



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001  
April 2, 1996

DOCKET FILE  
50-237/247/254/265  
50-295/304/373/374  
50-454/455/456/  
50-457

Mr. D. L. Farrar  
Manager, Nuclear Regulatory Services  
Commonwealth Edison Company  
Executive Towers West III  
1400 Opus Place, Suite 500  
Downers Grove, IL 60515

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR GENERIC LETTER 95-07,  
"PRESSURE LOCKING AND THERMAL BINDING OF SAFETY-RELATED POWER-  
OPERATED GATE VALVES," RELATED TO BRAIDWOOD STATION, UNITS 1 AND 2;  
BYRON STATION, UNITS 1 AND 2; ZION STATION, UNITS 1 AND 2; QUAD  
CITIES STATION, UNITS 1 AND 2; DRESDEN STATION, UNITS 2 AND 3, AND  
LASALLE COUNTY STATION, UNITS 1 AND 2 (TAC NOS. M93434, M93435,  
M93441, M93442, M93458, M93459, M93477, M93478, M93509, M93510,  
M93541 AND M93542)

Dear Mr. Farrar:

On August 17, 1995, the staff issued Generic Letter (GL) 95-07, "Pressure Locking and Thermal Binding of Safety-Related Power-Operated Gate Valves," to request that licensees take actions to ensure that safety-related power-operated gate valves that are susceptible to pressure locking or thermal binding are capable of performing their safety function within the current licensing bases of the facility. By letter dated February 13, 1996, Commonwealth Edison Company (ComEd), submitted its 180-day response to GL 95-07 for each of its facilities. Although the staff has not completed its review, it determined that ComEd has developed a methodology to predict the thrust requirement for gate valve actuators to overcome pressure locked conditions and, based on its preliminary understanding, believe it to be a valuable tool. The staff also understands that ComEd has performed testing to validate this methodology and that it is relying on it to justify the design basis capability of certain safety-related power-operated gate valves to perform their safety function within the current licensing bases of the ComEd facilities.

As discussed during a phone call on March 8, 1996, the staff has determined that it requires additional information to complete its review of the program that ComEd developed to address the concerns discussed in GL 95-07. Therefore, submission is requested of the following additional information: (1) the thrust prediction methodology (including the method for predicting actuator output capability), (2) the test procedures (including information specific to each test valve sufficient to perform the pressure locking calculations), (3) the test results (including the method for interpreting diagnostic equipment data), (4) the information regarding the diagnostic equipment used during testing (including calibration methods and diagnostic

240011  
9604040224 960402  
PDR ADOCK 05000237  
P PDR

NRG FILE CENTER COPY

MA3  
F01  
1/0

D. L. Farrar

- 2 -

April 2, 1996

uncertainties), and (5) any limitations or conditions placed on the use of the methodology (i.e., valve size, type, temperature, pressure, etc.)

The Office of Nuclear Regulatory Research is sponsoring tests at the Idaho National Engineering Laboratory to study the effects of pressure locking and thermal binding on selected gate valves. When these test results are made publicly available, the information will be shared with interested licensees.

Upon completing a more thorough review of the ComEd submittal, the staff may request additional information and may also desire to meet with the cognizant members of the ComEd staff regarding its GL 95-07 program.

Sincerely,

Original signed by:

Clyde Y. Shiraki, Senior Project Manager  
Project Directorate III-2  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

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

cc: See next page.

DISTRIBUTION:

Docket File  
PDIII-2 r/f  
CShiraki  
CMoore  
OGC, 015-B18  
LMiller, RIII  
HRathbun  
GDick  
JStang

PUBLIC  
JRoe (JWR)  
BClayton, RIII  
RCapra  
ACRS, T2-E26  
P. Hiland, RIII  
RAssa  
RPulsifer  
DSkay

DOCUMENT NAME: ZI93531.RAI

To receive a copy of this document, indicate in the box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

OFFICE	LA: PDIII-2	PM: PDIII-2	D: PDIII-2				
NAME	C. Moore	C. Shiraki:avl	R. Capra				
DATE	04/2/96	04/2/96	04/2/96				

OFFICIAL RECORD

D. L. Farrar

cc:

Michael I. Miller, Esquire  
Sidley and Austin  
One First National Plaza  
Chicago, Illinois 60603

Regional Administrator, Region III  
U.S. Nuclear Regulatory Commission  
801 Warrenville Road  
Lisle, Illinois 60532-4351

Illinois Department of  
Nuclear Safety  
Office of Nuclear Facility Safety  
1035 Outer Park Drive  
Springfield, Illinois 62704

Document Control Desk-Licensing  
Commonwealth Edison Company  
1400 Opus Place, Suite 400  
Downers Grove, Illinois 60515

Mr. William P. Poirier, Director  
Westinghouse Electric Corporation  
Energy Systems Business Unit  
Post Office Box 355, Bay 236 West  
Pittsburgh, Pennsylvania 15230

