



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

APR 29 1986

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

Mr. Dennis L. Farrar
Director of Nuclear Licensing
Commonwealth Edison Company
P. O. Box 767
Chicago, Illinois 60690

Dear Mr. Farrar:

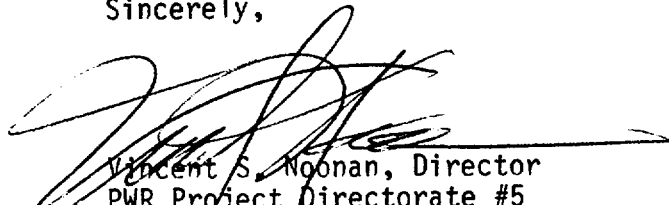
Subject: Issuance of Amendment No. 1 to Construction Permits CPPR-131, CPPR-132 and CPPR-133 for the Byron Station, Unit 2 and Braidwood Station, Units 1 and 2

Your letter dated September 25, 1985, requested amendments to Construction Permits CPPR-131, CPPR-132 and CPPR-133 in connection with the partial exemption from General Design Criterion 4 (GDC-4) requested by letter to H. R. Denton dated September 17, 1984 and supplemented by letter dated June 28, 1985. In subsequent telephone conversations, you have modified your September 25, 1985 amendment request.

The Exemption from a portion of GDC-4 of Appendix A to 10 CFR Part 50 regarding the need to analyze large primary loop pipe ruptures as structural design basis for the Byron Station, Unit 2 and the Braidwood Station, Units 1 and 2 was issued on October 28, 1985. The Exemption was noticed in the Federal Register on November 1, 1985 (50 FR 45680).

Construction Permits CPPR-131, CPPR-132 and CPPR-133 have been amended to include the exemption from GDC-4 as Amendment No. 1 to each permit. A copy of each Amendment No. 1 is enclosed along with the Safety Evaluation and the related Federal Register Notice, the original of which, has been forwarded to the Office of the Federal Register for publication.

Sincerely,



Vincent S. Noonan, Director
PWR Project Directorate #5
Division of PWR Licensing-A

Enclosures:

1. Amendment No. 1 to CPPR-131, CPPR-132 and CPPR-133
2. Safety Evaluation
3. Federal Register Notice

cc: See next page

8605060539 860429
PDR ADOCK 05000455
A PDR

Mr. Dennis L. Farrar
Commonwealth Edison Company

Byron/Braidwood

cc:

Mr. William Kortier
Atomic Power Distribution
Westinghouse Electric Corporation
Post Office Box 355
Pittsburgh, Pennsylvania 15230

Dr. Bruce von Zellen
Department of Biological Sciences
Northern Illinois University
DeKalb, Illinois 61107

Joseph Gallo, Esq.
Isham, Lincoln & Beale
1150 Connecticut Ave., N.W.
Suite 1100
Washington, D. C. 20036

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

C. Allen Bock, Esquire
Post Office Box 342
Urbana, Illinois 61801

Ms. Diane Chavez
528 Gregory Street
Rockford, Illinois 61108

Thomas J. Gordon, Esquire
Waler, Evans & Gordon
2503 S. Neil
Champaign, Illinois 61820

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

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

Douglass Cassel, Esq.
109 N. Dearborn Street
Suite 1300
Chicago, Illinois 60602

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

Ms. Pat Morrison
5568 Thunderidge Drive
Rockford, Illinois 61107

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

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

Elena Z. Kezelis, Esq.
Isham, Lincoln & Beale
Three First National Plaza
Suite 5200
Chicago, Illinois 60602

MAR 6 1986

cc:
Regional Administrator
U. S. NRC, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Mr. Charles D. Jones, Director
Illinois Emergency Services
and Disaster Agency
110 East Adams Street
Springfield, Illinois 62706

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

Mr. Michael C. Parker, Chief
Division of Engineering
Illinois Department of
Nuclear Safety
1035 Outer Park Drive
Springfield, Illinois 62704

Michael Miller
Isham, Lincoln & Beale
One First National Plaza
42nd Floor
Chicago, Illinois 60603

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

Mr. Dennis L. Farrar
Commonwealth Edison Company

Byron Station, Units 1 and 2
Braidwood Station (other)
Units 1 and 2

cc:

Attorney General
500 South 2nd Street
Springfield, Illinois 62701

Mr. Michael C. Parker, Chief
Division of Engineering
Illinois Department of Nuclear Safety
1035 Outer Park Drive
Springfield, Illinois 62704

EIS Review Coordinator
EPA Region V
230 S. Dearborn Street
Chicago, Illinois 60604

