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W3F1-2006-0037

July 18, 2006

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

Subject: Technical Specification Bases Update to the NRC for the Period
November 1, 2005 through July 1, 2006
Waterford Steam Electric Station, Unit 3
Docket No. 50-382
License No. NPF-38

Dear Sir or Madam:

Pursuant to Waterford Steam Electric Station Unit 3 Technical Specification 6.16, Entergy Operations, Inc. (EOI) hereby submits an update of all changes made to Waterford 3 Technical Specification Bases since the last submittal per letter W3F1-2005-0062, dated December 1, 2005. This TS Bases update satisfies the requirement listed in 10 CFR 50.71(e).

There are no commitments associated with this submittal. Should you have any questions or comments concerning this submittal, please contact Ron Williams at (504) 739-6255.

Very truly yours,

A handwritten signature in black ink, appearing to read "Robert J. Murillo".

RJM/RLW/cbh

Attachment

Waterford 3 Technical Specification Bases Revised Pages

A001

cc: (w/Attachments)

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**ATTACHMENT 1
To W3F1-2006-0037**

Waterford 3 Technical Specification Bases Revised Pages

T.S. Bases Change No.	Implementation Date	Affected TS Bases Pages	Topic of Change
45	3/1/2006	Page B 3/4 5-3	Change No. 45 to TS Bases section 3/4.5.4 Refueling Water Storage Pool (RWSP) was implemented by ER-W3-2006-0057-000. TS Bases Section 3/4.5.4 was changed to more accurately state the RWSP 50°F minimum temperature limit is the limit assumed in the accident analyses with the TS operating limit conservatively specified at 55°F indicated to protect the 50°F analytical limit.

TECHNICAL SPECIFICATION BASES
CHANGE NO. 45 REPLACEMENT PAGE

(1 page)

Replace the following page of the Waterford 3 Technical Specification Bases with the attached page. The revised page is identified by Change Number 45 and contains the appropriate DRN number and a vertical line indicating the areas of change.

Remove

Page B 3/4 5-3

Insert

Page B 3/4 5-3

EMERGENCY CORE COOLING SYSTEMS

BASES

3/4.5.4 REFUELING WATER STORAGE POOL (RWSP)

The OPERABILITY of the refueling water storage pool (RWSP) as part of the ECCS also ensures that a sufficient supply of borated water is available for injection by the ECCS in the event of a LOCA. The limits on RWSP minimum volume and boron concentration ensure that (1) sufficient water is available within containment to permit recirculation cooling flow to the core, and (2) the reactor will remain subcritical in the cold condition following mixing of the RWSP and the RCS water volumes with all CEAs inserted except for the most reactive control assembly. These assumptions are consistent with the LOCA analyses.

→(DRN 04-1243, Ch. 38)

The minimum contained borated water volume limit, 83% indicated, includes an allowance for water not usable because of pool discharge line location, other physical characteristics, and instrument uncertainty. The safety analysis assumes an available volume of 383,000 gallons which is bounded by the 83% level indicated.

←(DRN 04-1243, Ch. 38)

The lower limit on contained water volume, the specific boron concentration and the physical size (approximately 600,000 gallons) of the RWSP also ensure a pH value of between 7.0 and 11.0 for the solution recirculated within containment after a LOCA. This pH band minimizes the evolution of iodine and minimizes the effect of chloride and caustic stress corrosion on mechanical systems and components.

→(DRN 06-188, Ch. 45)

The maximum limit on the RWSP temperature ensures that the assumptions used in the containment pressure analysis under design base accident conditions remain valid and avoids the possibility of containment overpressure. A RWSP minimum temperature of 50°F is the analytical limit assumed in the accident analyses. The TS minimum temperature of 55°F is specified to protect this analytical limit.

←(DRN 06-188, Ch. 45)