UNITED STATES

ATOMIC ENERGY COMMISSION

DIRECTORATE OF REGULATORY OPERATIONS

REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

TIONS

6-3 TELEPHONE (312) 858-2860

March 14, 1974

70-1193

H. D. Thornburg, Chief, Field Support and Enforcement Branch Directorate of Regulatory Operations, Headquarters

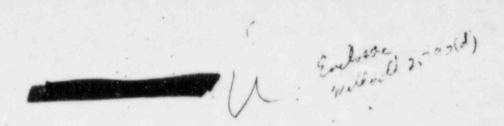
DIRECTORATE OF REGULATORY OPERATIONS NOTIFICATION OF AN INCIDENT OR OCCURRENCE - KERR-McGEE PLUTONIUM MATERIAL UNACCOUNTED FOR QUANTITY

The attached communication concerning the results of the March, 1974 plutonium reinventory is forwarded with the recommendation that it be issued as "Blue Sheet".

Materials and Plant
Protection Branch

8609090253 860815 PDR F0IA CANTREL86-281 PDR

Lansmitted by They Tacamile at 11:35 am.



No.

DIRECTORATE OF REGULATORY OPERATIONS NOTIFICATION OF AN INCIDENT OR OCCURRENCE

Facility: KERR-McGEE NUCLEAR CORTORATION

CIMARRON FACILITY - PLU ONIUM PLANT

CRESCENT, OKLAHOMA

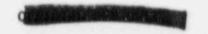
Problem: SIGNIFICANT MATERIAL UNACCOUNTED FOR (MUF) QUANTITY

This is to supplement the notification of March 6, 1974, regarding the

February plutonium material unaccounted for loss quantity of (11.5) kilograms

of plutonium at Kerr-McGee.

During the period from March 1 through 11, 1974, the licensee conducted a new inventory. This inventory, which involved an extensive cleanout of process equipment and a reevaluation of previous measurements, accounted for 10.1 kilograms of plutonium reducing the February material unaccounted for to 1.4 kilograms. Since the start of reporting of material unaccounted for quantities in August 1973, the cumulative material unaccounted for is 3.6 kilograms of plutonium out of a total system throughput of 400 kilograms. This unaccounted for plutonium is not considered significant for the operation involved and is believed to be in the process piping systems. There is no indication of theft or diversion.





The licensee resumed production operation on March 11, 1974.

Action by Regulatory Operations:

- An RO inspector was on-site from March 1 11 and observed the preparation for and completion of the licensee's new inventory.
- An RO physical security inspection was conducted. No significant deficiencies were identified.
- 3. Based on the results of the licensee's reinventory and the findings from our inspection, the licensee was permitted to resume production operations. RO will continue to monitor closely subsequent licensee inventories.
- 4. The assistants to the Commissioners, the staff of the Joint Committee on Atomic Energy and the Office of Information Services have been notified by telephone.

Contact:

Further information concerning this occurrence can be obtained from:

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