

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 24-20346-01
☒ 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 EQUIPMENT

10. RADIATION SAFETY PROGRAM

11. WASTE MATERIAL

8801280245 870930
REG3 LIC30
24-25817-01 PDR

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

FEE CATEGORY AMOUNT ENCLOSED \$

13. CERTIFICATION: (Must be completed by applicant. The applicant certifies 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	\$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

App

FEE LOG

July-10

FEE CATEGORY

3P

COMMENTS

APPROVED BY

QR

AMOUNT RECEIVED

\$149 + 1/8

CHECK NUMBER

593620

CONTROL NO 83881

DATE

8/21/87

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 shut-down for repairs.

CONTROL NO 83881

CONTROL NO. 83

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 catastrophic 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 prcedures 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/IK.
- 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 guage is damaged or its' use discontinued, we will notify Texas Nuclear for removal and return the guage to them for repair or disposal.

Kansas City, Missouri

June 29, 1987

NOTICE

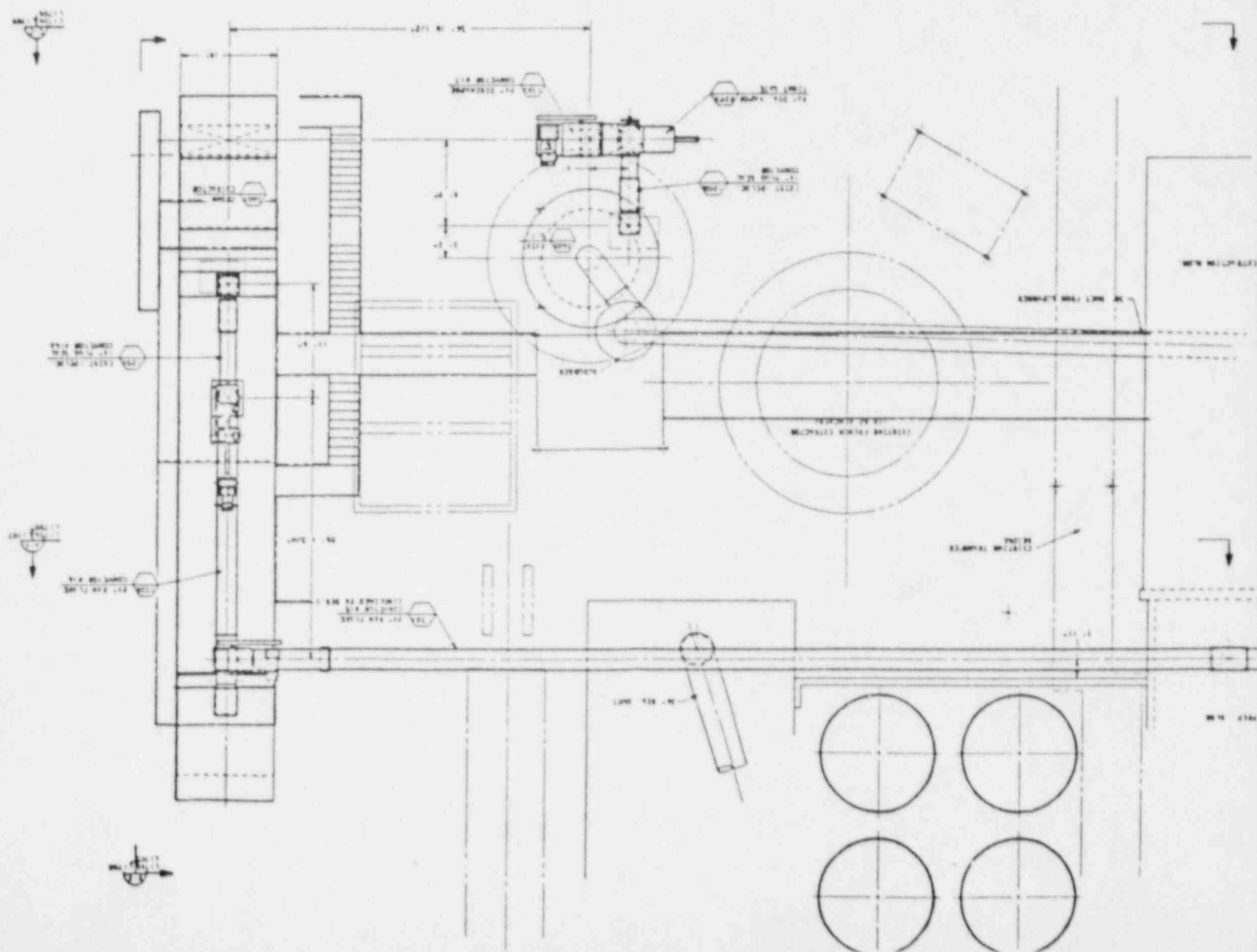
This is to inform you that Dick Bell is the safety director in regards to the Texas Nuclear Level Controller on the extractor.