Chairman
Will County Board of Supervisors
Will County Courthouse
Joliet, Illinois 60434

Chairman, Ogle County Board
P. O. Box 357
Oregon, Illinois 61061

DISTRIBUTION:

(AMENDMENT NO. 1 - BYRON/BRAIDWOOD)

DATED: APR 29 1986

Docket File
NRC PDR
Local PDR

PD#5 R/F
MRushbrook
LOlshan
JStevens
TNovak
JSaltzman, SAB
CMiles
HDenton
JRutberg
W. Lamb
RDiggs, LFMB
JPartlow
BGrimes
EJordan
LHarmon
V. Benaroya, FOB
TBarnhart (12)
Inez Bailey
SLewis
EChan
JScinto

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

Mr. Dennis L. Farrar
Director of Nuclear Licensing
Commonwealth Edison Company
P. O. Box 767
Chicago, Illinois 60690

APR 29 1986

Dear Mr. Farrar:

Subject: Issuance of Amendment No. 1 to Construction Permits CPPR-131,
CPPR-132 and CPPR-133 for the Byron Station, Unit 2 and
Braidwood Station, Units 1 and 2

Your letter dated September 25, 1985, requested amendments to Construction Permits CPPR-131, CPPR-132 and CPPR-133 in connection with the partial exemption from General Design Criterion 4 (GDC-4) requested by letter to H. R. Denton dated September 17, 1984 and supplemented by letter dated June 28, 1985. In subsequent telephone conversations, you have modified your September 25, 1985 amendment request.

The Exemption from a portion of GDC-4 of Appendix A to 10 CFR Part 50 regarding the need to analyze large primary loop pipe ruptures as structural design basis for the Byron Station, Unit 2 and the Braidwood Station, Units 1 and 2 was issued on October 28, 1985. The Exemption was noticed in the Federal Register on November 1, 1985 (50 FR 45680).

Construction Permits CPPR-131, CPPR-132 and CPPR-133 have been amended to include the exemption from GDC-4 as Amendment No. 1 to each permit. A copy of each Amendment No. 1 is enclosed along with the Safety Evaluation and related Federal Register Notice, the original of which, has been forwarded to the Office of the Federal Register for publication.

Sincerely,

5/
Vincent S. Noonan, Director
PWR Project Directorate #5
Division of PWR Licensing-A

Enclosures:

1. Amendment No. 1 to CPPR-131, CPPR-132
and CPPR-133
2. Safety Evaluation
3. Federal Register Notice

Distribution:
See attached page

cc: See next page

* See next page for previous concurrences

PD#5
Mushrook:els*
11/7/86

PD#5
LOlshan*
11/7/85

PD#5
JStevens*
11/8/85

2 HZ 4/14/86
OELD SHY
SHLewis* / E.Chan
11/13/85

DIR:PD#5
VSNoonan
4/23/86

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

APR 29 1986

Mr. Dennis L. Farrar
Director of Nuclear Licensing
Commonwealth Edison Company
P. O. Box 767
Chicago, Illinois 60690

Dear Mr. Farrar:

Subject: Issuance of Amendment No. 1 to Construction Permits CPPR-131,
CPPR-132 and CPPR-133 for the Byron Station, Unit 2 and
Braidwood Station, Units 1 and 2

Your letter dated September 25, 1985, requested amendments to Construction Permits CPPR-131, CPPR-132 and CPPR-133 in connection with the partial exemption from General Design Criterion 4 (GDC-4) requested by letter to H. R. Denton dated September 17, 1984 and supplemented by letter dated June 28, 1985. In subsequent telephone conversations, you have modified your September 25, 1985 amendment request.

The Exemption from a portion of GDC-4 of Appendix A to 10 CFR Part 50 regarding the need to analyze large primary loop pipe ruptures as structural design basis for the Byron Station, Unit 2 and the Braidwood Station, Units 1 and 2 was issued on October 28, 1985. The Exemption was noticed in the Federal Register on November 1, 1985 (50 FR 45680).

Construction Permits CPPR-131, CPPR-132 and CPPR-133 have been amended to include the exemption from GDC-4 as Amendment No. 1 to each permit. A copy of each Amendment No. 1 is enclosed along with the related Federal Register Notice, the original of which, has been forwarded to the Office of the Federal Register for publication.

