



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-4005

## REGIONAL TECHNICAL ASSISTANCE REQUEST FORM

**Date:** January 29, 2003

**Mail and E-Mail to:** Donald A. Cool, Ph.D. (DAC), Director  
Division of Industrial and Medical Nuclear Safety , NMSS  
For E-Mail, cc: IMNS Secretary

**From:** Ken E. Brockman, Director **/RA/**  
Division of Nuclear Materials Safety, RIV

**Licensee:** Department of the Air Force, Eglin Air Force Base

**License Number:** 42-23539-01AF **Docket Number:** 030-28641

**Control Number:** 469166

**Letter dated:** Decommissioning Plan dated May 24, 2002.  
Supplemental Information Letter dated November 1, 2002.

**Enforcement Action being held in abeyance:** ( ) Yes (X) No

**Suggested change in licensing procedure (not enclosed):**

None.

**Problem/Issue:**

By letters dated May 24 and November 1, 2002, the licensee submitted a decommissioning plan (DP) and supplemental information regarding decommissioning of Test Area C-74L at Eglin Air Force Base, Florida. The area was used for depleted uranium (DU) munitions testing during the 1970's. The DP indicates that approximately 3200 kg of DU remains at the 4-acre site. This site has been initially classified as a Group 4 decommissioning project per NUREG-1757, Volume 1.

The Air Force proposes the following site specific acceptance criteria in the decommissioning process:

Building interior DCGL<sub>w</sub>: 99 dpm/100 cm<sup>2</sup> (net alpha) using COMPASS computer code; documented in calculation CE-Eglin-001.

Building exterior DCGL <sub>w</sub> :	5000 dpm/100 cm <sup>2</sup> (net alpha) using USACE EM-385-1-80/Table 6-4 and Regulatory Guide 1.86.
Equipment DCGL <sub>w</sub> :	5000 dpm/100 cm <sup>2</sup> (net alpha) using USACE EM-385-1-80/Table 6-4 and Regulatory Guide 1.86.
Soil DCGL <sub>w</sub> :	600 pCi/g (total uranium) using RESRAD and industrial scenario; critical population member is a range worker.
DCGL <sub>EMC</sub> :	44,000 cpm (gross counts) for the outdoor excavation action level using FIDLER survey instrument.

**Action Requested:**

Region IV requests NMSS review and approval of the site specific acceptance criteria to be used during the decommissioning of Test Area C-74L.

**Recommended Action and Alternatives:** (X) Approve or ( ) Reject

**TARs addressing similar issues (subject and date):**

IMNS-7892, Department of the Army, Aberdeen Proving Ground; site-specific soil DCGL for DU; March 21, 2000.

IMNS-7915, Department of the Army, Picatinny Arsenal; site-specific soil DCGL for DU; March 21, 2000.

IMNS-8196, Department of the Army, Picatinny Arsenal; site-specific building surface DCGL for DU; June 13, 2002.

**Background documents (identify those not sent electronically):**

The DP and supplemental information letter are available in ADAMS at Accession Numbers ML021970666, ML021970654, and ML023370482. The DP acceptance letter can be found at ML023290265.

**Remarks:**

In Item 6A of the DP, the Air Force commits to a 15-millirem per year TEDE; however, the DCGL calculations appear to be based on a 25-millirem per year TEDE. This potential discrepancy will have to be resolved with the Air Force.

**Headquarter Reviewer:** \_\_\_\_\_

**Regional Reviewer:** Robert Evans

Donald A. Cool

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**Reviewer Code:** W2

**Reviewer Phone Number:** (817) 860-8234 **FAX Number:** (817) 860-8188

**Request Needed by:** March 29, 2003

Donald A. Cool

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bcc (via ADAMS distrib.):

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TR Decker, RII

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