

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
631 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 _____

☒ C. RENEWAL OF LICENSE NUMBER 35-19270-01

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

Kaiser Chemical
P.O. Box 99
Pryor, Oklahoma 74361

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

Licensed material to be used only at the licensee's facility located five miles southeast of Pryor, Oklahoma

8511180828 850909
REG4 LIC30
35-19270-01 PDR

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Mr. Bill Fraza

TELEPHONE NUMBER

918-825-2000

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.

see attached

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

see attached

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

see attached

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

see attached

9. FACILITIES AND EQUIPMENT

see attached

10. RADIATION SAFETY PROGRAM

see attached

11. WASTE MANAGEMENT

see attached

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

FEE CATEGORY 10CFR170.31-3P 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

JW (Bill) Fraza

J.W. (BILL) FRAZA

Maintenance Supt.

2/28/85

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)

c. NUMBER OF BEDS

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

NO

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APPROVED BY

AMOUNT RECEIVED

CHECK NUMBER

DATE

\$60.00

552044/552068

4/4/85

PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission
Director, Division of Fuel Cycle and Material Safety
Office of Nuclear Material Safety and Safeguards
Washington, D.C. 20555

Application for Material License Renewal
Kaiser Chemical
Pryor, Oklahoma
#35-19270-01

continued

5.

- | | | |
|---------------|--|---|
| A. Cesium-137 | A. Sealed source (Ohmart Model A-5771) | A. Not to exceed 2 curies per source |
| B. Cesium-137 | B. Sealed source (Ohmart Model A-5771) | B. Not to exceed 50 milli-curies per source |

6. Authorized use

- A. For use in Ohmart Model SHLM-C-2 source holders for level measurements.
- B. For use in Ohmart Model SHLM-B-1 source holders for level measurements.

7. Mr. Bill Fraza: Mr. Fraza has had the day-to-day responsibilities and Radiation Safety duties for all licensed activities under the 1975 and 1980 licenses. Resume on file with NRC.

Mr. Charles Fielden, Electrical Supervisor: Mr. Fielden has discharged day-to-day and radiation safety duties under the direct supervision of Mr. Bill Fraza since 1975. Resume attached.

Mr. John Holley, Production Superintendent: Mr. Holley has had instruction in the use and safety of the sources. By March 31, 1985, Mr. Holley will have completed 30 days of on-the-job training in the direct discharge of duties and radiation safety responsibilities of the sources. This training is being given by Mr. Fraza and Mr. Fielden.

- 8. There are no restricted areas associated with this program.
- 9. There have been no changes materially influencing facilities and equipment as related to the radiation safety and the use of sealed sources used under NRC License #35-19770-01. Information on file with NRC.
- 10. A. Personnel monitoring is not required under this license.
B. "Lock-out" mechanisms for vats containing sealed source are

on file with the NRC.

- C. Maintenance and repair requiring any potential of source manipulation will be done only by Ohmart representatives.
 - D. Any change in an existing state of a source (exposed or shielded) will be made only with the expressed permission of one of the individuals listed in Item #5.
 - E. Dr. David S. Gooden, Ph.D., Certified Radiological Physicist and Certified Health Physicist, will act as a consultant to Kaiser Chemical in matters regarding radiation safety.
 - F. Dr. David S. Gooden, NRC License #35-13797-01, will conduct periodic leak test and radiation surveys.
11. No new radioactive waste is generated under this programs. Sealed sources will be returned to Ohmart for disposal.

460559

SUPPLEMENTAL INFORMATION

INFORMATION:

OWNER OF SOURCE Kaiser Agricultural Chemical

ADDRESS OF OWNER Pryor, Oklahoma

TYPE OF ISOTOPE AND ACTIVITY ELK Level Gauge
#2327 - ~ 2000 mCi ^{137}Cs

IDENTIFICATION OR MODEL NO. #2328 - ~ 200 mCi ^{137}Cs

DATE WIPE WAS TAKEN 10.9.84

WIPE MADE BY David S. Gooden

(SIGNATURE)

CONTENTS:

1. ONE (1) SWAB FOR DRY WIPE (RED)
2. ONE (1) SWAB FOR WET WIPE (WHITE)
3. ONE (1) VIAL FOR DRY WIPE
4. ONE (1) VIAL FOR WET WIPE
5. ONE (1) INSTRUCTION-REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

46055-9

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA
 μCi

< 0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 beV

UPPER WINDOW: 950 beV

B.G. 141 C/MIN.

