

DEC 14 1972

Docket Nos. 50-254 and 50-265

Commonwealth Edison Company
ATTN: Mr. Byron Lee, Jr.
Assistant to the President
P. O. Box 767
Chicago, Illinois 60690

Gentlemen:

In response to your application dated August 30, 1968, as supplemented, enclosed are Amendments 5 and 3 to Facility Operating Licenses Nos. DPR-29 and DPR-30, respectively. These amendments authorize operation of the Quad-Cities Nuclear Power Station Units 1 and 2 each continuously at steady state power levels up to 2511 MWt (full-power).

Testing at 100% power in accordance with the startup test program shall be performed prior to commencing operation at 100% rated power.

Because of the significant number of changes required to be made to the Technical Specifications for full-power operation, including the non-radiological specifications, the Technical Specifications are being reissued in their entirety (with the amendments) as Change No. 4.

A copy of a notice regarding the issuance of these amendments that is being filed with the Office of the Federal Register for publication also is enclosed for your information.

Sincerely,

151

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Enclosures:

- 1. Amendment No. 5 to License No. DPR-29
- 2. Amendment No. 3 to License No. DPR-30
- 3. Federal Register Notice

OFFICE	cc w/enclosures: See next page				
SURNAME ▶					
DATE ▶					

cc w/enclosures:

Mr. Charles Whitmore
President and Chairman
Iowa-Illinois Gas and Electric Company
206 East Second Avenue
Davenport, Iowa 52801

John W. Howe, Esquire
Isham, Lincoln & Beale
Counselors at Law
One First National Plaza, 42nd Floor
Chicago, Illinois 60670

Moline Public Library
504 - 17th Street
Moline, Illinois 61265

Mr. Leroy Stratton
Bureau of Radiological Health
Illinois Department of Public Health
Springfield, Illinois 62706
(also w/copy of CEC's filing dated 11-6-72
re: Technical Specifications)

Honorable Robert D. Ray
Governor of Iowa
Des Moines, Iowa 50319
(also w/copy of CEC's filing dated 11-6-72
re: Technical Specifications)

Arnold M. Reeve, M. D.
Commissioner of Public Health
State Department of Health
Robert Luca Building
Des Moines, Iowa 50319

Mr. Jerry Addy, Commissioner
Bureau of Labor
Office and Laboratory Building
East 7th and Court Avenue
Des Moines, Iowa 50319

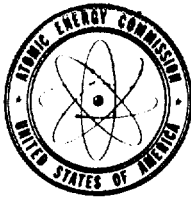
Mr. Robert W. Watts
Rock Island County Board of Supervisors
Rock Island County Courthouse
Rock Island, Illinois 61201

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- A. Giambusso, L:RP
- D. Skovholt, L:OR
- ACRS (16 cys)
- RO (3 cys)
- MKarman, OGC
- J. Saltzman, L:OAI
- F. L. Ingram, OIS
- H. I. Mueller, GMR/H
- R. L. Leith, OC (FRN)
- W. O. Miller, DRA
- R. Tedesco, L:CS
- C. Lainas, L:CSB
- C. Long, L:OLB L;APCB
- D. L. Ziemann, L:OR #2
- T. J. Carter, L:OR
- C. Hebron, DRA (fl and a)
- N. Dube, OPS
- M. Jinks DRA (4 cys)
- B. Scharf, DRA (15 cys)
- J. I. Riesland, L:OR #2
- R. M. Diggs, L:OR #2

amendments only telecopied
to site 12/15 and
to RO Region III
12/19.

OFFICE ▶	L:OR	L:OR	L:EP	OGC	L:OR	L:RP
	RMD	DL		MK		AG
SURNAME ▶	JIRiesland	DLZiemann	M Brotenhus	MKarman	DJSkovholt	AGiambusso
DATE ▶	12/4/72	12/4/72	12/5/72	12/13/72	12/13/72	12/21/72



UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

DOCKET NO. 50-254

COMMONWEALTH EDISON COMPANY

AND

IOWA-ILLINOIS GAS AND ELECTRIC COMPANY

FACILITY OPERATING LICENSE

Amendment No. 5
License No. DPR-29

The Atomic Energy Commission (the Commission) has found that:

