



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET SW SUITE 23T85
ATLANTA, GEORGIA 30303-8931**

August 30, 2004

Virginia Electric and Power Company
ATTN: Mr. David A. Christian
Sr. Vice President and
Chief Nuclear Officer
Innsbrook Technical Center - 2SW
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - SURRY
POWER STATION**

Dear Mr. Christian:

On August 4, 2004, the NRC staff completed its mid-cycle plant performance assessment of the Surry Power Station. The mid-cycle review for Surry involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2004 assessment cycle. The process included a review of 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 will allow you an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and the enclosed inspection plan do not include physical protection information. A separate mid-cycle performance review letter, designated and marked as "Proprietary Information in accordance with 10 CFR 2.390(d)(1)", will include the physical protection review and resultant inspection plan.

Unit 2 performance for the most recent quarter was within the Licensee Response Column due to all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional oversight (Green). Unit 1 performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix based on a White Safety System Unavailability - Emergency AC Power PI of the Mitigating Systems Cornerstone. The White PI reflected performance at a level requiring increased response. The supplemental inspection for this PI was completed with no significant finding identified. In addition, a preliminary White finding and potential non-green issues, associated with mitigating certain fires and flooding scenarios, were sent to you on February 2, 2004, and May 21, 2004. Based upon the final significance determination, additional inspection activities may be warranted for Units 1 and 2.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2006. In addition to baseline inspection activities, the plan currently includes inspections associated with your Independent Spent Fuel Storage Installation, safety issue inspection associated with reactor pressure vessel lower head penetration nozzles, and an initial operator examinations. Further, during the upcoming Unit 1 refueling outage, an inspection of your response to NRC Bulletin 2004-01: Inspection of Alloy

82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors, will be also be conducted. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last twelve months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

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 Mr. Kerry Landis at 404-562-4510 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Victor McCree, Director
Division of Reactor Projects

Docket Nos: 50-280, 50-281, 72-2
License Nos: DPR-32, DPR-37, SNM-2501

Enclosure: Surry Inspection/Activity Plan

cc w/encl: (See page 3)

VEPCO

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cc w/encl.:

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Surry
Inspection / Activity Plan
09/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	OL EP	- EP INSPECTION	1			
1,2	IP 7111402	Alert and Notification System Testing		10/25/2004	10/29/2004	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		10/25/2004	10/29/2004	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		10/25/2004	10/29/2004	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		10/25/2004	10/29/2004	Baseline Inspections
1,2	IP 711151	Performance Indicator Verification		10/25/2004	10/29/2004	Baseline Inspections
	EB2-ISI	- INSERVICE INSPECTION-U1	2			
1	IP 7111108P	Inservice Inspection Activities - PWR		11/08/2004	11/12/2004	Baseline Inspections
	2515/152	- U-1 2515/152: RPV LOWER HEAD PENETRATION	1			
1	IP 2515/152	Reactor Pressure Vessel Lower Head Penetration Nozzles (NRC Bulletin 2003-02)		12/03/2004	12/10/2004	Safety Issues
	OL RQ	- REQUAL INSPECTION	2			
1,2	IP 7111111B	Licensed Operator Requalification Program		03/07/2005	03/11/2005	Baseline Inspections
	PS-RP	- RP OCCUPATIONAL BASELINE & ISFSI WK-1	2			
1,2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		04/18/2005	04/22/2005	Other Routine
1,2	IP 7112101	Access Control to Radiologically Significant Areas		04/18/2005	04/22/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		04/18/2005	04/22/2005	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		04/18/2005	04/22/2005	Baseline Inspections
1,2	IP 711151	Performance Indicator Verification		04/18/2005	04/22/2005	Baseline Inspections
	EB2-ISI	- INSERVICE INSPECTION-U2	1			
2	IP 7111108P	Inservice Inspection Activities - PWR		05/02/2005	05/06/2005	Baseline Inspections
	PS-RP	- RP OCCUPATIONAL BASELINE & ISFSI WK- 2	2			
1,2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		05/09/2005	05/13/2005	Other Routine
1,2	IP 7112101	Access Control to Radiologically Significant Areas		05/09/2005	05/13/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		05/09/2005	05/13/2005	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		05/09/2005	05/13/2005	Baseline Inspections
1,2	IP 711151	Performance Indicator Verification		05/09/2005	05/13/2005	Baseline Inspections
	EB2SGISI	- STEAM GENERATOR ISI	1			
2	IP 7111108P	Inservice Inspection Activities - PWR		05/16/2005	05/20/2005	Baseline Inspections
	PI&R	- PROBLEM IDENTIFICATION AND RESOLUTION	4			
1,2	IP 71152B	Identification and Resolution of Problems		08/08/2005	08/12/2005	Baseline Inspections
	PI&R	- PROBLEM IDENTIFICATION AND RESOLUTION	4			
1,2	IP 71152B	Identification and Resolution of Problems		08/22/2005	08/26/2005	Baseline Inspections
	EB2-MODS	- MODIFICATIONS/10CFR50.59	4			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		09/19/2005	09/23/2005	Baseline Inspections

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

ENCLOSURE

Surry
Inspection / Activity Plan
09/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	EB2-MODS - MODIFICATIONS/10CFR50.59		4			
1,2	IP 711117B	Permanent Plant Modifications		09/19/2005	09/23/2005	Baseline Inspections
	OP EP - EP INSPECTION		1			
1,2	IP 7111402	Alert and Notification System Testing		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		12/05/2005	12/09/2005	Baseline Inspections
	EB1SSDPC - SSDPC PRE-INSPECTION VISIT		5			
1,2	IP 7111121	Safety System Design and Performance Capability		12/12/2005	12/16/2005	Baseline Inspections
	OL PREP - INITIAL EXAM PREP		2			
1	V23210	SURRY/EXAMS AT POWER FACILITIES		01/09/2006	01/13/2006	Not Applicable
	EB1SSDPC - SAFETY SYSTEM DESIGN & PERF. CAPABILITY		5			
1,2	IP 7111121	Safety System Design and Performance Capability		01/09/2006	01/13/2006	Baseline Inspections
1,2	IP 7111121	Safety System Design and Performance Capability		01/23/2006	01/27/2006	Baseline Inspections
	OL EXAM - INITIAL EXAM		3			
1	V23210	SURRY/EXAMS AT POWER FACILITIES		01/23/2006	01/27/2006	Not Applicable
	EB2-MR - MAINTENANCE RULE		1			
1,2	IP 711112B	Maintenance Effectiveness		03/13/2006	03/17/2006	Baseline Inspections