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June 10, 2025 GO2-25-085

10 CFR 50.73

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

Subject: COLUMBIA GENERATING STATION, DOCKET NO. 50-397 LICENSEE EVENT REPORT NO. 2025-001-00

Dear Sir or Madam:

Transmitted herewith is Licensee Event Report number 2025-001-00 for Columbia Generating Station. This report is submitted pursuant to 10 CFR 50.73(a)(2)(i)(A), 10 CFR 50.73(a)(2)(ii)(A), and 10 CFR 50.73(a)(2)(i)(B).

There are no commitments being made to the Nuclear Regulatory Commission by this letter. If you have any questions or require additional information, please contact Mr. Z. K. Dunham, Regulatory Affairs Manager, at (509) 377-4735.

Executed on this <u>10th</u> day of <u>June</u>, 2025.

Respectfully,

DocuSigned by: David P. Brown D199DB13836043F... David P. Brown Site Vice President

Attachment: Licensee Event Report 2025-001-00

cc: NRC Region IV Regional Admin NRC Region IV Project Manager NRC Senior Resident Inspector/988C C.D. Sonoda – BPA

Docusign Env	velope II	D: 62DBC	;963-2911-	-4500-9551-1C5	5DCC16F7	789												
NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION							APPROVED BY OMB: NO. 3150-0104 EXPIRES: 04/30/2027											
(04-02-2024) 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), Attri: 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 Na	ame								050 2. Docket Number 3. Page									
Columbia	Columbia Generating Station								052		397		1	OF	3			
4. Title Pressure Condition	Bound Prohit	lary Lea bited by	kage Re Technic	sulting in a al Specificat	Technica ions	al Specifi	ication	ו Re	quired	Plant Sl	hutdo	wn, Degrac	led Cond	ition,	and			
5. Event Date 6. LER Number 7. Report Date						8. Other Facilities Involved												
Month	Day	Year Year Sequential Revision Month No.		Day		Year	Facility Name			050 Docket			t Number					
04	12	2025	2025	- 001 -	00	06	10		2025	.025 Facility Name				052	Docket	t Number		
9. Operating	Job Coperating Mode 10. Power Level Mode 3 0 percent																	
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							\checkmark	50.73	(a)(2)(ii)(/	A) [50.73(a)	(2)(viii)(A)		73.1	200(a)			
20.22	01(b)	Γ	20.22	203(a)(3)(i)	50	.36(c)(1)(i)	(A)		50.73	(a)(2)(ii)(E	в) [50.73(a)	(2)(viii)(B)		73.1	200(b)		
20.2201(d) 20.2203(a)(3)(ii)				50.36(c)(1)(ii)(A)			50.73	50.73(a)(2)(iii) 50.73(a)((2)(ix)(A) 73.1200(c)						
20.2203(a)(1) 20.2203(a)(4)				50	0.36(c)(2) 50.73(a)(2)(iv)(A) 50.73(a)(2)(x)						73.1	73.1200(d)						
20.22	03(a)(2)	(i)	10 CFF	R Part 21	50	.46(a)(3)(ii)		50.73	(a)(2)(v)(/	A)	10 CFR	Part 73		73.1	200(e)		
20.22	03(a)(2)	(ii)	21.2(0	c)	50	.69(g)			50.73	(a)(2)(v)(E	B) [73.77(a)	(1)		73.1	200(f)		
20.2203(a)(2)(iii) [✓ 50.73(a)(2)(i)(A)			50.73	50.73(a)(2)(v)(C) 73.77(a)((2)(i) 73.1200(g)					
20.2203(a)(2)(iv)					✓ 50.73(a)(2)(i)(B)				50.73	50.73(a)(2)(v)(D) 73.77(a))(2)(ii)				
20.22	03(a)(2)	(v)			50	.73(a)(2)(i)	(C)		50.73	(a)(2)(vii)								
	ER (Spec	cify here,	in abstract	, or NRC 366A)).													
					12	. Licensee	e Conta	ict fo	r this L	ER								
Licensee Cor Valerie La	Licensee Contact Phone Number (Include area code) Valerie Lagen (509) 372-5507																	
			,	13. Complete (One Line f	for each C	ompon	ient l	Failure Described in this Report									
Cause	S	System Component Manufactu		urer Repo	urer Reportable to IRIS		С	ause	System		Component	Manufact	urer	Report	able to IRIS			
														<u> </u>				
14. Supplemental Report Expected						15. Expected Submission Date Month Day Yea						Year						
V No	No Yes (If yes, complete 15. Expected Submission Date)																	
16. Abstract At 02:23 c line elbow area was	Abstract (Limit to 1326 spaces, i.e., approximately 13 single-spaced typewritten lines) At 02:23 on April 12, with the unit in Mode 3 at 0 percent power, pressure boundary leakage was identified on the bonnet vent line elbow connection of the Reactor Recirculation (RRC) Pump 1B discharge isolation valve, RRC-V-67B. Leakage from the area was initially identified during a drywell entry at 15 percent reactor power and later confirmed as pressure boundary leakage																	
during a s	ubseq	uent en	try in Mc	ode 3.														

