DAIRYLAND COOPERATIVE . P.O. BOX 817 . 2615 EAST AV SOUTH . LA CROSSE WISCONSIN 54601 (608) 788-4000

June 2, 1980

In reply, please refer to LAC-6961

DOCKET NO. 50-409

Director of Nuclear Reactor Regulation ATTN: Mr. Dennis L. Ziemann, Chief Operating Reactors Branch #2 Division of Operating Reactors U. S. Nuclear Regulatory Commission Washington, D. C. 20555

SUBJECT: DAIRYLAND POWER COOPERATIVE LA CROSSE BOILING WATER REACTOR (LACBWR) PROVISIONAL OPERATING LICENSE NO. DPR-45 HEALTH SYSTEMS DIVISION, EQUIFAX CONTRACT (NO. NRC-01-79-010) - EPIDEMIOLOGIC STUDIES

Reference: (1) NRC Letter, Ziemann to Linder, dated March 4, 1980.

Gentlemen:

In response to your letter, Reference 1, enclosed is the completed questionnaire containing information relevant to epidemiologic studies to determine the feasibility of performing such a study on the health effects of exposure to low-level ionizing radiation.

If you have any questions regarding this response, please contact the LACBWR Health & Safety Supervisor, Leo J. Krajewski, at (608)-689-2331.

Very truly yours,

DAIRYLAND POWER COOPERATIVE

rent finder

Frank Linder, General Manager

FL:LJK:af

Enclosure

cc: J. Keppler, Reg. Dir., NRC-DRO III

La Crosse Boiling Water Reactor Facility (LACBWR)

Hame of Respondent	Leo J.	Kra	jewski
Department Health	and Sa	fety	Dept.
Title of Record A	dminist	rativ	ve Records

FORM OF RECORD

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FIELD VISIT - OCCUPATIONAL

. . .

A. Individual Identification (Personnel and Medical Depts.)

2.

1. Please indicate which of the following are part of an individual's record and the form in which they are maintained.

	Yes No	Paper	Microfilm/ Piche	Magnetic Tape	On Line Data
Name					
Last	X	X			
First		X			
Middle Initial	<u>X</u>	X		-	-
Maiden Name	X				-
Address	X	X			
Telephone	X	X			
Social Security Number	X	X			
Employee or ID Number	X	X			
Date of Birth	X	X			
Place of Birth	X	X X X X X			
Sex	X	-			
Race	X				
Marital Status	X			State of the Owner	
Military Service	X	X		=	
Next of Kin	X	X			-
Father's Last Name	X				
Mother's Maiden Name	X				
Present Occupation or Job Ti		X X X			
Present Employer	X	X			
Date of Death	X	X			
How far back do these record	s go? 1940				
Are inactive records maintai	A AN A A	No			
If yes, in what form? (pleas	e checki Wh	and the second sec	active recor	ds located?	(please
It yes, in what totar (preas		eck)			
Paper X		On site	X		
Microfilm/fiche		Off sit	• X		
Magnetic Tape		Destroy	rt X		
				s? Termina	

•

4.	Have there	been any major	changes in you	ir record keeping	Yes	No
	procedures	in past years?				

If so, how do prior records differ from the format indicated above?

Can a complete roster of all those employed at any time in the facility be obtained?	Yes X No
Can you estimate roughly how many people are employed full time in the facility now?	70
How many employees would you estimate have ever been employed full time at this facility?	300
What proportion of those employed are monitored for radiation exposure?	99%
What proportion of those monitored are exposed to over: a) 100 mrem/yr.	95%
b) 200 mrem/yr.	90%

10. Please indicate which of the following are included in an individual's record and the form in which they are maintained.

			form of Rec	orđ	
	Yes No	Paper	Micro film/		On Line
			fiche	Tape	Data
Date(s) of Hiring	х	Х			A
Date(s) of Termination	_X	X			
Past Job Titles	<u> </u>	<u>X</u>			
Notes on Pre-Employment Exam	_X	X			
Regular Medical Exams	<u>×</u>	_X			-
Exit Exam	X				
Unusual Medical Exams	X				
Lab Tests	X_				
Work Restrictions or Disability	<u>X</u>	X			
Workers Compensation Claims	<u>x</u>	X		-	
Health Insurance Claims	X				
Pension Benefits	X	X		-	-
Records of Death	X	X			
	1040				

11. How far back do these records go? 1940

OCCUPATIONAL	FIELD	VISIT
CORP. LET T OFFICE	5 4 5 4 4 4	

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aper X	check) On Site	x
icro Film/Fiche	Off Site	X
lagnetic Tape	Destroyed	X
m Line Data	If Destroyed, which years? Those terminated prior	
ave there been any major cha procedures in past years?	nges in your record keeping Yes_	No×
	iffer from the format indicated	
	iffer from the format indicated	
	iffer from the format indicated	
	iffer from the format indicated	
bove?		
bove?	are required before receiving	None
bove? tow many years of employment menefits? Nave any epidemiologic studie	are required before receiving	v
low many years of employment enefits? Nave any epidemiologic studie een carried out at the facil	are required before receiving s of radiation health effects Yes_ ity before?	
low many years of employment enefits? Nave any epidemiologic studie een carried out at the facil	are required before receiving	

Employee and supervisor have access. All others only through legal petition.

