



Duquesne Light Company

Beaver Valley Power Station
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May 13, 1996
NPD1VPO:0473

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United States Nuclear Regulatory Commission
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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.a, "Steam Generators", the following Special Report is submitted. This report documents the results of the Inservice Inspection of steam generator tubes, performed during the Eleventh Refueling Outage.

Technical Specification 4.4.5.5.a

On April 29, 1996, the inservice inspection of the tubing in steam generators RC-E-1A, RC-E-1B and RC-E-1C was completed. The number of tubes inspected, and a breakdown of tubes removed from service for each steam generator, is documented in Table 1.

One hundred percent (100%) of the inservice tubes in Steam Generators RC-E-1A, 1B and 1C were examined full length with bobbin coil probes. All distorted tube support plate signals, with bobbin coil voltages >2.00 volts, were further evaluated using Rotating Pancake Coil (RPC) probes. Those signals >2.00 volts, that were confirmed (detected) with RPC, were removed from service.

One hundred percent (100%) of the hot leg top-of-tubesheet region was examined in each steam generator using the 3-coil Plus Point RPC probe. A total of two hundred thirty-two (232) tubes were removed from service for

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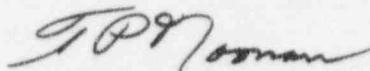
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indications at this location. Of this total, one (1) tube in RC-E-1A had an additional support plate indication in excess of the 2.00 volt limit that was confirmed with RPC, and four (4) tubes in RC-E-1B had circumferential indications that were associated with the WEXTEx transition area.

Eighteen (18) tubes with dents located at the tube support plate intersections, that exhibited bobbin voltages ≥ 5.00 volts, were re-examined using RPC. This encompassed 100% of the dents with voltages ≥ 5.00 volts and no indications were observed. In addition, seventy-seven (77) tube support plate residual signals in sixty-two (62) tubes, with amplitudes large enough to mask a 1.00 volt indication, were re-examined using RPC. No indications were observed at these locations.

Three hundred forty-four (344), out of a total of four hundred forty-six (446), candidate tubes were returned to service. All returned-to-service tubes were examined full length with the bobbin coil probes; and, in addition, were examined with the 3-coil Plus Point RPC probe at the hot leg top-of-tubesheet region.

Sincerely,



T. P. Noonan
Division Vice President
Nuclear Operations/Plant Manager

GFZ/nlc

Attachment

TABLE 1

	RC-E-1A	RC-E-1B	RC-E-1C
Total number of tubes in generator.	3388	3388	3388
Number of tubes previously removed from service. (Pre-eleventh refueling outage)	735	483	422
Number of tubes examined full length. (with bobbin coil probes)	2653	2905	2966
Number of new tubes removed from service this outage. (does not include de-plugged tubes)	82	110	50
Greater than 2.00 volt repair	-	1	-
Top-of-tubesheet distorted signals	78	103	50
Top-of-tubesheet and > 2.00 volts	1	-	-
Cold Leg Thinning	1	-	-
Row 1 U-Bend Indications	2	2	-
AVB Wear	-	4	-
Number of tubes de-plugged for examination. (This is in addition to the full length inspections listed above for tubes which were not plugged.)	111	125	210
Number of tubes re-plugged.	25	37	40
Greater than 2.00 volt repair criteria	11	20	20
Top-of-tubesheet distorted signals	4	8	3
Top-of-tubesheet and >2.00 volts	2	1	-
AVB Wear/U-Bend	-	4	4
Restricted Tubes	8	4	13
Number of tubes returned to service under the voltage- based repair criteria. (These tubes examined full length)	86	88	170
Total number of tubes currently removed from service. (Post eleventh refueling outage)	731	505	302
Percentage of tubes currently plugged.	21.58%	14.91%	8.91%

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