

December 21, 2001

Mr. Oliver D. Kingsley, President
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2 - ISSUANCE OF AMENDMENTS FOR EXTENDED POWER UPRATE (TAC NOS. MB0842 AND MB0843)

Dear Mr. Kingsley:

The U.S. Nuclear Regulatory Commission (Commission) has issued the enclosed Amendment No. 202 to Facility Operating License No. DPR-29 and Amendment No. 198 to Facility Operating License No. DPR-30 for the Quad Cities Nuclear Power Station, Units 1 and 2, respectively. The amendments are in response to your application dated December 27, 2000, as supplemented by letters dated February 12, March 20, April 6 and 13, May 3, 18, and 29, June 5, 7, and 15, July 6 and 23, August 7, 8, 9, 13 (two letters), 14 (two letters), 29, and 31 (two letters), September 5, 19, 25, and 27 (two letters), October 17, November 2 (two letters), 16, and 30, and December 10 and 17, 2001.

The original application was submitted by Commonwealth Edison Company (ComEd), the former licensee. ComEd subsequently transferred the licenses to Exelon Generation Company, LLC (EGC, the licensee). By letter dated February 7, 2001, EGC informed the Nuclear Regulatory Commission (NRC) that it assumed responsibility for all pending NRC actions that were requested by ComEd.

The amendments allow an increase in the maximum authorized operating power level from 2511 megawatts thermal (MWt) to 2957 MWt, a power increase of approximately 17.8 percent. These amendments include revisions to the Operating Licenses and Technical Specifications (TS) that are necessary to implement this increase in licensed power level.

As requested by your amendment application dated February 22, 2001, we reviewed the reactor vessel water level - low TS changes separately from the extended power uprate. The reactor vessel water level - low TS changes were issued by letter dated December 18, 2001.

O. Kingsley

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A copy of the related Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

/RA/

Stewart N. Bailey, Project Manager, Section 2
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-254 and 50-265

Enclosures: 1. Amendment No. 202 to DPR-29
2. Amendment No. 198 to DPR-30
3. Safety Evaluation
4. Notice of Issuance

cc w/encls: See next page

A copy of the related Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

/RA/

Stewart N. Bailey, Project Manager, Section 2
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-254 and 50-265

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cc w/encls: See next page

DISTRIBUTION

PUBLIC	AMendiola	OGC	RArchitzel	GHubbard	G Hill (4)
PD3-2 r/f	LRossbach	ACRS	EAndruszkiewicz	BThomas	RBarrett
SCollins	SBailey	EKendrick	DHarrison	RCaruso	TQuay
BSheron	MShuaibi	LLois	SLaVie	CHolden	WBeckner
JZwolinski	CRosenberg	HGarg	JWigginton	EMarinos	M Ring, R-III
LMarsh	THarris	APal	REckenrode	KManoly	
SBajwa		CWu	RPettis	KWichman	
				KGibson	

ADAMS Accession No. ML013620116 (Amendment Package)

ADAMS Accession No. ML013530380 (Cover letter, amendment, and License)

ADAMS Accession No. ML013600420 (TS Pages)

ADAMS Accession No. ML013540222 (Safety Evaluation)

ADAMS Accession No. ML013530490 (Notice of Issuance)

*Previously Concurred

OFFICE	PM:LPD3-2	PM:LPD3-2	LA:LPD3-2	TECH ED*	OGC*	SC:LPD3-2
NAME	SBailey	LRossbach	CRosenberg	PKleene	APHodgdon	AMendiola
DATE	12/20/01	12/ /01	12/20/01	11/28/01	12/18/01	12/20/01

OFFICE	SRXB/BWR	SPSB/risk	PDIII/D	DLPM/D	NRR/ADPT
NAME	RCaruso	RBarrett	SBajwa <i>AJM for</i>	JZwolinski <i>LBMarsh for</i>	BSheron
DATE	12/20/01	12/20/01	12/20/01	12/21/01	12/21/01

*The following technical branches provided safety evaluation input by memos dated**

OFFICE	SPLB	EEIB/elec	EEIB/I&C	EMCB	SPSB/lic.	SRXB/PWR
NAME	GHubbard	CHolden	EMarinos	KWichman	FMReinhart	FAkstulewicz
DATE*	09/07/01 & 12/19/01	08/08/01	08/08/01 & 9/13/01	06/29/01	09/12/01	06/29/01

