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KERR-McGEE CORPORATION

KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

September 12, 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 August, 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 N. 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.

Most of the radiological work performed in August was in and around the Harris Building. Decontamination of the accessible materials in the uranium production area was completed. A two meter grid was established under the Harris building and docks, and the area was surveyed and sampled. Additional gridding, surveying and sampling was initiated around the perimeter of the building.

Work in the dump during August was limited to establishing a grid over the berm area. Three piles of option four material remaining in the dump area were sampled to determine oil and grease content on August 31.

Sixty shipping drums were filled with option four material (≈ 25 pCi/gr thorium and ≈ 10 pCi/gr uranium) from the dump area. Oil and grease content of this material is about 1.2 percent.

Representative carbon rods and crucibles were sampled, and a correlation between uranium concentration and survey instrument readings was established. Once enrichment and total uranium concentration can be assigned, the crucibles and rods will be placed in shipping drums for appropriate disposal.

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. Water was discharged from holding pond 5 five times in August. Holding pond 1 was discharged twice during August.

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 for storage in drums. Samples have been collected from filled drums and analyzed for TCLP organics and metals, and ignitability. All results received are below maximum permissible contaminant levels except for one ignitability. Oil is being recovered from the booms and pads. The booms and pads will be shipped to a waste disposal site.

Construction of an oil interceptor trench, to prevent oil from entering Skull Creek between pit 5 and the railroad bridge, was completed on the east side of the creek and initiated on the west side of the creek in August.

Evaluation of applicable technologies for waste pit remediation continues. This information will be used to prepare a feasibility study (FS) report.

Modification of the fence around pits 1 and 2 was completed in August. Repair and installation of a new fence along the west side of the southwest corner of the property was completed in August with the exception of a water gate.

ACTIVITIES PLANNED FOR SEPTEMBER 1992

1. Ship option 4 material removed from the dump area.
2. Assign enrichment and total uranium concentration values to carbon rods and crucibles removed from the dump area.
3. Recover option 4 material below the uranium production building.
4. Move remaining option 4 material recovered from dump area to barrel house.
5. Continue preparation of health physics program.
6. Continue to recover oil from Skull Creek before it leaves the site.
7. Complete construction of oil interceptor trench.
8. Continue neutralizing and discharging water from waste pits.
9. Perform on-site acid sludge neutralization demonstration the week of September 14, 1992.