



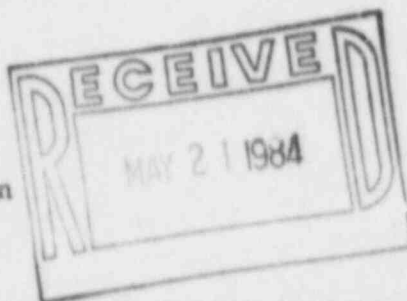
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May 11, 1984

W3K84-1140  
Q-3-A35.07.109

Mr. John T. Collins  
Regional Administrator, Region IV  
U. S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76012



REFERENCE: Telecon C. Hooper (LP&L) and W. Sidele (NRC Region IV)  
on April 11, 1984

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3  
Docket No. 50-382  
Significant Construction Deficiency No. 109  
"Inadequate Design of QSPDS/PPS Circuit Interface"  
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. 109, "Inadequate Design of QSPDS/PPS Circuit Interface". This item was previously reported as PRD No. 164.

If you have any questions, please advise.

Very truly yours,

T. F. Gerrets  
Corporate Quality Assurance Manager

TFG:CNH:SSTG

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

Director  
Office of Management  
Information and Program Control  
U. S. Nuclear Regulatory Commission  
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Mr. John T. Collins

May 11, 1984

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cc: Mr. E. L. Blake

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INTERIM REPORT OF  
SIGNIFICANT CONSTRUCTION DEFICIENCY NO. 109  
"INADEQUATE DESIGN OF QSPDS/PPS CIRCUIT INTERFACE"

INTRODUCTION

This report is submitted pursuant to 10CFR50.55(e). It describes the electrical grounds on signal common for channels "C" and "D" of PPS.

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

DESCRIPTION

With the present design, low pressurizer pressure signals for channels "C" and "D" inputs to QSPDS system are connected from non-isolated outputs of the process analog control cabinet (PAC) CP27 and CP28, respectively. This connection has introduced an electrical ground on signal commons in channels "C" and "D" of the PPS.

SAFETY IMPLICATIONS

If the above ground problem was left uncorrected, following an actual low pressurizer pressure event, channels "C" and "D" fail high and could not initiate a PPS trip.

CORRECTIVE ACTION TAKEN

PAC Panels CP27 and CP28 will be modified to add Westinghouse NLP-3 PAC cards and provide associated wiring to facilitate an isolated output signal to QSPDS. DCN-1C-1935 and DCN-1C-1520, Rev. 3 were issued to cover these changes.

An update or Final Report will be submitted to the USNRC on or before May 25, 1984.