



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

December 18, 1995

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: CHANGE TO IMPLEMENTATION COMMITMENT - STATION BLACKOUT RULE -
QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2 (TAC NOS. M93593
AND M93594)

Dear Mr. Farrar:

By letter dated December 11, 1990, the staff transmitted our safety evaluation (SE) related to the Commonwealth Edison Company's (ComEd, the licensee) responses to the Station Blackout (SBO) Rule, 10 CFR 50.63, for the Quad Cities Nuclear Power Station, Units 1 and 2. The staff found the licensee's proposed method for dealing with the SBO rule to be acceptable, subject to the satisfactory resolution of several recommendations that were itemized in the staff's SE. The licensee responded specifically to the staff's SE by letters dated January 21, 1991 and February 15, 1991. In their responses, the licensee proposed to complete all station blackout modifications by December 31, 1995. By letter dated July 18, 1991, the staff issued a supplemental SE. In that supplement, the staff accepted the licensee's proposed SBO modification schedule.

The principal modifications to meet the requirements of the SBO rule were to install two Alternate AC (AAC) power sources and a safety grade electrical bus connection between Quad Cities, Unit 1 and 2. The modification schedule proposed by the licensee was based on two refueling outages taking place at both Quad Cities plants prior to December 31, 1995.

By letters dated September 1, 1995, and November 30, 1995, ComEd informed the NRC staff of unavoidable delays in the completion of the SBO-AAC modifications for the Quad Cities Station. The licensee identified that the remaining modifications and testing will require the work to be completed during the next Unit 1 refueling outage in 1996.

In a letter dated November 30, 1995, the licensee stated that the Unit 2 SBO diesel generator (DG) will be operable and controllable within 1 hour from the main control room by December 31, 1995. This DG will be capable of powering one division of normal safe shutdown systems and equipment for Units 1 and 2 required for a station blackout and attaining safe shutdown from the control room.

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D. L. Farrar
Commonwealth Edison Company

Quad Cities Nuclear Power Station
Unit Nos. 1 and 2

cc:

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

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

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

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

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

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

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
Regulatory Affairs
MidAmerican Energy Company
One RiverCenter Place
.06 East Second Street
P.O. Box 4350
Davenport, Iowa 52808

Some DG auxiliaries modification and acceptance testing of the Unit 1 AAC-DG systems remains to be completed. Additional actions to be completed during Q1R14 include installation of the 4 kV ties from the AAC-DG to the existing station safety bus, modification and upgrade of safety-related breakers, and post-modification/operability testing of the AAC-DG system. This physical work requires consecutive and extended outages of both 4 kV safety buses that can only be coordinated and performed during a refueling outage with the reactor defueled. The work was scheduled in 1991 to be completed in the Q1R14 refueling outage. This scheduled refueling outage (Q1R14) had been delayed due to the extension of Q1R13 refueling outage and ComEds decision to shutdown Unit 1 in October 1994 until January 1995 to upgrade Operation's standards and to improve material condition. Also on September 29, 1995, Unit 1 experienced a muriatic acid event near the AAC-DG which damaged electronic equipment. These items have caused the licensee to reschedule Q1R14 from the fall of 1995 to now start in February 1996 and to have the Unit 1 AAC-DG operable and capable to be controlled within 1 hour from the main control room by June 30, 1996.

On December 31, 1995, Unit 2, will be equipped with an on-site SBO-AAC source. Cross-tie capability between Units 1 and 2, that had previously been installed to meet the SBO rule, has increased operational flexibility. This flexibility coupled with the size of the new single AAC power source (approximately twice the capacity of a single existing Technical Specification required DG), is sufficient to supply safe shutdown loads required for a station blackout in both Units 1 and 2. These enhancements will provide additional safety margin for the Station in the event of a LOOP.

Based on information provided by ComEd, the staff has determined the revised schedule to complete the implementation of the SBO modifications at Quad Cities, Unit 2, by December 31, 1995 and Unit 1 by June 30, 1996, is acceptable. It is requested that ComEd keep the staff informed of the status of the modifications and provide written confirmation of the SBO completions within 30 days following restart of Unit 1 from Q1R14 or July 30, 1996, whichever is later and by February 1, 1996, for Unit 2.

Sincerely,
 Original signed by:
 Robert M. Pulsifer, Project Manager
 Project Directorate III-2
 Division of Reactor Projects - III/IV
 Office of Nuclear Reactor Regulation

Docket Nos. 50-254, 50-265

cc: See next page

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*see previous concurrence

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