



RESEARCH DYNAMICS INCORPORATED

637 Redna Terrace, Unit 1, Cincinnati, Ohio 45215
Telephone: (513) 772-8400



July 25, 1985

RDI-NRCO-003

Director, Region III
U.S. Nuclear Regulatory Office
799 Roosevelt Road
Glen Ellyn, IL 60137

Re: Notification of an anomaly of a Component, 10CFR Part 21

Dear Sir:

This letter constitutes the written report concerning the above-referenced anomaly of a component required by Section 21.21 (b) (3) of 10CFR Part 21.

The person making the report is Freeman F. Suagee, Vice President and General Manager, Research Dynamics Incorporated, 637 Redna Terrace, Unit # 1, Cincinnati, OH 45215.

The component for which this anomaly occurred was an NDT Flow Sensor 838-1 (SN-103) and the accompanying cable connectors. The anomaly occurred July 24, 1985 while testing the above assembly.

During the first four (4) seconds of the HELB testing of the NDT Flow Sensor (SN-103) steam entered between the male sensor half (CE9444-1002) and female cable half (CE9444-1000) of the cable connector. At the time of the anomaly environmental pressure was 69.24 psig, environmental temperature was 256°F, the temperature of the sensor was 308°F. Due to loss of the connector seal, water entered the connector assembly and cable creating a direct short which triggered the NDT system defect mode of the flow detector. Before attempts to retest NDT will provide RayChem WCSF nuclear grade heat shrink tubing to seal the sensor-cable connector interface.

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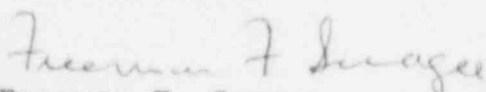
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RDI does not have information relative to the number and location of all such components in use at or being supplied for facilities or activities subject to the regulations of 10CFR Part 21. With respect to the corrective action to be taken, this would be the responsibility of NDT INTERNATIONAL, INC.

We trust that this report is satisfactory; however, if you require additional information, we will be happy to supply it to the extent that we can.

Yours truly,

RESEARCH DYNAMICS INCORPORATED


Dr. Freeman F. Suagee
Vice President and General Manager

FFS/jwa

cc: J.W. Anno (Document Controller)
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