



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

10 December 2007

MEMORANDUM FOR 554 RHS/CC
36 MDOS/SGOAB
IN TURN

FROM: AFMOA/SG3PR
110 Luke Avenue, Room 405
Bolling AFB DC 20032-7050

SUBJECT: Permit Renewal Request, USAF Radioactive Material Permit No. **GU-00300-00/00AFP**,
Docket No. **030-00300**

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

We have received NRC Form 313 dated 17 July 2007 requesting a radioactive material permit. The permit has been approved in its entirety; attached is permit No. GU-00300-00/00AFP. Capt Michael Dunlop is the RIC approved Permit Radiation Safety Officer (RSO); there is no RIC approved Alternate Permit RSO. The inspection category for this permit is **03121**; the inspection frequency for this permit is every 5 years, unannounced; this permit expires 10 December 2012. We have also attached SSDR No. NC-646-D-130-S dated 04 April 2007 (Atch 2) and Appendix H of NUREG1556, Vol. 1, Revision I "Operating, Emergency, and Security Procedures" (Atch 3) for your information. If the gauge is stored at any other location besides the R-1 Conex at the Northwest Field on Andersen AFB Guam, provide a copy of Atch 3 to the authorized user. All users must adhere to Appendix H.

Please review the permit carefully to ensure that it authorizes the materials and/or devices, uses, and authorized users as requested, and that you understand all conditions. As a reminder, IAW AFI 40-201 dated 13 April 2007, *Managing Radioactive Materials in the USAF*, you must timely notify this office of any changes to the Permittee, RSO(s), and/or authorized users.

If you have any questions regarding permit No. GU-00300-00/00AFP, then please contact me at DSN 297-4307; ramachandra.bhat@pentagon.af.mil or David Cessor-Culver at DSN 297-4300; david.cessor-culver.ctr@pentagon.af.mil. Additional contact information: telefax is DSN 754-8089; web page address is https://kx.afms.mil/rad_prot, and cell phone for receiving after-duty-hours Incident/Accident Reports is (703) 340-0819.

Ramachandra K. Bhat, Ph.D., CHP
Health Physicist
Radiation Protection Division and
USAF Radioisotope Committee Secretariat
Air Force Medical Operations Agency
Office of the Surgeon General

Attachments:

1. Permit No GU-00300-00/00AFP
2. SSDR No. NC-646-D-130-S dated 04 April 2007
3. Appendix H of NUREG 1556, Vol 1, Revision 1

cc:

HQ PACAF/SGGB

HQ AFIA/SGI (Lt Col. Adams)

USNRC, Region IV (Ms. Browder)

AFIOH/SDR (Lt Col. Martilla)

Det 3 AFIOH/CDR (Maj Select Shaw)

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 2106 BONNINS BLVD APO AP GU 96543-4114	2. PERMIT NO. GU-00300-00/00AFP	3. AMENDMENT NO. 0
	4. EXPIRATION DATE 10-Dec-2012	
	5. DOCKET NO. 030-00300	
6. PERMIT RSO: Dunlop, Michael Capt		7. ALTERNATE PERMIT RSO:

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. SS&DR No. NC-646-D-130-S (Troxler Drawing No. 102451)	A. 6 sources; not to exceed the max activity specified in SS&DR
B. Cesium-137	* B. SS&DR No. NC-646-D-130-S (Troxler Drawing No. A-102112)	B. 6 sources; not to exceed the max activity specified in SS&DR

11. AUTHORIZED USE

A. In Troxler Model No. 3400 Series portable gauging devices for measuring physical properties of materials as described in the SSD Registration Certificate.

B. In Troxler Model No. 3400 Series portable gauging devices for measuring physical properties of materials as described in the SSD Registration Certificate.

