



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

September 25, 2018

Mr. Daniel G. Stoddard
Senior Vice President
and Chief Nuclear Officer
Virginia Electric and Power Company
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

**SUBJECT: NORTH ANNA POWER STATION, UNITS 1 AND 2 – U.S. NUCLEAR
REGULATORY COMMISSION SECURITY TARGET SET INSPECTION
REPORT NO. 05000338/2018411 AND 05000339/2018411**

Dear Mr. Stoddard:

On September 13, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed a security inspection at your North Anna Power Station, Units 1 and 2 and the NRC inspectors discussed the results of this inspection with Mr. Larry Lane, Site Vice President and other members of your staff. The results of this inspection are documented in the enclosed report.

The inspection examined activities conducted under your license as they relate to security and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

The NRC inspectors did not identify any finding or violation of more than minor significance.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding." If you choose to provide a response that contains Security-Related Information, please mark your entire response "Security-Related Information–Withhold from public disclosure under 10 CFR 2.390" in accordance with 10 CFR 2.390(d)(1) and follow the instructions for withholding in 10 CFR 2.390(b)(1).

The NRC is waiving the affidavit requirements for your response in accordance with 10 CFR 2.390(b)(1)(ii).

Sincerely,

/RA/

Scott M. Shaeffer, Chief
Engineering Branch 2
Division of Reactor Safety

Docket No. 50-338 & 50-339
License No. NPF-4 & NPF-7

Enclosure:
Inspection Report 05000338/2018411
and 05000339/2018411

cc: Distribution via Listserv

SUBJECT: NORTH ANNA POWER STATION, UNITS 1 AND 2 – U.S. NUCLEAR REGULATORY COMMISSION SECURITY TARGET SET INSPECTION REPORT NO. 05000338/2018411 AND 05000339/2018411

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**U.S. NUCLEAR REGULATORY COMMISSION
Region II
Inspection Report**

Docket Number(s): 50-338 & 50-339

License Number(s): NPF-4 & NPF-7

Report Number(s): 05000338/2018411 & 05000339/2018411

Enterprise Identifier: I-2018-411-0023

Licensee: Virginia Electric and Power Company (VEPCO)

Facility: North Anna Power Station, Units 1 and 2

Location: Mineral, VA 23117

Inspection Dates: September 11-13, 2018

Inspectors: W. Monk, Reactor Inspector (Lead Inspector)
D. Strickland, Reactor Inspector

Approved By: Scott M. Shaeffer, Chief
Engineering Branch 2
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring Virginia Electric and Power Company's (VEPCO) performance by conducting a Review of Power Reactor Target Sets inspection at the North Anna Power Station, Units 1 and 2, in accordance with the Reactor Oversight Process (ROP). The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

No findings or more than minor violations were identified.

INSPECTION SCOPE

Inspections were conducted using the appropriate portions of the inspection procedure (IP) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase" and IMC 2201, "Security Inspection Program for Commercial Nuclear Power Reactors." The inspectors reviewed selected procedures and records, observed activities, conducted plant walk-downs, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and industry standards.

SAFEGUARDS

71130.14 - Review of Power Reactor Target Sets (1 Sample)

Review of Events and Logs (Section 02.01)

The inspectors reviewed licensee event reports, safeguards log entries, and corrective action program entries since the last Target Set inspection that concern the target set identification and development program.

Target Set Identification and Development Process Review (Section 02.02)

The inspectors assessed the licensee's documentation and maintenance of the process used to develop and identify complete and accurate target sets as required by 10 CFR Part 73 by reviewing applicable portions of procedures and samples of records and conducting interviews with responsible personnel and plant employees.

Verification of Target Sets Changes (Section 02.03)

The inspectors reviewed changes to the licensee's documented target sets since the last Target Set inspection. The inspectors verified that any design modifications and procedure or configuration changes that have occurred were appropriately documented in target sets.

Verification of Complete and Accurate Target Sets (Section 02.04)

The inspectors interviewed licensee personnel and reviewed a sample of target sets for reactor operation and for modes other than operation. The inspectors reviewed assumptions used in the licensee's development of its target sets.

Physical Protection Program Review (Section 02.05)

The inspectors verified that the licensee performed a review of target sets for accuracy, completeness, and applicability at least every 24 months and as otherwise required, documented the results and recommendations, and entered findings in the site's corrective action program (CAP).

INSPECTION RESULTS

71130.14 Review of Power Reactor Target Sets

No findings or more than minor violations were identified.

EXIT MEETINGS AND DEBRIEFS

On September 13, 2018, the inspectors presented the inspection results to Mr. Larry Lane, Site Vice President and other members of the licensee staff. The inspectors verified no proprietary information nor safeguards information was retained.

DOCUMENTS REVIEWED

Corrective Action Documents Written as a Result of the Inspection CR 1105170, 9/13/2018

Procedures

0-AP-9, Station Security – Operations Response, Rev. 12
 0-AP-27, Spent Fuel Pool Heat-Up Rate Following Loss of Cooling, Rev. 26
 1-OP-5.4, Draining the Reactor Coolant System, Rev. 81
 2-OP-5.4, Draining the Reactor Coolant System, Rev. 76
 SY-AA-106, Control of Safeguards Information, Security-Related Information, and Controlled Unclassified Information, Rev. 15
 SY-AA-109, Security Compliance Reviews and Screenings, Rev. 3
 SY-AA-TR-202, Target Set Development, Identification, and Maintenance, Rev. 9

Corrective Action Documents

CA 3032029, 5/23/2016
 CA 3035829, 7/15/2016
 CA 3046900, 12/22/2016
 CA 3051714, 3/02/2017
 CA 3082756, 12/18/2017
 CR 1038019, 5/19/2016
 CR 1042411, 7/14/2016
 CR 1042439, 7/15/2016
 CR 1055378, 12/07/2016
 CR 1085939, 12/13/2017

Miscellaneous Documents

PIR 1019513, Security Pre-Baseline Inspection Assessment, 6/10/2016
 MODULE NCRODP-26-NA, Feedwater System, 8/16/2002
 North Anna Power Station Units 1 & 2 Target Set Notebook
 North Anna Spent Fuel Pool Time to 200 F, 03/14/2018