



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS UNITED STATES AIR FORCE  
WASHINGTON DC

5 May 2016

MEMORANDUM FOR 554 RHS/CC

FROM: AFMSA/SG3PB

SUBJECT: Amendment to USAF Radioactive Material Permit Number GU-00300-01/02AFP,  
Docket Number 040-00300

**To the Permit RSO: Please make a copy for your files.**

1. We received your email memo updating the authorized users for the density gauge permit dated 29 April 2016. Capt Gregory Lathbury remains as the Radioisotope Committee Secretariat (RICS) approved Permit Radiation Safety Officer (PRSO). LtCol Kerry Lewis remains as the RICS approved Alternate PRSO. **The following personnel are new authorized users: Henry Andermann and Johnathon Grantham.** The inspection category for this permit is 03121; the inspection frequency for this permit is every 2 years, unannounced; this permit expires 31 December 2017.
2. Attached is your amended permit, Permit No. GU-00300-01/03AFP. Please review the permit carefully to ensure that it authorizes the materials and stated uses, as requested, and that you understand all conditions. As a reminder, IAW AFI 40-201, *Radioactive Materials (RAM) Management*, you must timely notify this office of any changes to the permittee and RSO(s).
3. If you have any questions, please contact me at 703-681-7855 (DSN 761-) or by e-mail at [bruce.a.murren.mil@mail.mil](mailto:bruce.a.murren.mil@mail.mil). Regarding future permit actions, please submit your requests through our RIC E-Mail box: [usaf.pentagon.saf-aa.mbx.usaf-ric@mail.mil](mailto:usaf.pentagon.saf-aa.mbx.usaf-ric@mail.mil). Off-duty hours call 301-981-5058; DSN 858-5058.

BRUCE A. MURREN, Maj, USAF, BSC  
Chief, Radiation Health Operations  
USAF Radioisotope Committee Secretariat  
Air Force Medical Support Agency  
Office of the Surgeon General

Attachment:  
Permit Number GU-00300-01/03AFP

cc:  
AFIA/SGO (Lt Col Abell)  
PACAF/SGPB (Col Caravello)  
36 MDOS/SGOAB (Capt Lathbury)

**RADIOACTIVE MATERIAL PERMIT**  
**USAF RADIOISOTOPE COMMITTEE**

Pursuant to the authority stated in AFI 40-201, *Radioactive Materials (RAM) Management*, 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 Secretariat.

1. ORGANIZATION  554 RHS/CC Unit 14014 APO AP 96543	2. PERMIT NO. GU-00300-01/03AFP	3. AMENDMENT NO. 3
	4. EXPIRATION DATE 31-December-2017	
	5. DOCKET NO. 030-00300	

6. PERMIT RSO: Capt Gregory Lathbury	7. ALTERNATE PERMIT RSO: Lt Col Kerry Lewis
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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; total activity is 132 mCi.
B. Cesium-137	* B. Sealed source (Troxler Drawing No. A-102112)	B. 3 sources; not to exceed 9 mCi each; total activity is 27 mCi

- 11. AUTHORIZED USE**
- A. For use in Troxler Model No. 3400 series (SS&DR No. NC-0646-D-0130-S) for measurement of construction material properties (moisture, density, etc.).
- B. For use in Troxler Model No. 3400 series (SS&DR No. NC-0646-D-0130-S) for measurement of construction material properties (moisture, density, etc.).

**12. AUTHORIZED USERS**

Capt Gregory Lathbury (Permit RSO)	SrA Victoria McDaniel
LtCol Kerry Lewis (Alt Permit RSO)	A1C Derrick Nelson
SSgt Pasha Hughes	AMN Noah Wordell
<b>Henry Andermann</b>	<b>Johnathon Grantham</b>

**CONDITIONS**

- 13.** The authority for this permit is U.S. Nuclear Regulatory Commission (NRC) Master Material License No. 42-23539-XXAF issued to the USAF Radioisotope Committee (RIC) and AFI 40-201, *Radioactive Materials (RAM) Management*. The mailing address for the Radioisotope Committee Secretariat (RICS) is AFMSA/SG3PB, Attn: Radiation Health, 7700 Arlington Boulevard, Suite 5151, Falls Church, VA 22042. The email address for the RICS is [usaf.pentagon.saf-aa.mbx.usaf-ric@mail.mil](mailto:usaf.pentagon.saf-aa.mbx.usaf-ric@mail.mil). The after-duty-hours Incident/Accident Reporting phone number is 301-981-5058 (DSN 858).
- 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 RICS. In addition, the Permittee shall comply with all applicable Air Force Regulations, and all instructions and directives of the 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), **Building 558 on Camp Covington Naval Base Guam** 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 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 authorized users shall only follow the manufacturer's manual.

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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 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 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, the RICS, or AFIA/SGO.
- 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 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 NUREG -1556, Volume 1, Rev.1 "APPENDIX F PORTABLE GAUGE AUDIT CHECK LIST", and "Soil Density Gauge Compliance Checklist for Permit Radiation Safety Officer (PRSO)", and brief a summary of the audit report to the Permittee and the Installation RSO. The Permit RSO shall provide the audit report to the RICS 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, and Parts 300-399, "Transportation", and DTR 4500.9-R and subject to any host nation restrictions under the Status of Forces Agreements. The Permittee shall include a current copy of the Certificate of Competent Authority (CCA) by the International Atomic Energy Agency (IAEA) (available from the manufacturer after providing the serial number of the sealed source) with CONUS and OCONUS shipments. A copy of the IAEA CCA (sometimes referred to as "Special Form Certificate") must be kept for at least one year after the latest shipment of a nuclear gauge (note: certificates have expiration dates).
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:

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030-00300

**DOCUMENT REFERENCE**

554 RHS/CC (Memo w/ Atch)

554 RHS/CC (Memo/Email w/ Atch)

554 RHS/CC (Memo)

**554 RHS/CC (Email)****SUBJECT**

Permit Renewal

Change of Address/Admin updates - 12 Dec 13

Change Authorized Users and ARSO

**Change Authorized Users****DATE**

01-May-2013

01-Nov-2013

09-Nov-2015

**29-Apr-2016**

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

Date: **5 May 2016**

FOR THE USAF RADIOISOTOPE COMMITTEE

BRUCE A. MURREN, Maj, USAF, BSC  
Chief, Radiation Health Operations  
USAF Radioisotope Committee Secretariat  
Air Force Medical Support Agency  
Office of the Surgeon General