This event is being reported pursuant to 10 CFR 50.73(a)(2)(i)(A) as a Plant Shutdown Required by Technical Specifications, 10 CFR 50.73(a)(2)(ii)(A) as a Degraded or Unanalyzed Condition that Resulted in the condition of the nuclear power plant, including its principal safety barriers being seriously degraded, and 10 CFR 50.73(a)(2)(i)(B) as an Operation or Condition Prohibited by Technical Specifications.

There were no structures, systems, or components that were inoperable at the beginning of the event that contributed to the event.

NRC FORM 366A (04-02-2024) U.S. NUCLEAR REGULATOR U.S. NUCLEAR REGULATOR (See NUREG-1022, R.3 for instruction and guidance for com http://www.nrc.gov/reading-rm/doc-collections/nuregs/staf	APPROVED BY OMB: NO. 3150-0104 EXPIRES: 04/30/20 Estimated burden per response to comply with this mandatory collection request: 80 hours. Rep lessons learned are incorporated into the licensing process and fed back to industry. Send comm regarding burden estimate to the FOIA, Library, and Information Collections Branch (T-6 A10M), Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email Infocollects.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regu Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Streef Washington, DC 20503. The NRC may not conduct or sponsor, and a person is not required to res to, a collection of information unless the document requesting or requiring the collection displ currently valid OMB control number.							
1. FACILITY NAME	1	050	2. DOCKET NUMBER	1 YEAR	Γ	3. LER NUMBER SEQUENTIAL	2	REV
Columbia Generating Station		052	397	2025	-	NUMBER	 _ [<u>NO.</u>
NARRATIVE								
At 02:23 on April 12, 2025, in Mode 3, a leak in or (RRC) pump 1B discharge isolation valve, RRC-V from the area was initially identified during drywel confirmed as pressure boundary leakage during a Condition of Operation 3.4.5.a requires no pressu Actions 3.4.5 C.1 and C.2 require the unit to be in 3 at the time of the event. Mode 4 was entered at Plant Conditions:	on the bo V-67B [A II entry a a subsec ure bour n Mode 3 t 09:32 o	onnet ve AD-ISV] at 15 pe quent e ndary le 3 within on April	ent line elbow connectio was identified as press rcent reactor power on ntry in Mode 3. Technic akage in Modes 1, 2, o 12 hours and Mode 4 i 12, 2025.	n of the F ure boun April 11, al Specif r 3. Tech n 36 hou	Rea Idar 202 icat nica rs.	actor Recircula ry leakage. Le 25, and later tion (TS) Limi al Specificatio The unit was	atior eaka ting on in M	ו ge lode
At the time of the event, the plant was in Mode 3	at 0 per	cent po	wer.					
Energy Industry Identification System (EIIS) codes	s are ide	ntified a	s [XX].					
Background: On 7/1/2023 (approximately 2 weeks after startup Reactor Coolant System (RCS) [AB] leak existed MTR] were reading higher than normal and tracki leakage and Floor Drain Radioactive (FDR) [WK] steady and did not indicate a leak. Chemistry per atmosphere which did not indicate leakage. In Ju trends indicating potential leaks in containment. In created to establish RCS leakage monitoring crite constant throughout the operating cycle and did r unidentified leakage, or an increase of 2 gallons p	p from th I when b ing simil