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La Crosse Boiling Water Reactor **Facilty** (LACBWR)

Name	of	Resp	onde	nt	Leo	Kra	ijews	ski
Depar	the	nt	Heal	lth	and	Saf	ety	Dept.
Title								

FIELD VISIT - OCCUPATIONAL

B. Exposure Data

2.

3.

Magnetic Tape

On Line Data

 Please indicate which of the following part of an individual's record and the form in which they are maintained.

FORM OF RECORD

	Yes No	Paper	Microfilm/ Fiche	Magnetic Tape	On Line Data
Name					
Last	х	¥			
First		X			
Middle Initial	X	X	Contraction open		
Maiden Name	X	and the state of t	des the second descent de		
Address	X		and allowing the second		
Telephone	X				=
Social Security Number	X	X	-	and the second second	
Employee or ID Number	X	X	differential process		
Date of Birth	X	X			
Place of Birth	X		art de la constantin de la	-	
Sex	X				
Race	X				
Marital Status	X		Contraction of the local division of the loc		
Military Service	- <u>x</u>		A DESCRIPTION OF THE OWNER OF THE		
Next of Kin	X				
Father's Last Name	X	X			=
Mother's Maiden Name	X		and the second second		
Present Occupation or Job Title	X	X			
Present Employer	X	X	and the second se	Contraction and Contractions	
Date of Death	X		- Contraction of the local division of the l		-
How far back do these records go?	1965				
Are inactive records maintained?	Yes X	No			
If yes, in what form? (please che	ick) Whe		ctive record	s located?	(please
Paper X		On site	X		
Microfilm/fiche		Off site	and the strength of the streng		

Destroyed

If destroyed, which years?

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an	you roughly estin	nate the numonitored	umber of this year?	,			
	you roughly estin				employees	monitored	300
ind	ce the facility of	pened?					
lea	ase indicate the	type of do	simeters a	and procee	lures curre	ntly used at	this facil
nd	answer the quest you monitor neut	ions in the ron dose se	e table. eparately	from Y, I	, and x-ra	ys please fil	ll out the
ep	arate second shee	t as well.)				
		•.	Method	of Dosim	etry		
		Film	TLD	Pocket	and the second	Whole Body	Other
		Yes No	Yes No	Yes No	Yes No	Yes No	Yes No
۱.	Which of these	Until	Since 19 7 2		Until 1978		
	methods are used?	1972 ×	x	<u>×</u>	x	<u>×</u>	
٥.	Which year did this use begin?	1967	1972	1966	1967	1968	
с.	Are records of			1000			
	dose kept for each employee?	×	×	×		×	
4.	If not, are any records kept of						
	their exposures						
	(e.g. an exposur log)? If yes,	e					
	please fill out Part C-Exposure						
	Log.						
	How frequently a	re					

. *

	Ti	lm	TLD		Pocket	Rios	ssay	Whol	e Body	Other
	Yes	No	Yes	No	Yes No	Yes	No	Tes	No	Tea No
Are these read in	n-	v		v	v		v			
house?		_		~	×	-	<u>^</u>			
the company or	her									
individual respon	n-									
sible.	Charles Charles Charles	lauer	Eber	line		Eber	line	-	-	
For quality cont:										
do you ever subm.	it									
dosimeters or										
samples exposed	to									
a know level?	×	-	X	-	<u> </u>		X	-	<u>×</u>	
Are quality cont			Y		×		v		v	
records kept?	ALC: NOT THE OWNER				<u> </u>	-			<u>^</u>	
Approximately wh proportion of fu										
time employees a		11	Since							
monitored by each	197	2	1972							
method?	100%		95%		80%	20%		90%		
me chool		-							-	
we there been any	naior	chan	des fr	n voi	ir dosime	+++				
dosimetric proced			-	-					Yes	No X
yes, please note i		-	-							and the second
le above.					n					

7.A. Neutron Dosimetry

8.

Method of Dosimetry

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		Pilm Yes No	TLD Yes No	Pocket Yes No	Other Time/Doserate Yes No
a.	Which of these methods are	Until 1972			
	used?	Х	×	×	×
b.	Which year did		and the second		
	this use begin?	967			1972
c.	Are records of dose kept for		1.00		
	each employee?	<u>×</u>	X	X	<u>X</u>

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7.A. Neutron Dosimetry (cont.)

