

Union Electric

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March 11, 2003

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

Ladies and Gentlemen:

ULNRC-04819

**DOCKET NUMBER 50-483  
CALLAWAY PLANT UNIT 1  
UNION ELECTRIC CO.  
FACILITY OPERATING LICENSE NPF-30  
RESULTS OF CHEMICAL ANALYSIS OF REACTOR VESSEL HEAD DEBRIS  
FOUND DURING THE BARE METAL EXAMINATION IN REFUEL 1**

Ref: ULNRC-04788, dated December 20, 2002

In the reference letter identified above Callaway committed to providing a follow-up letter summarizing the results of chemical analysis of debris. This debris was identified on the reactor vessel head during the bare metal visual examination performed during Refuel 12 (Fall 2002). ULNRC-04788 stated that the metallic portion of the debris appeared to be an artifact from construction, and based this conclusion on several observations. The observations included the magnetic nature of the debris, the isolated environment under the insulation, and the entombment of debris on penetration 28 that dated the debris to the 1992 era.

A sample of the debris was sent to NWT Corporation for chemical analysis. Examination at the NWT laboratory concluded that the metallic portion of the debris was consistent with carbon steel as opposed to stainless steel. NWT tested for boron and found that there was not enough boron present to be detectable. Additionally, oil and glass were noted to be components of the debris.

As was concluded in ULNRC-04788, Callaway's conclusion remains that the debris is an artifact from construction and is not a result of active wastage of the reactor vessel head, or any other pressure boundary component. If you have any questions, or would like to review the report from NWT Corporation, please contact me at (573) 676-8190 or Mr. Dave Shafer, Superintendent – Licensing at (314) 554-3104.

Very truly yours,

*David Shafer*  
for John D. Blosser  
Manager, Regulatory Affairs

BFH/mlo  
Enclosure

← Rec'd w/out Enclosure  
JCD 3/19/03

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