

October 13, 1995



U.S. Nuclear Regulatory Commission
Washington, DC 20555

Attention: Document Control Desk

Subject: Braidwood Station Units 1 and 2
Byron Station Units 1 and 2
Dresden Station Units 2, and 3
LaSalle County Station Units 1 and 2
Quad Cities Station Units 1 and 2
Zion Station Units 1 and 2

Commonwealth Edison Company (ComEd) 60 day Response to NRC
Generic Letter, GL 95-07, "PRESSURE LOCKING AND THERMAL
BINDING OF SAFETY-RELATED POWER-OPERATED GATE
VALVES"

NRC Dockets 50-454 and 50-455
NRC Dockets 50-456 and 50-457
NRC Dockets 50-237 and 50-249
NRC Dockets 50-373 and 50-374
NRC Dockets 50-254 and 50-265
NRC Dockets 50-295 and 50-304

Reference: (1) NRC Generic Letter 95-07, "PRESSURE LOCKING AND THERMAL
BINDING OF SAFETY-RELATED POWER-OPERATED GATE
VALVES" dated August 17, 1995

This letter provides ComEd's 60 day response to GL 95-07 (Reference (1)). Prior to the issuance of GL 95-07 each of ComEd's nuclear stations had already implemented screening criteria for review of the Pressure Locking and Thermal Binding (PL/TB) issue for motor operated valves. This initial screening was conducted by station teams knowledgeable in system and valve design and operation. They considered the valve type, safety function, plant operating modes, and the process fluid conditions. Based on this initial screening, 79 valves were either modified or verified to contain pressure equalization devices. Additional actions are scheduled for the coming outages.

ComEd has performed pressure locking testing on gate valves. ComEd has also developed an algorithm for determining the force required to open flexible wedge gate valves under pressure locking conditions. The testing has validated the calculation method. ComEd is continuing to analyze this test data and will perform additional correlations between the algorithm and test results as valves become available to test. ComEd will be using this algorithm to determine the additional force required to open pressure bound valves.

1056/0

Within 90 days of receipt of GL 95-07, ComEd will review our screening and evaluation against the requirements of GL 95-07 and, if needed, include additional power operated gate valves which would be potentially susceptible to PL/TB when performing their required safety function during design basis accidents. Valves found to be potentially susceptible to PL/TB will be evaluated or modified using existing plant procedures to ensure compliance with the licensing basis of the plants.

Within 180 days of receipt of GL 95-07, ComEd will complete the evaluation of the operational configurations of safety-related power-operated gate valves and identify valves that are susceptible to PL/TB. ComEd will also complete any further analyses and take needed corrective actions as appropriate (or justify longer schedules) to ensure that the susceptible valves are capable of performing their required safety function during design basis accidents.

Within 180 days of receipt of GL 95-07, ComEd will report the status of the actions that ComEd has taken to address GL 95-07. This will include a list of valves reviewed for PL/TB, a list of valves found susceptible to PL/TB, and a list of the actions taken or a schedule of actions to be taken to mitigate the effects of PL/TB. Justification for valves which are found to be susceptible to PL/TB, but which are capable of performing their required safety function during design basis accidents, will also be available at the stations. For valves found to be susceptible to PL/TB, which have not had corrective actions by 180 days, ComEd will have a justification for our schedule available at the individual stations for review.

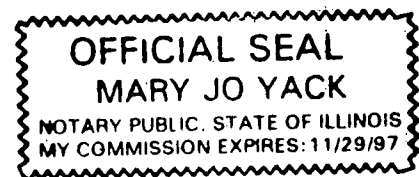
Please direct any questions concerning this response to this office.

Sincerely,



Peter L. Piet

Nuclear Licensing Administrator



cc: H. Miller, Regional Administrator-RIII
 J. Jacobson, Region III
 R. Capra, Director of Directorate III-2, NRR
 G. Dick, Byron Project Manager, NRR
 R. Assa, Braidwood Project Manager, NRR
 J. Stang, Dresden Project Manager, NRR
 R. Latta, LaSalle Project Manager, NRR
 R. Pulsifer, Quad Cities Project Manager, NRR
 C. Shiraki, Zion Project Manager, NRR
 S. Ray, Senior Resident Inspector (Braidwood)
 H. Peterson, Senior Resident Inspector (Byron)
 C. Vanderniet, Senior Resident Inspector (Dresden)
 P. Brochman, Senior Resident Inspector (LaSalle)
 C. Miller, Senior Resident Inspector (Quad Cities)
 R. Roton, Senior Resident Inspector (Zion)

Mary Jo Yack 107395