



Callaway Plant

June 20, 2012

ULNRC-05875

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

Ladies and Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
FACILITY OPERATING LICENSE NPF-30
2010 ANNUAL RADIOLOGICAL ENVIRONMENTAL
OPERATING REPORT**

Reference: AmerenUE Letter ULNRC-05785, dated April 29, 2011.

The referenced letter transmitted to NRC the 2010 Annual Radiological Environmental Operating Report (REMP) for Callaway Plant. Please find enclosed replacement pages for this report. Errors in Table 5 of the Soil, analyses for gamma-emitting isotopes, were identified during Nuclear Oversight Audit AP12-004 of the Environmental Monitoring Program. Specifically, soil analysis results for Ba-140/La-140 indicated measurable levels when they should have indicated less than the lower limit of detection (LLD) value.

Corrected pages for Table 5 are enclosed. 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 Thomas Elwood at (314) 225-1905.

Sincerely,

A handwritten signature in dark ink, appearing to read "S.A. Maglio", with a large, sweeping flourish extending from the end.

Scott A. Maglio
Regulatory Affairs Manager

HAO/nls

Enclosure

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Table 5. Soil, analyses for gamma-emitting isotopes.

Collection: Annually

Units: pCi/kg dry

Lab Code	Collection	Concentration (pCi/kg dry)								
	Date	K-40	Mn-54	Fe-59	Co-58	Co-60	Nb-95	Cs-134	Cs-137	La-140
<u>Location: SOL-F-002</u>										
CASO- 7154	11/19/2010	11447 ± 764	< 27.4	< 47.9	< 14.0	< 17.4	< 23.0	< 23.5	378 ± 41	< 46.0
CASO- 7155	11/19/2010	11233 ± 710	< 30.1	< 74.7	< 29.7	< 13.2	< 33.8	< 20.6	449 ± 44	< 42.7
<u>Location: SOL-F-006</u>										
CASO- 7156	11/19/2010	12293 ± 786	< 29.1	< 52.9	< 31.8	< 12.8	< 22.1	< 28.3	622 ± 57	< 78.4
CASO- 7157	11/19/2010	11578 ± 800	< 34.0	< 55.3	< 31.6	< 24.6	< 32.7	< 22.6	545 ± 48	< 73.8
<u>Location: SOL-PR-003</u>										
CASO- 7158	11/19/2010	10912 ± 705	< 32.4	< 34.1	< 22.7	< 13.6	< 33.6	< 22.9	202 ± 36	< 28.2
CASO- 7159	11/19/2010	11509 ± 668	< 28.3	< 57.0	< 27.4	< 17.6	< 39.3	< 16.5	355 ± 42	< 62.1
<u>Location: SOL-PR-007</u>										
CASO- 7160	11/19/2010	11287 ± 847	< 31.4	< 61.8	< 22.7	< 13.3	< 27.8	< 26.6	272 ± 54	< 44.7
CASO- 7161	11/19/2010	9846 ± 789	< 30.1	< 86.0	< 31.0	< 28.9	< 58.1	< 26.7	242 ± 51	< 71.2
<u>Location: SOL-V-003</u>										
CASO- 7162	11/19/2010	10226 ± 1284	< 70.4	< 145.6	< 75.5	< 59.9	< 74.7	< 56.3	99 ± 56	< 135.5
CASO- 7163	11/19/2010	15489 ± 851	< 27.9	< 46.4	< 26.9	< 13.5	< 44.5	< 17.4	231 ± 40	< 36.7
<u>Location: SOL-W-001</u>										
CASO- 7164	11/19/2010	13796 ± 824	< 26.6	< 33.3	< 25.9	< 21.0	< 14.1	< 14.9	80 ± 31	< 33.4
CASO- 7165	11/19/2010	11792 ± 1181	< 48.5	< 126.4	< 54.4	< 47.0	< 56.4	< 41.5	82 ± 45	< 192.9
<u>Location: SOL-W-002</u>										
CASO- 7166	11/30/2010	14928 ± 876	< 24.3	< 20.0	< 25.0	< 15.5	< 22.0	< 24.3	116 ± 43	< 29.1
CASO- 7168	11/30/2010	8554 ± 651	< 23.7	< 37.1	< 13.3	< 15.2	< 25.2	< 19.7	< 18.7	< 22.7
<u>Location: SOL-W-003</u>										
CASO- 7169	11/30/2010	8906 ± 1019	< 32.7	< 53.3	< 8.3	< 23.7	< 53.0	< 36.0	< 45.4	< 64.4
CASO- 7170	11/30/2010	10217 ± 1311	< 62.8	< 85.6	< 55.7	< 36.2	< 77.2	< 39.8	94 ± 49	< 102.6
<u>Location: SOL-W-004</u>										
CASO- 7171	11/30/2010	11934 ± 656	< 24.4	< 31.9	< 25.5	< 17.1	< 36.1	< 23.0	< 25.0	< 11.8
CASO- 7172	11/30/2010	9884 ± 1170	< 51.0	< 118.4	< 57.8	< 40.0	< 60.1	< 40.0	< 52.7	< 140.8