

W. Grover Hettel Columbia Generating Station P.O. Box 968, PE23 Richland, WA 99352-0968 Ph. 509.377.8311 | F. 509.377.4150 wghettel@energy-northwest.com

August 1, 2013 GO2-13-109

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. 2013-003-00

Dear Sir or Madam:

Transmitted herewith is Licensee Event Report No. 2013-003-00 for Columbia Generating Station. This report is submitted pursuant to 10 CFR 50.73(a)(2)(i)(B).

There are no commitments being made to the NRC by this letter. If you have any questions or require additional information, please contact Mr. J. R. Trautvetter, Regulatory Compliance Supervisor, at (509) 377-4337.

Respectfully,

W. G. Hettel Vice President, Operations

Enclosure: Licensee Event Report 2013-003-00

cc: NRC Region IV Administrator NRC NRR Project Manager NRC Senior Resident Inspector/988C A. J. Rapacz – BPA/1399 W.A. Horin – Winston & Strawn

TEZO

NRC FORM (10-2010)	ICEN (Se di	U.S. I ISEE I e reven igits/cha	EVENT RE Se for require aracters for e	EPORT (LE ad number of each block)	ommiss (R)	ION	APPI Estim 80 ho fed ba Sectio 0001, Office Mana inform NRC inform	ROVEL nated burs. Re ack to a on (T-5 ; or by i e of info agemen nation of may no nation of	BY OMB N Inden per res aported lessoc ndustry. Sen F53), U.S. N Internet e-ma immation and t and Budget collection doe t conduct or collection.	IO. 3156 ponse to ons learn d comm luclear F li to <u>infor</u> Regulate , Washir is not dis sponsor	D-0104 b comply with ned are incor ents regardii tegulatory Cr Collects.reso ory Affairs, N ngton, DC 20 aplay a curre , and a perso	n this man porated in ng burden ommissio urce@nrc IEOB-102 5503. If a ntly valid on is not r	ndatory nto the n estima n, Was 202 (31) means OMB c required	EXPIRE collectio licensing the to the hington, nd to the 50-0104) used to ontrol nu d to resp	S 10/31/2013 n request: process and FOIA/Privacy DC 20555- Desk Officer, office of impose an imber, the ond to, the
1. FACILIT	Y NAM	E	0	Otobia-	4 4		2. DC	DCKET	NUMBER			3. PA	GE	1 05	
A 10051001 pt	Col	umbia	Generati	ng Station	ny na sina pala sa pina pana di sa pina di s			eren alla carded yea	00000	597		1	dugili Manadalari d	IOF	3
4. Ince Operatio	n Pro	hibited	t by Techr	nical Specifi	cations	s due	e to '	Valve	Leakag	е					
5. EVI	ENT DA	TE	6.	LER NUMBER	T	7	. REP	PORT	DATE		8. OTH	R FACI	ITTES	INVOL	VED
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MON	тн	DAY	YEAR	FACIL	ITY NAME			DOCH	(ET NUMBER)5000
06	03	2013	201	3 - 003 - 00	5	08		01	2013	FACIL	ITY NAME	<u>1</u>		DOCH	ET NUMBER
9. OPERA1 5 10. POWER 0	TING M	ODE	11. 11 20.22 2	IIS REPORT IS 201(b) 201(d) 203(a)(2)(i) 203(a)(2)(ii) 203(a)(2)(ii) 203(a)(2)(ii) 203(a)(2)(ii) 203(a)(2)(iv) 203(a)(2)(v) 203(a)(2)(v) 203(a)(2)(v)		20.2 20.2 20.2 50.3 50.3 50.4 50.7	PURS 2203(a 2203(a 36(c)(1 36(c)(2 36(c)(2 46(a)(2 73(a)(2 73(a)(2	iUANT a)(3)(i) a)(3)(ii) a)(4) 1)(i)(A) 1)(i)(A) 2) 3)(ii) 2)(i)(A) 2)(i)(B)		OUIRE 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73 50.73	MENTS OF (a)(2)(i)(C) (a)(2)(ii)(A) (a)(2)(ii)(B) (a)(2)(ii)(B) (a)(2)(iv)(A) (a)(2)(v)(A) (a)(2)(v)(A) (a)(2)(v)(C) (a)(2)(v)(C) (a)(2)(v)(D)	10 CFR	§: (C) 50 50 50 50 50 50 77 77 0 80	neck all i .73(a)(2 .73(a)(2 .73(a)(2 .73(a)(2 .73(a)(2 .73(a)(2 .73(a)(2 .73(a)(2 .71(a)(2 .71(a)(2 .71(a)(2 .71(a)(2 .71(a)(2 .71(a)(2 .71(a)(2 .71(a)(2 .71(a)(2 .71(a)(2 .71(a)(2 .73(that apply) 2)(vii) 2)(viii)(A) 2)(viii)(B) 2)(ix)(A) 2)(x) 4) 5) Abstract below Form 386A
