



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

March 3, 2010

Mr. Adam C. Heflin, Senior Vice
President and Chief Nuclear Officer
AmerenUE
P.O. Box 620
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SUBJECT: ANNUAL ASSESSMENT LETTER – CALLAWAY PLANT
(NRC INSPECTION REPORT 05000483/2010001)

Dear Mr. Heflin:

On February 17, 2010, the NRC staff completed its performance review of Callaway Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security-Related Information" will include the security cornerstone review and resultant inspection plan.

Overall, Callaway Plant operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 817-860-8141 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Geoffrey B. Miller, Chief
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Docket Nos. 50-483
License Nos. NPF-30

Enclosure: Callaway Plant Inspection / Activity Plan

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SUNSI Rev Compl.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ADAMS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Reviewer Initials	GM
Publicly Avail	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sensitive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sens. Type Initials	GM
C:DRP/B	D:DRS	C:DRP/B	D:DRP		
GMiller	RJCaniano	GMiller	DDChamberlain		
/RA/	/RA/MHay for	/RA/	/RA/		
2/24/10	2/23/10	2/25/10	2/25/10		

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Callaway

Inspection / Activity Plan

04/01/2010 - 06/30/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
PSB2-08P - INSERVICE INSPECTION					3
1	04/19/2010	04/23/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
1	04/19/2010	04/23/2010	IP 7111108P	Inservice Inspection Activities - PWR	
RP123 - OCCUPATIONAL RADIATION SAFETY					2
1	04/26/2010	04/30/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/26/2010	04/30/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/26/2010	04/30/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/26/2010	04/30/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	04/26/2010	04/30/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
EB1-07T - TRIENNIAL HEAT SINK					4
1	06/07/2010	06/18/2010	IP 7111107T	Heat Sink Performance	
EB1-17T - 50.59 AND MODS					6
1	06/07/2010	06/18/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
EP-1 - BIENNIAL EP PROGRAM INSPECTION					2
1	09/13/2010	09/17/2010	IP 7111402	Radiological Environmental Monitoring Program	
1	09/13/2010	09/17/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
1	09/13/2010	09/17/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	09/13/2010	09/17/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	09/13/2010	09/17/2010	IP 71151-EP01	Drill/Exercise Performance	
1	09/13/2010	09/17/2010	IP 71151-EP02	ERO Drill Participation	
1	09/13/2010	09/17/2010	IP 71151-EP03	Alert & Notification System	
RP45 - RADIATION SAFETY					2
1	09/20/2010	09/24/2010	IP 71124.04	Occupational Dose Assessment	
1	09/20/2010	09/24/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1	09/20/2010	09/24/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	09/20/2010	09/24/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
TSB-52B - BIENNIAL PI&R					4
1	10/18/2010	10/22/2010	IP 71152B	Identification and Resolution of Problems	
1	11/01/2010	11/05/2010	IP 71152B	Identification and Resolution of Problems	
EB1-21 - COMPONENT DESIGN BASIS INSPECTION					1
1	02/07/2011	03/07/2011	IP 7111121	Component Design Bases Inspection	
EP1 - BIENNIAL EP EXERCISE INSPECTION					3
1	05/09/2011	05/13/2011	IP 7111401	Exercise Evaluation	
1	05/09/2011	05/13/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	05/09/2011	05/13/2011	IP 71151-EP02	ERO Drill Participation	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Callaway

Inspection / Activity Plan

04/01/2010 - 06/30/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
EP1 - BIENNIAL EP EXERCISE INSPECTION					3
1	05/09/2011	05/13/2011	IP 71151-EP03	Alert & Notification System	
1	05/09/2011	05/13/2011	IP 71151-PP01	Protected Area Security Performance Index	
RP678 - RADIATION SAFETY TEAM					3
1	06/20/2011	06/24/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	06/20/2011	06/24/2011	IP 71124.07	Public Radiation Safety	
1	06/20/2011	06/24/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	