

Item 15

RADIATION PROTECTION PLAN
FOR
MARTIN MARIETTA CORPORATION
PEACEKEEPER FLIGHT TEST PROGRAM
AT
VANDENBERG AIR FORCE BASE, CALIFORNIA

Prepared by
Peacekeeper Flight Test Program
System Safety
Revision 1

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1.0 Purpose

The purpose of the Radiation Protection Program is to define the roles and responsibilities of those personnel and/or agencies involved in the receipt, handling, usage and/or disposal of radioactive material used on the Peacekeeper Flight Test Program at Vandenberg Air Force Base, California. Revision 1 provides clarification as considered useful.

2.0 Scope

The Radiation Protection Program outlines activities required of Martin Marietta Corporation (MMC) by the Nuclear Regulatory Commission to complete tasks on the Peacekeeper Flight Test Program involving radioactive material at Vandenberg Air Force Base (VAFB), California. Additional procedures for the handling of radioactive material may also be in effect as required by other agencies. The license is applied to the possession, installation and storage of firing units containing radioactive material by MMC at VAFB.

3.0 Radioactive Material Control

The MMC Radiation Protection Officer (RPO) reports directly to the Chief of System Safety for the Peacekeeper Flight Test Program at VAFB. The Chief of System Safety reports directly to the Director of the Peacekeeper Flight Test Program. The RPO is responsible for the Radiation Protection Program.

3.1 Employee Information

3.1.1 Training - The Vandenberg RPO received training from the Radiation Protection Officer of Martin Marietta Aerospace, Denver, Colorado. The Vandenberg RPO, in turn, developed and presented the training required to Peacekeeper Ordnance personnel. The training meets requirements found in 10 CFR 19.2.

3.1.2 Posting of Notices - Notices to workers are made available as required by 10 CFR 19.11.

3.2 Records

Records are maintained in accordance with 10 CFR 20.401 as applicable for surveys, monitoring, disposal and employee exposure.

3.3 Material Handling

3.3.1 Receipt of Radiation Sources - Peacekeeper Test Support Department at VAFB receives shipments of Peacekeeper components containing radioactive material in a manner consistent with 10 CFR 20.205 (a)(2).

USAF Bioenvironmental Engineering Services will assist the licensee, MMC, in meeting the requirements in 10 CFR 10.205 (b) and (c), requirements for monitoring received packages containing radioactive material. The NRC license number is 04-11398-04, and the licensee is located at the following address:

USAF Hospital/SGPB
Vandenberg AFB, CA 93437

USAF Environmental Engineering Services in a consulting role will conduct leak tests, if required. Analysis of swipe tests will be conducted by a USAF laboratory at Brooks Air Force Base at the following address:

USAF OEHL/RZA
Brooks AFB, TX 78235

or by some other laboratory qualified to conduct such analysis.

Packages containing sources of radioactive materials are opened following initial receipt in accordance with established procedures which contain special instructions for the type of package being opened. These procedures comply with 10 CFR 20.205(d). Per the limits of government contracts, MMC is not authorized to open a firing unit. MMC will not under current license agreement purposefully open or disassemble a firing unit.

3.3.2 Material Inventory - Peacekeeper Test Support Department at VAFB is responsible for maintaining the inventory of all Peacekeeper components containing radioactive material.

3.3.3 Security - Martin Marietta and Air Force Security at VAFB implements procedures to prevent unauthorized removal of Peacekeeper components containing radioactive material. Surveillance will comply with 10 CFR 20.207.

3.4 Labeling - Exemption from the labeling of storage areas with a caution sign warning against radioactivity applies according to 10 CFR 204(a). See paragraph 3.5. Labeling of firing units containing sources of radioactive materials is accomplished in accordance with 10 CFR 20.203(f).

3.5 Unrestricted/Restricted Areas

The requirements for a "Restricted Area" during normal operations to control radiation hazards do not apply because the quality and quantity of radiation emitted from the sealed sources would result in a dose amount below the limits described in 10 CFR 20.105(a) and (b). Sources to be used under this license are encased to the extent that no measurable ionizing radiation is emitted from the firing units.

It is conceivable that the firing unit containment housing a radioactive source could be broken. USAF Bioenvironmental Engineering Services will be called to assist in the event of damage to any sealed source of radioactive material in a Peacekeeper system component. USAF Bioenvironmental Engineering Services will monitor the area around the damaged component to evaluate the necessity of a "Restricted Area" designation.

3.6 Incident Reporting

Any incident of theft or loss will be reported in accordance with 10 CFR 20.402. Other incidents involving Peacekeeper components containing radioactive materials will be reported according to 10 CFR 20.403 and 20.405 as applicable.

3.7 Disposal

Disposal of radioactive material is accomplished by either return of the radioactive component(s) to the manufacturer or by placing the component(s) containing radioactive materials into the custody of a licensed agency of the U.S. Air Force at VAFB. In the event of a seal being broken where the environment of a component containing radioactive materials is contaminated, disposal of those amounts not recoverable in dry form might be disposed of into a sanitary sewerage system within limitations described in 10 CFR 20.303.

3.8 Auditing

The RPO monitors MMC's Test Support and Security Department at VAFB regarding activities related to handling of Peacekeeper components containing radioactive material. The audit is accomplished on a quarterly basis. The audit includes verification that all procedures applicable to the previous quarter were properly implemented and that unused procedures are ready for application.

USAF Bioenvironmental Engineering Services acts under their own radiation license and is not audited by the RPO. USAF Bioenvironmental Engineering Services provides to the RPO all records of monitoring activities conducted for MMC at VAFB (see 3.3.1 Receipt of Radiation Sources; and 3.6 Unrestricted/Restricted Areas).