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Docket Nos. 50-254
50-265

JUL 2 1976

Commonwealth Edison Company
ATTN: Mr. R. L. Bolger
Assistant Vice President
Post Office Box 767
Chicago, Illinois 60690

Gentlemen:

The Commission has issued the enclosed Amendment Nos. 28 and 26 to Facility License Nos. DPR-29 and DPR-30, respectively, for the Quad Cities Station, Units 1 and 2. These amendments are in response to your request dated September 17, 1975.

These amendments modify the technical specification requirements for certain environmental sample locations, frequencies and monitoring instruments used for determining the presence of radioisotopes in the environment in the vicinity of the Quad Cities Nuclear Power Station. The changes consist of elimination of certain monitoring instruments or samples which have proved of limited value and the addition of other instruments and sample types which provide better indication of environmental conditions.

We have evaluated the potential for environmental impact of plant operation in accordance with the enclosed amendments. The amendments apply to sampling locations and sampling frequencies. We have determined that the amendments do not authorize a change in effluent types or total amounts nor an increase in power level, and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendments involve an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR §51.5(d)(4) that an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

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OFFICE ➤						
SURNAME ➤						
DATE ➤						

JUL 2 1976

Since the amendments apply only to the environmental sampling locations and to sampling frequencies, they do not involve significant new safety information of a type not considered by a previous Commission safety review of the facility. They do not involve a significant increase in the probability or consequences of an accident, do not involve a significant decrease in a safety margin, and therefore do not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

A copy of the related Federal Register Notice is also enclosed.

Sincerely,

5/
Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

Enclosures:

1. Amendment Nos. 28 and 26
to DPR-29 and DPR-30
2. Federal Register Notice

cc w/enclosures:
See attached list

*NOTE: FOR CONCURRENCES, SEE PREVIOUS YELLOW

Revised by OELD
on 6/28/76

DPZ

OFFICE ➤	DSE:EP-3	DSE:EP-3	DSE:ADEP	OR:ORB-2	OELD	OR:ORB-2
SURNAME ➤	MDuncan:aj DScaletti ro	WRegan	VMoore	PWO' Connor	TMBruen	DLZiemann
DATE ➤	7/1/76	/ / *	/ / *	/ / *	/ / *	6/30/76

hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

A copy of the related Federal Register Notice is also enclosed.

Sincerely,

Dennis L. Ziemann, Chief
Operating Reactors Branch 2
Division of Operating Reactors

Enclosures:

1. Amendment Nos. 28 and 26 to
DPR-29 and DPR-30
2. Federal Register Notice

cc w/encl: (see attached list)

bcc w/encl:

J. R. Buchanan, ORNL
T. B. Abernathy, DTIE
A. Rosenthal, ASLAB
N. Goodrich, ASLBP

OFFICE >	DSE:EP-3	DSE:EP-3	DSE:AREP	ORB-2	OELD	ORB-2
SURNAME >	MDuncan:aj DScalet	WRegan	VMoore	PO'Conner	TM B...	DZiemann
DATE >	4/12/76	4/14/76	4/14/76	4/15/76	4/19/76	4/ /76

Commonwealth Edison Company

cc w/encl:

Mr. Charles Whitmore
President and Chairman
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309 W. Washington
Chicago, Illinois 60606

Mr. Robert W. Watts, Chairman
Rock Island County Board of
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Rock Island County Court House
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Office of Radiation Programs
Environmental Protection Agency
Room 647A East Tower-Waterside Mall
401 M Street, S. W.
Washington, D. C. 20460

OFFICE➤						
SURNAME➤						
DATE➤						

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-265

QUAD CITIES STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 26
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 September 17, 1975, 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;
 - E. An environmental statement or negative declaration need not be prepared in connection with the issuance of this amendment.
2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

S/
Dennis L. Ziemann, Chief
Operating Reactors Branch 2
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: JUL 2 1976

OFFICE >	DSE:EP-3	DSE:EP-3	DSE:ADER	ORB-2 <i>pool</i>	OELD	ORB-2
SURNAME >	<i>MDuncan:aj</i> DScaletto	<i>WRegan</i>	<i>VMoore</i>	PO'Conner	<i>TMB</i>	DZiemann
DATE >	4/12/76	4/14/76	4/14/76	4/15/76	4/20/76	6/30/76