- a. The application, as amended, complies with the requirements of the Atomic Energy Act of 1954, as amended (the Act), and the regulations of the Commission set forth in 10 CFR Chapter I;
- b. Construction of the Quad-Cities Nuclear Power Station Unit 1 (the facility) has been substantially completed in conformity with Provisional Construction Permit No. CPPR-23 and the application, as amended, the provisions of the Act, and the rules and regulations of the Commission set forth in 10 CFR Chapter I;
- c. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
- d. There is reasonable assurance (i) that the activities authorized by this operating license, as amended, can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
- e. The Commonwealth Edison Company and the Iowa-Illinois Gas and Electric Company are technically and financially qualified to engage in the activities authorized by this operating license, as amended, in accordance with the rules and regulations of the Commission;

- f. The Commonwealth Edison Company and the Iowa-Illinois Gas and Electric Company have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements";
- g. The issuance of this amended license will not be inimical to the common defense and security or to the health and safety of the public, and
- h. In accordance with the requirements of Appendix D of 10 CFR Part 50, Facility Operating License No. DPR-29 should be amended to authorized full-power operation subject to the conditions for protection of the environment referred to in paragraph 8 of the Summary and Conclusions section of the Final Environmental Statement dated September 1972 and set forth in the Technical Specifications incorporated herein.

Facility Operating License No. DPR-29, as amended, issued to Commonwealth Edison Company (Commonwealth Edison) and Iowa-Illinois Gas and Electric Company (Iowa-Illinois) is hereby amended in its entirety to read as follows:

1. This license applies to the Quad-Cities Nuclear Power Station Unit 1, a single cycle, boiling, light-water reactor, and electric generating equipment (the facility) which is jointly owned by Commonwealth Edison and Iowa-Illinois. The facility is part of the Quad-Cities Nuclear Power Station located in Rock Island County, Illinois, and is described in the application for construction permit and facility license dated May 31, 1966, and subsequent amendments thereto, including the application amendment dated August 30, 1968, as amended, for the full-power license and the Environmental Report dated November 12, 1970, as supplemented November 1, 1971, and thereafter.
2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Commonwealth Edison and Iowa-Illinois, pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities", to own the facility, as their interests appear in the application, and hereby licenses Commonwealth Edison, acting for itself and as agent for Iowa-Illinois:

- A. Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities", to possess, use, and operate the facility as a utilization facility at the location designated in the application, in accordance with the procedures and limitations described in the application and in this license;
- B. Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material", to receive, possess, and use at any one time up to 3000 kilograms of contained uranium 235 in connection with operation of the facility;
- C. Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Licensing of Byproduct Material", to receive, possess, and use in connection with operation of the facility:
 - (1) any byproduct material with Atomic Numbers between 3 and 83, inclusive, as contamination on fuel bundles, tools and equipment, laboratory samples and instrument calibration sources, in any form not to exceed 500 millicuries total,
 - (2) three sealed sources of five curies each of cesium 137,
 - (3) three sealed sources of five microcuries each of cesium 137,
 - (4) ten sealed sources of strontium 90, each source not to exceed 0.3 millicurie,
 - (5) one millicurie each of cobalt 60 and cesium 137 in any form,
 - (6) six curies of americium 241, as a sealed source,
 - (7) twenty-eight sealed sources of 1530 curies each of antimony 124,
 - (8) twenty-five sealed sources of strontium 90, with no source to exceed 1.2 microcuries,
 - (9) two sealed sources of 350 microcuries each of cobalt 60, and
 - (10) one curie of sodium 24 in any form for performance of testing on the steam turbines;

- D. Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not to separate, such byproduct and special nuclear materials as may be produced by operation of the facility.
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
- Commonwealth Edison is authorized to operate Quad-Cities Unit No. 1 at power levels not in excess of 2511 megawatts (thermal).
- B. Technical Specifications
- The Technical Specifications contained in Appendices "A and B" to this license, appended hereto as Change No. 4, are hereby incorporated in this license as the Technical Specifications. Commonwealth Edison shall operate the facility at the power levels specified in condition 3.A of this license in accordance with these Technical Specifications. Commonwealth Edison may make changes in the Technical Specifications only when authorized by the Commission in accordance with the provisions of Section 50.59 of 10 CFR Part 50.
4. This license is effective as of the date of issuance, and shall expire at midnight, February 15, 2007.

