



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
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ARLINGTON, TEXAS 76011-4005

August 31, 2006

Charles D. Naslund, Senior Vice
President and Chief Nuclear Officer
Union Electric Company
P.O. Box 620
Fulton, MO 65251

SUBJECT: MIDCYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
CALLAWAY PLANT

Dear Mr. Naslund:

On August 10, 2006, the NRC staff completed its performance review of Callaway Plant for the first half of the calendar year 2006 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous 12 months. 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 physical protection information. A separate letter designated and marked as "Official Use Only - Security-Related Information" will include the physical protection review and resultant inspection plan.

Plant performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix based on one White PI in the Mitigating Systems Cornerstone. Specifically, the current quarter results for the new Mitigating Systems Performance Index (MSPI) indicator for the Heat Removal System is White. As discussed in NRC Regulatory Issue Summary 2006-07, "Changes to the Safety System Performance Indicators," the NRC, on April 1, 2006, replaced the safety system unavailability PIs with MSPI.

On August 16, 2006, we were notified by your staff of your readiness for the NRC to conduct a supplemental inspection to review the actions taken to address the White MSPI indicator result. Therefore, we plan to implement Supplemental Inspection Procedure 95001, "Inspection For One Or Two White Inputs In A Strategic Performance Area," beginning on October 2, 2006. The purpose of this supplemental inspection is to determine whether the root and contributing causes are understood, the extent of condition and cause are identified, and the corrective actions prevent recurrence.

In our assessment letters dated March 2 and August 30, 2005, and March 2, 2006, we advised you of a substantive crosscutting issue in the area of human performance. We indicated that personnel errors that occurred in the Initiating Events, Mitigating Systems, and Barrier Integrity cornerstones resulted from instances of plant personnel failing to follow procedures that resulted in increased challenges to plant equipment from preventable transients and events.

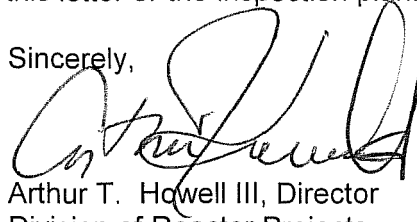
These errors stemmed from instances of failing to follow procedures and from inadequate procedures. The NRC recognizes that progress has been made by AmerenUE in addressing human performance issues, particularly with respect to procedure implementation, as measured by the an overall decrease in the human performance error rate. Also, during this assessment period, there were fewer findings involving inadequate procedures and instructions. We have concluded that the improved performance stems directly from the implementation of your human performance improvement plan. Because of this improved performance, we consider this issue closed and we plan no further focused inspections.

The enclosed inspection plan details the inspections, except those related to physical protection, scheduled through March 31, 2008. We also plan to conduct the temporary instructions specified in the inspection plan. In addition, as previously discussed, we plan to conduct a supplemental inspection using Procedure 95001, Supplemental Inspection. 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 9 months of the inspection plan are tentative and may be revised at the annual performance assessment 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 document 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 the inspection plan, we will contact you to discuss the change as soon as possible. Please contact William B. Jones at (817) 860-8141 with any questions you may have regarding this letter or the inspection plan.

Sincerely,



Arthur T. Howell III, Director
Division of Reactor Projects

Docket: 50-483
License: NPF-30

Enclosure:
Callaway Plant Inspection/Activity Plan

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SUNSI Review Completed: __wbj__ ADAMS: Yes No Initials: __wbj__
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R:_REACTORS\EOC and Midcycle\Midcycle Assessment Letters\2006\CWY

RIV/C:DRP/B	D:DRS	D:DRP	
WBJones;df	DDChamberlain	ATHaywell III	
<i>/RA/</i>	<i>RJCaniano for</i>	<i>[Signature]</i>	
8/23/06	8/24/06	8/24/06	

