

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:

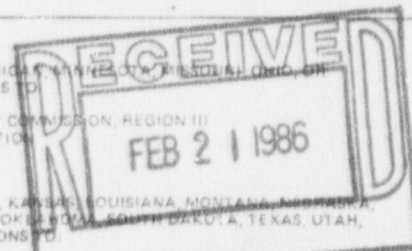
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
799 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

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 35-19587-01
☒ C. RENEWAL OF LICENSE NUMBER 35-18326-01

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

Tosco Corporation
P.O. Box 820
Duncan, OK 73534

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

Tosco Corporation
5 miles south of Duncan on old Highway 81

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

Mike Cornforth

TELEPHONE NUMBER
405-255-4400

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 MAN:

8801050535 870710
REG4 LIC30
35-19587-01 PDR

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

FEE CATEGORY 3E AMOUNT ENCLOSED \$ 170.00

13. CERTIFICATE BINDING UPON:

IS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE

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

Refinery Manager

DATE

R.G. Gordon

R.G. Gordon

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 CODE

FEE CATEGORY

COMMENTS

APPROVED BY

Renewal Feb 3 IV

3P

H. Jackson

AMOUNT RECEIVED

CHECK NUMBER

DATE

\$170 (50% paid)

00126954

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2/27/86

- | | | |
|---------------------|----------------------|-----------------------------------|
| 5. a. 1) Cesium 137 | b. Sealed Source (3M | c. Not to exceed 300 millicuries/ |
| 2) Cesium 137 | Model 4F65) | same |
| | Sealed Source (Texas | Not to exceed 20 millicuries |
| | Nuclear 570-57157C) | per source |

6. Uses:

- 1) For use in CE-IN-VAL-CO Model SH-581 source holders for level measurement in delayed coker drum
- 2) For use in Texas Nuclear Model 5192 source holders for level measurement in HF Acid Regenerator Tower.

7. Responsible Individual: J. R. Blackerby

Mr. Blackerby has had many years experience working with level indicators (radioactive). In April, 1981, three new Texas nuclear level indicators were installed on an HF Acid Regenerator. At this time training was provided on the use and maintenance of the level indicators by the manufacturers.

8. Mike Cornforth has been trained by Mr. Blackerby in the lockout operation and wipe portion of the wipe-test.

All other personnel whose work responsibilities require them to be in the area of the level indicators have been informed as to their locations, the fact that they contain radioactive sources and precautions that should be taken before working in those areas where exposure could occur.

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9. Facilities and equipment

- 1) Attached are drawings showing the locations of the radioactive sources on the refinery equipment.
- 2) Environmental conditions to which the sources will be subjected to include temperatures above ambient and a slightly corrosive atmosphere but no more than any other instrumentation or equipment in a refinery.
- 3) No external cooling systems is required.
- 4) Same as 3.
- 5) Sources and source holders are inspected semi-annually.
- 6) Any damage to a source or source holder is reported directly to the plant radiation officer. J.R. Blackerby @ 255-2733.

10. Radiation safety program.

Installation, radiation surveys, maintenance, leak-testing, device relocation or renewal or any other service necessary to the radiation sources as performed by

Texas Nuclear
Box 9267
Austin, TX 78766
512-836-0801
NRC License No. 42-01485-04

Leak tests are performed every six months using Texas Nuclear QT/1K Leak Test kits.

