

RADIOACTIVE MATERIAL PERMIT
USAF RADIOISOTOPE COMMITTEE

Pursuant to the authority stated in AFI 40-201, Managing Radioactive Materials in the USAF, and in reliance on statements made by the applicant, permission is hereby granted to receive, possess, transfer and store radioactive materials listed below, and to use this material for the purpose and at the places listed below. This document is not a valid permit unless it is endorsed by a representative of the USAF Radioisotope Committee.

1. ORGANIZATION 554 RHS/CC Unit 14014 APO AP 96543	2. PERMIT NO. GU-00300-01/01AFP	3. AMENDMENT NO. 1
	4. EXPIRATION DATE 31-Dec-2017	
	5. DOCKET NO. 030-00300	
6. PERMIT RSO: CAPT GREGORY LATHBURY	7. ALTERNATE PERMIT RSO: MAJ KHAI VUONG	

8. RADIOACTIVE MATERIAL (Element and Mass Numbers)	9. CHEMICAL/PHYSICAL FORM (NSN or Model Number) (* denotes sealed sources)	10. MAXIMUM QUANTITY AUTHORIZED
A. Americium 241: Beryllium	* A. Sealed source (Troxler Drawing No. A-102451)	A. 3 sources; not to exceed 44 mCi each, 132 mCi total
B. Cesium-137	* B. Sealed source (Troxler Drawing No. A-102112)	B. 3 sources; not to exceed 9 mCi each, 27 mCi total

11. AUTHORIZED USE

- A. For use in Troxler Model 3400 Series, (SS&DR No. NC-646-D-130-S) for measurement of construction materials properties (moisture, density, etc.)
- B. For use in Troxler Model No. 3400 Series (SS&DR No. NC-646-D-130-S) portable gauging devices for measuring physical properties of materials.

12. AUTHORIZED USERS

- A. Maj Khai Vuong (Alt Permit RSO)
- B. Capt Gregory Lathbury (Permit RSO)
- C. TSgt Christopher D. Cox
- D. **SSgt** Ricardo R. Figueroa Quinones
- E. SSgt Jammie D. Catoe
- F. SSgt Chae K. Pak
- G. SrA Victoria E. McDaniel

CONDITIONS

13 The authority for this permit is US Nuclear Regulatory Commission (NRC) Master Material License No. 42-23539-XXAF) and AFI 40-201, Managing Radioactive Materials in the USAF. The mailing address for the USAF Radioisotope Committee Secretariat (RICS) is AFMSA/SG3PB, Attn: Radiation Health, 7700 Arlington Boulevard Falls Church, VA 22042. Email the RICS at USAF.RIC@Pentagon.af.mil.

RADIOACTIVE MATERIAL PERMITUSAF RADIOISOTOPE COMMITTEE
SUPPLEMENTARY

Page 2 of 4

PERMIT NO.
GU-00300-01/00AFP

AMENDMENT NO.

1

DOCKET NO.

030-00300

- 14** The Permittee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations (CFR), Part 19, "Notices, Instructions and Reports to Workers; Inspections," Part 20, "Standards for Protection Against Radiation," Part 21, "Reporting of Defects and Noncompliance," and Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material," except that all reports required by those parts must be made to the USAF RICS. In addition, the Permittee shall comply with all applicable Air Force Regulations, and all instructions and directives of the USAF Radioisotope Committee (RIC) necessary to insure compliance.
- 15** The permitted material may be stored at the Permittee's facilities located at building "R-1 Conex" of Andersen AB (Northwest Field) and at temporary sites where the Air Force maintains jurisdiction for regulating use of the permitted material subject to any host nation restrictions under Status of Forces Agreements.
- 16** The permitted material must be stored in a secured area when not under the direct surveillance of an authorized user or Permit RSO. The Permittee shall post caution signs in areas and rooms using or storing density gauges for more than eight hours IAW 10 CFR 20.1903 (a). When in storage, the Permittee shall use a minimum of two independent physical controls to prevent unauthorized removal of the permitted material IAW 10 CFR, Part 30.34 (i). Note: The lock on the gauge does NOT count as a form of physical control. The unit must be properly labeled, blocked, braced and secured with two locks (the lock for the case does not satisfy this requirement) while transporting / moving the unit on a vehicle.
- 17** Permitted material shall only be used by, or under the supervision and in the physical presence of, Authorized Users (AU) listed on item #12. Troxler Certified /trained Engineering officers and technicians may use the Troxler Gauges as an AU provided they have been designated in writing by the Permittee. The AU list will be updated during the next amendment/renewal of the Permit whichever comes first. The AU shall follow manufacturer's manual only.
- 18** Any cleaning, maintenance, or repair of portable devices involving removal of the sealed sources from the devices or dismantling of shielding must be performed by the manufacturer, or by other persons specifically authorized by the NRC, or an Agreement State to perform such services and approved by the USAF RICS.
- 19** The Permittee shall conduct a physical inventory every 6 months to account for all sources received and possessed under this permit. The records of the inventories shall be maintained for a minimum of three years from the date of the inventory for inspection by the NRC, the USAF RICS, or the Medical Directorate of the Air Force Inspection Agency (AFIA) and SHALL include: a) inventory date, b) model and serial number of device and source, c) radionuclide and activity, d) date activity determined, e) device or source location, and f) signature of the Permit RSO certifying the accuracy of the inventory.
- 20** A. Each sealed source containing permitted material shall be tested for leakage at intervals not to exceed 12 months. Prior to receipt of permitted material, the Permittee shall request certification that a satisfactory leak test has been performed within 12 months prior to receipt. The certification may be shipped with the source. If a source is received without a current leak test certificate, a satisfactory leak test shall be obtained prior to use.
- B. Test samples shall be collected and analyzed by the Radioanalytical Branch of the United States School of Aerospace Medicine or any individual authorized by USNRC or Agreement State license or USAF or USN permit to evaluate leak tests for others and approved by the RICS.
- C. The test shall be capable of detecting the presence of 0.005 microcuries of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the NRC,

