

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION II

245 PEACHTREE CENTER AVENUE NE, SUITE 1200 ATLANTA, GEORGIA 30303-1257

September 1, 2015

Mr. Thomas D. Gatlin
Vice President - Nuclear Operations
South Carolina Electric & Gas Company
Virgil C. Summer Nuclear Station
P.O. Box 88
Jenkinsville, SC 29065

SUBJECT: MID-CYCLE LETTER FOR VIRGIL C. SUMMER NUCLEAR STATION UNIT 1 -

NRC ASSESSMENT REPORT 05000395/2015005

Dear Mr. Gatlin:

On August 13, 2015, the NRC completed its mid-cycle performance review of V.C. Summer Nuclear Station, Unit 1. 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, V.C. Summer Station, Unit 1, operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined that the performance at V.C. Summer Nuclear Station, Unit 1, 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 an initial operator license examination.

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

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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 Virgil C. Summer Nuclear Station, Unit 1, 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 No.: 50-395 License No.: NPF-12

Enclosure:

V.C. Summer Inspection/Activity Plan (07/01/2015 – 06/30/2017)

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☑ PUBLICLY AVAILABLE ☐ NON-PUBLICLY AVAILABLE ☐ SENSITIVE ☑ NON-SENSITIVE SUNSI REVIEW COMPLETE ADAMS:

☐ Yes ACCESSION NUMBER: □ FORM 665 ATTACHED OFFICE RII:DRP RII:DRP SIGNATURE SON SDR2 NAME SNinh SRose DATE 8/25/2015 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\4DMIN WORKING FOLDER\LETTERS\VC SUMMER MID-CYCLE LTR 2015.DOCX

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Letter to Thomas D. Gatlin from Steven D. Rose dated September 1, 2015.

SUBJECT: MID-CYCLE LETTER FOR VIRGIL C. SUMMER NUCLEAR STATION UNIT 1 - NRC ASSESSMENT REPORT 05000395/2015005

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Summer Inspection / Activity Plan

09/01/2015 - 06/30/2017

Unit **Planned Dates** No. of Staff Number End Start Inspection Activity Title on Site - EP EXERCISE EΡ 7 IP 7111401 **Exercise Evaluation** 09/21/2015 09/25/2015 Emergency Action Level and Emergency Plan Changes 09/21/2015 09/25/2015 IP 7111404 09/21/2015 IP 71151 Performance Indicator Verification 09/25/2015 RP - RP RAD HAZARDS ASSESSMENT 10/05/2015 10/09/2015 IP 71124.01 Radiological Hazard Assessment and Exposure Controls ISI - UNIT 1 IN-SERVICE INSPECTION 1 IP 7111108P Inservice Inspection Activities - PWR 10/12/2015 10/16/2015 MODS - PLANT MODIFICATIONS INSPECTION 3 05/23/2016 05/27/2016 IP 7111117T Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications 06/06/2016 06/10/2016 IP 7111117T OL EXAM - INITIAL LICENSE EXAM PREP 3 05/13/2016 V23471 SUMMER U1/JUNE 2016 INITIAL EXAM AT POWER FACILITIES 05/09/2016 OL EXAM - INITIAL LICENSE EXAM 3 06/10/2016 V23471 SUMMER U1/JUNE 2016 INITIAL EXAM AT POWER FACILITIES 06/06/2016 HS - TRIENNIAL HEAT SINK PERFORMANCE Heat Sink Performance IP 7111107T 06/20/2016 06/24/2016 RP - RP PUBLIC RAD SAFETY BASELINE IP 71124.01 Radiological Hazard Assessment and Exposure Controls 07/18/2016 07/22/2016 Radioactive Gaseous and Liquid Effluent Treatment 07/18/2016 07/22/2016 IP 71124.06 Radiological Environmental Monitoring Program 07/18/2016 07/22/2016 IP 71124.07 Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation 07/18/2016 07/22/2016 IP 71124.08 IP 71151 Performance Indicator Verification 07/18/2016 07/22/2016 PI&R - PROBLEM IDENTIFICATION AND RESOLUTION 08/29/2016 09/02/2016 IP 71152B Problem Identification and Resolution Problem Identification and Resolution 09/12/2016 09/16/2016 IP 71152B EΡ - EP PROGRAM INSPECTION IP 7111402 Alert and Notification System Testing 09/26/2016 09/30/2016 09/26/2016 09/30/2016 IP 7111403 Emergency Preparedness Organization Staffing and Augmentation System Emergency Action Level and Emergency Plan Changes 09/26/2016 09/30/2016 IP 7111404 Correction of Emergency Preparedness Weaknesses and Deficiencies 09/26/2016 IP 7111405 09/30/2016 09/26/2016 09/30/2016 IP 71151 Performance Indicator Verification

This report does not include INPO and OUTAGE activities.

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

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Summer Inspection / Activity Plan

09/01/2015 - 06/30/2017

Number	Start	End			No. of Staff
		Ellu	Inspection Acti	vity	on Site
TFPI - TRIENNIAL FIRE PROTECTION INSPECTION					4
1	10/03/2016	10/07/2016	IP 7111105T	Fire Protection [Triennial]	
1	10/17/2016	10/21/2016	IP 7111105T	Fire Protection [Triennial]	
			ISI - L	JNIT 1 IN-SERVICE INSPECTION & RVH EXAM	2
1	04/17/2017	04/21/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			RP - F	RP OCCUPATIONAL INSPECTION WEEK 1	2
1	04/24/2017	04/28/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/24/2017	04/28/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/24/2017	04/28/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/24/2017	04/28/2017	IP 71124.04	Occupational Dose Assessment	
1	04/24/2017	04/28/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	04/24/2017	04/28/2017	IP 71151	Performance Indicator Verification	
			SGISI - L	INIT 1 SG IN-SERVICE INSPECTION	1
1	04/24/2017	04/28/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			RP - F	RP OCCUPATIONAL INSPECTION WEEK 2	3
1	05/08/2017	05/12/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	05/08/2017	05/12/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/08/2017	05/12/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/08/2017	05/12/2017	IP 71124.04	Occupational Dose Assessment	
1	05/08/2017	05/12/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	05/08/2017	05/12/2017	IP 71151	Performance Indicator Verification	