

MALLINCKRODT CHEMICAL WORKS

MANUFACTURERS OF
FINE CHEMICALS FOR MEDICINAL, PHOTOGRAPHIC
ANALYTICAL AND INDUSTRIAL PURPOSES

FACTORIES: ST. LOUIS, JERSEY CITY, MONTREAL
SALES OFFICES: ST. LOUIS, NEW YORK, CHICAGO, CINCINNATI, CLEVELAND,
DETROIT, LOS ANGELES, PHILADELPHIA, SAN FRANCISCO, MONTREAL, TORONTO

CABLE ADDRESSES
MALLINCKRODT ST. LOUIS
DESABRIDO NEW YORK
CODES
A B C FIFTH EDITION
A B C SYSTEM
BENTLEY'S COMPLETE PHRASE
BENTLEY'S SECOND PHRASE

SECOND AND
MALLINCKRODT STS ST. LOUIS, 7. MO.

Mallinckrodt's
FINE CHEMICALS
Standard Since 1867

2 February 1959

Mr. Lyall Johnson
Licensing Branch
Div. of Licensing & Regulation
U. S. Atomic Energy Commission
Washington 25, D.C.

SUBJECT: Special Nuclear Material License No. SNM-33

Dear Mr. Johnson:

Mallinckrodt Nuclear Corporation has received requests for the preparation of research quantities of special uranium compounds, such as uranium carbide, uranium nitride, and special forms of uranium oxide as a direct consequence of having supplied similar materials from our research laboratory made from normal or depleted uranium. We are, therefore, requesting an extension of our SNM-33 license to permit the preparation of these research quantities in our research laboratory. We are requesting:

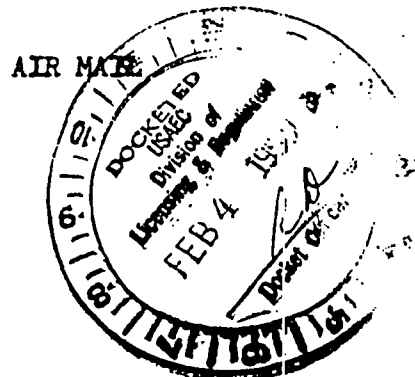
1. That the research laboratory be permitted to have at any one time one assay of special nuclear material in process,
2. That the quantity in all cases be limited to the "limited safe" batch as given in Table 17, E-1019, Part 4, Deleted,
3. All of one assay material will be completely removed from the laboratory before any other is used under this license extension,
4. That the license permit manufacturing of any and all uranium compounds in the research facilities including pellets and shapes under the restrictions listed above,
5. If an order for more than a "limited safe" batch is presented to us, the additional material will be stored in our approved storage vault and the total quantity in the laboratory at any one time will be limited to the safe batches given in Table 17 of E-1019, Part 4, Deleted.

If there is further information required prior to approval, we request that you call us, collect, so that we may eliminate any delays.

Very truly yours,

MALLINCKRODT NUCLEAR CORPORATION

W. M. Leaders
W. M. Leaders
Technical Director



WML:dj

E-132