leakage formed Ily 2023, In Augus eria and not chall per minu	ne previ ooth Cor arly. Du e, conta an isoto a Tech st 2023, identify enge th ute over	ous refueling outage) a ntainment Monitoring Sy iring this time Equipme inment temperature, ar opic analysis of a grab s inical Issues Resolution an Operational Decisio trigger points with action e TS RCS Operational 24 hours of unidentifie	n indicati /stem Ra nt Drain F id contair ample of Process n-Making ons. The limits of { id leakag	on Idia Rac Inme Ithe Is Val Is Is Is Is Is Is Is Is Is Is Is Is Is	was received tion Ratemete lioactive (EDF ent pressure ve containment as initiated to sue (ODMI) ve kage remaine allons per mir	that ers [R) [V were t anal vas ed nute	t a IK- VK] Jyze
Root Cause: Vent piping attached to the bonnet of RRC-V-67B fatigue of a weld on a 3/4-inch vent line from the with the original design's lack of dynamic analysis in support of Adjustable Speed Drive modification	3 was no RRC-V- s, or with s. Adju:	ot desig 67B so h the 19 stable s	ned to prevent high cyc cket welded connection 96 and 1997 GE analy peed drive controls the	le fatigue . This is a sis and te speed o	e. Tl a le estii of th	his resulted ir gacy issue as ng of small-bo le RRC [AD].	n cyo ssoc ore p	clic iateo pipino
Safety Significance: The Reactor Coolant System (RCS) [AB] leak wa While the leak remained below the TS RCS Oper positive identification, if the leak had increased ar have been initiated and the reactor would have be	as initiall rational l nd excee een plac	y estima limits fo eded TS ced in c	ated to be between 0.09 r unidentified leaks fron S unidentified leak rate old shutdown condition	5 and 0.1 n the time limits, an in accore	0 g e of orc dan	allons per min initial indicati derly shutdow ce with the TS	nute ion u n wo S.	until Juld
Immediate Corrective Actions: The RRC-V-67B weld leak was repaired.								

NRC FORM 366A U.S. NUCLEAR REGULATORY COMMISSION

(04-02-2024)

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/)

APPROVED	BY C	OMB:	NO.	3150-0104

EXPIRES: 04/30/2027

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	L									
1 FACILITY NAME			2 DOCKET NUMBER	3. LER NUMBER						
		050		YEAR	SEQUENTIAL NUMBER			REV NO.		
Columbia Generating Station		052	397	2025	-	001	- [00		

NARRATIVE

Planned Corrective Actions:

1. Perform verification that cracks have not been initiated at the surfaces and roots of welds identified as being subject to cyclic fatigue.

2. Ensure a drywell walkdown is performed to assess evidence of leakage from the welds identified as the suspect population.

3. Implement RCS Leakage ODMI for next cycle.

4. Redesign the RRC-V-67B vent line to sufficiently address the cyclic fatigue issue.

5. Implement the new design of RRC-V-67B vent line.

6. Perform extent of condition by use of non-destructive examinations on identified small-bore pipe welds on small bore pipe welds to find evidence of through wall leakage.

7. Perform pipe stress/vibrational analysis on lines identified as being susceptible to cyclic fatigue and perform an engineering change to remove susceptibility to cyclic fatigue.

Previous Similar Events:

No similar events identified in last 10 years.