(RED) DRY + B.G. 138 C/MIN.

(WHITE) WET + B.G. C/MIN.

B.G. + STANDARD (0.004 μCi of ^{137}Cs): 2573 C/MIN.

X Wipe made only external surfaces only. No liquid sample available.

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74136

*NOTICE: THIS PAPER MUST BE RETURNED WITH WIPE SAMPLES

PLEASE SEE OTHER SIDE

INFORMATION:

OWNER OF SOURCE Kaiser Agricultural Chemical

ADDRESS OF OWNER Pryor, Oklahoma

TYPE OF ISOTOPE AND ACTIVITY ELK Level Gauge

IDENTIFICATION OR MODEL NO. #2326

DATE WIPE WAS TAKEN 10.9.84

WIPE MADE BY David S. Gooden

(SIGNATURE)

CONTENTS:

1. ONE (1) SWAB FOR DRY WIPE (RED)
2. ONE (1) SWAB FOR WET WIPE (WHITE)
3. ONE (1) VIAL FOR DRY WIPE
4. ONE (1) VIAL FOR WET WIPE
5. ONE (1) INSTRUCTION-REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA
 μCi

<0.0003

<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keV

UPPER WINDOW: 950 keV

B.G. 141 C/MIN.

(RED) DRY + B.G. 142 C/MIN.

(WHITE) WET + B.G. 139 C/MIN.

B.G.+STANDARD (0.004 μCi of G^{137}): 2573 C/MIN.

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74136

*Note: Wipe made on external surfaces
of source container. Also liquid
sample (~5cc) ~~taken~~ was taken from
valve area.

*NOTICE: THIS PAPER MUST BE RETURNED WITH SIPE SAMPLES

PLEASE SEE OTHER SIDE

INFORMATION:

OWNER OF SOURCE Kaiser Agricultural ChemicalADDRESS OF OWNER Pryor, OklahomaTYPE OF ISOTOPE AND ACTIVITY ELK Level GaugeIDENTIFICATION OR MODEL NO. #2327 - ~2000 mCi
#2328 - ~200 mCiDATE WIPE WAS TAKEN 4/13/84WIPE MADE BY David S. Gooden

(SIGNATURE)

CONTENTS:

1. ONE (1) SWAB FOR DRY WIPE (RED)
2. ONE (1) SWAB FOR WET WIPE (WHITE)
3. ONE (1) VIAL FOR DRY WIPE
4. ONE (1) VIAL FOR WET WIPE
5. ONE (1) INSTRUCTION-REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

460559

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA
 μCi

<0.0003

<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keVUPPER WINDOW: 950 keVB.G. 128 C/MIN.(RED) DRY + B.G. 128 C/MIN.(WHITE) WET + B.G. 132 C/MIN.B.G. + STANDARD (0.004 μCi of Cs^{137}): 2603 C/MIN.

CERTIFIED BY

DAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74136

*Note: Wipe made of external surfaces
of source container. Also, liquid
sample (~5cc) taken from oat
Area.

*NOTICE: THIS PAPER MUST BE RETURNED WITH WIPE SAMPLES

PLEASE SEE OTHER SIDE

INFORMATION:OWNER OF SOURCE Kaiser Agricultural ChemicalADDRESS OF OWNER Pryor, OklahomaTYPE OF ISOTOPE AND ACTIVITY ELK Level Gauge (50 mCi ^{137}Cs)IDENTIFICATION OR MODEL NO. #2326DATE WIPE WAS TAKEN 4/16/84WIPE MADE BY David S. Gooden
(SIGNATURE)CONTENTS:

1. ONE (1) SWAB FOR DRY WIPE (RED)
2. ONE (1) SWAB FOR WET WIPE (WHITE)
3. ONE (1) VIAL FOR DRY WIPE
4. ONE (1) VIAL FOR WET WIPE
5. ONE (1) INSTRUCTION-REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA μCi
<0.0003
<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keVUPPER WINDOW: 950 keVB.G. 128 C/MIN.(RED) DRY + B.G. 126 C/MIN.(WHITE) WET + B.G. 129 C/MIN.B.G. + STANDARD (0.004 μCi of ^{137}Cs): 2603 C/MIN.

