

LRL:CPH
Docket No. 70-36

Doc. Rm., w/encl.
Formal, w/encl.
Suppl., w/encl.
I&R Reading, w/encl.
LRL Reading, w/encl.
C. P. McCallum, LRL, wo/encl.

MAR 11 1959

Mallinckrodt Nuclear Corporation
Second & Mallinckrodt Streets
St. Louis 7, Missouri

Attention: Dr. W. M. Leiders
Technical Director

Gentlemen:

Enclosed is your Special Nuclear Material License SNM-33, as amended.

You will note that the license does not approve the shipping procedures described in your application of February 2, 1959. In order that we may continue our review of these procedures, you should provide us with additional information concerning the criteria you will use to prevent a condition of criticality occurring due to interaction between containers in shipment. The criteria set forth in your letter, Tables 5, 6 and 7, of EID 7016, does not appear to be applicable to your particular activities since it applies to material volumes of less than 4.5 liters. You should also describe the physical form or forms in which the eleven kilograms of uranium metal will be shipped.

DISTRIBUTION

ORRO Attn: Dr. H. M. Roth, w/encl.

D. F. Musser, NMM, w/encl.

J. C. Ryan, FIN, w/encl.

Div. of INS, w/encl.-(2)

ltrs. dtd. 2/2/59 already
sent. 2/12/59

H. Steele, LRL, w/encl.

S. R. Gustavson, LRL, w/encl.

Enclosures:

SNM-33, as amended

Very truly yours,

J. G. Delaney

Chief, Nuclear Materials Section
Licensing Branch

Division of Licensing and Regulation

8-159

AIR MAIL

OFFICE ▶	LRL	LRL	FIN			
SURNAME ▶	CPMcCallum/rh	JGDelaney				
DATE ▶	3/10/59	3/11/59	3/11/59			

UNITED STATES
ATOMIC ENERGY COMMISSION

SPECIAL NUCLEAR MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 70, "Special Nuclear Material Regulations," a license is hereby issued authorizing the licensee to receive and possess the special nuclear material designated below; to use such special nuclear material for the purpose(s) and at the place(s) designated below; and to transfer such material to persons authorized to receive it in accordance with the regulations in said Part. This license shall be deemed to contain the conditions specified in Section 70.32(a) of said regulations, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee 1. Name Mallinckrodt Nuclear Corporation 2. Address Second & Mallinckrodt Streets St. Louis 7, Missouri		3. License No. SEM-33, as amended 4. Expiration Date January 31, 1962 5. Docket No. 70-36
6. Special Nuclear Material Uranium enriched in the U-235 isotope.	7. Maximum quantity of special nuclear material which licensee may possess at any one time under this license is limited to that which may be used in accordance with the procedures specified in Item 8 below.	
8. Authorized use For the preparation of uranium metal compounds, blending, polluting waste recovery and fuel preparation in accordance with the procedures described in the licensee's applications of Dec. 10 & 15, 1958, Jan. 22 & 30, Feb. 2 (research lab.) and Feb. 9, 1959.		
9. Quantity of special nuclear material allocated to licensee pursuant to Section 70.31(b) of said part None herein allocated		

CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
Authorized place of use: The licensee's plant near Hazelton, Missouri, as described in the licensee's application.
11. **All transfers of uranium enriched in the U-235 isotope are to be made in accordance with the procedures approved by the Commission.**

For the U. S. ATOMIC ENERGY COMMISSION

Date of issuance **MAR 11 1959**

U. S. GOVERNMENT PRINTING OFFICE: 1956-O-385852 **J. C. Delaney**
Division of Licensing and Regulation