

April 15, 1988

Docket Nos. STN 50-454, STN 50-455
and STN 50-456, STN 50-457

Mr. L. D. Butterfield, Jr.
Nuclear Licensing Manager
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

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Dear Mr. Butterfield:

The Commission has issued the enclosed Amendment No. 17 to Facility Operating License No. NPF-37 and Amendment No. 17 to Facility Operating License No. NPF-66 for the Byron Station, Unit Nos. 1 and 2, respectively and Amendment No. 8 to Facility Operating License No. NPF-72, and Amendment No. 8 to Facility Operating License No. NPF-75 for Braidwood Station, Units No. 1 and 2, respectively. The amendments consist of changes to the Technical Specifications in response to your application transmitted by letter dated January 12, 1988.

These amendments approve changes to the Technical Specifications to separate the Gaseous Waste Management System Oxygen Analyzer into its two major components.

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

Sincerely,

Original Signed by/

Stephen P. Sands, Project Manager
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Original Signed by/

Leonard N. Olshan, Project Manager
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Enclosures:

- | | |
|-------------------------------|------------------------------|
| 1. Amendment No. 17 to NPF-37 | 3. Amendment No. 8 to NPF-72 |
| 2. Amendment No. 17 to NPF-66 | 4. Amendment No. 8 to NPF-75 |
| 5. Safety Evaluation | |

cc: w/enclosures
See next page

① PDIII-2:PM
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LOlshan:bj
for SSands
4/4/88
4/4/88

① PDIII-2:LA
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

April 15, 1988

Docket Nos. STN 50-454, STN 50-455
and STN 50-456, STN 50-457

Mr. L. D. Butterfield, Jr.
Nuclear Licensing Manager
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. Butterfield:

The Commission has issued the enclosed Amendment No. 17 to Facility Operating License No. NPF-37 and Amendment No. 17 to Facility Operating License No. NPF-66 for the Byron Station, Unit Nos. 1 and 2, respectively and Amendment No. 8 to Facility Operating License No. NPF-72, and Amendment No. 8 to Facility Operating License No. NPF-75 for Braidwood Station, Units No. 1 and 2, respectively. The amendments consist of changes to the Technical Specifications in response to your application transmitted by letter dated January 12, 1988.

These amendments approve changes to the Technical Specifications to separate the Gaseous Waste Management System Oxygen Analyzer into its two major components.

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

Sincerely,

Stephen P. Sands, Project Manager
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Leonard N. Olshan, Project Manager
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Enclosures:

1. Amendment No. 17 to NPF-37
2. Amendment No. 17 to NPF-66
3. Amendment No. 8 to NPF-72
4. Amendment No. 8 to NPF-75
5. Safety Evaluation

cc: w/enclosures
See next page

Mr. L. D. Butterfield, Jr.
Commonwealth Edison Company

Byron/Braidwood

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Mr. L. D. Butterfield, Jr.
Commonwealth Edison Company

- 2 -

Byron/Braidwood

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

COMMONWEALTH EDISON COMPANY

DOCKET NO. STN 50-454

BYRON STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 17
License No. NPF-37

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated January 12, 1988, 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 Specification as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-37 is hereby amended to read as follows:

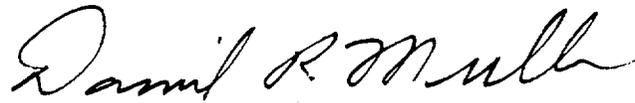
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(2) Technical Specifications

The Technical Specifications contained in Appendix A as revised through Amendment No. 17 and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Daniel R. Muller, Director
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 15, 1988



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. STN 50-455

BYRON STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 17
License No. NPF-66

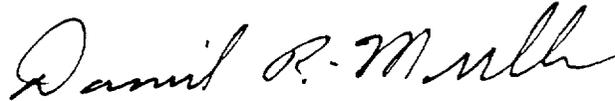
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated January 12, 1988, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules 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 2.C.(2) of Facility Operating License No. NPF-66 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A (NUREG-1113), as revised through Amendment No. 17 and revised by Attachment 2 to NPF-60, and the Environmental Protection Plan contained in Appendix B, both of which are attached to License No. NPF-37, dated February 14, 1985, are hereby incorporated into this license. Attachment 2 contains a revision to Appendix A which is hereby incorporated into this license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Daniel R. Muller, Director
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 15, 1988