				1/	LICEN	SEE C	ONT/	ACT FO	OR THIS LE	R	an an tha		0,	In terio	UNIT SOUR
FACILITY N Lisa Willia	iamé ams, L	icensi	ng Supervis	sor	19- 198						TELEPHO (509) 37	ONE NUM	ABER 3	(Include	Area Code)
	1		3. COMPLET	E ONE LINE F	OR EAC	H COI	MPON	IENT P	AILURE DE	SCRIB	ED IN THIS	REPOR	T	NO 1	DEDODTADI E
CAUSE	SYS	TEM	COMPONENT	FACTURER	T	O EPIX			CAUSE	SYSTE	M COM	PONENT	FACT	URER	TO EPIX
				C.											
	alexis rise and the	14,	SUPPLEMEN	TAL REPORT	EXPECT	ED	nga nanandan	ang and produce of		15. EX	PECTED	MONT	าห	DAY	YEAR
YES (If	yes, co	omplete	15. EXPECTE	D SUBMISSIO	N DATE)		0			D/	TE	10		16	2013
ABSTRA On June cavity flo unit on the the react When the estimate maintena inoperab OPDRV requirem TS. The OPDRV expectat	ACT (I 3, 20 oded ne con or ve e leal d to b ance a le. T activit nent, a caus condi ions r	Limit to 013, wi up (N ntrol ro ssel a cage v be less activiti echnic ties, a action te of th itions a regard	1400 spaces th Columb lode 5), lead od drive sy nd constitu- vas initially than 10 g es were co cal Specifie ction must was not tan is event was are encourt	s, i.e., approxi- pia Generati akage past ystem was o uted an ope y identified, allons per h ompleted. I cations (TS) t be initiated ken to susp yas inadequi ntered. Imm propriate ac	mately f ing Sta a close observe ration it was i nour. T During) requil d imme pend the late pro- mediate ctions t	15 sin ed is ed th with not r This I this re this re this diate oced e cor	gle-sj in a olati roug the ecog leak time at w ely to PDR ure recti ke fo	pland pland on var poter gnize age p perio ith se o sus V. T guida ive ac	typewritten ned refue live asso train line dial to dra dias an (bersisted bod, the se condary pend OP this repre- ance for a ctions we covered to	n lines) oriated ciated . This ain th OPDR for 16 econd conta DRVs esents action ore tak	butage ai d with on s leakage e reactor IV. The b hours u lary cont inment i s. Contra s a condit s to take ken to es nned OP	nd the e hydre origin r vesse leakag intil the ainmen nopera ary to t tion pro when tablish	react aulic ated ated (Of e rat able c his ohibit unex	or contro from PDRV e was is turing ted by pecte	ol).

This event is not safety significant since the leakage rate was so small that there was no measurable loss of level in the reactor cavity.

1

NRC FORM 366A	U.S. NUCLEAR REGULATORY COMMISSION
(10-2010)	LICENSEE EVENT REPORT (LER)
	CONTINUATION SHEET

1. FACILITY NAME	2. DOCKET	6. LI	R NUMBER		3. PAGE
Columbia Generating Station	05000397	YEAR	EQUENTIAL NUMBER	REV NO.	2 OF 3
Columbia Generating Station	03000337	2013	- 003 - 00		2010

NARRATIVE

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].

