

Docket File



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

March 14, 1991

Docket Nos. STN 50-45., STN 50-455
and STN 50-456, STN 50-457

Mr. Thomas J. Kovach
Nuclear Licensing Manager
Commonwealth Edison Company-Suite 300
CPUS West III
1400 OPUS Place
Downers Grove, Illinois 60515

Dear Mr. Kovach:

SUBJECT: SUPPLEMENTAL SAFETY EVALUATION OF BYRON STATION, UNITS NOS. 1 AND 2
AND BRAIDWOOD STATION, UNIT NOS. 1 AND 2; RESPONSE TO THE STATION
BLACKOUT RULE (TAC NOS. 68522, 68523, 68515 AND 68516)

The NRC staff's Safety Evaluation (SE) pertaining to the Commonwealth Edison Company's (CECo) initial responses to the Station Blackout (SBO) Rule, 10 CFR 50.63, was transmitted to you by letter dated August 6, 1990. The staff found your proposed method of coping with an SBO to be unacceptable, primarily because the proposed AAC source did not have sufficient excess capacity to qualify as an AAC source.

CECo responded to this concern and the NRC staff's other recommendations by letter dated November 2, 1990.

CECo re-evaluated the loss of offsite power (LOOP) loads and the SBO loads using equipment design requirements for the loads as opposed to overly conservative motor ratings. Also, actual motor efficiencies rather than assumed efficiencies were used for the larger motor loads. You stated that Table 8.3-5 of the Updated Final Safety Analysis Report (UFSAR) would be revised to reflect these changes and to correct some errors that were identified during the SBO review. Based on the load re-evaluation and your commitment to revise the UFSAR, the staff now finds that the proposed AAC power source qualifies as an excess capacity AAC source consistent with the SBO rule and associated guidance.

CECo's response to each of the staff's recommendations has been evaluated in the enclosed Supplemental Safety Evaluation (SSE) and found to be acceptable. The staff therefore concludes that your proposed method of coping with an SBO conforms to the SBO rule. However, CECo should maintain all documentation

DF01
11

Mr. Thomas J. Kovach

- 2 -

March 14, 1991

supporting the SBO submittals available for further inspection and assessment as may be undertaken by the NRC to audit conformance to the SBO rule. This closes TAC Nos. 68522, 68523, 68515 and 68516.

Sincerely,

Original Signed By:

Robert M. Pulsifer, Project Manager
Project Directorate III-2
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Enclosure:
Supplemental Safety Evaluation

cc w/enclosure:
See next page

DISTRIBUTION

Disc - et File
NRC & Local PDRs
PDIII-2 r/f
BBoger, 14A2
JZwolinski
CMoore
RPulsifer
AHSia
OGC
EJordan, MNBB 3701
AToalston, 7E4
ACRS (10)
Plant File
WShafer, RIII

DFC	: ER:PDIII-2	: PM:PDIII-2	: PM:PDIII-2	: D:PDIII-2	:
NAME	: CMOORE	: RPULSIFER:ta	: AHSIA	: RBARRETT	:
DATE	: 3/14/91	: 3/14/91	: 3/14/91	: 3/14/91	:

OFFICIAL RECORD COPY
Document Name: KOVACH 68522/23/25/16

Mr. Thomas J. Kovach
Commonwealth Edison Company

Byron/Braidwood Power Stations

cc:

Mr. Gabe Toth
Westinghouse Electric Corporation
Energy Systems Business Unit
Post Office Box 355, Bay 236 West
Pittsburgh, Pennsylvania 15230

Joseph Gallo, Esq.
Hopkins and Sutter
888 16th Street, N.W.
Suite 700
Washington, D.C. 20006

Regional Administrator
U. S. NRC, Region III
799 Roosevelt Road, Bldg. #4
Glen Ellyn, Illinois 60137

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

Mr. Edward R. Crass
Nuclear Safeguards and Licensing
Division
Sargent & Lundy Engineers
55 East Monroe Street
Chicago, Illinois 60603

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

Mr. Thomas W. Ortziger, Director
Illinois Emergency Services
and Disaster Agency
110 East Adams Street
Springfield, Illinois 62706

Robert Neumann
Office of Public Counsel
State of Illinois Center
100 W. Randolph
Suite 11-300
Chicago, Illinois 60601

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

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

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

Douglass Cassel, Esq.
17 East Monroe Street
Suite 212
Chicago, Illinois 60603

David C. Thomas, Esq.
77 S. Wacker Drive
Chicago, Illinois 60601

Michael Miller, Esq.
Sidley and Austin
One First National Plaza
Chicago, Illinois 60690

George L. Edgar
Newman & Holtzinger, P.C.
1615 L Street, N.W.
Washington, D.C. 20036

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

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

Commonwealth Edison Company
Braidwood Station Manager
Rt. 1, Box 34
Braceville, Illinois 60407