One Ameren Plaza | 1901 Chouteau Avenue PO Box 66149 St. Louis, MO 63166-6149 314.621.3222

January 13, 2000

U. S. Nuclear Regulatory Commission Attn: Document Control Desk Mail Station P1-137 Washington, D.C. 20555-0001

Gentlemen:

ULNRC-04176 TAC No. MA 3954



CALLAWAY PLANT UNION ELECTRIC COMPANY DOCKET NUMBER 50-483 AMENDMENT NO. 132 (Approval of use of Electrosleeves)

Reference: Amendment 132 to Callaway Facility Operating License NPF-30 dated May 21, 1999

On May 21, 1999, Technical Specification Amendment No. 132 revised TS 4.4.5.4, Table 4.4-3, and the associated Bases to allow the repair of Callaway steam generator tubes with the Electrosleeve tube repair method. Technical Specification 4.4.5.4(a)(10), "Acceptable tube repairs will be performed by the following processes: Electrosleeving as described in Framatome Technical Report BAW-10219P, Revision 3, 10/98." Section 10.8 of this Technical Report briefly describes the Electrosleeve waste processing system and states that this system treats the spent process solutions and the rinse water to render them non-hazardous.

Because of the limited number of tubes that will be Electrosleeved at Callaway during Refuel 10, it has been determined that it is more economical to ship this spent process solution and rinse water offsite to be processed at a contractor's facility. The waste processing methodology that will be utilized by the contractor is different than that described in the Technical Report. Additionally, neither waste processing methodologies will render the spent process solutions and rinse water non-hazardous, as described in the Technical Report. Theses mixed solutions will be considered hazardous as defined in 40CFR261. Based on reviews performed by AmerenUE and Framatome, these minor deviations from the Technical Report do not impact the Environmental Conditions discussed in section 5.0 of Technical Specification Amendment No. 132, and Electrosleeving continues to be an acceptable and effective steam generator tube repair method.

U. S. Nuclear Regulatory Commission Page 2 January 13, 2000

The following wording more accurately describes the waste processing for Callaway during Refuel 10: "The spent solutions and chemical contaminated rinses generated by Electrosleeving will be processed using the best available technology. This processed waste will be considered as hazardous as defined in 40CFR261." The classification of the processed spent solutions and chemical contaminated rinses as hazardous does not result in a significant increase in the amounts or types of any effluents that may be released offsite, and there is no significant increase in individual or cumulative occupational radiation exposure.

Sixty (60) steam generator tubes were electrosleeved at Callaway Plant during Refuel 10. (Fifty-seven (57) electrosleeves were placed in service). The electrosleeving process generated 8,862 lb. of liquid mixed waste, which was placed in twenty (20) 55-gallon drums. This waste was determined to be a hazardous waste per 40 CFR 261 by testing performed by Mountain States Analytical, Salt Lake City, UT and the Callaway Plant Chemistry Department. A summary of the data on the mixed waste generated is provided in Attachment 1. The twenty (20) 55-gallon drums of mixed waste are currently stored on-site in a portable storage container located in the Radwaste South yard in accordance with an approved nuclear safety evaluation. Waste profiles are in the process of being established with ATG-Richland, WA. An electrosleeving mixed waste shipment is anticipated during the first quarter of 2000.

If you have any questions relating to this please contact us.

Sauch Skofen for Alan C. Passwater

Manager, Corporate Nuclear Services

DS/mlo Attachment

ATTACHMENT 1

Steam Generator Electrosleeving Mixed Waste Generation RF10

Drum #	Weight (lb.)	EPA Waste Code ¹	Electrosleeve Process	LSA or Limited Quantity (LQ)
4161	435	D007	Rinse water	LQ
4164	490	D002, D007	Spent rinse water	LQ
4163	400	D002, D007	Woods, Watts, Strike, rinse water	LSA
4150	420	D002, D007	Woods, Watts, Strike, rinse water	LSA
4225	550	D007	Rinse water	LSA
4226	420	D002, D007	Woods, Strike, rinse water	LSA
4227	630	D002, D007	Woods, Strike, rinse water	LSA
4235	500	D002, D010, D011	Watts	LQ
4233	300	D002, D010, D011	Watts	LQ
4232	550	D002, D010, D011	Watts	LQ
4234	530	D002, D010, D011	Watts	LQ
4231	560	D002, D007	Woods, Strike, rinse water	LSA
4230	550	D007	Rinse water	LSA
4243	425	D010, D011	Watts, rinse water	LQ
4237	400	D010, D011	Watts, rinse water	LQ
4238	400	D010, D011	Watts, rinse water	LQ
4236	270	D010, D011	Watts, rinse water	LQ
4182	320	D002, D007, D010, D011	Lab waste	LQ
4148	320	D002, D007	Spent rinse water	LQ
4149	392	D002, D007	Spent rinse water	LSA

^{1.} D002 indicates the pH was less than or equal to 2 which is the limit in 40 CFR 261.22. D007 indicates that the TCLP value for chromium is 10.5 mg/l, greater than 5 mg/l limit in 40 CFR 261.24. D010 indicates that the TCLP value for selenium is 5.8 mg/l, greater that the 1 mg/l limit in 40 CFR 261.24. D011 indicates that the TCLP value for silver is 8.36 mg/l, greater than the 5 mg/l limit in 40 CFR 261.24.

cc: M. H. Fletcher
 Professional Nuclear Consulting, Inc.
19041 Raines Drive
 Derwood, MD 20855-2432

Regional Administrator
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive
Suite 400
Arlington, TX 76011-8064

Senior Resident Inspector Callaway Resident Office U.S. Nuclear Regulatory Commission 8201 NRC Road Steedman, MO 65077

Mr. Jack Donohew (2)
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
1 White Flint, North, Mail Stop OWFN 4D3
11555 Rockville Pike
Rockville, MD 20852-2738

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

Ron Kucera Department of Natural Resources P.O. Box 176 Jefferson City, MO 65102

Denny Buschbaum TU Electric P.O. Box 1002 Glen Rose, TX 76043

Pat Nugent Pacific Gas & Electric Regulatory Services P.O. Box 56 Avila Beach, CA 93424