

NOTE TO: License Fee Management Branch, ADM

FROM: Region III

SUBJECT: VOIDED APPLICATION

III  
*get 3p  
no refund*

Control Number 84184

Applicant Consumers Power Co.

Date Voided 2/29/88

Reason for Void Did not respond  
with additional info.

Signature Loren Huter  
L.D.

Attachment:  
Application

RECEIVED  
23 APR 22 1988

8902130281 880229  
REG3 LIC30  
21-18784-01 PNU

8805090048

45411 329

OK! FMB  
ML30

## CONVERSATION RECORD

TIME 8:30

DATE 2-29-88

TYPE

☐ VISIT☐ CONFERENCE☒ TELEPHONE☐ INCOMING☒ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

SUBJECT

ROUTING

NAME/SYMBOL

INT

Tom Neal

Consumer Power  
Company

616-764-8913

C/N 84184

## SUMMARY

The licensee representative noted above was informed that we are voiding their request for an amendment (C/N referenced above) since they have not responded within the specified 30 days to our telephone request made on December 23, 1987 for additional information.

Further, the licensee representative was informed that we will hold the information previously submitted in their request for one year. If they wish to reactivate the request within that time, they may do so without being assessed additional fees by providing the requested information and referencing the control number listed above.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

LOREN HUETER

SIGNATURE

Loren Hueter

DATE

2-29-88

ACTION TAKEN

SIGNATURE

TITLE

DATE

## CONVERSATION RECORD

TIME

9:30

DATE

12-23-87

TYPE

☐ VISIT☐ CONFERENCE☒ TELEPHONE☐ INCOMING☒ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

Tom NEAL RSO

ORGANIZATION (Office, Dept., Bureau, etc.)

Consumer Power Company

TELEPHONE NO.

616-764-8913

SUBJECT

C/N 84184

ROUTING

NAME/SYMBOL

INT

## SUMMARY

1. Tom stated reason for mailing address change to Chicago plant was intended and was because he, as RSO, was located there.
2. although the proposed gas chromatograph is called "portable", Tom stated it will be used in a fixed location in a lab with fume hood for venting effluent from G.C. at the 135 West Trail St. lab location in Jackson.
3. Tom was informed that application <sup>dated 9-18-87</sup> for Amendment 21-18784-01 was deficient in that it did not provide Model No. of detector cell nor could we find any devices in sponsored search of device registry for the stated manufacturers, Thermo Environmental Instruments. Requested following:
  1. Manufacturer or distributor under whom detector cell registered
  2. Registry No. of detector cell
  3. Date of issuance of Registry No.

ACTION REQUIRED

(over)

Letter Request in 30 days

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Loren J. Hester

12-23-87

ACTION TAKEN

SIGNATURE

TITLE

DATE



4. Model & number of Detector cell

5. Type of foil in detector cell. Titanium tritide or  
scandium tritide?

6. Maximum activity on foil in one cell

Tom was also requested to provide above info in duplicate  
in 30 days and to reference control #.





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
799 ROOSEVELT ROAD  
GLEN ELLYN, ILLINOIS 60137

03014167  
03123  
4/90

BETWEEN: William O. Miller, Chief  
License Fee Management Branch  
Office of Administration  
  
Regional License Section  
Material Licensing Branch  
FCMS, Office of Nuclear Material  
Safety & Safeguards

LICENSE FEE TRANSMITTAL

A. REGION III

1. APPLICATION ATTACHED

Applicant/Licensee: Consumers Power Company

Application Dated: 9-18-87

Control No.: CONTROL NO 384184

License No.: 21-18784-01

2. FEE ATTACHED

Amount: 60.00

Check No.: 110149

3. COMMENTS

Signed S.O.

Date 9/22/87

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3P \$60

2. Correct Fee Paid. Application may be processed for:

Amendment ✓

Renewal       

License       

Signed CP

Date 10/1/87 9/30/87



General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

September 18, 1987

Nuclear Regulatory Commission  
Region III Material Licensing Section  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Re: By-Product License 21-18784-01 Docket No 030-14167 Amendment Application

Attached are two copies of an amendment application to By-Product License #21-18784-01. The intended purchase of a portable gas chromatograph with a 200 millicurie  $H_3$  (tritium) source necessitates this change to the referenced By-Product License.

A check in the amount of \$60.00 is enclosed in accordance with 10CFR170.31.3.p.

