

## 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 \_\_\_\_\_  
☒ C. RENEWAL OF LICENSE NUMBER 21-18734-01

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

Orchard, Hiltz & McCliment, Inc.  
34935 Schoolcraft Road  
Livonia, MI 48150

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

Licensed material will be used at address listed in Item No. 2 above, and at various temporary construction project sites throughout the State of Michigan.

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

Alan K. McComb

**TELEPHONE NUMBER**

(313) 522-6711

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. FACILITY**

8506100780 850517  
REQ3 LIC30  
21-18734-01 PDR

**10. RADIATION SAFETY PROGRAM.**

**11. WASTE MANAGEMENT**

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

FEE CATEGORY Sec. 170.31 AMOUNT  
Sec. 1, Part J ENCLOSED \$ 120.00

**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**

John J. Hiltz

Executive Vice-President

2/21/85

**14. VOLUNTARY ECONOMIC DATA**

**a. ANNUAL RECEIPTS**

<\$250K	<input checked="" type="checkbox"/>	\$1M-3.5M
\$250K-500K	<input type="checkbox"/>	\$3.5M-7M
\$500K-750K	<input type="checkbox"/>	\$7M-10M
\$750K-1M	<input type="checkbox"/>	>\$10M

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

30

**c. NUMBER OF BEDS**

None

**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**

CONTROL NO. 78898

**DATE**

## 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

ATTACHMENT TO LICENSE RENEWAL NO. 21-18734-01  
ORCHARD, HILTZ & McCLIMENT, INC.  
LIVONIA, MICHIGAN

Response to Items 5 through 11 on  
Materials License Renewal Form:

Item 5; Radioactive Material:

1. a. Cesium-137  
b. Sealed Source (Troxler Drawing No. 101112)  
c. No Single Source to Exceed 10 Millicuries
2. a. Americium 241: Beryllium  
b. Sealed Source (Troxler Drawing No. 102451)  
c. No Single Source to Exceed 50 Millicuries

Both sources are housed in a Troxler 3411B Nuclear Density Gauge manufactured by Troxler Electronic Laboratories of Research Triangle Park, North Carolina, 27709. We presently are in possession of two (2) Model 3411B Gauges. The gauge serial numbers are 6375 and 10102. At present, we have no immediate plans to purchase additional gauges; however, as field work load increases, additional density gauges or nuclear asphalt gauges may be purchased.

Item 6; Purposes for Use

The nuclear density gauges are used for testing compacted construction material such as gravel, sand and bituminous material. The gauges are transported in company vehicles to various temporary construction project sites in the State of Michigan and are used by trained employees of the company.

Item 7; Individual Responsible for Radiation Safety

The radiation safety officer for the company is Alan K. McComb, P.E. Mr. McComb is a registered professional engineer in the State of Michigan and has been instructed in radiation safety procedures and gauge operation by the gauge manufacturer.

Item 8; Training for Individuals Working in Restricted Areas

All individual employees who are authorized to use the nuclear density gauges are kept informed, on a regular basis, of any changes in safety or operational procedures to assure safe and efficient use of the machine.

#### Item 9; Facilities and Equipment

Please refer to the enclosed drawing designating where the gauges are kept when not in use. While in use the gauges will be transported in company vehicles and will be used by employees trained and certified in the use of nuclear density equipment. The gauges in transit are kept in their shipping cases with appropriate labeling. On site, they are kept locked when not in use and under close supervision of the operator.

#### Item 10; Radiation Safety Program

The radiation safety officer reviews and keeps on file all monthly, quarterly and year-end records of radiation dosages received by gauge operators as monitored by the R.S. Landauer Jr. Co. Lifetime accumulated dosages are also kept on file and monthly reports received from the Dosimetry Monitoring Company are posted for all gauge operator's information. The safety officer inventories the gauges monthly, changes all film badges monthly, frequently observes operator's field procedures for use of the gauges, and completes bi-annual leak test reports on all radioactive sources. Annual statistical summary reports of personal monitoring are also submitted to the N.R.C. each year; and employees who are gauge operators and terminate their employment with the company are notified in writing of their total accumulated lifetime dosages they received while using the radioactive equipment. The gauges are inspected physically on a regular basis to insure that the source capsules are not damaged and that the gauges are in good working order.

#### Item 11; Waste Management

Any radioactive waste generated from the sources will be disposed of through the manufacturer of the gauge. As of this date, no radioactive waste has been generated from the sealed sources except for contaminated materials generated from the bi-annual leak tests. This contaminated material is sent to the gauge manufacturer with the appropriate paperwork for analysis. The material is then disposed of by the manufacturer in accordance with current N.R.C. regulations, and the results of the leak test analysis sent to this licensee.

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ANO. 8506100780

NO. OF PAGES 1

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