

71-9271

**Portland General
Electric**

Trojan Nuclear Plant
71760 Columbia River Hwy
Rainier OR 97048
(503) 556-3713

September 23, 1998

VPN-054-98

Trojan Nuclear Plant
Dockets 50-344, 71-9271
License NPF-1

Director
Office of Nuclear Materials Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Dear Sir:

Update to Trojan Nuclear Plant
Safety Analysis Report for Reactor Vessel Package (PGE-1076)

Application for approval of the one-time shipment of the Trojan Reactor Vessel Package to the US Ecology radioactive waste disposal facility near Richland, Washington, was made via letter (VPN-022-97) dated March 31, 1997, from Stephen M. Quennoz to the Director, Office of Nuclear Materials Safety and Safeguards. By letter dated July 9, 1998, from Susan F. Shankman to Stephen M. Quennoz, the Nuclear Regulatory Commission (NRC) transmitted to Portland General Electric Company (PGE), "Trojan Reactor Vessel Package Request for Additional Information." By letters (VPN-037-98 and VPN-040-98) dated August 8 and August 13, 1998, from Stephen M. Quennoz to the Director, Office of Nuclear Materials Safety and Safeguards, PGE responded to the NRC's Request for Additional Information and provided associated updates to PGE-1076. During the review of PGE's responses, the NRC Project Manager for the application, Mr. John Cook, identified to PGE in telephone conversations additional requests requiring updates to PGE-1076. The Attachment to this letter is a list of the updates (other than editorial), the reasons for them, and the affected sections of PGE-1076. The update to PGE-1076 is provided as the Enclosure to this letter.

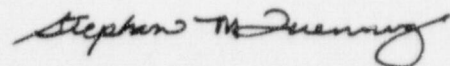
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Ltr. Encl.

A review of the material being submitted with this letter identified no proprietary information or copied works. PGE desires to expeditiously resolve any further questions or concerns you may have, so that our application can be approved in time to meet the planned shipping window in late July and August 1999. Please direct any questions regarding the information provided in this letter to Lanny Dusek at (503) 556-7469.

Sincerely,



Stephen M. Quennoz
Trojan Site Executive

Attachment
Enclosure

c: S. F. Shankman, NRC, NMSS, SFPO (w/o enclosure)
C. J. Haughney, NRC, NMSS, SFPO (w/o enclosure)
E. P. Easton, NRC, NMSS, SFPO (w/o enclosure)
G. Robertson, WDOH (w/o enclosure)
E. Fordham, WDOH (w/o enclosure)
B. Bede, US Ecology (w/o enclosure)

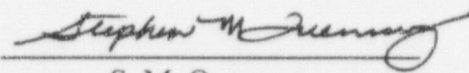
Summary of Updates to PGE-1076

UPDATE	REASON	AFFECTED SAR SECTIONS
Address the effects of internal pressure from gases produced by radiolysis.	Demonstrate that hydrogen and oxygen gases generated from radiolysis during the duration of transport do not create pressure conditions adverse to the design of the package.	2.6.1, 2.6.2, 2.6.3, 2.6.4, 3.4.4, 3.5.4, 4.2.3, 8.3, Appendix 4-1
Add notes to Figure 5-1, "Reactor Vessel Model," to show the assumptions used in modeling the core baffle and core former regions of the model for the shielding evaluation.	Provide information needed for independently validating results based on the model for the shielding evaluation.	Figure 5-1
Add inner and outer radii of core baffle to Figures 5-1 and 5-2, "Reactor Vessel Model Source Regions."	Provide information needed for independently validating results based on the model for the shielding evaluation.	Figures 5-1, 5-2
Add statement that the transporter-to-barge tiedown system is designed beyond the ANSI standard to include 1.6g transverse loading.	Ensure that the design requirement is explicit since the probabilistic safety study for river transport credits this more stringent design criterion.	7.1
Add statement that the shipment will be conducted in accordance with the Transportation Safety Plan (PGE-1077).	Directly tie conformance to the operational controls described in the Transportation Safety Plan into the SAR.	7.2
(PGE-identified) Delete the statement that indicates the determination to establish a safety zone will be made upon the completion of a waterway threat assessment by the United States Coast Guard (USCG).	Clarify that it is not necessary that the USCG first complete a waterway threat assessment to establish a safety zone. Achieve consistency with wording in Section 1.1.1.2.2.	7.4
(PGE-identified) Replace reference to a Certificate of Compliance from the NRC with reference to approval from the NRC.	Generalize the method of approval that may be utilized by the NRC.	8.4, 8.5.1

STATE OF OREGON,)
)
)
COUNTY OF COLUMBIA)

I, S. M. Quennoz, being duly sworn, subscribe to and say that I am the Trojan Site Executive, for Portland General Electric Company, the licensee herein; that I have full authority to execute this oath; that I have reviewed the foregoing; and that to the best of my knowledge, information, and belief the statements made in it are true.

