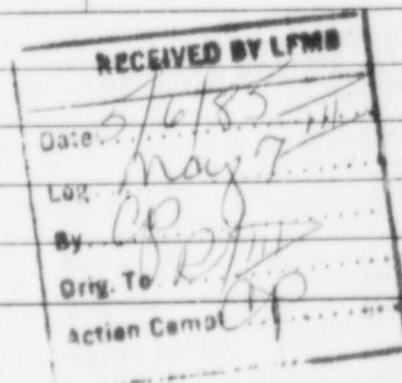


## APPENDIX A (Continued)

<b>NRC Form 313 I</b> (12-81) 10 CFR 30		<b>U.S. NUCLEAR REGULATORY COMMISSION</b>		<b>1. APPLICATION FOR:</b> <i>(Check and/or complete as appropriate)</i>	
<b>APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL</b>				<input type="checkbox"/> a. NEW LICENSE	
<i>See attached instructions for details.</i>  Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.				<input checked="" type="checkbox"/> b. AMENDMENT TO LICENSE NUMBER <b>12-05650-19</b>	
				<input type="checkbox"/> c. RENEWAL OF LICENSE NUMBER	
<b>2. APPLICANT'S NAME</b> <i>(Institution, firm, person, etc.)</i>  <u>Commonwealth Edison Co.</u> TELEPHONE NUMBER - AREA CODE - NUMBER EXTENSION (312) 294-3973			<b>3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION</b>  <u>Greg Alexander</u> TELEPHONE NUMBER - AREA CODE - NUMBER EXTENSION (312) 294-3977		
<b>4. APPLICANT'S MAILING ADDRESS</b> <i>(Include Zip Code)</i> <i>(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)</i>  <u>Nuclear Licensing 34 FNE</u> <u>P.O. Box 767</u> <u>Chicago, IL 60690</u>			<b>5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED</b> <i>(Include Zip Code)</i> Add: <u>Mazon EOF</u> <u>960 North Route 47</u> <u>Morris, IL 60450</u>		
(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)					
<b>6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL</b> <i>(See Items 16 and 17 for required training and experience of each individual named below)</i>					
FULL NAME			TITLE		
a. <u>See Attachment A</u>					
b.					
c.					
<b>7. RADIATION PROTECTION OFFICER</b> <u>Thomas J. Kovach</u>  <u>Robert A. Paylick (alternate)</u>			Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.		
<b>8. LICENSED MATERIAL</b>					
LINE NO.	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER AND MODEL NUMBER <i>(If Sealed Source)</i>	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME	
	A	B	C	D	
(1)	Add: <u>Cesium - 137</u>	<u>Sealed Source</u>	<u>Shepherd 28-8B</u>	<u>25 Curies</u>	
(2)					
(3)					
(4)					
DESCRIBE USE OF LICENSED MATERIAL E					
(1)	Add: <u>Beam calibrator for irradiation of TLD badges.</u>				
(2)					
(3)					
(4)					

NRC FORM 313 I (12-81)


**FEE EXEMPT**  
 170-1164(3)

# APPENDIX A (Continued)

9. STORAGE OF SEALED SOURCES			
LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A	NAME OF MANUFACTURER B	MODEL NUMBER C
(1)	#1-Beam Calibrator	Shepherd and Assoc.	28- 8B
(2)			
(3)			
(4)			

10. RADIATION DETECTION INSTRUMENTS						
LINE NO.	TYPE OF INSTRUMENT A	MANUFACTURER'S NAME B	MODEL NUMBER C	NUMBER AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
(1)	Same as original application					
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10	
<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY	<input checked="" type="checkbox"/> b. CALIBRATED BY APPLICANT Attach a separate sheet describing method, frequency and standards used for calibrating instruments.  Same as original

12. PERSONNEL MONITORING DEVICES		
TYPE (Check and/or complete as appropriate) A	SUPPLIER (Service Company) B	EXCHANGE FREQUENCY C
<input checked="" type="checkbox"/> (1) FILM BADGE  <input checked="" type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD)  <input type="checkbox"/> (3) OTHER (Specify): <u>Same as original application</u>	(1) R.S. Landauer, Jr. & Co.  (2) Commonwealth Edison Company	<input checked="" type="checkbox"/> MONTHLY  <input type="checkbox"/> QUARTERLY  <input type="checkbox"/> OTHER (Specify): _____

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)
<input checked="" type="checkbox"/> a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC <input checked="" type="checkbox"/> b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC <input type="checkbox"/> c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC <input type="checkbox"/> d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC
See Attachment B

14. WASTE DISPOSAL
a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED 1) Chem-Nuclear; Barnwell, S. Carolina 2) U.S. Ecology; Richland, Washington
b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE. The sealed source will be returned to the manufacturer in the event that Commonwealth Edison wishes to dispose of it. If the manufacturer refuses the source, one of the above listed waste disposal services will be employed.

# APPENDIX A (Continued)

## INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.

Same as original application

16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.

- a. Principles and practices of radiation protection.
- b. Radioactivity measurement standardization and monitoring techniques and instruments.
- c. Mathematics and calculations basic to the use and measurement of radioactivity.
- d. Biological effects of radiation.