Sincerely,



Vincent S. Noonan, Director
PWR Project Directorate #5
Division of PWR Licensing-A

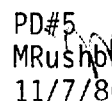
Enclosures:

- 1. Amendment No. 1 to CPPR-131, CPPR-132
and CPPR-133
- 2. Federal Register Notice

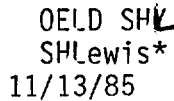
Distribution:
See attached page

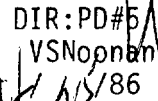
cc: See next page

* See next page for previous concurrences

 PD#5
 MRushbrook:els* 10/1/85
 11/7/86

PD#5
 JStevens*
 11/8/85

 OELD SHL
 SHLewis*
 11/13/85

 DIR:PD#5
 VSNoonan
 11/5/86

HZ 3/10/86

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

Mr. Dennis L. Farrar
Director of Nuclear Licensing
Commonwealth Edison Company
P. O. Box 767
Chicago, Illinois 60690

Dear Mr. Farrar:

Subject: Issuance of Amendment No. 1 to Construction Permits CPPR-131,
CPPR-132 and CPPR-133 for the Byron Station, Unit 2 and
Braidwood Station, Units 1 and 2

Your letter dated September 25, 1985, requested amendments to Construction Permits CPPR-131, CPPR-132 and CPPR-133 in connection with the partial exemption from General Design Criterion 4 (GDC-4) requested by letter to H. R. Denton dated September 17, 1984 and supplemented by letter dated June 28, 1985.

The Exemption from a portion of GDC-4 of Appendix A to 10 CFR Part 50 regarding the need to analyze large primary loop pipe ruptures as structural design basis for the Byron Station, Unit 2 and the Braidwood Station, Units 1 and 2 was issued on October 28, 1985. The Exemption was noticed in the Federal Register on November 1, 1985 (50 FR 45680).

Construction Permits CPPR-131, CPPR-132 and CPPR-133 have been amended to include the exemption from GDC-4 as Amendment No. 1 to each permit. A copy of each Amendment No. 1 is enclosed along with the related Federal Register Notice, the original of which, has been forwarded to the Office of the Federal Register for publication.

Sincerely,

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

Enclosures:

1. Amendment No. 1 to CPPR-131, CPPR-132
and CPPR-133
2. Federal Register Notice

DISTRIBUTION:
See attached page

cc: See next page

LB#1: *[Signature]*
MRushbrook: kab
11/7/85

LB#1: DL
LOlshan
11/7/85

LB#1: DL *[Signature]*
JStevens
11/8/85

OELD *[Signature]*
SH Lewis
11/13/85

LB#1: DL
BJYoungblood
11/ /85



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. STN 50-455

BYRON STATION, UNIT NO. 2

AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 1
Construction Permit No. CPPR-131

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Commonwealth Edison Company (the licensee), dated September 25, 1985, 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 issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - C. 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, Construction Permit No. CPPR-131 is amended as follows:
 - A. Change Paragraph 3.C to read:
 - C. This construction permit authorizes the applicant to construct the facility described in the application and in the hearing record, in accordance with the principal architectural and engineering criteria (except to the extent modifications of such criteria have been authorized by the exemption issued on October 28, 1985) and environmental protection commitments set forth therein.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

8605060545 860429
PDR ADOCK 05000455
A PDR

Date of Issuance: APR 29 1986

Byron Unit 2

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Thomas M. Novak

Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance: APR 29 1986

* See next page for previous concurrences

PD#5
MRushbrook
11/1/85

LO
PD#5
LOlshan*
11/7/85

4/23/10/86
OELD SHL
SLewis*
11/13/85

OELD
JScinto
1/86

JK
DIR:PD#5
VSNoonan
4/25/86

AD: PWR-A
TNovak
4/29/86

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Hugh L. Thompson, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance:

LB#1:DL
MRushbrook:kab
11/ /85

DL LB#1:DL *Salerno*
LOlshan *11/7/85*

OELD *LH2*
SLewis
11/13/85

OELD
JScinto
11/ /85

LB#1:DL
BJYoungblood
11/ /85

AD:L:DL
TNovak
11/ /85

D:DL
HThompson
11/ /85



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. STN 50-456

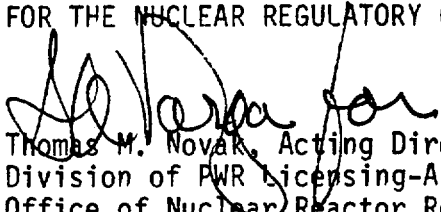
BRAIDWOOD STATION, UNIT NO. 1

AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 1
Construction Permit No. CPPR-132

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Commonwealth Edison Company (the licensee), dated September 25, 1985, 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 issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - C. 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, Construction Permit No. CPPR-132 is amended as follows:
 - A. Change Paragraph 3.C to read:
 - C. This construction permit authorizes the applicant to construct the facility described in the application and in the hearing record, in accordance with the principal architectural and engineering criteria (except to the extent modifications of such criteria have been authorized by the exemption issued on October 28, 1985) and environmental protection commitments set forth therein.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance APR 29 1986

