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ACCESSION NBR: 8311220288 DOC. DATE: 83/11/15 NOTARIZED: NO DOCKET #
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
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SUBJECT: Advises that triaxial peak accelograph will be mounted on reactor pressure vessel cap space frame at Elevation 584 ft. FSAR will be amended to indicate changed location.

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November 15, 1983
G02-83-1055

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555


Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
SEISMIC INSTRUMENTATION, LOCATION OF

Regulatory Guide 1.12, Revision 1, paragraph C.1.a recommends that one of three triaxial peak accelerographs be provided at "a selected location on the reactor equipment". Presently, the WNP-2 Final Safety Analysis Report section 3.7.4.2 describes the location of the triaxial peak accelerograph meeting this recommendation as "mounted on the reactor vessel head". Environmental review of this location indicates that the instrument is not suited to the anticipated temperatures in that area. As a result, the Supply System will mount the triaxial peak accelerograph on the reactor pressure vessel cap space frame at elevation 584' which is rigidly attached to the primary containment vessel. As discussed in Regulatory Guide 1.12, the triaxial peak accelerograph is required in order to quantify the "magnitude of the response of the systems and components supported on the containment structure". Although not mounted on "a selected location on the reactor equipment" as recommended by the regulatory guide, the alternate location on the RPV cap space frame meets the intent of the guide.

The WNP-2 Final Safety Analysis Report will be amended as shown in the attached revised FSAR page to indicate this changed location. Should you have any further questions, please contact Mr. P. L. Powell, Manager, WNP-2 Licensing.

Very truly yours,


G. C. Sorensen, Manager
Regulatory Programs

PLP/tmh
Attachment

cc: R Auluck - NRC
WS Chin - BPA
AD Toth - NRC Site

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to the free end of each reed inscribes its deflection on a record plate. A calibration sheet for each recorder lists the resonant frequency and acceleration sensitivity of each reed. Data reduction is accomplished by measuring the maximum distance of the scratched record from the zero line. One of these triaxial response-spectrum recorders is equipped with limit switches, for each reed, which are set at a specific acceleration which, when exceeded, light an annunciator in the main control room. This triaxial response-spectrum recorder is located in the reactor building basement and is mounted on the foundation close to the time-history acceleration sensor. One triaxial response-spectrum recorder is mounted on the HPCS injection line piping support outside containment. Another recorder is located on the reactor building floor at elevation 606'-10-1/2" and the last recorder is located on the foundation of the radwaste building within the control portion. Three triaxial peak-accelerographs are provided. These devices record peak accelerations and function in a similar manner to the triaxial response-spectrum recorders. However, the triaxial peak-accelerographs are frequency independent and record just a peak value of acceleration. One of these units is mounted on the ~~reactor vessel head~~. Another unit is located on the HPCS injection line piping inside containment and one unit is mounted on the standby service water piping in the standby service water pumphouse.

3.7.4.3 Control Room Operator Notification

The information, which the system makes available to the control room operator, is as described in 3.7.4.2.

The bases for establishing predetermined values for activating the readout of the seismic instrumentation to the control room operator are:

- a. To initiate the triaxial time-history recorders, at a very low level acceleration equal to 0.01g as recommended by ANSI 18.5, Section 6.4.2.
- b. To provide immediate control room annunciation if the operating basis earthquake has been exceeded.

*... RPV CAP SPACE FRAME ($A \approx 45^\circ$, EL 584'-9"±), WHICH IS RIGIDLY ATTACHED TO THE PRIMARY CONTAINMENT VESSEL.

ATTACHMENT

