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## Enforcement Action

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Contrary to the requirements of 10 CFR 20.301, disposal of licensed material made from July 31, 1973 through October 12, 1973, was in a manner not authorized. (Paragraph 4)

# Licensce Action on Previously Identified Enforcement Items

During the last inspection on November 17, 1970, the licensee was cited for the following:

Contrary to 10 CFR 20.201(b), air sample surveys were inadequate to determine concentrations of airborne uranium ore materials to which persons were exposed during drying and loading operations at the Hazelwood, Missouri facility:

The drying operation ceased shortly after the inspection during which the violation was noted. A licensee representative stated that air samples were not taken while loading the remainder of the ore since it contained approximately 40% water and created practically no dust.

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Unusual Occurrences

None.

Other Significant Findings il

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None.

Management Interview

Subsequent to the inspection, Mr. David P. Marcott, Executive Vice President and General Manager, Cotter Corporation, was contacted by telephone and given the results of the inspection. The apparent disposal of licensed source material in a manner not authorized was discussed as was the licensee's determination that the uranium content of residue ore was reduced to a non licensable percentage by the addition of quantities of soil.

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### 1. Persons Contacted

David P. Marcott, Executive Vice President, Cotter Corporation Phillip Feeney, Project Engineer, Ryckman, Edgerley, Tomlinson, and Associates, St. Louis, Missouri Warren Goff, Cotter Corporation, Nealth and Safety

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John Fontecchio, Plant Accounting, Cotter Corporation Bob Davis, B&K Construction Company, St. Louis, Missouri

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Mr. Kenneth Miller, State of Missouri Bureau of Radiological and Occupational ligalth was informed of the inspection on April 2, 1974. No representative of that agency was present during the inspection.

#### 2. <u>General Background Information</u>

----150 In early 1966, the Continental Mining and Milling Company, Chicago, Illinois, purchased from the AEC (Bid No. AT-(23-2)-52), ore residues which were stored at the St. Louis Airport. The material was moved from that site during 1966 to the 9200 Latty Avenue, Hazelwood, Missouri site. Continental Mining and Milling posses: ed License No. SMA-862 for this program. In January 1967, the Commercial Discount Corporation of Chicago, Illinois, took physical possession of the Continental Mining and Milling Company facilities and source material stockpile, License No. SMC-907 was issued to Commercial Discount Corporation on December 19, 1966, allowing possession of the residues, removal of moisture, and shipment to the Cotter Corporation facilities in Canon City, Colorado. In December 1969, the remaining source material was sold to Cotter Corporation who obtained License No. SUB-1022. The Commission's invitation to Bid No. AT-(23-2)-52 dated January 10, 1964, listed the following residues: 74,000 tons of Belgian Congo Pitchblend Raffinate containing about 113 tons of uranium; 32,500 tons of Colorado Raffinate containing about 48 tons of uranium; 1500 tons of barium sulfate cake (unleached) containing about, 22 tons, of 5 barium sulfate cake (leached) containing about 7 cons of uranium; and approximately 350 tons of miscellaneous residues containing about 2 tons of uranium.

RO:III inspected this licensed program on November 17, 1970. At that time, the licensee was in the process of drying and shipping residues to the Colorado facility. One violation, as described earlier in this report, was noted.

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Mr. David P. Marcott is Executive Vice President and General Manager of Cotter Corporation. The corporation moved its home office to P. O. Box 356, Colden, Golorado, in 1972. The licensee has an agreement with B&K "Construction Company, St. Louis, to maintain control over the site and to remove material in accordance with direction from the licensee. The licensee has also contracted a consultant firm Ryckman, Edgerley, Tomlinson, and Associates of St. Louis, to handle the health physics and decontamination of the Hazelwood site.

#### Program

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In August 1970, Cotter Corporation began drying and shipping the remaining residues from the St. Louis site, to their mill in Canon City, Colorado, at the rate of about 400 dry tons of material per day. This operation which was performed for Cotter by Bak Construction Company continued until about November 1970 when problems with the dryer, used to reduce the moisture contant al " inspec of the ore caused a halt, in activities.