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74136

* Note: Wipe made on external surfaces
of source container. Also, liquid
sample (5cc) taken from vat areas.

*NOTICE: THIS PAPER MUST BE RETURNED WITH SIPE SAMPLES

PLEASE SEE OTHER SIDE

INFORMATION:OWNER OF SOURCE Kaiser Agricultural ChemicalADDRESS OF OWNER Pryor, OklahomaTYPE OF ISOTOPE AND ACTIVITY ELK Level Gauge (~50 mCi Co-137)IDENTIFICATION OR MODEL NO. #2326DATE WIPE WAS TAKEN 10.20.83WIPE MADE BY David S. Gooden
(SIGNATURE)CONTENTS:

1. ONE (1) SWAB FOR DRY WIPE (RED)
2. ONE (1) SWAB FOR WET WIPE (WHITE)
3. ONE (1) VIAL FOR DRY WIPE
4. ONE (1) VIAL FOR WET WIPE
5. ONE (1) INSTRUCTION-REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

75509X

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA μCi
<0.0003
<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keVUPPER WINDOW: 950 keVB.G. 125 C/MIN.(RED) DRY + B.G. 124 C/MIN.(WHITE) WET + B.G. 128 C/MIN.B.G.+STANDARD (0.004 μCi of Co-137): 2589 C/MIN

*Note: Wipe made of external surfaces of source container. Also, liquid sample (~5cc) taken from vat area.

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74136

*NOTICE: THIS PAPER MUST BE RETURNED WITH SIPE SAMPLES

PLEASE SEE OTHER SIDE

INFORMATION:

OWNER OF SOURCE Kaiser Agricultural Chemical
ADDRESS OF OWNER Pryor, Oklahoma

TYPE OF ISOTOPE AND ACTIVITY ELK Level Gauge (Cs-137)

IDENTIFICATION OR MODEL NO. #2327 - ~ 2000 μ Ci
#2328 - ~ 200 μ Ci

DATE WIPE WAS TAKEN 10-20-83

WIPE MADE BY David S. Gooden
(SIGNATURE)

CONTENTS:

1. ONE (1) SWAB FOR DRY WIPE (RED)
2. ONE (1) SWAB FOR WET WIPE (WHITE)
3. ONE (1) VIAL FOR DRY WIPE
4. ONE (1) VIAL FOR WET WIPE
5. ONE (1) INSTRUCTION-REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA
 μ Ci

<0.0003

<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keV

UPPER WINDOW: 950 keV

B.G. 125 c/MIN.

(RED) DRY + B.G. 130 c/MIN.

(WHITE) WET + B.G. 128 c/MIN.

B.G.+STANDARD (0.004 μ Ci of Cs-137): 2589 c/MIN.

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74136

* Note: Wipe made of external surfaces
of source container. Also liquid
sample (~5cc) taken from vat
area.

*NOTICE: THIS PAPER MUST BE RETURNED WITH SIDE SAMPLES

PLEASE SEE OTHER SIDE

LEAK TEST KIT - MODEL 1000

LEAK TEST NUMBER

INFORMATION:

OWNER OF SOURCE

Kaiser Agricultural Chemical

ADDRESS OF OWNER

Pryor, Oklahoma

TYPE OF ISOTOPE AND ACTIVITY

ELK Level Gauge (~50 μ Ci Cs^{137})

IDENTIFICATION OR MODEL NO.

#2326

DATE WIPE WAS TAKEN

4.20.83

WIPE MADE BY

David S. Gooden

(SIGNATURE)

CONTENTS:

1. ONE (1) SWAB FOR DRY WIPE (RED)
2. ONE (1) SWAB FOR WET WIPE (WHITE)
3. ONE (1) VIAL FOR DRY WIPE
4. ONE (1) VIAL FOR WET WIPE
5. ONE (1) INSTRUCTION-REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA
 μ Ci

<0.0003

<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW:

50 keV

UPPER WINDOW:

950 keV

B.G. 126 C/MIN.

(RED) DRY + B.G. 135 C/MIN.

(WHITE) WET + B.G. 141 C/MIN.

B.G.+STANDARD (0.004 μ Ci of Cs^{137}): 2703 C/MIN.

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74136

*Note: Wipe made of external surfaces
of source container. Also, liquid
sample (~5 cc) taken from vat area.

