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 MATLOCK, R.G.      Washington Public Power Supply System  
 RECIP. NAME      RECIPIENT AFFILIATION  
 ENGELKEN, R.H.      Region 5, San Francisco, Office of the Director

SUBJECT: Interim deficiency rept, re wiring interfaces on motor operators. Conflict discovered between electrical const. drawings & info provided by subcontractor. Followup rept to be submitted by 810318.

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 TITLE: Construction Deficiency Report (10CFR50.55E)

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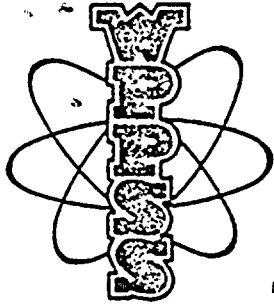
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G02-81-04

January 7, 1981

Docket No. 50-397

Nuclear Regulatory Commission  
Region V  
Suite 202, Walnut Creek Plaza  
1990 North California Blvd.  
Walnut Creek, California 94596.

Attention: Mr. R. H. Engelken, Director

Gentlemen:

Subject: WPPSS Nuclear Project No. 2  
Reportable Deficiency - 10CFR50.55(e)  
Wiring Interfaces on Motor Operators

In accordance with the provisions of 10CFR50.55(e), your staff was informed by telephone on December 8, 1980, of a potentially reportable deficiency involving engineering design and procurement of motor operated valves. During an engineering design review, it was discovered that a conflict exists between electrical construction drawings and the information provided by the motor operator subcontractor.

Attached is our interim report on this deficiency.

If you require additional information, please contact us.

Very truly yours,

*R. G. Matlock*  
R. G. Matlock  
Program Director, WNP-2

RGM:BHS:cph  
attachment

cc w/att: JJ Verderber - Burns & Roe  
V. Stello - NRC  
AD Toth - NRC Resident Inspector  
B. Wood - NUS/LIS  
JR Lewis - BPA  
WNP-2 Files

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INTERIM REPORT ON THE POTENTIAL 10CFR50.55(e)  
REPORTABLE DEFICIENCY IN WIRING  
INTERFACE FOR SAFETY-RELATED VALVE MOTOR OPERATORS

NATURE OF POTENTIAL PROBLEM

A review of a vendor drawing submittal in regards to motor operated valves from the Borg-Warner Corporation was conducted in October of 1980. During this review, Burns and Roe Engineering discovered a mismatch between the connection/wiring diagrams for RCIC-V-69, RCIC-V-110 and RCIC-V-113, and vendor wiring diagrams. Furthermore, the accompanying motor data for RCIC-V-69 indicated a voltage rating of 125 VDC, whereas the contract specification indicated a voltage of 250 VDC which is a design requirement.

Drawing E-540, Sheets 1 and 2, indicate cable connections direct to the limit switch terminals and limit switch interconnections to be done by the electrical construction contractor. The vendor wiring diagram shows prewired connections of the limit switches to a terminal block and between selected limit switches.

A preliminary analysis reveals that the contract specifications for the aforementioned valves require terminal blocks to be provided for connection of all external cabling. Apparently, this requirement was not considered in the design stage of Drawing E-540 nor was the vendor drawing submittal used as basis for the construction drawing.

APPROACH TO AND STATUS OF PROBLEM RESOLUTION

Burns and Roe is evaluating the scope, cause and reportability of the problem. The connection/wiring diagram for each motor operated valve under the particular contract, Contract 215, will be reviewed against the vendor's wiring diagram. Changes in the construction drawings will be made as needed and the installed wiring reterminated accordingly.

The Contract 215 contractor has been informed of the voltage problem of RCIC-V-69. A field inspection at the receiving warehouse will be made to determine if the motor, as shipped, is in fact deficient. If so, the motor operator will be replaced. The contractor's procurement procedure will be reviewed to determine adequacy and compliance to the contract specifications.



PROJECTED COMPLETION OF FINAL REPORT AND CORRECTIVE ACTION

There are around 45 safety-related motor operated valves in Contract 215. The design problem could also apply to non-safety-related valves and valves procured under other contracts should the deficiency be generic to the design procedure. Hence, additional time is required to complete the review process. A follow-up report will be submitted by March 18, 1981.

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