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

P 8005140134

March 4, 1980

Mr. David P. Hoffman Nuclear Licensing Administrator Consumers Power Company 212 West Michigan Avenue Jackson, Michigan 49201

Dear Mr. Hoffman:

Health Systems Division, Equifax is under contract (NO. NRC-01-79-010) to the U. S. Nuclear Regulatory Commission (NRC), to study the feasibility of performing epidemiologic studies on the health effects of exposure to low-level ionizing radiation. This study was mandated by the Congress of the United States in Public Law 95-601. Information concerning data relevant to epidemiologic studies will be solicited by one or more individuals from Equifax's project team. Individuals who may be assigned to this task include:

Richard W. Clapp Samuel J. Covino, Jr. Nancy A. Dreyer Frederic H. Fahey

Emmy R. Friedlander James R. Latham Jeanne E. Loughlin Richard R. Monson James Watson

Social security numbers for these individuals are included for identification purposes.

Information provided will be used to determine the adequacy of data upon which to make conclusions on feasibility and recommendations to the Congress. Equifax is not itself performing an epidemiologic study. What is needed is the types and detail of the data recorded and information on how they are obtained. (See enclosed forms for the type of information required.) No personal identifiers are required. Questions will be asked to determine the quality of the data. Any information considered proprietary will be maintained confidential by Equifax.

Your cooperation in this effort will be appreciated, and will help ensure that the results are useful to the Congress, the industry, and the NRC.

If you have any questions, please call the NRC technical monitor, Mr. Robert Goldsmith (301-443-5860).

Sincerely.

Dennis L. Ziemann, Chief Operating Reactors Branch

Operating Reactors Branch #2 Division of Operating Reactors

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

cc w/enclosure: Mr. Paul A. Perry, Secretary Consumers Power Company 212 West Michigan Avenue Jackson, Michigan 49201

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Chairman County Board of Supervisors Charlevoix County Charlevoix, Michigan 49720

Office of the Governor (2) Room 1 - Capitol Building Lansing, Michigan 48913

Director, Technical Assessment Division Office of Radiation Programs (AW-459) U. S. Environmental Protection Agency Crystal Mall #2 Arlington, Virginia 20460 U. S. Environmental Protection
Agency
Federal Activities Branch
Region V Office
ATTN: EIS COORDINATOR
230 South Dearborn Street
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Herbert Grossman, Esq., Chairman Atomic Safety and Licensing Board U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Dr. Oscar H. Paris Atomic Safety and Licensing Board U. S. Nuclear Regulatory Commission Washington, D. C. 20555

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Big Rock Point Nuclear Power Plant ATTN: Mr. C. J. Hartman Plant Superintendent Charlevoix, Michigan 49720

Christa-Maria Route 2, Box 108C Charlevoix, Michigan 49720

Pacility		
	Respondent	
Departme		
Title of		

PIELD VISIT - OCCUPATIONAL

A. Individual Identification (Personnel and Medical Depts.)

2.

3.

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

FORM OF RECORD

			FORM OF REC	OKO	
	Yes No	Paper	Microfilm/ Fiche	Magnetic Tape	On Line Data
Name					
Last				Addition of the	
First			Kilding Trans		
Middle Initial					
Maiden Name .			F198		
Address					
Telephone					
Social Security Number					
Employee or ID Number			The second second		
Date of Birth					=
Place of Birth				=	
Sex			Name of the last		
Race				=	\equiv
Marital Status					
Military Service					\equiv
Next of Kin					
Father's Last Name					
Mother's Maiden Name					
Present Occupation or Job Title					
Present Employer				Lake 1	
Date of Death					
How far back do these records go?					
Are inactive records maintained?	Yes	No			
If yes, in what form? (please che	ck)	Where are incheck)	active record	is located?	(please
Paper		On site			
Microfilm/fiche		Off sit			
Magnetic Tape		Destroy	ed		
On Line Data		If destroyed	CONTRACTOR OF THE PARTY OF THE	5?	

