

June 24, 2008

U. S. Nuclear Regulatory Commission
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Ladies and Gentlemen:

ULNRC-05523



**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
FACILITY OPERATING LICENSE NPF-30
2007 ANNUAL RADIOLOGICAL
ENVIRONMENTAL OPERATING REPORT
Reference: ULNRC-05509, dated April 30, 2008**

Please find enclosed three replacement pages for the referenced 2007 Annual Radiological Environmental Operating Report for Callaway Plant. Each page contains a single corrected number (indicated by the bubble). Correction was required due to typographical error. Attachment 1 provides each page showing the corrected number and Attachment 2 provides clean copy pages.

This revised report is submitted in accordance with Section 5.6.2 of the Technical Specifications and Appendix B to the Callaway Plant Operating License.

If there are any questions, please contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Luke H. Graessle".

Luke H. Graessle
Manager, Regulatory Affairs

DJW/nls

Attachment 1: Pages Showing Markups (Pages C-12, C-22, and C-26)
Attachment 2: Clean Typed Pages (Pages C-12, C-22, and C-26)

ULNRC-05523

June 24, 2008

Page 2

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U.S. Nuclear Regulatory Commission
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Callaway Resident Office
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ANI Account Engineer
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Index and send hardcopy to QA File A160.0761

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Missouri Public Service Commission

ATTACHMENT 1
PAGES SHOWING MARKUPS
(Page C-12, C-22, and C-26)

CALLAWAY

C-2. Drinking well water, Quarterly collections, analyses for gross beta, tritium, iodine-131 and gamma-emitting isotopes.

Units: pCi/L

Location		-WWA-PW-001									
Quarter		1st Qtr.		2nd Qtr.		3rd Qtr.		4th Qtr.			
Lab Code	Req. LLD	CAWW-	72	CAWW-	1903	CAWW-	4168	CAWW-	6797		
Gross Beta	4										
H-3	2000			< 167		< 143		< 174			
I-131	1										
Mn-54	15	< 2.0		< 2.9		< 2.9		< 3.5			
Fe-59	30	< 2.2		< 3.2		< 9.0		< 7.3			
Co-58	15	< 1.7		< 1.6		< 3.9		< 5.4			
Co-60	15	< 2.8		< 3.5		< 4.1		< 3.7			
Zn-65	30	< 3.8		< 1.9		< 4.0		< 4.7			
Zr-Nb-95	15	< 3.7		< 3.0		< 3.4		< 3.6			
Cs-134	15	< 2.6		< 3.1		< 3.8		< 3.5			
Cs-137	18	< 4.1		< 3.6		< 5.0		< 5.2			
Ba-La-140	15	< 3.7		< 3.9		< 7.1		< 6.7			

C-4, Ground and Surface Water, Analysis for tritium and gamma-emitting isotopes.

