

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION II SAM NUNN ATLANTA FEDERAL CENTER 61 FORSYTH STREET, SW, SUITE 23T85 ATLANTA, GEORGIA 30303-8931

September 2, 2008

Mr. David A. Christian
President and Chief Nuclear Officer
Virginia Electric and Power Company
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - NORTH ANNA

POWER STATION

Dear Mr. Christian:

On August 14, 2008, the NRC staff completed its performance review of North Anna Power Station Units 1 and 2 for the first half of the calendar year 2008 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-Related Information" will include the Physical Protection/Security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at North Anna Power Station Units 1 and 2 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. We also plan on conducting several non-ROP inspections which include: TI 2515/171 Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies; TI 2515/172 Reactor Coolant System Dissimiliar Metal Butt Welds; TI 2515/173 Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative; and TI 2515/176 Emergency Diesel Generator Technical Specification Surveillance Requirements Regarding Endurance and Margin Testing.

Additionally, the staff has identified a substantive cross-cutting issue, using the criteria in MC 0305, in the area of human performance with a cross-cutting theme in the aspect of resources, complete, accurate and up-to-date design documentation, procedures, work packages, and correct labeling of components (H.2.c). This was the result of four findings in the twelve month assessment period with the same cross-cutting aspect of H.2.c. On April 18, 2008, North Anna Power Station initiated condition report (CR) 96021 due to the potential identification of three findings in the area of human performance, resources (H.2.c) that were debriefed by the Resident Inspectors during the first quarter 2008 exit meeting. We understand that corrective

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actions are in progress, as discussed with NRC Region II Management during a public meeting held July 16, 2008. Additional corrective actions are scheduled for completion by the end of 2008. The substantive cross-cutting issue can be cleared, if your corrective actions in this area are effective as demonstrated by no new findings with the same cross-cutting aspect for the remainder of 2008. We will continue to monitor the progress of your corrective actions, and evaluate this issue during the end of cycle assessment.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2009. 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).

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 me at 404-562-4612 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Mark A. Bates, Acting Chief Reactor Projects Branch 5 Division of Reactor Projects

Docket Nos. 50-338, 50-339 License Nos. NPF-4, NPF-7

Enclosure: North Anna Inspection / Activity Plan

cc w/encl: (See next page)

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North Anna 09/02/2008 - 12/31/2009

Inspection / Activity Plan

Unit			No. of Staff	taff Planned Dates		Inspection			
Number	Inspection Activity	Title	on Site	Start	End	Туре			
PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK1 2									
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		09/15/2008	09/19/2008	Baseline Inspections			
1, 2	IP 7112102	ALARA Planning and Controls		09/15/2008	09/19/2008	Baseline Inspections			
1, 2	IP 7112202	Radioactive Material Processing and Transportation		09/15/2008	09/19/2008	Baseline Inspections			
1, 2	IP 71151-OR01	Occupational Exposure Control Effectiveness		09/15/2008	09/19/2008	Baseline Inspections			
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		09/15/2008	09/19/2008	Baseline Inspections			
	EB3-ISI - UNIT	2 INSERVICE INSPECTION	2						
2	IP 7111108P	Inservice Inspection Activities - PWR		09/22/2008	09/26/2008	Baseline Inspections			
	PSB1-RP - RADI	ATION PROTECTION OCCUPATIONAL WK2	2						
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		09/29/2008	10/03/2008	Baseline Inspections			
1, 2	IP 7112102	ALARA Planning and Controls		09/29/2008	10/03/2008	Baseline Inspections			
1, 2	IP 7112202	Radioactive Material Processing and Transportation		09/29/2008	10/03/2008	Baseline Inspections			
1, 2	IP 71151-OR01	Occupational Exposure Control Effectiveness		09/29/2008	10/03/2008	Baseline Inspections			
2	IP 71151-PR01	RETS/ODCM Radiological Effluent		09/29/2008	10/03/2008	Baseline Inspections			
	EB3TI172 - TI-172	2	1						
1, 2	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds		12/08/2008	12/12/2008	Generic Safety Inspection			
	TI-171 - B.5.B	PHASE 2&3	3						
1, 2	IP 2515/171	Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		12/08/2008	12/12/2008	Generic Safety Inspection			
	PI&R - PROE	BLEM IDENTIFICATION AND RESOLUTION	5						
1	IP 71152B	Identification and Resolution of Problems		01/12/2009	01/16/2009	Baseline Inspections			
1	IP 71152B	Identification and Resolution of Problems		02/02/2009	02/06/2009	Baseline Inspections			
	EB3ISI - UNIT	1 INSERVICE INSPECTION	2						
1	IP 7111108P	Inservice Inspection Activities - PWR		03/16/2009	03/20/2009	Baseline Inspections			
	EB3TI172 - TI-172	2 RCS DM BUTT WELD	2						
1	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds		03/16/2009	03/20/2009	Generic Safety Inspection			
		1 STEAM GENERATOR INSERVICE INSP	1						
1	IP 7111108P	Inservice Inspection Activities - PWR		03/23/2009	03/27/2009	Baseline Inspections			
		5/173 AND ISFSI	1						
1, 2	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative		05/25/2009	05/29/2009	Generic Safety Inspection			
1, 2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		05/25/2009	05/29/2009	Other Routine			
		ATION PROTECTION PUBLIC BASELINE	3						
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/22/2009	06/26/2009	Baseline Inspections			
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/22/2009	06/26/2009	Baseline Inspections			
1, 2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	am	06/22/2009	06/26/2009	Baseline Inspections			
1, 2	IP 71151-OR01	Occupational Exposure Control Effectiveness		06/22/2009	06/26/2009	Baseline Inspections			

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

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North Anna Inspection / Activity Plan 09/02/2008 - 12/31/2009

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Unit			No. of Staff	Planned Dates		Inspection
Number	Inspection Activity	Title Title	on Site	Start	End	Туре
	PSB1-RP - RADIA	ATION PROTECTION PUBLIC BASELINE	3			
1, 2	IP 71151-PR01	RETS/ODCM Radiological Effluent		06/22/2009	06/26/2009	Baseline Inspections
	PSB1EP - EMER	RGENCY PREPAREDNESS INSPECTION	1			
1, 2	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review		07/06/2009	07/10/2009	Baseline Inspections
1, 2	IP 7111402	Alert and Notification System Testing		07/06/2009	07/10/2009	EP Baseline Inspection
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		07/06/2009	07/10/2009	EP Baseline Inspection
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/06/2009	07/10/2009	EP Baseline Inspection
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		07/06/2009	07/10/2009	EP Baseline Inspection
1, 2	IP 71151	Performance Indicator Verification		07/06/2009	07/10/2009	Baseline Inspections
	TFPI - TRIENNIEL FIRE PROTECTION INSPECTION					
1, 2	IP 7111105T	Fire Protection [Triennial]		08/03/2009	08/07/2009	Baseline Inspections
1, 2	IP 7111105T	Fire Protection [Triennial]		08/17/2009	08/21/2009	Baseline Inspections
	EB1-CDBI - COMI	PONENT DESIGN BASIS INSPECTION	6			
1, 2	IP 7111121	Component Design Bases Inspection		10/19/2009	10/23/2009	Baseline Inspections
1, 2	IP 7111121	Component Design Bases Inspection		11/02/2009	11/06/2009	Baseline Inspections
1, 2	IP 7111121	Component Design Bases Inspection		11/16/2009	11/20/2009	Baseline Inspections
1, 2	IP 7111121	Component Design Bases Inspection		12/07/2009	12/11/2009	Baseline Inspections