Introduction

Initial Conditions

At the time of the event, Columbia Generating Station (Columbia) was in Mode 5, at 0 percent of rated thermal power. The preferred source of offsite power from the 230 kV source through the startup transformer [XMFR] was inoperable. The Division 2 emergency diesel generator system [EK] was inoperable. The Division 2 emergency core cooling systems (ECCS) consisting of two trains of low pressure coolant injection (LPCI) [BO] were inoperable. The Division 1 emergency diesel generator and ECCS, consisting of one LPCI train and the low pressure core spray system [BM], were operable and protected.

Reportability Criteria

Secondary containment [NG] operability was not maintained during an operation with a potential to drain the reactor vessel (OPDRV) activity and Required Action C.1 of Technical Specification (TS) 3.6.4.1 to immediately initiate actions to suspend OPDRV activities was not completed. This condition is being reported in accordance with 10 CFR 50.73(a)(2)(i)(B) as an operation prohibited by the plant's TS.

Event Description

On June 3, 2013, with Columbia in a planned refueling outage and the reactor cavity flooded up (Mode 5), leakage past a closed isolation valve associated with one hydraulic control unit [HCU] on the control rod drive system [AA] was observed through a drain line. This leakage originated from the reactor vessel and constituted an operation with the potential to drain the reactor vessel (OPDRV). When the leakage was initially identified, it was not recognized as an OPDRV. The leakage rate was estimated to be less than 10 gallons per hour. This leakage persisted for 16 hours on June 3, 2013, from 0405 hours to 1955 hours until the maintenance activities were completed and the drain line was isolated. The leakage was observed by Engineering personnel conducting a field walk down of the control rod drive system. A subsequent review of the issue by Licensing personnel determined that, although the leakage was minimal, it constituted an OPDRV under the plain language definition provided by Enforcement Guidance Memorandum (EGM) 11-003, "Enforcement Guidance Memorandum on Dispositioning Boiling Water Reactor Licensee Noncompliance with Technical Specification Requirements during Operations with a Potential for Draining the Reactor Vessel," dated October 4, 2011.

Event Cause

The cause determination is still in progress. The preliminary cause of this event is attributed to inadequate procedure guidance for actions to take when unexpected OPDRV conditions are encountered. The TS require that actions be initiated immediately to suspend the OPDRV activity. In this case, upon discovery of the leakage, the maintenance activity should have been stopped and a determination undertaken to identify the necessary actions to isolate the leakage while still preserving equipment and personnel safety. A supplement to this licensee event report will be submitted if the final cause determination is substantively different from the initial cause determination.

(10-2010)	U.S. NUCLEAR REGULATORY COMMISSION							
	CONTINU/	TION SHE	ET		A DACE			
I. PACLET TRAME	05000397	YEAR SEQUENTIAL REV			3 OF 3			
Columbia Generating Station		2						
The safety significance of this event i Vode 5 with the reactor cavity floode Approximately 500,000 gallons of wa would be available to drain prior to re ECCS far exceeded the observed lea	s considered to b d up. The leakag ter are added to f aching the top of ikage rate.	e negligible je rate was flood up the active fuel.	e. At the time of small, on the of reactor cavity; Additionally, th	f the event, rder of 10 ga thus, this ar he makeup o	Columbia was in allons per hour. mount of water capability of the			
Corrective Actions								
Corrective Actions								
The following corrective actions were 126/2635 [V] is open, the known leak OPDRV. Additionally, the Night Orde discovered that may constitute an OF drain path in order to satisfy the TS me ansure industrial, radiological, and mu	completed: A N age past CRD-V- er reinforced the e PDRV, action must equirements. The uclear safety is no	ight Order v 101/2635 r expectation at be comm ese actions of jeopardiz	was issued to id equires this cor that upon notifi enced immedia must be done i ed.	lentify that w nfiguration b cation that l tely to allow in a controlle	when CRD-V- e considered a eakage has be isolation of the ed manner to			

The corrective action plan is still being developed. The preliminary plan will revise procedure PPM 3.4.1 to incorporate the expectations from the Night Order. A supplement to this licensee event report will be submitted if the final corrective action plan is substantively different than that included here.

Previous Similar Events

During the refueling outage that was in progress during this event, a number of evolutions were properly classified as OPDRVs using the guidance in EGM 11-003. For these planned evolutions, the TS requirements were met. There are no previous similar events involving unplanned OPDRV activities.