

April 13, 1989

Docket Nos.: 50-254
and 50-265

Mr. Henry E. Bliss
Nuclear Licensing Manager
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. Bliss:

SUBJECT: CO₂ FIRE HOSES SURVEILLANCE REQUIREMENTS (TAC NOS. 71871 AND 71872)

Re: Quad Cities Nuclear Power Station, Units 1 and 2

The Commission has issued the enclosed Amendment Nos. 116 and 112 to Facility Operating License Nos. DPR-29 and DPR-30 for the Quad Cities Nuclear Power Station, Units 1 and 2. The amendments are in response to your application dated January 19, 1989. With this amendment, CO₂ fire hose stations listed in Technical Specification (TS) Table 3.12-4 no longer are subject to the surveillance requirements prescribed in TS 4.12.E. for fire hose stations. The purpose of the enclosed amendments is to differentiate the surveillance testing for water and CO₂ hoses.

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

Sincerely,

151

Thierry Ross, Project Manager
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Enclosures:

- 1. Amendment No. 116 to License No. DPR-29
- 2. Amendment No. 112 to License No. DPR-30
- 3. Safety Evaluation

cc w/enclosures:
See next page

DISTRIBUTION

Docket file	GHolahan	EJordan	ACRS (10)
NRC & Local PDRs	LLuther	BGrimes	GPA/PA
PDIII-2 r/f	TRoss	TMeek (8)	ARM/LFMB
DMuller	OGC	WJones	Plant file
MVirgilio	DHagan	EButcher	

*See previous concurrence

*PDIII-2:LA
LLuther:dmj
4/3/89

*PDIII-2:PM
TRoss
3/31/89

*OGC
4/3/89

*PDIII-2:PD
DMuller
3/31/89

JFDI
1/1

c/p-1

8904240159 890413
PDR ADDCK 05000254
PDC
P

April 13, 1989

Docket Nos.: 50-254
and 50-265

Mr. Henry E. Bliss
Nuclear Licensing Manager
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. Bliss:

SUBJECT: CO₂ FIRE HOSES SURVEILLANCE REQUIREMENTS (TAC NOS. 71871 AND 71872)

Re: Quad Cities Nuclear Power Station, Units 1 and 2

The Commission has issued the enclosed Amendment Nos. 116 and 112 to Facility Operating License Nos. DPR-29 and DPR-30 for the Quad Cities Nuclear Power Station, Units 1 and 2. The amendments are in response to your application dated January 19, 1989. With this amendment, CO₂ fire hose stations listed in Technical Specification (TS) Table 3.12-4 no longer are subject to the surveillance requirements prescribed in TS 4.12.E. for fire hose stations. The purpose of the enclosed amendments is to differentiate the surveillance testing for water and CO₂ hoses.

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

Sincerely,

151

Thierry Ross, Project Manager
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Enclosures:

1. Amendment No. 116 to License No. DPR-29
2. Amendment No. 112 to License No. DPR-30
3. Safety Evaluation

cc w/enclosures:
See next page

DISTRIBUTION

Docket file
NRC & Local PDRs
PDIII-2 r/f
DMuller
MVirgilio

GHolahan
LLuther
TRoss
OGC
DHagan

EJordan
BGrimes
TMeek (8)
WJones
EButcher

ACRS (10)
GPA/PA
ARM/LFMB
Plant file

*See previous concurrence

*PDIII-2:LA
LLuther:dmlj
4/3/89

*PDIII-2:PM
TRoss
3/31/89

*OGC
4/3/89

*PDIII-2:PD
DMuller
3/31/89



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

April 13, 1989

Docket Nos.: 50-254
and 50-265

Mr. Henry E. Bliss
Nuclear Licensing Manager
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. Bliss:

SUBJECT: CO₂ FIRE HOSES SURVEILLANCE REQUIREMENTS (TAC NOS. 71871 AND 71872)

Re: Quad Cities Nuclear Power Station, Units 1 and 2

The Commission has issued the enclosed Amendment Nos. 116 and 112 to Facility Operating License Nos. DPR-29 and DPR-30 for the Quad Cities Nuclear Power Station, Units 1 and 2. The amendments are in response to your application dated January 19, 1989. With this amendment, CO₂ fire hose stations listed in Technical Specification (TS) Table 3.12-4 no longer are subject to the surveillance requirements prescribed in TS 4.12.E. for fire hose stations. The purpose of the enclosed amendments is to differentiate the surveillance testing for water and CO₂ hoses.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Thierry Ross".