Same as original application

17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

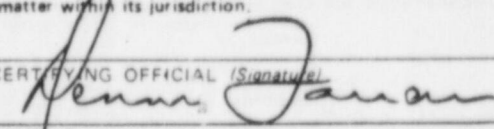
See Attachment C

## 18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

WARNING - 18 U.S.C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)	b. CERTIFYING OFFICIAL (Signature) 
170.11(a)(3)	c. NAME (Type or print) Dennis Farrar
(1) LICENSE FEE CATEGORY Amendment	d. TITLE Director of Nuclear Licensing
(2) LICENSE FEE ENCLOSED \$ 0	e. DATE April 15, 1985

RECEIVED

APR 30 1985



## DRAFT VALUE/IMPACT STATEMENT

### 1. PROPOSED ACTION

#### 1.1 Description

A revision to Regulatory Guide 10.9, "Guide for the Preparation of Applications for Licenses for the Use of Gamma Irradiators," is proposed to incorporate lessons learned following an incident at a Type IV (panoramic, wet storage) gamma irradiator facility at Broken Bow, Nebraska. The incident occurred when turned-down corners of product carrier boxes intruded into the path of the source, preventing the source's return to the unexposed position. Nine hours later, the contents of the product carrier boxes, which were exposed to the source all this time, ignited. The sprinkler system was activated and put out the fires as they arose. The proposed revision of Regulatory Guide 10.9 includes procedures for inspection of product carrier boxes and guidance on fire protection features to prevent fires that could affect the integrity of the sources.

In addition, a statement on maintaining the pH and conductivity of storage pool water within acceptable ranges to avoid accelerated corrosion of source capsules at conditions of low pH and high conductivity is being added.

#### 1.2 Need for the Proposed Action

Damaged product carrier boxes should never be allowed to enter the irradiation cell because of the possibility of jamming the source in the exposed position for an extended period of time. In the situation described above, if the machine safety interlocks had not functioned properly, a radiation hazard to personnel would have existed. In addition, the resultant fires, caused by prolonged exposure of product carrier boxes while an attempt was made to unjam the source, could have damaged the sources and hence posed a radiation hazard to personnel during cleanup and decontamination operations. Therefore, the



ATTACHMENT A

ITEM 6 - INDIVIDUALS WHO WILL USE OR DIRECTLY SUPERVISE  
THE USE OF LICENSED MATERIAL\*

<u>Full Name</u>	<u>Title</u>
a. James Johnson	TLD Team Leader - Braidwood
b. Timothy Keith	Station H.P. - Braidwood
c. Vern Chaney	TLD Team Leader - Dresden
d. Denise Saccomando	H.P. - Dresden
e. Kenneth Watson	TLD Team Leader - LaSalle
f. Lary Aldrich	Lead H.P. - LaSalle
g. Bill Carl	H.P. Dosimetry - TLDs

- \* The above listed people are to be added to the list of user in Item 6 of the original application, May 31, 1984.

ATTACHMENT B

Item 13 - Facilities and Equipment

1. Shepherd Calibrator:

A portion of the men's locker room in the Mazon Emergency Off-Site Facility will be converted into a TLD irradiator room which will house the Shepherd beam calibrator listed in item 8 of this application. Diagram 1 shows the location of this locker room and the adjoining rooms. Diagram 2 is an enlargement of the highlighted area of Diagram 1 showing the location of the calibrator and the shielding inside the Emergency Off-Site Facility men's locker room. Shielding for the irradiator will be designed to reduce any exposure rate outside of the irradiator room to below 2 mR/h when the source is exposed. For a more detailed discussion on the exposure rates of this area see the section on occupancy factors.

The Shepherd calibrator will have an exposure rate of less than 10 mR/h at one foot from the source with the source in the "OFF" position. When the source is in the "ON" position, the exposure rate one foot behind the calibrator will not exceed 50 mR/h. Personnel authorized to use the calibrator shall be instructed to stand behind the calibrator only when necessary to preclude unnecessary exposures resulting from use of the calibrator. When the source is in the "ON" position, personnel will be required to leave the immediate irradiator room. The calibrator will be securely bolted to the floor with an effective source height of approximately 48 inches. Diagram 2 shows estimated exposure rates in the room in the direct path of the beam at 1 ft., 4 ft. and 11 ft. from the source. A complete survey will be performed once the calibrator has been installed and actual exposure rates will be documented.

The entrance to the irradiator room will be locked. The keys to this door will be distributed on a controlled basis. Inside the irradiator room a separate entrance to the shielded irradiator cubicle will be secured by a locked gate and the keys will be distributed on a controlled basis. Signs designating the presence of radioactive material will be posted on the gate inside the irradiator room. Warning lights signalling personnel when the source is in the "ON" position will be located at the entrance to the irradiator room. The calibrator itself has a light which will turn on when the source is "ON".

Several interlock systems will be built directly into the Shepherd calibrator. The source will be activated manually by raising the shielded operating rod. The operating rod will work in conjunction with an electronic timer built into the calibrator so that an irradiation time can be preset and the source will automatically return to the "OFF" position once this time has elapsed. An electric eye system will also work in conjunction with the operating rod so that the source will drop back to its "OFF" position if the electric eye beam is broken. If an attempt is made to walk in front of the calibrator while the source is in the "ON" position, the electric eye beam is disrupted and the source is shut down. The electric eye should prevent any personnel from being accidentally exposed directly to the radiation beam. Diagram 2 shows the position of the electric eye in relation to the calibrator.

