

COMPLIANCE INSPECTION REPORT

1. Name and address of licensee Spencer Chemical Company Dwight Building Kansas City 5, Missouri	2. Date of inspection January 20, 1959
	3. Type of inspection Initial
	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-154 As Amended	7-28-58	4-1-60	<p>Scope: Uranium enriched in the U-235 isotope, not to exceed 100 kilograms of contained U-235, for use in the process of converting UF₆ to UO₂, or scrap material to nitrate or oxide, using the procedures described in the applications of Sept. 15, Oct. 7, and Dec. 19, 1957; April 16, May 14 and 16, June 6 and 23, 1958; except that for the blending operation approval is given under the May 16, 1958, application for the blending of materials up to 2.3% enriched in U-235 in a maximum batch size containing no more than ten kilograms of U-235 provided the blending operation is conducted in a dry non-hydrogenous atmosphere.</p> <p>Conditions: Authorized activity to be conducted at licensee's Jayhawk Works located between Pittsburg, Kansas, and Joplin, Missouri.</p>

6. Inspection findings (and items of noncompliance)

The Licensee's current program involving the use of low enrichment materials presents an acceptable risk of hazard from criticality and radiological health and safety of Spencer Chemical Company personnel and the general public. General procedures and operating rules to insure criticality safety are used as described in the license. Check list procedures are not in use, however, log book and data sheets are used for control of the process. The process equipment in Spencer's facility largely conforms to that described in their application of May 16, 1958, except that modifications were made in the pulse columns and the evaporator was insulated with several inches of insulating material which forms a reflector. Written radiological health and safety procedures were submitted as a part of the application, however, these are mostly explanations and descriptions of material and not specific detailed safety rules for the program. Quality control and process control samples are routinely taken and analyzed. Adequate records are kept for accountability of licensed material. Records have been kept of waste disposals. Radiation surveys have been made and records kept of the survey findings. Records are kept of monthly film badge readings supplied by the E. S. Landauer Company. Records are kept of monthly urinalysis results from the Nuclear Science and Engineering Corporation. The Licensee's facilities were found to be posted in accordance with the requirements of 10 CFR 20. The only items of noncompliance observed or otherwise noted during the course of this inspection are as follows:

(a) [illegible]

(b) [illegible]

(c) [illegible]

(d) [illegible]

(e) [illegible]

(f) [illegible]

(g) [illegible]

(h) [illegible]

(i) [illegible]

(j) [illegible]

(k) [illegible]

(l) [illegible]

(m) [illegible]

(n) [illegible]

(o) [illegible]

(p) [illegible]

(q) [illegible]

(r) [illegible]

(s) [illegible]

(t) [illegible]

(u) [illegible]

(v) [illegible]

(w) [illegible]

(x) [illegible]

(y) [illegible]

(z) [illegible]

(continued on reverse side)

Date of last previous inspection: August 28, 1958 (Assist. Insp. by ALOO)

Is "Company Confidential" information contained in this report? Yes No

(Specify page(s) and paragraph(s))

DISTRIBUTION:

Division of Inspection, Washington, D.C. (1) [illegible]

Division of Licensing & Regulation, Washington, D.C. (1) [illegible]

Approved by: *William W. Peary*
Leo Dubinski
Oak Ridge Operations Office
(Operations office)

March 19, 1959
(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.

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6. Inspection findings (and items of noncompliance) (continued) 1958

Item 8 of the license:

(1) The licensee has made substantial changes in the administrative organization and other key personnel from that originally approved in the Licensee's application of September 15, 1958. These changes have not been reported to the DLR. (See paragraph 13 of the report details).

(2) (a) Changes made by the Licensee in the separation sections of the pulse columns are not in conformance with the changes approved in the Licensee's application of May 16, 1958. (See paragraph 15 of the report details).

(b) Insulating material several inches thick is present around a six inch process vessel, forming a reflector. (See paragraph 15 of the report details).

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UNITED STATES ATOMIC ENERGY COMMISSION