*NOTICE: THIS PAPER MUST BE RETURNED WITH SIPE SAMPLES

PLEASE SEE OTHER SIDE

INFORMATION:OWNER OF SOURCE Kaiser Agricultural ChemicalADDRESS OF OWNER Pryor, OklahomaTYPE OF ISOTOPE AND ACTIVITY ELK Level II (Cs¹³⁷)IDENTIFICATION OR MODEL NO. #2327 ~2000 mCi
#2328 ~200 mCiDATE WIPE WAS TAKEN 4.20.83WIPE MADE BY David S. Gooden
(SIGNATURE)CONTENTS:

1. ONE (1) SWAB FOR DRY WIPE (RED)
2. ONE (1) SWAB FOR WET WIPE (WHITE)
3. ONE (1) VIAL FOR DRY WIPE
4. ONE (1) VIAL FOR WET WIPE
5. ONE (1) INSTRUCTION-REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA
μCi

<0.0003

<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keVUPPER WINDOW: 950 keVB.G. 126 C/MIN.(RED) DRY + B.G. 131 C/MIN.(WHITE) WET + B.G. 152 C/MIN.B.G.+STANDARD (0.004 μCi of Cs¹³⁷): 2703 C/MIN.

CERTIFIED BY

David S. GoodenDAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74136* Note: Wipe made of external surfaces
of source container. Also, liquid
sample (~5cc) taken from vat area.*NOTICE: THIS PAPER MUST BE RETURNED WITH SIPE SAMPLES

PLEASE SEE OTHER SIDE

LEAK TEST KIT - MODEL 1000

INFORMATION:

OWNER OF SOURCE Kaiser Agricultural Chemicals
 ADDRESS OF OWNER P.O. Box 99
Pryor, OK 74361
 TYPE OF ISOTOPE AND ACTIVITY EKL Level gauge Cs-137
#2921 appr 2000 mCi
 IDENTIFICATION OR MODEL NO. #2922 appr 2000 mCi
 DATE WIPE WAS TAKEN 10/21/82
 WIPE MADE BY David S. Gooden
 (SIGNATURE)

CONTENTS:

1. TWO (2) LARGE SWABS
2. TWO (2) SMALL SWABS
3. ONE (1) DRY COUNTING VIAL
4. ONE (1) WET COUNTING VIAL
5. ONE (1) INSTRUCTION REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)
 REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA μCi
<0.0003
<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keVUPPER WINDOW: 950 keVB.G. 178 C/MIN.DRY + B.G. 178 C/MIN.WET + B.G. 183 C/MIN.B.G. + STANDARD (0.004 μCi Cs-137): 2693 C/MIN.

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
 RADIOLOGICAL PHYSICIST
 6161 SOUTH YALE AVENUE
 TULSA, OKLAHOMA 74177

*NOTICE: THIS PAPER MUST BE RETURNED WITH WIPE SAMPLES

460559

LEAK TEST KIT - MODEL 1000

INFORMATION:

OWNER OF SOURCE Kaiser Agricultural Chemicals
 ADDRESS OF OWNER P.O. Box 99
Pryor, OK 74361
 TYPE OF ISOTOPE AND ACTIVITY ELK Level Guage (Appr. 50mCi Cs-137)
 IDENTIFICATION OR MODEL NO. #2323
 DATE WIPE WAS TAKEN 10/21/82
 WIPE MADE BY David S. Gooden
 (SIGNATURE)

CONTENTS:

1. TWO (2) LARGE SWABS
2. TWO (2) SMALL SWABS
3. ONE (1) DRY COUNTING VIAL
4. ONE (1) WET COUNTING VIAL
5. ONE (1) INSTRUCTION REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)
 REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA μCi
<0.0003
<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keV

UPPER WINDOW: 950 keV

B.G. 178 C/MIN.

DRY + B.G. 181 C/MIN.

WET + B.G. 176 C/MIN.