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-254

QUAD CITIES STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 28
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 September 17, 1975, 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;
 - E. An environmental statement or negative declaration need not be prepared in connection with the issuance of this amendment.
2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

S/
Dennis L. Ziemann, Chief
Operating Reactors Branch 2
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

DATE OF ISSUANCE:	JUL 2 1976	DSE:EP-3	DSE:ADEP	ORB-2	OELD	ORB-2
SURNAME	MDuncan:aj	WR	VMoore	PO'Conner	TMBNA	DZiemann
DATE	4/12/76	4/14/76	4/ /76	4/15/76	4/20/76	6/30/76

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 28 TO FACILITY OPERATING LICENSE NO. DPR-29

AMENDMENT NO. 26 TO FACILITY OPERATING LICENSE NO. DPR-30

Replace the existing pages of the Technical Specifications listed below with the attached revised pages bearing the same numbers. Changes on these pages are shown by marginal lines.

Pages 186
187
188
189
190
191
192 - Delete

TABLE 4.8.1

SAMPLE COLLECTION AND ANALYSIS
QUAD CITIES NUCLEAR POWER STATION - ENVIROMENTAL MONITORING PROGRAM

Sample Media	Type of Analysis	Collection Sites	Planned Collection Frequency	Planned Collection Dates
1. Airborne Particulate (AP)	(a) Gross Beta Gamma Scan (Special)	Nittrin Clinton Sikkema Farm Erie Hillsdale Saddle Club Dairy	(a) Weekly	(a) N/A
	(b) Gross Alpha	Port Byron Bettendorf Princeton Utica Ridge Rd. DeWitt Hanson's Boat Dock Low Moor On-Site Stations	(b) Monthly	(b) N/A
2. Airbourne I-131 Screen (I) (in addition to airbourne particulate)	I-131	Same As 1. Above	Bi-Weekly	N/A
3. Thermo-luminescent Dosimeters (TLD)	Gamma Radiation	Same As 1. Above Plus Cribhouse	One set quarterly	N/A
4. Milk (M)	(a) Gamma Scan	Milk Producers within 10 miles of the plants.	(a) Weekly from April to Sept. Monthly from Oct. to March	(a) N/A
	(b) Sr-89, 90 elemental calcium	Same As 4. (a) Above	(b) Monthly	(b) N/A

SAMPLE COLLECTION AND ANALYSIS
 QUAD CITIES NUCLEAR POWER STATION - ENVIRONMENTAL MONITORING PROGRAM

Sample Media	Type of Analysis	Collection Sites	Planned Collection Frequency	Planned Collection Dates
5. Grass (G)	Gross Beta Sr-89, 90 Gamma Scan	Same As 4. Above	Monthly	April-Sept.
6. Cattle Feed (CF)	Gross Beta Sr-89, 90 Gamma Scan	Same As 4. Above	Monthly	Oct.-March
7. Rain Water (Fallout) (Airbourne Solids & Liquids) (FW)	Gross Beta Gamma Scan (Special)	Saddle Club Dairy Sikkema Farm On-Site Station #1	Monthly	N/A
8. Well Water (WW)	Gross Alpha Gross Beta Gamma Scan (Special)	Four wells within several miles radius of the Station. On-Site (Drinking Fountain)	Quarterly " " " Monthly	N/A
9. Vegetation (V)	(a) Gross Beta Gamma Scan	Same As 1. Above	Annually	(a) At end of growing season
	(b) Sr-89, 90	On-Site Stations #1, #2, #3	Annually	(b) At end of growing season

TABLE 4.8.1 (cont'd)

