

ORISE
OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

July 1, 2004

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

JUL 07 2004

**SUBJECT: ANALYTICAL RESULTS FOR SMEAR SAMPLES FROM KERR-McGEE
TECHNICAL CENTER, OKLAHOMA CITY, OKLAHOMA (INSPECTION
REPORT #040-08006/004-01) [RFTA NO. 04-001]**

Dear Mr. Munoz:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received 81 smear samples on June 1, 2004 that were collected from May 24, 2004 to May 27, 2004. The samples were analyzed for alpha and beta contamination using a low background alpha/beta counter (Procedure CP3, Revision 2). The requested MDC for alpha and beta activity was 20 dpm/smear using a two minute sample count time. The alpha and beta activity values for all the smears, except the beta values for E-30/57 in Survey Unit 102 and for C-33/78 in Survey Unit 101, were below the requested MDCs. The alpha MDC for a two minute count was 8.9 dpm and the beta MDC was 15 dpm. During our telephone conversation on June 7, 2004, you asked that these two smears be counted for a longer period of time to improve the counting statistics and confirm the activity values generated by the two minute count. The samples were counted for ten minutes. The beta activity for sample E-30/57 was 7.3 ± 4.0 dpm and the beta activity for sample C-33/78 was 19.2 ± 5.1 dpm. The beta MDC for a ten minute count was 5.6 dpm.

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

Please contact me at (865) 241-3242 or Wade Ivey at (865) 576-9184 with any questions or comments.

Sincerely,

Dale Condra

Dale Condra
Laboratory Manager
Environmental Survey and
Site Assessment Program

RDC/WPI:ar

Enclosure

cc: T. McLaughlin, NRC/NMSS/TWFN 7F27
E. Knox-Davin, NRC/NMSS/TWFN T8A23
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E. Abelquist, ORISE/ESSAP
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Distribution approval and concurrence:	Initials	Date
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