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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

AUG 12 1980

40-2061

The Honorable A. Eugene Rennels
Mayor of City of West Chicago
West Chicago, Illinois 60185

Dear Mayor Rennels:

Thank you for your comments, provided in your letter to Mr. Nixon dated July 29, 1980, on Kerr-McGee Chemical Company's application for an amendment to their license which would authorize the incineration of thorium-bearing wastes at their West Chicago site. I can assure you that all of them will be considered during our review of the application; NRC has gone on record previously as requiring similar information prior to approving the disposal of waste by incineration (see enclosure). Also, we will notify your office prior to taking action on this application so that any additional comments you may have can be considered.

If there are any further questions regarding this application, please feel free to call me or Mr. Nixon of my staff.

Sincerely,

A handwritten signature in cursive script that reads "W. T. Crow".

W. T. Crow, Section Leader
Uranium Process Licensing Section
Uranium Fuel Licensing Branch
Division of Fuel Cycle and
Material Safety

Enclosure: As stated

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INFORMATION REQUIRED FOR COMMISSION APPROVAL OF
TREATMENT OR DISPOSAL BY INCINERATION

Revised October 3, 1979

1. State specifically the isotopes you wish to incinerate. For each isotope listed, you should submit calculations demonstrating that air concentrations of the effluents at the stack are in accordance with the requirements of Section 20.106 of 10 CFR Part 20.
2. Submit the characteristics of the incinerator such as height of the stack, height of and distance to buildings in the surrounding areas, rated airflow of the incinerator in cubic feet per hour or similar units and its proximity to any air intake ducts.
3. The gaseous effluent from the incinerator stack should not exceed the limits specified for air in Appendix B, Table II, 10 CFR Part 20, when averaged over a twenty-four (24) hour period.
4. In order to be in compliance with the ALARA philosophy stated in Section 20.1(c) of 10 CFR Part 20, the gaseous effluent from the incinerator stack should be a fraction (approximately 10%) of the limits specified for air in Appendix B, Table II, 10 CFR Part 20, when averaged over a one year period.
5. Describe the method of measurement or estimation of the concentration of radioactive material appearing in ash residue.
6. Describe the procedures for handling and disposing of ash from the incinerator.
7. Describe procedures to be followed to prevent overexposure of personnel during all phases of the operation, including instruction given to personnel handling the combustibles and the ash.
8. Submit evidence that all State and local regulations concerning incineration of radioactive material have been met by your institution.
9. State the maximum number of burns to be performed in any one week and the maximum number of burns per year.