

B. Keith Taber Vice President Vogtle Units 1-2 7821 River RD Waynesboro GA, 30830 706-848-0004 tel 706-848-3321 fax

MAY 2 8 2019

Docket No: 50-425

NL-19-0552

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

## Vogtle Electric Generating Plant – Unit 2 Licensee Event Report 2019-001-00 Spurious Closure of Main Steam Isolation Valve results in Manual 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, 2019-001-00 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,

B

B. Keith Taber Vice President Vogtle 1&2

BKT/KCW

Enclosure: Unit 2 Licensee Event Report 2019-001-00

Cc: Regional Administrator NRR Project Manager – Vogtle 1 & 2 Senior Resident Inspector – Vogtle 1 & 2 RType: CVC7000

## Vogtle Electric Generating Plant – Unit 2 Licensee Event Report 2019-001-00 Spurious Closure of Main Steam Isolation Valve results in Manual Reactor Trip

Enclosure

Unit 2 Licensee Event Report 2019-001-00

LICENSEE EVENT REPORT (LER)         Estimated busine program (busine reguests)         Reported busine program (busines)         Reported busines)         Reported busines	NRC FO	RM 366			U.S. NU	CLEAR RE	GULATOR	YCOM	ISSION	APPROVED BY OMB: NO. 3150-0104 EXPIRES: 03/31/2020					
Interformer         Interformer <thinterformer< th=""> <thinterformer< th=""></thinterformer<></thinterformer<>	(04-2018) 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: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects.Resource@ncr.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget.					
1. Facility Name       2. Docket Number       0.5000425       1. OF 2         4. Title       05000425       1. OF 2         5. Event Date       6. LER Number       7. Report Date       8. Other Facilities Involved         5. Event Date       6. LER Number       7. Report Date       8. Other Facilities Involved         6. Other Mumber       Number       7. Report Date       8. Other Facilities Involved         6. Other Specifies       8. UP       Number       7. Report Date       8. Other Facilities Involved         9. Opening Mode       11. The Reports Submitted Pustaumt bit Requirements of 10 CFR §; (Check all Indept)       1       0.0 cs £ 2.8 2.01 9       Facility Name       0.0cket Number         1.0 C 20 2201(b)       2.0 2203(a)(3)(0       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A)         1       2.0 2203(a)(2)(0       50.35(a)(2)(0)(A)       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A)         1       2.0 2203(a)(2)(0       50.35(a)(2)(0)(A)       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A)         2.0 2203(a)(2)(0)       50.35(a)(2)(0)(A)       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A)         2.0 2203(a)(2)(0)       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A)       50.73(a)(2)(0)(A) <t< td=""><td>****</td><td>¢<sup>#</sup>΄ '</td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="6">display a currently valid OMB control number, the NRC may not conduct or sponsor, and a</td></t<>	****	¢ <sup>#</sup> ΄ '							display a currently valid OMB control number, the NRC may not conduct or sponsor, and a						
4. Title Spurious Closure of Main Steam Isolation Valve results in Manual Reactor Trip  5. Event Date 6. LER Number 7. Report Date 7. Report Date 8. Other Facilities Involved Docket Number 05000 03 30 2019 2019 -001 -00 0 5 2 8 2 2019 Facility Name N/A 05000 8. Opensing Node 11. This Report is Submitted Pursuant to the Regularements of 10 CFR § (Check all that app)  6. Opensing Node 11. This Report is Submitted Pursuant to the Regularements of 10 CFR § (Check all that app)  1 0 20 2201(b) 20 2020(a)(3)(b) 20 2020(a)(3)(b) 20 2020(a)(3)(b) 20 2020(a)(3)(b) 20 2020(a)(3)(b) 20 2020(a)(2)(b) 20 2				erating	Plant	Unit 2			. Docket Number 3. Page				2		
Month         Day         Year         Sequential Number         Rev No.         Month         Day         Year         Facility Name N/A         Docket Number         Docket Number           03         30         2019         2019         -001         -00 <i>a S p S p c</i> 01 <sup>4</sup> Pacility Name N/A         Docket Number           0         0.0 <i>s S p S p S p s f c</i> 01/19         Docket Number           1	4. Title						tion Valv	ve res	ults in	Manual Rea	ctor Trip				
