

June 17, 1998

Mr. Oliver D. Kingsley, President
Nuclear Generation Group
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 500
Downers Grove, IL 60515

SUBJECT: TECHNICAL SPECIFICATIONS BASES CHANGE - QUAD CITIES NUCLEAR
POWER STATION, UNITS 1 AND 2 (TAC NOS. MA1647 AND MA1648)

Dear Mr. Kingsley:

By letter dated April 29, 1998, Commonwealth Edison Company (ComEd) submitted a change to Facility Operating License Nos. DPR-29 and DPR-30, Appendix A, Technical Specifications (TS) Bases Section 3/4.5.C, "Suppression Chamber." Section 3/4.5.C requires in MODE(s) 4 and 5 that the water level in the suppression chamber can be less than 7 foot above the bottom of the suppression chamber provided that among other limitations the condensate storage tank (CST) contains $\geq 140,000$ available gallons of water. The Core Spray and Residual Heat Removal system suction standpipe was lowered in the CST to ensure this quantity of water can be available. ComEd performed an evaluation pursuant to 10 CFR 50.59. The staff has no objection to this Bases change. Enclosed, please find the revised TS page B 3/4.5-3.

Sincerely,

ORIG. 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

Enclosure: Page 3/4.5-3

cc w/encl: See next page

NRC FILE CENTER COPY

Distribution:

Docket File	PUBLIC	PDIII-2 r/f	E. Adensam, EGA1
S. Richards	C. Moore	R. Pulsifer	OGC, O15B18
ACRS, T2E26	MRing, RIII	W. Beckner	G. Hill (4) L. Marsh

DOCUMENT NAME: G:\CMNTSP\QUAD\QC1647.LTR

SEE PREVIOUS CONCURRENCE*

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

OFFICE	PM:PDIII-2	LA:PDIII-2	SPLB	D:PDIII-2	SRXB	N
NAME	RPULSIFER	CMOORE	LMARSH*	SRICHARDS	TCOLLINS*	
DATE	06/11/98	06/11/98	06/09/98	06/17/98	06/10/98	

OFFICIAL RECORD COPY

9806240181 980617
PDR ADDCK 05000254
P PDR

Mr. Oliver D. Kingsley, President
Nuclear Generation Group
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 500
Downers Grove, IL 60515

SUBJECT: TECHNICAL SPECIFICATIONS BASES CHANGE - QUAD CITIES NUCLEAR
POWER STATION, UNITS 1 AND 2 (TAC NOS. MA1647 AND MA1648)

Dear Mr. Kingsley:

By letter dated April 29, 1998, Commonwealth Edison Company (ComEd) submitted a change to Facility Operating License Nos. DPR-29 and DPR-30, Appendix A, Technical Specifications (TS) Bases Section 3/4.5.C, "Suppression Chamber." Section 3/4.5.C requires in MODE(s) 4 and 5 that the water level in the suppression chamber can be less than 7 foot above the bottom of the suppression chamber provided that among other limitations the condensate storage tank (CST) contain $\geq 140,000$ available gallons of water. The Core Spray and Residual Heat Removal system suction standpipe was lowered in the CST to ensure this quantity of water can be available. ComEd performed an evaluation pursuant to 10 CFR 50.59. The staff has no objection to this Bases change. Enclosed, please find the revised TS page B 3/4.5-3.

Sincerely,

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

Enclosure: Page 3/4.5-3

cc w/encl: See next page

Distribution:

Docket File
S. Richards
ACRS, T2E26

PUBLIC
C. Moore
MRing, RIII

PDIII-2 r/f
R. Pulsifer
W. Beckner

E. Adensam, EGA1
OGC, O15B18
G. Hill (4) L. Marsh.

DOCUMENT NAME: G:\CMNTSP\QUAD\QC1647.LTR

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

OFFICE	PM:PDIII-2	LA:PDIII-2	SPLB	D:PDIII-2	SRxB	N
NAME	RPULSIFER.sp	CMOORE	LMARSH	SRICHARDS	TCollins	tes
DATE	06/9/98	05/ /98	06/9/98	05/ /98	06/10/98	

OFFICIAL RECORD COPY

#91



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

June 17, 1998

Mr. Oliver D. Kingsley, President
Nuclear Generation Group
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 500
Downers Grove, IL 60515

SUBJECT: TECHNICAL SPECIFICATIONS BASES CHANGE - QUAD CITIES NUCLEAR
POWER STATION, UNITS 1 AND 2 (TAC NOS. MA1647 AND MA1648)

Dear Mr. Kingsley:

By letter dated April 29, 1998, Commonwealth Edison Company (ComEd) submitted a change to Facility Operating License Nos. DPR-29 and DPR-30, Appendix A, Technical Specifications (TS) Bases Section 3/4.5.C, "Suppression Chamber." Section 3/4.5.C requires in MODE(s) 4 and 5 that the water level in the suppression chamber can be less than 7 foot above the bottom of the suppression chamber provided that among other limitations the condensate storage tank (CST) contains $\geq 140,000$ available gallons of water. The Core Spray and Residual Heat Removal system suction standpipe was lowered in the CST to ensure this quantity of water can be available. ComEd performed an evaluation pursuant to 10 CFR 50.59. The staff has no objection to this Bases change. Enclosed, please find the revised TS page B 3/4.5-3.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert M. Pulsifer", is written over a horizontal line.

