

030-2271

L+L=20858

NRC FORM 312
(11-84)
10 CFR 30, 32, 33, 34,
35 and 40U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3150-0120
Expires: 5-31-87

APPLICATION FOR MATERIAL LICENSE

03121

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 19406ALABAMA, 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 60137ARKANSAS, 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 76011ALASKA, 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 _____

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

Capaldi Bros Corp
226 So. Main St.
Providence R. I. 02901

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

Capaldi Bros. Corp. And at temporary job sites throughout the United States where the U.S.
718 G.A.R. Highway Nuclear Regulatory Commission maintains jurisdiction over the use of
Swansea, Ma. 02777 by-product material.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

TELEPHONE NUMBER

Bernard L. Alderson

617-673-5862

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

8508130343 850726

REG 1 LIC 30

38-20858-01

PDR

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT

12. LICENSEE FEES (See 10 CFR 170 and Section 170.37)

FEE CATEGORY

3P

AMOUNT

ENCLOSED \$ 230.00

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

Michael A. Favicchio

Michael A. Favicchio

Vice President

5-24-85

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)

N/A

c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Quarter 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

AMOUNT RECEIVED

CHECK NUMBER

Application

June 6-7

3P

\$230

16519

"OFFICIAL RECORD COPY"

ML10

03903

APPROVED BY

DATE

JUN 03 1985

Capaldi Bros. Corporation

226 South Main Street - P.O. Box 1395
 Providence, Rhode Island 02901
 Telephone 401-421-4000

Asphalt - Aggregate Division 718 Grand Army Highway, Swansea, Mass. 02777 617-673-5864

May 24, 1985

U. S. Nuclear Regulatory Commission
 NRC Form 313

ITEM 5	A. Radionuclei	B. Form	C. Troxler Drawing#	D. Maximum Amount not to exceed 9 mCi per source. not to exceed 44mCi per source.
5A.	CS-137	Metal Solid	A-102112	
5B	AM-241:Be	Metal Solid	A-102451	

ITEM 6. Purposes for which licensed material will be used.

To be used in Troxler Model 3400 Series Surface Moisture/Density Gauge to measure properties of asphalt roads and soils.

ITEM 7. Individual responsible for Radiation Safety Program.

Bernard L. Alderson BSCE University of Rhode Island.
 Individual listed has completed the Troxler Nuclear Gauge Training Course.


ITEM 8. Training for Individuals.

All users will attend the Troxler Nuclear Gauge Training Course prior to the use of the Nuclear Density Gauge.

ITEM 9. Facilities and Equipment.

Sketch attached.

ITEM 10. Radiation Safety Program: See attached sheet



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Radiation Safety Program

1. Radiation safety officer

A. Bernard L. Alderson has been designated as the company Radiation Safety Officer and will assume the duties and responsibilities that include the following:

1. To ensure that all terms and conditions of the license are being met and that the information contained in the license is up-to-date.
2. To ensure that the equipment has been leak tested in the required timely manner and that the leak test is performed in the manner prescribed by the equipment manufacturer.
3. To ensure that the use of the equipment is only by individuals that have been authorized by the Radiation Safety Officer and that all users wear personnel monitoring equipment when utilizing the equipment.
4. To maintain the records as required by the license and the regulations. These records shall include personnel exposure records, leak test records and training certificates for all users.
5. To ensure that the equipment is properly secured against unauthorized removal at all times when it is not in use.
6. To serve as a point of contact and give assistance in case of emergency such as equipment damaged in the field or theft and to notify the proper authorities in case of emergency.
7. To ensure that all users have read and understand the radiation safety operating and emergency procedures.
8. To post NRC notice to employees in a highly visible area.
9. To post "Warning Radioactive Material" on the storage location.
10. To keep quarterly film badge reports & leak tests.



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Radiation Safety Program

2. Operating Procedures

A. Transportation of Equipment

1. All possible means shall be provided to ensure that the equipment is fully secured in the transporting vehicle and the equipment is away from the passenger compartment. When transporting in an enclosed vehicle (car or van), the vehicle will be locked. When transporting in an open bed vehicle, the gauge should be securely fastened and locked to the truck bed.
2. The gauge will be transported in the TROXLER transportation case. The U.S. Department of Transportation requires that the gauge be transported in a properly labeled carrying case.
3. At all times during transport, the operator will have a properly completed Bill of Lading for each gauge, and have a copy of the emergency procedures as outlined in 3A.

B. Utilization Procedures

1. When the gauge is in the field, we as the authorized user will maintain control over the gauge at all times. The gauge will never be left unattended.
2. When not making measurements, the gauge should be placed in the transportation case and returned to its permanent storage area as soon as possible. The gauge is to be used for its intended purpose only. By doing so, we will maintain any radiation exposure to as low as reasonably attainable.
3. When using the equipment, we will wear the personnel monitoring device that has been assigned to us. When we are not using the equipment, our monitoring device is to be stored in the radiation free area that has been designated in the office. The film Badge company will be R.S. Landover, Glenwood, Ill. 312-755-7000. The badges will measure neutrons and gamma rays with quarterly reports and exchanges. The badge type is B 1.
4. A utilization log book will be kept to control the gauges whereabouts at all times. It will be signed in and out by the operator.

