

DUKE POWER COMPANY
McGuire Nuclear Station
Units 1 and 2

POOR ORIGINAL

Report Number: SD 369-370/79-09

Report Date: October 12, 1979

Facility: McGuire Nuclear Station, Units 1 and 2

Description of Deficiency:

During a recent review of safety-related valves receiving Class 1E pressure it was discovered that 34 of these valves had commercial grade electric motor operators and therefore were not qualified for use in safety-related applications. Nineteen of these valves were in McGuire Unit 1 with the remaining valves in Unit 2. All of the affected valves are located outside containment in the Nuclear Service Water, Auxiliary Feedwater, and Component Cooling Systems.

The commercial grade valve operators were improperly procured due to deficient definition of the valve applications. This error was not discovered during the normal valve review process, and consequently all 34 valves were installed. All of the valve operators were manufactured by ROTORK Controls Limited. Table 1 identifies the ROTORK model numbers of the valve operators to be replaced.

Analysis of Safety Implications:

The utilization of valve operators which have not been qualified for their intended use does not provide adequate assurance of valve operability for the required postulated conditions. Valve malfunction could possibly preclude portions of the affected systems from performing their intended safety function under certain accident situations.

Corrective Action:

All 34 valve operators have been identified as nonconforming until they are replaced with properly qualified valve operators. Installation of these replacement operators will be complete prior to fuel loading. Table 2 identifies the ROTORK model numbers for the replacement valve operators.

In addition, supplemental administrative procedures have been implemented to better identify and control the application of Class 1E valve operators to valves whose operability must be assured under various accident conditions.

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Table 1

<u>Quantity</u>	<u>Non Qualified Operators</u>	
	<u>Model No.</u>	
11	7A	
15	11A	
8	16A	

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Table 2

<u>Quantity</u>	<u>Qualified Operators</u>	
	<u>Model No.</u>	
11	7NAI	
9	11NAI	
6	14NAI	
8	16NAI	

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