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

August 31, 2007

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

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - WOLF CREEK GENERATING STATION

Dear Mr. Muench:

On August 7, 2007, the NRC staff completed its performance review of Wolf Creek Generating Station for the first half of the calendar year 2007 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve 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 security information. A separate letter designated and marked as "Official Use Only–Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Wolf Creek Generating Station 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).

In our annual assessment letter dated March 2, 2007, we identified a cross-cutting theme involving work practices in which station personnel failed to use human error prevention techniques. We did not identify a substantive cross-cutting issue in human performance because of the actions that your staff was taking to address this area of performance. These actions included the development of a Human Performance Program Initiative to be led by site management. Specific actions in this initiative included: 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.

During this assessment period, we identified the same cross-cutting theme. However, the actions you have implemented are beginning to show progress given that only two of these findings occurred during the last six months of the assessment period. On the basis of these actions, including the results achieved to date, the NRC staff concluded that a substantive cross-cutting issue in human performance does not exist at this time.

The enclosed inspection plan details the inspections, except those related to security, scheduled through December 31, 2008. In addition to the baseline inspection program, we plan to implement 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 nine months of the inspection plan are tentative and may be revised at the end-of-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 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).

The NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the 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 Gaddy

Vincent Gaddy, Chief
Reactor Projects Branch B
Division of Reactor Projects

Docket: 50-482
License: NPF-42

Enclosure:
Wolf Creek Inspection/Activity Plan

cc w/enclosure:
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SUNSI Review Completed: VGG ADAMS: ■ Yes ☐ No Initials: VGG
■ Publicly Available ☐ Non-Publicly Available ☐ Sensitive ■ Non-Sensitive

R:_REACTORS\EOC and Midcycle\Midcycle Assessment Letters\2007\WC

RIV:C:DRP/B concurrence		D:DRS	D:DRP	C:DRP/B signature
VGGaddy*	B. Maxwell	DDChamberlain	ATHowell III	VGGaddy
/RA/	BSM	/RA/		VGG
08/20/07	8/23/07	08/22/07	08/ /07	08/ /07

OFFICIAL RECORD COPY T=Telephone E=E-mail F=Fax
*Previous Concurrence

Wolf Creek
Inspection / Activity Plan
09/01/2007 - 12/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	LR-SCOPE	**- SCOPING AND SCREENING**	**7**			
1	IP 71002	License Renewal Inspection		09/10/2007	09/14/2007	License Renewal Ins
1	IP 71002	License Renewal Inspection		10/22/2007	10/26/2007	License Renewal Ins
	EXAM	**- INITIAL EXAM**	**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
	EP1	**- EMERG PREP EXERCISE**	**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
	EB2-07B	**- HEAT SINK INSPECTION**	**2**			
1	IP 7111107B	Heat Sink Performance		12/10/2007	12/14/2007	Baseline Inspections
	EB2-52B	**- BIENNIAL PI&R INSPECTION**	**4**			
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
	2515/150	**- VESSEL HEAD INSPECTION**	**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
	RP-ORS1	**- OCCUPATIONAL RADIATION SAFETY - ACCESS**	**1**			
1	IP 7112101	Access Control to Radiologically Significant Areas		03/10/2008	03/14/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		03/10/2008	03/14/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		03/10/2008	03/14/2008	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		03/10/2008	03/14/2008	Baseline Inspections
	EB1-08	**- INSERVICE INSPECTION ACTIVITIES**	**2**			
1	IP 7111108P	Inservice Inspection Activities - PWR		03/31/2008	04/11/2008	Baseline Inspections
	RP-ORS2	**- OCCUPATIONAL RADIATION SAFETY - ALARA**	**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
	RP TEAM	**- RADIATION SAFETY TEAM INSPECTION**	**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

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

Wolf Creek
Inspection / Activity Plan
09/01/2007 - 12/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	EB2-05T	**- TRIENNIAL FIRE PROTECTION**	**4**			
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
1	IP 7111105T	Fire Protection [Triennial]		10/20/2008	10/24/2008	Baseline Inspections
	REQUAL	**- BIENNIAL REQUALIFICATION**	**3**			
1	IP 7111111B	Licensed Operator Requalification Program		10/20/2008	10/24/2008	Baseline Inspections
	EB1-2/17	**- 50.59 & PERM MODS**	**2**			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		12/08/2008	12/12/2008	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		12/08/2008	12/12/2008	Baseline Inspections
	EP2	**- EP PROGRAM**	**1**			
1	IP 7111402	Alert and Notification System Testing		12/15/2008	12/19/2008	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		12/15/2008	12/19/2008	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		12/15/2008	12/19/2008	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		12/15/2008	12/19/2008	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		12/15/2008	12/19/2008	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		12/15/2008	12/19/2008	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		12/15/2008	12/19/2008	Baseline Inspections

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