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70-687

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Union Carbide Corporation
Medical Products Division
ATTN: Mr. James J. McGovern
Business Manager, Radiochemicals
P. O. Box 324
Tuxedo, New York 10987

Gentlemen:

This is in response to your December 16, 1980 letter which transmitted the final consolidation and revisions to your Fundamental Nuclear Material Control Plan.

We have determined that the consolidated and revised FNMC Plan dated May 15, 1980 is acceptable and that the alterations will not adversely affect the common defense and security nor the public health and safety. Accordingly, we are revising License Condition 2.1 of Materials and Plant Protection Amendment MPP-3 (revised and re-issued in its entirety) to your License No. SNM-639, effective immediately, as shown in the enclosure.

The enclosure also reflects the deletion, as well as the necessary retention, of License Conditions found in the November 3, 1978 issue of Amendment MPP-3.

We have determined that the enclosure to your letter dated December 16, 1980, contains information of a type specified in 10 CFR 2.790(d). Accordingly, pursuant to Section 2.790(d)(1), such information is deemed to be commercial or financial information within the meaning of 10 CFR 9.5(a)(4) and shall be subject to disclosure only in accordance with the provisions of 10 CFR 9.12.

Sincerely,

151

James G. Partlow, Chief
Material Control and Accountability
Licensing Branch

Enclosure:
As-stated

1/15/81

OFFICE ▶	SGML <i>RJ</i>	SGML <i>RB</i>	SGML <i>JP</i>				
SURNAME ▶	RJackson:jml	RBrightsen	JPartlow				
DATE ▶	1/16/81	1/16/81	1/16/81				

Enclosure

UNITED STATES
NUCLEAR REGULATORY COMMISSION

LICENSE AMENDMENT
FOR
SPECIAL NUCLEAR MATERIAL SAFEGUARDS

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974, and Title 10, Code of Federal Regulations, Chapter 1, Part 70, the following amendment to the special nuclear material license identified below is hereby issued, incorporating requirements for the control, accounting, and physical security of special nuclear material.

Licensee

Name: Union Carbide Corporation

License No. SNM-639

Address: Sterling Forest Research Center
P.O. Box 324
Tuxedo, New York 10987

Amendment No. MPP-3 (Revision I)
superseding all previous
safeguards amendments

Docket No. 70-687

CONDITIONS

2.0 FACILITY OPERATION

- 2.1 The licensee shall follow the Fundamental Nuclear Material Control Plan dated May 15, 1980; and as revised in accordance with the provisions of 10 CFR 70.32(c).
- 2.2 No statement in the licensee's Plan identified in Condition 2.1 shall relieve the licensee of a requirement of 10 CFR 70 unless granted in a specific exemption or exception set forth as a condition of this license.
- 2.3 Operations involving special nuclear materials which are not described in the Plan identified in Condition 2.1 shall not be initiated until an appropriate safeguards plan has been approved by the Nuclear Regulatory Commission.
- 2.4 The licensee shall collect recovery data pertaining to the first year of the Uranium Waste Form Process operation and summarize actual versus estimated SNM material balance data in a report due within 30 days after the licensee's receipt and evaluation of all pertinent data. This report shall be sent to NRC Headquarters, Division of Safeguards, Material Control and Accountability Licensing Branch and a copy to the NRC's Region I Office of Inspection and Enforcement."

3.0 MEASUREMENTS

- 3.1 The licensee or his designated agent shall measure, except as specified in Conditions 3.2 and 3.3, the uranium and U-235 content of all special nuclear material receipts, shipments, waste discards, and material inventoried.
- 3.2 Measurements are not required on sealed PuBe sources, and those samples intended for analysis and testing which have been determined by other means to contain less than ten grams U-235 each.
- 3.3 Enrichment factors determined from plating solution materials can be applied to U-235 values for sealed targets for purposes of obtaining uranium values.
- 3.4 All internal transfers of uranium from MBAs shall be based on measurements for element and isotope, except as specified in Conditions 3.2 and 3.3.

4.0 MEASUREMENT CONTROL

- 4.1 Notwithstanding the requirements in 10 CFR 70.57(b)(4) to provide sampling systematic errors and to conduct engineering tests on all material types, the licensee shall follow the Plan identified in License Condition 2.1.

6.0 RECORDS AND REPORTS

- 6.1 The licensee shall use his or his designated agent's measured values for SNM accounting, except as specified in Condition 3.2.
- 6.2 The licensee shall report on a monthly basis all intentional discards and inventory differences. The ID shall be that which has been determined during the month as a result of completing a material balance around a single operation, a number of operations, or the entire plant. This report shall be made within fifteen (15) days after the end of the month in which the discard was made or the inventory difference was determined. Reports shall be sent to the NRC Regional Office.
- 6.3 All accounting records, including measurement source data documents and internal transfer records, shall be included in the accounting records retained for five years.

6.4 In lieu of the requirement in 10 CFR 70.54 that the Form NRC-741 be completed and distributed within 10 days after receipt of nuclear material, the licensee may use a Form NRC-284 to acknowledge receipt where measurements cannot be completed in the time specified. Receipt measurements shall be completed and reported on the Form NRC-741 within 30 days after receipt of material.

7.0 INTERNAL CONTROL

7.1 The same individual shall not sign a document as both the Shipper and Receiver.

7.2 Accurate records shall be established and maintained which provide on a daily basis knowledge of the identity, location, and quantity of all SNM within the plant in discrete items and containers.

FOR THE NUCLEAR REGULATORY COMMISSION

Effective Date of Amendment
MPP-3 (Revision I)
JAN 19 1981



J. G. PARTLOW, CHIEF
MATERIAL CONTROL LICENSING BRANCH
DIVISION OF SAFEGUARDS