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DEPARTMENT OF THE ARMY  
HEADQUARTERS US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND  
5001 EISENHOWER AVENUE, ALEXANDRIA, VA. 22333

26 July 1984

Director  
Nuclear Material Safety and Safeguards  
ATTN: Radioisotopes Licensing Branch  
US Nuclear Regulatory Commission  
Washington, DC 20555

84 JUL 30 AM 1:02

Reference: DRCSF-P/84-0091; NRC Control No. 17758

Gentlemen:

are two copies of additional information regarding independent test procedures for verification of the quality for future procurements of strontium-90 sealed sources incorporated within the AN/UDM-2 Radiac Calibrator Set governed by NRC License Number 29-01022-08 issued to the US Army Communications-Electronics Command.

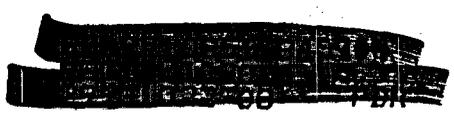
Please acknowledge receipt of correspondence on enclosed DA Form 209, Mail Reply Card.

Sincerely,

*[Signature]*  
DARWIN N. TARAS  
Chief, Health Physics,  
Safety Office

Enclosures

Copies Furnished:  
HQDA (DASG-PSP-E), WASH DC 20310 w/encl  
Director, DARCOM FSA, Charlestown, IN 47111-9669 w/encl  
Commander, CECOM, ATTN: DRSEL-SF-MR, Ft. Monmouth, NJ 07703 w/o encl



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FORM 91A



DEPARTMENT OF THE ARMY  
HEADQUARTERS US ARMY COMMUNICATIONS-ELECTRONICS COMMAND  
AND FORT MONMOUTH  
FORT MONMOUTH, NEW JERSEY 07703

REPLY TO  
ATTENTION OF:

DRSEL-SF-MR

17 July 1984

SUBJECT: Renewal and Complete Revision of US Nuclear Regulatory Commission  
(NRC) License Number 29-01022-08

Commander  
US Army Materiel Development and Readiness Command  
ATTN: DRCSF-P  
5001 Eisenhower Avenue  
Alexandria, Virginia 22333-0001

1. Reference is made to letter, DRCSF-P/84-0092, dated 3 July 1984, subject as above.
2. In response to referenced letter, the following represents this command's quality assurance (QA) testing requirements for the AN/UDM-2 Radiac Calibrator Sets authorized under subject NRC license:
  - a. Future refurbishments of the AN/UDM-2:
    - (1) First Article Testing (FAT) of the AN/UDM-2 sealed sources will be witnessed by CECOM Safety Office health physics personnel to assure compliance with military specification MIL-R-55350A(ER) and any amendments/revisions thereto.
    - (2) Government witnessing of the contractor providing sealed sources will be performed by CECOM Safety Office health physics personnel to assure compliance with US Department of Transportation (DOT) and International Atomic Energy Agency (IAEA) Special Form testing requirements, and American National Standards Institute (ANSI) Sealed Source Classification testing requirements.
    - (3) Government verification of the contract requirements as stipulated in MIL-R-55350A(ER), and any amendments/revisions thereto, will be performed by a representative from the Defense Contract Administrative Service (DCAS).
    - (4) Independent QA inspection of the sealed sources will be performed by either CECOM Safety Office health physics personnel, Lexington-Blue Grass Depot Activity (LBDA) Radiation Protection Officer (RPO) or a qualified designee, US Army Ionizing Radiation Dosimetry Center (AIRDC) RPO/health physics representatives or the Belvoir Research & Development Center's Material Technology Laboratory RPO/health physics representatives. QA procedures will involve leak testing of the AN/UDM-2 components containing the sealed sources, i.e., the Doserate Jig Assembly and the Dosimeter Discharge Well Assembly. Standard non-radiological QA inspection of the assembled AN/UDM-2's will be performed by LBDA supply representatives. Verification of the radiation output (calibration check) will be performed by the Area Calibration and Repair Center (ACRC),

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Lexington, prior to fielding. AIRDC will also perform additional leak testing requirements prior to fielding the AN/UDM-2's. There will be no sealed source failure regarding leak testing requirements. The contractor will be responsible for correcting all defects pertaining to the sealed sources. The entire AN/UDM-2 or the effected component(s) will be returned to the contractor for correction of the defect.

b. New procurements of the AN/UDM-2 Radiac Calibrator Sets.

(1) FAT, DOT/IAEA Special Form, ANSI sealed source classification testing, DCAS verification and independent QA inspection will be performed as indicated in subparagraph a(1) through a(4) above.

(2) There will be no sealed source failure of leak testing requirements.

(3) The contractor will be responsible for correcting defects regarding the AN/UDM-2 Radiac Calibrators. All AN/UDM-2's will be returned to the contractor for this purpose.

3. This command is presently instituting another contract procurement for the sealed source refurbishment of approximately 100 AN/UDM-2 Radiac Calibrator Sets. It is anticipated that 3M Company, St Paul, Minnesota, will obtain the contract for this purpose. Government witnessing of the FAT, DOT/IAEA Special Form, and ANSI sealed source classification testing requirements, paragraph 2a(1) and 2a(2) above, will be waived since the manufactured sealed sources (3M Company Model 3F1G) are commercially available NRC evaluated sources. Moreover, prototype DOT/IAEA and ANSI testing of these sources was previously witnessed by CECOM Safety Office health physics representatives during the April 1983 time-frame for sources manufactured by 3M Company under Contract DAAB07-82-C-H067. However, if 3M Company does not receive this contract, all of the requirements stipulated in paragraph 2a(1) and 2a(2) will be fulfilled.

4. The quality surveillance program for bulk storage of the AN/UDM-2 at LBDA will be performed by either the LBDA or AIRDC RPO, their alternates, or CECOM health physicists and will include the annual leak testing of a random sampling of at least one percent of depot assets and/or a minimum of five each, whichever is greater. AIRDC will provide leak test results to this headquarters. Appropriate action will be taken if results indicate a trend toward leakage.

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(NRC) License Number 29-01022-08

5. For further information regarding this matter, POC this command is Mr. Barry J. Silber, Autovon 995-4427.

FOR THE COMMANDER:



BERNARD M. SAVAIKO  
Chief, Safety Office

