Union Electric
Callaway Plant

PO Box 620
Fulton, MO 65251

November 21, 2002

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

ULNRC-04778

Ladies and Gentlemen:

DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
FACILITY OPERATING LICENSE NPF-30
SPECIAL REPORT 2002-04
Inservice Inspection Results for Steam Generator Tube Inspections – Number of Tubes Plugged or Repaired.

This Special Report is submitted in accordance with Technical Specifications (T/S) 5.6.10(a) which states:

> "Within 15 days following the completion of each inservice inspection of steam generator tubes, the number of tubes plugged or repaired in each steam generator shall be reported to the Commission."

The Steam Generator (S/G) Inservice Inspection was completed for all four S/Gs to meet the surveillance requirements of T/S SR 3.4.13.2, "Verify steam generator tube integrity is in accordance with the Steam Generator Tube Surveillance Program." One hundred twenty four (124) tubes were repaired by plugging as a result of the inspection. The tubes repaired (and the method used for each) are identified in the attached tables.

Warren A. Witt
Manager, Callaway Plant

WAW/ewh

Enclosure

IE22
A001

cc: U. S. Nuclear Regulatory Commission (Original and 1 copy)
Attn: Document Control Desk
Mail Stop P1-137
Washington, DC 20555-0001

Mr. Ellis W. Merschoff
Regional Administrator
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

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

Mr. Jack N. Donohew (2 copies)
Licensing Project Manager, Callaway Plant
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Mail Stop 7E1
Washington, DC 20555-2738

Manager, Electric Department
Missouri Public Service Commission
PO Box 360
Jefferson City, MO 65102

Steam Generator A Repair List

ROW	COL	REPAIR		REASON FOR REPAIR	IN-SERVICE
		HOT LEG	COLD LEG		
1	34	PLUGGED	PLUGGED	MVI @ 01C –0.39	NO
11	68	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.12	NO
11	98	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.06	NO
12	64	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.23	NO
12	65	PLUGGED	PLUGGED	SAI @ TSH +0.1	NO
12	99	PLUGGED	PLUGGED	SVI @ TSH +0.07	NO
13	66	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.16	NO
13	75	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.16	NO
14	83	PLUGGED	PLUGGED	SAI @ TSH +0.08	NO
15	48	PLUGGED	PLUGGED	SVI @ 07H +0.26	NO
16	72	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.17	NO
17	43	PLUGGED	PLUGGED	SCI @ TSH –0 1	NO
17	51	PLUGGED	PLUGGED	SAI @ TSH +0.12	NO
17	101	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.06	NO
18	42	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH –6.02	NO
18	44	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –0.96	NO
18	49	PLUGGED	PLUGGED	MAI @ TSH +0.01	NO
18	50	PLUGGED	PLUGGED	SAI @ TSH –0.01	NO
19	42	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.05	NO
19	68	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH +0.24	NO
19	69	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –5 45	NO
20	39	PLUGGED	PLUGGED	SAI @ TSH –0.01	NO
20	50	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.11	NO
20	82	PLUGGED	PLUGGED	SAI @ TSH +0 08	NO
21	45	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –2.3	NO
21	59	PLUGGED	PLUGGED	SAI @ TSH +0.09	NO
21	64	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0 06	NO
22	58	PLUGGED	PLUGGED	SAI @ TSH +0.05	NO
22	72	PLUGGED	PLUGGED	SAI @ TSH +0.07	NO
23	43	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –0.33	NO
23	78	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –7.88	NO
23	84	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.16	NO
23	97	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –8.4	NO
24	80	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.2	NO
24	88	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –5.6	NO
24	103	PLUGGED	PLUGGED	SAI @ TSH +0.1	NO
25	62	PLUGGED	PLUGGED	SAI @ TSH +0.06	NO
25	71	PLUGGED	PLUGGED	MCI @ SBH –1.72	NO*
25	88	PLUGGED	PLUGGED	SAI @ TSH +0 1	NO
25	91	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.00	NO
25	99	PLUGGED	PLUGGED	SAI @ TSH +0.00	NO
26	53	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –2.59	NO
				SAI @ TSH +0.06	NO
26	77	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH +0.11	NO
26	109	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.07	NO
27	60	PLUGGED	PLUGGED	SAI @ TSH +0.05	NO
27	68	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0 07	NO
27	83	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH +0.05	NO