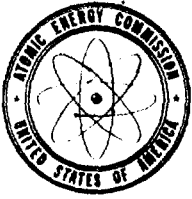
FOR THE ATOMIC ENERGY COMMISSION

A. Giambusso

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Enclosures: Appendices A and B--
Technical Specifications

Date of Issuance: December 14, 1972



UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

DOCKET NO. 50-265

COMMONWEALTH EDISON COMPANY

AND

IOWA-ILLINOIS GAS AND ELECTRIC COMPANY

FACILITY OPERATING LICENSE

Amendment No. 3
License No. DPR-30

The Atomic Energy Commission (the Commission) has found that:

- a. The application, as amended, complies with the requirements of the Atomic Energy Act of 1954, as amended (the Act), and the regulations of the Commission set forth in 10 CFR Chapter I;
- b. Construction of the Quad-Cities Nuclear Power Station Unit 2 (the facility) has been substantially completed in conformity with Provisional Construction Permit No. CPPR-24 and the application, as amended, the provisions of the Act, and the rules and regulations of the Commission set forth in 10 CFR Chapter I;
- c. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
- d. There is reasonable assurance (i) that the activities authorized by this operating license, as amended, can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
- e. The Commonwealth Edison Company and the Iowa-Illinois Gas and Electric Company are technically and financially qualified to engage in the activities authorized by this operating license, as amended, in accordance with the rules and regulations of the Commission;

- f. The Commonwealth Edison Company and the Iowa-Illinois Gas and Electric Company have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements";
- g. The issuance of this amended license will not be inimical to the common defense and security or to the health and safety of the public; and
- h. In accordance with the requirements of Appendix D of 10 CFR Part 50, Facility Operating License No. DPR-30 should be amended to authorized full-power operation subject to the conditions for protection of the environment referred to in paragraph 8 of the Summary and Conclusions section of the Final Environmental Statement dated September 1972 and set forth in the Technical Specifications incorporated herein.

Facility Operating License No. DPR-30, as amended, issued to Commonwealth Edison Company (Commonwealth Edison) and Iowa-Illinois Gas and Electric Company (Iowa-Illinois) is hereby amended in its entirety to read as follows:

- 1. This license applies to the Quad-Cities Nuclear Power Station Unit 2, a single cycle, boiling, light-water reactor, and electric generating equipment (the facility) which is jointly owned by Commonwealth Edison and Iowa-Illinois. The facility is part of the Quad-Cities Nuclear Power Station located in Rock Island County, Illinois, and is described in the application for construction permit and facility license dated May 31, 1966, and subsequent amendments thereto, including the application amendment dated August 30, 1968, as amended, for the full-power license and the Environmental Report dated November 12, 1970, as supplemented November 1, 1971, and thereafter.
- 2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Commonwealth Edison and Iowa-Illinois, pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities", to own the facility, as their interests appear in the application, and hereby licenses Commonwealth Edison, acting for itself and as agent for Iowa-Illinois:

- A. Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities", to possess, use, and operate the facility as a utilization facility at the location designated in the application, in accordance with the procedures and limitations described in the application and in this license;
- B. Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material", to receive, possess, and use at any one time up to 3000 kilograms of contained uranium 235 in connection with operation of the facility;
- C. Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Licensing of Byproduct Material", to receive, possess, and use in connection with operation of the facility:
 - (1) any byproduct material with Atomic Numbers between 3 and 83, inclusive, as contamination on fuel bundles, tools and equipment, laboratory samples and instrument calibration sources, in any form not to exceed 500 millicuries total,
 - (2) three sealed sources of five curies each of cesium 137,
 - (3) three sealed sources of five microcuries each of cesium 137,
 - (4) ten sealed sources of strontium 90, each source not to exceed 0.3 millicurie,
 - (5) one millicurie each of cobalt 60 and cesium 137 in any form,
 - (6) six curies of americium 241 as a sealed source,
 - (7) fourteen sealed sources of 1530 curies each of antimony 124,
 - (8) twenty-five sealed sources of strontium 90, with no source to exceed 1.2 microcuries,
 - (9) two sealed sources of 350 microcuries each of cobalt 60, and
 - (10) one curie of sodium 24 in any form for performance of testing on the steam turbines;

- D. Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not to separate, such byproduct and special nuclear materials as may be produced by operation of the facility.
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
- Commonwealth Edison is authorized to operate Quad-Cities Unit No. 2 at power levels not in excess of 2511 megawatts (thermal).
- B. Technical Specifications
- The Technical Specifications contained in Appendices "A and B" to this license, appended hereto as Change No. 4, are hereby incorporated in this license as the Technical Specifications. Commonwealth Edison shall operate the facility at the power levels specified in condition 3.A of this license in accordance with these Technical Specifications. Commonwealth Edison may make changes in the Technical Specifications only when authorized by the Commission in accordance with the provisions of Section 50.59 of 10 CFR Part 50.
4. This license is effective as of the date of issuance, and shall expire at midnight, February 15, 2007.