B.G. + STANDARD (0.004 μCi Cs 137): 2693 C/MIN

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
 RADIOLOGICAL PHYSICIST
 6161 SOUTH YALE AVENUE
 TULSA, OKLAHOMA 74177

*NOTICE: THIS PAPER MUST BE RETURNED WITH WIPE SAMPLES

LEAK TEST KIT - MODEL 1000

INFORMATION:

OWNER OF SOURCE Kaiser Agricultural Chemical
 ADDRESS OF OWNER Puyoi, Oklahoma
 TYPE OF ISOTOPE AND ACTIVITY ELK Level gauge (~50 mCi Cs^{137})
 IDENTIFICATION OR MODEL NO. #2326
 DATE WIPE WAS TAKEN 4.29.82
 WIPE MADE BY David S. Gooden
 (SIGNATURE)

CONTENTS:

1. TWO (2) LARGE SWABS
2. TWO (2) SMALL SWABS
3. ONE (1) DRY COUNTING VIAL
4. ONE (1) WET COUNTING VIAL
5. ONE (1) INSTRUCTION REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)
 REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA μCi
<0.0003
<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keV
 UPPER WINDOW: 950 keV
 B.G. 165 C/MIN.

Wipe - DRY + B.G. 158 C/MIN.

Vial - WET + B.G. 163 C/MIN.

B.G. + STANDARD (0.004 μCi Cs^{137}): 2741 C/MIN.

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
 RADIOLOGICAL PHYSICIST
 6161 SOUTH YALE AVENUE
 TULSA, OKLAHOMA 74177

* Note: Wipe made of external surfaces of source container. Also, liquid (5cc) sample taken from Vat area.

*NOTICE: THIS PAPER MUST BE RETURNED WITH WIPE SAMPLES

460559

LEAK TEST KIT - MODEL 1000

INFORMATION:OWNER OF SOURCE Kaiser Agricultural ChemicalADDRESS OF OWNER Pryor, OklahomaTYPE OF ISOTOPE AND ACTIVITY ELK Level gauge Cs¹³⁷IDENTIFICATION OR MODEL NO. #1327 ~ 2000 mCi
#2328 ~ 200 mCiDATE WIPE WAS TAKEN 4.29.82WIPE MADE BY David S. Gooden
(SIGNATURE)CONTENTS:

1. TWO (2) LARGE SWABS
2. TWO (2) SMALL SWABS
3. ONE (1) DRY COUNTING VIAL
4. ONE (1) WET COUNTING VIAL
5. ONE (1) INSTRUCTION REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA μCi
<0.0003
<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keVUPPER WINDOW: 950 keVB.G. 165 C/MIN.Wipe DRY + B.G. 164 C/MIN.Wet WET + B.G. 168 C/MIN.BG + STANDARD (0.004 μCi Cs¹³⁷): 274 C/MIN.

* Note: Wipe made of external surfaces of source container. Also, liquid (5cc) taken from vat area.

CERTIFIED BY

David S. GoodenDAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74177

*NOTICE: THIS PAPER MUST BE RETURNED WITH WIPE SAMPLES

LEAK TEST KIT - MODEL 1000

INFORMATION:OWNER OF SOURCE Kaiser Agricultural ChemicalADDRESS OF OWNER Pryor, OklahomaTYPE OF ISOTOPE AND ACTIVITY ELK Levelgauge (50mCi 137)IDENTIFICATION OR MODEL NO. #2326DATE WIPE WAS TAKEN 11-5-81WIPE MADE BY David S. Gooden & Bill Liza
(SIGNATURE)CONTENTS:

1. TWO (2) LARGE SWABS
2. TWO (2) SMALL SWABS
3. ONE (1) DRY COUNTING VIAL
4. ONE (1) WET COUNTING VIAL
5. ONE (1) INSTRUCTION REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA μ Ci
<0.0003
<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keVUPPER WINDOW: 950B.G. 179 C/MIN.Wipe - DRY + B.G. 182 C/MIN.Vial - WET + B.G. 183 C/MIN.B.G. + STANDARD (0.004 μ Ci 137): 2734 C/MIN.

CERTIFIED BY

David S. Gooden

DAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74177

* Note: Wipe made of external surfaces of
source container. Also, liquid (5cc)
sample taken from vat area.

