

Matt Busch Vice President – Plant Hatch Hatch Nuclear Plant 11028 Hatch Parkway North Baxley, GA 31513 912 537 5859 tel 912 366 2077 fax

November 19, 2024

Docket Nos.: 50-321 NL-24-0413

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

Edwin I. Hatch Nuclear Plant
Licensee Event Report 2024-004-00
Unit 1 Manual Reactor Trip During Hurricane Helene Due to Degrading
Condenser Vacuum

Ladies and Gentlemen:

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

This letter contains no NRC commitments. If you have any questions, please contact the Hatch Licensing Manager, Jimmy Collins, at 912.453.2342.

Respectfully submitted,

Matt Busch

Vice President - Hatch

MSB/JMH

Enclosure: LER 2024-004-00

Cc: Regional Administrator, Region II

NRR Project Manager – Hatch Senior Resident Inspector – Hatch

RTYPE: CHA02.004

Edwin I. Hatch Nuclear Plant Licensee Event Report 2024-004-00

Unit 1 Manual Reactor Trip During Hurricane Helene Due to Degrading Condenser Vacuum

Enclosure

LER 2024-004-00

NRC FORM 366 (04-02-2024)

U.S. NUCLEAR REGULATORY COMMISSION

	APPROVE	D BY	OMB:	NO.	3150-	-010
--	---------	------	------	-----	-------	------

EXPIRES: 04/30/2027



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, Library, and Information Collections Branch (T-6 A10M), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to Infocollects.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street MW, Washington, DC 20503. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

1. Facility Name								050 2. Docket Number				3. Page			
Edwin I. Hatch Nuclear Plant Unit 1									052	00321		1	OF	2	
4. Title															
Manual Reactor Trip During Hurricane Helene Due to Degrading Condenser Vacuum															
5. Event Date 6. LER Number 7. Reg						Report	Date			cilities Invo	lved				
Month	Day	Year	Year	Sequen Numb		Revision No.	Month	Day	Year	Facility Nam	ne		050	Docket	Number
09	27	2024	2024	- 004	-	00	11	19	2024	Facility Nan	ne		052	Docket	Number
9. Operati	ng Mode							10). Power Lev	el					
9. Operating Mode 10. Power Level 054															
11. This Report is Submitted Pursuant to the Requirements of 10 CFR §: (Check all that apply)															
10 CFR Part 20 20.2203(a)(2)(vi) 10 CFR Part 50							50.73	3(a)(2)(ii)(A) 50.73(a)(2)(viii)(A) 73.1200(a)					200(a)		
20.2201(b) 20.2203(a)(3)(i) 50.36(c)(1)(i)(A)							50.73	(a)(2)(ii)(B) 50.73(a)(2)(viii)(B) 73.1200(b)					200(b)		
20.2201(d) 20.2203(a)(3)(ii) 50.36(c)(1)(ii)(A) 50.73(a)(2)(iii) 50.73(a)(2)(ix)(A) 73.1200(200(c)						
20.2203(a)(1) 20.2203(a)(4) 50.36(c)(2) V 50.73(a)(2)(iv)(A) 50.73(a)(2)								(2)(x)		73.1	200(d)				
20.2203(a)(2)(i) 10 CFR Part 21				50.46(a)(3)(ii)			50.73	B(a)(2)(v)((v)(A) 10 CFR Part 73			73.1200(e)			
20.2203(a)(2)(ii) 21.2(c)				50.69(g)			50.73	73(a)(2)(v)(B) 73.77(a)(1)			73.1200(f)				
						.73(a)(2)(i)(A)	50.73(a)(2)(v)(C) 73.77(a)(2)(73.1200(g)			
20.2203(a)(2)(iv)				50.73(a)(2)(i)(B)			50.7	73(a)(2)(v)(D) 73.77(a)(2)(ii)			73.1200(h)				
20.2203(a)(2)(v) 50.73(a)(2)(i)(C) 50.73(a)(2)(vii)															
OTHER (Specify here, in abstract, or NRC 366A).															
12. Licensee Contact for this LER															
Licensee Contact Phone Number (Include area code)															
Jimmv Collins - Licensina Manager 9124532342															
13. Complete One Line for each Component Failure Described in this Report															
Cause	Cause System Component Manufact		turer Reportable to IRIS		Cause	Syst	em Component	Component Manufactu		rer Reportable to IRIS					
14. Supplemental Report Expected						15	15 Expected Submission Date			0	ay	Year			
No Yes (If yes, complete 15. Expected Submission Date)						13.	15. Expected Submission Date								
16. Abstract (Limit to 1326 spaces, i.e., approximately 13 single-spaced typewritten lines)															
At 0346 EDT on 9/27/24, with Unit 1 in Mode 1 at approximately 54% power, the reactor was manually tripped due to degrading															

At 0346 EDT on 9/27/24, with Unit 1 in Mode 1 at approximately 54% power, the reactor was manually tripped due to degrading condenser vacuum. The trip was not complex, with all systems responding normally including the closure of containment isolation valves in multiple systems. The Operating crew responded correctly to the event and the plant was stabilized.

The degrading condenser vacuum was caused by debris from Hurricane Helene that accumulated and clogged the circulation water screens of the Unit 1 flume. The circulation water system was shutdown and the debris removed from the Unit 1 circulation water screens.

The event is reportable per 10 CFR 50.73(a)(2)(iv)(A) as any event or condition that resulted in the manual or automatic actuation of any of the systems listed in paragraph (a)(2)(iv)(B) of this section. Systems that actuated during this event that are listed in (a)(2)(iv)(B) include: the Reactor Protection System (RPS) and general Containment Isolation Valves (CIV) in multiple systems.

NRC FORM 366A (04-02-2024)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104

EXPIRES: 04/30/2027



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, Library, and Information Collections Branch (T-6 A10M), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to Infocollects.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.