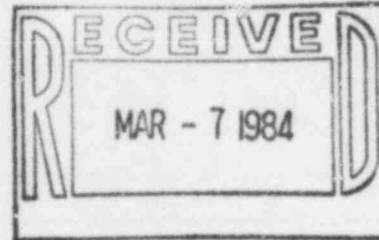


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February 29, 1984

W3K84-0433
Q-3-A35.07.99



Mr. John T. Collins
Regional Administrator, Region IV
U. S. Nuclear Regulatory Commission
611 Ryan Drive, Suite 1000
Arlington, VA 22202

REFERENCE: Telecon C. N. Hooper (LP&L) and W. Crossman (NRC IV) on
January 20, 1984

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Significant Construction Deficiency No. 99
"Safety Injection Tank (SIT) Isolation Valve"
First Interim Report

In accordance with the requirements of 10CFR50.55(e), we are hereby providing two copies of the Interim Report of Significant Construction Deficiency No. 99, "Safety Injection Tank (SIT) Isolation Valve." This item was previously identified as PRD No. 143.

If you have any questions, please advise.

Very truly yours,

T. F. Gerrets
T. F. Gerrets

Corporate Quality Assurance Manager

TFG:CNH:VBR

Attachment

cc: Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555
(15 copies)

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Mr. John T. Collins
February 29, 1984
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cc: Director
Office of Management
Information and Program Control
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. E. L. Blake
Shaw, Pittman, Potts, & Trowbridge
1800 M Street, N.W.
Washington, D.C. 20036

Mr. W. M. Stevenson
Monroe & Lemann
1424 Whitney Building
New Orleans, Louisiana 70130

Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

INTERIM REPORT OF
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 99
"SAFETY INJECTION TANK (SIT) ISOLATION VALVE"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes a deficiency in the performance requirements of the Safety Injection Tank (SIT) Isolation Valve ISI-VI507 TK2A (SI-332A) supplied by the Lunkenheimer Corporation with a Limitorque Corporation Actuator.

To the best of our knowledge, this deficiency has not been reported to the USNRC pursuant to 10CFR21.

DESCRIPTION

During Preoperational Testing, SIT Isolation Valve ISI-VI507 TK2A (SI-332A) appeared to mechanically bind, causing the valve motor to trip on overload. Inspection of the valve actuator found a broken motor pinion gear, stripped worm gear, and broken retainer ring.

FSAR Section 6.3.2.2.1 requires that this valve open on demand from an SIAS when the RCS pressure is less than 400 psig. This function ensures that the tank will discharge automatically during a LOCA.

SAFETY IMPLICATION

The valve in question is locked open when RCS pressure is increased above 500 psig during normal power operation. During plant cooldown and shutdown cooling, the SIT pressure is reduced to 377 psig when RCS pressure decreases below 650 psig. When RCS pressure is below 400 psig, the SIT isolation valve will be closed. Upon SIAS, this valve is required to automatically open. Therefore, if left uncorrected, the failure of this valve could result in the inability to automatically discharge into the RCS following a depressurization event.

CORRECTIVE ACTION

The valve actuator has been inspected, repaired, and tested. Actuator components which failed are unavailable for material testing. A Final Report will be issued pending an inspection and evaluation by a Lunkenheimer Corporation Representative.

A status of Final Report will be submitted to the USNRC on or before April 6, 1984.