

August 8, 2000

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



ULNRC-4289

Gentlemen:

**DOCKET NUMBER 50-483  
CALLAWAY PLANT UNIT 1  
UNION ELECTRIC CO.  
FACILITY OPERATING LICENSE NPF-30  
SPECIAL REPORT 2000-003  
LIQUID WASTE DISCHARGE EXCEEDS 2% OF 10CFR50  
APPENDIX I GUIDELINES WITHOUT FULL UTILIZATION  
OF THE LIQUID RADWASTE TREATMENT SYSTEM**

The enclosed Special Report is submitted in accordance with Final Safety Analysis Report action statement 16.11.1.4.I to report a condition in which liquid waste discharges exceeded 2% of 10CFR50 Appendix I guidelines within a 31 day period. During this timeframe, full utilization of the Liquid Radwaste Treatment System was not achievable.

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

R. D. Affolter  
Manager, Callaway Plant

RDA/mdhu

Enclosure

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**SPECIAL REPORT 2000-003**  
**LIQUID WASTE BEING DISCHARGED IN EXCESS OF 0.06 MREM**  
**WHOLE BODY WITH THE LIQUID RADWASTE SYSTEMS NOT BEING**  
**FULLY UTILIZED**

This Report is submitted in accordance with Final Safety Analysis Report (FSAR) action statement 16.11.1.4.I. The basis for this requirement is Callaway Plant Technical Specification 5.5.4(f).

On July 7, 2000, the projected dose from liquid effluents discharged to unrestricted areas exceeded 2% of the guidelines of Appendix I to 10 CFR 50 for whole body dose while appropriate portions of the Liquid Radwaste Treatment System were unavailable.

In accordance with FSAR 16.11.1.4.1.b, the installed Liquid Radwaste Treatment System was OPERABLE by maintaining the dose from liquid effluents within the limits of FSAR 16.11.1.1 and 16.11.1.2.

FSAR 16.11.1.4.I requires the following actions:

*With radioactive liquid waste being discharged in excess of 0.06 mrem whole body or 0.2 mrem to any organ in a 31 day period, and the Liquid Radwaste Treatment Systems are not being fully utilized, prepare and submit to the Commission within 30 days a Special Report that includes the following information:*

- 1. Explanation of why liquid radwaste was being discharged without treatment, identification of any inoperable equipment or subsystems, and the reason for the inoperability.*

On June 9, 2000 the recirculating pump seal on the Secondary Liquid Waste Evaporator (SLWE) used to process primary drains failed and made the SLWE inoperable.

During the time the SLWE was out of service a vendor filter/demineralization skid was installed to treat the water. All liquid effluents were treated to remove radioactivity prior to release. However, because of a high radioactive cesium source term the installed skid was not able to maintain discharges below 2% of the guidelines of Appendix I to 10 CFR 50.

- 2. Action(s) taken to restore the inoperable equipment to OPERABLE status.*

Engineering and maintenance support was increased to expedite repair of the SLW evaporator.

The SLW evaporator was returned to service on July 24, 2000. At that time appropriate portions of the radwaste treatment system were being fully utilized to reduce the release of radioactivity to unrestricted areas and full compliance with the requirements of Callaway Plant Technical Specification 5.5.4(f) and FSAR 16.11.1.4.I was achieved.

3. *Summary description of action(s) taken to prevent a recurrence.*

During repair of the SLWE pump seal, a new type of seal was installed that will expedite future repairs.