

MATERIALS LICENSE

Amendment No. 9

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and the applicable parts of Title 10, Code of Federal Regulations, Chapter I, Parts 19, 20, 30, 31, 32, 33, 34, 35, 36, 39, 40, 51, 70, and 71, and in reliance on statements and representations heretofore made by the licensee, a licensee is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		
1. Cabot Corporation		3. License Number SMC-1562
2. County Line Road Boyertown, PA 19512		4. Expiration Date September 30, 2009
		5. Docket or Reference 40-9027*
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License
A. Natural uranium and thorium	A. Any	A. 100 tons as elemental uranium and thorium

9. Authorized Use: In accordance with the statements, representations, and conditions specified in the licensee's application dated September 15, 1977, and supplements dated June 18, 1982, and May 13, 1987, the following use is authorized:

- A. Possession only of contaminated material in the slag disposal area at the Reading, Pennsylvania, site. Further waste disposal at this site is specifically prohibited.

CONDITIONS

- 10. Authorized Place of Use: The licensee's facility at Tulpehocken Street, Reading, Pennsylvania.
- 11. Deleted.
- 12. The licensee will prepare and retain waste manifests for the waste generated from the decommissioning of the Reading facility for the purpose of final disposal. The licensee is authorized to transfer these wastes in accordance with 10 CFR §40.51(b)(5) for storage at the Cabot facility in Boyertown, Pennsylvania, under license SMB-920.
- 13. Access to the site will be controlled during decontamination and decommissioning activities; access to areas where radioactive waste is stored will be controlled at all times.
- 14. Deleted.
- 15. The RSO for this license is Timothy M. Knapp. The minimal technical qualifications for the position of RSO shall be a bachelor's degree in the biological or physical sciences, completion of a basic radiation safety course, and 2 years of experience in the handling of radioactive materials.

*Prior to 12/93, reference Docket No. 40-6940.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number SMC-1562

Docket or Reference
Number 40-9027

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16. Deleted.
17. Deleted.
18. Release of equipment, facilities, or packages from the plant site or the uncontrolled areas onsite shall be in accordance with the attached "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material," dated April 1993.
19. The licensee shall conduct at least quarterly at the Reading slag dump a monitoring program that consists of the following:
- Inspection for erosion.
 - Sampling groundwater at the base of the embankment and analyzing for, at a minimum, gross alpha and conductivity.
 - Measurement of direct radiation levels at 1 meter above the ground at all boundaries of the dump site.
- The licensee shall maintain a record of all monitoring results obtained in accordance with this license condition.
20. At the end of plant life, the licensee shall decontaminate the facilities and grounds so that they can be released for unrestricted use.
21. The Reading site main processing building and surrounding areas, as delineated in Figure 1.4 on page 6 of the "Final Decommissioning Project Report for the Main Processing Building and Surrounding Area, Reading, Pennsylvania," dated May 1995 and amended by letter dated June 2, 1995, is released for unrestricted use.
22. The licensee is authorized to decommission the Reading site in accordance with their Decommissioning Plan (ML0706230159) as supplemented (ML06230164, ML062640081, and ML062210261).

COMMISSION

FOR THE U.S. NUCLEAR REGULATORY

/RA/

Dated: 10/24/2007

Keith I. McConnell, Deputy Director
Decommissioning and Uranium Recovery
Licensing Directorate
Division of Waste Management
and Environmental Protection
Office of Federal and State Materials
and Environmental Management Programs