*NOTICE: THIS PAPER MUST BE RETURNED WITH WIPE SAMPLES

PLEASE SEE OTHER SIDE

LEAK TEST KIT - MODEL 1000

INFORMATION:

OWNER OF SOURCE Kaiser Agricultural ChemicalADDRESS OF OWNER Puyor, OklahomaTYPE OF ISOTOPE AND ACTIVITY ELK Level gauge Cs¹³⁷IDENTIFICATION OR MODEL NO. #2327 ~ 2000 mCi
#2328 ~ 200 mCiDATE WIPE WAS TAKEN 11-5-81WIPE MADE BY David S. Gooden & Bill Fraza
(SIGNATURE)

CONTENTS:

1. TWO (2) LARGE SWABS
2. TWO (2) SMALL SWABS
3. ONE (1) DRY COUNTING VIAL
4. ONE (1) WET COUNTING VIAL
5. ONE (1) INSTRUCTION REPORT SHEET
6. ONE (1) RETURN MAIL PACKET

460559

DO NOT WRITE BELOW THIS LINE

REPORT:

REMOVABLE CONTAMINATION (WET SWAB)

REMOVABLE CONTAMINATION (DRY SWAB)

BETA-GAMMA μCi
<0.0003
<0.0003

SCINTILLATION DETECTOR

LOWER WINDOW: 50 keVUPPER WINDOW: 950 keVB.G. 179 C/MIN.wipe DRY + B.G. 184 C/MIN.vial WET + B.G. 182 C/MIN.B.G. + STANDARD (0.004 μCi Cs¹³⁷): 2734 C/MIN.

CERTIFIED BY

David S. GoodenDAVID S. GOODEN, PH.D.
RADIOLOGICAL PHYSICIST
6161 SOUTH YALE AVENUE
TULSA, OKLAHOMA 74177Note: Wipe made of external surfaces of
source container. Also, liquid (5cc)
sample taken from vat area.*NOTICE: THIS PAPER MUST BE RETURNED WITH WIPE SAMPLES

SUPPLEMENTAL INFORMATION

JOHN W. FRAZA, JR.
809 S. E. 15th St.
Pryor, Ok 74361
Telephone: 918-825-1871

RESUME

PERSONAL:

Date of Birth: February 24, 1922
Marital Status: Married
Health: Excellent
Height: 6'
Weight: 185

EDUCATION:

<u>Year</u>	<u>Degree</u>	<u>University</u>
1946	BS - Chemistry & Physics	Indiana State, Terre Haute, Indiana

Courses and Seminars

Oklahoma University extension courses in Personnel, Public Relations, and Supervisory Principles.

Northeastern Oklahoma University courses in Basic and Advanced Industrial Electricity. Ohmart Radiation Safety School

EMPLOYMENT HISTORY:

Kaiser Chemical Company (Formerly Nipak Inc.)
Pryor, Oklahoma
From: December 1979 to present
Position: Maintenance Superintendent

Duties and Responsibilities:

Current: Direct a work force of 4 supervisors and 24 craftsmen in the maintenance of 2 ammonia and 2 urea plants. Crafts involved include maintenance mechanics, machinists, welders, electricians, instrument mechanics, insulators, carpenters, painters and automotive mechanics. Facilities include electric and steam turbine drive pumps, 3 to 500 h.p.; 7 compressors of 1,500 to 4,000 h.p. operating from 500 psig to 12,000 psig, and several large high pressure vessels.

Coordinate maintenance with operations to maintain optimum production, and act as technical advisor to the Engineering Department.

Radiation Safety officer.

460559

RESUME

John W. Fraza

EMPLOYMENT HISTORY: cont'd.

Nipak, Inc. (Formerly John Deere Chemical Co.)
Pryor, Oklahoma
From: March 1954 to August 1978
Reason for Leaving: Entire plant shut down.
Position: Maintenance Superintendent

Duties and Responsibilities:

Direct a work force of 5 supervisors and 40 craftsmen in the maintenance of 2 ammonia and 2 urea plants. Crafts involved include maintenance mechanics, machinists, welders, electricians, instrument mechanics, insulators, carpenters, painters and automotive mechanics. Facilities include electric and steam turbine drive pumps, 3 to 500 h.p.; 7 compressors of 1,500 to 4,000 h.p. operating from 500 psig to 12,000 psig, and several large high pressure vessels.

Participate in union contract negotiations and grievance proceedings.

Act as Plant Manager during the latter's absence.

Coordinate maintenance with operations to maintain optimum production, and act as technical advisor to the Engineering Department.

Radiation Safety Officer.

