



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

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

**Subject: COLUMBIA GENERATING STATION, DOCKET NO. 50-397  
2020 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 2020 and there were no changes in station design or operation, tests, and experiments that involved an unreviewed environmental question. No non-routine, non-radiological reports (per EPP Section 5.4.2) were required for 2020.

On March 10, 2017, the National Marine Fisheries Service (NMFS) issued an Endangered Species Act Section 7(a)(2) Biological Opinion for CGS requiring the submission of a fish entrainment characterization study to the NRC and the NMFS. EN provided the fish entrainment characterization final report to the State of Washington Energy Facility Site Evaluation Council (EFSEC), the NMFS, and the NRC on February 26, 2020.

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 Ms. F. Najera-Paxton at (509) 372-5660.

Executed on the 29th day of April, 2021.

Respectfully,

 Recoverable Signature

X Vance, Scott A.

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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

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**ATTACHMENT**

**Summary of Discharge Monitoring Reports**

**2020 ANNUAL ENVIRONMENTAL OPERATING REPORT**

Attachment

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**COLUMBIA GENERATING STATION  
2020 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 (c)	Chromium(d)	Zinc (e)	Average (a)	Maximum (b)
Jan	31	7.2	8.3	<0.1	16	1.2	38	2.2	2.5
Feb	29	7.3	8.2	<0.1	12	<1	35	2.9	5.3
Mar	31	7.7	8.3	<0.1	12	<1	21	2.4	2.7
Apr	30	7.8	8.5	<0.1	16	1.1	38	2.3	2.4
May	31	7.9	8.6	<0.1	14	<1	29	2.4	2.6
Jun	30	7.6	8.6	<0.1	14	1.6	29	2.6	4.4
Jul	31	8.1	8.7	<0.1	9	<1	29	3.5	5.7
Aug	31	7.8	8.6	<0.1	7	<1	18	4.7	5.6
Sep	30	8.1	8.6	<0.1	8	1.2	13	3.1	5.2
Oct	31	7.8	8.5	<0.1	14	1.6	12	2.4	2.6
Nov	28	7.9	8.6	<0.1	11	2.6	12	2.3	4.3
Dec	31	8.3	8.7	<0.1	11	2.9	21	1.9	2.5
Permit Limit				0.1	(c)	(d)	(e)	5.6	9.4

Acute toxicity testing of circulating water blowdown was completed quarterly during 2020. 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.

- (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