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APR 12 1985

SGFF:RLJ  
70-687

Union Carbide Subsidiary B, Inc.  
(Company B)  
Sterling Forest Research Center  
ATTN: Mr. J. J. McGovern  
Business Manager, Radiochemicals  
P. O. Box 324  
Tuxedo, New York 10987

Gentlemen:

We have issued a new Safeguards Amendment SG-1 to your License No. SM-639 to replace Material and Plant Protection Amendment MPP-3. Your new amendment, which is effective immediately, was updated to incorporate revised License Condition 2.1. This license condition has been revised from the one stated in our September 26, 1984, letter to properly incorporate your revised Fundamental Nuclear Material Control (FNMC) Plan dated November 1, 1982; the page changes made thereto dated May 1, 1984; and to affirm that Appendices A through F are for demonstration purposes only.

Should you have questions or comments please feel free to contact us.

Sincerely,

Original signed by Willard B. Brown

Willard B. Brown, Chief  
Fuel Facility Safeguards  
Licensing Branch  
Division of Safeguards, NMSS

Enclosure:  
Safeguards Amendment SG-1

07000687560M (closed)

OFFICE	SGFF	SGFF	SGFF	SGFF	SGFF		
SURNAME	RJackson:bas	ESuarez	OSmith	CNSmith	WBBrown		
DATE	4/10/85	4/11/85	4/11/85	4/12/85	4/12/85		

UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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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 specific safeguards requirements for special nuclear material.

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Licensee:

Name: Union Carbide Subsidiary B., Inc. License No.: SNM-639  
(Company B)  
Address: Sterling Forest Research Center Safeguards Amendment: SG-1  
P. O. Box 324 Docket No.: 70-687  
Tuxedo, New York 10987  
Date Issued: APR 10 1985

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CONDITIONS

1.0 FACILITY ORGANIZATION

Currently no license conditions under this section. The appropriate requirements have been incorporated into the approved plan.

2.0 FACILITY OPERATION

2.1 The licensee shall follow the Fundamental Nuclear Material Control Plan dated November 1, 1982; the page changes made thereto dated May 1, 1984; and as revised in accordance with the provisions of 10 CFR 70.32(c). Appendices A through F marked "DEMONSTRATION" are included for descriptive and clarification purposes and are not part of the FNMC Plan.

2.2 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.

3.0 MEASUREMENTS

3.1 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.

3.2 Enrichment factors determined from plating solution materials can be applied to U-235 values for sealed targets for purposes of obtaining uranium values.

#### 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.

4.2 Notwithstanding the requirements of 10 CFR 70.51(e)(4)(i) to calculate the associated limit of error of material unaccounted for (i.e., LEID), the LEID value need not be calculated if the Plant inventory difference (ID) is less than 300 grams of uranium or U-235.

4.3 Notwithstanding the requirement in 10 CFR 70.57(b)(8)(ii) to have a replicate program for the determination of random errors, this replicate program is not required provided the Plant ID is less than 300 grams of uranium or U-235.

#### 5.0 INVENTORY

5.1 Notwithstanding the requirements of 10 CFR 70.51(d) and 70.51(e)(2), the licensee is not required to inventory the SNM described in Section 5.0 of the Plan identified in License Condition 2.1.

#### 6.0 RECORDS AND REPORTS

Currently no license conditions under this section. The appropriate requirements have been incorporated into the approved plan.

#### 7.0 INTERNAL CONTROL

7.1 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.

#### 8.0 MANAGEMENT

Currently no license conditions under this section. The appropriate requirements have been incorporated into an approved plan.

Amendment No. SG-1  
Docket No. 70-687  
License No. SNM-639

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- 9.0 PHYSICAL PROTECTION REQUIREMENTS FOR SPECIAL NUCLEAR MATERIAL  
OF MODERATE STRATEGIC SIGNIFICANCE
- 9.1 The licensee shall maintain and fully implement all provisions of  
the Commission approved security plan titled, "Physical Security  
Plan for the Union Carbide Corporation Facility at Tuxedo, New York,  
Revisions 3 and 4," dated April 30, 1983, and May 19, 1983,  
respectively; and as revised in accordance with the provisions of  
10 CFR 70.32(e).

For the Nuclear Regulatory Commission

*Willard B. Brown*

Willard B. Brown, Chief  
Fuel Facility Safeguards  
Licensing Branch  
Division of Safeguards, NMSS

Date of Amendment APR 12 1985