TABLE 4.8.1

SAMPLE COLLECTION AND ANALYSIS
QUAD CITIES NUCLEAR POWER STATION - ENVIROMENTAL MONITORING PROGRAM

Sample Media	Type of Analysis	Collection Sites	Planned Collection Frequency	Planned Collection Dates
10. Surface (River) Water (SW)	(a) Gross Alpha Gross Beta Gamma Scan (Special)	QC Inlet Canal QC Discharge Canal Mississippi River at East Moline Water Works Mississippi River at Davenport Water Works	Weekly Composite	(a) N/A
	(b) Sr-89, 90	Same As 10(a) Above	Semi-Annually (A composite of weekly samples)	(b) N/A
	(c) Tritium	Same As 10(a) Above	Quarterly (from weekly composites)	(c) N/A
11. Bottom Sediment (SI)	Gross Beta Gamma Scan Sr-89, 90	QC Inlet Canal QC Discharge Canal Mississippi River Near Lock & Dam #14	Semi-Annually	N/A
12. Periphyton (SL)	Gross Beta Gamma Scan	Same As 11.Above	Semi-Annually	N/A

TABLE 4.8.1 (cont'd)

TABLE 4.8.1

SAMPLE COLLECTION AND ANALYSIS
 QUAD CITIES NUCLEAR POWER STATION - ENVIRONMENTAL MONITORING PROGRAM

Sample Media	Type of Analysis	Collection Sites	Planned Collection Frequency	Planned Collection Dates
13. Soil (SO)	Gross Beta Gamma Scan Sr-89, 90	Clinton On-Site Station #1	Annually	Summer
14. Vegetables (P)	Gross Beta Sr-89, 90 Gamma Scan	(a) Vegetables from area within 10 mile radius of QC Station (b) Vegetables from area within 10 to 25 mile radial distance of QC Station	(a) Annually (b) Annually	(a) During growing season (b) During growing season
15. Fish (F) (one portion fileted, the other analyzed as whole fish)	Gross Beta Gamma Scan Sr-89, 90	Pool #14 (On Mississippi River)	Three times yearly	N/A
16. Benthic Animals (BA)	Gross Beta Gamma Scan	Downstream in Pool #14	Semi-Annual	Spring, Fall
17. Aquatic Plants (APL)	Gross Beta Gamma Scan	Downstream in Pool #14	Semi-Annual	Spring, Fall
18. Rabbits (R)	Gross Beta Gamma Scan	On-Site	Semi-Annual If Available	N/A

TABLE 4.8.1 (cont'd)

SAMPLING SITE CODE AND ASSOCIATED SAMPLE TYPE

<u>Site</u>	<u>Code</u>	<u>Sample Type</u>
Nitrin	NI	AP, I, V, TLD
Utica Ridge Road	UR	AP, I, V, TLD
Clinton	CL	AP, I, V, TLD, SO
Erie	ER	AP, I, V, TLD
Hillsdale	HI	AP, I, V, TLD
Saddle Club Dairy	SC	AP, I, M, TLD, G, FW, CF
Port Byron	PB	AP, I, V, TLD
Bettendorf	BE	AP, I, V, TLD
Princeton	PR	AP, I, V, TLD
Sikklema Farm	SF	AP, I, FW, TLD
DeWitt	DW	AP, I, V, TLD
Hanson's Boat Dock	HL	AP, I, V, TLD
Low Moor	LM	AP, I, V, TLD
On-Site Station #1	#1	AP, I, V, TLD, SO, FW
On-Site Station #2	#2	AP, I, V, TLD
On-Site Station #3	#3	AP, I, V, TLD
Cribhouse	#4	TLD
Crampton House	CH	WW
On-Site Wells	GH	WW
Singley	SG	WW
Greco House	GR	WW
Caleo	CA	WW
Davenport Fish Market	DF	F
Inlet Canal	RI	SW, SI, SL, BA, APL
Discharge Canal	RD	SW, SI, SL, BA, APL
East Moline Water Works	EMWW	SW
Davenport Water Works	DWW	SW
Lock and Dam No. 14	L14	SI, SL, BA, APL
Hansen Farm	HF	P
Hansen's Dairy	HD	M, G, CF
On-Site Samples	OS	R

