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

Subject: **COLUMBIA GENERATING STATION, DOCKET NO. 50-397  
2021 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 Plan (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 were no EPP noncompliances in 2021 and there were no changes in station design or operation, tests, and experiments that involved an unreviewed environmental question.

On September 14, 2021 Energy Northwest sent a National Pollutant Discharge Elimination System (NPDES) 5-day noncompliance report to the Energy Facility Site Evaluation Council (EFSEC) for the potential discharge of no more than eight gallons of silicone-based lubricating fluid into Plant Service Water and subsequently the Circulating Water Basin and Columbia River via Columbia Generating Station Outfall 001. NRC notification EN# 55425 pursuant to 10 CFR 50.72(b)(2)(xi) was completed on August 23, 2021.

A summary of the effluent data reported on the discharge monitoring reports to EFSEC are 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 Mr. D. Mehinagic at (509) 372-5768.

Executed on the 20th day of April, 2022.

Respectfully,



Recoverable Signature

X

Vance, Scott A.

Final Approver

Signed by: Vance, Scott A.

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  
CD Sonada – BPA/1399

SAV/lw

## **ATTACHMENT**

### **Summary of Discharge Monitoring Report**

## 2021 ANNUAL ENVIRONMENTAL OPERATING REPORT

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### COLUMBIA GENERATING STATION 2021 COOLING WATER BLOWDOWN DISCHARGES

Month	Days of Discharge	pH		Total Residual Halogen (mg/L)	Maximum Total (ug/L)			Discharge Volume (millions of gallons/day)	
		Low	High		Copper <sup>(c)</sup>	Chromium <sup>(d)</sup>	Zinc <sup>(e)</sup>	Average <sup>(a)</sup>	Maximum <sup>(b)</sup>
Jan	31	8.0	8.6	<0.1	10.8	3.0	15.4	2.3	2.4
Feb	28	8.1	8.6	<0.1	12	1.1	15.9	2.0	2.4
Mar	31	8.2	8.6	<0.1	9	1	21.3	2.1	2.8
Apr	30	8.1	8.6	<0.1	7.6	1	14	2.5	2.6
May	31	7.0	8.4	<0.1	9.3	1.6	15.7	1.4	5.0
Jun	30	7.2	8.8	<0.1	22.3	<1	38.2	2.1	4.9
Jul	31	6.8	8.3	<0.1	15.7	1.1	22.4	3.6	5.3
Aug	31	7.2	8.7	<0.1	15	2.2	13.3	3.7	5.3
Sep	30	8.1	8.7	<0.1	14.5	2.8	21.2	2.5	2.5
Oct	31	7.9	8.7	<0.1	14.2	1.3	15.2	2.3	2.7
Nov	30	7.9	8.6	<0.1	19	1.8	36.9	2.3	2.8
Dec	31	7.7	8.7	<0.1	31	10.0*	47	2.0	2.7
Permit Limit				0.1	(c)	(d)	(e)	5.6	9.4

Acute toxicity testing of circulating water blowdown was completed quarterly during 2021.

The bioassay results were favorable with no acute toxicity detected in the test concentration representing the acute critical effluent concentration (ACEC). The ACEC equals 11% effluent.

\*During the month of December, two samples for chromium were taken for an average concentration of 6.2 ug/L.

- (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