Location	Collection Date	Concentration (pCi/L)						
		H-3	Mn-54	Co-58	Co-60	Zn-65	Cs-134	Cs-137
MW-001	10/10/2007	< 180	-	-	-	-	-	-
MW-002	10/24/2007	< 180	-	-	-	-	-	-
MW-003	10/24/2007	< 180	-	-	-	-	-	-
MW-009	10/24/2007	< 180	-	-	-	-	-	-
MW-010	10/24/2007	< 180	-	-	-	-	-	-
MW-501	10/24/2007	< 180	-	-	-	-	-	-
MW-502	10/10/2007	< 180	-	-	-	-	-	-
M-2	10/10/2007	< 180	-	-	-	-	-	-
M-7	10/25/2007	< 180	-	-	-	-	-	-
UHS POND	10/9/2007	< 180	-	-	-	-	-	-
UNIT 2 POND	10/11/2007	< 180	-	-	-	-	-	-
GROUNDWATER SUMP	10/11/2007	< 187	< 2.1	< 2.7	< 1.9	< 3.5	< 2.1	< 2.5
MW-936	10/11/2007	< 176	< 3.1	< 2.1	< 2.2	< 4.3	< 3.6	< 3.3
MW-937A	10/11/2007	< 176	< 2.1	< 2.1	< 2.7	< 3.4	< 2.2	< 2.8
MW-937B	10/9/2007	< 179	< 1.8	< 3.6	< 1.1	< 6.7	< 3.3	< 3.0
MW-937C	10/11/2007	< 176	< 2.9	< 2.2	< 2.1	< 4.3	< 2.3	< 3.9
MW-937D	10/11/2007	< 176	< 1.9	< 3.6	< 1.2	< 4.6	< 2.6	< 2.5
MW-937E	10/11/2007	< 179	< 3.1	< 2.2	< 2.7	< 6.9	< 2.0	< 2.6
MW-937F	10/9/2007	< 176	< 2.5	< 1.6	< 2.6	< 2.4	< 2.3	< 2.6
MW-004	10/23/2007	< 175	< 3.5	< 3.4	< 4.1	< 6.2	< 4.8	< 5.4
MW-005	10/23/2007	< 175	< 6.1	< 4.6	< 4.5	< 10.3	< 4.2	< 5.0
MW-006	10/23/2007	< 175	< 3.4	< 3.3	< 5.2	< 3.7	< 8.0	< 3.5
MW-007	10/24/2007	< 175	< 3.7	< 6.3	< 3.2	< 10.4	< 5.5	< 3.9
MW-008	10/24/2007	< 175	< 3.9	< 3.5	< 3.9	< 6.5	< 8.0	< 3.0
MW-012	10/23/2007	< 175	< 3.1	< 4.9	< 2.6	< 5.0	< 4.7	< 7.1
GW1 1 -SOL-STA 104 + 90, 21 LT	11/8/2007	429 ± 113	-	-	-	-	-	-
GW1 2 -SOL-STA 104 + 20, 46 LT	11/8/2007	367 ± 111	-	-	-	-	-	-
GW1 3 -SOL-STA 103 + 50, 69 LT	11/8/2007	< 172	-	-	-	-	-	-
BG -SOL-STA 101 + 80, 210 RT	11/8/2007	< 172	-	-	-	-	-	-
GWA-SOL-STA 105 + 24, 300 LT	11/9/2007	< 160	-	-	-	-	-	-
GWA-SOL-STA 105 + 24, 300 LT	11/9/2007	< 160	-	-	-	-	-	-
FMW-5	11/8/2007	320 ± 103	-	-	-	-	-	-
MW-015	11/8/2007	< 160	-	-	-	-	-	-
9B INV 1 GW-A/B	11/9/2007	< 172	< 4.9	< 5.7	< 4.3	< 12.0	< 7.4	< 6.3
9B INV 2 GW-A/B	11/9/2007	< 172	< 4.5	< 4.9	< 3.5	< 7.9	< 4.7	< 4.9
9B INV 3 GW-A/B	11/9/2007	< 172	< 5.5	< 6.0	< 5.8	< 5.3	< 6.3	< 4.6
9B INV 4 GW-A/B	11/9/2007	< 172	< 3.3	< 5.2	< 4.1	< 6.8	< 5.4	< 5.7
MW-004	11/19/2007	< 179	< 3.8	< 1.6	< 2.2	< 7.8	< 3.8	< 3.3
MW-005	11/19/2007	< 179	< 3.5	< 2.4	< 1.2	< 2.7	< 3.4	< 3.7
MW-006	11/19/2007	< 179	< 3.6	< 2.7	< 1.3	< 4.0	< 3.2	< 3.9
MW-007	11/19/2007	< 179	< 2.5	< 5.5	< 4.4	< 6.9	< 3.8	< 4.3
MW-008	11/19/2007	< 179	< 4.3	< 2.7	< 2.2	< 6.2	< 3.8	< 3.5
MW-012	11/19/2007	< 179	< 2.0	< 1.9	< 2.0	< 2.6	< 2.4	< 3.6
MW-502	11/19/2007	< 182	-	-	-	-	-	-
MW-501	11/20/2007	< 182	-	-	-	-	-	-
105 + 00, 400 LT	12/3/2007	< 188	-	-	-	-	-	-

C-6, Soil, Analyses for tritium and gamma-emitting isotopes.

