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January 3, 2017

Docket Nos.: 50-366

NL-16-2794

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

Edwin I. Hatch Nuclear Plant Unit 2  
Licensee Event Report 2016-004-00  
Condition Prohibited by Technical Specifications Due to Inoperable PCIV

Ladies and Gentlemen:

In accordance with the requirements of 10 CFR 50.73(a)(2)(i)(B), Southern Nuclear Operating Company (SNC) hereby submits the enclosed Licensee Event Report.

This letter contains no NRC commitments. If you have any questions, please contact Greg Johnson at 912-537-5874.

Respectfully submitted,

D. R. Vineyard  
Vice President – Hatch

DRV/jcb

Enclosure: LER 2016-004-00

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. Vineyard, Vice President – Hatch  
Mr. M. D. Meier, Vice President – Regulatory Affairs  
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U. S. Nuclear Regulatory Commission

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Mr. M. D. Orenak, NRR Project Manager – Hatch  
Mr. D. H. Hardage, Senior Resident Inspector – Hatch

**Edwin I. Hatch Nuclear Plant Unit 2**

**LER 2016-004-00**

**Condition Prohibited by Technical Specifications Due to Inoperable PCIV**



**LICENSEE EVENT REPORT (LER)**

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

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

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-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [Infocollects.Resource@nrc.gov](mailto: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.

<b>1. FACILITY NAME</b> Edwin I. Hatch Unit 2	<b>2. DOCKET NUMBER</b> 05000366	<b>3. PAGE</b> 1 OF 3
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**4. TITLE**  
Condition Prohibited by Technical Specifications Due to Inoperable PCIV

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
11	07	2016	2016	- 004	- 00	01	04	2017	FACILITY NAME	DOCKET NUMBER

<b>9. OPERATING MODE</b> 1	<b>11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)</b>			
	<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)
	<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)
	<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)
	<input type="checkbox"/> 20.2203(a)(2)(i)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)
<b>10. POWER LEVEL</b> 100	<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	<input type="checkbox"/> 73.71(a)(4)
	<input type="checkbox"/> 20.2203(a)(2)(iii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.71(a)(5)
	<input type="checkbox"/> 20.2203(a)(2)(iv)	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> 73.77(a)(1)
	<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)(D)	<input type="checkbox"/> 73.77(a)(2)(i)
	<input type="checkbox"/> 20.2203(a)(2)(vi)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)(B)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input type="checkbox"/> 73.77(a)(2)(ii)
	<input type="checkbox"/> 50.73(a)(2)(i)(C)	<input type="checkbox"/> OTHER	Specify in Abstract below or in NRC Form 366A	

**12. LICENSEE CONTACT FOR THIS LER**

LICENSEE CONTACT Edwin I. Hatch / Carl James Collins – Licensing Supervisor	TELEPHONE NUMBER (Include Area Code) 912-537-2342
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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
A	BJ	ISV	D245	Y					

<b>14. SUPPLEMENTAL REPORT EXPECTED</b> <input type="checkbox"/> YES (If yes, complete 15. EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	<b>15. EXPECTED SUBMISSION DATE</b>	MONTH	DAY	YEAR
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**ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)**

On November 7, 2016 at 2355 EST, while performing a main control board panel walkdown, it was discovered that the High Pressure Coolant Injection (HPCI) vacuum breaker motor operated isolation valve 2E41F111 had been left in the open position with its breaker turned off. Upon further review of the associated tagout, it was determined that this primary containment isolation valve (PCIV) had been in this inoperable configuration greater than allowed LCO time of 4 hours. The 2E41F111 was then declared inoperable and the 2E41F104 redundant penetration motor operated isolation valve was closed and deactivated to meet the required action per Unit 2 Technical Specifications (TS) LCO 3.6.1.3, Condition A.1.

