



Duquesne Light Company

Beaver Valley Power Station
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May 3, 1996
NPD1VPO:0472

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United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Gentlemen:

Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
Special Report

In accordance with Appendix A, Beaver Valley Technical Specification 4.4.5.5.c, "Steam Generators", the following Special Report is submitted. This report is required to document, prior to resumption of plant operation, the results of steam generator tube inspections which fall into technical specification Category C-3.

Technical Specification 4.4.5.5.c:

The RC-E-1A steam generator was pre-designated as the generator required to be sampled during this inspection interval. Examination of the RC-E-1A steam generator resulted in the designation as defective a total of seventy-nine (79) tubes. These defective tubes were identified using the Plus Point Probe examination of the hot leg top-of-tubesheet region. These tubes were removed from service through tube plugging. Three additional tubes were removed from service in the 1A steam generator, one due to Cold Leg Thinning and two due to Row 1 U-Bend indications.

The primary degradation mechanism affecting the Beaver Valley Power Station Unit 1 Steam Generators is Outside Diameter Stress Corrosion Cracking (ODSCC) at the hot leg top-of-tubesheet in the sludge pile regions and at tube support plate intersections.

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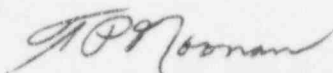


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Boric acid addition to the secondary water is continuing in an effort to reduce the propensity for ODSCC. Additionally, secondary water chemistry molar ratio control has been implemented to further mitigate the growth and propagation of ODSCC. Sludge lancing the secondary side top-of-tubesheets 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.

Sincerely,



T. P. Noonan
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GFZ/nlc

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