



Gilbert/Commonwealth engineers and consultants

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

December 9, 1985

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

United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Washington, DC 20555

Attention: Mr. J. M. Taylor

Re: Reportable Condition
Unrestrained Expansion Joints
Nuclear Services, Seawater System

Dear Mr. Taylor:

This documents my report by telephone under the provisions of 10CFR21 on December 6, 1985 at approximately 4:00 p.m. to Mr. G. Lanik.

Individual Who Reported

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

Facility Involved

Crystal River Unit 3, operated by the Florida Power Corporation.

Activity/Component Involved

Design of inlet and outlet piping to Nuclear Services Seawater System Heat Exchangers.

Nature of the Defect

Cracks were noted on a pedestal supporting discharge piping for two Nuclear Services Seawater (RW) System heat exchangers. Review of the original piping analysis determined that no special loads were applied for unrestrained expansion points. Application, in the analysis model, of a force due to pressure across the unrestrained expansion joints will exceed the design capacity of the support pedestals. While the noted cracks could not be conclusively attributed to the unrestrained pressure loading, the integrity of the RW supply and discharge piping is not assured without the addition of tie rods on the expansion joints.

Bill Jones
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Date Information Obtained

The Quality Assurance Division General Manager was informed on December 5, 1985, that this condition is reportable.

Corrective Action

Tie rods have been installed on the expansion joints on the inlet and outlet piping for each of the four RW System heat exchangers (eight expansion joints). The cracked pedestal has been repaired.

A review is being made to determine whether there are any other unrestrained expansion joints in safety-related systems elsewhere on the Crystal River Project, or on other nuclear plant designed by Gilbert/Commonwealth, Inc. If any other unrestrained expansion joints are found, a review of the piping analysis will be performed to determine whether the design capacity has been exceeded. If so, appropriate corrective action will be taken.

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

Very truly yours,

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

WFS:kb

cc: H. Lorenz
C. D. Williams
E. M. Good - Florida Power Corp.
B. A. Taylor - Florida Power Corp.
J. M. Taylor - (2)
G. G. Zech - Vendor Program Branch, NRC
Document Management Branch, NRC