



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
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March 2, 2007

Rick A. Muench, President and  
Chief Executive Officer  
Wolf Creek Nuclear Operating Corporation  
P.O. Box 411  
Burlington, KS 66839

SUBJECT: ANNUAL ASSESSMENT LETTER - WOLF CREEK GENERATING STATION  
(NRC INSPECTION REPORT 05000482/2007001)

Dear Mr. Muench:

On February 8, 2007, the NRC staff completed its performance review of the Wolf Creek Generating Station. Our technical staff reviewed performance indicators for the most recent quarter and inspection results for the period from January 1 through December 31, 2006. 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.

Overall, the Wolf Creek Generating Station 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 performance indicators indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process baseline inspections at your facility.

The staff identified that there were more than three Green inspection findings for the current 12-month assessment period with documented crosscutting aspects in the human performance area. There is a crosscutting theme associated with these findings involving work practices in that there were a number of instances in which station personnel failed to use human error prevention techniques. In evaluating your scope of efforts and progress in addressing the crosscutting theme, the NRC staff determined that you recognized the crosscutting theme and are taking actions to address it. In 2004 and 2005, your staff identified negative trends in human performance and implemented corrective actions to address this trend. Subsequent assessments indicated that these actions were less than fully effective. Your staff has since implemented additional corrective actions to address this theme. These actions include development of a Human Performance Program Initiative to be led by site management. Specific actions in this initiative include: promoting excellence by ensuring station personnel understand and demonstrate human performance fundamentals, ensuring coaching and

oversight are effective at achieving desired performance, ensuring root cause and apparent cause evaluations effectively identify organization and process contributors, and ensuring personnel take ownership of station performance by demonstrating sensitivity for error-likely situations and developing defensive strategies. On the basis of these additional actions, the NRC staff has concluded that a substantive crosscutting issue in human performance does not exist at this time.

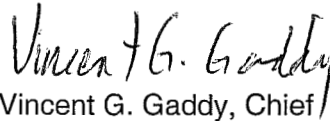
The staff also identified that there were more than three Green inspection findings for the current 12-month assessment period with documented crosscutting aspects in the problem identification and resolution area. There is a crosscutting theme associated with these findings involving the failure to institutionalize internal and external operating experience into station processes, procedures, equipment, and training programs. In evaluating your scope of efforts and progress in addressing the crosscutting theme, the NRC staff determined that you took a range of corrective actions which have been implemented and are judged at this time to be effective. Three of the findings were identified during the problem identification and resolution inspection that occurred during Spring 2006. Following this inspection, your staff developed subject matter experts who were tasked with ensuring that operating experience was adequately evaluated and disseminated throughout the organization. Only one additional finding associated with this crosscutting theme has been identified since corrective action was implemented. On the basis of your efforts to address this issue, the NRC staff has concluded that a substantive crosscutting issue in problem identification and resolution does not exist at this time.

The enclosed inspection plan details the inspections, except those related to physical protection, scheduled through September 30, 2008. In addition to the baseline inspection program, we plan to conduct Inspection Procedure 71002, "License Renewal Inspection," and Temporary Instruction 2515/150, "Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles." 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 midcycle 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 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,



Vincent G. Gaddy, Chief  
Project Branch B  
Division of Reactor Projects

Docket: 50-482  
License: NPF-42

Enclosure:  
Wolf Creek Inspection/Activity Plan

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Wolf Creek  
Inspection / Activity Plan  
01/01/2007 - 09/30/2008

