KERR-McGEE CORPORATION
KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

March 16, 1971

MAR 22 1971
U.S. ATOMIC ENERGY COMMISSION
Regulatory
Mail Section

Mr. Donald A. Nussbaumer
Fuel Fabrication and Transportation Branch
Division of Materials Licensing
United States Atomic Energy Commission
Washington, D. C. 20545

Regulatory File Cy.

Subject: Amendment of License SNM-928, Docket 70-925
Increased Possession Limit for U-235

Dear Sir:

By this letter and its attachments, the Kerr-McGee Corporation files amendment application No. 24 for authorization to possess no more than 6,000 kilograms of U-235 at any one time.

Additional business opportunities during 1971, which primarily involve the storage of low enriched $UF_6$ for customers, show the need for increasing our maximum U-235 possession limit from 3,000 kgs to 6,000 kgs.

Approval of this amendment by April 20, 1971 is urgently requested, and will enable us to provide this service required by our customers on a timely basis.

Very truly yours,

F. K. Pittman
Director, Technical Services
Nuclear Operations Division

FKP:GJS:mb

Attachments

DOCKETED
USAEC
MAR 22 1971
REGULATORY
MAIL SECTION
DOCKET CLERK

1326

ACKNOWLEDGED

# AMENDMENT APPLICATION NO. 24 TO LICENSE SNM-928, DOCKET 70-925

## INTRODUCTION

This application for license amendment requests our U-235 possession limit be increased from 3,000 kgs to 6,000 kgs, and describes a new storage area for storing 30 inch cylinders containing $UF_6$ at a U-235 enrichment not exceeding 5%.

### A. Packages To Be Stored

Packages to be stored will be the OR-30 cylinder as described in our license amendment No. 71-15, dated January 15, 1971.

### B. Storage Area and Cylinder Arrangement

The storage area is shown on the attached drawing NPD-107-808. The cylinders are to be stored only one high and in a horizontal position. The drawing shows the arrangement.

### C. Nuclear Safety Evaluation

Under optimum conditions of interspersed moderation, as shown by Figure 3 of K-1686, the $k_\infty$ is 0.83 for 5% U-235 enriched $UF_6$ within the 0.4 inch steel jacket. This is more than adequate to account for calculational uncertainties.