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Amendment No. 1

License No. DPR-43

MAY 21 1974

Docket No. 50-305

Wisconsin Public Service Corporation

Attn: Mr. E. W. James

Senior Vice President

P.O. Box 1200

Green Bay, Wisconsin 54305

Gentlemen:

Reference is made to your letter to Mr. O'Leary dated April 9, 1974, submitting a request for changes to the Technical Specifications for the Kewaunee Nuclear Power Plant.

The staff has evaluated the proposed changes and has concluded that they do not involve significant hazards considerations and that there is reasonable assurance that the health and safety of the public will not be endangered. A copy of the staff evaluation of the proposed changes is enclosed.

Accordingly, your request for changes to the Technical Specifications for Kewaunee is approved. Amendment No. 1 of the license and copies of replacement pages 1, 2, 4, and 6 of Table TS 4.10-1, implementing these changes are enclosed.

A copy of a related notice which has been forwarded to the Office of the Federal Register for filing and publication also is enclosed.

Sincerely,

Original signed by

Voss A. Moore

Voss A. Moore, Assistant Director for Light Water Reactors Group 2 Directorate of Licensing

Enclosures:
As stated

CCS:	LWR 2-2	LWR 2-2	OGC	EP	AD: LWR
OFFICE: See page 2	SERVICE/ LCrocker	KKniel	PSeiffert	DMuller	Moore
SURNAME >	5/13/74	5/16/74	5/20/74	5/17/74	5/20/74
DATE >					

C.P. LB

Wisconsin Public Service Corporation

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Mr. Arden Koehler
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Mr. Donald L. Quistorff
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Environmental Protection Agency
4th and M Streets, S. W.
Washington, D. C. 20460

OFFICE ➤						
SURNAME ➤						
DATE ➤						

WISCONSIN PUBLIC SERVICE CORPORATION

WISCONSIN POWER AND LIGHT COMPANY

MADISON GAS AND ELECTRIC COMPANY

DOCKET NO. 50-305

KEWAUNEE NUCLEAR POWER PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 1
License No. DPR-43

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for amendment by Wisconsin Public Service Corporation dated April 9, 1974, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended, and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the license, 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. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.
2. Accordingly, Paragraph 2.C.(2) of Facility License No. DPR-43 is hereby amended to read as follows:

"(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, attached to Facility Operating License No. DPR-43 are revised as indicated in the attachment to this license amendment. - The Technical Specifications, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised."

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

FOR THE ATOMIC ENERGY COMMISSION



Voss A. Moore, Assistant Director
for Light Water Reactors Group 2
Directorate of Licensing

Attachment:
Change No. 3 to Appendix A
Technical Specifications

Date of Issuance:

MAY 21 1974 1

TABLE TS 4.10-1 (Page 1 of 6)

Operational Environmental Radiological Surveillance Program

Type of Sample	Location	Sampling Frequency	Type of Analysis	Frequency of Analysis	Reporting Units	Approximate Minimum Detectable Level	Comments
A. Airborne Particulates	K-1f	Weekly	Gross alpha	Weekly	pCi/m ³	4×10^{-4} pCi/m ³	On all samples
	K-2		Gross beta	Weekly	pCi/m ³		1×10^{-3} pCi/m ³
	K-7		Gamma Scan	Quarterly	pCi/m ³		Quarterly composite for each station
	K-8						
	K-15 K-16						
B. Airborne Iodine	Same as A	Bi-weekly	I-131	Bi-weekly	pCi/m ³	1×10^{-2} pCi/m ³	On all samples
C. Ambient ; Beta-Gamma	K-1f	Monthly	Gamma	Monthly	mR/month	1 mR	On all samples
	K-2 K-3 K-4 K-5 K-6 K-7 K-8 K-15 K-16						
1. Ion-chambers, (2 at each location)							
2. TLD (5 chips in each packet)	Same as C1	Quarterly Annually	Beta-Gamma	Quarterly	mrems/Q	10 mrem	On all samples
			Beta-Gamma	Annually	mrems/A		On all samples

TABLE TS 4.10-1 (Page 2 of 6)

