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**KERR-MCGEE CORPORATION**

POST OFFICE BOX 89 • CUSHING, OKLAHOMA 74023

TECHNOLOGY & ENGINEERING DIVISION

December 9, 1993

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Scott Thompson  
Oklahoma Department of Environmental Quality  
1000 N.E. 10th Street  
Oklahoma City, Oklahoma 73117-1212

Dear Mr. Thompson:

Pursuant to Section IX.2 of the Consent Order entered in State of Oklahoma v. Kerr-McGee Corporation, No. C-90-91-H, Kerr-McGee Corporation hereby submits the attached written progress report for the month of November, 1993.

If you have any questions or comments, please contact me at (405) 270-2637 (OKC) or (918) 225-7753 (Cushing).

Sincerely,

Jeff Ostmeyer  
Site Coordinator  
Kerr-McGee Technology and Engineering Division

cc:  
Bill Fisher - U.S. NRC, Arlington, Texas  
David N. Fauver - U.S. NRC, Washington, D.C.  
Kerr-McGee Citizens' Oversight Committee

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## RADIOLOGICAL INVESTIGATION AND REMEDIATION

No radiological field work was performed in November. Two new employees were hired in November to perform field work. The new personnel have had radiation safety training, and are learning how to perform radiological field work. Three Radiation Safety Procedures were prepared in November including:

1. Procedures Used
2. Performance of Radiological Surveys of Surface Contamination, External Radiation, and Airborne Radioactive Materials
3. Performance of Radiological Surveys of Soils

Completion of these procedures will allow Kerr-McGee to resume scoping and characterization surveys, and mowing in radioactive materials areas.

Work on the Cushing Site Decommissioning Plan and Unaffected Area Survey Plan continued in November. Most of the problems with the soil counting system have been resolved, but operating procedures and MDA calculations have not been completed. Arrangements were made with Mr. James D. Berger at ORISE to perform an analysis check for the Cushing counter system. This will help ensure results are obtained from the Cushing system.

## NON-RADIOLOGICAL ASSESSMENT AND REMEDIATION

Surface water that accumulated on waste pits and seepage from the french drain were transferred to treating ponds and neutralized. Treating Pond 5 was discharge once during November. No water was discharged from Treating Pond 1 during November.

Oil recovery from the interceptor trench sumps along Skull Creek continued in November. Some oil seepage is occurring along the west bank of Skull Creek, and is being contained and collected with absorbent booms and pads. It appears that some hydrocarbon may be passing under a portion of the west oil interceptor trench.

Fluor Daniel Williams Brothers and Kerr-McGee are working on the remedial design, particularly the disposal cell evaluation. The spray pond remediation demonstration was postponed until appropriate radiological data could be generated.

ACTIVITIES PLANNED FOR DECEMBER 1993

Radiological

1. Continue preparation of radiation safety procedures.
2. Continue work to complete modification of soil counter and confirmation with Mr. Jim Berger, ORISE.
3. Continue work on Site Decommissioning Plan and Unaffected Area Survey Plan.
4. Continue radiological field training of new employees.
5. Receive and review draft of at least five chapters from SDP.

Non-radiological

1. Continue to recover oil from the interceptor trench and off the surface of Skull Creek before it leaves the site.
2. Continue neutralizing and discharging water from waste pits.
3. Maintain limestone dams in drainage around Pits 2 and 3.
4. Continue work on Remedial Design, in particular:
  - begin disposal cell design,
  - run HELP model on liner/cover system.