Brian D Johnson  
Staff Licensing Engineer

CC NRC Document Control Desk  
NRC Administrator, Region III

Attachment

RECEIVED

SEP 25 10:15

RECEIVED

SEP 21 1987

REGION III

CONTROL NO. 84184

OC0987-0157-NL02-NL04

~~8805060059~~ sp

SEP 21 1987



# APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

## FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20555

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIAL SECTION B  
831 PARK AVENUE  
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
MATERIAL RADIATION PROTECTION SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

## IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
MATERIAL RADIATION PROTECTION SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

## 1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☐ A. NEW LICENSE  
☒ B. AMENDMENT TO LICENSE NUMBER 21-18784-01  
☐ C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

## 2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Consumers Power Company  
Palisades Nuclear Plant  
27780 Blue Star Highway  
Covert, MI 49043

## 3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Laboratory and Field Technical Services  
135 West Trail St.  
Jackson, MI 49201

## 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

T.P. Neal - Radiation Safety Officer

## TELEPHONE NUMBER

(616) 764-8913 x 0595

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

## 5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

## 6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED

## 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE

## 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

## 9. FACILITIES AND EQUIPMENT

## 10. RADIATION SAFETY PROGRAM

## 11. WASTE MANAGEMENT

## 12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 170.31.3.P AMOUNT ENCLOSED \$ 60.00

## 13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR 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.

## SIGNATURE—CERTIFYING OFFICER

## TYPED/PRINTED NAME

## TITLE

## DATE

*K.W. Berry*

K.W. Berry

Director, Nuclear Licensing 9-18-87

## 14. VOLUNTARY ECONOMIC DATA

### a. ANNUAL RECEIPTS

<\$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
\$500K-750K	\$7M-10M
\$750K-1M	>\$10M

### b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

10,000

### c. NUMBER OF BEDS

-0-

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

☒ YES

RECEIVED

☐ NO

## FOR NRC USE ONLY

### TYPE OF FEE

### FEE LOG

### FEE CATEGORY

### COMMENTS

SEP 21 1987

### APPROVED BY

### AMOUNT RECEIVED

### CHECK NUMBER

CONTROL NO. 84184

REGION III

### DATE

9/30/87



Continued from NRC Form 313, Items 5-11

5. Radioactive Material

- A. Request the following source be added to existing byproduct license #21-18784-01:

<u>Element and Mass Number</u>	<u>Chemical/Physical Form</u>	<u>Maximum Amount In Possession</u>
Hydrogen-3 (tritium)	Liquid - encapsulated in container	200 millicuries

6. Purpose For Which Licensed Material Will Be Used

- A. Licensed material (H-3) will be used in a portable gas chromatograph electron capture detector assembly. The electron capture detector creates a low current required for sample analysis.

7. Individuals Responsible for Radiation Safety Program and Their Training/Experience

- A. See attached personnel resumes: (Attachment 1)  
TP Neal - Radiation Safety Officer  
GL Kelterborn - designated license user personnel  
DJ Snedeker - designated license user personnel  
MA Moore - designated license user personnel

8. Training For Individual Working In or Frequenting Restricted Areas

Not directly applicable as sources are integral components of the gas chromatographs.

9. Facilities and Equipment

- A. Under routine operating conditions, the exposure rate to the source detectors is less than 25% of the applicable value specified under 10CFR20.101. Personnel dosimetry is not required.
- B. Detector effluents will be vented into fume hood.

10. Radiation Safety Program

- A. Radioactive By-Products Material Program (see Attachment 2)

Palisades Administrative Procedure 7.10 "Radioactive By-Products Material Program"

Palisades Health Physics Procedure 10.15 "Trail Street Laboratory"

B. Servicing and Repairs

Servicing and/or repairs to the gas chromatographs (including source detectors) will be performed by the appropriate manufacturer (either Hewlett-Packard or Thermo Environmental Instruments, Inc.).

11. Waste Management

- A. No specific radwaste commercial services are necessary; however the gas chromatograph source detectors will either be returned to their respective manufacturers (Hewlett-Packard Co, Route 41, Avondale, PA 19311 or Thermo Environmental Instruments, 8 West Forage Parkway, Franklin, MA 02038) for final disposition or sent to a licensed burial facility.