RADIOACTIVE MATERIAL PERMIT

**USAF RADIOISOTOPE COMMITTEE
SUPPLEMENTARY**

Page 3 of 4

PERMIT NO.
GU-00300-01/00AFP

AMENDMENT NO.

1

DOCKET NO.
030-00300

the USAF RICS, or AFIA/SG.

D. If the test reveals the presence of 0.005 microcuries or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or prepared for disposal by the manufacturer in accordance with NRC regulations and AF directives. A report SHALL be filed with the USAF RICS (AFMSA/SG3PB, Attn: Radiation Health 7700 Arlington Boulevard Falls Church, VA 22042) within one duty day of the date the leak test result is known. The report shall specify the source involved, the test results, and the corrective actions taken.

E. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.

21 The Permit RSO shall audit the permit IAW the following documents:

a. "APPENDIX E PORTABLE GAUGE AUDIT CHECK LIST" of the NUREG -1556, Volume 1, Rev.2 and

b. SOIL DENSITY GAUGE COMPLIANCE CHECKLIST for PERMIT RADIATION SAFETY OFFICER (PRSO)

Then the Permit RSO shall brief a summary of the audit report to the Permittee and the installation RSO. The Permit RSO shall provide the audit report to the USAF RICS along with the updated list of the AU no later than 31 December of each year.

22 Transfer of permitted material shall only be to a USAF or USN Radioactive Material Permittee or to an NRC or Agreement State Licensee holding a valid authorization to receive the sources. The permitted materials shall be disposed of in accordance with AFI 40-201.

23 The Permittee shall transport permitted material in accordance with 10 CFR 71, "Packaging of Radioactive Material for Transport," 49 CFR 170-189, Transportation, and DOD directive 4500.9 and subject to any host nation restrictions under the Status of Forces Agreements. The Permittee shall include the certificate of Competent Authority by the International Atomic Energy Agency (available from the manufacturer after providing serial number of the unit) for CONUS and OCONUS shipments.

24 Except as specifically provided otherwise by this permit, the possession and use of radioactive material described in Item 8 of the permit shall be in accordance with statements, representation, and procedures contained in:

DOCUMENT REFERENCE	SUBJECT	DATE
554 RHS/CC (Memo w/ Atch)	Permit Renewal	01-May-2013
554 RHS/CC (Memo w/ Atch)	Change of Address	01-Nov-2013

The Nuclear Regulatory Commission's regulations and United States Air Force directives shall govern the Permittee's statements in applications or letters, unless the statements are more restrictive than the regulations and directives.

RADIOACTIVE MATERIAL PERMIT
USAF RADIOISOTOPE COMMITTEE
SUPPLEMENTARY

Page 4 of 4

PERMIT NO.
GU-00300-01/00AFP

AMENDMENT NO.

0

DOCKET NO.
030-00300

Date: 13 December 2013

FOR THE USAF RADIOISOTOPE COMMITTEE

By: R.K. Bhat

RAMACHANDRA K. BHAT, Ph.D., CHP
Senior Health Physicist
AF Radioisotope Committee Secretariat
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