C. Maintenance and Leak Test Procedures

1. Periodic maintenance will include cleaning the gauge. During any maintenance, we will wear our personnel monitoring device. Routine



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Radiation Safety Program

Cleaning will require the source rod to be removed-in which case it will be placed in a lead pig or at least 20' away from any individuals.

2. No maintenance will be performed in which the radioactive source is removed from the gauge. For this type of maintenance, the gauge will be returned to the manufacturer.
3. The leak test will be performed using the TROXLER model 3880 Leak Test Kit. The leak test will be performed using the manufacturer's instructions. Again, the personnel monitoring device will be employed. Gauges will be leak tested at intervals not to exceed six (6) months., with reports kept on file.

3. Emergency Procedures

- A. In the event of physical damage to a gauge, the following will be performed:
 1. Immediately cordon off an area around the gauge. An area radius of 15 feet will be sufficient.
 2. If a vehicle is involved, it must be stopped until the extent of contamination, if any, can be established.
 3. A visual inspection of the gauge is to be made to determine if the source housing and/or shielding has been damaged.
 4. At the earliest possible time, when the situation is under control, we will contact Bernard L. Alderson at 617-673-5862. Describe the present conditions and follow the instructions of the Radiation Safety Officer.
- B. In the event the gauge is lost or stolen, immediately notify the Radiation Safety Officer as listed above in Item 3.A.4. He in turn will contact the NRC.
- C. A copy of these emergency procedures will be kept with the gauge.

ITEM 11. Waste Management.

In the event that the gauge is no longer needed, it will be transferred to another licensed user, a licensed burial ground or back to the manufacturer.

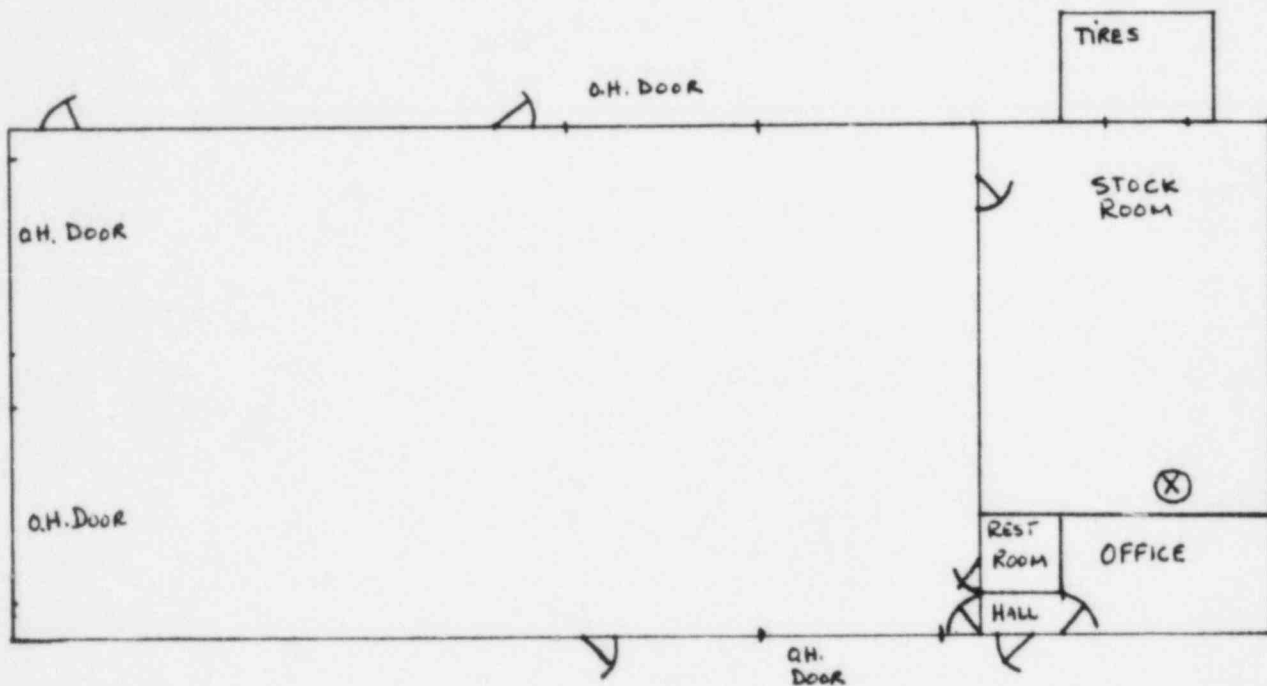
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1" = 20'

NUCLEAR GAUGE STORAGE AREA (X) IS LOCATED IN THE LOCKED STOCK ROOM WITH THE PIPE LASERS.

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration -

John E. Glenn, Chief
Nuclear Materials Section B
Division of Engineering and
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: Capaldi Bros. Corporation

Application Dated: 5/24/85

Control No.: 03903

License No.: New

2. FEE ATTACHED

Amount: \$230.00

Check No.: 16519

3. COMMENTS

Signed Brenda P. Latchek

Date 6/3/85

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 1230-3P

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

Amendment

Renewal

License ✓

Signed W Jackson

Date 6/17/85