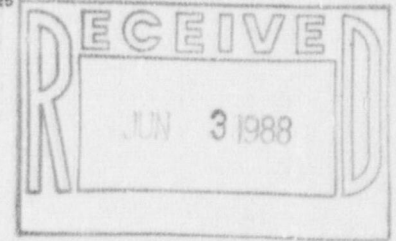




KERR-McGEE CORPORATION

KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73126

May 31, 1988



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Charles L. Cain, Chief
Nuclear Material Licensing Section
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

RE: Byproduct Material License
#35-12636-05
Docket 030-05950

Dear Mr. Cain:

A review of the Operating and Emergency Procedures for well logging activities has been conducted and two clarifying changes have been made. The "CAUTION" notice in Item 4 of Procedure No. 04, "Recovery of Probe Lodged Down-Hole," has been expanded to clarify actions not to be taken when a source probe is lodged downhole.

Item 5 of Procedure No. 06, "Sealed Source Leak Testing," has been revised to show that source leak test kits will be forwarded directly to the commercial leak testing company rather than to the Kerr-McGee Technical Center, who in turn would mail them to the supplier. Kerr-McGee believes that sending of test kits directly from Casper to the test laboratory will minimize the chances of kits being lost in the mail and speed up receipt of results.

Copies of the revised procedures are enclosed for insertion in your copy of the Operating and Emergency Procedures. The changes are noted with a line in the margins. Should you have any questions concerning these revisions please contact Ms. Maybelle Landagora at (405) 270-2607.

Sincerely,

J. C. Stauter
John C. Stauter, Director
Nuclear Licensing & Regulation

JCS/MBL/at

Enclosure

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WELL LOGGING PROCEDURE

Subject: RECOVERY OF PROBE LODGED DOWN-HOLE

No: 04

Rev: 1

Date: 31 May 1988

This procedure describes the action to be taken in the event a probe becomes lodged down hole. The possibility of this occurring can be minimized by centering the probe above the hole before beginning the logging operation, not spudding the probe and if the probe becomes stuck--attempt to free the probe by wiggling only once.

If a probe becomes lodged down hole the following steps should be followed:

1. When a probe becomes lodged in a hole, place tension on the line. Contact T. A. Fossberg, Lead Logging Technician, or leave a message at the exploration office in Casper. The following information should be available and given to Mr. Fossberg or the office contact:
 - Drilling company name
 - Drill hole location
 - Formation in which the probe is lodged (e.g. sand or shale)
 - Depth at which the probe is lodged
 - General condition of the hole
 - On what the probe is suspected to be lodged (e.g. rock, sand or shale)
 - Other pertinent information
2. If the office has been contacted and the Lead Logging Technician was not in, attempts should be made to contact him by radio.
3. Notify the driller to move the rig back on location. Drilling mud should be mixed in a pit for use in conditioning the hole. Wash pipe, cable guide tool, and junk basket should be available.
4. If contact has not been made with the Lead Logging Technician or Supervisor and the driller is on location, have the driller enter the hole with a 1-1/2" washout pipe. The length of washout pipe used should be recorded.

CAUTION!!

- NEVER PLACE REGULAR DRILL PIPE WITH THE DRILL BIT INTO THE HOLE CONTAINING A LODGED PROBE.
- NEVER ROTATE THE DRILL STEM WHILE THE CABLE IS IN THE HOLE.

Always keep an accurate count of the washout pipe placed into the hole. Lower the pipe slowly. Place sufficient pipe into the hole so that the pipe final position is located approximately 30 feet above the top of the lodged probe.

5. Condition the hole using a very low pump pressure.

Subject: RECOVERY OF PROBE LODGED DOWN HOLE

6. Wash gently to top of probe and slowly past the probe if possible. The long and short probe lengths are 7'6" and 4'0", respectively, including head springs. A rock on top of the probe will be indicated during the washout operation. Always keep tension on the cable while washing. Keep a hand on the cable to feel if the drill pipe is catching the cable or if the washout pipe sets down on the probe, causing movement.
7. If the probe does not wash free, WAIT until the Lead Logging Technician or other designated person recommends proceeding further. At no time apply excessive tension on the line.
8. Check the equipment at one hour intervals to ascertain if the down hole signal to the probe is complete. If not, record the depth in the hole that signal was lost.
9. Within one week of a probe recovery, rehead the probe and save the portion of the cable which was in the probe head. This will be used to evaluate damage to the cable from washing and fishing operations.
10. If a probe is deemed irretrievable, the requirements outlined in 10 CFR 39.77, "Notification of Incidents and Lost Sources; Abandonment Procedures for Irretrievable Sources" must be implemented. See Procedure No. 5, "Abandonment of Source Lost Down Hole."
11. The following individuals shall be informed that a source has been lost down hole and classified as irretrievable.

Terry A. Fossberg	Office: 307-234-6951 Home : 307-577-1360
David E. Smouse	Office: 307-234-6951 Home : 307-265-2240
A. D. Robinson	Office: 405-270-3337 Home : 405-341-9686
Larry W. Leach	Office: 307-237-9318 Home : 307-237-4906
John C. Stauter	Office: 405-270-2623 Home : 405-341-9374
Scott C. Munson	Office: 405-270-2544 Home : 405-348-4287
Maybelle B. Landagora	Office: 405-270-2607 Home : 405-794-8594

12. The Nuclear Regulatory Commission must be informed of the circumstances of the loss immediately by telephone and a written followup report within 30 days in accordance with 10 CFR 39.77. See Procedure No. 5, "Abandonment of Source Lost Down Hole". The number for notifying the NRC is listed on NRC Form 3 and in 10 CFR 20, Appendix D.

WELL LOGGING PROCEDURE

Subject: SEALED SOURCE LEAK TESTING

No.: 06

Rev.: 1

Date: 31 May 1988

Each sealed source in use must be leak tested at six month intervals. Leak tests should be performed the first week of January and the first week of July of each year, unless specified otherwise by the Lead Logging Technician. If there is any reason to suspect leakage, such as following an accident, the source should be checked.

The following instructions shall be followed for performance of leak testing:

1. Dissolve the packet of detergent supplied with the leak test kit in a small amount of water.
2. Remove the swab from the plastic container on the left and dip into the prepared detergent solution. Wipe the source storage portion of the source container thoroughly with the swab. Replace the swab into the plastic container from which it was removed.
3. Remove the only dry swab from the plastic container on the right and repeat the wipe process. DO NOT DIP THIS SWAB IN THE DETERGENT SOLUTION. Replace this dry swab in the plastic container from which it was removed.

CAUTION: Each swab must be replaced in the plastic container from which removed!

4. Enter the requested information on the leak test kit cover.
5. Return the leak test kit to the commercial leak testing company.
6. A record must be maintained for each source showing the date, time, person who performed the test and the results.