Thierry Ross, Project Manager
Project Directorate III-2
Division of Reactor Projects - III,
IV, V and Special Projects

Enclosures:

1. Amendment No. 116 to
License No. DPR-29
2. Amendment No. 112 to
License No. DPR-30
3. Safety Evaluation

cc w/enclosures:
See next page

Mr. Henry E. Bliss
Commonwealth Edison Company

Quad Cities Nuclear Power Station
Units 1 and 2

cc:

Mr. Stephen E. Shelton
Vice President
Iowa-Illinois Gas and
Electric Company
P. O. Box 4350
Davenport, Iowa 52808

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

Mr. Richard Bax
Station Manager
Quad Cities Nuclear Power Station
22710 206th Avenue North
Cordova, Illinois 61242

Resident Inspector
U. S. Nuclear Regulatory Commission
22712 206th Avenue North
Cordova, Illinois 61242

Chairman
Rock Island County Board
of Supervisors
1504 3rd Avenue
Rock Island County Office Bldg.
Rock Island, Illinois 61201

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

Regional Administrator, Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road, Bldg. #4
Glen Ellyn, Illinois 60137



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

COMMONWEALTH EDISON COMPANY

AND

IOWA-ILLINOIS GAS AND ELECTRIC COMPANY

DOCKET NO. 50-254

QUAD CITIES NUCLEAR POWER STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 116
License No. DPR-29

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated January 19, 1989, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B. of Facility Operating License No. DPR-29 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 116, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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 13, 1989

ATTACHMENT TO LICENSE AMENDMENT NO. 116

FACILITY OPERATING LICENSE NO. DPR-29

DOCKET NO. 50-254

Revise the Appendix A Technical Specifications by removing the pages identified below and inserting the attached pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change.

REMOVE

3.12/4.12-13

INSERT

3.12/4.12-13

QUAD-CITIES
DPR-29

TABLE 3.12-4

FIRE HOSE STATIONS

<u>NO.</u>	<u>SIZE</u>	<u>LOCATION</u>
F168	100 ft.	Outside South Entrance to Control Room
F169	100 ft.	Outside Cable Spreading Room
F170	100 ft.	Outside Cable Spreading Room
F111	100 ft.	Outside Battery Charger Room near MCC 15-1
F171	100 ft.	Outside Electrical Equipment Room
F172	100 ft.	Outside Electrical Equipment Room near Machine Shop
F129	100 ft.	Above Cable Tunnel at Column 17-G
F130	100 ft.	Outside DGI at column 23-G
F156	100 ft.	Outside DG 1/2 at column 14-N
F138	100 ft.	Outside RHR Service Water Pump rooms by column 18-D
F158	100 ft.	South RHR Room
F159	100 ft.	North RHR Room
F160	100 ft.	Outside North Core Spray Room
F161	100 ft.	Outside South Core Spray Room
*CO-3B	150 ft.	Outside Battery Charger Room near MCC 18-2
F142	100 ft.	Standby Liquid Control Area
F143	100 ft.	Standby Liquid Control Area
F106	100 ft.	Between Bus 13-1 and Bus 14-1
*CO-2A	150 ft.	South of Bus 14-1
*CO-4B	150 ft.	Northwest of DGI Room
F155	100 ft.	MCC 18/19-5
F151	100 ft.	Southwest of MCC 18-1A

*These hose stations are not subject to the surveillance requirements of Specification 4.12.E. and are instead operationally pressure tested annually.



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

COMMONWEALTH EDISON COMPANY

AND

IOWA-ILLINOIS GAS AND ELECTRIC COMPANY

DOCKET NO. 50-265

QUAD CITIES NUCLEAR POWER STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 112
License No. DPR-30

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Commonwealth Edison Company (the licensee) dated January 19, 1989, 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 and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B. of Facility Operating License No. DPR-30 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 112, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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 13, 1989

ATTACHMENT TO LICENSE AMENDMENT NO. 112

FACILITY OPERATING LICENSE NO. DPR-30

DOCKET NO. 50-265

Revise the Appendix A Technical Specifications by removing the pages identified below and inserting the attached pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change.

REMOVE

3.12/4.12-9

INSERT

3.12/4.12-9

QUAD-CITIES
DPR-30

TABLE 3.12-4

FIRE HOSE STATIONS

<u>NO.</u>	<u>SIZE</u>	<u>LOCATION</u>
F168	100 ft.	Outside South Entrance to Control Room
F169	100 ft.	Outside Cable Spreading Room
F170	100 ft.	Outside Cable Spreading Room
*CO-25B	150 ft.	Outside Battery Charger Room near MCC 28-2
F172	100 ft.	Outside Electrical Equipment Room near Machine Shop
F171	100 ft.	Outside Electrical Equipment Room
F129	100 ft.	Above Cable Tunnel at Column 17-G
F211	100 ft.	Above Cable Tunnel at Column 9-G
F212	100 ft.	Above Cable Tunnel at Column 3-G
F225	100 ft.	Outside RHR Service Water Pump Rooms by Column 8-E
F247	100 ft.	Outside North Core Spray Room
F248	100 ft.	North RHR Room
F249	100 ft.	South RHR Room
F250	100 ft.	Outside South Core Spray Room
F156	100 ft.	Outside DG 1/2 at Column 14-N
F231	100 ft.	Standby Liquid Control Area
F232	100 ft.	Standby Liquid Control Area
F201	100 ft.	Between Bus 23-1 and Bus 24-1
*CO-21A	150 ft.	North of Bus 23-1
F244	100 ft.	MCC 28/29-5
F242	100 ft.	MCC 29-1
F128	100 ft.	Above and East of Cable Tunnel
*CO-26A	150 ft.	Above and East of Cable Tunnel
*CO-24B	150 ft.	Southwest of DG2 Room

