

Item 5. Radioactive Material

A. Chemical Agent Monitors (CAMs).

1. Element and Mass Number: Nickel-63 (Ni-63)
2. Chemical and Physical Form: Ni-63 electroplated onto brass cylinders.
 - a. Source drawings and registration under the Nuclear Regulatory Commission's (NRC's) Registration for Radioactive Sealed Sources and Devices can be found in MA-0476-S-151-S, MA-0476-S-131-S, and NR-136-S-185-S, provided at enclosure (1). (MA-0476-S-151-S supercedes NR-476-S-151-S and MA-0476-S-131-S supercedes NR-476-S-131-S.)
 - b. CAM drawings and device registration under the NRC's Registration for Radioactive Sealed Sources and Devices can be found in NR-1129-D-103-S, provided at enclosure (2). (NR-1129-D-103-S supercedes NR- 0155-D-119-S.)
3. Maximum amount that will be possessed at any one time: Not to exceed 15 mCi (millicuries) per source and 1000 curies (Ci) total throughout the Marine Corps.
4. Ni-63 sources authorized for Marine Corps use are:
 - a. New England Nuclear (NEN) Model No. NER-004R
NR-0476-S-151-S
 - b. DuPont Merck Model Nos. NER-004 and NER-004R
NR- 0476-S-131-S and MA-0476-S-151-S
 - c. AEA Technologies QSA, Inc. (formerly Amersham Corporation) Model No. NBCD.
NR-136-S-185-S

B. Automatic Chemical Agent Detector Alarms (ACADAs).

1. Element and Mass Number: Ni-63
2. Chemical and Physical Form: Ni-63 electroplated onto brass cylinders.
 - a. Source drawings and registration under the NRC's Registration for Radioactive Sealed Sources and Devices can be found in source registration Nos. MA-0476-S-131-S, NR-136-S-185-S, provided at enclosure (1).
 - b. ACADA drawings and device registration under the NRC's Registration for Radioactive Sealed Sources and Devices can be found in NR-1129-D-101-S, provided at enclosure (2). (NR-1129-D-101-S supercedes previous registration No. NR- 0155-D-125-S.)
3. Maximum amount that will be possessed at any one time: Not to exceed 15 mCi per source, 30 mCi per device and 30 Ci total throughout the Marine Corps.
4. Ni-63 sources authorized for Marine Corps use are:
 - a. DuPont Merck Model Nos. NER-004 (MA-0476-131-S)
 - b. AEA Technologies QSA, Inc. Model No. NBCD.
NR-136-S-185-S