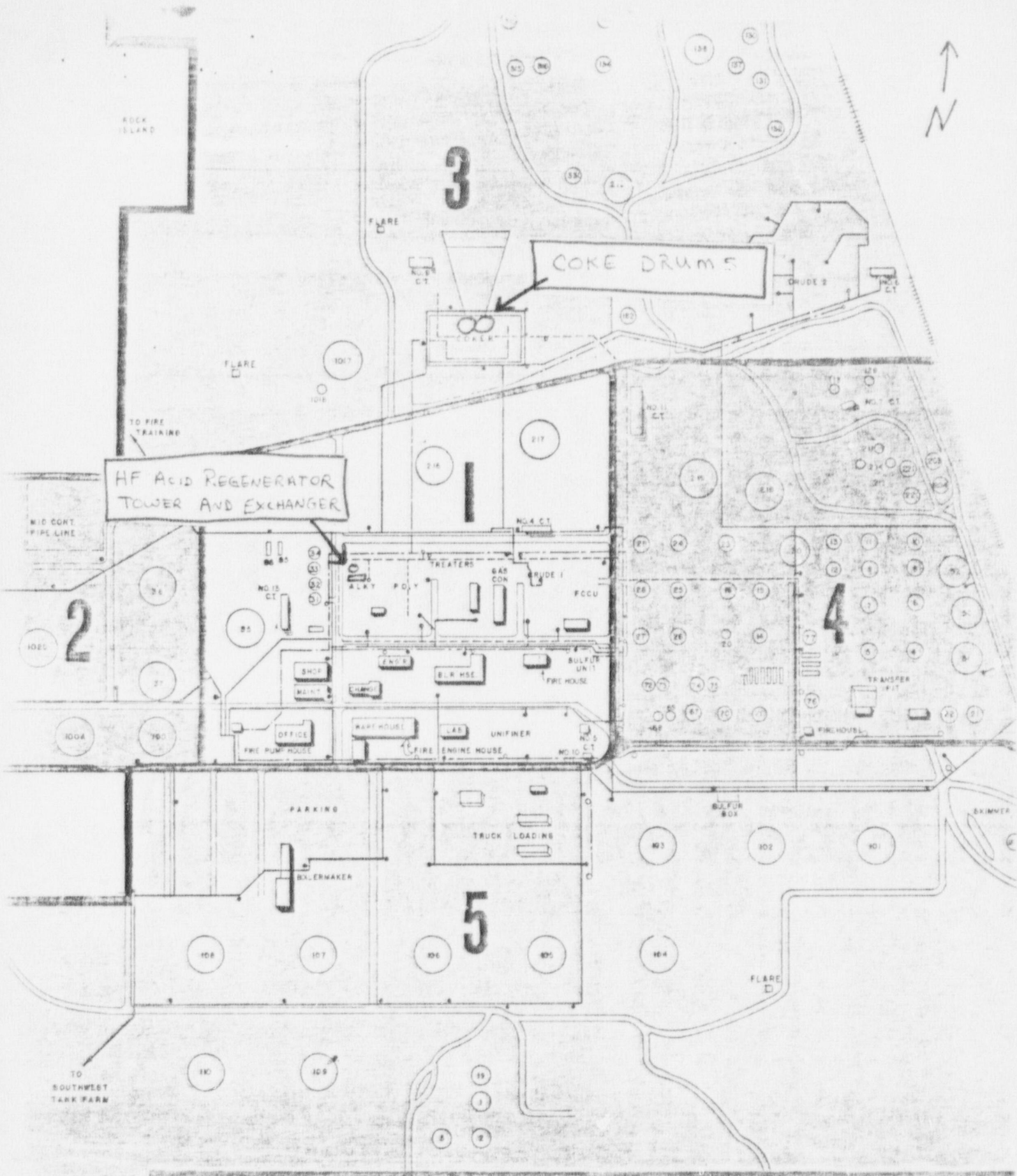
As standard procedure no personnel are allowed to enter any tank or vessel in the refinery without permission from the Safety Department. All Safety Department personnel are aware of the locations of all radioactive sources. No entry to a vessel will be allowed until the Radiation Officer has performed the lock-out procedure on all radioactive devices affixed to that vessel.

11. Waste Management

When a radioactive source is to be taken out of service the item will be transferred to an authorized recipient.

12. Attached is a check for \$170.00 for the license renewal fee for possession and use of byproduct material in sealed sources for irradiation of materials in which the source is not removed from its shield.