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According to reports, records, and interviews with licensee representatives all of the remaining residues were shipped during the August to November period with the exception of approximately 10,000 tons of Golorado raffinate and 8700 tons of leached barium sulfate.

B&K Construction Company representative states that his original instructions from Corter Corporation Were to moad and ship the piles of ore residue according to location and color. He said : . . . . . the residues were distinctly different in color and the yellowish Congo raffinate plus the Colorado raffinate (reddish) were shipped The leached barium sulface (whitish) as instructed to Canon City. . W **)** . . . . 3.1 -1 B . was not \_hipped. D: .4111 12 1 1 25.5

1. 230 According to licensee representatives, the site remained unoccupied until mid 1973 when the remaining Colorado raffinate was shipped to Canon City without drying. The only residue then remaining at the site was the 8700 tons of leached barium sulface. Records 111 maintained by Cotter Corporation showed that this material contained , at from 0.05% to 0.1% or approximately 7 tons of uranium as U3 0g. Licensee representatives stated, and records of invoices paid to a second state of the B6K Construction Company show, that this materials along with 1 3 approximately 38,000 to 39,000 tons of soil removed from the top C.B. ...

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A B&K Construction Company representative said that, as directed by Cotter Corporation, the barium sulface cake material was spread over a considerable portion of the site and then removed along with the top soil. He added that he thought that this was done to reduce the weight, as the cake material was very heavy and he did not want to fill a truck with only this material. s. 1

This material was hauled to the land full area and used as cover for part of the several hundred truckloads of garbage and refuse. that are shipped to the land fill area, site every week. The licensee estimates that the barium sulface is probably buried under 100 feet of garbage at this time. The trucks were hosed out after hauling this material. · ( · p)

# Facilities and Equipment

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21 The plot of ground known as 9200 Latty Avenue, Hazelwood, Missouri consists of a 3.5 acre plot on which four buildings are located and a 7.5 acre plot which was used for the storage of the ore residues.' The larger plot is leased from the Norfolk and Western Railway Company which also has a spur line adjacent to the licensee's facility. One building, used formerly as the office and living quarters, is completely boarded up. The other three are compty and . . 110 11471 in a bad state of repair. **7**.

All the loading, and drying equipment was said to have been hosed down after completion of the operation. It was either in storage at B6K Construction Company's yard, St. Ann, Missouri or had been sent to Canon City Colorado. The residue piles appeared to have been removed and the ground returned to at or near its original level. Radioactive Material signs were noted to be in place along the fence line but the gates were open and some of the fence line シーン おおしょうやい is without a had been knocked down

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the treatming of the treatming land surface to determine if it read less than 0.6 mr/hr at the surface as measured by a thin (1.4 mg/cm<sup>2</sup>) end window CM instrumant. A representative of Ryckman, Edgerley, Jomlinson, and Associates stated that if the survey showed 0.6 mr/hr or less, no further removal of soil was done: If it was higher, soil was removed until the radiation was 0.6 mr/hr or less. He added that B&K Construction removed the top 12-18 inches of the site and in most cases, backfilled to the original level before any surveys were made. Alle said only one small 10 foot by 10 foot area was found above 0.6 mr/hr and that the rest of the arca averaged 1 less than 0.1 mr/hr. . . . . 6 ي ا . . . . .

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11101 ----VIOLATION CUDING DATA HOUK SHLLT (See PI 1200/13, Attachment E for coding instructions) Sall - 1012 -Facility License No. /Docket Report No. Inspection Date Inspector The coding data for violations identified during the above inspection are as follows: " (NOTE: Code each violation, listing in the same order as shown on th enclosure to the letter to the licensee.) يعار القيسي . ÷ È, .... Requirement's Procedures 2.0 Code Cause Code Code 101 IG1 SV1 14 G-1 3 Ł 11. 9. 10. For each inspection which identifies violations, Instructions: forward this Work Sheet, to the Administrative Officer when the inspection documentation is submitted for typing.

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