Location	Collection Date	H-3 (pCi/L)	Concentration (pCi/kg dry)				
			Co-58	Co-60	Cs-134	Cs-137	
STA 72+82 70' LT (MH-2)	D-3 10-15'	2/7/2007	< 162	< 16.9	< 13.5	< 12.7	< 6.7
STA 72+82 70' LT (MH-2)	D-4 15-20'	2/7/2007	< 162	< 23.2	< 25.8	< 42.3	< 28.1
STA 72+82 70' LT (MH-2)	D-5 20-25'	2/7/2007	238 ± 91	< 13.7	< 17.8	< 12.4	< 8.1
STA 72+80 25' LT (MH-2)	E-1 0-5'	2/7/2007	< 181	< 16.2	< 13.3	< 16.8	< 21.2
STA 72+80 30' LT (MH-2)	F-1 0-5'	2/7/2007	< 162	< 27.2	< 24.5	< 36.5	< 33.4
STA 72+80 30' LT (MH-2)	F-2 5-10'	2/7/2007	< 165	< 7.1	< 11.7	< 12.4	< 15.0
STA 72+80 30' LT (MH-2)	F-3 10-15'	2/7/2007	< 165	< 30.5	< 22.1	< 41.1	< 20.3
STA 72+80 30' LT (MH-2)	F-4 15-20'	2/7/2007	< 162	< 15.6	< 16.6	< 13.6	< 17.4
STA 72+80 30' LT (MH-2)	F-5 20-25'	2/7/2007	< 181	< 18.2	< 16.0	< 28.8	< 19.9
STA 73+57 57' RT (MH-2)	G-1 0-5'	2/7/2007	497 ± 108	< 16.2	< 15.2	< 14.6	< 16.2
STA 73+57 57' RT (MH-2)	G-2 5-10'	2/7/2007	< 167	< 17.0	< 12.1	< 12.4	< 11.3
STA 73+57 57' RT (MH-2)	G-3 10-15'	2/7/2007	< 167	< 12.9	< 8.8	< 13.5	< 21.0
STA 73+57 57' RT (MH-2)	G-4 15-20'	2/7/2007	< 168	< 14.8	< 10.2	< 12.6	< 13.0
STA 73+57 57' RT (MH-2)	G-5 20-25'	2/7/2007	229 ± 97	< 15.2	< 10.8	< 13.9	< 13.7
STA 75+82 26' RT (MH-3A)	H-1 0-5'	2/8/2007	< 181	< 11.5	< 11.2	< 12.0	86.4 ± 36.1
STA 75+82 26' RT (MH-3A)	H-2 5-10'	2/8/2007	< 167	< 28.0	< 12.2	< 37.3	< 24.7
STA 75+82 26' RT (MH-3A)	H-3 10-15'	2/8/2007	< 181	< 23.5	< 25.2	< 31.7	< 19.8
STA 75+93 37' LT (MH-3A)	I-1 0-5'	2/8/2007	< 167	< 17.2	< 14.3	< 30.8	< 19.7
STA 75+93 37' LT (MH-3A)	I-2 5-10'	2/8/2007	< 181	< 15.5	< 6.1	< 12.3	< 14.9
STA 75+93 37' LT (MH-3A)	I-3 10-15'	2/8/2007	< 168	< 18.3	< 14.0	< 16.5	< 17.2
STA 75+93 37' LT (MH-3A)	I-4 15-20'	2/8/2007	< 169	< 14.9	< 4.1	< 12.8	< 11.9
STA 75+93 37' LT (MH-3A)	I-5 20-25'	2/8/2007	< 181	< 14.0	< 7.2	< 11.9	< 8.6
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-1 0-5'	2/8/2007	< 167	< 15.6	< 12.6	< 11.5	< 16.8
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-2 5-10'	2/8/2007	< 167	< 17.4	< 10.0	< 12.8	< 12.7
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-3 10-15'	2/8/2007	< 167	< 13.9	< 12.6	< 12.8	< 17.8
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-4 15-20'	2/8/2007	< 167	< 12.5	< 14.0	< 16.9	< 8.5
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-5 20-25'	2/8/2007	< 167	< 13.6	< 14.8	< 14.8	< 16.8
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-1 0-5'	2/8/2007	< 167	< 18.8	< 6.5	< 12.6	< 22.4
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-2 5-10'	2/8/2007	< 167	< 16.5	< 5.1	< 11.1	< 10.6
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-3 10-15'	2/8/2007	< 167	< 13.3	< 10.7	< 13.0	< 13.5
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-4 15-20'	2/8/2007	< 167	< 20.3	< 19.0	< 36.5	< 22.6
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-5 20-25'	2/8/2007	< 169	< 13.4	< 12.4	< 10.6	< 8.4
STA 104+30 100' LT (MH-5)	L-1 0-5'	2/8/2007	< 169	< 13.8	< 6.3	< 14.2	< 19.9
STA 104+30 100' LT (MH-5)	L-2 5-10'	2/8/2007	< 169	< 17.5	< 7.8	< 12.8	< 17.9
STA 104+30 100' LT (MH-5)	L-3 10-15'	2/8/2007	< 169	< 15.4	< 19.0	< 12.8	< 10.8
STA 104+30 100' LT (MH-5)	L-4 15-20'	2/8/2007	< 169	< 15.7	< 9.5	< 13.1	< 15.1

ATTACHMENT 2
CLEAN COPY PAGES
(Page C-12, C-22, and C-26)

CALLAWAY

C-2. Drinking well water, Quarterly collections, analyses for gross beta, tritium, iodine-131 and gamma-emitting isotopes.

