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Callaway Plant

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June 8, 2000

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Stop P1-137
Washington, DC 20555-0001



ULNRC-4264

Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
FACILITY OPERATING LICENSE NPF-30
SPECIAL REPORT 2000-02
10 METER WIND SPEED, 60 METER WIND SPEED AND AIR
TEMPERATURE DELTA T INSTRUMENTATION INOPERABLE FOR
GREATER THAN 7 DAYS DUE TO
INAPPROPRIATE TEST METHODOLOGY**

This Special Report is submitted in accordance with Final Safety Analysis Report 16.3.3.3 action statement (a). The 10 meter wind speed, 60 meter wind speed and the air temperature Delta T instrumentation were inoperable for more than 7 days due to inappropriate methodology in the test procedures.

A handwritten signature in black ink, appearing to read "R. D. Affolter".

R. D. Affolter
Manager, Callaway
Plant

RDB/MKD/mib
Enclosure

Handwritten initials "JED2" in black ink, located in the bottom right corner of the page.

ULNRC-4264
Mary Binkholder
Page 2

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SPECIAL REPORT 2000-02
10 METER WIND SPEED, 60 METER WIND SPEED AND AIR TEMPERATURE
DELTA T INSTRUMENTATION INOPERABLE FOR GREATER THAN 7 DAYS
DUE TO INAPPROPRIATE TEST METHODOLOGY

This report is submitted in accordance with Final Safety Analysis Report (FSAR) 16.3.3.3 action statement (a) which states: "With one or more required meteorological monitoring channels inoperable for more than 7 days, prepare and submit a Special Report to the Commission within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to OPERABLE status."

On 5/8/2000, a system engineer determined that past test methods may not have been adequate to ensure operability of meteorological (MET) tower instrumentation. FSAR 16.3.3.3.1 requires that the MET monitoring instrumentation channels be demonstrated OPERABLE by the performance of the CHANNEL CHECK and CHANNEL CALIBRATION. It was not apparent that Channel calibrations had been conducted properly.

Further investigation revealed that the 10 Meter Wind Speed, the 60 Meter Wind Speed and the Air Temperature Delta T surveillance procedures do not meet the requirements of a Channel Calibration. Tolerances called out in procedures for recorder and computer points do not include the associated sensor for both 10-Meter and 60-Meter Wind Speed. For Air Temperature Delta T, the procedure does not take into account the total loop inaccuracy, because it does not include the thermistor. In addition, thermistors are not calibrated to vendor specifications.

Past surveillance results were reviewed to determine when MET tower instrumentation was inoperable.

- The 10-Meter Wind Speed exceeded the allowed tolerance during the performance of ISL-RD-00S10 on 3-18-99. This was corrected during a subsequent surveillance on 8-31-99 and has remained correct since.
- The 60-Meter Wind Speed exceeded the allowed tolerance during the performance of ISL-RD-00S60 on 3-14-2000. This was corrected on 5-11-2000.
- The Air Temperature Delta T exceeded the allowed tolerance during the performance of ISL-RD-ODT10 on 3-10-2000. This was corrected on 5-5-2000.

The failure to adequately perform these channel calibrations is attributable to procedure inaccuracies. The problems were not determined earlier due to a lack of understanding of channel calibration methods. The procedure inadequacies have existed since receipt of full power license, and it is suspected that each of the above instruments may have been inoperable prior to the dates listed above. However, each instrument is currently operable.

The associated procedures (ISL-RD-00S10, ISL-RD-00S60 and ISL-RD-ODT10) will be revised to include all channel calibration information. The revisions will be completed prior to next performance of the surveillances.