FOR THE ATOMIC ENERGY COMMISSION

A. Giambusso

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Enclosures: Appendices A and B--
Technical Specifications

Date of Issuance: December 14, 1972

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NOS. 50-254 AND 50-265

COMMONWEALTH EDISON COMPANY

AND

IOWA-ILLINOIS GAS AND ELECTRIC COMPANY

(QUAD-CITIES UNITS 1 AND 2)

NOTICE OF ISSUANCE OF AMENDED FACILITY OPERATING LICENSES

Notice is hereby given that the Atomic Energy Commission (the Commission) has issued amended Facility Operating Licenses Nos. DPR-29 and DPR-30 to the Commonwealth Edison Company and the Iowa-Illinois Gas and Electric Company. The amended licenses authorize the Commonwealth Edison Company (acting for itself and on behalf of the Iowa-Illinois Gas and Electric Company) to operate Units 1 and 2 of the Quad-Cities Nuclear Power Station (both single-cycle, boiling water reactors and located in Rock Island County, Illinois) each at continuous power levels up to 2511 megawatts (thermal), full-power, in accordance with the Technical Specifications issued therewith. The licenses are effective as of the date of issuance and shall expire February 15, 2007. On August 15, 1972, the Commonwealth Edison Company was authorized to operate the Quad-Cities Nuclear Power Station Units 1 and 2 each at steady state power levels up to 2260 megawatts (thermal), 90% of full power. This action was published in the Federal Register on August 24, 1972 (37 F.R. 17078).

The Director of Regulation has found that the application, as amended, for the full-power facility operating licenses complies with the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in 10 CFR Chapter I, and has made the remainder of the findings as set forth in the licenses and has concluded that the issuance of these licenses will not be inimical to the common defense and security or to the health and safety of the public.

Notice of AEC Consideration of Issuance of Facility Operating Licenses for operation of each of the Quad-Cities Units 1 and 2 at 2511 megawatts (thermal), full-power, was published in the Federal Register on March 16, 1971 (36 F.R. 5008). However, licenses for full-power were not previously issued pending review of the additional environmental considerations required by the September 9, 1971 revision of Appendix D to 10 CFR Part 50 and the receipt of additional information from the Commonwealth Edison Company relating to changes in the Technical Specifications for full-power operation. By letter dated November 1, 1971, and thereafter, the Commonwealth Edison Company provided supplemental information to its November 12, 1970 Environmental Report as required by the revised Appendix D to 10 CFR Part 50. On March 9, 1972, the Commission's Draft Detailed

Statement on Environmental Considerations was published in the Federal Register (37 F.R. 5073), and thereafter on March 24, 1972, a Supplementary Notice of AEC Consideration of Issuance of Facility Operating Licenses was published in the Federal Register (37 F.R. 6142). The supplementary notice provided 30 days for intervention on the environmental aspects of the operation of Quad-Cities Units 1 and 2. The Director of Regulation's Final Environmental Statement was issued in September 1972 (noticed in the Federal Register on September 13, 1972 - 37 F.R. 18579). The additional information regarding the Technical Specifications required of the Commonwealth Edison Company has been received and found to be acceptable by the Commission's regulatory staff.

No request for a hearing by the applicants or petition for leave to intervene by any interested person have been filed following publication of the Notice of Consideration of Issuance of Facility Operating Licenses on March 16, 1971, and the publication of the supplementary notice thereby permitting the licensing actions for full-power operation that are herein being noticed.

