

R. Drayton Pitts Site Vice President Vogtle Units 1-2

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January 8, 2021

Docket No: 50-425

NL-20-1407

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555-0001

> Vogtle Electric Generating Plant - Unit 2 Licensee Event Report 2020-001-00 Transformer failure leads to main generator trip and subsequent reactor trip

Ladies and Gentlemen:

In accordance with the requirements of 10 CFR 50.73(a)(2)(iv)(A), Southern Nuclear Operating Company is submitting the enclosed Licensee Event Report, 2020-001-00 for Vogtle Electric Generating Plant Unit 2. This letter contains no NRC commitments. If you have any questions, please contact Matthew Horn at (706) 848-1544.

Respectfully submitted,

Drayton Pitts Site Vice President

Vogtle 1&2

RDP/KCW

Enclosure: Unit 2 Licensee Event Report 2020-001-00

Cc: Regional Administrator

NRR Project Manager - Vogtle 1 & 2 Senior Resident Inspector - Vogtle 1 & 2

RType: CVC7000

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Vogtle Electric Generating Plant – Unit 2 Licensee Event Report 2020-001-00 Transformer failure leads to main generator trip and subsequent reactor trip

Enclosure

Unit 2 Licensee Event Report 2020-001-00

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U.S. NUCLEAR REGULATORY COMMISSION | APPROVED BY OMB: NO. 3150-0104

EXPIRES: 08/31/2023



LICENSEE EVENT REPORT (LER)

(See Page 3 for required number of digits/characters for each block)

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Library, and Information Collections Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects Resource@nrc.gov, and the OMB reviewer at OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk ail: oira.submission@omb.eop.gov. The NRC may not conduct or

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U.S. NUCLEAR REGULATORY COMMISSION | APPROVED BY OMB: NO. 3150-0104

EXPIRES: 08/31/2023



LICENSEE EVENT REPORT (LER) **CONTINUATION SHEET**

(See NUREG-1022, R.3 for instruction and guidance for completing this form https://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)

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1. FACILITY NAME	2. DOCKET NUMBER		3. LER NUMBER				
Vogtle Electric Generating Plant	05000425	YEAR	SEQUENTIAL NUMBER	REV NO.			
		2020	- 001	- 00			

NARRATIVE

Event Description

On November 12, 2020 at approximately 1732 EST with Unit 2 in Mode 1 and 100 percent power, the reactor automatically tripped due to a generator trip and subsequent turbine trip. The reason for the generator trip was a fault in the B-phase main step-up transformer (XFMR), Siemens model 351-18210. This caused the generator to trip. Due to the generator and turbine trip, the reactor tripped.

There were no other Structures, Systems, or Components (SSCs) that were out of service that were inoperable at the beginning of the event and contributed to the event.

Due to the automatic Reactor Protection System (RPS)[JC] actuation and the automatic actuation of the Auxiliary Feedwater (AFW)[BA] system, this event is being reported in accordance with 10 CFR 50.73(a)(2)(iv)(A).

Cause of Event

The cause of the main step-up transformer fault was an internal fault around the Deenergized Tap Changer (DETC). There were no previous indications that there were any issues with this transformer.

Safety Assessment

The main step-up transformers serves no safety related purpose for the unit. When the transformer failed, all the appropriate safety systems responded as designed. The generator, turbine, reactor, and Auxiliary Feedwater system operated as expected; all the control rods fully inserted into the core. The operating crew performed as expected. The event was within the analysis of the Updated Final Safety Analysis Report Chapter 15. There was no release of radioactivity. This event did not pose a threat to the health and safety of the public. Therefore, the safety significance of this issue is very low.

Corrective Actions

The faulted transformer was removed from service and the switchyard was realigned to place the spare main step-up transformer into service. The remaining main step-up and the spare step-up transformers were thoroughly checked while the unit was offline to ensure that there were no abnormal indications, and none were found.

E. Previous Similar Events None