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<ul> <li>20.2203(a)(1)</li> <li>20.2203(a)(2)(ii)</li> <li>50.73(a)(2)(iii)</li> <li>50.73(a)(2)(ix)(A)</li> <li>50.73(a)(2)(ix)(B)</li> <li>73.77(a)(1)</li> <li>20.2203(a)(2)(ix)</li> <li>50.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(D)</li> <li>73.77(a)(2)(iii)</li> <li>20.2203(a)(2)(ix)</li> <li>50.73(a)(2)(ix)(D)</li> <li>73.77(a)(2)(iii)</li> <li>20.2203(a)(2)(ix)</li> <li>50.73(a)(2)(ix)(D)</li> <li>73.77(a)(2)(iii)</li> <li>20.2203(a)(2)(ix)</li> <li>50.73(a)(2)(ix)(D)</li> <li>73.77(a)(2)(iii)</li> <li>20.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(D)</li> <li>73.77(a)(2)(iii)</li> <li>20.2203(a)(2)(ix)</li> <li>50.73(a)(2)(ix)(D)</li> <li>73.77(a)(2)(iii)</li> <li>20.2203(a)(2)(ix)</li> <li>50.73(a)(2)(ix)(D)</li> <li>20.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(B)</li> <li>50.73(a)(2)(ix)(B)</li></ul>	1	Service Server		20.2	201(b)					50.73(a)(2)	50.7	3(a)(2)(v	iii)(A)		
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<sup>2</sup> 0.2203(a)(2)(v) <sup>5</sup> 0.73(a)(2)(0)(A) <sup>5</sup> 0.73(a)(2)(v)(D) <sup>7</sup> 3.77(a)(2)(ii) <sup>7</sup> 3.77(a)(2)(iii) <sup>7</sup> 3.77(a)(2)(2)(iii) <sup>7</sup> 3.77(	030														
20.2203(a)(2)(vi)       50.73(a)(2)(0)(B)       50.73(a)(2)(vii)       73.77(a)(2)(2)(ii)         Image: contact       Image: contact for this LER       Image: contact for this LER         Incensee Contact       Image: contact for this LER       Telephone Number (Include Area Code)         Incensee Contact       Togete Electric Generating Plant, Matthew Horn, Regulatory Affairs Manager       Togete Area Code)         Incensee Contact       Togete One Line for each Component Failure Described in this Report       Togete Area Code)         Cause       System       Component       Manufacturer       Reportable To ICES         B       SB       RLY       T351       Y       N/A       Month       Day       Year															
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12. Licensee Contact for this LER         Idensee Contact for this LER         Telephone Number (Include Area Code)         /ogtle Electric Generating Plant, Matthew Horn, Regulatory Affairs Manager       706-848-1544         Total System         Compose Line for each Component Failure Described in this Report         Cause       System       Component       Manufacturer       Reportable To ICES       Cause       System       Component       Manufacturer       Reportable To ICES         B       SB       RLY       T351       Y       N/A       Manufacturer       Reportable To ICES         Image: the system       Component       Manufacturer       Reportable To ICES       Cause       System       Component       Manufacturer       Reportable To ICES         B       SB       RLY       T351       Y       N/A       MA       Manufacturer       Reportable To ICES         Image: the system       Component Expected       Image: the system       Month       Day       Year         14.       Supplemental Report Expected       Image: the system       N/A       N/A       N/A         On March 30, 2019 at 2130, while Unit 2 was in Mode 1 and 30 percent power, exiting a refueling outage, when one of the Main Steam Isolation Valves (MSIV) fail															
Telephone Number (Include Area Code)         /ogtle Electric Generating Plant, Matthew Horn, Regulatory Affairs Manager       ToleB48-1544         ToleB48-1544         13. Complete One Line for each Component Failure Described in this Report         Cause       System       Component       Manufacturer       Reportable To ICES         Cause       System       Component       Manufacturer       Reportable To ICES         B       SB       RLY       T351       Y       N/A       Month       Day       Year         14. Supplemental Report Expected       Month       Day       Year         Yea (If yes, complete 15. Expected Submission Date)       No       Month       Day       Year         N/A       N/A       N/A       N/A       N/A         Month       Day       Year         Year       N/A       N/A       N/A       N/A       N/A	-			L							ony in rubor dot bi		oronn		