ROW	COL	REPAIR		REASON FOR REPAIR	IN-SERVICE
		HOT LEG	COLD LEG		
27	100	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH +0.14	NO
30	64	PLUGGED	PLUGGED	SAI @ TSH –0.03	NO
31	76	PLUGGED	PLUGGED	SAI @ TSH +0 08	NO
31	101	PLUGGED	PLUGGED	SAI @ TSH +0.13	NO
32	65	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –3.18	NO
32	82	PLUGGED	PLUGGED	SAI @ TSH +0.07	NO
33	74	PLUGGED	PLUGGED	SAI @ TSH +0.08	NO
33	108	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.08	NO
34	73	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –3 53	NO
34	80	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –4.76	NO
34	89	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.05	NO
34	98	PLUGGED	PLUGGED	SAI @ TSH +0.08	NO
37	83	PLUGGED	PLUGGED	SAI @ TSH +0 06	NO
38	88	PLUGGED	PLUGGED	SAI @ TSH +0 05	NO
39	37	PLUGGED	PLUGGED	42% @ AV5 +0.15	NO
				40% @ AV4 +0.00	NO
39	41	PLUGGED	PLUGGED	42% @ AV4 –0.05	NO
39	61	PLUGGED	PLUGGED	SAI @ TSH +0.00	NO
39	83	PLUGGED	PLUGGED	SAI @ TSH +0.04	NO
39	88	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –1.98	NO
39	90	PLUGGED	PLUGGED	SAI @ TSH +0.02	NO
39	92	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.13	NO
41	54	PLUGGED	PLUGGED	SAI @ TSH +0.00	NO
41	82	PLUGGED	PLUGGED	SAI @ TSH +0.06	NO
41	95	PLUGGED	PLUGGED	MAI @ TSH +0.03	NO
42	62	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –0.62	NO
43	36	PLUGGED	PLUGGED	SVI @ TSH +0.03	NO
44	35	PLUGGED	PLUGGED	SVI @ TSH +0.09	NO
44	36	PLUGGED	PLUGGED	SVI @ TSH +0 13	NO
44	59	PLUGGED	PLUGGED	SAI @ TSH +0.05	NO
44	62	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –0.67	NO
44	75	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.09	NO
44	81	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.1	NO
46	48	PLUGGED	PLUGGED	47% @ AV2 +0.00	NO
				41% @ AV3 +0.00	NO
				44% @ AV4 +0.00	NO
46	50	PLUGGED	PLUGGED	MAI @ TSH +0.00	NO
46	61	PLUGGED-STABILIZED	PLUGGED	MAI @ TSH –0.75	NO
				SCI @ TSH –0.74	NO
46	73	PLUGGED	PLUGGED	SAI @ TSH +0.03	NO
47	49	PLUGGED	PLUGGED	SAI @ TSH +0.00	NO
47	50	PLUGGED	PLUGGED	SAI @ TSH +0.01	NO
47	57	PLUGGED	PLUGGED	SVI @ FBH +0.07	NO
48	61	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –0.98	NO
48	70	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.06	NO

ROW	COL	REPAIR		REASON FOR REPAIR	IN-SERVICE
		HOT LEG	COLD LEG		
49	48	PLUGGED	PLUGGED	SAI @ TSH +0.02	NO
49	62	PLUGGED	PLUGGED	SAI @ TSH +0.17	NO
59	67	PLUGGED	PLUGGED	SVI @ 02C +0.13	NO

*Tube 25-71 does not require additional stabilization due to a 12.00" Westinghouse Laser Welded Sleeve installed at the Hot Leg Tube Sheet area

Steam Generator B Repair List

ROW	COL	REPAIR		REASON FOR REPAIR	IN-SERVICE
		HOT LEG	COLD LEG		
12	52	PLUGGED	PLUGGED	SAI @ TSH +0.62	NO
14	104	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.07	NO
29	90	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –1.93	NO
33	77	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –5 41	NO
42	65	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0 09	NO

Steam Generator C Repair List

ROW	COL	REPAIR		REASON FOR REPAIR	IN-SERVICE
		HOT LEG	COLD LEG		
11	68	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –5.22	NO
13	56	PLUGGED	PLUGGED	SAI @ TSH +0.54	NO
13	68	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –5 36	NO
13	69	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –0.08	NO
14	72	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –7.33	NO
15	28	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH –6.45	NO
17	77	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –3.51	NO
				SCI @ TSH –2.69	NO
18	77	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –9 86	NO
				SCI @ TSH –7.09	NO
				MCI @ TSH –6.51	NO
19	63	PLUGGED	PLUGGED	SAI @ TSH +0.02	NO
21	65	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –10.58	NO
21	101	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH –4.25	NO
22	101	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH –7.04	NO
23	84	PLUGGED-STABILIZED	PLUGGED	SAI @ TSH +0.07	NO
27	57	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.12	NO
29	69	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –5.68	NO
30	93	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –6.91	NO
				SCI @ TSH –4.07	NO
36	46	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH –5.10	NO
37	75	PLUGGED	PLUGGED	SAI @ TSH –0.02	NO
47	39	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –0.04	NO

Steam Generator D Repair List

ROW	COL	REPAIR		REASON FOR REPAIR	IN-SERVICE
		HOT LEG	COLD LEG		
5	70	PLUGGED	PLUGGED	SVI @ 03C +0 55	NO
12	73	PLUGGED	PLUGGED	SAI @ TSH +0.06	NO
29	82	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH –7.23	NO
36	43	PLUGGED	PLUGGED	SAI @ TSH –0.01	NO
42	57	PLUGGED-STABILIZED	PLUGGED	MCI @ TSH –5.63	NO
42	89	PLUGGED	PLUGGED	52% @ AV4 +0.00	NO
47	34	PLUGGED	PLUGGED	43% @ AV4 –0.30	NO
50	95	PLUGGED-STABILIZED	PLUGGED	SCI @ TSH +0.04	NO
52	73	PLUGGED	PLUGGED	48% @ AV2 +0.15	NO
				47% @ AV3 +0 20	

SAI	Single Axial Indication
MAI	Multiple Axial Indication
SCI	Single Circumferential Indication
MCI	Multiple Circumferential Indication
SVI	Single Volumetric Indication
MVI	Multiple Volumetric Indication
TSH	Tube Sheet Hot
TSC	Tube Sheet Cold
AV#	Anti-Vibration Bar (where # is the anti-vibration bar number)
O1H	First Support Plate Hot
TSH	Top of Tubesheet Hot
SBH	Bottom of Sleeve Hot