Joseph Gallo  
Gallo & Ross  
1250 Eye St., N.W.  
Suite 302  
Washington, DC 20005

Howard A. Learner  
Environmental law and Policy  
Center of the Midwest  
203 North LaSalle Street  
Suite 1390  
Chicago, Illinois 60601

U.S. Nuclear Regulatory Commission  
Byron Resident Inspectors Office  
4448 North German Church Road  
Byron, Illinois 61010-9750

Ms. Lorraine Creek  
Rt. 1, Box 182  
Manteno, Illinois 60950

Commonwealth Edison Company

Chairman, Ogle County Board  
Post Office Box 357  
Oregon, Illinois 61061

Mrs. Phillip B. Johnson  
1907 Stratford Lane  
Rockford, Illinois 61107

George L. Edgar  
Morgan, Lewis and Bochiuss  
1800 M Street, N.W.  
Washington, DC 20036

Attorney General  
500 South Second Street  
Springfield, Illinois 62701

EIS Review Coordinator  
U.S. Environmental Protection Agency  
77 W. Jackson Blvd.  
Chicago, Illinois 60604-3590

Commonwealth Edison Company  
Byron Station Manager  
4450 North German Church Road  
Byron, Illinois 61010

Kenneth Graesser, Site Vice President  
Byron Station  
Commonwealth Edison Station  
4450 N. German Church Road  
Byron, Illinois 61010

U.S. Nuclear Regulatory Commission  
Braidwood Resident Inspectors Office  
Rural Route #1, Box 79  
Braceville, Illinois 60407

Mr. Ron Stephens  
Illinois Emergency Services  
and Disaster Agency  
110 East Adams Street  
Springfield, Illinois 62706

Chairman  
Will County Board of Supervisors  
Will County Board Courthouse  
Joliet, Illinois 60434

Commonwealth Edison Company  
Braidwood Station Manager  
Rt. 1, Box 84  
Braceville, Illinois 60407

Ms. Bridget Little Rorem  
Appleseed Coordinator  
117 North Linden Street  
Essex, Illinois 60935

Site Vice President  
Dresden Nuclear Power Station  
6500 North Dresden Road  
Morris, Illinois 60450-9765

Station Manager  
Dresden Nuclear Power Station  
6500 North Dresden Road  
Morris, Illinois 60450-9765

U.S. Nuclear Regulatory Commission  
Resident Inspectors Office  
Dresden Station  
6500 North Dresden Road  
Morris, Illinois 60450-9766

Richard J. Singer  
Manager - Nuclear  
MidAmerican Energy Company  
907 Walnut Street  
P.O. Box 657  
Des Moines, Iowa 50303

Brent E. Gale, Esq.  
Vice President - Law and  
MidAmerican Energy Company  
Regulatory Affairs  
One RiverCenter Place  
106 East Second Street  
P.O. Box 4350  
Davenport, Iowa 52808

Chairman  
Rock Island County Board  
of Supervisors  
1504 3rd Avenue  
Rock Island County Office Bldg.  
Rock Island, Illinois 61201

Chairman  
Grundy County Board  
Administration Building  
1320 Union Street  
Morris, Illinois 60450

Mr. L. William Pearce  
Station Manager  
Quad Cities Nuclear Power Station  
22710 206th Avenue North  
Cordova, Illinois 61242

U.S. Nuclear Regulatory Commission  
Quad Cities Resident Inspectors Office  
22712 206th Avenue North  
Cordova, Illinois 61242

Phillip P. Steptoe, Esquire  
Sidley and Austin  
One First National Plaza  
Chicago, Illinois 60603

Assistant Attorney General  
100 West Randolph Street  
Suite 12  
Chicago, Illinois 60601

U.S. Nuclear Regulatory Commission  
Resident Inspectors Office LaSalle Station  
2605 N. 21st Road  
Marseilles, Illinois 61341-9756

Chairman  
LaSalle County Board of Supervisors  
LaSalle County Courthouse  
Ottawa, Illinois 61350

Chairman  
Illinois Commerce Commission  
Leland Building  
527 East Capitol Avenue  
Springfield, Illinois 62706

LaSalle Station Manager  
LaSalle County Station  
Rural Route 1  
P.O. Box 220  
Marseilles, Illinois 61341

Robert Cushing  
Chief, Public Utilities Division  
Illinois Attorney General's Office  
100 West Randolph Street  
Chicago, Illinois 60601

Dr. Cecil Lue-Hing  
Director of Research and Development  
Metropolitan Sanitary District  
of Greater Chicago  
100 East Erie Street  
Chicago, Illinois 60611

Mayor of Zion  
Zion, Illinois 60099

U.S. Nuclear Regulatory Commission  
Zion Resident Inspectors Office  
105 Shiloh Blvd.  
Zion, Illinois 60099

Station Manager  
Zion Nuclear Power Station  
101 Shiloh Blvd.  
Zion, Illinois 60099-2797