2. Occupancy Factors:

Diagram 1 shows the rooms adjoining the irradiation room. The environmental room will be used as a TLD processing room. Personnel will occupy this room routinely. The office located between the irradiator room and the environmental room will be occupied routinely. The foremen's office will be routinely occupied by the TLD Team Leaders from Dresden, Braidwood and LaSalle stations. The men's restroom will be occupied as needed and the locker room will not be used routinely. The area outside the irradiator room in the direction of the beam path is a service road and beyond that a cornfield. The corridor is a main thoroughfare. The tool room will be occupied as needed.

The designed exposure rates for the areas adjoining the irradiator room will be less than 2 mR/h once the shielding is in place. Actual exposure rates will be measured once the source and shielding are in place. The measured exposure rates will be used to determine any limitations on occupancy of the rooms immediately surrounding the irradiator room. Should the exposure rate exceed 2 mR/h, the area will be posted and controlled as a radiation area while the calibrator is in use. Occupancy and usage of the calibrator will be controlled so that no individual will receive a dose in excess of 100 mrem/wk or 500 mrem/yr.

3. Fire Detection and Control Systems:

There are smoke detection devices located throughout the Mazon Emergency Off-Site Facility. These devices are currently tied into a fire detection system which will cause an alarm at the Morris Fire Department if a smoke detector is activated. The security alarm is tied into the County Sheriff's Department.

WC/bah  
#2033H/3-4



Diagram #1:

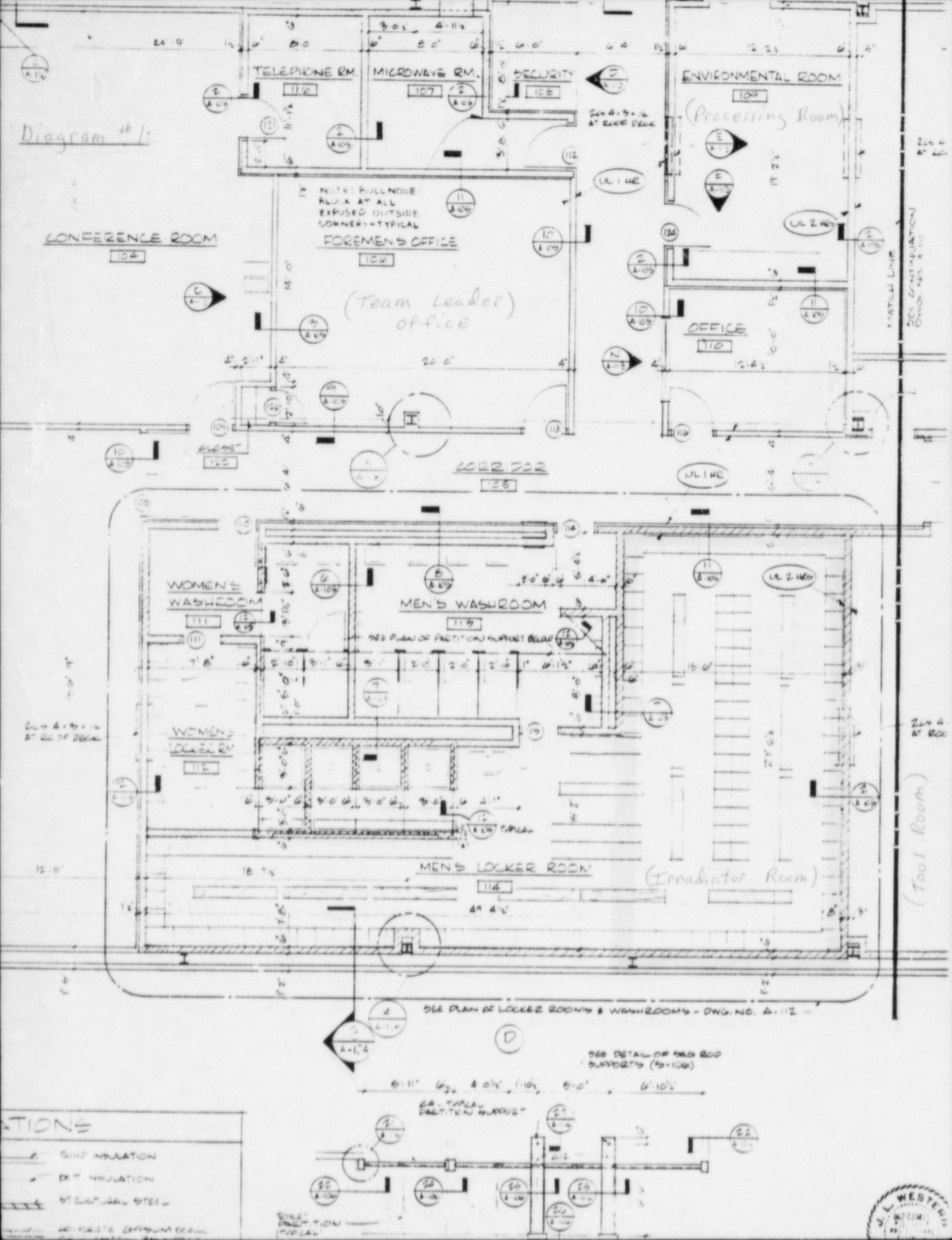
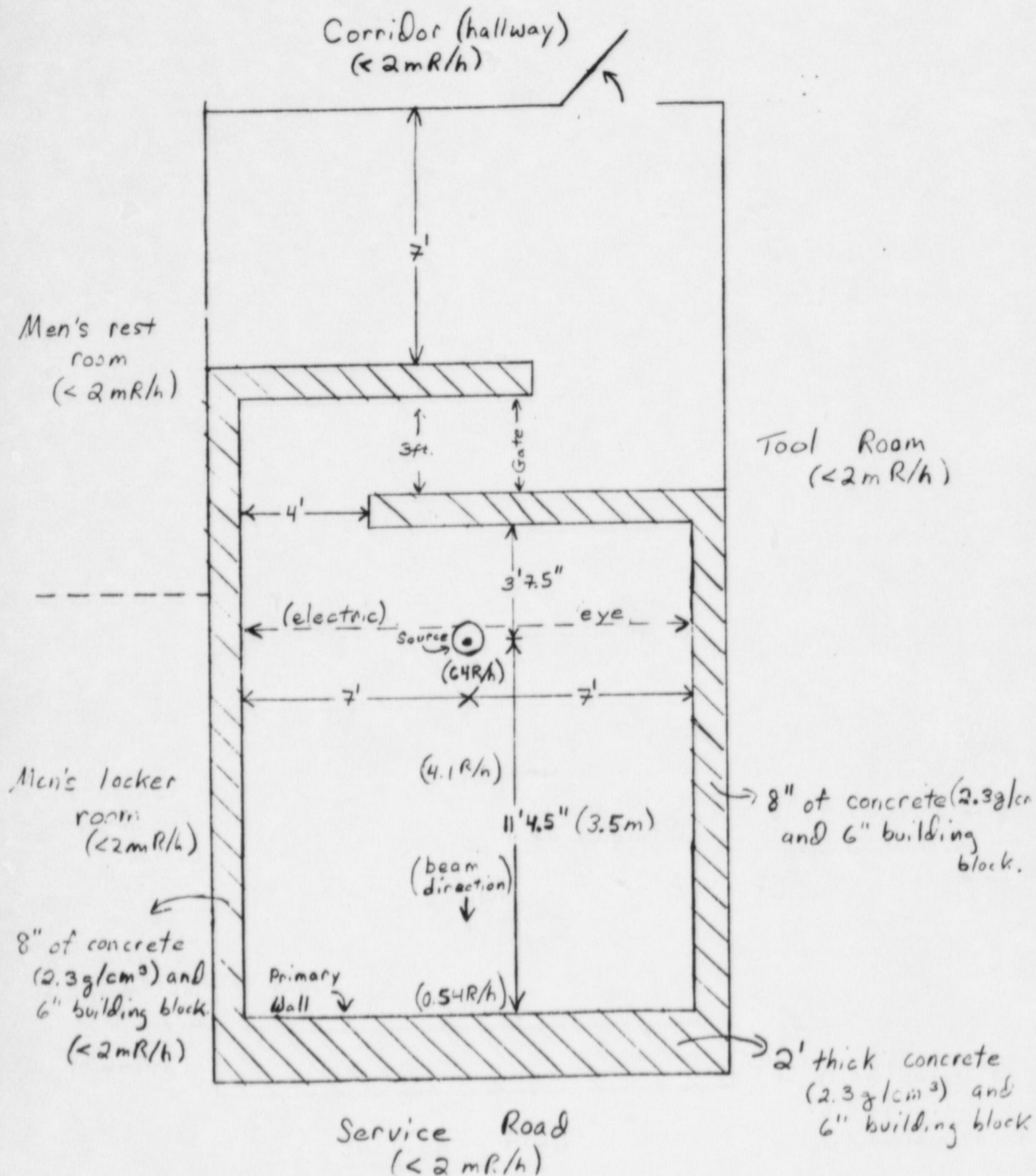


