



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
March 4, 1980

P

8005140139

Docket No. 50-10

Mr. D. Louis Peoples
Director of Nuclear Licensing
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. Peoples:

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,

for *Thomas V. Wambach*
Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

Mr. D. Louis Peoples

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March 4, 1980

cc w/enclosure:
Isham, Lincoln & Beale
Counselors at Law
One First National Plaza, 42nd Floor
Chicago, Illinois 60603

Mr. B. B. Stephenson
Plant Superintendent
Dresden Nuclear Power Station
Rural Route #1
Morris, Illinois 60450

U. S. Nuclear Regulatory Commission
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P. O. Box 706
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Environmental Control Division
188 W. Randolph Street
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Morris Public Library
604 Liberty Street
Morris, Illinois 60451

Chairman
Board of Supervisors of
Grundy County
Grundy County Courthouse
Morris, Illinois 60451

Department of Public Health
ATTN: Chief, Division of
Nuclear Safety
535 West Jefferson
Springfield, Illinois 62761

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
Chicago, Illinois 60604

Mr. Frank Palmer
Division Manager, Nuclear Division
Commonwealth Edison Company
P. O. Box 767
Chicago, Illinois 60690

Facility _____
 Name of Respondent _____
 Department _____
 Title of Record _____

FIELD VISIT - OCCUPATIONAL

A. Individual Identification (Personnel and Medical Depts.)

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		Paper	Microfilm/ Fiche	Magnetic Tape	On Line Data
	Yes	No				
Name						
Last	___	___	___	___	___	___
First	___	___	___	___	___	___
Middle Initial	___	___	___	___	___	___
Maiden Name	___	___	___	___	___	___
Address	___	___	___	___	___	___
Telephone	___	___	___	___	___	___
Social Security Number	___	___	___	___	___	___
Employee or ID Number	___	___	___	___	___	___
Date of Birth	___	___	___	___	___	___
Place of Birth	___	___	___	___	___	___
Sex	___	___	___	___	___	___
Race	___	___	___	___	___	___
Marital Status	___	___	___	___	___	___
Military Service	___	___	___	___	___	___
Next of Kin	___	___	___	___	___	___
Father's Last Name	___	___	___	___	___	___
Mother's Maiden Name	___	___	___	___	___	___
Present Occupation or Job Title	___	___	___	___	___	___
Present Employer	___	___	___	___	___	___
Date of Death	___	___	___	___	___	___

2. How far back do these records go? _____

3. Are inactive records maintained? Yes _____ No _____
 If yes, in what form? (please check) _____ Where are inactive records located? (please check)
 Paper _____ On site _____
 Microfilm/fiche _____ Off site _____
 Magnetic Tape _____ Destroyed _____
 On Line Data _____ If destroyed, which years? _____

OCCUPATIONAL FIELD VISIT

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

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

5. Can a complete roster of all those employed at any time in the facility be obtained? Yes _____ No _____

6. Can you estimate roughly how many people are employed full time in the facility now? _____

7. How many employees would you estimate have ever been employed full time at this facility? _____

8. What proportion of those employed are monitored for radiation exposure? _____

9. What proportion of those monitored are exposed to over:
a) 100 mrem/yr. _____

- b) 200 mrem/yr. _____

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

	Yes	No	Paper	Form of Record		On Line Data
				Micro film/ fiche	Magnetic Tape	
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	___	___	___	___	___	___

11. How far back do these records go? _____

OCCUPATIONAL FIELD VISIT

12. Are inactive records maintained? Yes _____ No _____

If yes, in what form? (please check)

Where are inactive records located? (please check)

Paper _____
Micro Film/Fiche _____
Magnetic Tape _____
On Line Data _____

On Site _____
Off Site _____
Destroyed _____
If Destroyed, which years?

13. Have there been any major changes in your record keeping procedures in past years? Yes _____ No _____

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

14. How many years of employment are required before receiving benefits? _____

15. Have any epidemiologic studies of radiation health effects been carried out at the facility before? Yes _____ No _____

If yes, please note by whom and briefly describe each one.