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

Enclosure: Page 3/4.5-3

cc w/encl: See next page

O. Kingsley
Commonwealth Edison Company

cc:

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

Commonwealth Edison Company
Quad Cities Station Manager
22710 206th Avenue N.
Cordova, Illinois 61242-9740

U.S. Nuclear Regulatory Commission
Quad Cities Resident Inspectors Office
22712 206th Avenue N.
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

William D. Leach
Manager - Nuclear
MidAmerican Energy Company
907 Walnut Street
P.O. Box 657
Des Moines, Iowa 50303

Vice President - Law and
Regulatory Affairs
MidAmerican Energy Company
One River Center Place
106 E. Second Street
P.O. Box 4350
Davenport, Iowa 52808

Quad Cities Nuclear Power Station -
Units 1 and 2

Commonwealth Edison Company
Site Vice President - Quad Cities
22710 206th Avenue N.
Cordova, Illinois 61242-9740

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

Mr. David Helwig
Senior Vice President
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 900
Downers Grove, IL 60515

Mr. Gene H. Stanley
PWR's Vice President
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 900
Downers Grove, IL 60515

Mr. Steve Perry
BWR's Vice President
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 900
Downers Grove, IL 60515

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

Ms. Irene Johnson, Licensing Director
Nuclear Regulatory Services
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 500
Downers Grove, IL 60515

O. Kingsley
Commonwealth Edison Company

- 2 -

Quad Cities Nuclear Power Plant
Units 1 and 2

Commonwealth Edison Company
Reg. Assurance Supervisor - Quad Cities
22710 206th Avenue N.
Cordova, Illinois 61242-9740

Mr. Michael J. Wallace
Senior Vice President
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 900
Downers Grove, IL 60515

BASES3/4.5.C Suppression Chamber

The suppression chamber is required to be OPERABLE as part of the ECCS to ensure that a sufficient supply of water is available to the HPCI and CS systems and the LPCI subsystem in the event of a LOCA. This limit on suppression chamber minimum water volume ensures that sufficient water is available to permit recirculation cooling flow to the core. The OPERABILITY of the suppression chamber in OPERATIONAL MODE(s) 1, 2 or 3 is also required by Specification 3.7.K.

Repair work might require making the suppression chamber inoperable. This specification will permit those repairs to be made and concurrently provide assurance that the irradiated fuel has an adequate cooling water supply when the suppression chamber must be made inoperable, including draining, in OPERATIONAL MODE(s) 4 or 5.

In OPERATIONAL MODE(s) 4 and 5 the suppression chamber minimum required water volume is reduced because the reactor coolant is maintained at or below 212°F. Since pressure suppression is not required below 212°F, the minimum water volume is based on net positive suction head (NPSH), recirculation volume and vortex prevention plus a safety margin for conservatism. With the suppression chamber water level less than the required limit, all ECCS subsystems are inoperable unless they are aligned to an OPERABLE condensate storage tank. When the suppression chamber level is less than 7 feet, the CS system or the LPCI subsystem is considered OPERABLE only if it can take suction from the condensate storage tank, and the condensate storage tank water level is sufficient to provide the required NPSH for the CS or LPCI pumps. Therefore, a verification that either the suppression chamber water level is greater than or equal to 7 feet or that CS or LPCI is aligned to take suction from the condensate storage tank and the condensate storage tank contains greater than or equal to 140,000 gallons of make-up water, available to the reactor pressure vessel.

3/4.5.D Reactor Core Isolation Cooling

The Reactor Core Isolation Cooling (RCIC) system is provided to supply continuous makeup water to the reactor core when the feedwater system is isolated from the turbine and when the feedwater system is not available. Under these conditions, the pumping capacity of the RCIC system is sufficient to maintain the water level above the core without any other water system in operation. If the water level in the reactor vessel decreases to the RCIC initiation level, the system automatically starts. The system may also be manually initiated at any time. The RCIC system is conservatively required to be OPERABLE whenever reactor pressure exceeds 150 psig even though the LPCI mode of the residual heat removal (RHR) system provides adequate core cooling up to 350 psig.

The RCIC system specifications are applicable during OPERATIONAL MODE(s) 1, 2 and 3 when reactor vessel pressure exceeds 150 psig because RCIC is the primary non-ECCS source of core cooling when the reactor is pressurized.