For further information concerning these actions, see copies of the above-referenced and following items which are available for public inspection at the Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C., and at the Moline Public Library

at 504 - 17th Street, Moline, Illinois 61265: (1) Amendment No. 5 to Facility Operating License No. DPR-29 and Amendment No. 3 to Facility Operating License No. DPR-30, (2) Change No. 4 to the Technical Specifications (a reissuance of the Technical Specifications in their entirety) concurrently issued as part of Amendments 5 and 3, (3) Commonwealth Edison Company and Iowa-Illinois Gas and Electric Company's application for full-power licenses dated August 30, 1968, as amended, (4) the Director of Regulation's Safety Evaluation for the Quad-Cities Units 1 and 2 dated August 25, 1971, (5) the report of the Advisory Committee on Reactor Safeguards dated March 9, 1971, (6) the Commission's Draft Detailed Statement of Environmental Considerations dated March 6, 1972, and Addendum I thereto issued June 1972, and (7) the Director of Regulation's Final Environmental Statement dated September 1972. A copy of each of items (1), (2) and (7) may be obtained, as supply lasts, upon request sent to the Atomic Energy Commission, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing.

Dated at Bethesda, Maryland, this 14th day of December 1972.

FOR THE ATOMIC ENERGY COMMISSION

A Giambusso

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

CHECKLIST FOR ISSUANCE OF FACILITY LICENSE AMENDMENT

Applicant Commonwealth Edison Company and Iowa-Illinois Gas and Electric Co.
Facility Quad-Cities Units 1 and 2
Project Leader John Riesland
Licensing Assistant Reba Diggs

Date

Notice of Intent to Issue License:
Published in Federal Register
Action Date

3/16/71 - caught in
4/17/71 - 9/71 rev.
(to App. I
(to Part 50.

OR

Initial Decision or Order

Environmental Review:
Final Environmental Statement
Published in Federal Register

9/72
9/13/72

OR

Mini-Review Discussion & Findings Issued

Water Quality Certification:
Submitted by Applicant
Transmitted to EPA

License Fee:

Amount: \$38,905.00--addl. to be paid for 100%
Paid operation--total for both units.

*Pd. - Rec'd in
OC 12/13/72. RD*

Indemnity Agreement:
OAI Concurrence

No amendment to IA necessary--al-
ready at max. indemnification limit

Regulatory Operations Final Report:
(attach copy if available)

N/A

Technical Specifications:
RP Concurrence
EP Concurrence

N/A
12/5/72

Public Announcement (to be released):
(attach copy if available)

YES - *attached*

Issuance Package: OGC Concurrence

1. License
2. Federal Register Notice
3. Letter to Applicant
4. Letter to Joint Committee
5. *letter to Comm*

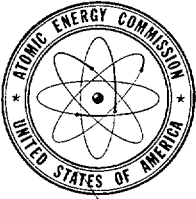
12/13/72
12/13/72
12/13/72
12/13/72

License Approved By:

MR. Giambusso signed amendments, notice, etc

A. Giambusso, Deputy Director for RP

on 12/14/72
(Date) *RD*



UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

Docket Nos. 50-254 and 50-265

Commonwealth Edison Company
ATTN: Mr. Byron Lee, Jr.
Assistant to the President
P. O. Box 767
Chicago, Illinois 60690

Gentlemen:

In response to your application dated August 30, 1968, as supplemented, enclosed are Amendments 5 and 3 to Facility Operating Licenses Nos. DPR-29 and DPR-30, respectively. These amendments authorize operation of the Quad-Cities Nuclear Power Station Units 1 and 2 each continuously at steady state power levels up to 2511 MWt (full-power).

Testing at 100% power in accordance with the startup test program shall be performed prior to commencing operation at 100% rated power, ~~unless you can justify to the Commission's satisfaction that test data at 100% power are not required.~~

Because of the significant number of changes required to be made to the Technical Specifications for full-power operation, including the non-radiological specifications, the Technical Specifications are being reissued in their entirety (with the amendments) as Change No. 4.

A copy of a notice regarding the issuance of these amendments that is being filed with the Office of the Federal Register for publication also is enclosed for your information.

