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December 10, 2014

Docket No: 50-425

NL-14-1869

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

Vogtle Electric Generating Plant – Unit 2
Licensee Event Report 2014-003-00
Manual Reactor Trip Due to Out of Sequence Control Rod Movement

Ladies and Gentlemen:

In accordance with the requirements of 10 CFR 50.73(a)(2)(iv)(A), Southern Nuclear Operating Company (SNC) is submitting the enclosed Licensee Event Report, 2-2014-003. This letter contains no NRC commitments. If you have any questions, please contact George Gunn at (706) 848-3596.

Respectfully submitted,

A handwritten signature in black ink, appearing to be "BKT", written over a horizontal line.

B. Keith Taber
Site Vice President - Vogtle

BKT/KCW

Enclosure: Unit 2 Licensee Event Report 2014-003-00

cc: Southern Nuclear Operating Company

Mr. S. E. Kuczynski, Chairman, President & CEO
Mr. D. G. Bost, Executive Vice President & Chief Nuclear Officer
Mr. D. R. Madison, Vice President – Fleet Operations
Mr. M. D. Meier, Vice President – Regulatory Affairs
Mr. B. K. Taber, Vice President – Vogtle 1 & 2
Mr. B. J. Adams, Vice President – Engineering
Mr. G.W. Gunn, Regulatory Affairs Manager – Vogtle 1 & 2 (Acting)
RType: CVC7000

U. S. Nuclear Regulatory Commission

Mr. V. M. McCree, Regional Administrator
Mr. R. E. Martin, NRR Senior Project Manager – Vogtle 1 & 2
Mr. L. M. Cain, Senior Resident Inspector – Vogtle 1 & 2

Vogtle Electric Generating Plant – Unit 2
Licensee Event Report 2014-003-00
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Enclosure

Unit 2 Licensee Event Report 2014-003-00



LICENSEE EVENT REPORT (LER)

(See Page 2 for required number of digits/characters for each block)

Estimated burden per response to comply with this mandatory collection request: 60 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

1. FACILITY NAME Vogtle Electric Generating Plant	2. DOCKET NUMBER 05000425	3. PAGE 1 OF 3
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4. TITLE
Unit 2 Manual Reactor Trip Due To Out Of Sequence Control Rod Movement

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
10	12	2014	2014	003	00	12	11	2014	N/A	
									FACILITY NAME	DOCKET NUMBER
									N/A	

9. OPERATING MODE **11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)**

2	<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.73(a)(2)(i)(C)	<input type="checkbox"/> 50.73(a)(2)(vii)
	<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)
	<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)
	<input type="checkbox"/> 20.2203(a)(2)(i)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)
10. POWER LEVEL	<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input checked="" type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)
	<input type="checkbox"/> 20.2203(a)(2)(iii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	<input type="checkbox"/> 73.71(a)(4)
	<input type="checkbox"/> 20.2203(a)(2)(iv)	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.71(a)(5)
	<input type="checkbox"/> 20.2203(a)(2)(v)	<input type="checkbox"/> 50.73(a)(2)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> OTHER
	<input type="checkbox"/> 20.2203(a)(2)(vi)	<input type="checkbox"/> 50.73(a)(2)(i)(B)	<input type="checkbox"/> 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A

12. LICENSEE CONTACT FOR THIS LER

LICENSEE CONTACT Vogtle Electric Generating Plant, Kevin Walden, Licensing Engineer	TELEPHONE NUMBER (Include Area Code) 706-848-4290
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13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX

14. SUPPLEMENTAL REPORT EXPECTED <input type="checkbox"/> YES (If yes, complete 15. EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	15. EXPECTED SUBMISSION DATE	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

On October 12, 2014 at approximately 0944 EST, while performing Unit 2 reactor startup, control rods were being inserted to stabilize Rx power for Low Power Physics Testing. With the rod bank selector switch in Manual, operators observed control bank A inserting instead of the expected D bank inserting. Operators took action to trip the reactor and stabilize the plant. The cause of this event was incorrect setup of the Rod Bank Overlap unit.

Upon tripping the reactor, plant systems responded per design and Unit 2 was stabilized in Mode 3. Unit 1 was not affected and there were no adverse effects on the health and safety to the public. Therefore, the safety significance of this event is very low.



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

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, Privacy and Information Collections Branch (T-6 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to InfoCollect.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

1. FACILITY NAME	2. DOCKET	6. LER NUMBER			3. PAGE
Vogtle Electric Generating Plant	05000425	YEAR	SEQUENTIAL NUMBER	REV NO.	2 OF 3
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NARRATIVE

A. REQUIREMENT FOR REPORT

This report is required per 10CFR 50.73(a)(2)(iv)(A) due to an unplanned manual actuation of the Reactor Protection System (RPS).

B. UNIT STATUS AT TIME OF EVENT

Mode 2, 1 percent power

C. DESCRIPTION OF EVENT

While performing Low Power Physics Testing after refueling outage 2R17, operators attempted to stabilize reactor power by inserting Control Rod Control Bank D, however Control Bank A inserted instead. When Control Bank A stepped in after confirming the rods were in manual operation, operators manually tripped Unit 2. All control rods fully inserted into the core and the plant was stabilized in Mode 3. There were no complications during the trip as all systems responded as designed and decay heat was discharged to the condenser.

Upon further investigation it was determined that the Rod Bank Overlap unit was set up incorrectly. This caused the control rods to insert out-of-sequence. The +1 pushbutton should be used to toggle bank overlap unit to the proper setting when the control rods are set up following an outage. Instead, the -1 pushbutton was used which caused the Rod Bank Overlap unit to insert the incorrect bank of control rods when demanded.

D. CAUSE OF THE EVENT

The cause of the event was incorrect setup of the Rod Bank Overlap unit, which resulted in the control rods inserting out of sequence. Human error in conjunction with procedural weakness was the cause of the incorrect setup of the Rod Bank Overlap unit.

E. SAFETY ASSESSMENT

When the reactor was tripped, all control rods fully inserted into the core. At the time, Reactor Coolant System heat removal via auxiliary feedwater was in operation and continued. Decay heat was discharged to the condenser and Unit 2 was stabilized in Mode 3. The plant responded as designed and there were no complications. There were no adverse effects on plant safety or the health and safety of the public. Therefore, this event is of very low safety significance.

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

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NARRATIVE

F. CORRECTIVE ACTION

A Human Performance Review Board was conducted and crew stand downs were held to emphasize the expectation and importance of following procedures as written and the importance of maintaining proper supervisory oversight. In addition, the procedure used to control Bank Overlap unit setup is being revised to strengthen the information about the Rod Bank Overlap Unit and the -1 and +1 pushbuttons. Plant labeling will be installed to provide improved direction to the operators on the use of the pushbuttons and direct them to the procedure for additional information. This event will be included in Licensed Operator training.

G. ADDITIONAL INFORMATION

1) Failed Components:

None

2) Previous Similar Events:

None found

3) Energy Industry Identification System Code:

[JC] – Reactor Protection System