COMMONWEALTH EDISON COMPANY
DOCKET NO. STN 50-456
BRAIDWOOD STATION, UNIT NO. 1
AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 1
Construction Permit No. CPPR-132

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Commonwealth Edison Company (the licensee), dated September 25, 1985, 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 issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - C. 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, Construction Permit No. CPPR-132 is amended as follows:
 - A. Change Paragraph 3.C to read:
 - C. This construction permit authorizes the applicant to construct the facility described in the application and in the hearing record, in accordance with the principal architectural and engineering criteria (except to the extent modifications of such criteria have been authorized by the exemption issued on October 28, 1985) and environmental protection commitments set forth therein.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

for S.A. Vargo

Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance APR 29 1986 * See next page for previous concurrences

PD#5-
MRushbrook:els*
11/1/85

PD#5
JStevens*
11/8/85

OELD
EChan*
4/17/86

OELD
JScinto
1/86

DIR:PD#5
VSNoonan
4/25/86

AD:PWR-A
TNovak
4/29/86

D:PWR-A
HThompson
1/86

COMMONWEALTH EDISON COMPANY
DOCKET NO. STN 50-456
BRAIDWOOD STATION, UNIT NO. 1
AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 1
Construction Permit No. CPPR-132

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Commonwealth Edison Company (the licensee), dated September 25, 1985, 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 issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - C. The issuance of this amendment is in accordance with 10 CFR Part 50.51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, Construction Permit No. CPPR-132 is amended as follows:
 - A. Change Paragraph 3.C to read:
 - C. This construction permit authorizes the applicant to construct the facility described in the application and in the hearing record, in accordance with the principal architectural and engineering criteria (except to the extent modifications of such criteria have been authorized by the exemption issued on October 28, 1985) and environmental protection commitments set forth therein.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance * See next page for previous concurrences

PD#5
MRushbrook:els*
11/1/85

PD#5
JStevens*
11/8/85

OELD *gve*
EChan
4/16/86

OELD
JScinto
/ /86

DIR:PD#5
VSnoghan
4/2/86

AD:PWR-A
TNovak
/ /86

D:PWR-A
HThompson
/ /86

COMMONWEALTH EDISON COMPANY

DOCKET NO. STN 50-456

BRAIDWOOD STATION, UNIT NO. 1

AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 1
Construction Permit No. CPPR-132

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Commonwealth Edison Company (the licensee), dated September 25, 1985, 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 issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - C. The issuance of this amendment is in accordance with 10 CFR Part 50.51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, Construction Permit No. CPPR-132 is amended as follows:
 - A. Change Paragraph 3.C to read:
 - C. This construction permit authorizes the applicant to construct the facility described in the application and in the hearing record, in accordance with the principal architectural and engineering criteria (except to the extent modifications of such criteria have been authorized by the exemption issued on October 28, 1985) and environmental protection commitments set forth therein.
3. This amendment is effective as of the dated of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance * See next page for previous concurrences

PD#5 *MR*
MRushbrook:els*
11/1/85

PD#5
JStevens*
11/8/85

OELD
EChan
/ /86

OELD
JScinto
/ /86

DIR:PD#5
VSNoonan
/ /86

AD:PWR-A
TNovak
/ /86

D:PWR-A
HThompson
/ /86

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Hugh L. Thompson, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance:

MR
LB#1:DL
MRushbrook:kab
11/ /85

LB#1:DL *gas*
JStevens
11/8/85

OELD
EChang
11/ /85

OELD
JScinto
11/ /85

LB#1:DL
BJYoungblood
11/ /85

AD:L:DL
TNovak
11/ /85

D:DL
HThompson
11/ /85



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. STN 50-457

BRAIDWOOD STATION, UNIT NO. 2

AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 1
Construction Permit No. CPPR-133

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Commonwealth Edison Company (the licensee), dated September 25, 1985, 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 issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - C. 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, Construction Permit No. CPPR-133 is amended as follows:
 - B. Change Paragraph 3.C to read:
 - C. This construction permit authorizes the applicant to construct the facility described in the application and in the hearing record, in accordance with the principal architectural and engineering criteria (except to the extent modifications of such criteria have been authorized by the exemption on October 28, 1985) and environmental protection commitments set forth therein.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "Tom Novak", written over the typed name and title.

Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance: APR 29 1986

COMMONWEALTH EDISON COMPANY
DOCKET NO. STN 50-457
BRAIDWOOD STATION, UNIT NO. 2
AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 1
Construction Permit No. CPPR-133

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Commonwealth Edison Company (the licensee), dated September 25, 1985, 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 issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - C. 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, Construction Permit No. CPPR-133 is amended as follows:
 - A. Change Paragraph 3.C to read:
 - C. This construction permit authorizes the applicant to construct the facility described in the application and in the hearing record, in accordance with the principal architectural and engineering criteria (except to the extent modifications of such criteria have been authorized by the exemption on October 28, 1985) and environmental protection commitments set forth therein.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

for SA Varga
Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance: **APR 29 1986**

* See next page for previous concurrences

PD#5
MRushbrook:els*
11/1/85

PD#5
JStevens*
11/8/85

OELD
EChang*
4/18/86

OELD
JScinto
1/86

DIR:PD#5
VSNoonan
4/25/86

AD:PWR-A
TNovak
4/29/86

D:PWR-A
HThompson
1/86

COMMONWEALTH EDISON COMPANY
DOCKET NO. STN 50-457
BRAIDWOOD STATION, UNIT NO. 2
AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 1
Construction Permit No. CPPR-133

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Commonwealth Edison Company (the licensee), dated September 25, 1985, 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 issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - C. The issuance of this amendment is in accordance with 10 CFR Part 50 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, Construction Permit No. CPPR-133 is amended as follows:
 - A. Change Paragraph 3.C to read:
 - C. This construction permit authorizes the applicant to construct the facility described in the application and in the hearing record, in accordance with the principal architectural and engineering criteria (except to the extent modifications of such criteria have been authorized by the exemption on October 28, 1985) and environmental protection commitments set forth therein.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance:

* See next page for previous concurrences

PD#5
MR: Brook:els*
11/1/85

PD#5
JStevens*
11/8/85

OELD *etc*
EChan:
4/15/86

OELD
JScinto
/86

DIR:PD#5
VSNoonan
11/1/86

AD:PWR-A
TNovak
/ /86

D:PWR-A
HThompson
/ /86

COMMONWEALTH EDISON COMPANY

DOCKET NO. STN 50-457

BRAIDWOOD STATION, UNIT NO. 2

AMENDMENT TO CONSTRUCTION PERMIT

Amendment No. 1
Construction Permit No. CPPR-133

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Commonwealth Edison Company (the licensee), dated September 25, 1985, 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 issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - C. The issuance of this amendment is in accordance with 10 CFR Part 50 5/ of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, Construction Permit No. CPPR-133 is amended as follows:
 - A. Change Paragraph 3.C to read:
 - C. This construction permit authorizes the applicant to construct the facility described in the application and in the hearing record, in accordance with the principal architectural and engineering criteria (except to the extent modifications of such criteria have been authorized by the exemption on October 28, 1985) and environmental protection commitments set forth therein.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance:

* See next page for previous concurrences

PD#5	PD#5	OELD	OELD	DIR:PD#5
MRushbrook:els*	JStevens*	EChang	JScinto	VSNoonan
11/1/85	11/8/85	/ /86	/ /86	/ /86

AD:PWR-A
TNovak
/ /86

~~D:PWR-A
HThompson
/ /86~~

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Hugh L. Thompson, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance:

LB#1:DL
MRushbrook:kab
11/ /85

LB#1:DL
JStevens
11/8/85

OELD
EChang
11/ /85

OELD
JScinto
11/ /85

LB#1:DL
BJYoungblood
11/ /85

AD:L:DL
TNovak
11/ /85

D:DL
HThompson
11/ /85

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 1 TO CONSTRUCTION PERMITS NO. CPPR-131,

CPPR-132 AND CPPR-133

COMMONWEALTH EDISON COMPANY

BYRON STATION, UNIT 2 AND BRAIDWOOD STATION, UNITS 1 and 2

DOCKET NOS.: STN 50-455, STN 50-456 AND STN 50-457

INTRODUCTION

In a letter dated September 17, 1984, Commonwealth Edison Company, (CECo) requested a partial exemption from General Design Criteria (GDC) 4 of Appendix A to 10 CFR Part 50 for Byron Station, Units 1 and 2, and Braidwood Station, Units 1 and 2. By letter dated June 28, 1985, CECo provided a value-impact analysis and requested that a partial exemption to GDC-4 be granted for the first two cycles of operation for the four facilities. By letter dated August 14, 1985, CECo withdrew, without prejudice, the request for the exemption for Byron Station, Unit 1.

The staff has completed its technical review of the CECo submittal regarding the application of the "leak-before-break" technology as an alternative to providing protective devices against the dynamic effects resulting from postulated ruptures of the primary coolant loops.

