



KERR-McGEE CORPORATION

1001 EAST DEEP ROCK • CUSHING, OKLAHOMA 74023

October 14, 2005

Mr. Derek Widmayer
Office of Nuclear Materials Safety & Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Docket No. 70-3073; License No. SNM-1999
Residual Source Term and Dose Model for License Termination

Dear Mr. Widmayer:

Kerr-McGee (KM) encloses herein two technical memos produced on our behalf by Nextep Environmental, Inc. Technical Memorandum 05-15, "Post-Decommissioning Radiological Assessment for Kerr-McGee Cushing Site", rev. 0, calculates residual dose as a result of completion of decommissioning activities at the site. Technical Memorandum 05-016, "Source Term Determination for the Kerr-McGee Cushing Site", calculates the source term remaining on site.

It is our understanding that the source term determination will provide the basis for NRC's calculation of residual dose. The radiological assessment will provide NRC needed information for NRC to develop a site-specific dose model.

These are submitted in an effort to expedite the license termination process. If you have any questions regarding these documents, please feel free to contact me at (405) 270-2694 or Mr. Harry Newman at (502) 339-9767. Thank you for your efforts to help us achieve license termination by the end of the year.

Sincerely,

Jeff Lux
Project Manager

Attachment: Technical Memorandum 05-15
Technical Memorandum 05-16

Cc: Blair Spitzberg, NRC Region IV
Jerry Matthews, DEQ