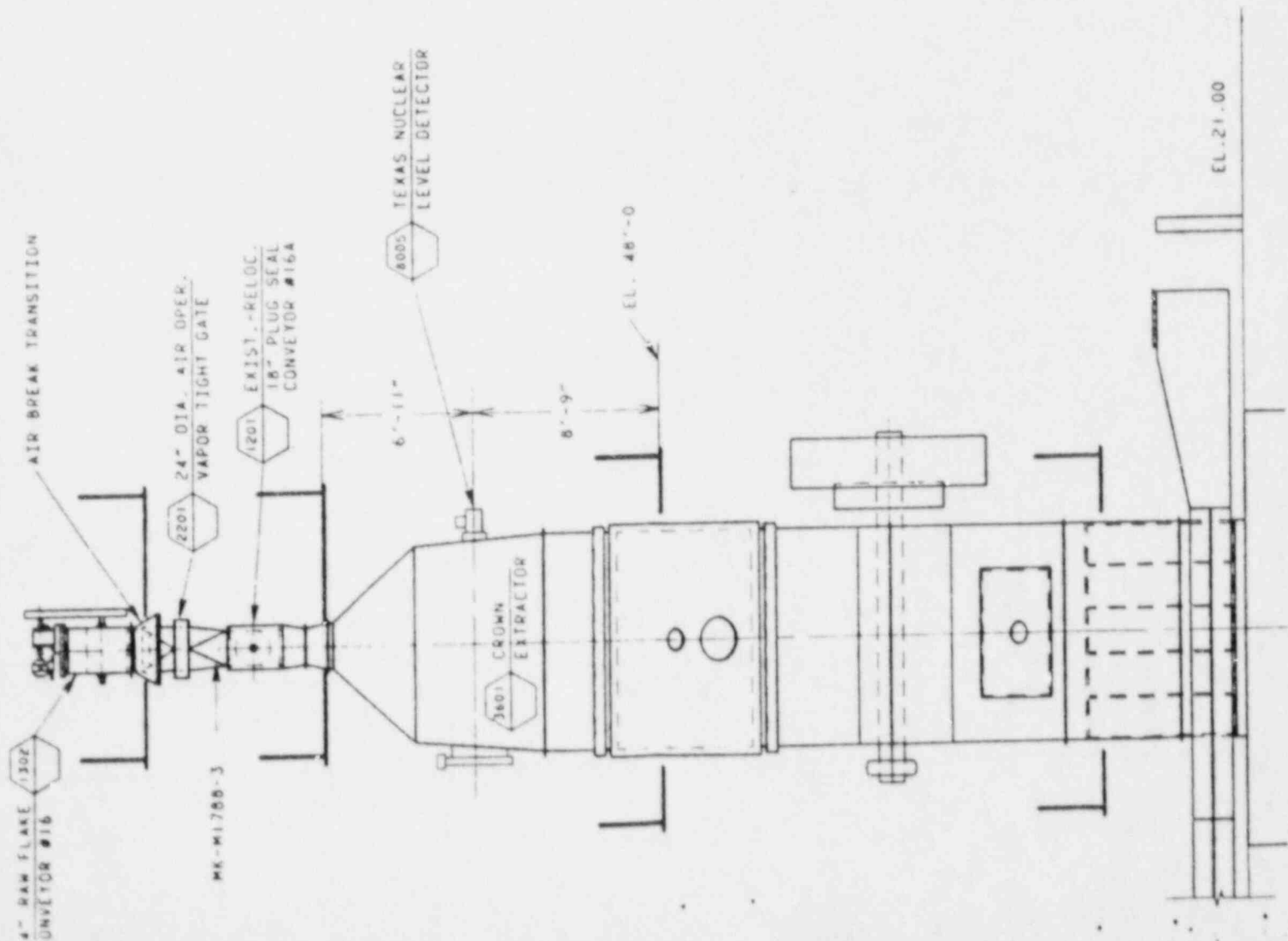
Any questions or work should be directed through him. In his absence, questions or work should be directed through Delbert Long.

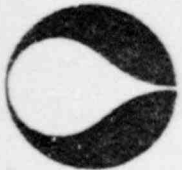
Dick Bell

Dick Bell
Plant Superintendent

CONFIDENTIAL







CARGILL INCORPORATED

DSP
Office

P O BOX 33413
KANSAS CITY MO 64120

Pay to
The order of

U. S. NUCLEAR
REGULATORY COMM.
799 ROOSEVELT ROAD
GLEN ELLYN IL 60137

Norwest Ban^{ks} Minneapolis, N.A.
Minneapolis, Minnesota

Cargill, Incorporated

By, H E Culbertson
An authorized signature

17-1
910

Date	Number
6-26-87	593620

Amount
\$\$\$149.00**

⑈222593620⑈ ⑆091000019⑆ 07 81 900⑈

Detach before presenting for payment

In payment of
LICENSE FEE

593620

CARGILL INCORPORATED

Processing Group

FORM XPR-10 REV. 11/83

SETTLEMENT NO	JOB	GROUP	SEQUENCE
537268	163	01	15

CONTROL NO 83881

AUG 6 1987

Gentlemen:

This refers to your application dated June 24, 1987, for renewal of Materials License 24-20346-01 and informing us that Cargill, Inc. has purchased the Soybean Division of Ralston Purina Company, to whom the license is issued.

We received your check for \$149. We have been advised by the Licensing staff that it will be necessary to consider the issuance of a new license for your request, for which an application fee of \$230 is required as specified in §170.31 (3P) of 10 CFR 170, copy enclosed. Payment of the additional \$81 should be made to the U.S. Nuclear Regulatory Commission and mailed to the attention of Cheryl Phillips at our Washington, D.C. address.

Your application will be processed by the Region III Licensing staff located at 799 Roosevelt Road, Glen Ellyn, Illinois 60137. The additional fee, however, is required prior to issuance of the license. When submitting the fee, please refer to CONTROL NUMBERS 383881 and 383777.

Sincerely,

Signed by:
Glenda Jackson

Glenda Jackson
License Fee Management Branch
Division of Accounting and Finance
Office of Administration and
Resources Management

Enclosure:
10 CFR 170

cc: Region III

DISTRIBUTION:
Pending Fee File
CPhillips, LFMB
ARM/DAF R/F
LFMB R/F (2)
DW/RIII/Cargill, Inc.

8801280222 /p
OFFICE : ARM/LFMBY ARM/LFMB : ARM/LFMB : : :
SURNAME : M Messier:rej G Jackson : : : :
DATE : 8/6 /87 : 8/6 /87 : : : :