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ULNRC- 2368

Gentlemen:

DOCKET NUMBER 50-483
CALLAWAY PLANT
AMENDMENT NUMBER 57

References: 1. ULNRC-2196 dated 4-12-90
2. ULNRC-2244 dated 7-9-90
3. OL Amendment No. 57 and NRC SER dated 9-20-90

Amendment Number 57 to the Callaway Facility Operating License No. NPF-30 approved Technical Specification changes to allow the replacement of the resistance temperature detector (RTD) bypass system with an RTD/thermowell system mounted directly into the hot and cold legs of the reactor coolant system (RCS). Reference 1 submitted the original amendment application. Reference 2 supplemented the setpoint calculations of Reference 1 with an updated RCS flow measurement uncertainty calculation. Reference 2 also committed to compare post-modification calorimetric data against the most recent pre-modification calorimetric data to assess the effects of RTD bypass elimination on T-Hot at Callaway.

The requested information is attached. With regard to the other commitments discussed in the Reference 3 SER, both the active and spare elements of the new dual element Weed RTDs were response time tested using the Loop Current Step Response (LCSR) methodology after the RTDs were installed and one newly calibrated RTD will be installed at Refuel 6 (in the fall of 1993), and alternating refuelings thereafter, to ensure that RTD drift remains random in nature (i.e., not in the same direction).

If you have any questions on the attachment, please contact us.

Very truly yours,

Donald F. Schnell

GYY/dls
Attachment

A001

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COMPARISON OF RCS TEMPERATURE INDICATION
PRE & POST RTD BYPASS LOOP ELIMINATION

6-16-89 Pre-modification (taken at 99.8% power)

	LOOP 1	LOOP 2	LOOP 3	LOOP 4
T-Hot	617.2°F	617.5°F	615.9°F	616.3°F
T-Cold	558.4°F	558.1°F	558.6°F	557.6°F

Average T-Hot = 616.7°F

Average T-Cold = 558.2°F

1-22-91 Post-modification (taken at 99.6% power)

	LOOP 1	LOOP 2	LOOP 3	LOOP 4
T-Hot	618.5°F	616.0°F	618.1°F	616.7°F
T-Cold	558.7°F	557.9°F	558.9°F	557.6°F

Average T-Hot = 617.3°F

Average T-Cold = 558.3°F

During the meeting held at NRC offices on July 20, 1990 to discuss RTD Bypass Elimination, slides were presented depicting the effect on T-Hot of the RTD Bypass Elimination at Salem Units 1 and 2. The change in T-Hot was -0.12°F and +0.48°F for Units 1 and 2, respectively. The former was stated by PSE&G and ABB/CE to be well within the accuracy of the data. The latter was stated by PSE&G and ABB/CE to be within the accuracy of the calorimetric. Similar conclusions can be drawn for Callaway as were drawn for Salem Unit 2.