



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

February 28, 2001
NOC-AE-01001049
File No.: G21.02.01
10CFR50.90

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project
Unit 2
Docket No. STN 50-499

Change to Supplement to Proposed Technical Specification 3/4.4.5 Amendment (TAC No. MA8271)

Reference: Letter, J.J. Sheppard to NRC Document Control Desk, Supplement to Proposed Amendment to South Texas Project Technical Specification 3/4.4.5 - Modify Acceptance Criteria for Repair of Steam Generator Tubes at Certain Intersections of Tubes and Tube Support Plates (TAC No. MA8271), NOC-AE-01000997, dated January 24, 2001

In accordance with an NRC request, STP Nuclear Operating Company (STPNOC) submits herein a change to the Technical Specification revision proposed in the referenced letter regarding application of 3-volt alternate repair criteria for Unit 2 steam generators. This change adds a requirement in Technical Specification 4.4.5.4.a.11.g) for NRC approval if certain indications are found during steam generator inspection. No revision is necessary to the "Determination of No Significant Hazards Consideration" submitted in the referenced letter and the conclusion that the alternate repair criteria present no significant hazards remains valid. Likewise, the determination submitted in the referenced letter that the change satisfies the criteria of 10CFR51.22(c)(9) for categorical exclusion from environmental assessment remains valid.

The Plant Operations Review Committee and the Nuclear Safety Review Board have reviewed and approved the revised change package.

In accordance with 10CFR50.91(b), STPNOC is providing a copy of this letter and its attachments to the State of Texas.

If there are any questions regarding this submittal, please contact Mr. Mark Kanavos, Manager, Steam Generator Replacement Project Engineering & Fabrication, at (361) 972-7181.

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

J. J. Sheppard
Vice President,
Engineering & Technical Services

Attachments

ADD1

STI-31243851

cc:

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Houston, TX 77251

C. A. Johnson/R. P. Powers
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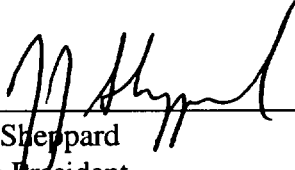
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)		
)		
STP Nuclear Operating Company)	Docket No.	50-499
)		
South Texas Project)		
Unit 2)		

AFFIDAVIT

I, J. J. Sheppard, being duly sworn, hereby depose and state that I am Vice President, Engineering & Technical Services, of STP Nuclear Operating Company; that I am duly authorized to sign and file with the Nuclear Regulatory Commission the attached change to the proposed Technical Specification revision to modify acceptance criteria for certain steam generator tubes; that I am familiar with the content thereof; and that the matters set forth therein are true and correct to the best of my knowledge and belief.

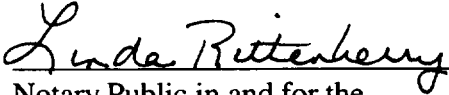


J. J. Sheppard
Vice President,
Engineering & Technical Services

STATE OF TEXAS)
)
COUNTY OF MATAGORDA)

Subscribed and sworn to before me, a Notary Public in and for the State of Texas, this 28th day of February, 2001.





Notary Public in and for the
State of Texas

REACTOR COOLANT SYSTEM

STEAM GENERATORS

SURVEILLANCE REQUIREMENTS (Continued)

- d) If an unscheduled mid-cycle inspection is performed, the mid-cycle repair limits apply instead of the limits identified in 4.4.5.4.a.11.a, 4.4.5.4.a.11.b, and 4.4.5.4.a.11.c. The mid-cycle repair limits will be determined from the equations for mid-cycle repair limits of NRC Generic Letter 95-05, Attachment 2, page 3 of 7. Implementation of these mid-cycle repair limits should follow the same approach as in TS 4.4.5.4.a.11.a, 4.4.5.4.a.11.b, and 4.4.5.4.a.11.c.

Note 1: The lower voltage repair limit is 1.0 volt for 3/4-inch diameter tubing.

Note 2: The upper voltage repair limit (V_{URL}) is calculated for each inspection according to the methodology in Generic Letter 95-05 as supplemented. V_{URL} may differ at the TSPs and flow distribution baffle. Voltage growth rate shall be the larger of the average growth rates experienced in the two prior cycles, but not less than 30% per effective full power year.

Info added
from WCAP
Table 2-2

NRC comment

Bounding
calculation

NRC Editorial

NRC Editorial

NRC
Request

For Unit 2 Cycle 9 only, at the hot leg support plate intersections with support plates C, F, and J, ~~L, and M~~ (as identified in Figure 5.1 of WCAP-15163, Revision 1), the plugging (repair) limit is based on maintaining steam generator tube serviceability as described in e), f), and g) below:

- e) Steam generator tubes, whose degradation is attributed to axially oriented outside diameter stress corrosion cracking within the bounds of the tube support plate with a bobbin voltage less than or equal to 3.0 volts may remain in service.
- f) Steam generator tubes, whose degradation is attributed to axially oriented outside diameter stress corrosion cracking within the bounds of the tube support plate with a bobbin voltage greater than 3.0 volts shall be plugged or repaired regardless of whether or not a rotating pancake coil inspection detects degradation.
- g) If one or more indications in the tube support plate intersections are confirmed by non-destructive examination to extend beyond the edge of the tube support plate, the 3-volt alternate repair criteria shall not be used in any steam generator. Exceptions to this requirement may be allowed for those indications that are determined by the NRC staff to be physically insignificant for the purposes of safety and risk assessment. Approval for the use of the 3-volt alternate repair criteria may be granted by the staff in writing on a one-time basis, following the staff review and consideration of the factors related to the crack extensions that are found.

- 12) Tube Repair refers to a process that reestablishes tube serviceability for Model E steam generators only. Acceptable tube repair will be performed in accordance with the methods described in Westinghouse Reports WCAP-13698, Revision 2, "Laser Welded Sleeves for 3/4 Inch Diameter Tube Feeding-Type and Westinghouse Preheater Steam Generators," April 1995 and WCAP-14653, "Specific Application of Laser Welded Sleeves for South Texas Project Power Plant Steam Generators," June 1996, including post-weld stress relief;

Tube repair includes the removal of plugs that were previously installed as a corrective or preventive measure. A tube inspection per 4.4.5.4.a.9 is required prior to returning previously plugged tubes to service.

REACTOR COOLANT SYSTEMSTEAM GENERATORSSURVEILLANCE REQUIREMENTS (Continued)

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