Diagram 2:



ATTACHMENT C

Items 16 and 17

The attached resumes detail the training and work experience of the six individuals named in Item 6.

The following is a list of the radioisotopes and maximum activities used by the individuals named in Item 6.

<u>NAME</u>	<u>RADIOISOTOPE</u>	<u>MAXIMUM ACTIVITY</u>
James Johnson	$^{137}\text{Cs}$ , $^{90}\text{Sr}$ , $^3\text{H}$ $^{60}\text{Co}$ , $^{226}\text{Ra}$	500 Ci 1000 Ci
Timothy Keith	$^{137}\text{Cs}$ $^{90}\text{Sr}$ , $^{252}\text{Cf}$	400 Ci 2 uCi
Vern Chaney	$^{137}\text{Cs}$ $^{60}\text{Co}$ $^{85}\text{Kr}$ AmBe	400 Ci 5 Ci 4 Ci 5.85 Ci
Denise Saccomando	$^{137}\text{Cs}$ $^{60}\text{Co}$ $^{235}\text{U}$	400 Ci 40 mCi 1.26 mCi
Kenneth Watson	$^{137}\text{Cs}$	400 Ci
Lary Aldrich	$^{32}\text{P}$ , $^{60}\text{Co}$ , $^{137}\text{Cs}$	10 mCi
William Carl	$^{137}\text{Cs}$ $^{60}\text{Co}$	200 Ci 100 Ci



RESUME OF NUCLEAR POWER PLANT PERSONNEL  
PERSONAL HISTORY, EDUCATION, AND EXPERIENCE

NAME: James E. Johnson                      DATE: September 21, 1984  
DATE OF BIRTH: November 14, 1935              AGE: 48  
CITIZENSHIP: U.S.A.                      SSN: 323-28-3860  
CECo SERVICE DATE: January 25, 1982              EMPLOYEE NO: 386-075  
PRESENT JOB TITLE: Health Physics E.A.              NUCLEAR LICENSES HELD: None  
PRESENTLY: None  
PREVIOUSLY: None

JOB (POSITION) DESCRIPTION: Rad-Chem Department Training Coordinator,  
Assistant to Station GSEP Coordinator, As Health Physics GP. Engineering  
Assistant, work on assigned projects, Station T.L.D. Team Leader

DEPARTMENT SERVICE DATE: January 25, 1982

TITLE DATE: January 25, 1982

FORMAL EDUCATION - HIGHEST YEAR COMPLETED: 15 yrs.

