

Arizona Public Service Company

April 30, 1984
NOLD 84-208

Mr. John B. Martin
Office of Inspection and Enforcement
Region V
U. S. Nuclear Regulatory Commission
1450 Maria Lane, Suite 210
Walnut Creek Plaza
Walnut Creek, CA 94596

Subject: Palo Verde Nuclear Generating Station
Unit 1
Radiation Monitoring System
Docket Nos. STN 50-528
File: 84-019-026

Reference: (A) Letter from F. A. Wenslawski to G. C. Andognini (NRC IE
Inspection Report 50-528/83-41) dated December 9, 1983.
(B) Letter from E. E. Van Brunt, Jr. to J. B. Martin, dated
January 13, 1984.

Dear Mr. Martin:

Reference (A) identified several concerns associated with the inability of the PVNGS Fuel Building Ventilation Exhaust Radiation Monitoring System (RMS) to provide for isokinetic sampling in accordance with the principles and methods of ANSI N13.1-1969. In view of your response, to reference (B), which did not accept our proposal to take credit for HEPA filtration, we have evaluated this item further and will provide the necessary alterations to the Fuel Building Ventilations Exhaust RMS.

The four (4) concerns identified in Item A of the Notice of Deviation were as follows:

1. Only one sample withdrawal point is provided in the sample probe for a sixty inch diameter exhaust duct;
2. The sample system as designed could not develop necessary flow velocity to achieve the isokinetic condition at the design flow rate of the fuel building normal ventilation exhaust system.
3. The sample probe contains an abrupt ninety degree change in flow direction at the sample collection point;
4. The sample point selected was located less than one diameter downstream of a major junction of two exhaust ducts.

Replacement of the existing sample probe by multipoint sample probe sized for sampling at the flow velocity expected in the duct will alleviate the concerns 1-3. Locating the probe a minimum of five duct diameters downstream of a major junction will alleviate concern 4. The sample probe replacement is expected to be completed prior to attaining 50% Power.

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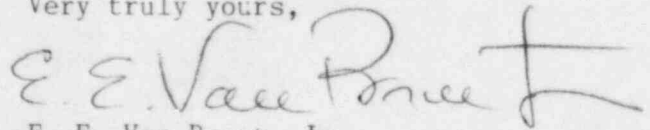
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If you have any further questions, please feel free to contact me.

Very truly yours,



E. E. Van Brunt, Jr.
APS Vice President, Nuclear
ANPP Project Director

EEVBJr/TJB/mb

cc: Director, Office of Nuclear Reactor Regulation
Director, Office of Inspection and Enforcement
NRC Resident Inspector - PVNGS
NRC Project Manager - USNRC