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Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
1	TI 169 - MSP VERIFICATION		2			
1	IP 2515/169	Mitigating Systems Performance Index Verification		06/24/2006	09/23/2006	Safety Issues
1	RP-ORS - OCCUPATIONAL RADIATION SAFETY		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/28/2006	09/01/2006	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		08/28/2006	09/01/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/28/2006	09/01/2006	Baseline Inspections
1	95001 - 95001 INSPECTION		2			
1	IP 95001	Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area		09/24/2006	12/31/2006	Supplemental Progra
1	EB2-52B - CAL PIR INSPECTION		8			
1	IP 71152B	Identification and Resolution of Problems		10/16/2006	10/20/2006	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		10/30/2006	11/03/2006	Baseline Inspections
1	RP-ORS - OCCUPATIONAL RADIATION SAFETY		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		10/23/2006	10/27/2006	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		10/23/2006	10/27/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		10/23/2006	10/27/2006	Baseline Inspections
1	EB2-05T - TRIENNIAL FIRE PROTECTION		7			
1	IP 711105T	Fire Protection [Triennial]		11/13/2006	11/17/2006	Baseline Inspections
1	IP 711105T	Fire Protection [Triennial]		11/27/2006	12/01/2006	Baseline Inspections
1	EB1-21 - CDB PART 1		7			
1	IP 711121	Component Design Bases Inspection		12/11/2006	12/15/2006	Baseline Inspections
1	REQUAL - BIENNIAL REQUAL		2			
1	IP 711111B	Licensed Operator Requalification Program		01/08/2007	01/12/2007	Baseline Inspections
1	EB1-21 - CDB PART 2		6			
1	IP 711121	Component Design Bases Inspection		01/02/2007	01/12/2007	Baseline Inspections
1	TI - 150 - RPV AND VHP NOZZLES		2			
1	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC ORDER EA-03		04/15/2007	05/10/2007	Safety Issues
1	EB1-08P - ISI		1			
1	IP 711108P	Inservice Inspection Activities - PWR		04/23/2007	05/04/2007	Baseline Inspections
1	PR-ORS - OCCUPATIONAL RADIATION SAFETY		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/23/2007	04/27/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		04/23/2007	04/27/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		04/23/2007	04/27/2007	Baseline Inspections
1	RP TEAM - RADIATION SAFETY TEAM		5			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/04/2007	06/08/2007	Baseline Inspections
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/04/2007	06/08/2007	Baseline Inspections

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

Callaway
 Inspection / Activity Plan
 07/01/2006 - 03/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	RP TEAM - RADIATION SAFETY TEAM		5			
1	IP 7112202	Radioactive Material Processing and Transportation		06/04/2007	06/08/2007	Baseline Inspections
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control F		06/04/2007	06/08/2007	Baseline Inspections
	EB1-2/17 - 50.59 & PERMANENT PLANT MODS		3			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		07/23/2007	07/27/2007	Baseline Inspections
1	IP 711117B	Permanent Plant Modifications		07/23/2007	07/27/2007	Baseline Inspections
	EP1 - EMERG PREP EXERCISE		3			
1	IP 7111401	Exercise Evaluation		08/06/2007	08/10/2007	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/06/2007	08/10/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/06/2007	08/10/2007	Baseline Inspections
	BRQ SIM - BIENNIAL RQ SIM ONLY		1			
1	IP 711111B	Licensed Operator Requalification Program		08/20/2007	08/24/2007	Baseline Inspections
	RP-ORS - OCCUPATIONAL RADIATION SAFETY		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/27/2007	08/31/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		08/27/2007	08/31/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/27/2007	08/31/2007	Baseline Inspections
	EB2-07B - HEAT SINK INSPECTION		2			
1	IP 711107B	Heat Sink Performance		09/10/2007	09/14/2007	Baseline Inspections
	EXAM - INITIAL EXAM		4			
1	X02355	CALLAWAY - INITIAL EXAM (10/07)		10/22/2007	10/26/2007	Not Applicable
1	X02355	CALLAWAY - INITIAL EXAM (10/07)		11/26/2007	12/01/2007	Not Applicable
	EB2-12T - TRIENNIAL MAINTENANCE RULE INSPECTION		1			
1	IP 711112B	Maintenance Effectiveness		03/24/2008	03/28/2008	Baseline Inspections

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