

UNITED STATES ATOMIC ENERGY COMMISSION
COMPLIANCE INSPECTION REPORT

Name and address of licensee Mallinckrodt Nuclear Corporation Second & Mallinckrodt Streets St. Louis 7, Missouri	2. Date of inspection January 12 thru 14, 1960
	3. Type of inspection Reinspection (1)
	4. 10 CFR Part(s) applicable 20 and 70
	5. License number(s), issue and expiration dates, scope and conditions (including amendments)

License No.	Date	Expiration	Scope and Conditions
SNM-33, as amended (70-36)	12-28-59	1-31-62	Scope: Uranium enriched in the U-235 isotope, limited to that which may be used in accordance with following specified procedures, for the preparation of uranium in various chemical and physical forms, and related activities, including storing and shipping, in accordance with the procedures described in the licensee's application of Dec. 10 & 15, 1958 and Jan. 22 & 30, Feb. 2 (Research Lab.), 5 & 9, May 11 & 25, June 29, July 16 and Dec. 23, 1959. Conditions: Authorized place of use: The licensee's plant near Hematite, Missouri, as described in the licensee's application.

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 FOLDER Alford, Henry Bell, 70 598

6. Inspection findings (and items of noncompliance)

The licensee conducts a source material and special nuclear material processing program under License Nos. SNM-33, SNM-230, C-2734 and C-4495. The program is conducted in the licensee's plant located at Hematite, Missouri. The radiological health and safety program at the Hematite plant is under the direction of appropriately trained and qualified personnel and appears to adequately protect the health and safety of licensee employees and the public from potential radiation hazards incident to the activity. Criticality control is the responsibility of the Plant Manager with assistance from personnel who have had a basic course dealing with criticality at Oak Ridge National Laboratory. Generous use is made of consulting services where criticality problems are involved. Adequate radiation monitoring equipment is available for use in the program. Material accountability is accomplished with an efficient control and record system. Personnel are monitored with a licensee film badge service and bio-assays that are commercially furnished. Surveys have been routinely made of airborne radioactivity, general and specific radiation levels, and concentrations of radioactivity in the licensee's plant effluent. Records have been kept of the surveys and a review of the records revealed no levels or concentrations in excess of the limits specified in 10 CFR 20. The plant areas and containers are posted as required by 10 CFR 20.

No items of noncompliance were observed or otherwise noted during the course of this inspection.

7. Date of last previous inspection August 18 and 19, 1958 (initial)	8. Is "Company Confidential" information contained in this report? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (Specify page(s) and paragraph(s))
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DISTRIBUTION:

Division of Inspection
Washington, D. C.

Division of Licensing and Regulation
Washington, D. C.

Approved by: Jack T. Sutherland
Jack T. Sutherland
Oak Ridge Operations Office
(Operations office)

February 10, 1960
(Date report prepared)

If additional space is required for any numbered item above, the continuation may be extended to the reverse of this form using foot to head format, leaving sufficient margin at top for binding, identifying each item by number and noting "Continued" on the face of form under appropriate item.

RECOMMENDATIONS SHOULD BE SET FORTH IN A SEPARATE COVERING MEMORANDUM