



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

September 1, 2015

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

**SUBJECT: MID-CYCLE LETTER FOR SURRY POWER STATION UNITS 1 AND 2 –  
NRC ASSESSMENT REPORT 05000280/2015005 AND 05000281/2015005**

Dear Mr. Heacock:

On August 13, 2015, the NRC completed its mid-cycle performance review of Surry Power Station, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2014, through June 30, 2015. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Surry Power Station, Units 1 and 2, were operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined that the performance at Surry Power Station, Units 1 and 2, during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the second half of the inspection schedule of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

In addition to the routine ROP baseline inspections at your facility, we also plan on conducting infrequently performed inspections which include initial operator license examinations.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audit was completed for the Surry Power Station, and the information gathered will aid staff in development of the ultimate Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above performing TI 191: "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

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

Please contact me at (404) 997-4609 with any questions you may have regarding this letter.

Sincerely,

*/RA/*

Steven D. Rose, Chief  
Reactor Projects Branch 5  
Division of Reactor Projects

Docket Nos.: 50-280, 50-281  
License Nos.: DPR-32, DPR-37

Enclosure:  
Surry Inspection/Activity Plan  
(07/01/2015 – 06/30/2017)

cc: Distribution via ListServ

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audit was completed for the Surry Power Station, and the information gathered will aid staff in development of the ultimate Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above performing TI 191: "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

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PUBLICLY AVAILABLE  NON-PUBLICLY AVAILABLE  SENSITIVE  NON-SENSITIVE

ADAMS:  Yes ACCESSION NUMBER: ML15244B082  SUNSI REVIEW COMPLETE  FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP			
SIGNATURE	SON	SDR2			
NAME	SNinh	SRose			
DATE	8/26/2015	8/28/2015			
E-MAIL COPY?	YES NO	YES NO			

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2015\MID-CYCLE\ADMIN WORKING FOLDER\LETTERS\SURRY MID-CYCLE LTR 2015.DOCX

D. Heacock

3

Letter to David A Heacock from Steven Rose dated September 1, 2015.

SUBJECT: MID-CYCLE LETTER FOR SURRY POWER STATION UNITS 1 AND 2 –  
NRC ASSESSMENT REPORT 05000280/2015005 AND 05000281/2015005

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ROP Assessment

ROP Reports

Institute of Nuclear Power Operations (INPO)

**Surry**  
**Inspection / Activity Plan**  
**09/01/2015 - 06/30/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>MODS - PLANT MODIFICATIONS INSPECTION</b>		<b>4</b>
1, 2	09/14/2015	09/18/2015	IP 711117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1, 2	09/28/2015	10/02/2015	IP 711117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>3</b>
1	09/21/2015	10/02/2015	V23437	SURRY/SEPTEMBER 2015 INITIAL EXAM AT POWER FACILITIES	
			<b>RP - RP OCCUPATIONAL BASELINE</b>		<b>2</b>
1, 2	10/19/2015	10/23/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/19/2015	10/23/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	10/19/2015	10/23/2015	IP 71151	Performance Indicator Verification	
			<b>ISI - UNIT 2 IN-SERVICE INSPECTION</b>		<b>1</b>
2	10/26/2015	10/30/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>		<b>1</b>
2	11/02/2015	11/06/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>4</b>
1, 2	04/18/2016	04/22/2016	IP 7111402	Alert and Notification System Testing	
1, 2	04/18/2016	04/22/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	04/18/2016	04/22/2016	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	04/18/2016	04/22/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	04/18/2016	04/22/2016	IP 71151	Performance Indicator Verification	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>3</b>
1	08/22/2016	08/26/2016	V23477	SURRY SEPTEMBER 2016 INITIAL EXAM AT POWER FACILITIES	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 1</b>		<b>3</b>
1, 2	09/19/2016	09/23/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/19/2016	09/23/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	09/19/2016	09/23/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/19/2016	09/23/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	09/19/2016	09/23/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	09/19/2016	09/23/2016	IP 71151	Performance Indicator Verification	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>3</b>
1	09/19/2016	09/30/2016	V23477	SURRY SEPTEMBER 2016 INITIAL EXAM AT POWER FACILITIES	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 2</b>		<b>2</b>
1, 2	10/03/2016	10/07/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/03/2016	10/07/2016	IP 71124.02	Occupational ALARA Planning and Controls	

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

Enclosure

**Surry**  
**Inspection / Activity Plan**  
**09/01/2015 - 06/30/2017**

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	Start	End			
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 2</b>		<b>2</b>
1, 2	10/03/2016	10/07/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/03/2016	10/07/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	10/03/2016	10/07/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	10/03/2016	10/07/2016	IP 71151	Performance Indicator Verification	
			<b>ISI - UNIT 1 IN-SERVICE INSPECTION</b>		<b>1</b>
1	10/31/2016	11/04/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>SGISI - UNIT 1 SG IN-SERVICE INSPECTION</b>		<b>1</b>
1	11/14/2016	11/18/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>ISI - UNIT 2 IN-SERVICE INSPECTION &amp; RVH EXAM</b>		<b>1</b>
2	04/24/2017	04/28/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RAD HAZARDS AND PIV</b>		<b>1</b>
1, 2	04/24/2017	04/28/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/24/2017	04/28/2017	IP 71151	Performance Indicator Verification	
			<b>SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>		<b>1</b>
2	05/01/2017	05/05/2017	IP 7111108P	Inservice Inspection Activities - PWR	

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