INC FORM 313

U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OMB 3180-0120 Expires 5-31-87 (1.84) 10 CFR 30, 32, 33, 34, 38 and 40 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 IF YOU ARE LOCATED IN U.S. NUCLEAR REGULATORY COMMISSION DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS WASHINGTON, DC 20855 (LLINDIS, 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 80137 ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO: ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA NEW MEXICO, NORTH DAKOTA, OKLAHOMA, BOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION I NUCLEAR MATERIAL SECTION 8 601-MARK-A VENUE KING OF PRUSSIA, PA 19406 475 Alle U.S. NUCLEAR REGULATORY COMMISSION, REGION IV MATERIAL RADIATION PROTECTION SECTION 611 RYAN PLAZA DRIVE, SUITE 1000 ARLINGTON, TX 78011 475 Allendale Road LABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA,

WEST VIRGINIA, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION II MATERIAL RADIATION PROTECTION SECTION 101 MARIETTA STREET, SUITE 2000 ATLANTA, GA 30323 PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR	AND U.S. TERRITORIES AND POSSESSIONS . THE PACIFIC, SEND APPLICATIONS U.S. NUCLEAR REGULATORY COMMISSION, REGION V MATERIAL RADIATION PROTECTION SECTION 1450 MARIA LANE, SUITE 210 WALNUT CREEK, CA. 94596 HE 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.	THE STATE SOME SHETTER THEY WISH TO POSSESS AND USE LICENSED MATERIAL				
1. THIS IS AN APPLICATION FOR (Check appropriate (term) X A. NEW LICENSE B. AMENDMENT TO LICENSE NUMBER C. RENEWAL OF LICENSE NUMBER	DAVID BLACKMORE AND ASSOCIATES, INC. 3335 WEST RIDGE PIKE POTTSTOWN, PENNSYLVANIA 19464				
DAVID BLACKMORE AND ASSOCIATION OF POSSESSED. DAVID BLACKMORE AND ASSOCIATION OF POSSESSED.	REG1 L1C30 37-28297-01 PDR				
4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION	TELEPHONE VYMBER				
Joseph Hughes	(215) 495-6255				
SUBMIT ITEMS 6 THROUGH 11 ON 8% x 11" PAPER. THE TYPE AND SCOPE OF INFORMATI	ON TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.				
RADIOACTIVE MATERIAL Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.	6. PURPOSEIS) FOR WHICH LICENSED MA ERIAL WILL BE USED.				
7. INDIVIDUALISI 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 MANAGEMENT	12 LICENSEE FEES (See 10 CFR 170 and Section 170 31) FEE CATEGORY 3P AMOUNT ENCLOSED \$ 230.00				
13. CERTIFICATION. (Must be completed by explicant THE APPLICANT UNDERSTANDS THE BINDING UPON THE APPLICANT THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF C PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 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 C TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITH SIGNATURE—CERTIFYING OFFICER	OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS TS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN,				
Joseph Hughes	Executive Vice President 10/18/88				
14 YOLUNTAN: 14 YOLUNTAN: 15 YOLUNTAN: 15 YOLUNTAN: 15 YOLUNTAN: 15 YOLUNTAN: 15 YOLUNTAN: 16 YOLUNTAN: 17 17 18 YOLUNTAN: 17 18 YOLUNTAN: 17 18 YOLUNTAN:	ONOMIC DATA O WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Boller end/or staff nours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to prosect confidence) or financial proprietary—information furnished to the agency in confidence) X YES				
The state of the s	USE ONLY				
AMOUNT RECEIVED CHECK NUMBER OFFICIAL	RECORD COPY ML 10 20 OCT 1988				

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 Cummission'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 PROVID-ING 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.
- 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 ITEMS 5 THROUGH 11

PORTAPROBE MC-3-122 GAUGE

- 5. Radioactive Material:
- a.) Radionuclei b.) Form c.) Maximum Amount

 Cesium 137 Sealed source CPN No single source

Cesium 137 Sealed source CPN No single source drawing CPN-131 to exceed 10 mci

Americium 241-BE Sealed source CPN No single source drawing CPN-131 to exceed 50 mci

6. Purpose(s) for which licensed material will be used:

For use in CPN Corporation MC-series surface moisture density gauge to measure various properties of construction and other materials.

7. Individual(s) responsible for radiation safety program and their training and experience:

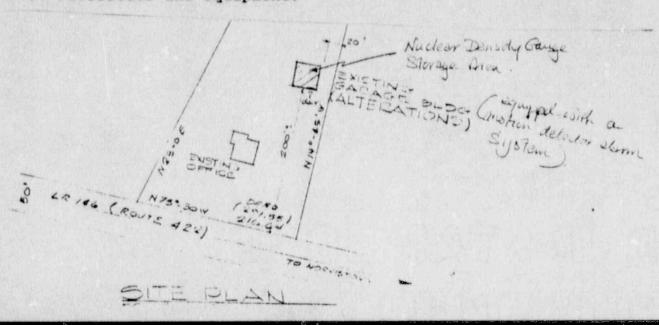
Joseph Hughes, certified February 13, 1981 by Troxler Electronic Labs, Inc., and used Troxler Nuclear Density Gauge while employed by Valley Forge Laboratories, Devon, Pennsylvania.