8.1

		a second line free	
Make		Basi	netry
P102 C.O.	OC OI	DOBT	merry

		Film Yes No	TLD Yes No	Pocket Yes No	Other Time/Dosera Yes No	te
•	If not, are any records kept of their exposures (e.g. an exposure log)? If yes, please fill out Part C-Exposure					
	Log.					
•	How frequently are these read?	Monthly			Quarterly	
•	Are these read in- house?	X			x	
•	If not, name either the company or individual respon- sible.	: Landauer				
•	For quality control do you ever submit dosimeters or					
	samples exposed to	Y				
	a know level? Are quality contro	,^				
•	records kept?	* x				
•	Approximately what proportion of full time employees are				And a second second	
	monitored by each method?	80%			100%	
	ve there been any m dosimetric procedu			neutron dosime	Yes X	No
01	COSTMELLTO PLOCEDO	res ru bas	c fears.			
		xposure vi	a pocket do	simeter and TL	D have been attempt	ed with p
	results.	TLD use f	for neutron	will continue	to be studied.	

9. Is there a standard location for wearing the dosimeter? (e.g. at the neck, at the belt, inside apron, etc.) If yes, please note

Yes No X

10. We would like to know if you have any other recorded information about radiation exposure, please indicate if the following information is recorded for individual employees, and, if so, where and in what media.

1.0				C		C	LOCATION		
		Yes	No	Employees Record	Paper	Separate Fi Microfilm/ Fiche		On Line	
Data	L.					1.0000			
ı.	Dosimeter reading								
	known to be in-			1 1					
	accurate (e.g. badge								
	left in radiation are during a procedure)	a Y		X	х				
	Radiation accident			<u> </u>					
	or incident.		х						
	Annual external								
÷.,	exposure, present								
	year	ż		X	Х				
	Annual external					Congrid and the second			
	exposure, past years			1					
	by year	Х		Х	Х				
	Annual internal				Contract Captor				
	exposure, present			1 1					
	year		X						
	Annual internal								
	exposure, past years		v						
	by year		X						
	Cumulative lifetime								
	external exposure	<u>X</u>	_	<u> </u>	_X	-			
	Cumulative lifetime		~						
	internal exposure	-	X					-	
•	Previous occupational	v			×				
	radiation exposure Medical radiation	X		<u> </u>	<u></u> X			-	
•			×						
	exposures		X						
•	Exposure to toxic chemicals		х						
	If yes, which ones?		-		-				
	re les, which ones?				1. S. 1997				

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11.	Do the cumulative external dose measurements include neutron dose?	YesX	. No
12.	Is there some exposure level below which personnel are not monitored? If yes, what is that level?	Tes	NCX
13.	How are exposures at "less than minimum detectable levels" reported? (please check) As equal to the minimum detectable level" As "less than minimum detectable level" As zero Other (specify)		
14.	Is there an industrial hygiene group in the facility? If yes, whom may we contact?	Yes	<u>No X</u>
15.	Do industrial hygiene records exist? If yes, which years do they cover?	Tes	<u>No X</u>
16.	What is the procedure for obtaining access to employee records? Request to Health & Safety Supervisor requirement.	by employee or	legal

B-6

Facility
Name of Respondent
Department
Title of Record

FIELD VISIT

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C. Exposure Log

2.

3.

1.1

 Please indicate which of the following are part of an individual's record and the form in which they are maintained.

	FORM OF RECORD				
	Yes No	Paper	Microfilm/	Magnetic	On Line
			Fiche	Tape	Data
ame					
Last					
First					
Middle Initial				-	STREET, STREET,
Maiden Name		-			
Address			-		
Telephone					
Social Security Number					
Employee or ID Number Date of Birth					
Place of Birth					
Sex					
Race					
Date of Notation	Children and party				
	and the standard states are a				
How far back do these record	s go?				
Are inactive records maintai		No			
TE THECTAE TECOLOS WETHER					
to use in what form? interes	An owner of the owner	Antipation Antipation in	DACTIVA FACOR	te located?	(5)4888
If yes, in what form? (please	e check) W	here are i	nactive record	is located?	(please
	e check) W	There are in theck)		is located?	(please
Paper	e check) W	There are i theck) On sit	.e	is located?	(please
If yes, in what form? (pleas Paper Microfilm/fiche Magnetic Tape	e check) W	There are in theck)	te	is located?	(please

 Have there been any major changes in your record keeping procedures in past years?

17

Tes

No

. If so, how do prior records differ from the format indicated above?