<u>NAME OF COLLEGE OR UNIVERSITY:</u>	<u>YEAR GRADUATED:</u>	<u>DEGREE</u>
Joliet Junior College	1958	A/A
University of Illinois	41 Additional Hours	No Degree

YEARS OF EXPERIENCE IN YOUR FIELD OR SPECIALTY: 25 yrs.

YEARS OF POWER PLANT EXPERIENCE: 2½ yrs.

YEARS OF NUCLEAR PLANT EXPERIENCE: 10 yrs. CP-5 Research Reactor  
16 yrs. Radioactive Laboratory  
Support GP.

PERSONAL TRAINING RECORD

LIST TECHNICAL & NON-TECHNICAL COURSES AND SEMINARS COMPLETED:

<u>DESCRIPTION OF COURSE:</u>	<u>TAUGHT BY</u>	<u>LENGTH OF COURSE</u>	<u>DATE COMPLETED</u>
1. Technician Training Course	Argonne National Laboratory	20 Weeks	1961
2. Special Training Course	Field Command, Defense Atomic Support Agency, Sandia Military Base, Albuquerque, N.M.	1 Week	1969
3. Post Accident Radiation Assessment	Northwestern University	1 Week	April 16, 1982
4. Short Course on Radiation Protection	University of Michigan	2 Weeks	May 20, 1983
5. Introduction To Power Plant Operations	Westinghouse-Zion Training Center	1 Week	July, 1983
6. A Short Course in Meteorology	Dr. E. Agee-Mazon E.O.F.	3 Days	November 23, 1983
7. Hazardous Chemicals Safety Course	J.T. Baker	2 Days	May 22, 1984
8. Supervising For Results	C.E.Co.	2 Weeks	June 8, 1984
9. Problem Solving/ Decision Making (K.T.)	P.T.C.	3 Days	August 16, 1984

PREVIOUS EXPERIENCE

PREVIOUS EXPERIENCE: (Present Job First - Include CECo Experience)

DATES:

From: 1/25/82	To: Present	Position: Health Physics E.A. Location: Braidwood Nuclear Power Station
From: 1975	To: 1982	Position: Member, Insitu. Coal Gasification Location: Group, Chemical Engineering Div., Argonne National Laboratory
From: 1963	To: 1975	Position: Member, (one of twelve) of A.E.C. Location: Radiological Assistance Team, Argonne National Laboratory
From: 1959	To: 1975	Position: Senior Radiation Safety Tech. Location: With 10 years experience at CP-5 Research Reactor, Argonne National Laboratory
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:



<u>NAME:</u> Timothy D. Keith	<u>DATE:</u> September 21, 1984
<u>DATE OF BIRTH:</u> November 17, 1957	<u>AGE:</u> 26
<u>CITIZENSHIP:</u> U.S.A.	<u>SSN:</u> 307-64-8287
<u>CECo SERVICE DATE:</u> June 3, 1980	<u>EMPLOYEE NO:</u> 406-530
<u>PRESENT JOB TITLE:</u> Station Health Physicist	<u>NUCLEAR LICENSES HELD:</u> None
	<u>PRESENTLY:</u> None
	<u>PREVIOUSLY:</u> None

PERSONAL TRAINING RECORD

LIST TECHNICAL & NON-TECHNICAL COURSES AND SEMINARS COMPLETED:

<u>DESCRIPTION OF COURSE:</u>	<u>TAUGHT BY</u>	<u>LENGTH OF COURSE</u>	<u>DATE COMPLETED</u>
1. Post Accident Radiation Assessment	Northwestern University	1 Week	April 15, 1983
2. Introduction To Power Plant Operations	Westinghouse Zion Training Center	1 Week	May, 1983
3. Hazardous Chemicals Safety Course	J.T. Baker	2 Days	June 10, 1983
4. Supervising For Results	C.E.Co.	2 Weeks	1983
5. VT Training	Braidwood Training Dept.	1 Week	July 22, 1983
6. U.S. Ecology Radwaste Seminar	Chem-Nuclear	3 Days	1983
7. Management Communications (SAI)	P.T.C.	3 Days	February 2, 1984
8. PWR Indroctrination Course	Braidwood Training Dept.	2 Weeks	May 18, 1984
9. Problem Solving/ Decision Making (KT)	P.T.C.	3 Days	June 14, 1984
10. Radiation Exposure Management Seminar	Westinghouse	3 Days	1983 1984

PREVIOUS EXPERIENCE

PREVIOUS EXPERIENCE: (Present Job First - Include CECO Experience)

DATES:

From: 1/83	To: Present	Position: Station Health Physicist Location: Braidwood Station
From: 9/82	To: 12/82	Position: Staff Health Physicist Location: Quad Cities Station
From: 6/82	To: 8/82	Position: Station Health Physicist Location: Braidwood Station
From: 6/80	To: 5/82	Position: Staff Health Physicist Location: Quad Cities Station
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:



RESUME OF NUCLEAR POWER PLANT PERSONNEL  
PERSONAL HISTORY, EDUCATION AND EXPERIENCE

NAME: Vernon L. Chaney

DATE: October 12, 1984

DATE OF BIRTH: June 3, 1939

AGE: 45

CITIZENSHIP: U.S.A.

