

40-2061

**KERR-McGEE CORPORATION**

KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

August 23, 1985

85 SEP -4 19:01

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RETURN TO 396-SS

William A. Nixon
Uranium Process Licensing Section
Uranium Fuel Licensing Branch
Division of Fuel Cycle & Material Safety
Office of Nuclear Material Safety & Safeguards
United States Nuclear Regulatory Commission
Washington, D. C. 20555

RE: License STA-583
Docket 40-2061

Dear Mr. Nixon:

Attached for Commission approval is a license amendment request to authorize the construction of a new haul road between the factory and disposal site areas of the West Chicago facility. The new haul road will be located at the western boundary of the intermediate site, adjacent to the EJ&E right of way. This new road will facilitate the movement of materials to the disposal site by providing a safe, straight path.

The road base will be constructed using demolition rubble (bricks, concrete) generated from demolition of the factory site buildings. The average level of thorium contamination on the material is below NRC's unrestricted release limits.

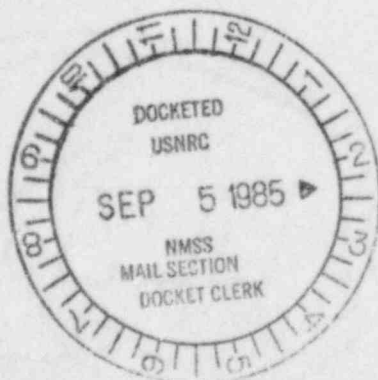
If you have additional questions, please contact me at (405) 270-2623.

Sincerely,

J. C. Stauter

J. C. Stauter, Director
Nuclear Licensing & Regulation

JCS/cwp



8512040087 850823
PDR ADOCK 04002061
C PDR

0223E

25715

AMENDMENT REQUEST
KERR-McGEE CHEMICAL CORPORATION
WEST CHICAGO FACILITY
LICENSE STA-583, DOCKET 40-2061

INTRODUCTION

Kerr-McGee Chemical Corporation is continuing decontamination and demolition work at its West Chicago Facility. Planning for future on-site activities includes the construction of an improved access road between the Factory and Disposal Sites. The existing driveway has served its purpose of providing access to the Disposal Site for the low volume of vehicles using it. However, with the projected equipment and material movement activities required between the Factory and Disposal Sites during stabilization, modification of the existing access driveway to facilitate this traffic is required.

AREA DESCRIPTION

The location of the existing driveway and proposed access road between the Factory and Disposal Sites lies in the west portion of the Intermediate Site adjacent to the EJ&E right of way. (See Figure 1.) Kerr-McGee Chemical Corporation has recently acquired the tract of land previously owned by Commonwealth Edison. This property, identified on Figure 1, was the location of an electrical power substation. The substation is no longer in operation, and all equipment has been removed. Purchase of the property by Kerr-McGee now allows a straight and wider access between the Factory and Disposal Sites.

A drawbridge was installed several years ago to provide access across Commonwealth Edison property. This bridge is no longer required. The existing driveway between the Factory and Disposal Sites is restricted to one-way traffic and winds its way around the incineration system, which is located on the south end of the Factory Site. The proposed road will allow straight access, along the west side of the incinerator, and provide for safe two-way heavy construction equipment traffic, with unobstructed vision for the operators.

PROPOSED ACTIVITY

Kerr-McGee Chemical Corporation plans to use on-site demolition materials (bricks and concrete rubble) to construct a new roadway which will provide adequate access between the Factory and Disposal Sites. The old Commonwealth Edison property and an area near the northwest corner of the Disposal Site will require significant fill material to bring the road surface to the proper elevation. Building rubble generated from the Factory Site demolition activities will be used for filling these areas and provide a stable road base.

The average surface contamination of the rubble is 500 dpm/100 cm² direct alpha and less than 50 dpm/100 cm² removable alpha. These levels are less than the limits authorized by NRC for release of material for unrestricted* use. Due to the insoluble form of the thorium contamination present on the rubble surfaces, no impact to the surface or groundwater is expected to occur. The new road will be graded so as to prevent surface water from leaving the site.

Personnel and equipment available on-site will be used to construct the new road.

HEALTH AND SAFETY

The proposed activity described in this amendment request will be conducted in accordance with the NRC-approved facility health physics and safety procedures. Dust control methods will be employed to control airborne activity during rubble and soil movement and placement activities. Airborne levels will be measured in work areas and downwind in unrestricted areas. No impact to surface water or groundwater is anticipated due to the low concentrations and insoluble form of the thorium. Surface water and groundwater samples will be collected routinely at the facility.