ATTACHMENT TO LICENSE AMENDMENT NOS. 17 AND 17
FACILITY OPERATING LICENSE NOS. NPF-37 AND NPF-66
DOCKET NOS. STN-50-454 AND STN 50-455

Revise Appendix A as follows:

<u>Remove Pages</u>	<u>Insert Pages</u>
3/4 3-64	3/4 3-64
3/4 3-65	3/4 3-65
3/4 3-68	3/4 3-68
3/4 3-70	3/4 3-70

TABLE 3.3-13 (Continued)

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION[#]

	<u>INSTRUMENT</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>APPLICABILITY</u>	<u>ACTION</u>
3.	Gaseous Waste Management System			
	a. Hydrogen Analyzer (OAT-GW8000)	1	**	38
	b. Oxygen Analyzer (OAT-GW8003)	1	**	38
	c. Waste Gas Compressor Discharge Oxygen Analyzer (OAIT-GW004)	1	***	38
4.	Gas Decay Tank System			
	a. Noble Gas Activity Monitor - Providing Alarm and Automatic Termination of Release (ORE-PR002A and 2B)	2	*	35
5.	Containment Purge System			
	a. Noble Gas Activity Monitor - Providing Alarm (RE-PR001B)	1	*	37
	b. Iodine Sampler (RE-PR001C)	1	*	40
	c. Particulate Sampler (RE-PR001A)	1	*	40
6.	Radioactivity Monitors Providing Alarm and Automatic Closure of Surge Tank Vent-Component Cooling Water Line (ORE-PR009 and RE-PR009)	2	*	41

TABLE 3.3-13 (Continued)

TABLE NOTATIONS

- *At all times.
- **During WASTE GAS HOLDUP SYSTEM operation.
- ***During Waste Gas Compressor Operation.
- #All instruments required for Unit 1 or Unit 2 operation.

ACTION STATEMENTS

- ACTION 35 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, the contents of the tank(s) may be released to the environment for up to 14 days provided that prior to initiating the release:
- a. At least two independent samples of the tank's contents are analyzed, and
 - b. At least two technically qualified members of the facility staff independently verify the release rate calculations and discharge valve lineup.
- Otherwise, suspend release of radioactive effluents via this pathway.
- ACTION 36 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue for up to 30 days provided the flow rate is estimated at least once per 4 hours.
- ACTION 37 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, immediately suspend PURGING of radioactive effluents via this pathway.
- ACTION 38 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, operation of this system may continue provided grab samples are taken and analyzed at least once per 4 hours during degassing operations and at least once per 24 hours during other operations.
- ACTION 39 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue for up to 30 days provided grab samples are taken at least once per 12 hours and these samples are analyzed for radioactivity within 24 hours.

BYRON - UNITS 1 & 2

3/4 3-68

Amendment No. 17

TABLE 4.3-9 (Continued)

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS[#]

<u>FUNCTIONAL UNIT</u>	<u>CHANNEL CHECK</u>	<u>SOURCE CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>DIGITAL CHANNEL OPERATIONAL TEST</u>	<u>MODES FOR WHICH SURVEILLANCE IS REQUIRED</u>
2. Plant Vent Monitoring System - Unit Two (continued)					
d. Effluent System Flow Rate Measuring Device (LOOP-VA020)	D	N.A.	R ^{##}	Q	*
e. Sampler Flow Rate Measuring Device (2FT-PR165)	D	N.A.	R ^{##}	Q	*
3. Gaseous Waste Management System					
a. Hydrogen Analyzer (OAT-GW8000)	D	N.A.	Q(4)	M	**
b. Oxygen Analyzer (OAT-GW8003)	D	N.A.	Q(5)	M	**
c. Waste Gas Compressor Discharge Oxygen Analyzer (OAIT-GW004)	D	N.A.	Q(5)	M	***
4. Gas Decay Tank System					
a. Noble Gas Activity Monitor - Providing Alarm and Automatic Termination of Release (ORE-PR002A and 2B)	P	P	R(3) ^{##}	Q(1)	*
5. Containment Purge System					
a. Noble Gas Activity Monitor - Providing Alarm (RE-PR001B)	D	P	R(3) ^{##}	Q(2)	*
b. Iodine Sampler (RE-PR001C)	P	P	R(3) ^{##}	N.A.	*
c. Particulate Sampler (RE-PR001A)	P	P	R(3) ^{##}	N.A.	*

TABLE 4.3-9 (Continued)

TABLE NOTATIONS

*At all times.

