

April 2, 2002

Ms. Judith Walker
U.S. Nuclear Regulatory Commission
Region IV
Harris Tower
611 Ryan Plaza Drive - Suite 400
Arlington, TX 76011-8064

**SUBJECT: REVISION 1 TO THE REPORT FOR ANALYSIS OF THE WATER
SAMPLES FROM KERR-MCGEE CIMARRON, CRESCENT,
OKLAHOMA (DOCKET NO. 70-925; RFTA NO. 01-015)**

Dear Ms. Walker:

This letter is to report revised Tc-99 concentrations due to the reanalysis of five of the 13 water samples from Kerr-McGee Cimarron. The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received 13 water samples collected on September 5, 2001 at the Kerr-McGee Cimarron facility in Crescent, Oklahoma. ESSAP reanalyzed five water samples after discussions with the licensee's laboratory failed to identify any obvious error that would account for the observed differences in the analytical data generated by each laboratory.

A comparison of the two Tc-99 data sets indicated the concentrations of two of the samples, W003 and W009, were significantly different. A review of the analytical process was conducted. The review indicated that these samples were probably cross contaminated during the first batch of analytical work.

We apologize for this error. Cross contamination incidents are very rare in our laboratory, however, we are taking steps to increase our quality control program to further minimize such situations. A nonconformance was initiated and followup actions will be communicated to John Buckley.

The five water samples were reanalyzed for Tc-99 (Procedure AP5 Rev. 11 and CP4 Rev. 1) and the data are provided in the attached table. Emilio Garcia (NRC/Region IV) requested that only the revised Tc-99 data table for the five water samples be submitted with this revised letter report.

ESSAP's Quality Control (QC) procedures were followed for these analyses. The daily QC and detector background for the counting instrumentation used in the analyses were within acceptable limits.

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-2-

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Please contact me at (865) 241-3242 or Wade Ivey at (865) 576-9184 should you have any questions.

Sincerely,



Dale Condra
Laboratory Manager
Environmental Survey and
Site Assessment Program

RDC:WPI:ar

Attachment

cc: G. Purdy, NRC/NMSS/TWFN 7F27
E. Knox-Davin, NRC/NMSS/TWFN 8A23
E. Garcia, NRC/Region IV
W. Beck, ORISE/ESSAP
E. Abelquist, ORISE/ESSAP
T. Vitkus, ORISE/ESSAP
File/796

TABLE 1**REVISED CONCENTRATIONS OF TECHNETIUM-99
IN SELECTED WATER SAMPLES
KERR-McGEE CIMARRON
CRESCENT, OKLAHOMA**

ESSAP ID	NRC R-IV ID	Tc-99 Concentrations (pCi/L)
796W003	TMW-13-1284	30 ± 10^a
796W006	1336A-1287	840 ± 70
796W007	1208-1288	2530 ± 190
796W009	1206-1290	20 ± 10
796W010	1312-1291	780 ± 60

^aUncertainties represent the 95% confidence level, based on total propagated uncertainties.