Building rubble used for construction of the road will be removed and placed into the Disposal Cell. This activity will take place following completion of the Factory Site decontamination work.

* Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material.

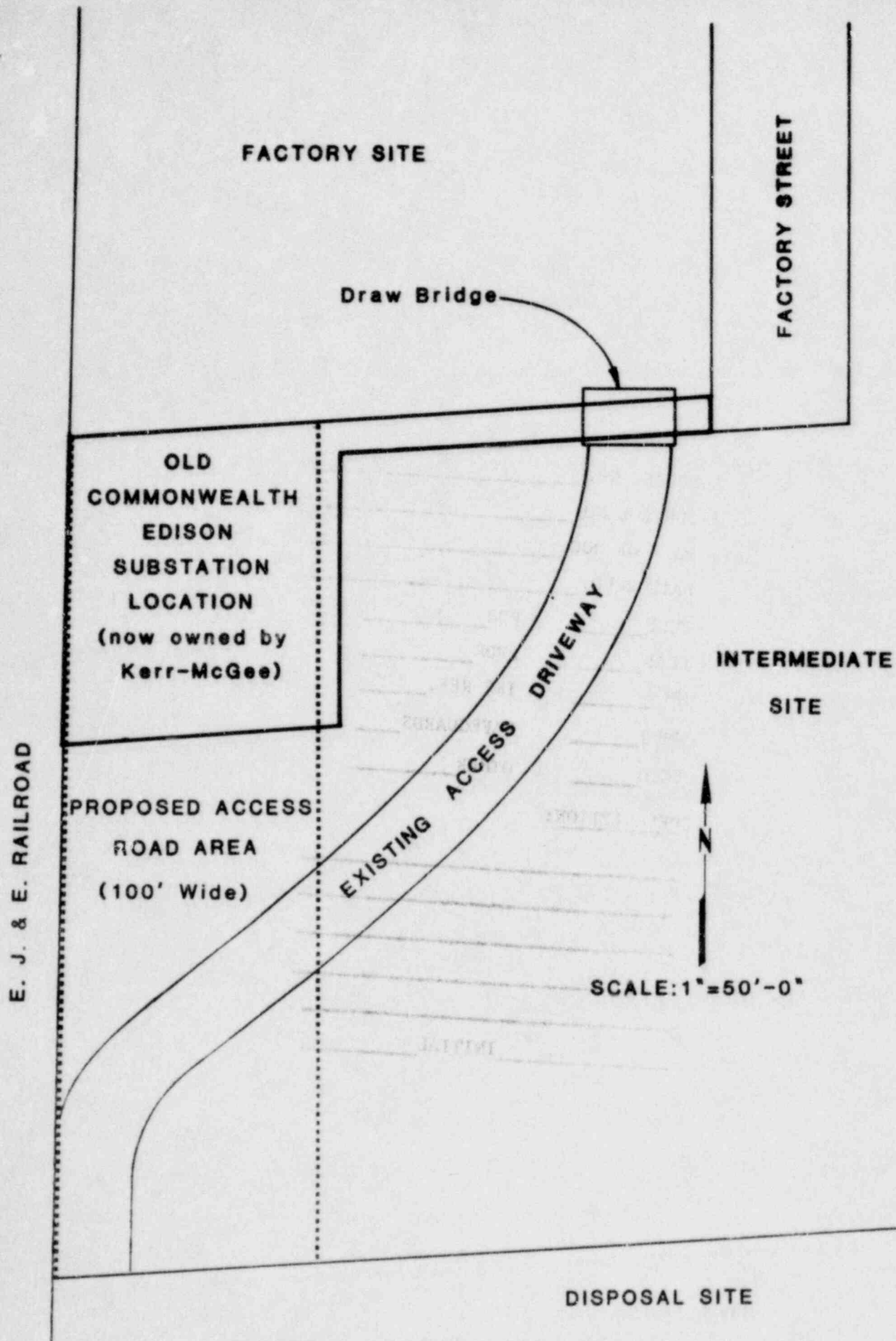


FIGURE 1. ACCESS ROAD LOCATION

DOCKET NO. 40-2061
CONTROL NO. 25715
DATE OF DOC. 08/23/85
DATE RCVD. 09/04/85
FCUF ☒ PDR ☒
FCAF ☐ LPDR ☒
WM ☐ I&E REF. ☒
WMUR ☐ SAFEGUARDS ☐
FCTC ☐ OTHER ☐

DESCRIPTION:

attached for
Commission approval
is a license
amendment request

09/09/85 INITIAL CEC