The inoperable as-found condition of the 2E41F111 PCIV was due to supervision failing to recognize that the tagout preparer did not possess the proper skill set to perform the task. Although the 2E41F111 was left in the open position with its breaker turned off, the manual HPCI turbine exhaust valve 2E41F021 was tagged in the closed position per the tagout instructions. Therefore, closure of the 2E41F021 ensured the affected piping was isolated such that primary containment boundary functions were maintained. Expectations were instituted to ensure individuals assigned with preparing tagouts associated with TS equipment are trained on the basics of TS.



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

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

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		YEAR	SEQUENTIAL NUMBER	REV NO.
Edwin I. Hatch Unit 2	05000-366	2016	- 004	- 00

**NARRATIVE**

**PLANT AND SYSTEM IDENTIFICATION**

General Electric – Boiling Water Reactor  
Energy Industry Identification System codes appear in the text as (EIIS Code XX).

**DESCRIPTION OF EVENT**

On November 7, 2016 at 2355 EST, with Unit 2 at 100 percent rated thermal power (RTP), while performing a main control board panel walkdown, it was discovered that the High Pressure Coolant Injection (HPCI) vacuum breaker motor operated isolation valve 2E41F111 (EIIS Code ISV) had been left in the open position with its breaker turned off. Upon subsequent investigation, it was determined that since the valve provides a primary containment isolation function, it is required for operation in the current plant condition. The 2E41F111 was then declared inoperable and the 2E41F104 redundant penetration motor operated isolation valve was closed and deactivated to meet the required action per Unit 2 Technical Specifications (TS) LCO 3.6.1.3, Condition A.1.

**CAUSE OF EVENT**

The unacceptable as-found condition of the 2E41F111 primary containment isolation valve (PCIV) was due to supervision failing to recognize that the tagout preparer did not possess the proper skill set to perform the task. This led to assigning an individual to prepare the tag out who did not have the appropriate knowledge of basic TS. Additionally, invalid assumptions were made by the tag out reviewer concerning the PCIV TS Bases when rendering a PCIV inoperable.

**REPORTABILITY ANALYSIS AND SAFETY ASSESSMENT**

This event is reportable per 10 CFR 50.73(a)(2)(i)(B) as a condition prohibited by Technical Specifications. Upon review of the tagout, it was determined that the valve had been in a condition prohibited by TS for greater than the 4 hour LCO completion time.

Although the 2E41F111 was left in the open position with its breaker turned off, the manual HPCI turbine exhaust valve 2E41F021 was tagged in the closed position per the tagout instructions. This allowed the associated piping to be isolated such that primary containment boundary functions as assumed in the safety analyses were maintained. However, because the valve is Appendix J, Type A tested instead of being Appendix J, Type C tested this is a condition prohibited by TS per the Unit 2 Hatch TS Bases LCO 3.6.1.3, Condition A.1 which states that the device used to isolate a penetration must be subjected to leakage testing requirements equivalent to the inoperable valve. Therefore, if the inoperable valve is Appendix J, Type C tested, the device used to isolate the associated penetration flow path must also be Appendix J, Type C tested per current Hatch TS Bases. TS required actions were met once the 2E41F104 isolation valve was closed since this valve is also Appendix J, Type C tested. Based on this information, the event is considered to have very low safety significance.

**CORRECTIVE ACTIONS**

Expectations were instituted to ensure individuals assigned with preparing tagouts associated with TS equipment are trained on the basics of TS. Enhancement actions were also taken to label all PCIV equipment in the clearance and tagging database as containment related components. In addition, guidance will be provided to determine when a pre-job brief is required to be conducted before developing a tagout.



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**ADDITIONAL INFORMATION**

Other Systems Affected: None.

Failed Components Information:

Master Parts List Number: 2E41F111  
 Manufacturer: Dresser Industries  
 Model Number: Hancock Type 950 W Motor Operated Gate Valve  
 Type: Isolation Valve  
 Manufacturer Code: D245  
 EIS System Code: BJ  
 Reportable to EPIX: Yes  
 Root Cause Code: A  
 EIS Component Code: ISV

Commitment Information: This report does not create any licensing commitments.

**PREVIOUS SIMILAR EVENTS:**

None.