Units: pCi/L

Location		-WWA-PW-001							
Quarter		1st Qtr.		2nd Qtr.		3rd Qtr.		4th Qtr.	
Lab Code	Req. LLD	CAWW-	72	CAWW-	1903	CAWW-	4168	CAWW-	6797
Gross Beta	4								
H-3	2000	<	151	<	167	<	143	<	174
I-131	1								
Mn-54	15	<	2.0	<	2.9	<	2.9	<	3.5
Fe-59	30	<	2.2	<	3.2	<	9.0	<	7.3
Co-58	15	<	1.7	<	1.6	<	3.9	<	5.4
Co-60	15	<	2.8	<	3.5	<	4.1	<	3.7
Zn-65	30	<	3.8	<	1.9	<	4.0	<	4.7
Zr-Nb-95	15	<	3.7	<	3.0	<	3.4	<	3.6
Cs-134	15	<	2.6	<	3.1	<	3.8	<	3.5
Cs-137	18	<	4.1	<	3.6	<	5.0	<	5.2
Ba-La-140	15	<	3.7	<	3.9	<	7.1	<	6.7

C-4, Ground and Surface Water, Analysis for tritium and gamma-emitting isotopes.

Location	Collection Date	Concentration (pCi/L)						
		H-3	Mn-54	Co-58	Co-60	Zn-65	Cs-134	Cs-137
MW-001	10/10/2007	< 180	-	-	-	-	-	-
MW-002	10/24/2007	< 180	-	-	-	-	-	-
MW-003	10/24/2007	< 180	-	-	-	-	-	-
MW-009	10/24/2007	< 180	-	-	-	-	-	-
MW-010	10/24/2007	< 180	-	-	-	-	-	-
MW-501	10/24/2007	< 180	-	-	-	-	-	-
MW-502	10/10/2007	< 180	-	-	-	-	-	-
M-2	10/10/2007	< 180	-	-	-	-	-	-
M-7	10/25/2007	< 180	-	-	-	-	-	-
UHS POND	10/9/2007	< 180	-	-	-	-	-	-
UNIT 2 POND	10/11/2007	< 180	-	-	-	-	-	-
GROUNDWATER SUMP	10/11/2007	< 187	< 2.1	< 2.7	< 1.9	< 3.5	< 2.1	< 2.5
MW-936	10/11/2007	< 176	< 3.1	< 2.1	< 2.2	< 4.3	< 3.6	< 3.3
MW-937A	10/11/2007	< 176	< 2.1	< 2.1	< 2.7	< 3.4	< 2.2	< 2.8
MW-937B	10/9/2007	< 179	< 1.8	< 3.6	< 1.1	< 6.7	< 3.3	< 3.0
MW-937C	10/11/2007	< 176	< 2.9	< 2.2	< 2.1	< 4.3	< 2.3	< 3.9
MW-937D	10/11/2007	< 176	< 1.9	< 3.6	< 1.2	< 4.6	< 2.6	< 2.5
MW-937E	10/11/2007	< 179	< 3.1	< 2.2	< 2.7	< 6.9	< 2.0	< 2.6
MW-937F	10/9/2007	< 176	< 2.5	< 1.6	< 2.6	< 2.4	< 2.3	< 2.6
MW-004	10/23/2007	< 175	< 3.5	< 3.4	< 4.1	< 6.2	< 4.8	< 5.4
MW-005	10/23/2007	< 175	< 6.1	< 4.6	< 4.5	< 10.3	< 4.2	< 5.0
MW-006	10/23/2007	< 175	< 3.4	< 3.3	< 5.2	< 3.7	< 8.0	< 3.5
MW-007	10/24/2007	< 175	< 3.7	< 6.3	< 3.2	< 10.4	< 5.5	< 3.9
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GW1 1 -SOL-STA 104 + 90, 21 LT	11/8/2007	429 ± 113	-	-	-	-	-	-
GW1 2 -SOL-STA 104 + 20, 46 LT	11/8/2007	367 ± 111	-	-	-	-	-	-
GW1 3 -SOL-STA 103 + 50, 69 LT	11/8/2007	< 172	-	-	-	-	-	-
BG -SOL-STA 101 + 80, 210 RT	11/8/2007	< 172	-	-	-	-	-	-
GWA-SOL-STA 105 + 24, 300 LT	11/9/2007	< 160	-	-	-	-	-	-
GWA-SOL-STA 105 + 24, 300 LT	11/9/2007	< 160	-	-	-	-	-	-
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MW-004	11/19/2007	< 179	< 3.8	< 1.6	< 2.2	< 7.8	< 3.8	< 3.3
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MW-012	11/19/2007	< 179	< 2.0	< 1.9	< 2.0	< 2.6	< 2.4	< 3.6
MW-502	11/19/2007	< 182	-	-	-	-	-	-
MW-501	11/20/2007	< 182	-	-	-	-	-	-
105 + 00, 400 LT	12/3/2007	< 188	-	-	-	-	-	-

