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 L.E. ROW

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MEMO

REPORT

OTHER

TO

USNRC

J.G. KEPPLER

DIR FOR REGION III, GLEN ELLYN, ILL.

ORIG.

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ACTION NECESSARY ☐CONCURRENCE ☐

DATE ANSWERED

NO ACTION NECESSARY ☐COMMENT ☐

BY

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DESCRIPTION (Must Be Unclassified)

RE: CDR--DEFICIENCY INVOLVING
 SERVAL TYPE SMC LIMITORQUE
 MOTOR OPERATORS FURNISHED FOR THE
 DAVIS-BESSE POWER STATION UNIT NO 1

REFERRED TO

DATE

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ROY/GOWER

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(CY SEYFRIT)

(CY IE FILES)

ENCLOSURES:

(CY RFB FILES)

(CY NRR: HELTEMES)

(CY NRR: MOORE)

(CY NRR: VASSALLO 2)

(CY STANDARDS DEVE.)

(CYPDR, LPDR, NSIC & TIC)

REMARKS

U. S. NUCLEAR REGULATORY COMMISSION

MAIL CONTROL FORM

FORM NRC 3265
(1-75)

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Docket No. 50-346

April 27, 1977

Serial No. 270

LOWELL E. ROE

Vice President
Facilities Development
(419) 259-5242

Mr. James G. Keppler
Regional Director, Region III
Directorate of Regulatory Operations
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

This Final Report is submitted in accordance with 10CFR Part 50.55(e) regarding the apparent deficiency involving several type SMB Limitorque motor operators furnished for the Davis-Besse Nuclear Power Station Unit No. 1. This was discussed by Mr. J. D. Lenardson, Quality Assurance Manager, with Mr. D. W. Hayes, NRC Region III Office of Inspection and Enforcement, on April 15, 1977.

Description of the Deficiency

The "Installation Tips" section on page 3 of the Limitorque Type SMB Instruction and Maintenance Manual SMBI-170 (BP-5M-9/71) requires that the stem nut be secured tightly by the locking nut and that the top thread of the lock nut be crimped or staked. In February, 1977, the Limitorque motor operators on two nuclear safety related valves were found running with the valve stem turning but the valve not opening. Investigation revealed that the lock nuts had fallen off and the stem nut was loose, thus not operating the valve. The top thread of the lock nuts had not been staked or crimped as required by the Limitorque Instruction and Maintenance Manual. Further investigation revealed that on 17 of 19 Limitorque operated valves inspected, the top thread of the lock nut had not been crimped or staked. These motor operators were furnished on equipment supplied by Velan, Powell, ITT Hammel-Dahl, and Contromatic, who failed to fully implement Limitorque manual requirements.

Corrective Action Taken

There are 232 Limitorque motor operators installed at Davis-Besse Unit No. 1. Of these, 144 are considered to be nuclear safety related. An inspection program was established and implemented in which all 232 Limitorque motor operators were inspected for staking. Those operators found not to be staked were staked by Toledo Edison maintenance personnel. Of the 144 nuclear safety related operators inspected, 65 required staking while 50 were installed on a type of valve in which staking is not applicable.