NRC FORM 591M PART 3
(10-2003)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information
SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION

1. LICENSEE	2. NRC/REGIONAL OFFICE
Cabot Supermetals, Inc. , Boyertown, PA REPORT NUMBER(S) 2004-001	**U.S. Nuclear Regulatory Commission** **Region I, 475 Allendale Road** **King of Prussia, Pennsylvania 19406-1415**

3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION
040-06940	SMB-920	4/20-21/2004

6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS
87125	03.01through03.07

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTACT	4. TELEPHONE NUMBER
11700	5	Timothy Knapp, RSO	(610) 367-1500

[X] Main Office Inspection — Next Inspection Date: April 2009

[ ] Field Office

[ ] Temporary Job Site

PROGRAM SCOPE

The licensee processes ore for tantalum and niobium extraction. The majority of the ore is source material, averaging 0.16% U and 0.06% Th. Approximately 20,000 to 24,000 pounds of ore are processed in a week up to a maximum of 30,000 pounds per week. The ore is received in drums ,transferred to mills, separated according to particle size, and then treated with hydrofluoric acid. The source material (U and Th) does not dissolve in the acid and becomes waste material. The waste material is shipped to a uranium mill in Utah to be used as feed stock. Additionally, small amounts of source material are found in the waste water treatment system and are disposed of, after precipitation, in a landfill. The U and Th concentration in the precipitate must be less than 10 pCi/g for disposal.

Three violations from the previous inspection were closed during this inspection. Discussions were held with the licensee regarding the location of the boiler house perimeter air sampler. The air sampler was placed at its current location near the perimeter fence because this was the location closest to the fence where power for the air sampler was available. The licensee stated that now power was available at the perimeter fence, and the boiler house perimeter air sampler would be relocated to the perimeter fence.

No violations or safety concerns were identified.