C-6. Soil, Analyses for tritium and gamma-emitting isotopes.

Location	Collection Date	H-3 (pCi/L)	Concentration (pCi/kg dry)				
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STA 73+57 57' RT (MH-2)	G-3 10-15'	2/7/2007	< 167	< 12.9	< 8.8	< 13.5	< 21.0
STA 73+57 57' RT (MH-2)	G-4 15-20'	2/7/2007	< 168	< 14.8	< 10.2	< 12.6	< 13.0
STA 73+57 57' RT (MH-2)	G-5 20-25'	2/7/2007	229 ± 97	< 15.2	< 10.8	< 13.9	< 13.7
STA 75+82 26' RT (MH-3A)	H-1 0-5'	2/8/2007	< 181	< 11.5	< 11.2	< 12.0	86.4 ± 36.1
STA 75+82 26' RT (MH-3A)	H-2 5-10'	2/8/2007	< 167	< 28.0	< 12.2	< 37.3	< 24.7
STA 75+82 26' RT (MH-3A)	H-3 10-15'	2/8/2007	< 181	< 23.5	< 25.2	< 31.7	< 19.8
STA 75+93 37' LT (MH-3A)	I-1 0-5'	2/8/2007	< 167	< 17.2	< 14.3	< 30.8	< 19.7
STA 75+93 37' LT (MH-3A)	I-2 5-10'	2/8/2007	< 181	< 15.5	< 6.1	< 12.3	< 14.9
STA 75+93 37' LT (MH-3A)	I-3 10-15'	2/8/2007	< 168	< 18.3	< 14.0	< 16.5	< 17.2
STA 75+93 37' LT (MH-3A)	I-4 15-20'	2/8/2007	< 169	< 14.9	< 4.1	< 12.8	< 11.9
STA 75+93 37' LT (MH-3A)	I-5 20-25'	2/8/2007	< 181	< 14.0	< 7.2	< 11.9	< 8.6
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-1 0-5'	2/8/2007	< 167	< 15.6	< 12.6	< 11.5	< 16.8
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-2 5-10'	2/8/2007	< 167	< 17.4	< 10.0	< 12.8	< 12.7
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-3 10-15'	2/8/2007	< 167	< 13.9	< 12.6	< 12.8	< 17.8
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-4 15-20'	2/8/2007	< 167	< 12.5	< 14.0	< 16.9	< 8.5
STA 83+37 52' RT (MH-3B TO MH-4 EAST)	J-5 20-25'	2/8/2007	< 167	< 13.6	< 14.8	< 14.8	< 16.8
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-1 0-5'	2/8/2007	< 167	< 18.8	< 6.5	< 12.6	< 22.4
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-2 5-10'	2/8/2007	< 167	< 16.5	< 5.1	< 11.1	< 10.6
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-3 10-15'	2/8/2007	< 167	< 13.3	< 10.7	< 13.0	< 13.5
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-4 15-20'	2/8/2007	< 167	< 20.3	< 19.0	< 36.5	< 22.6
STA 95+09 63' RT (MH-3B TO MH-4 WEST)	K-5 20-25'	2/8/2007	< 169	< 13.4	< 12.4	< 10.6	< 8.4
STA 104+30 100' LT (MH-5)	L-1 0-5'	2/8/2007	< 169	< 13.8	< 6.3	< 14.2	< 19.9
STA 104+30 100' LT (MH-5)	L-2 5-10'	2/8/2007	< 169	< 17.5	< 7.8	< 12.8	< 17.9
STA 104+30 100' LT (MH-5)	L-3 10-15'	2/8/2007	< 169	< 15.4	< 19.0	< 12.8	< 10.8
STA 104+30 100' LT (MH-5)	L-4 15-20'	2/8/2007	< 169	< 15.7	< 9.5	< 13.1	< 15.1