13. Complete One Line for each Component Failure Described in this Report         Cause       System       Component       Manufacturer       Reportable To ICES       Cause       System       Component       Manufacturer       Reportable To ICES         B       SB       RLY       T351       Y       N/A       Manufacturer       Reportable To ICES         14. Supplemental Report Expected       14. Supplemental Report Expected       Month       Day       Year         Ves (If yes, complete 15. Expected Submission Date)       No       No       N/A       N/A       N/A         On March 30, 2019 at 2130, while Unit 2 was in Mode 1 and 30 percent power, exiting a refueling outage, when one of the Main Steam Isolation Valves (MSIV) failed closed unexpectedly. This resulted in an inability to maintain Steam Generator SG) levels and pressures. The unit was manually tripped. All systems responded as designed. All control rods fully nserted into the core, auxiliary feedwater was started, and decay heat was removed through the main steam lines through the steam dumps and into the condenser. The plant was stabilized in Mode 3.         Due to the manual actuation of systems listed in 10 CFR 50.73(a)(2)(iv)(B), specifically the Reactor Protection System and the Auxiliary Feedwater System, this event is reportable under 10 CFR 50.73(a)(2)(iv)(A).         Because all systems responded as designed and had no adverse effects on the health and safety of the public, this event is	-		Genera	ting Pla	nt Ma	tthew Ho							e Area Code	9)	
B       SB       RLY       T351       Y       N/A         14. Supplemental Report Expected         Image: I									and the second sec	and the second se	his Report				
14. Supplemental Report Expected         Month       Day       Year         15. Expected Submission Date       Month       Day       Year         No       15. Expected Submission Date       N/A       N/A       N/A         No       The second submission Date       N/A       N/A       N/A         Dim March 30, 2019 at 2130, while Unit 2 was in Mode 1 and 30 percent power, exiting a refueling outage, when one of the Main Steam Isolation Valves (MSIV) failed closed unexpectedly. This resulted in an inability to maintain Steam Generator         SG) levels and pressures. The unit was manually tripped. All systems responded as designed. All control rods fully nserted into the core, auxiliary feedwater was started, and decay heat was removed through the main steam lines through the steam dumps and into the condenser. The plant was stabilized in Mode 3.         Due to the manual actuation of systems listed in 10 CFR 50.73(a)(2)(	Ca	use	System	Compo	onent	Manufacture	Reportable To ICES			System	System Component Manufac		urer Reportable To ICES		
Yes (If yes, complete 15. Expected Submission Date)       No         15. Expected Submission Date       N/A       N/A         No       N/A       N/A         No       N/A       N/A       N/A         No       No       N/A       N/A         No       No       N/A       N/A       N/A         No       National Stress (Immunol 100 spaces, i.e., approximately 14 single-spaced typewritten lines)       No       N/A       N/A         On March 30, 2019 at 2130, while Unit 2 was in Mode 1 and 30 percent power, exiting a refueling outage, when one of the Main Steam Isolation Valves (MSIV) failed closed unexpectedly. This resulted in an inability to maintain Steam Generator SG) levels and pressures. The unit was manually tripped. All systems responded as designed. All control rods fully nserted into the core, auxiliary feedwater was started, and decay heat was removed through the main steam lines through the steam dumps and into the condenser. The plant was stabilized in Mode 3.         Due to the manual actuation of systems listed in 10 CFR 50.73(a)(2)(iv)(B), specifically the Reactor Protection System and the Auxiliary Feedwater System, this event is reportable under 10 CFR 50.73(a)(2)(iv)(A).         Because all systems responded as designed and had no adverse effects on the health and safety of the public, this event is	E	3	SB	RL	Y	T351	Y	·	N/A						