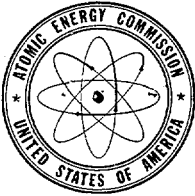
Sincerely,

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Enclosures:

1. Amendment No. 5 to License No. DPR-29
2. Amendment No. 3 to License No. DPR-30
3. Federal Register Notice

cc w/enclosures: See next page



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

December 14, 1972

Files (Docket Nos. 50-254 and 50-265)

THRU: D. L. Ziemann, Chief, ORB #2, L

D. L. Ziemann
CONSIDERATION OF 100% RATED POWER LICENSES FOR QUAD-CITIES 1 AND 2 -
TECHNICAL SPECIFICATIONS CHANGE NO. 4

Our evaluation of the application to operate Quad-Cities Units 1 and 2, issued August 25, 1971, concluded that the units can be operated as proposed at power levels up to 2511 Mwt without endangering the health and safety of the public. All items identified, during the review, by the ACRS and Regulatory Staff as requiring further analysis by the applicant have been completed and evaluated by the staff, except for the spent fuel cask drop accident analysis. This accident analysis and the evaluation are expected to be completed by the spring of 1973.

Technical specification (TS) changes discussed below were proposed by the licensee as a result of SAR amendments and supplementary reports thereto. As a result of our evaluations of the amendments and supplementary reports, we have concluded that the TS changes can be made without endangering the health and safety of the public due to operation of the units.

A number of changes in the Technical Specifications were considered necessary prior to issuing 100% rated power licenses to Commonwealth Edison Company (CECo) for Quad-Cities Units 1 and 2. Most of these required changes were listed in our letter dated July 26, 1972, to CECo. This letter also stipulated that these changes were to be made before issuance of the 100% power licenses. In addition, our letter to CECo dated August 9, 1972, required additional information relative to the TS for the drywell to torus vacuum breakers. Some of the new and revised specifications are required as the result of the following experienced abnormal occurrences:

1. Torus ring header failure.
2. Jet pump failure.
3. Flood of equipment important to safety.
4. Vacuum breakers stuck open.

Quad-Cities Special Reports 2, 3 and 4, respectively, describe occurrences 2, 3 and 4 listed above and provide bases for TS changes. When the licensee's analysis is submitted and our evaluation of item 1 above is completed, appropriate surveillance requirements for the torus and ring-header system will be added to the TS.

Proposed changes to the TS, requested by our letter dated July 26, 1972, were transmitted by CECO letters dated November 8, 1972 and November 20, 1972. Change No. 4 includes the following items which are listed in our July 26, 1972 letter and were addressed in CECO's responses:

1. Turbine first stage pressure stop valve closure bypass set point added.
2. Control rod position indications surveillance added.
3. References to Dresden FSAR changes to reference the Quad-Cities FSAR.
4. LCO, surveillance and bases changes for ECCS discharge pipe fill system.
5. LCO, surveillance and bases changes for jet pumps operability.
6. LCO, surveillance and bases changes for drywell to torus vacuum breakers.
7. Control rod drive maintenance surveillance changes.

In addition, the following items not listed in the July 26, 1972 letter are included in Change No. 4:

1. Refueling interlocks LCO, surveillance and bases changes.
2. LCO, surveillance and bases added for flood protection for equipment important to safety.
3. Table listing containment testable penetrations added.
4. Closure of vacuum pump isolation valves added to Primary Containment Isolation table.
5. Definition of abnormal occurrence resulting from administrative actions added.

December 14, 1972

6. Control room ventilation system isolation LCO, surveillance and bases changed.
7. Post-accident surveillance of torus pressure added and dry-well instrumentation ranges changed.
8. LCO and bases changes in maximum control rod reactivity worth from 2.5% Δk to 1.0% Δk based on NEDO 10527, Supplement 1, dated July 1972.
9. Revised frequency of taking samples for analysis required by Appendix B (non-radiological environmental TS).
10. Change in automatic dispatch system operation LCO.
11. Reactor building ventilation duct monitoring LCO, surveillance and bases changed.
12. Logic systems functional tests added.
13. Bases for margin of liquid poison control system boron concentration changed.
14. Revised the term used in describing the signal to isolate HPCI steam line.
15. Reporting requirements revised.

Changes in the above areas are made in the TS to be issued with the 100% power licenses. We have concluded that these TS will provide acceptable requirements, limits and controls for safe operation of the Quad-Cities Units at 100% rated power.



J. I. Riesland
Operating Reactors Branch #2
Directorate of Licensing

cc: RTedesco, L:CS (2)
DJSkovholt, L:OR
RO (3)
TJCarter, L:OR
DLZiemann, L:ORB #2
JIRiesland, L:ORB #2
RMDiggs, L:ORB #2
MJinks, DRA (2)
PDR
Local PDR