TABLE 4.8.1 (cont'd)SAMPLE CODING SYSTEMSAMPLE TYPE CODESAMPLING TYPECODE

Airbourne Particulate
Airbourne I-131 Screen
Milk
Grass
Cattle Feed
Rain Water (Fallout)
Well Water
Vegetation
Surface Water (River)
Bottom Sediment (Silt)
Periphyton
Vegetables
Fish
Thermoluminescent Dosimeters
Benthic Animals
Aquatic Plants
Rabbits

AP
I
M
G
CF
FW
WW
V
SW
SI
SL
P
F
TLD
BA
APL
R

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NOS. 50-254 and 50-265

COMMONWEALTH EDISON COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

Notice is hereby given that the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 28 and 26 to Facility Operating License Nos. DPR-29 and DPR-30, respectively, issued to Commonwealth Edison Company which revised Technical Specifications for operation of the Quad Cities Station, Units 1 and 2, located in Rock Island County, Illinois. The amendments are effective as of the date of issuance.

The amendments permit changes in the collection sites and sampling frequency for the environmental monitoring program.

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

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR §1.5(d)(4) environmental statements, negative declarations or environmental impact appraisals need not be prepared in connection with issuance of these amendments.

OFFICE ➤						
SURNAME ➤						
DATE ➤						

For further details with respect to this action, see (1) the application for amendments dated September 17, 1975, and (2) Amendment Nos. 28 and 26 to License Nos. DPR-29 and DPR-30. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C. and at the Moline Public Library, 504-17th Street, Moline, Illinois.

A copy of items (2) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 1st day of July 1976.

FOR THE NUCLEAR REGULATORY COMMISSION

S/

Dennis L. Ziemann, Chief
Operating Reactors Branch 2
Division of Operating Reactors

OFFICE ➤	DSE:EP-3	DSE:EP-3	DSE:ADEP	ORB-2 <i>put</i>	OELD <i>W</i>	ORB-2 <i>DBZ</i>
SURNAME ➤	MDuncan:aj DScaletti	WRegan	VMoore	PO'Connor	<i>W</i>	DZiemann
DATE ➤	4/12/76 <i>ES</i>	4/14/76	4/14/76	4/15/76	4/19/76	6/30/76



Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

September 17, 1975

Mr. Benard C. Rusche, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Quad-Cities Station Units 1 and 2
Proposed Amendment to Facility Operating
Licenses DPR-29 and DPR-30
NRC Docket Nos. 50-254 and 50-265

Dear Mr. Rusche:

Pursuant to 10 CFR 50.59, Commonwealth Edison Company requests amendments to facility licenses DPR-29 and DPR-30. The purpose of the amendments is to update Appendix A, Table 4.8.1, Environmental Sampling. The enclosed amendments are included on pages 186 through 191.

The proposed changes include:

1. Eliminate ion chambers because of many factors which limit their usefulness as a dosimeter. TLD's will be used to monitor environmental gamma radiation.
2. Eliminate annual TLD because of fading. Quarterly TLD's perform the same function.
3. Change collection point of milk to milk producers within ten miles of the plant to avoid changes to license as producers change.
4. Change well water collection point to four (4) wells within several miles of the plant to avoid changes to license as owners change.
5. Change airborne I¹³¹ to biweekly in order to increase coverage and crud sensitivity of the program.
6. Make vegetable collection points less specific in order to permit a wider choice of vegetable. Some farms specified are either out of business or do not produce vegetables on a regular basis.

10088

Mr. Benard C. Rusche
Page 2
September 17, 1975

7. Eliminate from Pool 14 water fowl whose migratory habits diminish their usefulness.

8. Add new item, rabbits, because they provide a good indication of local accumulation of radioactivity.

9. Delete gross alpha special analysis because of the absence of alpha nuclides in airborne and liquid effluents other than in small quantities.

10. Change collection frequency of periphyton from quarterly to semi-annually because experience has shown it to be unavailable in cold months.

11. Change planned collection frequency for vegetables from three times annually to annually so collections coincide with the availability of vegetables during growing season.

Three (3) signed originals and 37 copies are submitted for your approval.

Very truly yours,



R. L. Bolger
Assistant Vice President

SUBSCRIBED and SWORN to
before me this 17th day
of September, 1975.

Nancy M. Hellingwater
Notary Public