not required while performing low power physics tests at atmospheric pressure during or after refueling at power levels not to exceed 5 MW(t).
10. Not required to be operable when the reactor pressure vessel head is not bolted to the vessel.
11. Deleted
12. Deleted
13. An APRM will be considered inoperable if there are less than 2 LPRM inputs per level or there is less than 50% of the normal complement of LPRM's to an APRM.
14. Deleted
15. The APRM high flux trip level setting shall be as specified in the CORE OPERATING LIMITS REPORT, but shall in no case exceed 120% of rated thermal power.
16. The APRM (15%) high flux scram is bypassed when in the run mode.
17. The APRM flow biased high flux scram is bypassed when in the refuel or startup/hot standby modes.
18. Deleted.

for the flow bias function

The APRM high flux trip level setting

Insert for TS 3.6.F – Recirculation Loops Operating

F. Recirculation Loops Operating

During operation in the Run and Startup Modes, at least one recirculation pump shall be operating.

- 1. Whenever both recirculation pumps are in operation, pump speeds shall be maintained within 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. Whenever a single recirculation loop is operating, the following limits are applied when the associated LCO is applicable:**
 - a) LCO 3.11.A, "Average Planar Linear Heat Generation Rate (APLHGR)," single loop operation limits specified in the COLR,**
 - b) LCO 3.11.C, "Minimum Critical Power Ratio (MCPR)," single loop operation limits specified in the COLR, and**
 - c) LCO 3.1, "Reactor Protection System," Average Power Range Monitor High Flux function, trip level settings reset for single loop operation per Table 3.1.1.**
- 3. If the requirements of Specification 3.6.F.1 or 3.6.F.2 are not met, restore compliance within 24 hours. If compliance is not restored or with no recirculation pumps in operation the reactor shall be in Hot Shutdown within 12 hours.**

for the flow bias function