

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 24-20346-01
☒ B. AMENDMENT TO LICENSE NUMBER
☒ C. RENEWAL OF LICENSE NUMBER 24-20346-01

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

Cargill Inc.
2306 Rochester Ave.
Kansas City, Missouri 64120

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

Cargill Inc.
2306 Rochester Ave.
Kansas City, Missouri 64120

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Richard D. Bell

TELEPHONE NUMBER

816-245-0531

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

8804260353 870930
REG3 LIC30
24-20346-01 PDR

10. RADIATION SAFETY PROGRAM

11. WASTE MANAGEMENT

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

FEE CATEGORY AMOUNT
ENCLOSED \$

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

Richard D. Bell

TYPED/PRINTED NAME

Richard D. Bell

TITLE

Plant Superintendent

DATE

6-24-87

14. VOLUNTARY ECONOMIC DATA

A. ANNUAL RECEIPTS

<\$250K
\$250K-\$500K
\$500K-\$750K
\$750K-\$1M

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

\$1M-\$3.5M
\$3.5M-\$7M
\$7M-\$10M
>\$10M

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

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

Item 5

- a. CS - 137
- b. Sealed Source, Texas Nuclear Model 570 - 571157C
- c. 1 x 50 Millicuries

Item 6

The application of the device is as a level detector in a soybean oil solvent extractor. The device will measure the depth of the bed of incoming, raw soybean flakes which are moved through the extraction phase by an en masse conveyor. The level detector will control the speed of this conveyor thereby assuring that the maximum input quantity is maintained for safe and efficient operation of the extractor. There are no severe environmental conditions that can effect the integrity of the source and shielding. All environmental factors have been presented to the manufacturer prior to specifying this device.

Item 7

Richard D. Bell - July 1985
Delbert Long - July 1985

The above personnel were furnished with detailed instructions on the proper precautions to be taken in utilizing this device. Specific items of design detail, shutter operation, beam geometry, radiation levels and regulatory compliance were presented by trained personnel of Texas Nuclear at the time this device was installed.

Item 8

All personnel were instructed at the time of installation, by trained personnel of Texas Nuclear as to the size and location of the beam, the radiation levels in the beam and were cautioned that unless the shutter is closed these radiation levels are significant. Each new employee is instructed by Richard Bell at time of employment on this devices use and precautions to be taken.

Item 9

1. See attached drawings
2. The guage is exposed to ambient temperatures that do not exceed plus or minus operating temperatures specified by the manufacturer.
3. N.A.
4. N.A.
5. This guage is checked on a monthly basis during our normal shutdown for repairs.

6. The emergency procedures to be followed in the event of accidents involving damage to the guare are as follows:

- A. Notify Richard D. Bell 816-525-7148 - home
 816-245-0531 - work
- B. Notify NRC
- C. In the even some catastrophie emergency occurs and this device is involved, we will notify Texas Nuclear and await further instructions.

Item 10

- A. During normal operation no individual has access to the vessel. The contained material and operating parameters preclude the access of any major portion of the body to the radiation field. Only authorized personnel are allowed to change the operating parameters and/or authorize access. Any access is permitted only with a signed "Confined Space Entry Permit" (see enclosed). Failure to abide by this procedure results in disciplinary action up to and including discharge.

This Confined Entry Permit can only be issued if the operation is shut down and all safety procedures have been followed, including the shutter being closed and locked by the authorized person. The key to the shutter is maintained by the authorized person and the shutter remains closed during the entire duration of the down time.

Item 10.1

- A. The source holder will be tested for source integrity at least once every three (3) years. The testing will be done by Texas Nuclear using their procedure QT/1K.
- B. Any repair, relocation or removal of the source holder will be done by Texas Nuclear personnel.

Texas Nuclear
P.O. Box 9267
Austin, TX 78766

Item 10.2

No radiation detection instrumentation is necessary to safely possess and utilize this device. The source holder is designed such that radiation levels will be less than 5 MR/h one foot from any accessible surface at the maximum source loading for the device with the device in the OFF position. With the shutter open, a culminated beam of radiation exists between the source head and detector traversing the

vessel being monitored. It is not likely, when consideration is given to the design of the device, the precautions to be taken for entry into the vessel and the minimal accessibility, that any individual will receive a radiation exposure in excess of 0.125 rem per calendar quarter.

Item 10.3

Any calibration or service work of any type will be performed by:

Texas Nuclear
P.O. Box 9267
Austin, TX 78766

Item 10.4

The sealed source shall be tested for leakage and/or contamination at three year intervals.

Time tables and test kits along with test results are provided by:

Texas Nuclear
P.O. Box 9267
Austin, TX 78766
Test procedure QT/1K

Item 10.5

Lock out procedures are outlined in Item 10.0 (see Confined Space Entry Permit) enclosed.

Item 10.6

N.A.

Item 11

No waste disposal is involved. In the event that the gauge is damaged or its' use discontinued, we will notify Texas Nuclear for removal and return the gauge to them for repair or disposal.

Kansas City, Missouri

June 29, 1987

NOTICE

This is to inform you that Dick Bell is the safety director in regards to the Texas Nuclear Level Controller on the extractor.

Any questions or work should be directed through him. In his absence, questions or work should be directed through Delbert Long.

Dick Bell

Dick Bell
Plant Superintendent



