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KERR-MCGEE CORPORATION

KERR-MCGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

May 10, 1993

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 March, 1993.

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

Sincerely,

Jeff Ostmeier
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 received a license from the Nuclear Regulatory Commission for the Cushing site. Initial areas proposed for Unaffected Area designation were determined. These areas include Pits 1, 2, 3, & 5 and the south tank farm. Delineation of "hot spots" outside of restricted areas was performed by health physics personnel.

Radiological field work during April focused on surveying and sampling temporary storage areas A and C. Final surveying of concrete from the former west dock of the Harris building and the storage building was performed when weather conditions prevented field work.

Samples of radiologically contaminated materials were sent to Envirocare of Utah, Inc., and Barringer Laboratories, Inc., for complete characterization. The results of these tests will be used to determine disposal criteria and waste destination.

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 twice and pond 5 was discharged three times during April. A Waste Disposal Permit was issued by the OWRB in April to cover these discharges.

Limestone dams were maintained along drainages around Pits 2 and 3 to neutralize water seeping from the pits. The water treating systems at ponds 1 and 5 are working very well. An additional transfer pump was acquired in April for Pond 1, but electric service installation was not completed.

Pit five was graded to inhibit ponding of water and accelerate collection and treatment of stormwater. Sulfur Dioxide emissions were monitored continually during grading activities, and levels rarely reached or exceeded 2 ppm.

Oil collection activities continue. About 430 gallons of oil were recovered from the interceptor trench sumps in April. A system to automate the oil recovery process is under construction. Used booms and pads were disposed of at BFI with OSDH approval.

The Kerr-McGee Hydrology Department continued evaluating areas for a potential OIW (other industrial waste) landfill site in early April. This work was delayed until May due to prior commitments for the drilling rig.

Kerr-McGee acquired the Martin and ERW properties in April. Initial clean-up of these areas was initiated, and included activities such as building clean-up and security, pipe and concrete removal, and chemical/hydrocarbon recovery.

Mark Howery, Oklahoma Department of Wildlife Conservation, toured

the site and made recommendations to accelerate flora/fauna establishment in the new Skull Creek channel. These recommendations will form the basis of an application to the Corp of Engineers to modify the creek channel.

A wildlife mortality inspection was performed around the acid sludge pits on April 20, 1993, by Kash B. Schriefer, Special Agent, Division of Law Enforcement, U.S. Fish and Wildlife Service, and Randall Reigh, Ranger-Payne County, Oklahoma Department of Wildlife Conservation. No mortality was observed on the site. Mr. Schriefer stated that Pit 3 is the only pit that presents a potential hazard to wildlife.

ACTIVITIES PLANNED FOR MAY 1993

Radiological

1. Continue preparation of health physics program.
2. Survey and sample future radiological storage areas.
3. Continue to up-date information on "hot spots" outside of Pit 4, the Harris building, and the trash dump.
4. Continue cleaning concrete from Harris building dock.
5. Prepare detailed plans for consolidating contaminated materials.
6. We will submit a license ammendment request to the NRC concerning radioactive materials areas, restricted areas, and controlled areas.

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. Continue investigation to locate a potential OIW landfill site.
4. Submit application to Army Corp of Engineers to implement plan for Skull Creek flora/fauna enhancement.
5. Maintain limestone dams and monitor pH in drainage around Pits 2 and 3.
6. Stabilize banks of Skull Creek to control erosion.
7. Participate in OSDH public meeting to discuss the RI/FS and clean-up alternatives.