SS#: 361-32-4689

DECo. SERVICE DATE: June 25, 1957

EMPLOYEE #: 122-995

PRESENT JOB TITLE:

TLD Team Leader

NUCLEAR LICENSES HELD: None

PRESENTLY:

PREVIOUSLY:

JOB POSITION DESCRIPTION:

Thermoluminescent Dosimetry Team Leader from Dresden Station - Help establish a TLD Program for Commonwealth Edison.

DEPARTMENT SERVICE DATE: October 18, 1982

TITLE DATE: September 17, 1984

FORMAL EDUCATION-HIGHEST YEAR COMPLETED: Graduated High School

NAME OF COLLEGE

YEAR GRADUATED

DEGREE

YEARS OF EXPERIENCE IN YOUR FIELD OR SPECIALTY: 22 years

YEARS OF POWER PLANT EXPERIENCE: 27 years

YEARS OF NUCLEAR PLANT EXPERIENCE: 25 years

PERSONAL TRAINING RECORD

LIST TECHNICAL & NON-TECHNICAL COURSES AND SEMINARS COMPLETED:

<u>DESCRIPTION OF COURSES</u>	<u>TAUGHT BY</u>	<u>LENGTH OF COURSE</u>	<u>DATE COMPLETED</u>
<u>Commonwealth Edison Company Courses</u>			
Introduction to Steam Power			1957
Introduction to Atomic Power			1959
Basic Electronics			1964
Math and Algebra Courses			?
Blueprint Reading			1962
Harvard School of Public Health - Planning for Nuclear Emergencies	Dade Moeller	- 1 Week	May 20, 1977

PREVIOUS EXPERIENCE

PREVIOUS EXPERIENCE: (Present Job First - Include CEC Co. Experience)

FROM: 9/84	TO: 10/84	POSITION: TLD Team Leader LOCATION: Dresden Station
FROM: 10/82	TO: 10/84	POSITION: Lead General Health Physics Foreman LOCATION: Dresden Station
FROM: 4/82	TO: 10/82	POSITION: Health Physics Training Coordinator LOCATION: General Office - Chicago
FROM: 12/76	TO: 4/82	POSITION: Generating Stations Emergency Plan LOCATION: Coordinator Genreal Office - Chicago
FROM: 4/70	TO: 12/76	POSITION: Radiological/Chemistry Foreman LOCATION: Dresden Station
FROM: 11/65	TO: 4/70	POSITION: Radiation Chemistry Technician LOCATION: Dresden Station
FROM: 7/62	TO: 11/65	POSITION: Electrical Maintenance LOCATION: Dresden Station
FROM: 8/59	TO: 7/62	POSITION: Laboratory Technician LOCATION: Dresden Station
FROM: 6/57	TO: 8/59	POSITION: Station Man LOCATION: Joliet Station

RESUME OF NUCLEAR POWER PLANT PERSONNEL  
PERSONAL HISTORY, EDUCATION AND EXPERIENCE

NAME: Denise M. Saccomando

DATE: 10/18/84

DATE OF BIRTH: 12/12/55

AGE: 28

CITIZENSHIP: U.S.A.

SS#: 329-48-2930

CECo. SERVICE DATE: 4/4/83

EMPLOYE #: 711-150

PRESENT JOB TITLE: Health Physicist

NUCLEAR LICENSES HELD: None

PRESENTLY:

PREVIOUSLY:

JOB POSITION DESCRIPTION: Supervises and directs the work activity of assigned Health Physics Eng. Asst. when designated by the Lead H. P. Technical responsibilities for the supervision of these personnel. Assists in the preparation and implementation of the station's R. P. programs, assists in the preparation of ALARA reviews, and R. P. training. Participates in the health physics aspects of the GSEP, Radwaste and transportation programs.

DEPARTMENT SERVICE DATE: 4/4/83

TITLE DATE: 4/4/83

FORMAL EDUCATION-HIGHEST YEAR COMPLETED:

<u>NAME OF COLLEGE</u>	<u>YEAR GRADUATED</u>	<u>DEGREE</u>
Northwestern University	83	MS

YEARS OF EXPERIENCE IN YOUR FIELD OR SPECIALTY: 1.5 years

YEARS OF POWER PLANT EXPERIENCE: 1.5 years

YEARS OF NUCLEAR PLANT EXPERIENCE: 1.5 years



PERSONAL TRAINING RECORD

LIST TECHNICAL & NON-TECHNICAL COURSES AND SEMINARS COMPLETED:

<u>DESCRIPTION OF COURSES</u>	<u>TAUGHT BY</u>	<u>LENGTH OF COURSE</u>	<u>DATE COMPLETED</u>
Enviroins Director Training	B. Mosel	3 Days	9/84
Self Reading Dosimeter Program	Dosimeter Corp.	1	6/84
Nuclear Instrumentation	Harvard School of Public Health	5	4/84
Radwaste Shipments & Burial	Chem-Nuclear	3	9/83

PREVIOUS EXPERIENCE

PREVIOUS EXPERIENCE: (Present Job First - Include CECe. Experience)

FROM: 4/83	TO: Present	POSITION: Health Physicist LOCATION: Dresden Station
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:

RESUME OF NUCLEAR POWER PLANT PERSONNEL  
PERSONAL HISTORY, EDUCATION, AND EXPERIENCE

NAME: Kenneth C. Watson

DATE: December 5, 1984

DATE OF BIRTH: Sept. 17, 1957

AGE: 27

CITIZENSHIP: U.S.A.

