

# APPLICATION FOR MATERIAL LICENSE

U.S. NUCLEAR REGULATORY COMMISSION  
APPROVED BY OMB  
3150-0120  
Expires 5-31-87

SEP - 4 1987

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.

## APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20566

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,  
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,  
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIALS SAFETY 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  
NUCLEAR MATERIALS SAFETY 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  
NUCLEAR MATERIALS SAFETY SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

30-30179

(030-30179)  
LTL 26901

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)

The Earth Technology Corp.  
3777 Long Beach, Blvd.  
Long Beach, CA 90807

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

- Montana-Various locations within a triangulated sector of Great Falls, Shelby & Lewiston  
Wyoming-Various locations within Platte, Goshute & Laramie Counties  
Nebraska-Various locations within Scottsbluff, Banner Morrill, Kimball & Cheyenne Counties  
Colorado-Various locations within Logan, Weld and Morgan Counties

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

Keith Martinez

## TELEPHONE NUMBER

213/595-6611

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

8801280100 870930  
REG 4 LIC 30  
04-26901-01 PDR

## 10. RADIATION SAFETY PROGRAM

## 11. WASTE MANAGEMENT

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

FEE CATEGORY 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

Keith Martinez

## TITLE

Corporate Health & Safety Mgr. 9/2/87

## DATE

## 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 LOG

### FEE CATEGORY

### COMMENTS

### APPROVED BY

### AMOUNT RECEIVED

### CHECK NUMBER

### DATE

8230

66812

9/14/87

461649

5. (A) Cesium 137/Americium 241:Be  
 (B) Sealed source within 3 each portable soil density gauges (CPN Corporation Model 131)  
 (C) Cesium 137 - One source not to exceed <sup>10</sup>50 millicuries *verified in telco 9/24/87 jcm*  
 Americium 241:Be - One source not to exceed 50 millicuries  
*Model - MC series (verified in telco 9/24/87 jcm)*
6. Campbell Pacific Nuclear gauges to be utilized for determination of moisture/density in construction materials.
7. Radiation Safety Officer: Keith Martinez, Certified Industrial Hygienist *stated in telco 9/21/87 that he has received CPN training per*

Mr. Martinez is the Radiation Safety Officer for The Earth Technology Corporation. His responsibilities include: the overall radiation safety program; warning and personnel security systems; personnel protective equipment; emergency planning; occupational medicine pre-screening; and implementing changes in governmental regulations to improve health and safety requirements for radioactive waste handling.

Mr. Martinez provides health and safety program requirements to projects that involve radioactive waste. He reviews and approves applications from various company organizations for radioactive material licenses, as well as material documents authorizing the procurement, transfer, or disposal of ionizing radiation. He administers radiation safety programs in accordance with company, state, and federal requirements, and provides safety services to health physicists to check sealed sources for leakage of radioactive material.

In the field, he supervises the disposal of radioactive waste to assure proper packaging, labeling, storage, transportation, and final deposition. He coordinates emergency response programs for mishandled, spilled, or damaged radioactive materials, and governs personnel training, pre-exposure physical examinations, dosimetric services, and reporting mechanisms for employees subjected to controlled radiation exposure.

The following individuals have successfully completed the CPN Corporation Authorized Nuclear Gauge Training Class:

Ed Barton	M. Ghazvini
Reg Renaud	Mark Roberts
Lucas Hekma	Kahlid Husain
Pedro Pan	Sasson Salehipour
Dan Hencey	Vahid Behmaram
Pat Schmidt	Stephan Bauer
Ariffin Tan	Mark Sommers
Fred Leonard	

8. Radioactive materials shall only be operated by individuals who have successfully completed the CPN Corporation safety and equipment operation course. The Radiation Safety Officer (RSO) shall maintain the appropriate training and qualification records for at least 2 years from the graduation date of training.

9. The gauges will be locked in their respective cases, placed in a storage trailer and then chained together through the case handles. The storage trailer will be parked in a storage garage. Both the trailer and garage will be locked. Each gauge case shall be labeled specifying use of equipment by authorized personnel.

10. Radiation Safety Program (refer to Item #7)

Film Badge Personnel Monitoring - Dosimetry badges shall be worn by individuals specified in Item 7 for one month periods. Each dosimetry badge shall be analyzed by:

R.S. Landauer Jr. & Co.  
2 Science Road  
Glenwood, Illinois 60425

Exposure results shall be reported on a monthly basis and monitored by the RSO. Exposure records shall be maintained for each individual specified in Item 7.

Commercial Leak Test Kit, CPN Corp. Model No. 705-11B  
CPN Corp., 2830 Howe Road, Martinez, CA 94553 - California License No. 1100-07

Tests for leakage shall be performed by the individuals specified in Item 7.

Minor maintenance operations such as equipment cleaning will be performed only after the radioactive source has been safely shielded. The radioactive source will not be removed from the gauge unless personnel have completed specialized training to perform such maintenance procedures. The gauge device will be sent to the manufacturer if removal of the radioactive source from the shielded position becomes necessary.

Written operating and emergency procedures will be stored within the storage case of each gauge device. Individuals identified in Item 7 will be notified that such procedures exist and their respective locations. The operating and emergency procedures will include the following topics at a minimum:

- o Personnel Monitoring
- o Operating Instructions
- o Equipment Storage
- o Equipment Transportation
- o Equipment Leak-Testing
- o Emergency Procedures

Packaging, transportation and delivery of licensed material will be performed in accordance with the provisions of Title 10, Code of Federal Regulations (CFR), Part 71 "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material under Certain Conditions" and Title 49, Code of Federal Regulations (CFR), Parts 172 & 173.

461649

11. Disposal of the licensed material will only occur by transfer of the material to a licensee specifically authorized to possess it (i.e., CPN Corp.) in accordance with Title 10, CFR, Part 20.