16. What is the procedure for obtaining access to these records?

Facility _____
 Name of Respondent _____
 Department _____
 Title of Record _____

FIELD VISIT - OCCUPATIONAL

B. Exposure Data

1. 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	_____	_____	_____	_____	_____	_____
First	_____	_____	_____	_____	_____	_____
Middle Initial	_____	_____	_____	_____	_____	_____
Maiden Name	_____	_____	_____	_____	_____	_____
Address	_____	_____	_____	_____	_____	_____
Telephone	_____	_____	_____	_____	_____	_____
Social Security Number	_____	_____	_____	_____	_____	_____
Employee or ID Number	_____	_____	_____	_____	_____	_____
Date of Birth	_____	_____	_____	_____	_____	_____
Place of Birth	_____	_____	_____	_____	_____	_____
Sex	_____	_____	_____	_____	_____	_____
Race	_____	_____	_____	_____	_____	_____
Marital Status	_____	_____	_____	_____	_____	_____
Military Service	_____	_____	_____	_____	_____	_____
Next of Kin	_____	_____	_____	_____	_____	_____
Father's Last Name	_____	_____	_____	_____	_____	_____
Mother's Maiden Name	_____	_____	_____	_____	_____	_____
Present Occupation or Job Title	_____	_____	_____	_____	_____	_____
Present Employer	_____	_____	_____	_____	_____	_____
Date of Death	_____	_____	_____	_____	_____	_____

2. How far back do these records go? _____

3. Are inactive records maintained? Yes _____ No _____
 If yes, in what form? (please check) _____ Where are inactive records located? (please check)
 Paper _____ On site _____
 Microfilm/fiche _____ Off site _____
 Magnetic Tape _____ Destroyed _____
 On Line Data _____ If destroyed, which years? _____

OCCUPATIONAL FIELD VISIT

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

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

5. Can you roughly estimate the number of full time employees monitored this year? _____

6. Can you roughly estimate the number of full time employees monitored since the facility opened? _____

7. Please indicate the type of dosimeters and procedures currently used at this facility and answer the questions in the table.

(If you monitor neutron dose separately from γ , β , and x-rays please fill out the separate second sheet as well.)

Method of Dosimetry

	Film		TLD		Pocket		Bioassay		Whole Body		Other _____	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
a. Which of these methods are used?	---	---	---	---	---	---	---	---	---	---	---	---
b. 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.	---	---	---	---	---	---	---	---	---	---	---	---
e. How frequently are these read?	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

OCCUPATIONAL FIELD VISIT

	Film		TLD		Pocket		Bioassay		Whole Body		Other		
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
f. Are these read in-house?	---	---	---	---	---	---	---	---	---	---	---	---	
g. If not, name either the company or individual responsible.	_____												
h. For quality control do you ever submit dosimeters or samples exposed to a know level?	---	---	---	---	---	---	---	---	---	---	---	---	
i. Are quality control records kept?	---	---	---	---	---	---	---	---	---	---	---	---	
j. Approximately what proportion of full time employees are monitored by each method?	---	---	---	---	---	---	---	---	---	---	---	---	
8. Have there been any major changes in your dosimetry or dosimetric procedures in past years? if yes, please note how they differ from the above.												Yes	No

7.A. Neutron Dosimetry

Method of Dosimetry

	Film		TLD		Pocket		Other	
	Yes	No	Yes	No	Yes	No	Yes	No
a. Which of these methods are used?	---	---	---	---	---	---	---	---
b. Which year did this use begin?	---	---	---	---	---	---	---	---
c. Are records of dose kept for each employee?	---	---	---	---	---	---	---	---

OCCUPATIONAL FIELD VISIT

7.A. Neutron Dosimetry (cont.)

