



October 15, 1996

Donald F. Schnell
Senior Vice President
Nuclear

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

Gentlemen:

ULNRC-03472

DOCKET NUMBER 50-483
CALLAWAY PLANT
NRC BULLETIN 96-01

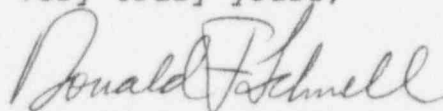
- References: 1) ULNRC-3360, dated April 4, 1996
2) NRC Letter dated September 4, 1996
3) ULNRC-3447 dated September 20, 1996
4) ULNRC-3454 dated September 27, 1996
5) ULNRC-3455 dated September 30, 1996
6) NRC Letter dated October 7, 1996

The referenced letters provided Union Electric's response and NRC's evaluation with respect to Bulletin 96-01, "Control Rod Insertion Problems" for Callaway Plant. The attachment to this letter provides the comparison of the drop times obtained at the end of cycle (EOC) 8 with those at the beginning of cycle (BOC) 8.

All of the drop times obtained at EOC8 are well below the Technical Specification limit of 2.7 seconds. Two assemblies (K78 and K79) that were not scheduled to be drag tested showed slight increases in the time from dashpot entry to turnaround, as compared to BOC8. These two assemblies will be drag tested along with the 21 assemblies for which we committed in the referenced correspondence.

If you have any questions in this matter, please contact us.

