



Scott A. Vance  
Vice President, Corporate Governance and General Counsel  
P.O. Box 968, MD PE13  
Richland, WA 99352-0968  
Ph. 509.377-4650 | F. 509.372.5330  
savance@energy-northwest.com

April 30, 2024  
GO2-24-050

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

**Subject: COLUMBIA GENERATING STATION, DOCKET NO. 50-397  
2023 ANNUAL ENVIRONMENTAL OPERATING REPORT**

Dear Sir or Madam:

This letter is submitted pursuant to Section 5.4.1 of the Columbia Generating Station (CGS) Environmental Protection Program (EPP), Appendix B to the Facility Operating License No. NPF-21, which requires Energy Northwest (EN) to submit an Annual Operating Report for the EPP to the Nuclear Regulatory Commission (NRC) for the prior calendar year.


There was no instance of EPP noncompliance and no change in station design or operation, tests, or experiments that involved an unreviewed environmental question.

On June 13, 2023, during Refueling and Maintenance Outage 26 (R26), maintenance activities on the Reactor Feedwater (RFW) Drive Turbine (DT) system resulted in the loss of Mobil DTE 732 turbine lubricating oil to the plant service water system (TSW). This event resulted in a nonroutine report pursuant to 10 CFR § 50.72(b)(2)(xi), which was completed on June 13, 2023: NRC Notification Event Number 56572.

A summary of the effluent data reported on the discharge monitoring reports to the Energy Facility Site Evaluation Council (EFSEC) is provided in the Attachment.

There are no commitments being made to the NRC by this letter. If you have any questions or require additional information, please contact Ms. P. Sample at (509) 377-2469.

Respectfully,

DocuSigned by:  
  
D58EB9055F2F498...

Scott A. Vance  
Vice President, Corporate Governance and General Counsel

Attachment: Summary of Discharge Monitoring Reports

cc: NRC Region IV Administrator      NRC NRR Project Manager  
NRC Sr. Resident Inspector

**ATTACHMENT**

**Summary of Discharge Monitoring Report**

**2023 ANNUAL ENVIRONMENTAL OPERATING REPORT**

Page 1 of 1

**COLUMBIA GENERATING STATION  
2023 COOLING WATER BLOWDOWN DISCHARGES**

<u>Month</u>	<u>Days of Discharge</u>	<u>pH</u>		<u>Total Residual Halogen (mg/L)</u>	<u>Maximum Total (ug/L)</u>			<u>Discharge Volume (Millions of gallons/day)</u>		<u>Heat Load (kcal/day) Monthly Average<sup>(f)</sup></u>
		Low	High		Copper <sup>(c)</sup>	Chromium <sup>(d)</sup>	Zinc <sup>(e)</sup>	Average <sup>(a)</sup>	Maximum <sup>(b)</sup>	
Jan	31	7.5	8.1	<0.1	19.9	2.3	16.9	2.7	2.7	-
Feb	28	7.6	8.3	<0.1	10.5	<1.0	12.0	2.7	2.7	-
Mar	31	7.6	8.2	<0.1	12.0	1.22	14.4	2.6	2.8	-
Apr	30	7.5	8.5	<0.1	13.5	1.6	18.4	2.8	3.1	-
May	31	7.3	8.4	<0.1	11.3	1.36	12.1	2.5	4.2	-
Jun	30	7.2	8.4	<0.1	14.3	0.84	35.0	1.8	5.0	-
July	31	7.3	8.3	<0.1	-	<1.0	12.1	5.1	5.2	5.87e+008
Aug	31	7.6	8.5	<0.1	-	1.3	17.7	5.1	5.2	5.71e+008
Sep	30	7.4	8.6	<0.1	-	1.9	22.5	2.9	5.2	2.9e+008
Oct	31	7.4	8.5	<0.1	-	1.3	14.2	2.6	2.9	2.39e+008
Nov	30	7.6	8.2	<0.1	-	1.41	10.4	2.7	3.0	-
Dec	31	7.5	8.3	<0.1	-	3.8	23.8	2.7	3.1	-
<b>Permit Limit</b>		6.5	9.0	0.1	(c)	(d)	(e)	5.6	9.4	1.27e+009

**Under the new NPDES permit effective July 1, 2023**, quarterly whole effluent toxicity testing is not required and was not performed in the third and fourth quarters of 2023. The bioassay results for quarter 1 and 2 of 2023 were favorable with no acute toxicity detected in the test concentration representing the acute critical effluent concentration (ACEC). The ACEC equals 11% effluent.

(a) Average daily discharge for the month.

(b) Maximum daily discharge for the month.

(c) No permit limit for copper.

(d) Chromium limits are: 8.2 ug/L monthly average, 16.4 ug/L daily maximum.

(e) Zinc limits are: 53 ug/L monthly average, 107 ug/L daily maximum.

(f) Heat Load (June through October only) limit: 1.27e+009 kilocalories per day (kcal/day) monthly average. (Renewed NPDES Permit effective July 1, 2023, marking the start of heat load reporting.)