

December 14, 2007

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DNMS

Mr. Robert Evans  
U.S. Nuclear Regulatory Commission  
Region IV: DNMS: NMLB  
Suite 400  
611 Ryan Plaza Drive  
Arlington, TX 76011

**SUBJECT: ANALYTICAL RESULTS FOR SOIL AND SWIPE SAMPLES ASSOCIATED WITH GENERAL ATOMICS IN LaJOLLA, CALIFORNIA (INSPECTION REPORT #070-00734/2007-02) [RFTA NO. 08-001]**

Dear Mr. Evans:

The Oak Ridge Institute for Science and Education (ORISE) received two soil samples and three swipe samples associated with General Atomics in LaJolla, California on December 3, 2007. At your request, the soil samples were analyzed by gamma spectroscopy (GS) and the swipe samples were analyzed by low background alpha and beta counting (AP1, Revision 15; CP3, Revision 2). The analytical results for the swipes were all less than the removable release criteria of 1000 dpm per swipe for alpha and beta. The alpha minimum detectable concentration (MDC) was 8.9 dpm per swipe and the beta MDC was 15 dpm per swipe. The soil sample identifications are listed in Table 1. The GS data is presented in Table 2. The pertinent procedure references are provided in the tables.

ORISE's Quality Control (QC) requirements were met for these analyses. The QC files are available for your review upon request.

My contact information is listed below. You may also contact Wade Ivey at 865.576.9184 with any questions or comments.

Sincerely,



Dale Condra, Manager  
Laboratory

RDC/WPI:km

Enclosures

c: T. Carter, NRC/FSME/DWMEP T-8F5  
E. Knox-Davin, NRC/FSME/TWFFN 8A23  
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Docket No. 070-00734  
License No. SNM-696

Distribution approval and concurrence:	Initials
Technical Management Team Member	<i>AW for SK</i>
Quality Manager	<i>(PT)</i>

**TABLE 1**

**SAMPLE IDENTIFICATIONS  
AND COLLECTION DATA  
GENERAL ATOMICS  
LaJOLLA, CALIFORNIA**

<b>ORISE Sample ID</b>	<b>NRC Region IV Sample ID</b>	<b>Collection Date</b>	<b>Collection Time</b>
1757S0001	NRC-S-1	11/26/07	11:15 AM
1757S0002	NRC-S-2	11/26/07	11:40 AM
1757R0001	NRC-48	11/26/07	11:12 AM
1757R0001	NRC-49	11/26/07	11:35 AM
1757R0001	NRC-50	11/26/07	12:00 PM

TABLE 2

CONCENTRATIONS OF SELECTED GAMMA EMITTING RADIONUCLIDES  
IN SOIL SAMPLES  
BY GAMMA SPECTROSCOPY CP1, REVISION 15  
GENERAL ATOMICS  
La JOLLA, CALIFORNIA

ORISE Sample ID	NRC Region IV Sample ID	Radionuclide Concentrations (pCi/g dry weight) <sup>a</sup>					
		Co-60	Cs-137	U-235	U-238 by Th-234	Th-228 by Pb-212	Th-232 by Ac-228
1757S0001	NRC-S-1	-0.03 ± 0.03 <sup>b</sup> , 0.05	0.02 ± 0.02 , 0.04	0.12 ± 0.14 , 0.17	2.06 ± 0.82 , 0.66	0.99 ± 0.08 , 0.05	1.04 ± 0.17 , 0.13
1757S0002	NRC-S-2	0.01 ± 0.03 , 0.05	0.84 ± 0.07 , 0.04	0.18 ± 0.12 , 0.18	1.15 ± 0.51 , 0.64	1.13 ± 0.09 , 0.05	1.26 ± 0.23 , 0.12

<sup>a</sup>The MDCs are after the comma.

<sup>b</sup>Uncertainties represent the 95% confidence level, based on total propagated uncertainties.