

U.S. Nuclear Regulatory Commission  
Application For Material License  
NRC Form 313  
License Number 31-28025-01

**Item 5 – Radioactive Material and Item 6 – Purpose for which Licensed Material will be Used**

Radioisotope	Manufacturer	Quantity	Purpose
CS-137	Sealed Source in Nuclear Density Gauge	Not to exceed $3.7 \times 10^6$ GBQ (100,000 curies)	Used in nuclear density gauge for measurement of physical properties of materials
AM-241:BE	Sealed Neutron in Nuclear Density Gauge	Not to exceed $3.7 \times 10^3$ GBQ (100 curies)	Used in nuclear density gauge for measurement of physical properties of materials

Troxler Gauge Model: 3440  
Gauge Serial Number: 23316

**Item 7 – Individual(s) responsible for radiation safety program and their training experience**

**Response** – Jason I. Gorman will be the Radiation Safety Officer (RSO). Mr. Gorman has completed the training course for use of nuclear testing equipment and the radiation safety officer course conducted by Troxler Electronic Laboratories, Inc.

Before being named as the RSO, future RSOs will have successfully completed the training described in Criteria in section entitled “Radiation Safety Officer” in NUREG-1556, Vol. 1, “Consolidated Guidance about Materials Licenses: Program Specific Guidance about Portable Gauge Licenses,” dated May 1997.

**Item 8 – Training for individuals working in or frequenting restricted areas**

**Response** – Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled “Authorized Users” in NUREG-1556, Vol. 1, “Consolidated Guidance about Materials Licenses: Program Specific Guidance about Portable Gauge Licenses,” dated May 1997.

**Item 9 – Facilities and Equipment**

**Response** – No response required.

**Item 10 – Radiation Safety Program**

**Response** – We will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in section entitled “Radiation Safety Program – Instruments” in NUREG-1556, Vol. 1, “Consolidated Guidance about Materials Licenses: Program-

Specific Guidance about Portable Gauge Licenses,” dated May 1997, in the event of an incident.

Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.

Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10 percent of the allowable limits in 10 CFR Part 20 or we will provide dosimetry processed and evaluated by a NVLAP-approved processor that is exchanged at a frequency recommended by the processor.

We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1, “Consolidated Guidance about Materials Licenses: Program – Specific Guidance about Portable Gauge Licenses,” dated May 1997 and provide copies of these procedures to all users and at the job site.

Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services to other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier’s instructions.

We will send the gauge to the manufacturer or other person authorized by the NRC or an Agreement State to perform non-routine maintenance or repair operations that require detaching the source or source rod from the gauge.

We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer’s recommendations and instructions.

**Item 11 – Waste Management**

**Response** – No response required.