**During WASTE GAS HOLDUP SYSTEM operation.

***During Waste Gas Compressor Operation.

#All instruments required for Unit 1 or Unit 2 operation.

##The specified 18 month interval may be extended to 32 months for Cycle 1 only.

- (1) The DIGITAL CHANNEL OPERATIONAL TEST shall also demonstrate that automatic isolation of this pathway and control room alarm annunciation occur if any of the following conditions exists:
 - a. Instrument indicates measured levels above the Alarm/Trip Setpoint, or
 - b. Circuit failure (monitor loss of communications - alarm only, detector loss of counts, or monitor loss of power), or
 - c. Detector check source test failure, or
 - d. Detector channel out-of-service, or
 - e. Monitor loss of sample flow.
- (2) The DIGITAL CHANNEL OPERATIONAL TEST shall also demonstrate that control room alarm annunciation occurs if any of the following conditions exists:
 - a. Instrument indicates measured levels above the Alarm Setpoint, or
 - b. Circuit failure (monitor loss of communications - alarm only, detector loss of counts, or monitor loss of power), or
 - c. Detector check source test failure, or
 - d. Detector channel out-of-service, or
 - e. Monitor loss of sample flow.
- (3) The initial CHANNEL CALIBRATION shall be performed using one or more of the reference standards certified by the National Bureau of Standards (NBS) or using standards that have been obtained from suppliers that participate in measurement assurance activities with NBS. These standards shall permit calibrating the system over its intended range of energy and measurement range. For subsequent CHANNEL CALIBRATION, sources that have been related to the initial calibration shall be used.
- (4) The CHANNEL CALIBRATION shall include the use of standard gas samples containing hydrogen and nitrogen.
- (5) The CHANNEL CALIBRATION shall include the use of standard gas samples containing oxygen and nitrogen.

ATTACHMENT TO LICENSE AMENDMENT NOS. 8 AND 8
AND FACILITY OPERATING LICENSE NOS. NPF-72 AND NPF-75
DOCKET NOS. STN-50-456 AND STN 50-457

Revise Appendix A as follows:

<u>Remove Pages</u>	<u>Insert Pages</u>
3/4 3-66	3/4 3-66
3/4 3-67	3/4 3-67
3/4 3-70	3/4 3-70
3/4 3-72	3/4 3-72

TABLE 3.3-13 (Continued)

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION[#]

<u>INSTRUMENT</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>APPLICABILITY</u>	<u>ACTION</u>
3. Gaseous Waste Management System			
a. Hydrogen Analyzer (OAT-GW8000)	1	**	38
b. Oxygen Analyzer (OAT-GW8003)	1	**	38
c. Waste Gas Compressor Discharge Oxygen Analyzer (OAIT-GW004)	1	***	38
4. Gas Decay Tank System			
a. Noble Gas Activity Monitor - Providing Alarm and Automatic Termination of Release (ORE-PR002A and 2B)	2	*	35
5. Containment Purge System			
a. Noble Gas Activity Monitor - Providing Alarm (RE-PR001B)	1	*	37
b. Iodine Sampler (RE-PR001C)	1	*	40
c. Particulate Sampler (RE-PR001A)	1	*	40
6. Radioactivity Monitors Providing Alarm and Automatic Closure of Surge Tank Vent-Component Cooling Water Line (ORE-PR009 and RE-PR009)	2	*	41

TABLE 3.3-13 (Continued)

TABLE NOTATIONS

- *At all times.
- **During WASTE GAS HOLDUP SYSTEM operation.
- ***During Waste Gas Compressor Operation.
- #All instruments required for Unit 1 or Unit 2 operation.

