



ATOMIC POWER COMPANY •

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May 29, 1985
MN-85-99

GDW-85-152

Director of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. James R. Miller, Chief
Operating Reactors Branch No. 3
Division of Licensing

References: (a) License No. DPR-36 (Docket No. 50-309)

Subject: Seismic Qualification of Electrosch Switch Corporation, Series 20K
Switch with Key-Operated Mechanism

Gentlemen:

The Electrosch Switch Corporation, series 20K switch with a pistol-grip handle has been generically tested to the requirements of IEEE 344-1975 for uses in Class 1E applications. The seismic capabilities of the switch are determined by monitoring the switch contacts to determine that the operation of the switch is not impaired during the seismic test and that the switch will be operable following the test. Maine Yankee has documentation from Electrosch Switch Corporation confirming acceptable test results.

As discussed with NRC Region I representatives, Maine Yankee has been notified by Electrosch Switch Corporation that their seismic testing of the series 20K switch did not include the key-operated version. Maine Yankee uses the series 20K switch with a key-operated mechanism in safety-related applications.

A review of the switch design has been performed looking at both the pistol-grip handle and key-operated features. The internals of both switches are identical - only the operating mechanism is different. Our evaluation indicates that the key-operated mechanism does not introduce a new failure mechanism and it reduces the mass affected by seismic forces. We have concluded that the series 20K switch with a key-operated mechanism is at least as seismically rugged as the pistol handle version and is most likely more rugged.

To confirm our evaluation, we conducted a shaker table test of the series 20K switch with a key-operated mechanism on May 22, 1985. The test was successful.

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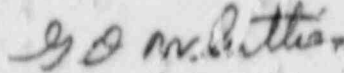
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Please contact me if you should have any questions in this matter.

Very truly yours,

MAINE YANKEE ATOMIC POWER COMPANY



G. J. Whittier, Manager
Nuclear Engineering & Licensing

GDW/bjp

cc: Dr. Thomas E. Murley
Mr. Cornelius F. Holden