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SUBJECT: Special rept:1-SR-93-008:on 940103,fuel bldg ventilation
 sys high range radiation monitor inoperable for period
 greater than 72 hours.Caused by difficulties in installing
 Mod 1-FJ-SQ-060.

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VICE PRESIDENT
NUCLEAR PRODUCTION

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January 3, 1994

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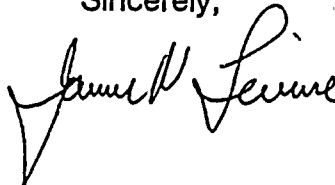
Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket No. STN 50-528(License No. NPF-41)
Special Report 1-SR-93-008
File: 94-020-404

Enclosed please find Special Report 1-SR-93-008 prepared and submitted pursuant to the PVNGS Offsite Dose Calculation Manual requirements and Technical Specification 6.9.2. This report discusses the Fuel Building Ventilation System High Range Radiation Monitor being inoperable for a period greater than 72 hours.

Should you have any questions, please contact Burton A. Grabo, Supervisor, Nuclear Regulatory Affairs, at (602) 393-6492.

Sincerely,



JML/BAG/RJR/rv

Enclosure

cc: W. F. Conway (all with enclosure)
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INPO Records Center

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PALO VERDE NUCLEAR GENERATING STATION UNIT 1

Fuel Building Ventilation System High Range Radiation Monitor (RU-146) Inoperable

License No. NPF-41

Docket No. 50-528

Special Report 1-SR-93-008

Initial Conditions

On December 16, 1993, Palo Verde Unit 1 was in Mode 1 (POWER OPERATION) operating at approximately 85 percent power with spent fuel stored in the Fuel Building (FB) fuel storage pool.

Description of Event

This special report is being submitted pursuant to the PVNGS Offsite Dose Calculation Manual (ODCM) and Technical Specification (TS) 6.9.2 to report an event in which the FB Ventilation System High Range Radiation Monitor (RU-146) was inoperable for a period greater than 72 hours. The 72 hour period for returning the minimum number of high range radiation monitor channels to an OPERABLE condition was exceeded at approximately 0500 MST on December 16, 1993.

ODCM Section 2.1 requires that a high range radiation monitor with a minimum of one noble gas, iodine, and particulate sample channel, and one sample flow rate measuring device be OPERABLE during MODES 1, 2, 3, and 4, or when irradiated fuel is in the fuel storage pool. RU-146 consists of a set of three particulate and iodine samplers and a dual channel noble gas monitor along with the associated pumping and flow control system. This forms the high range portion of the FB exhaust discharge post accident monitoring required by NUREG-0737 and Regulatory Guide 1.97, Rev 2. The purpose of these monitors is to assess releases through FB Essential Ventilation Exhaust under post accident conditions.

Cause of Event

At approximately 0500 MST on December 13, 1993, RU-146 was removed from service for the installation of modification 1-FJ-SQ-060. Installation of modification 1-FJ-SQ-060 will allow operation of RU-146 when the Low Range Radiation Monitor, RU-145, is out of service. This modification includes a change in the sampling system arrangement, modification of computer software, and the modification, removal, and replacement of detectors and associated hardware. As a result of difficulties experienced in the installation of this modification, RU-146 was inoperable greater than 72 hours.

Corrective Action

ODCM ACTIONS 41 and 42, "operate the Fuel Building Essential Ventilation System while moving irradiated fuel" and "initiate the preplanned alternate sampling program," were entered at approximately 0500 MST on December 13, 1993. Plant Modification LDCP 1-SJ-SQ-060 was completed and RU-146 was returned to service at approximately 0532 MST on December 18, 1993.

