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 SCHWENCER, A. Licensing Branch 2

SUBJECT: Forwards procedures for post-accident sample analysis & core damage evaluation, per NUREG-0892 (SER), Item II, B.3 & Section 9.3.2.4. GE interim dissolved gas analysis w/o krypton tracer expected by end of June 1983.

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Washington Public Power Supply System

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June 23, 1983
G02-83-557

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
POST ACCIDENT SAMPLE ANALYSIS AND
CORE DAMAGE EVALUATION PROCEDURES

Attached are procedures for post accident sample analysis and core damage evaluation for WNP-2 fulfilling NUREG-0892 "Safety Evaluation Report related to the operation of WPPSS Nuclear Project No. 2", March 1982, Section 9.3.2.4, Condition 6, "TMI Action Item II.B.3- Post Accident Sampling Capability" and related staff requirements discussed in Section 9.3.2.4.

The Core Damage procedure utilizes reactor water level measurements, radiation from fission gases in containment, hydrogen gas in containment and isotopic analysis of reactor coolant and containment atmosphere to evaluate core damage. The isotopic analysis is based on General Electric's NEDO-22215 "Procedure for the Determination of the Extent of Core Damage Under Accident Conditions", August 1982 by C. C. Lin. The attached procedure has been fully converted to WNP-2 and does not require the extra step of work through the standard General Electric reference plant.

The Post Accident Sampling and Analysis procedure contains procedures for:

- o Gamma Analysis
- o Chlorides (ion chromatography)
- o Boron (ion chromatography)
- o Gas Sample Analysis (containment atmosphere)
- o Iodine and Particulate (containment atmosphere)
- o pH of a Post Accident Sample (reactor coolant)
- o Dissolved Gas Analysis (later)

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Mr. A. Schwencer

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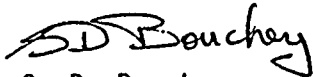
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POST ACCIDENT SAMPLE ANALYSIS AND CORE DAMAGE EVALUATION PROCEDURES

The Dissolved Gas Analysis is the one now being developed by General Electric for the BWR owners of General Electric sampling stations. It will be included as procedure 12.10.8 when received. An Interim Dissolved Gas Analysis without krypton tracer is being furnished initially by General Electric. Receipt is expected by the end of June 1983. We understand this procedure as used at Duane Arnold is acceptable to the NRC.

Should you have further questions, please contact Mr. R. M. Nelson, Manager, WNP-2 Licensing.

Very truly yours,



G. D. Bouchey

Manager, Nuclear Safety and Regulatory Programs

PLP/tmh

Enclosure

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