DISCUSSION AND EVALUATION

The staff's detailed evaluation and basis for granting the exemption to requirements of GDC 4 are delineated in the schedular Exemption enclosed with the staff's October 28, 1985 letter. The technical evaluation detailed in that Exemption is hereby incorporated into this Safety Evaluation by reference.

The schedular exemption stated that "The Commission hereby approves the limited schedular exemption from GDC 4 of Appendix A to 10 CFR Part 50, to eliminate the requirement to install protective devices, as detailed in Part II of this exemption, associated with postulated pipe breaks of the primary coolant system of Byron Station, Unit 2, and Braidwood Station, Units 1 and 2. This exemption is effective for periods ending at the completion of the second refueling outage of each of the three facilities, pending the outcome of rulemaking on this subject.

This amendment does not contain any new technical information; it merely modifies a condition in the Construction Permits to allow the terms of the October 28, 1985, exemption to be applied.

8605060549 860429
PDR ADDCK 05000455
A PDR

ENVIRONMENTAL ASSESSMENT

Pursuant to 10 CFR 51.32, the Commission has determined that the issuance of the October 28, 1985, schedular Exemption will have no significant impact on the environment (50 FR 43624).

In addition, the staff has determined that the amendment to the Construction Permit involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has determined that the amendment involves no significant hazards considerations. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

CONCLUSION

In granting the limited schedular Exemption, the staff found that the advanced fracture mechanics techniques used by the applicant provided an assurance that flaws in primary system piping will be detected before they reach a size that could lead to unstable crack growth. For this reason, further protection provided by protective devices against the dynamic effects resulting from the discharge from postulated breaks in the primary piping is unnecessary. Additionally, consideration of such dynamic effects associated with previously postulated pipe breaks is unnecessary. With full protection against dynamic effects provided by advanced analysis techniques, and based on the considerations discussed above, we conclude that: (1) the proposed amendment to Construction Permit CPPR-131, CPPR-132, and CPPR-133 permitting the use of the Exemption in construction of Byron Station, Unit 2, and Braidwood Station, Units 1 and 2, does not involve a significant increase in the probability or consequences of accidents previously considered, does not create the possibility of an accident of a type different from any evaluated previously, does not involve a significant decrease in a safety margin, and thus does not involve a significant hazards consideration; (2) there is reasonable assurance that the health and safety of the public will not be endangered by construction and operation in the proposed manner; and (3) such activities will be in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date of Issuance: APR 29 1986

ENVIRONMENTAL ASSESSMENT

Pursuant to 10 CFR 51.32, the Commission has determined that the issuance of the October 28, 1985, schedular Exemption will have no significant impact on the environment (50 FR 43624).

In addition, the staff has determined that the amendment to the Construction Permit involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has determined that the amendment involves no significant hazards considerations. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

CONCLUSION

In granting the limited schedular Exemption, the staff found that the advanced fracture mechanics techniques used by the applicant provided an assurance that flaws in primary system piping will be detected before they reach a size that could lead to unstable crack growth. For this reason, further protection provided by protective devices against the dynamic effects resulting from the discharge from postulated breaks in the primary piping is unnecessary. Additionally, consideration of such dynamic effects associated with previously postulated pipe breaks is unnecessary. With full protection against dynamic effects provided by advanced analysis techniques, and based on the considerations discussed above, we conclude that: (1) the proposed amendment to Construction Permit CPPR-131, CPPR-132, and CPPR-133 permitting the use of the Exemption in construction of Byron Station, Unit 2, and Braidwood Station, Units 1 and 2, does not involve a significant increase in the probability or consequences of accidents previously considered, does not create the possibility of an accident of a type different from any evaluated previously, does not involve a significant decrease in a safety margin, and thus does not involve a significant hazards consideration; (2) there is reasonable assurance that the health and safety of the public will not be endangered by construction and operation in the proposed manner; and (3) such activities will be in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date of Issuance: **APR 29 1986**

* See next page for previous concurrences

✓
4/29/86
PD#5*
LOIshan
4/4/86

OEID*
4/14/86

DIR:PD#5*
VSNooan
4/25/86

ENVIRONMENTAL ASSESSMENT

Pursuant to 10 CFR 51.32, the Commission has determined that the issuance of the October 28, 1985, scheduler Exemption will have no significant impact on the environment (50 FR 43624).