8. Training for individuals working in or frequenting restricted areas:

Joseph Hughes (copy of certification enclosed)

David B. Blackmore (copy of certification enclosed)

9. Facilities and equipment:



Application for Material Liense Items 5 through 11 Page -2-

10. Radiation safety program:

1. Radiation Safety Officer

- A. Joseph Hughes has been designated as the company Radiation Safety Officer (RSO) and will assume the duties and responsibilities that include the following:
 - 1. To ensure that all terms and conditions of the license are being complied with and that the information contained in the license is up-to-date and accurate.
 - To ensure that the equipment has been leak tested at the required intervals and that the leak test is performed in the manner prescribed by CPN Corporation.

The leak test shall be carried out using CPN# TD11B leak test kit.

- 3. To ensure that the gauge is only used by individuals authorized by the RSO and that they use the gauge in accordance with all relevant regulations. This will include the wearing of a suitable radiation film badge.
- 4. To maintain the records as required by the license and the regulations. These records shall include personnel exposure, leak test records, and training certificates for all users.
- To ensure that the equipment is properly secured against unauthorized removal at all times.
- 6. To serve as a point of contact and give assistance in case of an emergency, such as equipment damaged in the field or theft, and to notify the proper authorities in case of an emergency.
- To ensure that all users have read and understood the radiation safety operation and emergency procedure.
- To arrange appropriate training for new users as required.
- To post all required signs and notices for new users as required.

2. Operational 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.
- The gauge will be transported in the CPN transportation case. The U.S. Department of Transportation requires that the gauge be transported in a properly labeled carrying case.
- At all times while the gauge is being transported the operator will carry the required shipping papers and a copy of the emergency plan.

B. Operational Procedures

- The operator will exercise suitable control over the gauge at all times.
- Under no circumstances will the gauge be left unattended or under the supervision of an unauthorized person.
- 3. When not being used for field measurements, the gauge shall have its source mechanism locked and will be locked in its transportation case. The gauge will also be returned to the vehicle.
- 4. When testing is completed the gauge will be returned to its permanent place of storage, as soon as possible.
- 5. When using the equipment operators will wear the personal monitoring device that has been assigned to them. When the operator is not using the equipment, the monitoring device will be kept in a radiation free area, as designated by the RSO.

 At all times operators will observe the principle of A.L.A.R.A.

By following the A.L.A.R.A. principal operators will receive a radiation dose that is:

As Low As Reasonably Achievable

As required by the NRC.

C. Maintenance and Leak Test Procedures

- 1. Periodic maintenance will include cleaning of the gauge. The operator will have received proper instructions on how to do this and will wear his film badge and observe the A.L.A.R.A. while carrying this out.
- 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 an approved leak test kit (such as the CPN# TD11B leak test kit), and in accordance with the manufacturer's instructions. The operator will wear their personal monitoring device while carrying this out.
- 4. The shipping case will be checked periodically to ensure all the required labels are present.

3. Emergency Procedures

- A. In the event of physical damage to a gauge, the following will be performed:
 - Immediately cordon off an area around the gauge. An area radius of fifteen (15) feet will be sufficient.
 - If a vehicle is involved, it must be stopped until the extent of contamination, if any, can be established.
 - A visual inspection of the gauge is to be made to determine if the source housing and/or shielding has been damaged.

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4. At the earliest possible time, when the situation is under control, you must contact Joseph Hughes at (215)495-6255. Describe the present conditions and follow the instructions of the RSO.

The RSO will contact the appropriate NRC office as listed below:

Region	I	24	hour	telerhone	number	(215)	337-5000
Region		24	hour	tel hone	number	(404)	331-4503
Region				telephone		(312)	790-5500
Region				telephone		(817)	860-8100
Region				telephone		(415)	943-3700

CPN will also be contacted for advice at the numbers listed below:

CPN (California office) (415) 228-9770 CPN (Ohio office) (614) 766-1276

Other contacts will be established with the NRC or local authorities for response to a damaged gauge.

B. In the event the gauge is lost or stolen, immediately notify Joseph Hughes as noted in Section 3.4 above.



JOSEPH HUGHES

DAVID BLACKMORE & ASSOCIATES

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC. TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

- protection.
- 2. Leak testing procedures.
- 3. Mathematics and calculations basic to 6. Accident and incident procedures. the use and measurement of radioactivity.
- 4. Biological effects of radiation. 8. General safety precautions.
- 1. Principles and practices of radiation 5. Radioactivity measurement standardization and monitoring techniques and instruments.

 - 7. Procedures for nuclear gauge storage and transportation.

Gauge Operation

- 1. Instrument theory
- 2. Operating procedures
- Maintenance

Kenneth Brown, Jr. INSTRUCTOR

- 4. Field application
- 5. Gauge calibration

2-13-84

24055

W. F. Troxler PRESIDENT



BETWEEN:		: (FOR LFMS USE) : INFORMATION FROM LTS
- Selficent		
LICENSE FEE MANAGEMENT BR AND REGIONAL LICENSING SECTION		PROGRAM CODE: STATUS CODE: 3 FEE CATEGORY: EXP. DATE: 0 FEE COMMENTS:
LICENSE PEE TRANSMITTAL		
· A. REGION		
PECEIVED DATE: DOCKET NO: CONTROL NO:: LICENSE NO::	BLACKMORE, DAY 881020 3030864 109748 NEW LICENSEE	ID & ASSOCIATES, INC.
2. FEE ATTACHED # 230,00 CHECK ND.: 3046		
3. COMMENTS		,,
	SIGNED DATE	S. J. Survey.
		WHEN MILESTONE 03 IS ENTERED 1.1
1. FEE CATEGORY AND AMOU	INT: 30 (\$23D)
2. CORRECT FEE PAID. AP AMENDMENT RENEWAL LICENSE		BE PROCESSED FOR:
3. OTHER		
	SIGNED DATE	les Russel
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