RESUME

T P Neal - Radiation Safety Officer

Education and Training

Two years Chemical Engineering Program - Bay City Junior College

Work Experience

- 1983 - present - Consumers Power Company, Radioactive Material Control  
Administrator, Radiological Services Department
- 1983 - 1983 - Consumers Power Company, Senior Technical Analyst;  
Radiological Services Department
- 1976 - 1980 - Consumers Power Company, Palisades Nuclear Plant;  
Radiological Materials Control Supervisor
- 1974 - 1975 - Consumers Power Company, Palisades Nuclear Plant; Radiation  
Protection Supervisor
- 1969 - 1973 - Consumers Power Company, Palisades Nuclear Plant; Senior  
Radiation Protection/Chemistry Technician

Sources

Palisades Nuclear Plant, 1969-1980  
Palisades/Big Rock Point, 1980-1987

10 curie	Cs-137	Instrument Calibration
1 curie	Cs-137	Instrument Calibration
5 curie	Pu-Be	Instrument Calibration
0.1 curie	Cs-137	Area Monitor Calibration
500,000 curies	Co-60	Cobalt 60 Source Material
25,000 curies	MAP	Activated Components



RESUME

G L Kelterborn - General Laboratory Supervisor

Education and Training

6/81	Consumers Power Company	2-day Course	General Employee Training for Palisades Unescorted Access
6/79	Michigan State Univ.	Biochemistry	B.S.

Work Experience

4/83 - Present - Consumers Power Company, General Laboratory Supervisor;  
Laboratory Services Department

7/79 - 4/83 - Consumers Power Company, Chemist; Laboratory Services  
Department

Sources

Michigan State University, 1977-1979

micro-curie quantities	C-14	Radioisotope Tracer Studies
micro-curie quantities	P-32	Radioisotope Tracer Studies
thirty millicurie source	Ni-63	Gas Chromatograph Detector

RESUME

D J Snedeker - Senior Chemistry Technician

Education and Training

1976 - Consumers Power Company	1-Week Course	Introduction to Nuclear Power
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1973 - Michigan State University	Zoology	B.S. Degree
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Sources

Trail Street Laboratories 1979 - Present

300 millicurie source	Ni-63	Gas Chromatograph Detector
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Misc. other calibration sources in microcurie quantities



RESUME

M A Moore - Nuclear Technical Analyst

Education and Training

1984 - Chem-Nuclear Workshop	1-Week Course	Radwaste Packaging & Shipping
1983 - Harvard Office of Continuing Education	1-Week Course	Environmental Radiation Surveillance
1981 - Consumers Power Midland Training Center	1-Several Weeks	Various HP/Chemistry Technician Courses; basic through senior technician level
1980 - Ferris State College	Industrial Hygiene	B.S. Degree
1977 - Pikes Peak Comm. College, Colorado Springs, Colorado	Science	Assoc. Science

Work Experience

1983 - present - Consumers Power Company, Nuclear Technical Analyst, Radiological Services Department

1981 - 1983 - Consumers Power Company, Palisades Nuclear Plant, HP/Chemistry Technician

1981 - 1981 - CECOS/CER, Cincinnati, OH, Health and Safety Officer

1980 - 1981 - OH Materials Co., Findlay, OH, Health and Safety Officer

1971 - 1978 - Squad Leader, US Army, Ft. Carson, Co.

Sources

<u>Isotope</u>	<u>Maximum Amount</u>	<u>Where Experience Was Gained</u>	<u>Duration</u>	<u>Type of Use</u>
Cs-137	10 curie (sealed)	Palisades	1 3/4	Calibration Radwaste
Cs-137	1 curie (sealed)	Palisades	1 3/4	Calibration Radwaste
Mixed Fission Products	5-3000 curies	Palisades, CECOS	3 1/2 yrs.	Contaminated Materials
Mixed Fission Products	>100,000 curies	US Army	3 yrs.	Contaminated Materials, Special Weapons



TITLE: RADIOACTIVE BY-PRODUCTS MATERIAL PROGRAM

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TITLE: RADIOACTIVE BY-PRODUCTS MATERIAL PROGRAM

1.0 PURPOSE

To provide guidelines to ensure that license criteria and conditions are fulfilled by by-products licenses listed in Section 3.0.

2.0 SCOPE

This procedure applies to those departments of Consumers Power Company that have responsibilities for the Radioactive By-Products Material Licenses and State of Michigan Registrations listed in Section 3.0.

