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)

trace of the same

License No.

As Amended

SNM-154

Date

Expiration

Scope and Conditions

Scopes 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 UC2; or scrap material to nitrate or oxide, using the or screp material to mitrate or oxide, 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 blanding 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.

> Conditions: Authorized activity to be conducted at licensee's Jayhawk Works located between Pittsburg, Kansas, and Joplin, Missouri.

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. Fitten 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 analysed. 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 R. 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:

(b) Insulating material ceveral inc(continued on tenese sige) of a inch process vessel, forming a reflector. (see parefron

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TDivision of Licensing & Regulation a rece committee of washington, D.C. (1)

Leo Dubinski

Oak Ridge Operations Office

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the Contract 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.

RECUMMENDATIONS SHOULD BE SET FORTH IN A SEPARATE COVERING MEMORANDUM

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