ACTION STATEMENTS

ACTION 35 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, the contents of the tank(s) may be released to the environment for up to 14 days provided that prior to initiating the release:

- a. At least two independent samples of the tank's contents are analyzed, and
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Otherwise, suspend release of radioactive effluents via this pathway.

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ACTION 37 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, immediately suspend PURGING of radioactive effluents via this pathway.

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ACTION 39 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue for up to 30 days provided grab samples are taken at least once per 12 hours and these samples are analyzed for radioactivity within 24 hours.

TABLE 4.3-9 (Continued)

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS[#]

<u>FUNCTIONAL UNIT</u>	<u>CHANNEL CHECK</u>	<u>SOURCE CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>DIGITAL CHANNEL OPERATIONAL TEST</u>	<u>MODES FOR WHICH SURVEILLANCE IS REQUIRED</u>
2. Plant Vent Monitoring System - Unit Two (continued)					
d. Effluent System Flow Rate Measuring Device (LOOP-VA020)	D	N.A.	R##	Q	*
e. Sampler Flow Rate Measuring Device (2FT-PR165)	D	N.A.	R##	Q	*
3. Gaseous Waste Management System					
a. Hydrogen Analyzer (OAT-GW8000)	D	N.A.	Q(4)	M	**
b. Oxygen Analyzer (OAT-GW8003)	D	N.A.	Q(5)	M	**
c. Waste Gas Compressor Discharge Oxygen Analyzer (OAIT-GW004)	D	N.A.	Q(5)	M	***
4. Gas Decay Tank System					
a. Noble Gas Activity Monitor - Providing Alarm and Automatic Termination of Release (ORE-PR002A and 2B)	P	P	R(3)##	Q(1)	*
5. Containment Purge System					
a. Noble Gas Activity Monitor - Providing Alarm (RE-PR001B)	D	P	R(3)##	Q(2)	*
b. Iodine Sampler (RE-PR001C)	P	P	R(3)##	N.A.	*
c. Particulate Sampler (RE-PR001A)	P	P	R(3)##	N.A.	*

BRAIDWOOD - UNITS 1 & 2

3/4 3-70

Amendment No. 8

TABLE 4.3-9 (Continued)

TABLE NOTATIONS

*At all times.

**During WASTE GAS HOLDUP SYSTEM operation.

***During Waste Gas Compressor Operation.

#All instruments required for Unit 1 or Unit 2 operation.

##The specified 18 month interval may be extended to 32 months for cycle 1 only.

- (1) The DIGITAL CHANNEL OPERATIONAL TEST shall also demonstrate that automatic isolation of this pathway and control room alarm annunciation occur if any of the following conditions exists:
 - a. Instrument indicates measured levels above the Alarm/Trip Setpoint, or
 - b. Circuit failure (monitor loss of communications - alarm only, detector loss of counts, or monitor loss of power), or
 - c. Detector check source test failure, or
 - d. Detector channel out-of-service, or
 - e. Monitor loss of sample flow.
- (2) The DIGITAL CHANNEL OPERATIONAL TEST shall also demonstrate that control room alarm annunciation occurs if any of the following conditions exists:
 - a. Instrument indicates measured levels above the Alarm Setpoint, or
 - b. Circuit failure (monitor loss of communications - alarm only, detector loss of counts, or monitor loss of power), or
 - c. Detector check source test failure, or
 - d. Detector channel out-of-service, or
 - e. Monitor loss of sample flow.
- (3) The initial CHANNEL CALIBRATION shall be performed using one or more of the reference standards certified by the National Bureau of Standards (NBS) or using standards that have been obtained from suppliers that participate in measurement assurance activities with NBS. These standards shall permit calibrating the system over its intended range of energy and measurement range. For subsequent CHANNEL CALIBRATION, sources that have been related to the initial calibration shall be used.
- (4) The CHANNEL CALIBRATION shall include the use of standard gas samples containing hydrogen and nitrogen.
- (5) The CHANNEL CALIBRATION shall include the use of standard gas samples containing oxygen and nitrogen.