3.0 REFERENCES

3.1 SOURCE DOCUMENTS

None

3.2 REFERENCE DOCUMENTS

3.2.1 NRC Materials License #21-18784-01, Trail Street Laboratory, Jackson, MI

3.2.2 NRC Materials License #21-08606-06, J H Campbell Plant, West Olive, MI

3.2.3 NRC Materials License #21-08606-07, General Office TLD Laboratory, Jackson, MI

3.2.4 NRC Materials License #21-08606-10, D E Karn and J C Weadock Plant, Essexville, MI

3.2.5 Michigan Department of Public Health, Radioactive Material Registration Form #010564-01-LOH for Seaman Nuclear R-75 Moisture Density Gauge

3.2.6 Michigan Department of Public Health Registration Certificate, "Form For All Sources Of Ionizing Radiation" for Seacoal Nuclear Coal Monitors

4.0 RESPONSIBILITIES

The responsibilities for various aspects of the Radioactive By-Products License Program are distributed between the following departments and/or individuals.

4.1 RADIOLOGICAL MATERIAL CONTROL (RMC) ADMINISTRATOR

Has the overall responsibility for the By-Product Material Program including:

4.1.1 Provide a Radiation Safety Officer (RSO) for each license.

4.1.2 Maintains current license documents.



TITLE: RADIOACTIVE BY-PRODUCTS MATERIAL PROGRAM

- 4.1.3 Distribute license correspondence and documentation to department/plant contact.
- 4.1.4 Work in corporation with Palisades and Midland Nuclear Plants' personnel for technical support of licenses.
- 4.1.5 Conduct an annual review of the By-Products Materials Program at each department/plant location.
- 4.1.6 Submit By-Products Material License amendments to the NRC and Michigan Department of Public Health as required to keep licenses current and in good order.
- 4.1.7 Provide instructions and training to appropriate personnel for use of radiation detection instruments and emergency procedures.

4.2 DEPARTMENTS/BY-PRODUCTS LICENSE HOLDERS

Designate specific positions by job title to provide local responsibility, coordination and assistance for compliance with the conditions of the specific By-Products License including:

- 4.2.1 Provide letter of commitment designating responsible contact to RMC Administrator.
- 4.2.2 Maintain license documentation.
- 4.2.3 Maintain by-product handling and emergency instructions.
- 4.2.4 Maintain by-product lock-out procedures.
- 4.2.5 Maintain posting as per by-product license requirements.
- 4.2.6 Perform source inventory upon request of RMC.
- 4.2.7 Work in cooperation with Palisades and Midland Nuclear Plants for technical and/or emergency support.
- 4.2.8 Notify Radiological Services of any changes and/or conditions that may affect by-products or require RSO coverage.

4.3 NUCLEAR PLANTS

Provide technical support for the By-Products Material Program including:

- 4.3.1 Calibrate and maintain radiation survey instrumentation.
- 4.3.2 Perform source leak check and analysis upon request of RMC.



TITLE: RADIOACTIVE BY-PRODUCTS MATERIAL PROGRAM

- 4.3.3 Provide emergency assistance upon request of plant personnel or RMC Administrator.

5.0 PROGRAM GUIDELINES

The Radioactive By-Products Material Program is administered between RMC and the various departments/By-Products License Holders with technical support provided by Palisades and Midland Nuclear Plants.

- 5.1 RMC has basic responsibility for coordination of the By-Products Program and for providing an RSO for special conditions and emergencies. RMC shall keep License Holders/departments and Nuclear Plants current with license amendments and documentation, conduct annual audits of the program to maintain compliance and provide radiation survey instrument training by By-Products License Material Holders/Departments.
- 5.2 Department/By-Products License Holders administer the local By-Products Program by designating a responsible individual by job title to ensure compliance with conditions of the By-Products License. It is recommended that Karn/Weadock and Campbell designate the Technical Superintendent/Engineer and the TLD and Trail Street Labs designate the Lab Supervisor. The responsibilities include document posting and maintaining a license document file. The General Office TLD Lab, Karn/Weadock and Campbell Plants will have two radiation survey meters assigned with one of these meters in calibrated and operational condition for emergency use. A newly calibrated survey meter will be sent to the By-Products License Holder every six (6) months by RMC. The By-Products License Holder, upon receipt of the newly calibrated survey meter, will exchange it for the expired on-site survey meter. The expired survey meter will be returned to Radiological Services (Palisades) for recalibration. By-Products License Holders should also perform source inventories upon request of Radiological Services and provide notification of any condition change that affects the By-Products License and/or requires monitoring or disposal of By-Products Material/sources.
- 5.3 The Palisades Nuclear Plant has the responsibility for calibration and maintenance of radiation survey meters used by By-Products License Holders. The monitoring of radiation survey meter calibration status allows Palisades to provide for survey meter exchanges between By-Products License Holders and the nuclear plant every six (6) months; however, Radiological Services (Palisades) should initiate the meter exchange, as a calibrated survey meter must be on the By-Product License Holder's site at all times. It will sometimes be necessary for Nuclear Plant Radiation Safety Personnel to support source leak testing at the By-Products License Holder's operational site upon request of RMC and to also provide emergency assistance when notified of a source leak accident. Service areas for the Plants are as follows:  
Palisades - J H Campbell and L&F'S Dosimetry Lab; Midland - J C Weadock and Karn I and II.

