

# Columbia Power Plant Emergency Power Generation



## Overview

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Benton County Emergency Management, in coordination with Franklin and Grant Counties, the State of Washington, and Energy Northwest, has developed plans to respond in the unlikely event of an accident at the Columbia Generating Station (CGS). Nuclear Regulatory Commission (NRC, the Commission) has issued the enclosed Amendment No. 276 to Renewed Facility Operating License No. CGS is the Northwest's only commercial nuclear power . Columbia Generating Station is a nuclear commercial energy facility located on the Hanford Site, 10 miles (16 km) north of Richland, Washington. Mission, Purpose, Scope.

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### FRANKLIN COUNTY COLUMBIA GENERATING STATION

Franklin County has communities within the 10-mile emergency planning zone (EPZ) of Energy Northwest's Columbia Generating Station. The Columbia Generating Station is a boiling-water

### [Alaska's big river never stops flowing . Geophysical Institute](#)

It's midsummer, a good time to slip a canoe onto the Yukon River. I start at the river town of Eagle, population 85, and will finish in Circle, population 104. Circle is about 170 twisting miles



### Columbia Generating Station

In 2013, the Columbia Generating Station set a record for electricity generation during a refueling outage year - 8.4 million megawatt hours of electricity sent to the regional power grid.

### Columbia Generating Station - Energy Northwest

Columbia Generating Station Location 76 North Power Plant Loop Richland, WA 99354



### Ranking Rivers , Geophysical Institute



## Columbia Generating Station , City of Richland WA, Emergency

CGS is the Northwest's only commercial nuclear power plant and is owned and operated by Energy Northwest. The plans are designed to help protect nearby residents, specifically those living within

For comparison, that's right ahead of the Columbia in area drained and right after it in discharge. (The Columbia River also needs Canada to gain its rank; its source is in British



## State of Oregon: Safety & Resilience

The Oregon Department of Energy is responsible for responding to potential emergencies at the Hanford Nuclear Site or the Columbia Generating Station nuclear power plant in Washington state.

### [Preparedness takes coordination. At a recent exercise near the Columbia](#)

Preparedness takes coordination. At a recent exercise near the Columbia Generating Station nuclear power plant, Washington's third-largest electricity generator, over 250 federal, state, local



### [Seismic record analysis can reveal a glacier's past , Geophysical](#)

The team analyzed 20 years of Columbia Glacier's seismic activity to learn what these signals can reveal about changes in the glacier and the conditions that drive them. The glacier has



## Alaska's Size in Perspective , Geophysical Institute

Alaska is more than twice the size of the largest of the lower 48 states, and the amount of Alaska underlain by permafrost is equal to the size of three Californias. Ten states are smaller than



## Columbia Generating Station

Overview Economics Design and function History Spent fuel Surrounding population Potential risks Notes

In late 2012, the Bonneville Power Administration and Energy Northwest came together to analyze the financial value of Columbia in light of low energy prices in the wholesale electricity market and historic low fuel costs for natural gas-fired power plants. The agencies studied three scenarios and concluded, in April 2013, that Columbia's continued operation was the most cost-effective option for consumers.



## Alaska Glaciers Show Dramatic Melting

Columbia Glacier in Prince William Sound and Bering Glacier in the St. Elias Mountains are two glaciers losing ice at an alarming rate: during the past decade, Columbia has shrunk by an



## [The majesty and mystery of Alaska yellow cedar , Geophysical Institute](#)

These trees, which can live longer than 1,000 years, grow on the rainy coast from the Oregon/California border through British Columbia and as far north as Prince William Sound. The

## Columbia Glacier Retreating , Geophysical Institute

Columbia Glacier, located about 40 kilometers (25 miles) west of Valdez near the epicenter of the great 1964 earthquake, is rapidly losing its battle for survival. It is the last of Alaska's



## Way back when, artist believed Alaska was a good deal , Geophysical

In his 20s, Whympers left what must have been a comfortable life in London to travel to British Columbia, where he gained the position of artist on the Vancouver Island Exploring

## The Alaska-Canada Boundary , Geophysical Institute

The Alaska-Canada boundary was originally established in February 1825 by Russia (then owner of Alaska) and Great Britain (then owner of Canada).



## Walla Walla County

For the purposes of radiological emergency preparedness planning at the Columbia Generating Station the area around the Station is divided into two emergency planning zones.

## Emergency

BPA markets wholesale electrical power from 31 federal hydroelectric projects in the Northwest, one nonfederal nuclear plant and several small nonfederal power plants.





## **The Columbia Glacier , Geophysical Institute**

The Columbia Glacier is one of Alaska's better known tidewater glaciers, both from the standpoint of tourist attraction and the model it provides for scientific investigation. In 1973 it became the object of

## **Columbia Generating Station**

A summary of emergency response measures for each emergency classification level is provided in section D, "Emergency Classification System," of the proposed Columbia Emergency Plan.



## **GRANT COUNTY COLUMBIA GENERATING STATION**

Use of this classification system as the basis for determining the level of local response to a Columbia Generating Station emergency and an annual review of the scheme assures the consistency of

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