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. STN 50-456

BRAIDWOOD STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 8
License No. NPF-72

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated January 12, 1988, 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 Specification as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-72 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A as revised through Amendment No. 8 and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Daniel R. Muller, Director
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 15, 1988



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

COMMONWEALTH EDISON COMPANY

DOCKET NO. STN 50-457

BRAIDWOOD STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 8
License No. NPF-75

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated January 12, 1988, 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 Specification as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-75 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A as revised through Amendment No. 8 and the Environmental Protection Plan contained in Appendix B, both of which were attached to License No. NPF-72, dated July 2, 1987, are hereby incorporated into this license. Attachment 2 contains revisions to Appendix A which are hereby incorporated into this license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Daniel R. Muller, Director
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 15, 1988



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 17 TO FACILITY OPERATING LICENSE

NOs. NPF-37 AND NPF-66

BYRON STATION UNITS 1 AND 2

DOCKET NOs. 50-454 AND 50-455

AND

SUPPORTING AMENDMENT NO. 8 TO FACILITY OPERATING LICENSE

NOs. NPF-72 AND NPF-75

BRAIDWOOD STATION UNITS 1 AND 2

DOCKET NOs. 50-456 AND 50-457

1.0 INTRODUCTION

By letter dated January 12, 1988, Commonwealth Edison (CECo), the licensee, submitted a Proposed Amendment to Facility Operating Licenses NPF-37, NPF-66, NPF-72, and NPF-75, for the Byron and Braidwood Stations, Units 1 and 2. The proposed amendment requests changes to Technical Specification (TS) Tables 3.3-13 and 4.3-9, to separate the Gaseous Waste Management System (GWPS) Oxygen Analyzer into its two major components. These changes would describe the two separate oxygen analyzers based upon how they are operated. Also, a proposed change to ACTION Statement 38 was requested to cover the individual operation of each analyzer for less than the stated channels operable.

A Notice of Consideration of Issuance of Amendment to License and Proposed No Significant Hazards Consideration Determination and Opportunity for Hearing related to the requested action was published in the Federal Register on March 9, 1988 (53 FR 7588). No requests for hearing and no public comments were received.

2.0 DISCUSSION AND EVALUATION

The GWPS Oxygen Analyzer is actually two separate oxygen analyzers at different system locations, which operate independently of each other. The Oxygen Analyzer (OAT-GW8003) is part of the Automatic Gas Analyzer and analyzes the oxygen concentration from various source tanks lined up to the Waste Gas Compressor suction and any one of the Gas Decay Tanks. The Oxygen Analyzer is capable of continuous operation since flow is provided by an inline pump. The Waste Gas Compressor Oxygen Analyzer (OAIT-GW004) is located on the discharge side of the compressor and is capable of continuously analyzing the oxygen concentration in the compressor discharge as long as one compressor is running. The proper operation of each analyzer is dependent upon adequate gas flow past the detectors. For example, if no compressor is running and a

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sample is analyzed by the Waste Gas Compressor Oxygen Analyzer, the reading would not be representative of the actual oxygen concentration due to stagnation (no flow condition) in the discharge line.

The proposed changes to TS Table 3.3-13 would separate the two oxygen analyzers into individual monitors and more clearly define their application and function. Since the OAIT-GW004 analyzer requires a Waste Gas Compressor to be in operation for it to function properly, the minimum of one (1) channel being operable would need only apply during operation of a compressor. The proposed change to ACTION Statement 38 would cover the individual operation of each analyzer for less than the stated channels required to be operable. The proposed changes to TS Table 4.3-9 would separate the surveillance requirements applicable to the individual monitors.

The staff has reviewed the GWPS description and diagrams as described in the Byron/Braidwood Stations Final Safety Analysis Report (FSAR), Section 11.3, and discussed the basis of the proposed TS changes with the licensee. The staff has concluded that the proposed TS changes do not involve any physical change or modification to the GWPS, and that the intended operation of the GWPS, as described in FSAR, will remain unchanged. The proposed changes would more clearly define the application and function of the two oxygen analyzers. Therefore, the staff finds that the changes are acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment 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 previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this 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.

4.0 CONCLUSION

The staff has further concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner; and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of this amendment will not be inimical to the common defense and security or the health and safety of the public.

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Dated: April 15, 1988