



Gilbert/Commonwealth engineers and consultants

GILBERT/COMMONWEALTH, INC., P.O. Box 1498, Reading, PA 19603/Tel. 215 775-2600/Cable Gilasoc/Telex 836-431

October 26, 1984

W.F. SAILER
Vice President & General Manager
Quality Assurance Division

United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Washington, D.C. 20555

Attention: Mr. R. C. DeYoung

Re: Reportable Event
Postulated Pipe Rupture
Jet Impingement Loads

Dear Mr. DeYoung:

This documents my report by telephone under the provisions of 10CFR21 on October 24, 1984, at approximately 5:20 p.m.

Individual Who Reported

Mr. W. F. Sailer, Vice President and General Manager, Quality Assurance Division, Gilbert/Commonwealth, Inc.

Facility Involved

Perry Nuclear Power Plant, Units 1 and 2, being constructed by the Cleveland Electric Illuminating Company.

Activity/Component Involved

Feedwater System pipe rupture design.

Nature of the Defect

An erroneous assumption was made in designing for postulated pipe rupture of the feedwater system. It was assumed that jet force and jet shape information used for the feedwater pump side of a break could also be used for the reactor side of the break.

A recently received report of GE's analysis indicates that the total jet force is 25% greater, and the jet shape is potentially different, than had been assumed in the G/C calculation. This may result in the failure of protection devices or essential equipment.

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Date Information Obtained

The QAD General Manager was informed on October 24, 1984 of the reportability of this item.

The jet pressure calculations for other Perry systems have been reviewed. It has been determined that this discrepancy exists only in the Feedwater System.

Corrective Action

Gilbert/Commonwealth will review all targets and shields affected by the increased pressure to determine whether failure of the protection device or the essential equipment will occur.

The review will take three months to complete. Additional shielding will be designed and installed if required by the results of the review.

If you require any further information, please call me at (215)775-2600, Extension 7543.

Very truly yours,

W F Sailer/wa

W. F. Sailer
Vice President & General Manager
Quality Assurance Division

WFS:kb
Attachment

cc: H. Lorenz
C. D. Williams
G. R. Leidich - CEI
R. C. DeYoung - 2
U. Potapovs - Vendor Branch, NRC
Document Management Branch - NRC