Previous: Before promotion to present position in March 1972, served as Supervisor (Plant Operations) with some time devoted to warehousing & Shipping. Duties included:

- a) Supervision of 44 operators on 4 shifts.
- b) Coordination of operations with maintenance and engineering.
- c) Process study and product improvement.
- d) Direction of warehousing, loading of bags and bulk materials in trucks and railroad cars, and coordination with traffic and sales departments. (4 years in this activity)

OLIN INDUSTRIES, Liberty Powder Co., Newport, Indiana

Date of Employment: October 1952 to March 1954

Title: Production Supervisor

Duties: Directed a shift of 16 men in the manufacture of RDX explosives and formation of plastic explosives from RDX and TNT.

Reason for Leaving: Improvement on position.

RESUME

John W. Fraza

EMPLOYMENT HISTORY: cont'd.

SPENCER CHEMICAL CO., - Now a part of Gulf Oil Company
Date of Employment: February 1950 to October 1952
Title: Research Chemist
Duties: Research work in high pressure synthesis of many organic compounds.
Reason for Leaving: Future limited by lack of advanced degree.

COMMERCIAL SOLVENTS CORPORATION - Terre Haute, Indiana
Date of Employment: May 1947 to February 1950
Title: Research Chemist
Duties: High pressure research on amination, ammonolysis, chlorination and hydrogenation of aliphatic and aromatic compounds. I directed the work of six technicians in this position.
Reason for Leaving: Improvement of position.

HOOVER ELECTROCHEMICAL COMPANY - Niagara Falls, New York
Date of Employment - January 1943 to February 1946
Duties: Research, development and production of chlorinated and fluorinated aliphatic and aromatic hydrocarbons. These were primarily batch processes.
This work was in relation to the Manhattan Project.
Reason for Leaving: Reduction in force.

OTHER DATA:

Member of Board of Trustees, and member of Board of Deacons of the Presbyterian Church of Pryor, Oklahoma.
Boy Scouts of America: I was District Commissioner for 14 years and also served as Scoutmaster, Cubmaster, and various committees in scouting. I was awarded the Scouter's Key and the Silver Beaver.
Pryor Community Theatre: I was vice-president for one year, and have been the Technical Director for all their productions for four years, which involved designing and building sets for the productions presented.
International Maintenance Institute - Past President, Chairman of Board.
Hobbies include golf, fishing and woodworking.

Please see next page for business and personal references.

460559

BUSINESS AND PERSONAL REFERENCES:

G. L. Farrar
Chemical & Engineering Editor
Oil and Gas Journal
211 South Cheyenne
Tulsa, Oklahoma 74103

Ralph Moore
Automobile Dealer
903 Karen
Pryor, Oklahoma 74361

Dr. Dayle D. Creech, President (Retired)
Northeastern Oklahoma A & M College
Miami, Oklahoma 74354

Clifford Hobbs
Construction Superintendent (Retired)
Saudi Arabian Bechtel Company
1212 South Lewis
Pryor, Oklahoma 74361

O. F. McHenry
Plant Manager, Nipak, Inc. (Retired)
1101 South Lewis
Pryor, Oklahoma 74361

W. J. Sisson
Operations Superintendent, Nipak, Inc.
14 Ross Street
Pryor, Oklahoma 74361

S. V. Robertson
Mayes County Abstract Company
Owner
20 North Adair
Pryor, Oklahoma 74361

SUPPLEMENTAL INFORMATION

CERTIFICATE OF PROFICIENCY

THIS IS TO CERTIFY THAT

CHARLES FIELDEN

HAS SUCCESSFULLY COMPLETED THE OHMART TRAINING COURSE INCLUDING:
PRINCIPLES AND PRACTICES OF RADIATION PROTECTION, RADIOACTIVITY
MEASUREMENT AND MONITORING, MATHEMATICS AND CALCULATIONS, BIOLOGICAL
EFFECTS OF RADIATION, COMMON U.S.N.R.C. REGULATIONS, WASTE DISPOSAL
AND EMERGENCY PROCEDURES.

