

**MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license 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.

<p style="text-align: center;">Licensee</p> <p>1. <b>Cabot Corporation</b></p> <p>2. <b>County Line Road Boyertown, PA 19512</b></p>	<p>3. License number <b>SMB-920 RENEWAL</b></p> <p>4. Expiration date <b>December 31, 2001</b></p> <p>5. Docket or Reference No <b>40-6940</b></p>
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| <p>6. Byproduct, source, and/or special nuclear material</p> <p style="text-align: center;"><b>Natural uranium and thorium</b></p> | <p>7. Chemical and/or physical form</p> <p style="text-align: center;"><b>Any</b></p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p style="text-align: center;"><b>400 tons as elemental uranium and thorium</b></p> |
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9. Authorized place of use: The licensee's facility at County Line Road, Boyertown, Pennsylvania.
  10. Authorized use: Receipt, possession, and processing at the Boyertown, Pennsylvania, facility in accordance with the statements, representations, and conditions specified in the licensee's revised application dated March 16, 1994; and supplements dated May 24, August 17, and October 31, 1995; February 26, March 13, and April 10, and November 26, 1996.
  11. The licensee shall document all ALARA Committee's recommendations for achieving ALARA in radiation protection, proposed in each meeting. A copy of the recommendations shall be provided to the General Manager.
  12. The licensee shall revise attachments B, C and I to the renewal application dated March 16, 1994, to reflect the current regulations at 10 CFR Part 20, which became effective on January 1, 1994. The revision should be completed within 60 days of the issuance of this renewed license.
  13. Release of equipment, facilities, or packages to the unrestricted area or to uncontrolled areas onsite shall be in accordance with the "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.

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SUPPLEMENTARY SHEET

License Number

SMB-920 RENEWAL

Docket or Reference Number

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14. The licensee shall collect the following samples at the Boyertown site and analyze for radioactivity at least quarterly:
- a. Composite samples from a continuously collected sample of the effluent at Outfall 001 when effluent is discharged.
  - b. Upstream and downstream water samples (relative to Outfall 001) of West Swamp Creek.
  - c. Groundwater samples from Monitoring Wells 1a, 2, 3, and 4 identified in Figure 4.1 of NUREG-1027.

If the concentration of any radionuclide exceeds 1 percent of the value given in 10 CFR Part 20, Appendix B, Table II, an investigation shall be made to determine the possible cause and appropriate action shall be taken.

If the concentration of a radionuclide exceeds 10 percent of the value in Table II, the licensee shall report the incident to the Administrator, Region I, U.S. Nuclear Regulatory Commission, within 30 days after the analysis is received by the licensee.

- d. Sediment samples from upstream and downstream locations in West Swamp Creek and immediately downstream of Outfall 001. If gross alpha concentrations exceed 100 pCi/g, an investigation shall be made to determine the cause.

The licensee shall maintain a record of all monitoring results obtained in accordance with this license condition.

FOR THE NUCLEAR REGULATORY COMMISSION

*Michael F. Weber*

Date: December 24, 1996

By: Michael F. Weber  
 Division of Fuel Cycle Safety  
 and Safeguards  
 Washington, DC 20555