Very truly yours,


Donald F. Schnell

Attachment
DES/plr

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Attachment 1

Callaway Cycle 8 Rod Drop Time Data

Assembly ID	RCCA Bank ID	EOC7		EOC8		RCCA Drop Times (sec) BOC8		RCCA Drop Times (sec) EOC8	
		Burnup	BU Share	Burnup	BU Share	Dashpot	Turnaround	Dashpot	Turnaround
K84	A	N/A	N/A	28742	1.32	1.9	2.2	1.9	2.2
K87	A	N/A	N/A	28742	1.32	1.8	2.2	1.9	2.2
K88	A	N/A	N/A	28742	1.32	1.8	2.2	1.8	2.2
K91	A	N/A	N/A	28742	1.32	1.8	2.2	1.9	2.2
K45	B	N/A	N/A	25546	1.17	2.1	2.2	1.9	2.0
K46	B	N/A	N/A	25546	1.17	2.1	2.2	1.9	2.0
K47	B	N/A	N/A	25539	1.17	2.1	2.2	1.9	2.0
K53	B	N/A	N/A	25539	1.17	2.1	2.2	1.9	2.0
K59	B	N/A	N/A	25546	1.17	2.1	2.2	1.9	2.0
K61	B	N/A	N/A	25546	1.17	1.9	2.2	1.9	2.0
K62	B	N/A	N/A	25539	1.17	2.1	2.2	1.9	2.0
K64	B	N/A	N/A	25539	1.17	2.1	2.2	1.9	2.0
K49	C	N/A	N/A	26660	1.22	1.8	2.0	1.9	2.0
K54	C	N/A	N/A	26660	1.22	1.8	2.0	1.9	2.0
K55	C	N/A	N/A	26660	1.22	1.8	2.0	1.9	2.0
K58	C	N/A	N/A	26660	1.22	1.8	2.0	1.9	2.0
K69	C	N/A	N/A	28914	1.33	1.8	2.0	1.9	2.0
K74	C	N/A	N/A	28914	1.33	1.8	2.2	1.9	2.3
K78	C	N/A	N/A	28914	1.33	1.8	2.0	1.9	2.3
K79	C	N/A	N/A	28914	1.33	1.8	2.0	1.9	2.3
H78	D	N/A	N/A	48132	0.94	1.9	2.0	1.9	2.3
J12	D	26285	1.27	47240	0.96	1.9	2.0	1.9	2.1
J19	D	26285	1.27	47240	0.96	1.9	2.0	1.9	2.0
J20	D	26285	1.27	47240	0.96	1.9	2.0	1.9	2.0
J55	D	26285	1.27	47240	0.96	1.9	2.0	1.9	2.0
J14	SA	26801	1.30	38629	0.54	Note 1	2.2	Note 1	2.2
J15	SA	26780	1.30	38614	0.54	Note 1	2.2	Note 1	2.1
J29	SA	26801	1.30	38629	0.54	Note 1	2.2	Note 1	2.2
J30	SA	26801	1.30	38629	0.54	Note 1	2.2	Note 1	2.2
J32	SA	26780	1.30	38614	0.54	Note 1	2.2	Note 1	2.1
J40	SA	26801	1.30	38629	0.54	Note 1	2.2	Note 1	2.1
J44	SA	26780	1.30	38614	0.54	Note 1	2.2	Note 1	2.1
J52	SA	26780	1.30	38614	0.54	Note 1	2.2	Note 1	2.1
K81	SB	N/A	N/A	29122	1.34	Note 1	2.1	Note 1	2.2
K83	SB	N/A	N/A	29116	1.34	Note 1	2.1	Note 1	2.2
K85	SB	N/A	N/A	29122	1.34	Note 1	2.1	Note 1	2.2
K86	SB	N/A	N/A	29122	1.34	Note 1	2.3	Note 1	2.2
K92	SB	N/A	N/A	29116	1.34	Note 1	2.1	Note 1	2.2
K93	SB	N/A	N/A	29116	1.34	Note 1	2.1	Note 1	2.2
K94	SB	N/A	N/A	29122	1.34	Note 1	2.1	Note 1	2.2
K96	SB	N/A	N/A	29116	1.34	Note 1	2.1	Note 1	2.2
K17	SC	N/A	N/A	27683	1.27	Note 1	2.1	Note 1	2.2
K20	SC	N/A	N/A	27683	1.27	Note 1	2.1	Note 1	2.2
K28	SC	N/A	N/A	27683	1.27	Note 1	2.1	Note 1	2.2
K35	SC	N/A	N/A	27683	1.27	Note 1	2.1	Note 1	2.2
K13	SD	N/A	N/A	27676	1.27	Note 1	2.1	Note 1	2.2
K15	SD	N/A	N/A	27676	1.27	Note 1	2.1	Note 1	2.2
K25	SD	N/A	N/A	27676	1.27	Note 1	2.0	Note 1	2.2
K27	SD	N/A	N/A	27676	1.27	Note 1	2.3	Note 1	2.2
K67	SE	N/A	N/A	29334	1.35	Note 1	2.2	Note 1	2.2
K68	SE	N/A	N/A	29334	1.35	Note 1	2.2	Note 1	2.2
K75	SE	N/A	N/A	29334	1.35	Note 1	2.2	Note 1	2.2
K77	SE	N/A	N/A	29334	1.35	Note 1	2.2	Note 1	2.2

Cycle Burnup: 20656

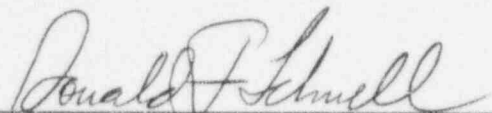
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Note 1: Dashpot times available for Control Banks only

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CITY OF ST. LOUIS)

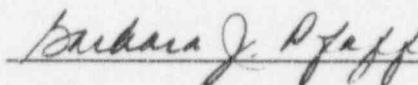
Donald F. Schnell, of lawful age, being first duly sworn upon oath says that he is Senior Vice President-Nuclear and an officer of Union Electric Company; that he has read the foregoing document and knows the content thereof; that he has executed the same for and on behalf of said company with full power and authority to do so; and that the facts therein stated are true and correct to the best of his knowledge, information and belief.

By



Donald F. Schnell
Senior Vice President
Nuclear

SUBSCRIBED and sworn to before me this fifteenth day
of October, 1996.



BARBARA J. PFAFE
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