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Docket 70-687

Docket No. 70-687
SNM-639

NOV 23 1981

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MEMORANDUM FOR: Leland C. Rouse, Chief
Advanced Fuel and Spent Fuel Licensing Branch
Division of Fuel Cycle and Material Safety

FROM: Wendy W. Ting
Advanced Fuel and Spent Fuel Licensing Branch
Division of Fuel Cycle and Material Safety

SUBJECT: UNION CARBIDE CORPORATION (UCC), MEDICAL PRODUCTS
DIVISION, AMENDMENT APPLICATION DATED AUGUST 20, 1981
REQUESTING AUTHORIZATION TO STORE RADIOACTIVE WASTE
CONTAINING ENRICHED URANIUM IN ITS NEW WASTE STORAGE
FACILITY, LICENSE NO. SNM-639, DOCKET NO. 70-687



Discussion

UCC has requested that Condition 9 of its existing License No. SNM-639 be amended to authorize the storage of radioactive waste containing enriched uranium in its new waste storage facility as specified in UCC's letter of submittal dated August 20, 1981.

We requested technical assistance from the Uranium Fuel Licensing Branch to review and evaluate criticality safety criteria of this amendment request. This request for assistance was made through a memorandum from L. C. Rouse, Chief, Advanced Fuel and Spent Fuel Licensing Branch to R. G. Page, Chief, Uranium Fuel Licensing Branch dated October 21, 1981. In an October 23, 1981 memorandum from R. G. Page to L. C. Rouse, the Uranium Fuel Licensing Branch provided a nuclear criticality safety review of the license amendment application. In an October 28, 1981 memorandum from A. T. Clark, Jr. to W. W. Ting, both of the Advanced Fuel and Spent Fuel Licensing Branch, A. T. Clark provided a radiation protection review of UCC's new waste storage area.

Mr. Page has concluded that the nuclear criticality safety as presented in the amendment is adequate. Dr. Clark, based on his direct observation and discussions with the UCC personnel, and coupled with a planned analysis under ALARA principles for the license renewal application, concluded that the health and safety of UCC employees are adequately protected. These evaluations are attached.

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Leland C. Rouse

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Evaluation

Based on discussion above, the amendment application was reviewed and evaluated. The review of the proposed revised license amendment and supportive documents has shown that:

- . The nuclear criticality safety controls provide an adequate margin of safety for the protection of the health and safety of the operating personnel, the public, and the environment.
- . There should be no adverse effect as a result of approving amendment on the radiological protection of the UCC operation.
- . In accordance with 10 CFR § 51.5(d)(4), no environmental report, environmental impact appraisal or assessment, negative declaration or finding of no significant impact or environmental impact statement is required with respect to the issuance of the license amendment.

Recommendation

The proposed activities have no detrimental impact on nuclear criticality safety and radiological protection of the UCC operation. Therefore, approval of the proposed amendment is recommended.

Original signed by
Wendy W. Ting

Wendy W. Ting
Advanced Fuel and Spent Fuel
Licensing Branch
Division of Fuel Cycle and
Material Safety

Enclosure:

1. Memo to LCRouse
frn RGPPage dtd 10/23/81
2. Memo to WWTing
frn ATClark, Jr. dtd 10/28/81

Original signed by
Leland C. Rouse

Approved by:

L. C. Rouse, Chief
Advanced Fuel and Spent Fuel
Licensing Branch
Division of Fuel Cycle and
Material Safety

OFFICE ▶	FCAF <i>WWT</i>	FCAF <i>ATC</i>	FCAF <i>LCR</i>				
SURNAME ▶	WWTing	ATClark	LCRouse				
DATE ▶	11/16/81	11/17/81	11/23/81				