Operational Environmental Radiological Surveillance Program

Type of Sample	Location	Sampling Frequency	Type of Analysis	Frequency of Analysis	Reporting Units	Approximate Minimum Detectable Level	Comments
D. Well Water	K-1h K-1g	Monthly	Gross alpha (TR) ^a	Monthly	pCi/l	0.16 pCi/l	On all samples
			Gross beta (TR)	Monthly	pCi/l	0.28 pCi/l	On all samples
	K-40		Monthly	pCi/l	3.4 pCi/l	On all samples	
	Tritium (actual level)		Quarterly	pCi/ml	0.005 pCi/ml	Quarterly composite on one well	
	Sr-89		Quarterly	pCi/l	0.6 pCi/l	Quarterly composite on one well	
	Sr-90		Quarterly	pCi/l	0.3 pCi/l	Quarterly composite on one well	
	Radium-226		--	pCi/l	0.3 pCi/l	Only on samples when alpha is >3 pCi/l	
	Gamma Scan	--	pCi/l	---	Only on samples when beta is >30 pCi/l		
	K-10 K-11 K-12 K-13	Quarterly	Gross alpha (TR)	Quarterly	pCi/l	0.16 pCi/l	On all samples
			Gross beta (TR)		pCi/l	0.28 pCi/l	On all samples
			K-40		pCi/l	3.4 pCi/l	On all samples
			Sr-89; Sr-90		pCi/l	0.6 pCi/l	Only on samples when beta is >10 pCi/l
					pCi/l	0.3 pCi/l	Only on samples when alpha is >3 pCi/l
			Radium-226		pCi/l	0.3 pCi/l	Only on samples when alpha is >3 pCi/l
Gamma Scan				pCi/l	---	Only on samples when beta is >30 pCi/l	
E. Precipitation	K-1f	Monthly	Tritium	Monthly	pCi/ml	0.005 pCi/ml	On all samples
F. Milk	K-3 K-4	Weekly	I-131	Weekly*	pCi/l	0.5 pCi/l	On all samples
	Sr-89	Monthly	pCi/l	0.6 pCi/l	Monthly composite		
	Sr-90	Monthly	pCi/l	0.3 pCi/l	Monthly composite		
	Stable Potassium	Monthly	g/l	0.04 g/l	Monthly composite		
	Stable Calcium	Monthly	g/l	0.01 g/l	Monthly composite		

* - Weekly during grazing reason - monthly at all other times

TABLE TS 4.10-1 (Page 4 of 6)

Operational Environmental Radiological Surveillance Program

Type of Sample	Location	Sampling Frequency	Type of Analysis	Frequency of Analysis	Reporting Units	Approximate Minimum Detectable Level	Comments	
K. Soil	K-1f	Semi-annually	Gross alpha	Semi-annually	pCi/g	1.6 pCi/g dry wt.	2nd and 3rd quarters	
	K-3		Gross beta	Semi-annually	pCi/g	1.4 pCi/g dry wt.	2nd and 3rd quarters	
	K-4		Sr-89	Semi-annually	pCi/g	0.2 pCi/g dry wt.	2nd and 3rd quarters	
	K-5		Sr-90	Semi-annually	pCi/g	0.1 pCi/g dry wt.	2nd and 3rd quarters	
	K-6		Gamma Scan	Semi-annually	pCi/g	0.01 pCi/g dry wt. (137 Cs)	2nd and 3rd quarters	
	K-12							
	K-19							
L. Surface Water	K-1a	Monthly	Gross alpha, (SS,DS) ^b	Monthly	pCi/l	0.16 pCi/l	On all samples	
	K-1b		Gross beta (SS,DS) ^b	Monthly	pCi/l	0.38 pCi/l	On all samples	
	K-1d		K-40	Monthly	pCi/l	3.4 pCi/l	On all samples	
	K-1e		Tritium	Monthly	pCi/ml	0.22 pCi/ml	On K-1d, K-9, and K-14 only	
	K-9		Sr-89	Quarterly	pCi/l	0.6 pCi/l	On quarterly composite from K-1d, K-9, and K-14	
	K-14		Sr-90	Quarterly	pCi/l	0.3 pCi/l	On quarterly composite from K-1d, K-9, and K-14	
			Radium-226	--	pCi/l	0.3 pCi/l	Only on samples when alpha is > 3 pCi/l in dissolved solids on K-1d, K-9, and K-14 only	
			Gamma Scan	--	pCi/l	3.1 pCi/l (137 Cs)	Only on samples when beta is > 30 pCi/l in dissolved solids on K-1d, K-9, and K-14 only	

TABLE TS 4.10-1 (Page 6 of 6)

Operational Environmental Radiological Surveillance Program

Type of Sample	Location	Sampling Frequency	Type of Analysis	Frequency of Analysis	Reporting Units	Approximate Minimum Detectable Level	Comments
O. Periphyton (cont.)			Gamma Scan	Semi-Annually	pCi/g	0.01 pCi/g wet wt. (137 Cs)	2nd and 3rd quarters if available in sufficient quantity
P. Fish	K-1d	3 times per year	Gross alpha	3 times per year	pCi/g	1.6 pCi/g ash wt.	Flesh and bones, 2nd, 3rd, and 4th quarters
			Gross beta	3 times per year	pCi/g	1.4 pCi/g ash wt.	Flesh and bones, 2nd, 3rd, and 4th quarters
			Sr-89	3 times per year	pCi/g	0.2 pCi/g ash wt.	Bones only, 2nd, 3rd, and 4th quarters
			Sr-90	3 times per year	pCi/g	0.1 pCi/g ash wt.	Bones only, 2nd, 3rd, and 4th quarters
			Gamma Scan	3 times per year	pCi/g	0.2 pCi/g ash wt. (137 Cs)	Flesh only, 2nd, 3rd, and 4th quarters
Q. Domestic Meat	Four locations in the vicinity of the plant to be selected	Annually	Gross alpha Gross beta Gamma Scan	Annually Annually Annually	pCi/g pCi/g pCi/g	Same as fish	Flesh only, 3rd quarter Flesh only, 3rd quarter Flesh only, 3rd quarter

