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 AUTH. NAME: AUTHORITY AFFILIATION
 RENBERGER, D.L. Washington Public Power Supply System
 RECIP. NAME: RECIPIENT AFFILIATION
 ENGELKEN, R.H. Region 5, San Francisco, Office of the Director

SUBJECT: Deficiency rept re Limitorque dc valve operators w/Class B insulation not qualified to IEEE 382. Caused by failure of Reliance Electric Co to impose mat'ls control on sub-suppliers for dc motors. Defective operator will be replaced.

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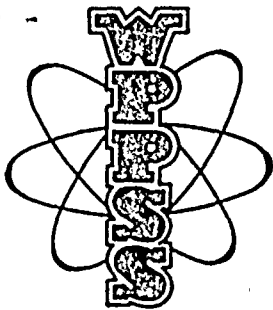
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Docket No. 50-397

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

Attention: Mr. R. H. Engelken; Director

Gentlemen:

Subject: WPPSS NUCLEAR PROJECT NO. 2
REPORTABLE DEFICIENCY - 10CFR50.55(e)
LIMITORQUE DC VALVE OPERATOR WITH
CLASS B INSULATION

In accordance with the provisions of 10CFR50.55(e), your staff was informed by telephone on October 3, 1980, of a reportable deficiency involving a Velan valve with Limitorque motor operator. The DC drive motor with Class B insulation, manufactured by Reliance Electric, appears to have no material certification, thus invalidating Limitorque's attempt to apply the result of its type testing. Attached is our report on this deficiency.

If you require additional information, please contact us.

Very truly yours,

D. L. Renberger
D. L. RENBERGER
Assistant Director,
Technology

DLR:BHS:cd
attachment

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REPORTED DEFICIENCY AND CORRECTIVE ACTION
FOR LIMITORQUE DC VALVE OPERATORS WITH CLASS B
INSULATION NOT QUALIFIED TO IEEE 382

NATURE OF DEFICIENCY:

During an environmental qualification review of safety-related motor-operated valves for WNP-2, the Qualification Group of WPPSS Engineering questioned the ability of Limitorque DC motor operators with Class B insulation to qualify to IEEE 382 as required in the contract specifications. Further review of the subject revealed one deficiency. The DC motor for Velan-supplied Valve RCIC-V-31 was made by Reliance Electric Company which does not impose materials control on their subsuppliers for DC motors. Hence, the qualification tests and analyses made by Limitorque on a number of motor operators cannot be considered to be generic when applied to motor operators equipped with Reliance motors. This deficiency is a significant breakdown in the Quality Assurance Program involving the supply of a defective component by a component vendor.

SAFETY IMPLICATIONS:

Valve RCIC-V-31 is a suction valve between the RCIC Pump RCIC-P-1 and the suppression pool. Normally, this valve is closed and water is taken from the condensate tank through Valve RCIC-V-10. When water from the condensate tank is lost or used up, an automatic transfer is made to the suppression pool.

Although the RCIC System is not classified with the HPCS as part of the Emergency Core Cooling System (ECCS), it does provide an automatic, redundant source of water in the single case of a control rod drop accident (Reference: FSAR, Response to NRC Question Q.031.015). Hence, the inability of the above-mentioned motor-operated valve to meet the required qualification standard could result in failure to meet the single failure criteria of the rod drop accident. Had this deficiency remained undetected or uncorrected, it could have caused an unsafe condition during plant operations.

CORRECTIVE ACTION TAKEN AND PLANNED:

WNP-2 is in the process of replacing the motor of the above defective motor operator with a qualified one through Limitorque. All work will be completed by August, 1981. An on-going qualification review program is in force to ensure that the rest of the DC motor operators of safety-related valves are qualified to Quality Class I.