CONDITIONS

12. The authority for this permit is US Nuclear Regulatory Commission (NRC) Master Material License No. 42-23539-XXAF issued to the USAF Radioisotope Committee and AFI 40-201, Managing Radioactive Materials in the USAF.
13. The permittee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections," Part 20, "Standards for Protection Against Radiation," 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 Radioisotope Committee Secretariat. In addition, the permittee shall comply with AFI 40-201, all applicable Air Force Regulations, and all instructions and directives of the USAF Radioisotope Committee.
14. The permitted material may be stored in R-1 Conex at Andersen Northwest Field and used at the permittee's facilities located on Andersen AFB Guam and at temporary job 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. The permittee shall ensure that authorized users use a minimum of two independent physical controls in order to form tangible barriers to secure the Troxler portable gauge from unauthorized removal whenever the Troxler gauge is not under the direct control and constant surveillance of the permittee's staff/user as per Title 10, Code of Federal Regulations, Part 30.34 (i). Guidance on these security procedures is provided in Appendix H of NUREG-1556, Volume 1, Revision 1.
15. The permittee shall notify the appropriate installation radiation protection/safety officer prior to field use of the Troxler gauge and upon termination of field operations.
16. Permitted material shall only be used by, or under the supervision and in the physical presence of, individuals who have successfully completed the manufacturer's training program for gauge users, have been instructed in the permittee's routine and emergency operating procedures and who have been appointed in writing as an authorized user by the permittee.
17. The Permit (and alternate if desired/applicable) Radiation Safety Officer shall be those individuals whose training and experience are approved by the USAF Radioisotope Committee Secretariat and are appointed in writing by the permittee. *A copy of the appointment memo must be provided to the USAF Radioisotope Committee Secretariat (AFMOA/SG3PR, 110 Luke Ave Room 405, Bolling AFB DC 20032-7050).
18. A. (1) Each sealed source acquired from another person and containing permitted material, other than Hydrogen 3, with a half-life greater than 30 days and in any form other than gas shall be tested for contamination and/or leakage before use. In the

RADIOACTIVE MATERIAL PERMIT
USAF RADIOISOTOPE COMMITTEE
SUPPLEMENTARY

Page 2 of 3

PERMIT NO. GU-00300-00/00AFP
AMENDMENT NO. 0
DOCKET NO. 030-00300

absence of a certificate from a transferor indicating that a test has been made within 12 months before the transfer, a sealed source received from another person shall not be put into use until tested.

(2) Except for alpha sources, the periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within 12 months before the date of use or transfer.

B. Each sealed source containing permitted material, other than Hydrogen 3, with a half-life greater than 30 days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed 12 months except that each source designed for the purpose of emitting alpha particles shall be tested at intervals not to exceed 3 months.

C. Test sample(s) shall be collected by the permittee and forwarded to the Air Force Institute for Occupation Health (AFIOH/SDRR, 2350 Gillingham Dr, Brooks City-Base TX 78235-5103) or to any individual authorized by USNRC or Agreement State license or USAF or USN permit to evaluate leak tests for others.

D. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the NRC, the USAF Radioisotope Committee Secretariat, or the Medical Directorate of the Air Force Inspection Agency.

E. If the test required by Subsection A. or B. of this condition reveals the presence of 0.005 microcurie or more of removable contamination, the permittee shall immediately withdraw the sealed source from use and shall decontaminate it and either repair or dispose of it in accordance with NRC regulations and Air Force directives. A report shall be filed within 5 days of the test with the USAF Radioisotope Committee Secretariat (AFMOA/SG3PR, 110 Luke Ave Room 405, Bolling AFB DC 20332-7050) describing the equipment involved, the test results, and the corrective action taken.

19. Sealed sources containing permitted material shall not be opened or removed from devices by the permittee.
20. Maintenance or repair of portable devices involving removal of the sealed sources from the devices or dismantling of shielding may be performed by Troxler Electronic Laboratories, or by other persons specifically authorized by the NRC, the USAF Radioisotope Committee Secretariat, or an Agreement State to perform such services.
21. 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 3 years from the date of the inventory for inspection by the NRC, the USAF Radioisotope Committee Secretariat, or the Medical Directorate of the Air Force Inspection Agency and shall include:
 - a) inventory date, b) model and serial number of device or source, c) radionuclide and activity, d) device or source location, and e) signature of the Permit RSO certifying the inventory accuracy.
22. The permittee may transport permitted material in accordance with the provisions of 10 CFR 71, "Packaging of Radioactive Material for Transport" and 49 CFR 170 through 189, "Transportation" subject to any host nation restrictions under Status of Forces Agreements.
23. Transfer of permitted material may 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 may be disposed of in accordance with AFI 40-201.
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
554 RHS/CC (Application)

SUBJECT
Application for Material Permit

DATE
17-Jul-2007

RADIOACTIVE MATERIAL PERMIT
USAF RADIOISOTOPE COMMITTEE
SUPPLEMENTARY

Page 3 of 3

PERMIT NO.
GU-00300-00/00AFP

AMENDMENT NO.
0

DOCKET NO.
030-00300

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.

Date 10 December 2007 FOR THE USAF RADIOISOTOPE COMMITTEE

By RKBhat
RAMACHANDRA K. BHAT, Ph.D., CHP
Health Physicist
Radiation Protection Division and
USAF Radioisotope Committee Secretariat
Air Force Medical Operations Agency
Office of the Surgeon General