



CONAX CORPORATION, 2300 WALDEN AVENUE, BUFFALO, NEW YORK 14225 TEL. 716-684-4500 TELEX - 91-275

August 31, 1984

Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Notification of a Potential Defect
Conax Power Lead (PL) Gland Assemblies Qualified For Nuclear Service

Gentlemen:

Your attention is directed to our telephone communication with your Mr. Harry Kisteo of Regional Office 1 on August 29, 1984 concerning reasonable indication of a defect. A conditioned situation exists which Conax has designated a potential defect.

This formal communication is submitted as timely evidence of our compliance to the requirements of 10 CFR Part 21, Paragraph 21.21, b(2), with the following information being provided to the extent known to date per items i through viii of paragraph 21.21, b(3), of 10 CFR Part 21.

I) Reporting Individual:

W. S. Rautio
President
Conax Buffalo Corporation
2300 Walden Avenue
Buffalo, New York 14225
(716) 684-4500

II) A. Component Identification

Conax Qualified Nuclear Service Power Lead Gland Assemblies

Conax Part Numbers: 7D92-11000-01, -02, -03, -04
7D92-11001-01, -02, -03, -04, -05
N-11150-01
N-11151-01

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B. Facility Identification

- i. Vermont Yankee Nuclear Plant
Governor Hunt Road
Vernon, VT 05354
- ii. Perry Nuclear Power Plant, Units 1 & 2
Perry, Ohio 44081
(P.O. Box 85)

III) Component Supplier

Conax Buffalo Corporation
2300 Walden Avenue
Buffalo, New York 14225

IV) Nature of Potential Defect

The nature of the potential defect, as designated by Conax, is a loss of electrical continuity, resulting from a gradual reduction in the cross-sectional area of the conductors in the internal sealant area of the gland and eventually leading to total conductor separation in some cases. The phenomea appears to be related to time, temperature, and initial assembly torquing and may be unique to Vermont Yankee's normal operating environment.

The result of phenomea could affect the electrical performance of safety related equipment into which these assemblies have been installed.

V) Date of Information

This potential defect was brought to my attention in a meeting held on August 27, 1984 by S. M. Dale, Chief Engineer of our Industrial Products Division and W. C. Federick, Manager of our Nuclear Products Division.

VI) Number and Location of Components

- A. Forty-six (46) Power Lead Gland Assemblies, as follows, were supplied to Vermont Yankee Nuclear Plant in July, 1984
 - 26 pcs - 2 conductor/16 AWG (Conax P/N N-11150-01)
 - 20 pcs - 8 conductor/14 AWG (Conax P/N N-11151-01)
- B. Eight hundred and twenty-one (821) Power Lead Gland Assemblies, as follows, were supplied to Perry Nuclear Power Plant, Units 1 and 2, in March thru June of 1984.

69 pcs - 2 conductor/14 AWG (Conax P/N 7D92-11000-01)
128 pcs - 4 conductor/14 AWG (Conax P/N 7D92-11000-02)
57 pcs - 6 conductor/14 AWG (Conax P/N 7D92-11000-03)
9 pcs - 8 conductor/14 AWG (Conax P/N 7D92-11000-04)
294 pcs - 2 conductor/16 AWG (Conax P/N 7D92-11001-01)
55 pcs - 4 conductor/16 AWG (Conax P/N 7D92-11001-02)
3 pcs - 4 conductor/16 AWG (Conax P/N 7D92-11001-03)
9 pcs - 8 conductor/16 AWG (Conax P/N 7D92-11001-04)
197 pcs - 4 conductor/16 AWG (Conax P/N 7D92-11001-05)

VII) Corrective Action

Both Vermont Yankee Nuclear Plant and Perry Nuclear Power Plant, Units 1 and 2, were notified on August 27, 1984 concerning the potential defect and of our requirement to report to the NRC. At that point, Vermont Yankee had already removed all their Power Lead Gland Assemblies from service. Within the next 180 days, Conax will complete an evaluation of the parameters that may cause this potential defect and will advise the Perry Nuclear Power Plant of the results.

VIII) Recommendations and Advice

Until the causes of the potential defect are determined, Conax is unable to fully evaluate the existence of a safety hazard for the Perry Nuclear Power Plant. Conax will provide information as it becomes available to the Perry Nuclear Power Plant for their assessment of the situation. Conax recommends that the Power Lead Glands not be utilized in any safety related circuits until the evaluation is complete.

For further clarification of our position or any additional information, please contact me directly.

Very truly yours,

CONAX BUFFALO CORPORATION


Wilbur S. Rautio
President

WSR/ct

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