Method of Dosimetry

	Film		TLD		Pocket		Other	
	Yes	No	Yes	No	Yes	No	Yes	No
d. If not, are any records kept of their exposures (e.g. an exposure log)? If yes, please fill out Part C-Exposure Log.	---	---	---	---	---	---	---	---
e. How frequently are these read?	---	---	---	---	---	---	---	---
f. Are these read in-house?	---	---	---	---	---	---	---	---
g. If not, name either the company or individual responsible.	---	---	---	---	---	---	---	---
h. For quality control do you ever submit dosimeters or samples exposed to a know level?	---	---	---	---	---	---	---	---
i. Are quality control records kept?	---	---	---	---	---	---	---	---
j. Approximately what proportion of full time employees are monitored by each method?	---	---	---	---	---	---	---	---

8.A. Have there been any major changes in your neutron dosimetry or dosimetric rocedures in past years? Yes _____ No _____

If yes, please note how they differ from the above. _____

OCCUPATIONAL FIELD VISIT

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

Yes _____ No _____

If yes, please note _____

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.

<u>Data</u>			<u>LOCATION</u>				
	<u>Yes</u>	<u>No</u>	<u>Employees Record</u>	<u>Paper</u>	<u>Separate File</u> <u>Microfilm/</u> <u>Fiche</u>	<u>Magnetic</u>	<u>On Line</u> <u>Tape</u>
a. Dosimeter reading known to be inaccurate (e.g. badge left in radiation area during a procedure)	---	---	---	---	---	---	---
b. Radiation accident or incident.	---	---	---	---	---	---	---
c. Annual external exposure, present year	---	---	---	---	---	---	---
d. Annual external exposure, past years by year	---	---	---	---	---	---	---
e. Annual internal exposure, present year	---	---	---	---	---	---	---
f. Annual internal exposure, past years by year	---	---	---	---	---	---	---
g. Cumulative lifetime external exposure	---	---	---	---	---	---	---
h. Cumulative lifetime internal exposure	---	---	---	---	---	---	---
i. Previous occupational radiation exposure	---	---	---	---	---	---	---
j. Medical radiation exposures	---	---	---	---	---	---	---
k. Exposure to toxic chemicals	---	---	---	---	---	---	---
If yes, which ones?	---	---	---	---	---	---	---

OCCUPATIONAL FIELD VISIT

11. Do the cumulative external dose measurements include neutron dose? Yes _____ No _____
12. Is there some exposure level below which personnel are not monitored? Yes _____ No _____
If yes, what is that level? _____
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? Yes _____ No _____
If yes, whom may we contact? _____
15. Do industrial hygiene records exist? Yes _____ No _____
If yes, which years do they cover? _____
16. What is the procedure for obtaining access to employee records? _____

Facility _____
 Name of Respondent _____
 Department _____
 Title of Record _____

FIELD VISIT

C. Exposure Log

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					
	<u>Yes</u>	<u>No</u>	<u>Paper</u>	<u>Microfilm/ Fiche</u>	<u>Magnetic Tape</u>	<u>On Line Data</u>
Name						
Last	_____	_____	_____	_____	_____	_____
First	_____	_____	_____	_____	_____	_____
Middle Initial	_____	_____	_____	_____	_____	_____
Maiden Name	_____	_____	_____	_____	_____	_____
Address	_____	_____	_____	_____	_____	_____
Telephone	_____	_____	_____	_____	_____	_____
Social Security Number	_____	_____	_____	_____	_____	_____
Employee or ID Number	_____	_____	_____	_____	_____	_____
Date of Birth	_____	_____	_____	_____	_____	_____
Place of Birth	_____	_____	_____	_____	_____	_____
Sex	_____	_____	_____	_____	_____	_____
Race	_____	_____	_____	_____	_____	_____
Date of Notation	_____	_____	_____	_____	_____	_____

Please note any other items included in this log.

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

2. How far back do these records go? _____

3. Are inactive records maintained? Yes _____ No _____
 If yes, in what form? (please check) _____ Where are inactive records located? (please check)
 Paper _____ On site _____
 Microfilm/fiche _____ Off site _____
 Magnetic Tape _____ Destroyed _____
 On Line Data _____ If destroyed, which years? _____

EXPOSURE LOG

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

Yes _____ No _____

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