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KERR-McGEE CORPORATION

POST OFFICE BOX 89 • CUSHING, OKLAHOMA 74023

TECHNOLOGY & ENGINEERING DIVISION

June 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 May, 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.

The Radiological Site Remediation Plan for the Cushing site, in accordance with the Consent Order between Kerr-McGee Corporation and the Oklahoma State Department of Health (OSDH), was submitted to the OSDH on May 8, 1992.

Work in the dump area during May was limited due to inclement weather. Areas containing option four material were identified and work to excavate this material was initiated in May. This work is slowed due to the presence of both thorium and uranium at varying ratios.

Final survey of the uranium production area walls, posts, and beams is complete. When working in the field is not possible, we are cleaning hot spots located during the final survey.

Material removed from Skull Creek Samples is in three piles south of the Harris Building. This material is being counted as time allows. Approximately half of the samples are counted. Necessary sorting of the piles will be performed when all samples are analyzed. The majority of the soil analyzed to date has been option one, with a little option two material. No option four material has been detected in the piles.

One tank dike (B) was repaired for storage of radiologically contaminated materials during May. Repair of the other tank dikes is delayed due to higher priority work. Approximately five cubic feet of option four material in dike C was located and removed. Radiological contamination in dikes A and C is now limited to option two material.

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 twice in May. Holding pond 1 was not discharged in May.

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 CLP ignitability. All results received are below maximum permissible contaminant levels.

The first draft of the RI report, "Phase I Remedial Investigation Report", was submitted to the OSDH on May 29, 1992.

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

The east bank of the new Skull Creek channel and the slope northeast of pit 5 are covered with vegetation. The area between pit 5 and the new Skull Creek channel was seeded, but growth is limited. This area will be fertilized when the weather permits.

Permission was obtained from property owners to build a fence with access gates around the site. Construction of the fence began in May.

ACTIVITIES PLANNED FOR JUNE, 1992

1. Remove option 4 material from the dump area and under the Harris building.
2. Continue analysis of samples from soil piles.
3. Submit a proposal for an oil interceptor trench to the State.
4. Disconnect and remove inactive gas line along Deep Rock Rd.
5. Complete the installation of a fence around the site.
6. Continue to recover oil from Skull Creek before it leaves the site.
7. Continue preparation of health physics program.
8. Make a presentation to Cushing City Council.
9. Improve road to dump area and pits 1 and 2.
10. Continue repair and preparation of tank dikes for storage of radiologically contaminated materials.
11. Begin expansion of fence around pits 1 and 2.
12. Install a fence around holding pond 5 area.
13. Improve method of neutralizing water in holding ponds.