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L-01-129

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

Subject: Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
1R14 Steam Generator C-3 Report

In accordance with Beaver Valley Power Station Unit No. 1 Technical Specification 4.4.5.5.c, the NRC is required to be notified with the results of steam generator tube inspections which fall into Category C-3. The following information documents the C-3 examination category for steam generators A, B & C (RC-E-1A, B and C, respectively) which were inspected during the 1R14 refueling outage.

A total of 58 tubes in RC-E-1A, were found to be defective from eddy current examinations (bobbin coil and plus point probes). A total of 34 tubes in RC-E-1B were found to be defective. A total of 45 tubes in RC-E-1C were found to be defective. All defective tubes were removed from service through tube plugging.

The primary degradation mechanism affecting the Beaver Valley Power Station Unit #1 steam generators is Outside Diameter Stress Corrosion Cracking (ODSCC) at or near the hot leg top-of-tubesheet and at tube support plate intersections. The ODSCC observed at the hot leg top-of-tubesheet has historically been located in the sludge pile region. The majority of this sludge pile region was removed during the secondary side chemical cleaning process performed this outage.

Boric acid addition to the secondary water is continuing in an effort to reduce the propensity of ODSCC. Additionally, secondary water chemistry molar ratio control has been implemented to further mitigate the growth and propagation of ODSCC. Sludge lancing the secondary side top-of-tubesheet has been performed to remove accumulated sludge that contributes to the formation of the aggressive environment that can result in the initiation of ODSCC in this region. Furthermore, secondary water chemistry control is optimized to keep corrosion product transport to the steam generators as low as possible to minimize the accumulation of new sludge during the operating cycle.

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If there are any questions concerning this matter, please contact Mr. Thomas S. Cosgrove, Manager, Regulatory Affairs at 724-682-5203.

Sincerely,

A handwritten signature in black ink, appearing to read "Lew W. Myers". The signature is written in a cursive style with a prominent horizontal line under the name.

Lew W. Myers

c: Mr. L. J. Burkhart, Project Manager
Mr. D. M. Kern, Sr. Resident Inspector
Mr. H. J. Miller, NRC Region I Administrator