In addition, the staff has determined that the amendment to the Construction Permit involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has determined that the amendment involves no significant hazards considerations. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

CONCLUSION

In granting the limited scheduler Exemption, the staff found that the advanced fracture mechanics techniques used by the applicant provided an assurance that flaws in primary system piping will be detected before they reach a size that could lead to unstable crack growth. For this reason, further protection provided by protective devices against the dynamic effects resulting from the discharge from postulated breaks in the primary piping is unnecessary. Additionally, consideration of such dynamic effects associated with previously postulated pipe breaks is unnecessary. With full protection against dynamic effects provided by advanced analysis techniques, and based on the considerations discussed above, we conclude that: (1) the proposed amendment to Construction Permit CPPR-131, CPPR-132, and CPPR-133 permitting the use of the Exemption in construction of Byron Station, Unit 2, and Braidwood Station, Units 1 and 2, does not involve a significant increase in the probability or consequences of accidents previously considered, does not create the possibility of an accident of a type different from any evaluated previously, does not involve a significant decrease in a safety margin, and thus does not involve a significant hazards consideration; (2) there is reasonable assurance that the health and safety of the public will not be endangered by construction and operation in the proposed manner; and (3) such activities will be in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date of Issuance:

PD#5 *
LOlshan
4 / 4 / 86

OELD #
4 / 14 / 86

DIR:PD#5
VSNooan
4 / 14 / 86

* See next page for previous concurrences

ENVIRONMENTAL ASSESSMENT

Pursuant to 10 CFR 51.32, the Commission has determined that the issuance of the October 28, 1985, scheduler Exemption will have no significant impact on the environment (50 FR 43624).

In addition, the staff has determined that the amendment to the Construction Permit involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has determined that the amendment involves no significant hazards considerations. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

CONCLUSION

In granting the limited scheduler Exemption, the staff found that the advanced fracture mechanics techniques used by the applicant provided an assurance that flaws in primary system piping will be detected before they reach a size that could lead to unstable crack growth. For this reason, further protection provided by protective devices against the dynamic effects resulting from the discharge from postulated breaks in the primary piping is unnecessary. Additionally, consideration of such dynamic effects associated with previously postulated pipe breaks is unnecessary. With full protection against dynamic effects provided by advanced analysis techniques, and based on the considerations discussed above, we conclude that: (1) the proposed amendment to Construction Permit CPPR-131, CPPR-132, and CPPR-133 permitting the use of the Exemption in construction of Byron Station, Unit 1, and Braidwood Station, Units 1 and 2, does not involve a significant increase in the probability or consequences of accidents previously considered, does not create the possibility of an accident of a type different from any evaluated previously, does not involve a significant decrease in a safety margin, and thus does not involve a significant hazards consideration; (2) there is reasonable assurance that the health and safety of the public will not be endangered by construction and operation in the proposed manner; and (3) such activities will be in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date of Issuance:

PD#5
LOIshan
4/4/86

OELD *at HX* DIR:PD#5
S H Lewis VS Noonan
4/14/86 / /86
with correction
to p. 2 noted.
E. Chan EJR
4/18/86

UNITED STATES NUCLEAR REGULATORY COMMISSION
DOCKET NOS. STN 50-455, STN 50-456 AND STN 50-457
COMMONWEALTH EDISON COMPANY
NOTICE OF ISSUANCE OF AMENDMENTS TO CONSTRUCTION PERMITS

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 1 to Construction Permit Nos. CPPR-131, CPPR-132 and CPPR-133 for the Byron Station, Unit 2 and the Braidwood Station, Units 1 and 2. Amendment No. 1 modifies the construction permits to reflect issuance, by the Commission, of an Exemption dated October 28, 1985. The Exemption, from a portion of the requirements of General Design Criterion 4 (GDC-4) of Appendix A to 10 CFR Part 50, was granted for the first two cycles of operation for Byron Station, Unit 2 and Braidwood Station, Units 1 and 2 to eliminate the need for pipe whip restraints and jet impingement shields on primary loop piping. The amendments are effective as of the date of issuance.

The application for the amendments comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in 10 CFR Chapter I, which are set forth in the amendments. Prior public notice of these amendments were not required since the amendments do not involve a significant hazards consideration.

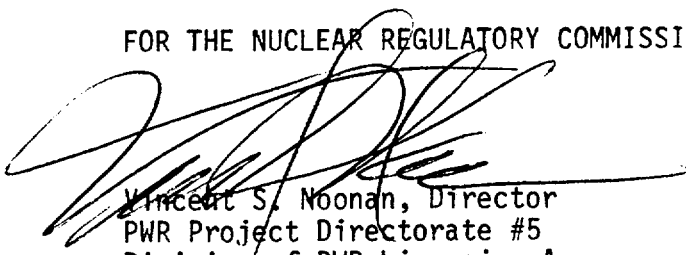
8605050579

5pp.