* These hose stations are not subjected to the surveillance requirements of Specification 4.12.E and are instead operationally pressure tested annually.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 116 TO FACILITY OPERATING LICENSE NO. DPR-29
AND AMENDMENT NO. 112 TO FACILITY OPERATING LICENSE NO. DPR-30

COMMONWEALTH EDISON COMPANY

AND

IOWA-ILLINOIS GAS AND ELECTRIC COMPANY

QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2

DOCKET NOS. 50-254/265

1.0 INTRODUCTION

By letter dated January 19, 1989, Commonwealth Edison Company (CECo, the licensee) proposed to amend Technical Specifications (TS) for the Quad Cities Nuclear Power Station (QCNPS) regarding surveillance requirements for CO₂ fire hoses. Existing TS 4.12.E. does not differentiate between the two types of fire hose stations that exist at QCNPS (i.e. water and CO₂ hoses). Furthermore, TS do not differentiate between the kind of surveillances that are performed on these hoses. These hoses are constructed of differing materials (water hoses are composed of a woven type material while CO₂ hoses are made of a rubber-based material). CECo, to date, has been conducting the surveillance testing requirements of TS 4.12.E. only for water hoses even though TS did not obviate this testing for CO₂ hoses.

2.0 EVALUATION

The purpose of CECo's amendment request was to clarify the surveillance requirements for fire hoses, specifically, for CO₂ hoses where surveillance should have differed from what currently exists in QCNPS TS. This mismatch was due to an oversight which occurred during development of the fire protection TS in 1977. Technical Specification Table 3.12-4 was created to show which hose reels, due to their proximity to safety-related equipment, had to be maintained as operable. Inclusion of the seven (7) CO₂ hose reels into Table 3.12-4 was done to identify them as reels which were required to be operable. However, it also mistakenly tied them into the Surveillance Requirements in Section 4.12.E. for the water-based hose stations. Surveillance requirements specifically intended for the CO₂ hose reels, should have been prescribed by TS 4.12.D., CO₂ Systems.

Although the existing TS do not differentiate between the kind of surveillance testing required for CO₂ and water hoses, the National Fire Protection Association (NFPA) Codes call out specific requirements for CO₂ hose reel surveillance activities other than those for water hose reels. At the time

that TS Table 3.12-4 was developed, NFPA 12-1973 only called for regular inspections of the CO₂ hoses and replacement at certain intervals in accordance with the listings of a nationally recognized testing laboratory (water hoses had other requirements). As a result, it may be inferred that the Surveillance Requirements of TS 4.12.E. were incorrectly applied to CO₂ hose reels by listing them in Table 3.12-4.

QCNPS is committed to meet the requirements of the current NFPA 12, Section 1-11.2.7 or replace the CO₂ hoses in accordance with the intervals specified in the Code. The station will administratively ensure, via its surveillance tracking program, that the CO₂ hose surveillances are performed at the NFPA specified intervals. CECO considers administrative controls are adequate for ensuring compliance with NFPA. Consequently, there is no need to specify the CO₂ surveillance requirements in the TS. This consideration is supported by NRC Generic Letter 88-12 which allows a licensee to delete non-safe shutdown related fire protection equipment from the Technical Specifications. Local application of CO₂ is not an integral portion of the fire protection/fire fighting plan at Quad Cities Station due to the acquisition of safer, more versatile fire extinguishing units. And, as such, this equipment is a candidate for deletion from TS. This new equipment, consisting of twelve (12) wheeled units, is currently serving as backup equipment to the CO₂ hoses listed in Table 3.12-4 of the specifications.

Based upon the aforementioned discussion, the NRC has concluded that CECO's amendment request for not subjecting CO₂ fire hose stations to the testing requirements of TS 4.12.E. should be granted. Furthermore, NFPA Code requirements are applicable for CO₂ fire hoses and can be administratively controlled by plant procedures.

3.0 ENVIRONMENTAL CONSIDERATION

These amendments involve a change to the surveillance requirements of components located within the restricted area as defined in 10 CFR Part 20. The staff has determined these amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding these amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, these amendments meet 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 nor environmental assessment need be prepared in connection with the issuance of these amendments.

4.0 CONCLUSION

The staff has 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, (2) such

activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of this amendment will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: Thierry Ross

Dated: April 13, 1989