DATE: APRIL 15, 1980

ohmart technical
 **TRAINING SCHOOLS**

Frederick N. Dirling

FREDERICK N. DIRLING
TRAINING DIRECTOR

Certificate of Proficiency

This is to Certify that CHARLES FIELDEN

*has satisfactorily completed the Ohmart Technical
Training Course in the Use, Applications,
Operation, and Maintenance of
Ohmart Nuclear* LEVEL GAGES

Date APRIL 15, 1980


TRAINING DIRECTOR

THE OHMART CORP.
CINCINNATI, OHIO 45209

SUPPLEMENTAL INFORMATION

John W. Holley
Date of Birth: 7-12-23
Address: 1509 Merlin Circle, Pryor, OK 74361
Telephone: 918-825-6620

Present Position: Production Superintendent
Kaiser Chemical
Pryor, OK 74361
February 11, 1980 - Present

Background:

Allied Chemical, Omaha, Nebraska
Shift Supervisor, October 2, 1978 - January 31, 1980
Manufacture of Ammonia

Nipak Inc., Pryor, Oklahoma
Shift Supervisor, January 2, 1975 - September 30, 1978
Manufacture of Ammonia and Urea

Allied Chemical (Arkla Chemical) Helena, Arkansas
Shift Supervisor: December 28, 1970 - December 31, 1974
Manufacture of Ammonia and Urea

Nipak Inc., Pryor, Oklahoma
Asst. Shift Supervisor: June 1965 - October 31, 1970
Reason for leaving: Job eliminated
Manufacture of Ammonia and Urea

Nipak, Inc. & John Deere Chemical Co., Pryor, Oklahoma
"A" Operator, Urea Plant 1954 - 1965

TVA Phosphate Development Works, Muscle Shoals, Ala.
Operator 1952 - 1954
Manufacture of nerve gas

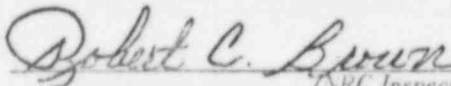
Monsanta Chemical Co., Anniston, Ala.
Operator 1947 - 1952
Manufacture of fine chemicals from chlorine

U. S. Navy 1943 - 1945

460559

SUPPLEMENTAL INFORMATION

INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGMENT

1. LICENSEE KAISER AGRICULTURE CHEMICALS P.O. Box 99 PRYOR, OKLAHOMA 74361		2. REGIONAL OFFICE 	
3. DOCKET NUMBER(S) 30-17245	4. LICENSE NUMBER(S) 35-19270-01	5. DATE OF INSPECTION DEC 9, 1981	
6. INSPECTION FINDINGS The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:			
<input checked="" type="checkbox"/> No items of noncompliance or unsafe conditions were found.			
The following items of noncompliance related to records, signs, and labels were found:			
<input type="checkbox"/> A. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA. 10 CFR 20.203(b) or 34.42			
<input type="checkbox"/> B. Rooms or areas were not properly posted to indicate the presence of a HIGH RADIATION AREA. 10 CFR 20.203(c) (1) or 34.42			
<input type="checkbox"/> C. Rooms or areas were not properly posted to indicate the presence of an AIRBORNE RADIOACTIVITY AREA. 10 CFR 20.203(d)			
<input type="checkbox"/> D. Rooms or areas were not properly posted to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(e)			
<input type="checkbox"/> E. Containers were not properly labeled to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(f) (1) or (f) (2)			
<input type="checkbox"/> F. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b)			
<input type="checkbox"/> G. Form NRC-3 was not properly posted. 10 CFR 20.206(c)			
<input type="checkbox"/> H. Records of the radiation exposure of individuals were not properly maintained. 10 CFR 20.401(a) or 34.33(b)			
<input type="checkbox"/> I. Records of surveys or disposals were not properly maintained. 10 CFR 20.401(b) or 34.43(d)			
<input type="checkbox"/> J. Records of receipt, transfer, disposal, export or inventory of licensed material were not properly maintained. 10 CFR 30.51, 40.61 or 70.51			
<input type="checkbox"/> K. Records of leak tests were not maintained as prescribed in your license, or 10 CFR 34.25(c)			
<input type="checkbox"/> L. Records of inventories were not maintained. 10 CFR 34.26			
<input type="checkbox"/> M. Utilization logs were not maintained. 10 CFR 34.27			
<input type="checkbox"/> N. Records of radiation survey instrument calibration were not maintained. 10 CFR 34.24			
<input type="checkbox"/> O. Records of teletherapy electrical interlock tests were not maintained as prescribed in your license.			
<input type="checkbox"/> P. Other _____			
 (NRC Inspector)			
7. The NRC Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.			
_____ (Date)		_____ (Licensee Representative - Title or Position)	

ORIGINAL TO LICENSEE

8202010353 14