

9610220205

100-100000-100000

1944-1945 27-11-13

Type of inspection: Initial

U. S. 822-9161 1991-1992

4. 10. 1948

1. To the Hon. the President of the Senate, Washington, D.C., for the purpose of presenting the same to the Senate.

244

5076-1010

Strong Traction Belts

4427

152530

1024-50

(Attachment 1)

Produced by the U.S. Environmental Protection Agency
to evaluate the number of (a) 700 pounds of
treating and inorganic compounds (b) 150
coloring agents (c) the number of units of
ornamental plants are containing no more
than 10% of the total.

High-carbon steels (not to be hardened)

the use of depleted uranium oxide by the licensee in the manufacture of ornamental items is well controlled. Procurement control is established. Records showing the receipts and inventories of the source materials are being maintained. Radiological surveys are being made and records of the survey results are being maintained. No waste is produced containing as much as 1% strontium by weight.

the only item of non-compliance observed or otherwise noted during the course of the inspection is noted below:

10 CFR 20.2201. Caution: Long labels and items

(S) (u) (c) (v) The metal storage containers, the storage cabinet, and the filing cabinet containing the source material stored were not posted, but

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PDR ADDCK 040*****
C PDR

17.6-01 - 10/14/1984

3. In "Confessions," Confessionals and Intermentary continued in the same
(Sg-10) page. Total 6 pages (10).

[illegible]

1987-1988

100-443887-1

OFFICE

GENERAL INFORMATION

On August 7, 1959, an initial compliance inspection was made of the facilities and operations of the use of uranium oxide as a coloring agent in the manufacture of ornamental glassware by the Foster Glass Company, Moundsville, West Virginia. The inspection was conducted by Jack T. Sutherland, Inspection Division, DRO, accompanied by Mr. Harvey Roberts, Industrial Hygienist of the Health Department, State of West Virginia.

10. The person interviewed and supplying information was Mr. A. E. Williams, Technical Director.

II. ORGANIZATION AND PROCEDURES

11. The Foster Glass Company is a stock company with one plant located at Moundsville, West Virginia. Glass tableware and giftware are produced. The plant at Moundsville has been in operation since 1875 and presently employs 100 people. Mr. R. H. Hammus is President.
12. Mr. A. E. Williams, Technical Director, and Mr. R. E. Horen, Factory Manager, have the responsibility for the use of the source material. The only experience with source material has been with the material produced under this license since October 1958.
13. Procurement control is established. Mr. Williams approves all orders for source material. The depleted U_3O_8 is bought through the Harshaw Chemical Company and is shipped directly to Moundsville from the Davison Chemical Company plant at Erwin, Tennessee. A record of the receipts and inventories is being maintained. This record shows the following receipts:

<u>Amount of U_3O_8</u>	<u>Date of Receipt</u>
100 lbs.	10-23-58
100 lbs.	1-13-59
100 lbs.	3-3-59
100 lbs.	3-20-59
100 lbs.	5-1-59
100 lbs.	6-4-59
100 lbs.	7-16-59
200 lbs.	8-25-59

The material is received in 5 gallon metal cans containing 100 pounds of U_3O_8 . The cans have polyethylene liners. At the time of the inspection 25 pounds were on hand and in storage.

14. The U_3O_8 is used for coloring certain glass products yellow. In the weighing room located at the west end of the plant building 7-10 pounds of U_3O_8 is weighed out. This material is thoroughly mixed for 5 minutes with 1000-1500 pounds of other glass ingredients in a Ransome Batch Mixer (dry mixer) located in the basement almost directly under the weighing room. The entire batch which contains less than 1% uranium by weight is gravity fed from the mixer to a batch cart with a capacity of 3000 pounds or two batches. Mr. Frank Smith, Batch Mixer Operator, and the two other employees who work in the weighing room

the furnace and production area. The furnace and production area is located in an elevated position.

15. The glass batch is melted in the furnace and is then poured into a mold. The mold is then cooled and the temperature is dropped to 1000° to 1000° F. The working temperature. The glass mix is then removed and used for product.

III. STORAGE

16. The depleted U_3O_8 is stored in the 5 gallon metal shipping cans in a locked cabinet in the weighing room. Mr. Frank Sypher, Batch Mixing Foreman, keeps the key to the storage cabinet. The door to the weighing room is also kept locked when the room is unattended.

IV. PERSONNEL MONITORING AND SURVEYS

17. A personnel monitoring program is not in effect. Due to the low level of external radiation it is felt that the use of personnel monitoring devices would be of no particular benefit.

18. A Universal Atomics Survey Meter, UAM-700, 0-50 mr/hr range, borrowed from the Homestead High School is on hand and is operable. Radiation surveys and contamination checks have been made and a record of the survey results is being maintained. This record shows no external radiation in the weighing room, in the mixing room, in the batch storage area, or in the furnace and production area in excess of 1 mr/hr.

V. POSTING

19. The three metal storage containers, the storage cabinet, and the weighing room where the 225 pounds of U_3O_8 on hand is stored were not posted at all. Temporary exemplary signs were given to Mr. Williams at the time of the inspection and these signs were used to post the storage cabinet and the weighing room at that time. Section 10 CFR 20.203, with emphasis on paragraphs (e)(2) and (f)(2), was pointed out to and discussed with Mr. Williams. He stated that more permanent signs of the type required will be procured and used.