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

JAN 31 1980

DOCKET NO.: 40-3392
APPLICANT: Allied Chemical Corporation
FACILITY: Metropolis, Illinois Nuclear Service Div.
SUBJECT: REVIEW OF LICENSE AMENDMENT APPLICATION FOR FUTURE
DECOMMISSIONING PLAN, LICENSE NO. SUB-526, AMENDMENT NO. 3
REVIEWER: A. Soong

I. Introduction

Allied Chemical Corporation (Allied) is a multi-product chemical manufacturing facility producing sulfur hexafluoride, iodine and antimony pentafluorides, liquid fluorine and uranium hexafluoride. The production of uranium hexafluoride is the only operation requiring licensing by US NRC pursuant to the provisions of 10 CFR 40.

Allied, by letter dated August 14, 1978, submitted a plan for the future decommissioning of the places of use and sites authorized by Materials License No. SUB-526, so that they could be released for unrestricted use.

II. Decommissioning Plan and Costs

The general decommissioning plan submitted by Allied has the following features:

1. Approximately 20,000 ft.² of the plant site is considered to be a contaminated area which needs to be decontaminated.
2. The plan includes criteria for the disposition of equipment and facilities as follows:
 - a. For sale to other NRC licensed persons.
 - b. Release to unrestricted use.
 - c. Burial in an approved site or on-site.
3. A detailed step-by-step decommissioning plan for the facility will be submitted to NRC for approval prior to the start of decontamination.

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4. Upon completion of the decontamination operation, a radiological survey of the entire site will be conducted and the survey results will be submitted to NRC for termination of the license.
5. Based on Allied's previous clean-out experience for the entire plant in 1964, Allied estimates that 30 tons of uranium could be recovered in the course of decontamination and that sale of this recovered uranium would yield over two million dollars which would be committed to the decontamination effort.

III. Financial Plan

Allied, by an attachment to the August 7, 1978 letter, committed that adequate funds will be available for decontamination of the facility at the time of decommissioning.

IV. Conclusion

The staff has reviewed the decommissioning plan of Allied Chemical Nuclear Service Division and conclude that the plan is reasonable and appears to be adequate. Allied proposed in the plan that on-site burial of radioactive contaminated material be allowed as one of possible ways of disposing of the contaminated material. On-site burial of radioactive material cannot be approved at this time. Allied Chemical was informed, however, that application may be made for on-site burial at the time of decommissioning if such burial is permitted by the regulations at that time.

The staff has evaluated Allied's financial plan for decontamination of the facility and has accepted the letter commitment from the corporate vice president as adequate assurance that the facility will be decontaminated at the end of plant life so it can be released for unrestricted use.

On the basis of the findings in the current assessment, it is recommended that Condition No. 17 of Source Material No. SUB-526 be amended to include Allied's decommissioning and financial plans. The Condition should read as follows:

- Condition 17. At the end of plant life the licensee shall decontaminate the facility and site in accordance with the general decommissioning plan (except that approval for burial of radioactive contaminated material on-site is not granted) submitted in the enclosures to the letter dated August 14, 1978, so that the facility and site can be released for unrestricted use.

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The financial commitment, made by a corporate officer in a letter dated August 7, 1978, to ensure that funds will be available for decommissioning, is hereby incorporated as a condition of the license.

Soong
A. L. Soong
Uranium Process Licensing Section
Uranium Fuel Licensing Branch
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Material Safety

Approved by:

W. T. Crow
W. T. Crow, Section Leader