

JAN 30 1978

Docket Nos. 50-10, 50-237, 50-249, 50-254,
50-265, 50-295, 50-304, 50-373, 50-374,
40-454, 50-455, 50-456, 50-457

Commonwealth Edison Company
ATTN: Mr. Byron Lee, Jr.
Vice President
P. O. Box 767
Chicago, IL 60690

Gentlemen:

Enclosed is IE Bulletin No. 78-02 which requires action by you with regard to your power reactor facilities with an operating license or a construction permit.

Should you have questions regarding this Bulletin or the actions required of you, please contact this office.

Sincerely,

James G. Keppler
Director

Enclosures:

1. IE Bulletin No. 78-02
2. List of IE Bulletins
Issued in 1978

cc w/encls:

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DATE →	1/30/78	1/30/78	<i>CS</i>		

January 30, 1978
IE Bulletin No. 78-02

TERMINAL BLOCK QUALIFICATION

Description of Circumstances:

On January 18, 1978, Connecticut Yankee Atomic Company performed a screening test intended to verify previous analyses of the environmental qualifications of unprotected terminal blocks used inside containment. The test was performed at the Franklin Institute Research Laboratories, Philadelphia, Pennsylvania.

The test specimen was a Marathon M-6012 terminal block. It was exposed to a steam environment which was designed to envelope the calculated LOCA environmental conditions in the Haddam Neck containment. The pressure selected for the test was 40 psig for a period of 24 hours.

The temperature profile consisted of a rise from an initial temperature of 100 degrees Fahrenheit to 275 degrees Fahrenheit within ten seconds, followed by a steady state operation at 275 degrees Fahrenheit for four hours. This was followed by a drop of temperature to 140 degrees Fahrenheit within one hour, followed by a repetition of the initial temperature rise to 275 degrees Fahrenheit (within ten seconds). The temperature then remained constant at 275 degrees Fahrenheit for the remaining 19 hours of the test period.

During the initial screening test, 525 volts, single phase, 60 Hertz, ac voltage was applied to two pairs of terminals on the test specimen. Inability of the terminals to hold the voltage was defined before the test as an appropriate failure criterion. The test was initiated on January 19, 1978. The terminal block functioned as intended during the first 5 hours of the test at which time one of the pairs of terminals failed the test.

The cause of failure is still under investigation. The failure occurred during an operator error resulting in a pressure and temperature excursion which is outside the envelope of the intended test. Because

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