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Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>RP-ORS3 - OCCUPATIONAL RADIATION SAFETY-ACCESS</b>		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		03/26/2007	03/30/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		03/26/2007	03/30/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		03/26/2007	03/30/2007	Baseline Inspections
	<b>LR-SCOPE - SCOPING AND SCREENING</b>		5			
1	IP 71002	License Renewal Inspection		06/04/2007	06/08/2007	License Renewal Ins
1	IP 71002	License Renewal Inspection		06/18/2007	06/22/2007	License Renewal Ins
	<b>EB1-21 - CDB</b>		9			
1	IP 7111121	Component Design Bases Inspection		06/25/2007	06/29/2007	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		07/09/2007	07/20/2007	Baseline Inspections
	<b>EB2-12T - MAINTENANCE RULE TRIENNIAL</b>		2			
1	IP 7111112B	Maintenance Effectiveness		07/23/2007	07/27/2007	Baseline Inspections
	<b>RP-ORS4 - OCCUPATIONAL RADIATION SAFETY-ALARA</b>		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/13/2007	08/17/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		08/13/2007	08/17/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/13/2007	08/17/2007	Baseline Inspections
	<b>EB2-07B - HEAT SINK INSPECTION</b>		1			
1	IP 7111107B	Heat Sink Performance		09/24/2007	09/28/2007	Baseline Inspections
	<b>EXAM - INITIAL EXAM</b>		3			
1	X02356	WOLF CREEK - INITIAL EXAM (12/07)		10/08/2007	10/12/2007	Not Applicable
1	X02356	WOLF CREEK - INITIAL EXAM (12/07)		10/29/2007	11/02/2007	Not Applicable
	<b>EPI - EMERG PREP EXERCISE</b>		3			
1	IP 7111401	Exercise Evaluation		11/05/2007	11/09/2007	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		11/05/2007	11/09/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		11/05/2007	11/09/2007	Baseline Inspections
	<b>EB2-52B - BIENNIAL P&amp;R INSPECTION</b>		1			
1	IP 71152B	Identification and Resolution of Problems		01/28/2008	02/01/2008	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		02/11/2008	02/15/2008	Baseline Inspections
	<b>2515/150 - VESSEL HEAD INSPECTION</b>		2			
1	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC ORDER EA-03)		03/03/2008	04/07/2008	Safety Issues
	<b>EB1-08 - INSERVICE INSPECTION ACTIVITIES</b>		1			
1	IP 7111108P	Inservice Inspection Activities - PWR		03/17/2008	04/04/2008	Baseline Inspections
	<b>RP-ORS1 - OCCUPATIONAL RADIATION SAFETY - ACCESS</b>		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/07/2008	04/11/2008	Baseline Inspections

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

Wolf Creek  
 Inspection / Activity Plan  
 01/01/2007 - 09/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>RP-ORS1 - OCCUPATIONAL RADIATION SAFETY - ACCESS</b>		1			
1	IP 7112102	ALARA Planning and Controls		04/07/2008	04/11/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		04/07/2008	04/11/2008	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		04/07/2008	04/11/2008	Baseline Inspections
	<b>EB1-2/17 - 50.59 &amp; PERM MODS</b>		4			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		05/05/2008	05/09/2008	Baseline Inspections
1	IP 711117B	Permanent Plant Modifications		05/05/2008	05/09/2008	Baseline Inspections
	<b>RP-ORS2 - OCCUPATIONAL RADIATION SAFETY - ALARA</b>		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/18/2008	08/22/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		08/18/2008	08/22/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		08/18/2008	08/22/2008	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		08/18/2008	08/22/2008	Baseline Inspections
	<b>RP TEAM - RADIATION SAFETY TEAM INSPECTION</b>		5			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		09/08/2008	09/12/2008	Baseline Inspections
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		09/08/2008	09/12/2008	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		09/08/2008	09/12/2008	Baseline Inspections
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control F		09/08/2008	09/12/2008	Baseline Inspections
	<b>EB2-05T - TRIENNIAL FIRE PROTECTION</b>		1			
1	IP 7111105T	Fire Protection [Triennial]		09/15/2008	09/19/2008	Baseline Inspections
1	IP 7111105T	Fire Protection [Triennial]		09/29/2008	10/03/2008	Baseline Inspections

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 This report shows only on-site and announced inspection procedures.

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