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FACIL: STN-50-528 Palo Verde Nuclear Station, Unit 1, Arizona Publi 05000528
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SUBJECT: Discusses reexam of diesel generator cooling & essential cooling water sys on plant, per 850530 commitment. No evidence of microbiologically induced corrosion or stress corrosion cracking observed.

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161-00818-EEVB/PGN
February 24, 1988

Docket No. STN 50-528

U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

ATTN: Document Control Desk

Reference: Letter from E. E. Van Brunt, Jr., ANPP, to G. W. Knighton, NRC, dated May 30, 1985 (ANPP-32744); Subject: Proposed Reexamination Scope.

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Reexamination of Diesel Generator Cooling
and Essential Cooling Water Systems on PVNGS Unit 1
File: 88-056-026

Per the referenced letter, ANPP committed to perform visual examination of two heat exchangers and accessible piping in the spray pond system of PVNGS Unit 1 at the first refueling outage. The examinations were required to determine if corrosion (including microbiologically induced corrosion (MIC)) or stress corrosion cracking had occurred.

On October 28, 1987, the B Train diesel generator heat exchangers and accessible associated piping were examined. No evidence of MIC or stress corrosion cracking was observed. For the jacket cooling water heat exchanger and adjacent piping, there were a few small rust spots and pinhole defects at the edges of metal gasketed connections, in the epoxy lining of the channel head. The lining was in excellent overall condition, well bonded, and with no evidence of delamination. The fuel oil cooler was found to have had no epoxy lining on the non-corrosion resistant surfaces, with expected general corrosion of unprotected carbon steel in a water environment. The corrosion was cleaned off, the surfaces were epoxy coated, and the heat exchanger and oil cooler were returned to service.

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The B Train Essential Cooling Water Heat Exchanger was examined on November 3, 1987, and also showed no evidence of MIC or stress corrosion cracking. There were a few pinhole defects in the channel heads. Noticeable areas of pinhole defects were observed in the connecting piping elbows. These are most likely due to erosive effects of small amounts of silt in the spray pond water; as they were observed on the far side of the elbow where the flow changes direction. Defect areas were cleaned, recoated with epoxy, and the heat exchanger was returned to service. The lining was in good overall condition, well bonded, with no evidence of delamination.

If you have any questions or require additional information, please call A. C. Rogers at (602) 371-4041.

Very truly yours,

E. E. Van Brunt, Jr.
Executive Vice President
Project Director

EEVB/PGN/ca1

cc: O. M. De Michele
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