. Have there been any major changes procedures in past years?	in your re	cord keepi	ng Yes		Mo
If so, how do prior records diffe indicated above?	r from the	format			
. Can a complete roster of all thos in the facility be obtained?	e employed	at any tim	e Yes		No
. Can you estimate roughly how many time in the facility now?	people are	employed	full _		
. How many employees would you esti employed full time at this facili		ver been	_		لسني
. What proportion of those employed radiation exposure?	are monito	ored for			
. What proportion of those monitore		sed to over			
	b)	200 mrem/	/r		
O. Please indicate which of the following in which they are maintained		included in	an individua	al's record	and the
			Form of Rec	ord	
	Yes No	Paper	Micro film/ fiche	Magnetic Tape	On Line Data
Date(s) of Hiring					
Date(s) of Termination Past Job Titles					
Notes on Pre-Employment Exam					
Regular Medical Exams			_		
Exit Exam Unusual Medical Exams					
Lab Tests					
Work Restrictions or Disability					
Workers Compensation Claims					
Health Insurance Claims Pension Benefits					
Records of Death					

2.	Are inactive records maintained? Yes	No		
	If yes, in what form? (please check)	Where are inactive check)	records loca	ted? (please
	Paper	On Site		
	Micro Film/Fiche	Off Site	Valoration in	
	Magnetic Tape	Destroyed		
	On Line Data	If Destroyed, which	years?	
3.	Have there been any major changes in you procedures in past years?	r record keeping	Yes	No
	If so, how do prior records differ from above?	the format indicated		
	How many years of employment are require benefits?	d before receiving		
	Have any epidemiologic studies of radiat been carried out at the facility before?		Yes	No
	If yes, please note by whom and briefly	describe each one.		
6.	What is the procedure for obtaining acce	ess to these records		

Pacilty_		
Name of I	lespond ant	
Departmen	t	
Title of	Record	

FIELD VISIT - OCCUPATIONAL

B. Exposure Data

2.

3.

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

FORM OF RECORD

			FORM OF REC	CORD	
	Yes No	Paper .	Microfilm/ Fiche	Magnetic Tape	On Line Data
Name					
Last	1				
Pirst .					
Middle Initial				=	\equiv
Maiden Name					
Address					
Telephone					
Social Security Number					
Employee or ID Number					
Date of Birth		ALCOHOLD !			\equiv
Place of Birth					
Sex		C. DESIGN			
Race					
Marital Status					
Military Service					
Next of Kin					
Pather's Last Name					
Mother's Maiden Name					
Present Occupation or Job Title					
Present Employer					
Date of Death		_			
How far back do these records go	?				
Are inactive records maintained?	Yes	No			
If yes, in what form? (please ch	eck) Who	-	active record	is located?	(please
Paper		On site			
Microfilm/fiche		Off sit	e		
Magnetic Tape		Destroy	STATE OF THE PERSON NAMED IN		
On Line Data	If		, which years	s?	

	there been any mandedures in past year		anges in yo	ar record	reching	Tes	No
	so, how do prior re icated above?	cords	differ from	the form	it		
	you roughly estimal time employees m			.7			
	you roughly estim		number of	full time	employees	monitored	
and (If	ase indicate the t answer the questi you monitor neutr arate second sheet	ons in on dose	the table.				
		٠.	Metho	d of Dosim	etry		
		Yes !		Pocket Yes No		Whole Body Yes No	OtherYes No
٠.	Which of these methods are used?						
	Which year did this use begin?						
c.	Are records of dose kept for each employee?						
d.	If not, are any records kept of their exposures (e.g. an exposure log)? If yes, please fill out Part C-Exposure Log.						