OFFICE	EMEB	IOLB	IOLB	IEHB
NAME	KManoly	KGibson	DTrimble	TQuay
DATE*	09/11/01	08/29/01	08/23/01	08/16/01

OFFICIAL RECORD COPY

O. Kingsley
Exelon Generation Company, LLC

Quad Cities Nuclear Power Station
Units 1 and 2

cc:

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O. Kingsley
Exelon Generation Company, LLC

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Units 1 and 2

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EXELON GENERATION COMPANY, LLC

AND

MIDAMERICAN ENERGY COMPANY

DOCKET NO. 50-254

QUAD CITIES NUCLEAR POWER STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 202
License No. DPR-29

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Exelon Generation Company, LLC (the licensee) dated December 27, 2000, as supplemented by letters dated February 12, March 20, April 6 and 13, May 3, 18, and 29, June 5, 7, and 15, July 6 and 23, August 7, 8, 9, 13 (two letters), 14 (two letters), 29, and 31 (two letters), September 5, 19, 25, and 27 (two letters), October 17, November 2 (two letters), 16, and 30, and December 10 and 17, 2001, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B. of Facility Operating License No. DPR-29 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 202, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

In addition, the license is amended to revise paragraph 3.A. of Facility Operating License DPR-29 to reflect the new authorized reactor core power level of 2957 megawatts thermal.

In addition, the license is amended to add paragraph 3.V. to Facility Operating License DPR-29 as follows:

- V. The license is amended to authorize changing the UFSAR to allow credit for containment overpressure as detailed below, to assure adequate Net Positive Suction Head is available for low pressure Emergency Core Cooling System pumps following a design-basis accident.

From (sec)	To (sec)	Credit (psig)
Accident start	290	8.0
290	5,000	4.8
5,000	44,500	6.7
44,500	52,500	6.0
52,500	60,500	5.5
60,500	75,000	4.7
75,000	95,000	3.8
95,000	115,000	3.0
115,000	155,000	2.3
155,000	Accident end	1.8

3. This license amendment is effective as of the date of its issuance and shall be implemented prior to reaching Startup (i.e., Mode 2) following refueling outage 17, scheduled for completion in November 2002.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

Brian W. Sheron, Acting Director
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Operating License
and Technical Specifications

Date of Issuance: December 21, 2001

EXELON GENERATION COMPANY, LLC

AND

MIDAMERICAN ENERGY COMPANY

DOCKET NO. 50-265

QUAD CITIES NUCLEAR POWER STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 198
License No. DPR-30

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Exelon Generation Company, LLC (the licensee) dated December 27, 2000, as supplemented by letters dated February 12, March 20, April 6 and 13, May 3, 18, and 29, June 5, 7, and 15, July 6 and 23, August 7, 8, 9, 13 (two letters), 14 (two letters), 29, and 31 (two letters), September 5, 19, 25, and 27 (two letters), October 17, November 2 (two letters), 16, and 30, and December 10 and 17, 2001, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B. of Facility Operating License No. DPR-30 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 198, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

In addition, the license is amended to revise paragraph 3.A. of Facility Operating License DPR-30 to reflect the new authorized reactor core power level of 2957 megawatts thermal.

In addition, the license is amended to add paragraph 3.U. to Facility Operating License DPR-30 as follows:

- U. The license is amended to authorize changing the UFSAR to allow credit for containment overpressure as detailed below, to assure adequate Net Positive Suction Head is available for low pressure Emergency Core Cooling System pumps following a design-basis accident.

From (sec)	To (sec)	Credit (psig)
Accident start	290	8.0
290	5,000	4.8
5,000	44,500	6.7
44,500	52,500	6.0
52,500	60,500	5.5
60,500	75,000	4.7
75,000	95,000	3.8
95,000	115,000	3.0
115,000	155,000	2.3
155,000	Accident end	1.8

3. This license amendment is effective as of the date of its issuance and shall be implemented prior to reaching Startup (i.e., Mode 2) following refueling outage 16, scheduled for completion in February 2002.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

Brian W. Sheron, Acting Director
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Operating License
and Technical Specifications

Date of Issuance: December 21, 2001

ATTACHMENT TO LICENSE AMENDMENT NOS. 202 AND 198

FACILITY OPERATING LICENSE NOS. DPR-29 AND DPR-30

DOCKET NOS. 50-254 AND 50-265

1. Replace page 4 and add new page 7a to Facility Operating License No. DPR-29.
2. Replace page 4 and add new page 7a to Facility Operating License No. DPR-30.
3. Replace the following pages of the Appendix "A" Technical Specifications with the attached pages. The revised pages are identified by amendment number and contain marginal lines indicating the area of change.