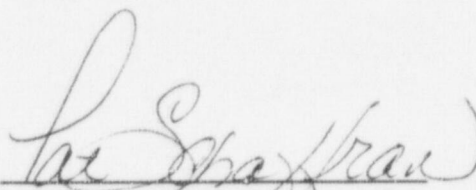
Date: September 23, 1998


S. M. Quennoz,
Trojan Site Executive
Portland General Electric Company

On this day personally appeared before me, S. M. Quennoz; to me known to be the individual who executed the foregoing instrument, and acknowledged that he signed the same as his free act.

GIVEN under my hand and seal this 23rd day of September 1998.




Notary Public in and for the
State of Oregon

Residing at Watskanis
My commission expires 7-27-99

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)

PORTLAND GENERAL ELECTRIC COMPANY)
THE CITY OF EUGENE, OREGON, AND)
PACIFIC POWER & LIGHT COMPANY)
(TROJAN NUCLEAR PLANT))

Dockets 50-344, 71-9271
License NPF-1

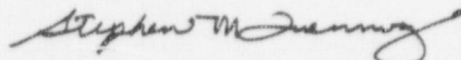
CERTIFICATE OF SERVICE

I hereby certify that copies of Update to Trojan Nuclear Plant Safety Analysis Report for Reactor Vessel Package (PGE-1076), dated September 23, 1998, supporting PGE's March 31, 1997, application for approval of a one-time shipment of the Trojan reactor pressure vessel for disposal, have been served on the following by hand delivery or by deposit in the United States Mail, first class, this 23rd day of September 1998:

State of Oregon
Attn: David Stewart-Smith
Oregon Office of Energy
625 Marion Street NE
Salem, OR 97310

State of Washington
Attn: Mikel J. Elsen
Washington Department of Health
P.O. Box 47827
Olympia, WA 98504

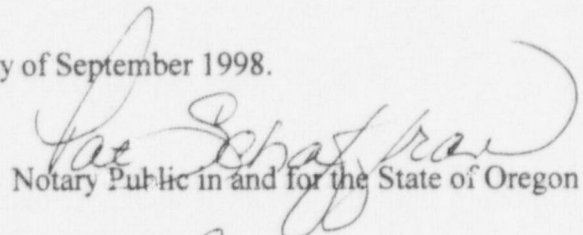
Chairman of County Commissioners
Columbia County Courthouse
St. Helens, Oregon 97051

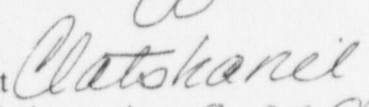

Stephen M. Quennoz
Trojan Site Executive

On this day personally appeared before me Stephen M. Quennoz; to me known to be the individual who executed the foregoing instrument, and acknowledged that he signed the same as his free act.

GIVEN under my hand and seal this 23rd day of September 1998.




Notary Public in and for the State of Oregon

Residing at 
My commission expires 7-27-99

**Enclosure
VPN-054-98
September 23, 1998**

**Update
to
Trojan Nuclear Plant
Safety Analysis Report
for
Reactor Vessel Package
(PGE-1076)**

Instructions for Update

The following information is provided as a guide for the insertion of new sheets for changes to the "Trojan Nuclear Plant Safety Analysis Report for Reactor Vessel Package," PGE-1076, dated September 23, 1998, Books 1 and 2.

<u>Remove</u>	<u>Insert</u>
Book 1	
Cover Page	Cover Page
Table of Contents	Table of Contents
iii through v	iii through v
List of Effective Pages	List of Effective Pages
Chapter 2	
Pages 2-21 through 2-61	Pages 2-21 through 2-62
Chapter 3	
Pages 3-7 through 3-10	Pages 3-7 through 3-11
Chapter 4	
Page 4-4	Page 4-4
Chapter 5	
Figure 5-1	Figure 5-1
Figure 5-2	Figure 5-2
Chapter 7	
Pages 7-2 and 7-3	Pages 7-2 and 7-3
Page 7-5	Page 7-5
Chapter 8	
Pages 8-7 and 8-8	Pages 8-7 and 8-8
Book 2	
Appendix 4-1	
Cover Sheet	Cover Sheet
Sheet 6	Sheet 6
	Sheets 1-4 Dated 9/21/98 (behind Sheet 33)