		Pi	lm	TLD	Pock	et Bio	assay	Whol	e Body	Other
		Yes	NO	Yes No	Yes	No Mas	No	Yes	No	Yes No
	Are these read in	-								
	house?		_				_	_	_	
	If not, name eith	er								
	the company or									
	individual respon	1-								
	sible.								_	
	Por quality contr									
	do you ever submi									
	dosimeters or									
	samples exposed t a know level?	.0								
	Are quality contr		-		-		_	_	-	
	records kept?	.01								
	Approximately wha	-	-		-		-	_	-	
	proportion of ful									
	time employees ar									
	monitored by each									
	method?									
		**	110.1				William .		100	
Have	there been any m	ajor	chang	es in y	our dos	imetry				
or d	osimetric procedu	res i	n pas	st years	?				Yes	No
	es, please note h	ow th	ey d	iffer fr	om					
the	above.									A LOCAL DESCRIPTION
N.	utron Dosimetry									
Ne	deton bosimetry			Metho	d of Do	simetry				
			ilm	TI		Pocket		Other	-	
		Yes	No	Yes	NO	Yes N	0	Ye	No No	
a. '	Which of these									
	methods are									
	used?									
b.	Which year did		-	_	_		_	_		
	this use begin?									
	mine and negative									
c.	Are records of	_						-		
	The state of the s						_			
	Are records of									

7.A. Neutron Dosimetry (cont.)

Method of Dosimetry

	Film Tes No	TLD Yes No	Yes Yes	No.	Other_ Yes	No
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?				_		
Are these read in- house?						
If not, name either the company or individual respon- sible.			_	_		
For quality control do you ever submit dosimeters or samples exposed to a know level?	•					
Are quality contro records kept?			_	_	_	
Approximately what proportion of full time employees are	1			_		
monitored by each method?				_		
ave there been any r r dosimetric procedu	major changures in pas	ges in your st years?	neutron	dosim	etry Ye	ıs
yes, please note !	now they di	iffer from				

•	Is there a standard lo the dosimeter? (e.g. a belt, inside apron, et If yes, please note	t the ne				··	Жо
10.	We would like to know exposure, please indicemployees, and, if so,	ate if t	he following	informat			
		Yes No	Record	Paper	Separate Promise Microfilm/		On Line Tape
Data							
•	Dosimeter reading known to be in- accurate (e.g. badge left in radiation area						
b.	during a procedure) Radiation accident or incident.			-			_
c.	Annual external exposure, present						
d.	Annual external exposure, past years				_		
•.	Annual internal exposure, present				-		
£.	Annual internal exposure, past years			_	_	-	_
g.	by year Cumulative lifetime					-	
	external exposure						
h.	Cumulative lifetime internal exposure						
i.	Previous occupational		The state of the s	_			
j.	radiation exposure Medical radiation			_			
٠.	exposures						
k.	Exposure to toxic						
	chemicals If yes, which ones?			-		-	
			TE CAN				

11.	measurements include neutron dose?	Yes	
12.	Is there some exposure level below which personnel are not monitored? If yes, what is that level?		
13.	How are exposures at "less than minimum detectate levels" reported? (please check) As equal to the minimum detectable level 'As "less than minimum detectable level 'As zero Other (specify)	bl•	
14.	Is there an industrial hygiene group in the facility? >= If yes, whom may we contact?	Yes	No
15.	Do industrial hygiene records exist? If yes, which years do they cover?		No
16.	What is the procedure for obtaining access to employee records?		

	Pacility	Responden			
	Departm				
	Title o	f Record_			
	PIELD	VISIT			
Exposure Log					
Please indicate which of the in which they are maintained		part of a	n individual's	record and	the form
			FORM OF REC	CORD	
	Yes No	Paper	Microfilm/ Fiche	Magnetic Tape	On Line Data
Name					
Last	12-1-12-1	Transit I		The said of the	
First :					
Middle Initial					
Maiden Name					Parent He
Address					
Telephone				THE RESERVE	
Social Security Number					
Employee or ID Number		30-30-00			
Date of Birth					
Place of Birth					
Sex					
Race					
Date of Notation					
Please note any other items	included in th	is log.			
				-	
		—			_
		_	-		-
How far back do these recor	ds go?				_
Are inactive records mainta		No			
If yes, in what form? (plea	se check) V		inactive recor	ds lowated?	(please
Paper		O si	te		
Microfilm/fiche		off s			
Magnetic Tape		Destr	oyed		(

EXPOSURE LOG

٠.	Have there been any major changes in your record keeping procedures in past years?	Yes	_ мо
	If so, how do prior records differ from the format indicated above?		