SSN: 337-54-7067

CECO SERVICE DATE: Oct. 5, 1978

EMPLOYEE NO: 868-460

PRESENT JOB TITLE: LSCS TLD Team Leader

NUCLEAR LICENSES HELD: None

PRESENTLY:

PREVIOUSLY:

JOB (POSITION) DESCRIPTION:

TLD team leader for LaSalle County Station assigned to implement TLD program.

DEPARTMENT SERVICE DATE: Sept. 2, 1980

TITLE DATE: October 1, 1984

FORMAL EDUCATION - HIGHEST YEAR COMPLETED: 15 years

NAME OF COLLEGE OR UNIVERSITY:

YEAR GRADUATED:

DEGREE:

Lewis University

N/A

N/A

YEARS OF EXPERIENCE IN YOUR FIELD OR SPECIALTY: 4½ years

YEARS OF POWER PLANT EXPERIENCE: 6 years

YEARS OF NUCLEAR PLANT EXPERIENCE: 6 years

PERSONAL TRAINING RECORD

LIST TECHNICAL & NON-TECHNICAL COURSES AND SEMINARS COMPLETED:

<u>DESCRIPTION OF COURSE:</u>	<u>TAUGHT BY:</u>	<u>LENGTH OF COURSE:</u>	<u>DATE COMPLETED</u>
Radiation Chemistry Technician Training	D. Hieggelke	Sept-Dec 1980	Dec 1980
Panasonic TLD Training	P. Plato J. Miklos	6 weeks	14 Dec 84



PREVIOUS EXPERIENCE

PREVIOUS EXPERIENCE: (Present Job First - Include CECo Experience)

DATES:

From: Oct 78	To: Aug 80	Position: Equip. Attendant - Operating Location: LaSalle County Station
From: Sep 80	To: Jan 82	Position: Radiation Chemistry Technician Location: LaSalle County Station
From: Feb 82	To: Present	Position: Engineering Assistant/Rad Chem Location: LaSalle County Station
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:
From:	To:	Position: Location:

<u>RADIOACTIVE SOURCES</u>	<u>ACTIVITY</u>	<u>EXPERIENCE</u>	<u>TYPE OF USE</u>
Cs-137	400.13 ci	Sep 80 - Present	Monitor Calibration
Cs-137	15.0 ci	Sep 80 - Present	Instrument Calibration
Cs-137	9.0 ci	Sep 80 - Present	Instrument Calibration
Cs-137	4.5 ci	Sep 80 - Present	Instrument Calibration
Cs-137	1.5 ci	Sep 80 - Present	Instrument Calibration
Various	1.0 ci	Sep 80 - Present	Health Physics Activities

RESUME OF NUCLEAR POWER PLANT PERSONNEL  
PERSONAL HISTORY, EDUCATION AND EXPERIENCE

NAME: Aldrich, Lary Robert

DATE: April 12, 1985

DATE OF BIRTH: November 28, 1956

AGE: 28

CITIZENSHIP: U.S.A.

SS#: 128-50-2726

CECo. SERVICE DATE: 6/78

EMPLOYEE #: 007-110

PRESENT JOB TITLE: Lead Health Physicist  
-Technical Services

NUCLEAR LICENSES HELD: NONE

PRESENTLY:

PREVIOUSLY:

JOB POSITION DESCRIPTION:

Supervisor Health Physics Group, including health physicists and engineering assistants. Recommend and advise Radiation-Chemistry Supervisor with respect to health physics programs and radiation protection practices in the plant. Supervise the administration of the radiation dose accountability program and the respiratory protection program.

DEPARTMENT SERVICE DATE: 9/78

TITLE DATE: 1/83

FORMAL EDUCATION-HIGHEST YEAR COMPLETED: 16

NAME OF COLLEGE  
Purdue University

YEAR GRADUATED  
1978

DEGREE  
B.S. -Environmental  
Health/Health Physics

YEARS OF EXPERIENCE IN YOUR FIELD OR SPECIALTY: 7

YEARS OF POWER PLANT EXPERIENCE: 6.5

YEARS OF NUCLEAR PLANT EXPERIENCE: 6.5

PERSONAL TRAINING RECORD

LIST TECHNICAL & NON-TECHNICAL COURSES AND SEMINARS COMPLETED:

<u>DESCRIPTION OF COURSES</u>	<u>TAUGHT BY</u>	<u>LENGHT OF COURSE</u>	<u>DATE COMPLETED</u>
LaSalle County BWR Systems Description Course	LCNS	3 Months	12/31/78
Demineralization in Power Plants	LCNS	4 Months	1/79
GSEP Director Training	Persnl Development	3 Days	1/84
Nuclear Station GSEP Exercise Trng	Persnl Development	1 Day	10/84
Radiation Chemistry Manager Continuing Training	Persnl Development	1 Day	1/85



PREVIOUS EXPERIENCE

PREVIOUS EXPERIENCE: (Present Job First - Include CECO. Experience)

FROM: 1/83	TO: Present	POSITION: Lead Health Physicist LOCATION: LaSalle County Station
FROM: 9/78	TO: 1/83	POSITION: Health Physicist LOCATION: LaSalle County Station
FROM: 6/78	TO: 9/78	POSITION: Health Physicist LOCATION: PSA, Corporate Office
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:

