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NDT INTERNATIONAL, INC.
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August 5, 1985

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

Subject: 10CFR Part 21, Notice of Anomaly
Research Dynamics Inc. letter dated July 25, 1985

Dear Sir:

Pursuant to the above referenced letter and accompanying report of defect and/or failure, RDI No. RDI-INT-165, we offer the follwoing additional information and proposed corrective action.

The Sensor/Connector assembly, i.e. NDT-838-1 Sensor and ITT Cannon Connector CE9444-1000 and -1002, is employed by the following utility companies at the listed Nuclear Stations, but not in the configuration tested:

Philadelphia Electric Company	Peach Bottom Limerick
Commonwealth Edison Company	Dresden Quad Cities
Carolina Power & Light Company	Brunswick
Public Service Electric & Gas Co.	Hope Creek

The assembly tested did not contain an over-the-connector layer of Raychem WCSF Shrink Sleeving as is employed at all of the above listed utility sites. NDT had been asked if the over-wrap was necessary, by two of the owners of our SRV Position Monitoring Systems, namely Philadelphia Electric and Commonwealth Edison. Their concern was that they might cause damage to the accompanying cable assembly when removing the shrink sleeve during calibration procedures. The results of the test verified that the shrink sleeve is necessary to create the proper environmental seal to withstand an accident condition.

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A re-test is planned for this Sensor/Connector assembly utilizing a shrink sleeve environmental seal of WCSF-N tubing as recommended by the Raychem Corporation, of Menlo Park, California. The re-test is scheduled for August 7, 1985 at Research Dynamics Incorporated's lab at the Univ. of Cincinnati.

Previous qualification testing, performed by Wyle Labs in Huntsville, Alabama, recommended use of a shrink sleeve assembly, but also recommended replacement of the sleeve after every refueling outage. Raychem qualification reports on the WCSF-N material offer a qualified life of 40 years at 90°C (194°F), which is well over the requirements for the South Texas Project parameters.

Based on the results obtained from the retest NDT International will include recommended instructions for sensor installation utilizing the WCSF-N shrink sleeving in more detail than currently contained in the system Technical Operations Manual. All utility owners will be contacted and provided with the recommended installation procedure, if they do not already employ such a procedure.

If you need any additional information please do not hesitate to contact the writer.

Very truly yours,

David L. Kailer

David L. Kailer
Quality Assurance Manager
NDT International, Inc.

cc: Dr. J. N. Anno, RDI
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