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September 23, 2021 GO2-21-113

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. 2021-001-00

Dear Sir or Madam:

Transmitted herewith is Licensee Event Report No. 2021-001-00 for Columbia Generating Station. This report is submitted pursuant to 50.73(a)(2)(v)(C) and 50.73(a)(2)(v)(D).

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 Ms. D.M. Wolfgramm, Regulatory Affairs Manager, at (509) 377-4792.

Executed on this 23rd day of September , 2021.

Respectfully,

David P. Brown
David P. Brown
David P. Brown
Site Vice President

Attachment: Licensee Event Report 2021-001-00

cc: NRC Region IV Regional Admin NRC Region IV Project Manager NRC Senior Resident Inspector/988C C.D. Sonoda – BPA/1399

DocuSign Env	relope ID: 1CCB	OBCC-83FB-4/	\9F-992F-9	DAF82BA	AB15A C	OMMISS	ION	APP	ROVED BY OMB:	NO. 3150	-0104		EXPIR	ES: 08	/31/2023	
LICENSEE EVENT REPORT (LER) (See Page 3 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 e-mail to Infocollects.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk ail: oira_submission@omb.eop.gov . 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.								
Facility Name Columbia Generating Station								2. Docket Number					3. Page			
Columbia Generaling Station								050	000		1 OF 3					
4. Title Breach of	Secondary C	ontainment														
5. Event Date 6. LER Number 7. Report Date							ate	8. Other Facilities Involved								
Month	Month Day Year		Year Sequential Number		Month	Day	Year		Facility Name			Docket Number				
07	28 2021	2021 -	001 -	00	09	23	20)21	Facility Name				Docket Number			
Mode 1 10. Power Level 10. 100%																
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)					50.36(c)	· In			50.73(a)(2)(iv)(A)			50.73(a)(2)(x)	x)		
20.2201(b) 20.2203(a)(3)(i)			T	50.46(a)(3)(ii)				50.73(a)(2)(v)(A)			10 CFR Part 73					
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20.2203(a)(2)(i) 10 CFR Part 21				50.73(a)(2)(i)(B)			✓	50.73(a)(2)(v)(73.77(a)(1)(1)(i)						
20.2203(a)(2)(ii) 21.2(c)				50.73(a)(2)(i)(C)				50.73(a)(2)(vii	73.77(a)(2)(2)(i)						
20.2203(a)(2)(iii) 10 CFR Part 50				50.73(a)(2)(ii)(A)								(a)(2)(ii)				
20.2203(a)(2)(iv) 50.36(c)(1)(i)(A)			<u> </u>	50.73(a)(2)(ii)(B)				50.73(a)(2)(viii)(B)								
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OTHE	K (Specify field,	III abstract, or	INIC 300A)		2 Licensee	Contact	for th	nis I I	FR							
Licensee Contact for this LER Licensee Contact Valerie Lagen, Principal Licensing Engineer 12. Licensee Contact for this LER Phone Number (Include area code) (509) 372-5507																
		13.	Complete (One Line	for each C	omponer	nt Fai	lure l	Described in thi	s Report						
Cause	System	Component	Manufact	urer Rep	ortable to IR	IS	Caus	se	System	Compo	nent	Manufactu	rer Re	portab	able to IRIS	
	14.	Supplemental	Report Expe	ected			Π					Month	Day		Year	
✓ No Yes (If yes, complete 15. Expected Submission Date						n Date)		15. E	Expected Submiss	ion Date						
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Work instructions contained insufficient detail to ensure applicable TS impacts were identified leading to Energy Northwest staff operating in knowledge space.

NRC FORM 366A (08-2020)

U.S. NUCLEAR REGULATORY COMMISSION

3-2020)

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 OMB: NO. 3150-0104 EXPIRES: 08/31/2023

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 e-mail 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; e-mail: oira_submission@omb.eop.gov. 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		2. DOCK	T NUMBER		3. LER NUMBER						
	05000-		-	$\ \cdot\ $	YEAR		SEQUENTIAL NUMBER		REV NO.		
Columbia Generating Station			397		2021	-	001	- [00		

NARRATIVE

Plant Conditions

At the time of the event, the plant was operating in Mode 1 at 100% power. There were no structures, systems, or components that were inoperable at the start of the event that contributed to the event. Both Standby Gas Treatment (SGT) [BH] trains were operable.

Event Description

On July 28th, 2021 at 0922 PDT, the Secondary Containment [NG] hatch was opened to access the Reactor Building roof for maintenance activities. A second breach occurred when the maintenance personnel exited the roof. Each of the breach times were limited to 45 second intervals. Surveillance Requirement (SR) 3.6.4.1.2 is not met when any hatch in Secondary Containment is not closed and sealed and thus the Secondary Containment system became inoperable while the hatch was open. An alarm was received in the control room indicating a Secondary Containment vacuum of less than 0.25 inches of vacuum water gauge when the roof hatch was opened.

This event was reported as an event that could have prevented fulfillment of safety functions needed to control the release of radiation, and mitigate the consequences of an accident in accordance with 10 CFR 50.72(b)(3)(v)(C) and 10 CFR 50.72(b)(3)(v)(D) via Event Notification # 55385.

Immediate Corrective Actions

The Control Room received a Secondary Containment pressure alarm indicating a vacuum condition of less than 0.25 inches of vacuum water gauge while the roof hatch was open. Closing the hatch allowed the pressure to recover and the alarm cleared.

Assessment of Safety Consequences

The Secondary Containment low pressure alarm indicated a condition of less than 0.25 inches of vacuum water gauge. The maximum indicated pressure was 0.19 inches of vacuum water gauge. The purpose of maintaining a slight vacuum is to restrict the release of radioactive materials from the primary containment and to ensure the fission products entrapped within the Secondary Containment will be treated by the SGT system prior to discharge to the environment. There were no radiological releases, system actuations, or isolations associated with this event.

Surveillance Requirement 3.6.4.1.4 verifies that the SGT System will rapidly establish and maintain a pressure in the Secondary Containment that is less than ambient pressure. The design basis draw-down for Columbia is 20 minutes. An analysis was conducted to determine the impact of the breach on the specified safety system function for Secondary Containment at the beginning of a Design Basis Accident. The results showed that SGT would meet the credited design requirement to draw-down Secondary Containment to >/= 0.25 inches of vacuum water gauge in less than 20 minutes.

Secondary Containment was able to meet its required safety function to mitigate the consequence of a Design Basis Accident. There was no actual safety consequence associated with this event since there was no loss of safety function and no potential for radiological release.

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NRC FORM 366A (08-2020) U.S. NUCLEAR REGULATORY COMMISSION

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Columbia Generating Station	05000-		397		/EAR	SEQUENTIAL NUMBER		REV NO.	
Columbia Cenerating Station		391	$ ^2$	2021	- 001	-	00		

NARRATIVE

Cause of Event

Work instructions contained insufficient detail to ensure applicable TS impacts were identified leading to Energy Northwest staff operating in knowledge space.

Similar Events

There has been one similar event at Columbia in the last five years reported as LER 2017-005-00 where Secondary Containment was declared inoperable due to a non-permitted penetration seal breach. Energy Northwest has implemented corrective actions for this previous event.

Further Corrective Actions

Plant procedures and work instructions are being revised to ensure clarity for required actions when breaching Secondary Containment.

Energy Industry Identification System codes from IEEE Standards 805-1984 and 803-1983 are represented in brackets as [WW] throughout the body of the narrative.

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