

**UNION
ELECTRIC**

Donald F. Schnell
Senior Vice President
Nuclear

December 12, 1991

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station P1-137
Washington, D.C. 20555

ULNRC- 2532

Gentlemen:

DOCKET NUMBER 50-483
CALLAWAY PLANT - CYCLE 5
CORE OPERATING LIMITS REPORT

- References: 1) ULNRC-2323 dated November 14, 1990
2) ULNRC-2360 dated January 31, 1991
3) ULNRC-2379 dated March 19, 1991
4) ULNRC-2513 dated November 13, 1991

Reference 1 transmitted the Callaway Plant Cycle 5 Core Operating Limits Report (COLR). References 2 and 3 revised the W(Z) functions and transmitted the updated W(Z) curves to NRC, respectively, as Revision 1 of the Callaway Cycle 5 COLR.

Reference 4 provided revisions to Figure 2 and Section 2.1.1 of the Callaway Cycle 5 COLR, representing Revisions 2 and 3 of the COLR.

Attached please find Revisions 4 and 5 to Sections 2.1.1 and 2.1.2 of the COLR. Revision 5 represents the latest approved values for the end of cycle life (EOL) Moderator Temperature Coefficient (MTC) limit and for the 300 ppm MTC surveillance limit. Revision 4 represents interim changes to these same limits, later superseded by the Revision 5 values. Revision 4 is attached for completeness only.

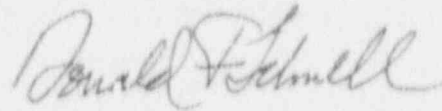
The Revision 4 MTC limit changes were a result of the utilization of existing FSAR Chapter 15 analysis margin. The Revision 5 MTC limit changes required evaluations and sensitivity studies of the effects of using a more positive Moderator Density

Aool
11

Coefficient (MDC) in the FSAR Chapter 15 analyses. It was confirmed that the results presented in the FSAR remain valid. This will be documented in the next annual FSAR update and 10CFR50.59 summary report.

Should you have any questions concerning this information, please contact us.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Donald F. Schnell".

Donald F. Schnell

GGY/dls

Attachment

cc: T. A. Baxter, Esq.
Shaw, Pittman, Potts & Trowbridge
2300 N. Street, N.W.
Washington, D.C. 20037

Dr. J. O. Cermak
CFA, Inc.
18225-A Flower Hill Way
Gaithersburg, MD 20879-5334

R. C. Knop
Chief, Reactor Project Branch 1
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Bruce Bartlett
Callaway Resident Office
U.S. Nuclear Regulatory Commission
RR#1
Steedman, Missouri 65077

J. R. Hall (2)
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
1 White Flint, North, Mail Stop 13E21
11555 Rockville Pike
Rockville, MD 20852

Manager, Electric Department
Missouri Public Service Commission
P.O. Box 360
Jefferson City, MO 65102