- 2 -

For further details with respect to this action, see (1) the application for amendments dated September 25, 1985; (2) Amendment No. 1 to Construction Permits Nos. CPPR-131, CPPR-132 and CPPR-133; (3) the Exemption dated October 28, 1985, (4) the Commission's related Safety Evaluation; and (5) the Notice of Environmental Assessment and Finding of No Significant Impact dated October 21, 1985. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555, and at the Local Public Document Rooms located in the Rockford Public Library, 215 N. Wyman Street, Rockford, Illinois 61103 and in the Wilmington Township Public Library, 201 S. Kankakee Street, Wilmington, Illinois 60481. In addition, a copy of items (2), (3), (4) and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of PWR Licensing-A, Office of Nuclear Reactor Regulation.

FOR THE NUCLEAR REGULATORY COMMISSION



Vincent S. Noonan, Director
PWR Project Directorate #5
Division of PWR Licensing-A

Dated this 29th day of April, 1986 in Bethesda, Maryland

- 2 -

For further details with respect to this action, see (1) the application for amendments dated September 25, 1985; (2) Amendment No. 1 to Construction Permits Nos. CPPR-131, CPPR-132 and CPPR-133; (3) the Exemption dated October 28, 1985, (4) the Commission's related Safety Evaluation; and (5) the Notice of Environmental Assessment and Finding of No Significant Impact dated October 21, 1985. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555, and at the Local Public Document Rooms located in the Rockford Public Library, 215 N. Wyman Street, Rockford, Illinois 61103 and in the Wilmington Township Public Library, 201 S. Kankakee Street, Wilmington, Illinois 60481. In addition, a copy of items (2), (3), (4) and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of PWR Licensing-A, Office of Nuclear Reactor Regulation.

FOR THE NUCLEAR REGULATORY COMMISSION

15/
 Vincent S. Noonan, Director
 PWR Project Directorate #5
 Division of PWR Licensing-A

Dated this 29th day of April 1986 in Bethesda, Md.

* See next page for previous concurrences

PD#5
 MRushbrook:els*
 11/8/85

PD#5
 LOlshan*
 11/8/86

PD#5
 JStevens*
 11/8/85

JH2 4/14/86
 OELD
 JScinto
 / 186
eye 4/15/86

DIR:PD#5
 VSNoonan
 4/15/86

3/15/86

For further details with respect to this action, see (1) the application for amendments dated September 25, 1985; (2) Amendment No. 1 to Construction Permits Nos. CPPR-131, CPPR-132 and CPPR-133; (3) the Exemption dated October 28, 1985, (4) the Commission's related Safety Evaluation; and (5) the Notice of Environmental Assessment and Finding of No Significant Impact dated October 21, 1985. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555, and at the Local Public Document Rooms located in the Rockford Public Library, 215 N. Wyman Street, Rockford, Illinois 61103 and in the Wilmington Township Public Library, 201 S. Kankakee Street, Wilmington, Illinois 60481. In addition, a copy of items (2), (3), (4) and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing, Office of Nuclear Reactor Regulation.

FOR THE NUCLEAR REGULATORY COMMISSION

Vincent S. Noonan, Director
PWR Project Directorate #5
Division of PWR Licensing-A

* See next page for previous concurrences

PD#5
MRushbrook:els*
11/8/85

PD#5
LOlshan*
11/8/86

PD#5
JStevens*
11/8/85

OELD
JScinto
/ /86

DIR:PD#5
VSNoonan
/ /86

- 2 -

For further details with respect to this action, see (1) the application for amendments dated September 25, 1985; (2) Amendment No. 1 to Construction Permits Nos. CPPR-131, CPPR-132 and CPPR-133; (3) the Exemption dated October 28, 1985, (4) the Commission's related Safety Evaluation; and (5) the Notice of Environmental Assessment and Finding of No Significant Impact dated October 21, 1985. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555, and at the Local Public Document Rooms located in the Rockford Public Library, 215 N. Wyman Street, Rockford, Illinois 61103 and in the Wilmington Township Public Library, 201 S. Kankakee Street, Wilmington, Illinois 60481. In addition, a copy of items (2), (3), (4) and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing, Office of Nuclear Reactor Regulation.

FOR THE NUCLEAR REGULATORY COMMISSION

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

LB#1:DL
MRushbrook:kab
11/8/85

LB#1:DL
LOlshan
11/8/85

OELD
JStevens
11/8/85

OELD
JScinto
11/ /85

LB#1:DL
BJYoungblood
11/ /85