



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

JUL 25 1980

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Docket No. 50-344

Mr. Charles Goodwin, Jr.
Assistant Vice President
Portland General Electric Company
121 SW Salmon Street
Portland, Oregon 97204

Dear Mr. Goodwin:

In conducting our review of the recent volcanic activity at Mount St. Helens and its relation to the Trojan Nuclear Plant, we have determined that we will need the additional information identified in the enclosure to continue our review.

In order for us to maintain our review schedule, your response is requested within 45 days of your receipt of this letter.

Please contact us if you have any questions concerning this request.

Sincerely,

A handwritten signature in cursive script, appearing to read "Tom Novak".

Thomas Novak, Assistant Director
for Operating Reactors
Division of Licensing

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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Mr. Charles Goodwin, Jr.
Portland General Electric Company

cc: Mr. J. W. Durham, Esquire
Vice President and Corporate Counsel
Portland General Electric Company
121 S.W. Salmon Street
Portland, Oregon 97204

Donald W. Godard, Supervisor
Siting and Regulation
Oregon Department of Energy
Labor and Industries Building
Room 111
Salem, Oregon 97310

Columbia County Courthouse
Law Library, Circuit Court Room
St. Helens, Oregon 97501

Michael Malmros, Resident Inspector
U. S. Nuclear Regulatory Commission
Trojan Nuclear Plant
P. O. Box 0
Rainier, Oregon 97048

Robert M. Hunt, Chairman
Board of County Commissioners
Columbia County
St. Helens, Oregon 97051

Director, Technical Assessment Division
Office of Radiation Programs (AW-459)
U. S. Environmental Protection Agency
Crystal Mall #2
Arlington, Virginia 20460

U. S. Environmental Protection Agency
Region X Office
ATTN: EIS COORDINATOR
1200 6th Avenue
Seattle, Washington 98101

GEOLOGICALS BRANCH
REQUESTS FOR ADDITIONAL INFORMATION
TROJAN NUCLEAR PLANT
PORTLAND GENERAL ELECTRIC CO.
DOCKET NO. 50-344

- 361.1 Since Mount St. Helens volcanism may continue for an indefinite time period describe, based upon the post-March 1980 volcanic activity, the volcano-related phenomena that have affected the Trojan Nuclear Plant. Describe and assess the effect of each of these phenomena on the Trojan Nuclear Plant. Address as a minimum in your response the following: (1) tephra thickness and accumulation rates, and (2) mudflows, pyroclastic flows, and debris flows and (3) lateral blast. With respect to (2) above provide volume estimates (mudflows and debris flows) based on recent events in the Toutle River and Swift Creek-Muddy River areas.
- 361.2 Discuss the potential for an eruption, similar to the May 18, 1980 event, occurring on the west-southwest flank of Mount St. Helens and directed toward the Trojan Nuclear Plant. If such an event were to occur how would it effect the plant? Include in your response as a minimum, the following phenomena: tephra, air blast, pyroclastic flows, mudflows, and debris flows.
- 361.3 Based upon information directly obtained by PGE or reported by others as a result of the current volcanic activity, provide a map showing the distribution and cumulative thickness of ashfall within a 40 mile radius of Mount St. Helens. Provide separate maps depicting the ash distribution and thickness of the ashfalls of the May 18, May 25 and June 12 events within the same radius. Describe the effect, including thickness and duration of fallout, of each of these ashfall events (or any intermediate events) at the Trojan Nuclear Plant.

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- 361.4 Historically, what is the largest magnitude earthquake, on a worldwide basis, attributed to a volcano and with similar characteristics to that of Mount St. Helens?
- 361.5 What is the maximum potential earthquake that may be generated from a volcano such as Mount St. Helens?
- 361.6 Given the two events described in questions 361.4 and 361.5 above and assuming they occur near Mount St. Helens (i.e. locate the earthquakes at their closest approach of the Mount St. Helens structure to the Trojan Nuclear Plant) compare the current Trojan Nuclear Plant peak acceleration and response spectra with those generated by the above events.