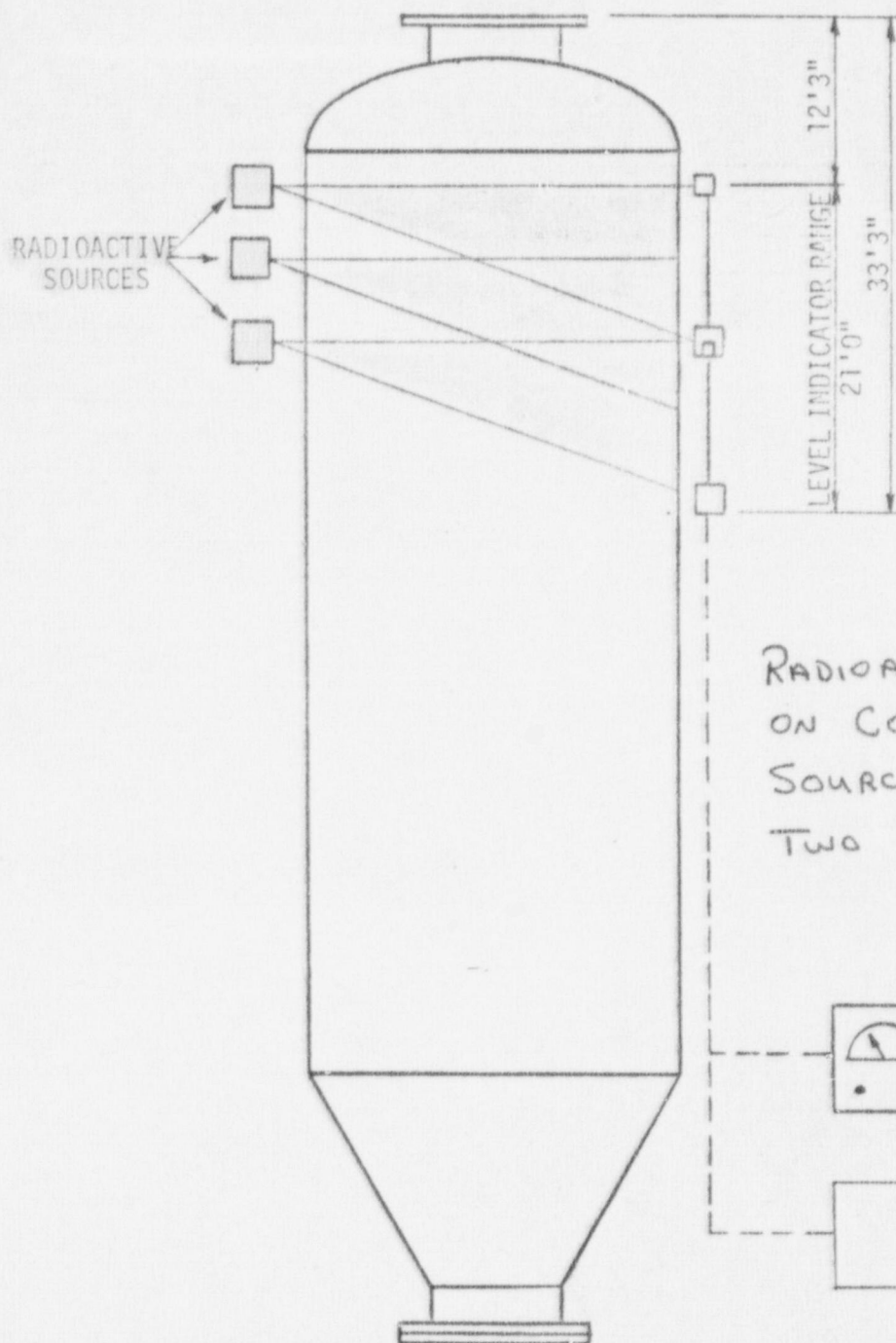
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LOCATIONS OF VESSELS
WITH RADIOACTIVE
SOURCES ON
REFINERY PLOT PLAN

| | | |
|-----------------------------|---------|-------|
| GENERAL MAP | AIRPORT | UG-34 |
| SITUATION FIRE WATER SYSTEM | NUR | UG-35 |
| UG-36 | UG-37 | UG-38 |
| UG-39 | UG-40 | UG-41 |

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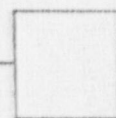


| COKE OR FOAM LEVEL (OUTAGE) | INSTRUMENT READING(%) |
|-----------------------------------|--------------------------|
| 12' 3" | 100 |
| 14' 4" | 90 |
| 16' 5" | 80 |
| 18' 7" | 70 |
| 20' 8" | 60 |
| 22' 9" | 50 |
| 24' 10" | 40 |
| 27' 0" | 30 |
| 29' 1" | 20 |
| 31' 2" | 10 |
| 33' 3" | 0 |

RADIOACTIVE SOURCE LOCATIONS
ON COKE DRUMS. THREE
SOURCES ON EACH OF
TWO DRUMS.



BOARD MOUNTED
LEVEL INDICATOR



BOARD MOUNTED
LEVEL RECORDER

AFE 78036

| | | | | |
|-------------------|----------|------------------------------|----------------------|-------------------------------------|
| | | COKE DRUM LEVEL INDICATOR | | |
| | | SUN OIL CO. | | |
| TITLE | DWG. NO. | DRAWN <i>BWM</i> | SCALE <i>C=1</i> | DWG. NO. |
| REFERENCE DRAWING | | CHECKED | DATE <i>12-12-79</i> | AK-17 SHEET <i>1</i> OF <i>1</i> |

