

Washington Public Power Supply System

Box 1223 Elma, Washington 98541 (206) 482-4428

Docket No. 50-508

January 7, 1983
G03-83-23

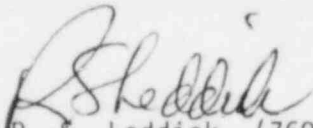
U. S. Nuclear Regulatory Commission, Region V
Office of Inspection and Enforcement
1450 Maria Lane, Suite 260
Walnut Creek, California 94596-5368

Attention: Mr. D. M. Sternberg, Chief
Reactor Projects Branch No. 1

Subject: POTENTIAL 10CFR50.55(e) DEFICIENCY
ROCKBESTOS INSULATED CABLE, TYPE D60-1
(D/N NO. 43)

On December 3, 1982, the Supply System notified your office of a potential 10CFR50.55(e) deficiency concerning the subject condition. Attached is a Supply System approved interim report that provides a description of the problem and status of corrective actions taken.

A final report will be submitted to your office by April 15, 1983. Should you have any questions or desire further information, please contact me directly.


R. S. Leddick (760)
Program Director, WNP-3

DRC:nj

Attachments

cc: J. Adams - NESCO
D. Smithpeter - BPA
Ebasco - New York
WNP-3 Files - Richland

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WASHINGTON NUCLEAR PROJECT NO. 3

DOCKET 50-508

POTENTIAL 10CFR50.55(e) DEFICIENCY
INTERIM REPORT

ROCKBESTOS INSULATED CABLE, TYPE D60-1
D/N NO. 43

Description of the Problem

On February 22-23, 1982, Ebasco Vendor Quality Assurance (VQA) inspected and released, for shipment to the site, thirty-nine (39) reels of Type D60-1 cable. The cable was supplied by the Rockbestos Company per Contract Specification 3240-62B. On March 10, 1982, Rockbestos presented Ebasco Vendor Quality Assurance with additional reels of Type D60-1 cable from the same production run as the initial thirty-nine (39) reels. During the inspection of these additional reels, Ebasco Vendor Quality Assurance detected discrepancies in minimum conductor insulation thickness. The unacceptable insulation thickness was evidenced by dents in the insulation. The dents were caused by excessive pressure exerted by the printing wheel at points where the drain wire crossed over the interstices of the shield twisted pair cable. Upon notification by Ebasco Vendor Quality Assurance, Rockbestos performed an investigation and determined that the same condition probably existed on the initial 39 reels shipped to the site.

The production run consisted of ninety-five (95) reels:

- 1) Thirty-nine (39) reels were shipped to the Site.
- 2) Fifty-six (56) reels were located at the Vendor's Facility.

Approach to the Resolution of the Problem and Status of the Proposed Resolution

The following steps are being taken to resolve the problem:

- Forty-two (42) of the fifty-six (56) reels at the Vendor's Facility were rejected and scrapped. The remaining fourteen (14) reels were reworked and reinspected.
- All 39 cable reels of the initial shipment were returned to the Vendor's Facility for reinspection and rework. Reinspection by the vendor confirmed existence of the same defect.
- Rework (i.e., ovenizing) of 53 reels (39 returned to Vendor plus 14 located at Vendor's Facility), to meet specification dimensional requirements, was completed in the Vendor's Facility. The hot oven treatment allows the dented insulation to "spring back" to its original shape. This is because the X-link polyethylene insulation has a "memory" and can be restored to its previous shape when heated.

POTENTIAL 10CFR50.55(e) DEFICIENCY
INTERIM REPORT

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- The reworked cable was dielectrically tested and samples of the reworked cable were subjected to the 30-day LOCA test. The 100-day LOCA test is in progress.
- Those cable reels, satisfactorily reworked and returned to the site, have been tagged and segregated precluding Class I use pending completion and analysis of the 100-day LOCA testing. Remaining reels have been identified and will be tagged and segregated upon receipt at the Site.
- Rockbestos has advised the NRC of a possible future 10CFR21 Report on this subject.

Reasons Why The Final Report Will Be Delayed

Rockbestos has not completed the 100-day LOCA tests as described above. It is anticipated this test will be completed by February 28, 1983. Until the test results are obtained, a determination of reportability and analysis of safety implications cannot be completed.

Submission of Final Report

A report of corrective/preventive actions taken and an analysis of the safety implications will be submitted to the NRC by April 15, 1983.