TITLE: RADIOACTIVE BY-PRODUCTS MATERIAL PROGRAM

6.0 ATTACHMENTS AND RECORDS

6.1 ATTACHMENTS

None

6.2 RECORDS

Records of audits, training or license correspondence should be kept for five years except as noted by procedure.



PALISADES NUCLEAR PLANT  
HEALTH PHYSICS PROCEDURE

Proc No HP 10.15  
Revision 0  
Page i

TITLE: TRAIL STREET LABORATORY

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8.1 ATTACHMENTS . . . . .	2
8.2 RECORDS . . . . .	2



TITLE: TRAIL STREET LABORATORY

1.0 PURPOSE

Provide guidelines to ensure that the By-Products Material License criteria are fulfilled.

2.0 SCOPE

Maintenance of Ni-63 sealed source used in a Hewlett-Packard gas chromatograph.

3.0 REFERENCES

3.1 SOURCE DOCUMENTS

- 3.1.1 Palisades Administrative Procedure 7.10, "Radioactive By-Products Material Program"

3.2 REFERENCE DOCUMENTS

- 3.2.1 NRC By-Products License #21-18784-01 for Consumers Power Company Trail Street Laboratory

4.0 PRECAUTIONS AND LIMITATIONS

- 4.1 Only individuals listed on the By-Product user license are to take leak test smears.

5.0 PROCEDURE

- 5.1 The sealed source shall be leak tested within six (6) month intervals under supervision of Radiation Safety Officer (RSO) and/or his designate. Smear test should be analyzed or sent to a licensed vendor laboratory; however RSO should be contacted prior to actual sending of smears. Results of leak test should be forwarded to the RSO within four (4) days of test date and maintained on file. If leak test reveals presence of 0.005  $\mu\text{Ci}$  or more of removable contamination, immediately notify RSO so proper action can be taken. RSO must, as per NRC License #21-18784-01 (Reference 3.2.1), file a report with Region III, US NRC within five (5) days after date of leak test where 0.005  $\mu\text{Ci}$  or more of removable contamination is found.
- 5.2 By-Products Material License Holder will ensure that the radioactive source is used as per operating instructions of manufacturer and that unnecessary exposures to radiation is avoided. Due to uses, application and location of the source, the wearing of whole-body dosimetry is unnecessary; however, if work is to be done on source housing, the RSO should be notified as further dose evaluation may be necessary.

TITLE: TRAIL STREET LABORATORY

6.0 EMERGENCY GUIDELINES

- 6.1 Upon discovery of source damage, isolate the area to minimize the spread of contamination.
- 6.2 Limit personnel access to area until a complete radiation survey and leak test can be performed. Try to find out if any personnel were in immediate area prior to discovery of damaged source to eliminate possibility of contamination spread.
- 6.3 Notify Radiation Safety Officer immediately of situation. If he is unavailable or can't be located, go to next person on notification list.

Radiation Safety Officer, RMC Administrator

T P Neal, 192-0595  
Night: (616) 521-6139

Associate HP, RSD

M A Moore, 192-0307  
Night: (616) 637-6326

Chemistry Lab Personnel (as listed on By-Product License),  
Trail Street Laboratory

G L Kelterborn, 81723  
D J Snedeker, 81733

- 6.4 Radiation Safety Officer or designate will file a report with Region III, US NRC within five (5) days of incident describing equipment involved, test results, corrective action taken and damage (if any). Final disposition of incident and source material is responsibility of RSO.

7.0 ACCEPTANCE CRITERIA

Satisfactory completion of procedure.

8.0 ATTACHMENTS AND RECORDS

8.1 ATTACHMENTS

None

8.2 RECORDS

Records of leak test results shall be kept in microcuries and maintained for life of license (A01\*24\*30\*02/L).