Remove Pages

i
1.1-3
1.1-4
1.1-5
3.2.4-1
3.2.4-2
3.3.1.1-2
3.3.1.1-3
3.3.1.1-5
3.3.1.1-7
3.3.1.1-8
3.3.1.1-9
3.3.6.1-5
3.3.7.1-4
5.5-11
5.6-3

Insert Pages

i
1.1-3
1.1-4
1.1-5
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3.3.1.1-2
3.3.1.1-3
3.3.1.1-5
3.3.1.1-7
3.3.1.1-8
3.3.1.1-9
3.3.6.1-5
3.3.7.1-4
5.5-11
5.6-3

3. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

A. Maximum Power Level

EGC is authorized to operate Quad Cities Unit No. 1 at power levels not in excess of 2957 megawatts (thermal).

B. Technical Specifications

The Technical Specifications contained in Appendices A and B as revised through Amendment No. _____ are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

- C. The licensee shall maintain the commitments made in response to the March 14, 1983, NUREG-0737 Order, subject to the following provision:

The licensee may make changes to commitments made in response to the March 14, 1983, NUREG-0737 Order without prior approval of the Commission as long as the change would be permitted without NRC approval, pursuant to the requirements of 10 CFR 50.59. Consistent with this regulation, if the change results in an Unreviewed Safety Question, a license amendment shall be submitted to the NRC staff for review and approval prior to implementation of the change.

D. Equalizer Valve Restriction

Three of the four valves in the equalizer piping between the recirculation loops shall be closed at all times during reactor operation with one bypass valve open to allow for thermal expansion of water.

- E. The licensee shall fully implement and maintain in effect all provisions of the Commission approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions of 10 CFR 73.55 (51 FR 27817 and 27822), and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). These plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Quad Cities Nuclear Power Station Security Plan," with revisions submitted through September 17, 1992; "Quad Cities Nuclear

V. The license is amended to authorize changing the UFSAR to allow credit for containment overpressure as detailed below, to assure adequate Net Positive Suction Head is available for low pressure Emergency Core Cooling System pumps following a design-basis accident.

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Accident start	290	8.0	
290	5,000	4.8	
5,000	44,500	6.7	
44,500	52,500	6.0	
52,500	60,500	5.5	
60,500	75,000	4.7	
75,000	95,000	3.8	
95,000	115,000	3.0	
115,000	155,000	2.3	
155,000	Accident end	1.8	

3. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

A. Maximum Power Level

EGC is authorized to operate Quad Cities Unit No. 2 at power levels not in excess of 2957 megawatts (thermal).

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. _____ are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

- C. The licensee shall maintain the commitments made in response to the March 14, 1983, NUREG-0737 Order, subject to the following provision:

The licensee may make changes to commitments made in response to the March 14, 1983, NUREG-0737 Order without prior approval of the Commission as long as the change would be permitted without NRC approval, pursuant to the requirements of 10 CFR 50.59. Consistent with this regulation, if the change results in an Unreviewed Safety Question, a license amendment shall be submitted to the NRC staff for review and approval prior to implementation of the change.

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Three of the four valves in the equalizer piping between the recirculation loops shall be closed at all times during reactor operation with one bypass valve open to allow for thermal expansion of water.

- E. The licensee shall fully implement and maintain in effect all provisions of the Commission approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions of 10 CFR 73.55 (51 FR 27817 and 27822), and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). These plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Quad Cities Nuclear Power Station Security Plan," with revisions submitted through September 17, 1992; "Quad Cities Nuclear

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75,000	95,000	3.8	
95,000	115,000	3.0	
115,000	155,000	2.3	
155,000	Accident end	1.8	