

NRC PUBLIC DOCUMENT ROOM

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)
)
PORTLAND GENERAL ELECTRIC COMPANY,) Docket No. 50-344
ET AL.) (Control Building)
)
(Trojan Nuclear Plant))

STATE OF OREGON INTERROGATORIES TO, AND REQUEST FOR
THE PRODUCTION OF DOCUMENTS FROM, THE PORTLAND GENERAL
ELECTRIC COMPANY ON CONTROL BUILDING MODIFICATIONS

The State of Oregon hereby requests that the Portland General Electric Company, pursuant to 10 CFR § 2.740b, answer separately and fully, in writing under oath or affirmation, the following interrogatories within 14 days after service hereof.

For each response to the interrogatories listed below, identify the person or persons who prepared, or substantially contributed to the preparation of the response.

The State of Oregon further requests that the Portland General Electric Company, pursuant to 10 CFR § 2.741, provide copies of, or make available for inspection and copying, any documents designated by the Portland General Electric Company in response to certain of the accompanying interrogatories within 30 days after service thereof.

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INTERROGATORY 1.

Table 3.5-1 of PGE-1020 shows that the calculated total forces during an OBE on walls 6 and 8 between elevations 45' and 61' exceed the calculated wall capacities. Please justify in technical detail the consequences of this result including:

(a) the fact that these walls are not continuous plane walls as modeled in the STARDYNE computer program;

(b) wall deflections;

(c) load transfers to other walls and the acceptability of such load transfers;

(d) the probability and extent of damage to walls 6 and 8 including spalling;

(e) the consequences of such wall damage to equipment, cables, and piping contained within, penetrating, adjacent to, or in the vicinity of the walls and identify all such equipment, cables and piping;

(f) the personnel hazard associated with such wall damage.

INTERROGATORY 2.

What are the consequences of a design basis hurricane, tornado, earthquake, etc. occurring during movement of the steel plates into position and prior to tensioning of the attachment bolts? Please include in the response the effects on the lifting and transporting equipment and the effects of the plates slamming against nearby structures and equipment.

INTERROGATORY 3.

Please justify in detail the quality and acceptability of the transporting equipment including each item in the system such as chains, slings, etc. the qualification test procedures and acceptance criteria, and when testing will be done. Also, regarding PGE's response to NRC question 1(c) of July 20, 1979, Please state the operators' actual qualifications and the actual extent of supervision during lifting and transporting the plates.

INTERROGATORY 4.

(a) Although PGE states that in response to NRC question 2. of July 20, 1979 that in the event of a plate drop sufficient equipment will remain operable to achieve and maintain a safe shutdown condition, please justify how the plant operator can be expected to take the appropriate actions to achieve a safe shutdown condition considering all of the possible alarms, failure indications, inoperable instrument meters, false meter indications, noise, smoke, dust, etc., that may occur as a result of cables, piping, and equipment being damaged or rendered inoperable as a result of the plate drop.

(b) Please estimate the time required for the operator to achieve a safe shutdown condition in the event of a plate drop and justify the acceptability thereof including specific reference to the standards on which the response is based.

INTERROGATORY 5.

(a) What are the estimated time intervals between the initiation of the lifts of plates 7 and 8 and completion of attachment of these plates to the wall?

(b) Please state why these two operations could not be scheduled to coincide with plant shutdown in order to minimize the risks involved.

INTERROGATORY 6.

Please set forth the standards PGE considers committed to follow during the modification work. For example, will PGE specifically and fully comply with the License Technical Specifications, the modification procedures contained in PGE-1020, as well as each statement in response to questions and interrogatories in the proceeding?

INTERROGATORY 7.

Please justify in detail the technical acceptability of the partial penetration welds between the plate segments. In your response please identify and discuss each of the following:

(a) the minimum defect size detectable by the proposed non-destructive examination;

(b) the acceptance criteria for the proposed non-destructive examination;

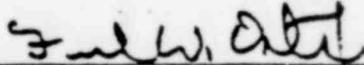
(c) the effect of the maximum undetectable or maximum acceptable defect (whichever is worse) in the worst case configuration and orientation;

(d) welder qualification.

INTERROGATORY 8.

Please state whether the bumping post will be of sufficient strength to stop a runaway rail car of the maximum possible load and speed (see NRC question 19 of July 20) and provide the basis for your conclusion including all assumptions and the sources thereof.

Respectfully submitted,



FRANK W. OSTRANDER
Assistant Attorney General
Of Attorney for the State of Oregon

CERTIFICATE OF SERVICE

I, Frank W. Ostrander, Jr., hereby certify that on this _____ day of August, 1979, I served the within State of Oregon Interrogatories upon the following parties of record by then depositing in the United States Post Office at Portland, Oregon, full, true, and correct copies thereof, addressed to the said parties of record at the following addresses listed below, and prepaying the postage thereon:

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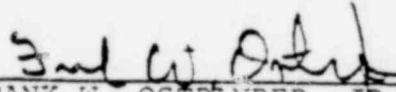
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