RESUME OF NUCLEAR POWER PLANT PERSONNEL  
PERSONAL HISTORY, EDUCATION AND EXPERIENCE

<u>NAME:</u>	CARL, WILLIAM F.	<u>DATE:</u>	January 1, 1985
<u>DATE OF BIRTH:</u>	03-29-60	<u>AGE:</u>	24
<u>CITIZENSHIP:</u>	U.S.A.	<u>SS#:</u>	345-60-8922
<u>CECo. SERVICE DATE:</u>	09-17-84	<u>EMPLOYE #:</u>	112-040
<u>PRESENT JOB TITLE:</u>	Health Physicist	<u>NUCLEAR LICENSES HELD:</u>	None
		<u>PRESENTLY:</u>	<u>PREVIOUSLY:</u>

JOB POSITION DESCRIPTION:

Provide technical and operational assistance to the TLD Group Leader in maintaining the TLD program at the nuclear stations. Assist the station TLD teams in maintaining state-of-the-art quality control and operation procedures

DEPARTMENT SERVICE DATE: 09-17-84

TITLE DATE: 09-17-84

FORMAL EDUCATION-HIGHEST YEAR COMPLETED: 17 years

<u>NAME OF COLLEGE</u>	<u>YEAR GRADUATED</u>	<u>DEGREE</u>
Colorado State University	1984	M.S. - Health Physics
Lewis University	1983	B.S. - Physics

YEARS OF EXPERIENCE IN YOUR FIELD OR SPECIALTY: 5 years

YEARS OF POWER PLANT EXPERIENCE: None

YEARS OF NUCLEAR PLANT EXPERIENCE: None

PERSONAL TRAINING RECORD

LIST TECHNICAL & NON-TECHNICAL COURSES AND SEMINARS COMPLETED:

<u>DESCRIPTION OF COURSES</u>	<u>TAUGHT BY</u>	<u>LENGTH OF COURSE</u>	<u>DATE COMPLETED</u>
Panasonic TLD System	Philip Plato Univ. of Mich.	6 Weeks	12-14-84

PREVIOUS EXPERIENCE

PREVIOUS EXPERIENCE: (Present Job First - Include CEC Co. Experience)

FROM: 09-17-84	TO: Present	POSITION: TLD Health Physicist LOCATION: Tech Serv - Rad Prot
FROM: 09-83	TO: 08-84	POSITION: Graduate Research Asst LOCATION: Colorado State University
FROM: 05-79	TO: 08-83	POSITION: Radiation Safety Technician LOCATION: Fermilab, Batavia, Illinois
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:
FROM:	TO:	POSITION: LOCATION:



RESUME OF NUCLEAR POWER PLANT PERSONNEL  
PERSONAL HISTORY, EDUCATION AND EXPERIENCE

<u>NAME:</u>	KOVACH, Thomas J.	<u>DATE:</u>	March 29, 1985
<u>DATE OF BIRTH:</u>	05-12-52	<u>AGE:</u>	32
<u>CITIZENSHIP:</u>	USA	<u>SS#:</u>	376-60-3407
<u>CECo. SERVICE DATE:</u>	06-18-76	<u>EMPLOYE #:</u>	437-700
<u>PRESENT JOB TITLE:</u>	Radiation Protection Director	<u>NUCLEAR LICENSES HELD:</u>	
		<u>PRESENTLY:</u>	SRO
		<u>PREVIOUSLY:</u>	

JOB POSITION DESCRIPTION:

DEPARTMENT SERVICE DATE: 03-18-85

TITLE DATE: 03-18-85

FORMAL EDUCATION-HIGHEST YEAR COMPLETED:

<u>NAME OF COLLEGE</u>	<u>YEAR GRADUATED</u>	<u>DEGREE</u>
University of Michigan	1976	MS - Environmental Health
Central Michigan University	1974	BS - Biology

YEARS OF EXPERIENCE IN YOUR FIELD OR SPECIALTY: 9.5

YEARS OF POWER PLANT EXPERIENCE: 8.5

YEARS OF NUCLEAR PLANT EXPERIENCE: 8.5

PERSONAL TRAINING RECORD

LIST TECHNICAL & NON-TECHNICAL COURSES AND SEMINARS COMPLETED:

<u>DESCRIPTION OF COURSES</u>	<u>TAUGHT BY</u>	<u>LENGTH OF COURSE</u>	<u>DATE COMPLETED</u>
Insights for Excellence	Persnl Development		12-76
Supervising for Results	Persnl Development		06-80
Management Coaching	Persnl Development		07-83
Management Coaching Skill Building	Persnl Development		08-84

PREVIOUS EXPERIENCE

PREVIOUS EXPERIENCE: (Present Job First - Include CECO. Experience)

FROM: 03-18-85	TO: Present	POSITION: Radiation Protection Director
		LOCATION: Nuclear Services - GO
FROM: 06-80	TO: 03-85	POSITION: Radiation Chemistry Supvr.
		LOCATION: Quad Cities
FROM: 02-77	TO: 06-80	POSITION: Lead Health Physicist
		LOCATION: Quad Cities
FROM: 06-76	TO: 02-77	POSITION: Health Physicist
		LOCATION: Quad Cities
FROM:	TO:	POSITION:
		LOCATION:
FROM:	TO:	POSITION:
		LOCATION:
FROM:	TO:	POSITION:
		LOCATION:
FROM:	TO:	POSITION:
		LOCATION:
FROM:	TO:	POSITION:
		LOCATION: