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Date: April 9, 2024

Docket No.: 50-321

NL-24-0144

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

Edwin I. Hatch Nuclear Plant – Unit 1 Licensee Event Report 2024-001-00 Primary Containment Penetration Exceeded Maximum Allowable Primary Containment Leakage Rate (La)

Ladies and Gentlemen:

In accordance with the requirements of 10 CFR 50.73 (a)(2)(i)(B), 10 CFR 50.73 (a)(2)(ii)(A), and 10 CFR 50.73(a)(2)(v)(C), 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,

Woburl

M.S. Busch Vice President – Hatch

MSB/JMH

Enclosure: LER 2024-001-00

Cc: Regional Administrator, Region II NRR Project Manager – Hatch Senior Resident Inspector – Hatch RTYPE: CHA02.004 Edwin I. Hatch Nuclear Plant Unit 1 Licensee Event Report 2024-001-00 Primary Containment Penetration Exceeded Maximum Allowable Primary Containment Leakage Rate (La)

Enclosure

LER 2024-001-00

| NRC FORM 3 | 366 | 1 | APPRO | APPROVED BY OMB: NO. 3150-0104 EXPIRES: 04/30/202 | | | | | | | | | | | | |
|---|----------------|-----------------|----------------------|---|-------------------|-------------|----------------|---|--|------------------------------|---------------------------|--------------------------|-------------------|------------|-------------|--|
| (04-01-2024) LICENSEE EVENT REPORT (LER) Gee 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-m/doc-collections/nuregs/staff/sr1022/r3/) | | | | | | | | Estimated learned ar estimate t Commissio at: OMB Commissio not require displays a | 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. | | | | | | | |
| 1. Facility Name | | | | | | | | | 050 2. Docket Number | | | | 3. Page | | | |
| Edwin I. Hatch Nuclear Plant Unit 1 | | | | | | | | | 052 | - | 00321 | | 1 | OF | 2 | |
| 4. Title Primary Containment Penetration Exceeded Maximum Allowable Primary Containment Leakage Rate (La) | | | | | | | | | | | | | | | | |
| 5. Eve | ent Date | | 6. LER Number | LER Number | | | 7. Report Date | | | 8. Other Facilities Involved | | | | | | |
| Month D | Month Day Year | | Sequential Number | Revision No. | Month | Month Day | | Year | Facility Name | | | | 050 Docket Number | | | |
| 02 1 | 1 202 | 24 2024 | - 001 - | 00 | 04 | 09 | , | 2024 | Facility Nan | ne | | | 052 | Docket | Number | |
| 9. Operating Mode 10. Power Level 0% | | | | | | | | | | | | | | | | |
| 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) | | | 203(a)(2)(vi) | 10 CFR Part 50 | | | F | 50.73(a)(2)(ii)(A) 50.73(a) | | | |)(2)(viii)(A) 73.1200(a) | | | | |
| 20.2201 | l(b) | 20.2 | 20.2203(a)(3)(i) | | | | T | 50.73 | (a)(2)(ii)(E | 3) | 50.73(a)(2)(viii)(B) | | | 73.12 | 200(b) | |
| 20.2201 | l(d) | 20.2 | 203(a)(3)(ii) |)(3)(ii) 50.36(c)(1)(ii)(A) | | | | 50.73(a)(2)(iii) 50.73(a | | | | 2)(ix)(A) | | 73.12 | 200(c) | |
| 20.2203 | 3(a)(1) | 20.2 | 20.2203(a)(4) | | | 50.36(c)(2) | | 50.73 | (a)(2)(iv)(| A) | 50.73(a)(2)(x) 7 3 | | | 73.12 | 200(d) | |
| 20.2203 | 3(a)(2)(i) | 10 CF | R Part 21 | 50 | 50.46(a)(3)(ii) | | T | 50.73 | (a)(2)(v)(/ | A) 1 | 10 CFR Part 73 | | | 73.12 | 200(e) | |
| 20.2203 | 3(a)(2)(ii) | 21.2 | (c) | 50 | 50.69(g) | | | 50.73 | (a)(2)(v)(I | 3) | 73.77(a)(1) | | | 73.12 | 200(f) | |
| 20.2203 | 3(a)(2)(iii) | | | 50 | 50.73(a)(2)(i)(A) | | F | ✓ 50.73(a)(2)(v)(C) | | c) | 73.77(a)(2)(i) | | | 73.12 | 200(g) | |
| 20.2203 | 3(a)(2)(iv) | - | | ✓ 50 | 50.73(a)(2)(i)(B) | | T | 50.73 | 50.73(a)(2)(v)(D) | | 73.77(a)(| (a)(2)(ii) | | 73.1200(h) | | |
| 20.2203 | 3(a)(2)(v) | - | | 50 | 0.73(a)(2)(i)(C) | | | 50.73 | 50.73(a)(2)(vii) | | | K | | | | |
| | t (Specify he | ere, in abstrac | t, or NRC 366A | .). | | | <u> </u> | | | | | | | | | |
| | | | | 12 | 2. Licensee | Cont | act f | for this Ll | ER | | | | | | | |
| Licensee Conta | act | | | | | | | | | | 21 <u>2</u> | Phone Num | ber (In | clude a | rea code) | |
| Jimmv Coll | lins - Lice | nsina Man | ader | | | | | | | | | 97 | 2-45 | 3-234 | 2 | |
| | 1 | | 13. Complete | One Line | for each Co | ompo | nent | i Failure I | Described | d in this R | eport | r | -1 | | | |
| Cause | System | Compor | nent Manufact | urer Repo | ortable to IR | IS | | Cause | Syste | em C | omponent | Manufact | urer | Reporta | ble to IRIS | |
| X | BD | | / E09: | 5 | Y | | T | | - | - | | | | | | |
| 14. Supplemental Report Expected | | | | | | _ | 15. E | 15. Expected Submission Date | | | | | Year | | | |
| V No Yes (If yes, complete 15. Expected Submission Date) | | | | | | | | | | | | | | | | |
| At 10:11 EST on 02/11/2024 while Unit 1 was at 0% power in Mode 5, planned local leak rate testing (LLRT) of feedwater check valves were being performed. The test resulted in determining the primary containment leakage rate exceeded the allowable limit, La, defined in 10 CFR 50, Appendix J, "Primary Reactor Containment Leakage Testing for Water-Cooled Power Reactors" and specified in Technical Specifications 5.5.12. Two primary containment feedwater isolation check valves in a single performed. | | | | | | | | | | | | | | | | |

Following the completion of valve maintenance, which included machining of the in-body seats, disc, and adjustment or replacement of the hinge pins (as needed), a successful as-left LLRT was performed on each feedwater check valve and primary containment was restored to operable status.

| NRC FORM 366A U.S. NUCLEAR REGULATORY COMMISSIO | N APPROVED BY OMB: NO. | 3150-0104 | EXPIRES | 5: 04/30 |)/2024 | | | |
|--|--|---|---|--|-------------------------------------|--|--|--|
| (04-01-2024) LICENSEE EVENT REPORT (LER) CONTINUATION SHEET (See NUREG-1022, R.3 for instruction and guidance for completing this form the lower projection of the completing the form | Estimated burden per response to comply with this mandatory collection request: 80 hours. Reporter lessons learned are incorporated into the licensing process and fed back to industry. Send comment 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 Regulator Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NV Washington, DC 20503. The NRC may not conduct or sponsor, and a person is not required the respond to, a collection of information unless the document requesting or requiring the collectic. | | | | | | | |
| http://www.nrc.gov/reading-mi/doc-collections/huregs/staff/sr1022/r3/) | displays a currently valid OMB control n | umber. | | | | | | |
| 1. FACILITY NAME | 2. DOCKET NUMBER | | 3. LER NUMBER | | | | | |
| Edwin I. Hatch Nuclear Plant Unit 1 | 00321 | YEAR | SEQUENTIAL NUMBER | | REV NO. | | | |
| 052 | | 2024 - | 001 | (| 00 | | | |
| NARRATIVE | | | | | | | | |
| EVENT DESCRIPTION On 02/11/2024, while Unit 1 was at 0% power in Mode 5, plane valves were being performed. At 10:11 EST, it was determined allowable limit, La, defined in 10 CFR 50, Appendix J, "Primary Power Reactors" and specified in Technical Specifications 5.5. isolation check valves (EIIS Code: ISV) in a single penetration containment integrity. | ned local leak rate testing (I that the primary containm Reactor Containment Lea 12. Two primary containm failed LLRT which represe | (LLRT) of lient leakag akage Tes ent feedw ents a failu | the feedwater ge rate exceed ting for Water- ater (EIIS Cod ire to maintain | check led the Coolec e: SJ) primar | , d γ | | | |
| FAILED COMPONENTS INFORMATION Master Parts List Number: 1B21F010A, 1B21F032A Manufacturer: Edward Valves Model Number: Vendor P/N 415595 Type: Isolation Valves | | | | | | | | |
| EVENT CAUSE ANALYSIS Causal analysis was performed to determine the reasons the for that the valve disc was mis-aligned to its in-body seats which r limits. | eedwater check valves lea esulted in leakage through | ked exces the valve | ssively. It was o s exceeding al | determi Ilowabl | ined le | | | |
| SAFETY ASSESSMENT There were no actual safety consequences as a result of this e postulated to remain filled with water post-LOCA. With the leak potential pathway failure via this line. The leakage through this was determined to exceed La under postulated accident condt below the level required to significantly impact the Core Damag of low safety consequence. Additionally, the event was within t | event. The feedwater line of age rate higher than allow s primary containment pen ions. However, the primar ge Frequency and Large E he analysis of the UFSAR | containing vable throu etration fo y containr arly Relea Chapter 1 | these check v ugh this line, th or the as-found ment leakage r ase Frequency 15. | alves is ere is a conditi ate wa and w | is a ion is <i>i</i> as | | | |
| This event is reportable per 10 CFR 50.73 (a)(2)(ii)(A) because seriously degraded. This event is also reportable per 10 CFR 5 Technical Specifications because primary containment was inc Operation (LCO) timeframe. Additionally, this event is reportab could have prevented fulfillment of a safety function that is nee | e it resulted in one of the p 50.73 (a)(2)(i)(B) because to operable in excess of the a le per 10 CFR 50.73 (a)(2) ded to control the release | lant's prine this is a co llotted Lim)(v)(C) bec of radioac | cipal safety bar ondition prohibi nited Condition cause it is an e ctive material. | rriers b ited by of vent th | peing nat | | | |
| CORRECTIVE ACTIONS Maintenance was performed on the isolation valves which inclure replacement of the hinge pins (as needed). Following the comp performed on each feedwater check valve and primary contain | uded machining of the in-b pletion of valve maintenand ment was restored to oper | ody seats ce a succe able statu | , disc, and adju essful as-left Ll is. | ustmen LRT wa | າt or as | | | |
| PREVIOUS SIMILAR EVENTS None. | | | | | | | | |