^a TR - Total residue

^b SS - Suspended solids
DS - Dissolved solids

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-305

WISCONSIN PUBLIC SERVICE CORPORATION

WISCONSIN POWER AND LIGHT COMPANY

MADISON GAS AND ELECTRIC COMPANY

NOTICE OF ISSUANCE OF FACILITY LICENSE AMENDMENT

Notice is hereby given that the U.S. Atomic Energy Commission (the Commission) has issued Amendment No. 1 to Facility Operating License No. DPR-43, issued to Wisconsin Public Service Corporation, Wisconsin Power and Light Company, and Madison Gas and Electric Company, which revised Technical Specifications for operation of the Kewaunee Nuclear Power Plant, located in Kewaunee County, Wisconsin. The amendment is effective as of its date of issuance.

The amendment permits changes of an editorial nature to Table TS 4.10-1 of the Technical Specifications pertaining to the environmental radiological monitoring program.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations, and 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 amendment.

For further details with respect to this action, see (1) the request for change to the Technical Specifications dated April 9, 1974, (2) Amendment No. 1 to License No. DPR-43, with attachments, and (3) the Commission's related Safety Evaluation dated May 15, 1974. All of these are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C., and at the Kewaunee County Library, Kewaunee, Wisconsin.

A copy of items (2) and (3) may be obtained upon request addressed to the United States Atomic Energy Commission, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing - Regulation.

Dated at Bethesda, Maryland, this 21ST day of May, 1974.

FOR THE ATOMIC ENERGY COMMISSION



Karl Kniel, Chief
Light Water Reactors Branch 2-2
Directorate of Licensing

SAFETY EVALUATION BY THE DIRECTORATE OF LICENSING
SUPPORTING AMENDMENT NO. 1 TO DPR-43
CHANGE NO. 3 TO APPENDIX A OF TECHNICAL SPECIFICATIONS
WISCONSIN PUBLIC SERVICE CORPORATION
WISCONSIN POWER AND LIGHT COMPANY
MADISON GAS AND ELECTRIC COMPANY
KEWAUNEE NUCLEAR POWER PLANT
DOCKET NO. 50-305

Introduction

By letter dated April 9, 1974, the licensee proposed certain changes to Table TS 4.10-1 of the Technical Specifications. These changes, which are primarily of an editorial nature and which allow for consistency in the environmental radiological sampling program, are as follows:

Table TS 4.10-1, page 1

Sample Type A - Airborne particulates

The existing specification provides that weekly samples will be taken at station K-1f and analyzed on a weekly basis. The comments state "Every 4th week". The licensee proposes to change the comments to read "On all samples" to be consistent with the sampling and analysis frequency.

Table TS 4.10-1, page 2

Sample Type F - Milk

For sample station K-3, the licensee proposes to insert "On all samples" under comments. For sample station K-19, the licensee proposes to change the frequency of analysis from semi-monthly to monthly, to correspond to the sampling frequency. Under comments, the licensee proposes to change the wording such that analyses are performed on "Monthly composite" samples.

Table TS 4.10-1, page 4

Sample Type L - Surface Water

Under Type of analysis, the licensee proposes to correct the typographical error from "Radium-266" to "Radium-226".

Table TS 4.10-1, page 6

Sample Type O - Periphyton

The licensee proposes to change the words "3/year" under Frequency of Analysis to "Semi-annually" to correspond to the Comments of "2nd and 3rd quarters if available in sufficient quantity".

Discussion

The staff has reviewed these proposed changes to the Technical Specifications and finds that they are indeed editorial in nature, or are to improve the consistency of the environmental radiological monitoring program. Specifically:

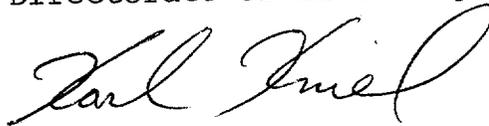
- a. The change to page 1 will correct the inconsistency of sampling and analyzing on a weekly basis while the comments state "Every 4th week". The original intent was to perform the analysis "On all samples".
- b. The proposed change to page 2 will bring the milk sampling program onto a consistent basis where weekly iodine-131 samples will be taken and analyzed for two stations, while monthly composite samples will be obtained and analyzed from the remaining four stations.
- c. The proposed change to page 4 corrects an obvious typographical error.
- d. The proposed change to page 6 provides for consistency in a requirement for a semi-annual gamma scan of periphyton samples to correspond to other analysis frequencies as stated on page 5.

Evaluation

On the basis of our review of the proposed changes to the Technical Specifications, we conclude that they do not involve significant hazards considerations and that there is reasonable assurance that the health and safety of the public will not be endangered.



L. P. Crocker, Project Manager
Light Water Reactors Branch 2-2
Directorate of Licensing



Karl Kniel, Chief
Light Water Reactors Branch 2-2
Directorate of Licensing

May 15, 1974