

MAR 24 1994

STSB:NLO  
71-9259

MEMORANDUM FOR: The Files  
FROM: Nancy L. Osgood, STSB, IMNS, NMSS  
SUBJECT: TELEPHONE CONFERENCE CALL REGARDING TRANSPORT OF TROJAN  
STEAM GENERATORS

Participants

NRC

Stu Brown Nancy Osgood  
Ross Chappell Mike Webb

Portland General Elec.

Harold Chernoff Steve Nichols  
Mike Lackey Damon Heath

Background

A telephone conference call was held on March 16, 1994, at the request of Portland General Electric Company (PGE), regarding transportation issues associated with the removal of the steam generators from the Trojan plant.

Discussion

1. Package preparation. PGE provided a general description of preparation of the steam generators for transport. Low density concrete would be used to fill the secondary side, but only the channel head and the tubes within the tube sheet would be filled with concrete on the primary side. The tubes would not be filled, because the fill would be made inside containment with the steam generators in a vertical position. NRC stated that steam generators which had been previously approved for transport had the tubes filled with concrete to fix the contamination in place, and that the concrete in the tubes was a large factor in the evaluation of the containment of the package. Nozzles and other penetrations will be sealed with welded cover plates.

2. Package description. There are four steam generators at the Trojan plant. PGE stated that the estimated radioactivity per steam generator was approximately 6500 curies (approximately 400 times an  $A_2$  value for the mix of radionuclides present). The weight of the steam generator without the concrete was approximately 662,000 pounds. The materials of construction of the steam generators is ASTM A533 for the outer shell, and SA 216 for the lower channel head. PGE stated that shielding would be used to ensure that the external dose rates from the package would meet the external radiation standards in 10 CFR Part 71.

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3. Transport mode. The package will be shipped primarily by barge. The barge slip is on the Trojan site. The package will cross approximately 1-1/2 miles of roadway to the Hanford reservation. The overweight permit for the roadway transport will be obtained from the state by the heavy hauler. PGE has been in contact with the Coast Guard and a marine architect regarding the shipments.

4. Schedule. PGE expects to submit an application for package approval in mid-July, 1994. PGE desires a six month period for NRC review. NRC emphasized that to meet such a schedule, the application would need to be thorough and complete. NRC suggested that a pre-application meeting would be beneficial, and that a meeting should be held at the earliest possible time.

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 Nancy L. Osgood  
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DATE	3/21/94		3/24/94	

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