Yes (If yes, complete 15. Expected Submission Date) No No Normately 14 single-spaced typewritten lines) Dn March 30, 2019 at 2130, while Unit 2 was in Mode 1 and 30 percent power, exiting a refueling outage, when one of the Main Steam Isolation Valves (MSIV) failed closed unexpectedly. This resulted in an inability to maintain Steam Generator SG) levels and pressures. The unit was manually tripped. All systems responded as designed. All control rods fully nserted into the core, auxiliary feedwater was started, and decay heat was removed through the main steam lines through the steam dumps and into the condenser. The plant was stabilized in Mode 3. Due to the manual actuation of systems listed in 10 CFR 50.73(a)(2)(iv)(B), specifically the Reactor Protection System and the Auxiliary Feedwater System, this event is reportable under 10 CFR 50.73(a)(2)(iv)(A). Because all systems responded as designed and had no adverse effects on the health and safety of the public, this event is		14.	Suppleme	ental Rep	ort Exp	ected						Month	Day	Year	
Abstract (Limit to 1400 spaces, i.e., approximately 14 single-spaced typewritten lines) On March 30, 2019 at 2130, while Unit 2 was in Mode 1 and 30 percent power, exiting a refueling outage, when one of the Main Steam Isolation Valves (MSIV) failed closed unexpectedly. This resulted in an inability to maintain Steam Generator SG) levels and pressures. The unit was manually tripped. All systems responded as designed. All control rods fully inserted into the core, auxiliary feedwater was started, and decay heat was removed through the main steam lines through the steam dumps and into the condenser. The plant was stabilized in Mode 3. Due to the manual actuation of systems listed in 10 CFR 50.73(a)(2)(iv)(B), specifically the Reactor Protection System and the Auxiliary Feedwater System, this event is reportable under 10 CFR 50.73(a)(2)(iv)(A). Because all systems responded as designed and had no adverse effects on the health and safety of the public, this event is		Yes (If y	es. comple	te 15. Ext	pected S	ubmission (	Date) 🕅 M	No	15.	15. Expected Submission Date N/A N/A				N/A	
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(04-20 (Se	LICENSEE EVENT RI CONTINUATION S en NUREG-1022, R.3 for instruction and guidance http://www.nrc.gov/reading-rm/doc-collections/nur	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 Information Services Branch (T-2 F43), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by 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 mean sused to impose an information collecton does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a									
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Vo	gtle Electric Generating Plant, Unit 2	05000425		YEAR	SEQUENTIAL NUMBER	REV NO						
				2019	- 001	- 00						
	<ul> <li>NARRATIVE</li> <li>A. Event Description On March 30, 2019 at 2130, while Unit 2 was operating in Mode 1 at 30 percent power, exiting a refueling outage, when the number 4 Main Steam Isolation Valve (MSIV) unexpectedly closed due to the failure of a control relay coil. The control relay had been recently installed and passed its post-maintenance testing and had been energized for several days prior to the failure, which is its normal operating state. The operating crew attempted to reopen the valve, but this was unsuccessful. Because they were unable to reopen the valve, the operating crew initiated a manual reactor trip. This resulted in a manual actuation of the Reactor Protection System and actuation of the Auxiliary Feedwater System. All systems responded as expected. The control rods fully inserted into the core, auxiliary feedwater was started, and decay heat was removed through the main steam lines, through the steam dumps, and into the condenser. Because of the manual actuation of the Reactor Protection System and the Auxiliary Feedwater System, which are systems listed in 10 CFR 50.73(a)(2)(iv)(B), this event is reportable under 10 CFR 50.73(a)(2)(iv)(A).</li></ul>											
В.	<ol> <li>Cause of Event</li> <li>The cause of the event was a failure of a control relay coil due to infant mortality.</li> </ol>											
C.	C. Safety Assessment The safety significance of this event is very low. When the reactor was tripped, all systems responded as designed. All control rods fully inserted into the core, auxiliary feedwater was started, and decay heat was removed through the main steam lines and into the condenser. There were no adverse effects to the health and safety of the public.											
D.	D. Corrective Actions The relay was replaced with another relay from a different manufacturing batch.											
E.	E. Previous Similar Events None											
L												