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**KERR-MCGEE CORPORATION**

POST OFFICE BOX 89 • CUSHING, OKLAHOMA 74023

TECHNOLOGY & ENGINEERING DIVISION

December 9, 1992

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Fenton R. Rood  
Solid Waste Management Service  
Oklahoma State Department of Health  
1000 N.E. 10th Street  
Oklahoma City, Oklahoma 73152

Dear Mr. Rood:

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, 1992.

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  
William M. Kemp - Radiation Protection Service  
David H. Fauver - U.S. NRC, Washington, D.C.  
Kerr-McGee Citizens' Oversight Committee

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#### RADIOLOGICAL INVESTIGATION AND REMEDIATION

Kerr-McGee's top priority at Cushing for the remainder of 1992 is the identification, recovery and shipment of option 4 materials. Other radiological work will be performed when possible.

Initial sampling of the grid over the berm area was completed in November. Recovery of identified option 4 material remaining in the dump area continued.

Four shipments (234 drums total) of option four material from the dump area ( $\approx 18$  pCi/gr thorium and  $\approx 165$  pCi/gr uranium) were made to Barnwell, South Carolina. An additional 36 drums of soil were packaged and are ready for shipment. Oil and grease content of this material was less than 0.1 percent by volume. Contaminated carbon crucibles were included in these shipments.

The soil counting system worked well in November. Approximately 775 samples were counted during November.

Removal of the small area of option 4 material under the Harris Building identified as containing more than one percent asbestos was deferred until proper precautions can be taken. Health physics personnel monitored for asbestos in Trash Dump and Harris Building when employees were working in those areas.

#### NON-RADIOLOGICAL ASSESSMENT AND REMEDIATION

Surface water that accumulated on the waste pits and seepage from the french drain were transferred to holding ponds and neutralized. Holding pond 1 was discharged once and holding pond 5 was discharged twice during November.

Oil entering Skull Creek between pit 5 and the railroad bridge is being contained with absorbent booms. Absorbent pads are being used to pick up the oil. Since completion of the oil interceptor trench, very little oil has been collected from the surface of Skull Creek.

Initiated work to expand the capacity of holding pond 5. When completed the total capacity of holding pond 5 will be increased several fold.

Employees received annual eight hour HAZWOPER refresher training during November.

ACTIVITIES PLANNED FOR DECEMBER 1992

Radiological

1. Assign enrichment and total uranium concentration values to carbon crucibles removed from the dump area in November.
2. Ship option 4 material removed from the dump area.
3. Recover and ship option 4 material below and around the uranium production (Harris) building.
4. Continue preparation of health physics program.
5. Recover option 4 material from area northwest of pit 4.

Non-radiological

6. Continue to recover oil from Skull Creek before it leaves the site, and from the oil interceptor trench.
7. Continue neutralizing and discharging water from waste pits.
8. Continue with Remedial Investigation and Feasibility Study.
9. Respond to OWRB draft Waste Disposal Permit.
10. Continue expansion of holding pond 5.
11. Complete site health and safety plan.
12. Collect samples of neutralized sludge from demonstration for permeability tests.