

September 4, 2001

Ms. Elaine Davies, Acting Director
Office of Emergency and Remediation Response
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, DC 20460

Dear Ms. Davies:

This letter is to inform the U.S. Environmental Protection Agency (EPA) that the U.S. Nuclear Regulatory Commission (NRC) is authorizing release of land from NRC license for unrestricted use at the Cabot Corporation, Inc (Cabot) site near Revere, Pennsylvania and removal of the Revere site from License SMC-1562 and the Site Decommissioning Management Plan (SDMP).

The staff is providing this information to EPA in accordance with NRC policy contained in the "Action Plan to Ensure Timely Cleanup of Site Decommissioning Management Plan Sites" (57 FR 13389), which states that NRC will inform EPA about specific decommissioning actions at SDMP sites.

In 1969, the Atomic Energy Commission issued a license to Kawecki Chemical Company - Penn Rare Division (Cabot's predecessor), which authorized the storage of source materials at the Revere, Pennsylvania, site. The license was amended in 1970, authorizing the licensee (then known as Kawecki Beryllium Industries) to process ore concentrates containing natural thorium and uranium in the extraction of columbium and tantalum metals. Processing of source-material-bearing ores ceased in 1978, and the license was subsequently amended to authorize storage-only at the Revere site in 1983. Cabot became the licensee of record in 1987. The Cabot Revere site was placed on the SDMP list in 1990.

Cabot has supplied, and NRC has reviewed, site characterization and dose assessment information. NRC has also coordinated with the Pennsylvania Department of Environmental Protection (PADEP), including conducting joint site visits and inspections. A dose assessment, which incorporates site-specific data recently supplied by Cabot and reviewed by NRC staff, demonstrates that the unrestricted release criteria in 10 CFR 20.1402 have been met. A draft environmental assessment, along with a copy of the draft safety evaluation report were also provided to PADEP in March 2001, for its review and comment. PADEP agrees with NRC's determination. Based on a review of these assessments, both NRC and PADEP have concluded that the Revere site meets NRC's regulatory requirements for unrestricted use, and the site is being removed from License SMC-1562, and the SDMP list.

E. Davies

-2-

The project manager for the Cabot Revere site is Theodore B. Smith. If you have any questions on this matter, please contact him at (301) 415-6721.

Sincerely,

/RA/

Larry W. Camper, Chief
Decommissioning Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

Docket No. 040-09027
License No. SMC-1562

cc:
Mr. David J. Allard,
Pennsylvania Department of Environmental Protection
Mr. Timothy Knapp,
Cabot Corporation, Inc.

September 4, 2001

Mr. David J. Allard, CHP
Director, Bureau of Radiation Protection
Pennsylvania Department of Environmental Protection
Rachel Carson State Office Building
P.O. Box 2063
Harrisburg, PA 17105-2063

Dear Mr. Allard:

This letter is to inform the Pennsylvania Department of Environmental Protection (PADEP) that the U.S. Nuclear Regulatory Commission (NRC) is authorizing release of land from NRC license for unrestricted use at the Cabot Corporation, Inc (Cabot) site near Revere, Pennsylvania and removal of the Revere site from License SMC-1562 and the Site Decommissioning Management Plan (SDMP).

In March, 2001, Cabot submitted its revised decommissioning plan (DP) and radiological assessment (RA), in response to additional information requests from both NRC and PADEP. The revised DP and RA incorporated site-specific data that supports a dose assessment which meets the unrestricted release criteria in 10 CFR 20.1402. On April 23, 2001 you participated in the joint site visit and inspection, and in an April 26, 2001 letter and subsequent telephone conversation agreed that the site meets NRC regulatory requirements for radiological unrestricted release.

Based on staff's independent review of the dose assessment, NRC concludes that the Revere site is suitable for release for unrestricted use, and is being removed from License SMC-1562, and the SDMP.

D. Allard

-2-

The project manager for the Cabot Revere site is Theodore B. Smith. If you have any questions on this matter, please contact him at (301) 415-6721.

Sincerely,

/RA/

Larry W. Camper, Chief
Decommissioning Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

Docket No. 040-09027
License No. SMC-1562

cc:

Mr. Robert Maiers, PE
Pennsylvania Department of Environmental Protection
Ms. Ivna Shanbaky,
Pennsylvania Department of Environmental Protection
Ms. Elaine Davies,
U.S. Environmental Protection Agency

September 4, 2001

Mr. Timothy Knapp
Radiation Safety Officer
Cabot Performance Materials
Cabot Corporation
P.O. Box 1608
County Line Road
Boyertown, Pennsylvania 19512-1608

Dear Mr. Knapp:

This letter is to inform the Cabot Corporation (Cabot) that the U.S. Nuclear Regulatory Commission (NRC) is authorizing release of land for unrestricted use at the Cabot site near Revere, Pennsylvania.

Cabot submitted dose assessments, in November 1997, and March 2001, to demonstrate that remediation at the site was not necessary, and that the calculated dose was below the limits in 10 CFR 20.1402 for unrestricted use of the site. Based on staff's independent review of Cabot's dose assessment, NRC concludes that the site is suitable for release for unrestricted use. Therefore, the Cabot Decommissioning Plan for the Revere site is approved, the site is removed from License SMC-1562, and the Site Decommissioning Management Plan. A copy of the amended license, with the Revere site removed, is enclosed.

The project manager for the Cabot Revere site is Theodore B. Smith. If you have any questions on this matter, please contact him at (301) 415-6721.

Sincerely,

/RA/

Larry W. Camper, Chief
Decommissioning Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

Docket No. 040-09027
License No. SMC-1562

cc:
Robert Maiers, PADEP
Ivna Shanbaky, PADEP

Enclosure:
Cabot License SMC-1562, Amendment 8

MATERIALS LICENSE

Amendment No. 8

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, 2006
		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. Remediation of the slag disposal area is not authorized.
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.

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

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number SMC-1562

Docket or Reference
Number 40-9027

Amendment No. 8

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. The licensee's ALARA review committee shall meet at least annually to review and make recommendations concerning radiation exposure, effluents, and contamination survey data. The committee membership shall include, as a minimum, the Radiation Safety Officer (RSO), and a representative of plant production supervision. The findings of this committee shall be documented in a report provided to the plant manager and higher levels of management as appropriate.
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.
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.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number SMC-1562

Docket or Reference
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Amendment No. 8

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.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Dated: 9/5/01

/RA/

Larry W. Camper, Chief
Decommissioning Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards



MEMORANDUM TO: Michael T. Lesar, Chief
Rules and Directives Branch
Division of Administrative Services
Office of Administration

FROM: Larry W. Camper, Chief
Decommissioning Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

SUBJECT: REMOVAL OF THE CABOT CORPORATION, INC., SITE IN REVERE,
PENNSYLVANIA FROM THE CABOT LICENSE AND THE SITE
DECOMMISSIONING MANAGEMENT PLAN

Attached please find one signed original of the subject Federal Register notice for your transmittal to the Office of the Federal Register, for publication. Also, attached are five copies of the signed notice and a 3.5" diskette with the notice in WordPerfect.

Docket No.: 040-9027
License No.: SMC-1562

Enclosures:

1. One signed original FRN
2. Five copies of signed FRN
3. 3.5" diskette of FRN

CONTACT: Theodore Smith, NMSS/DWM
301-415-6721

[7590-01-P]

U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NO. 40-9027

LICENSE NO. SMC-1562

REMOVAL OF THE CABOT CORPORATION, INC.,

SITE IN REVERE, PENNSYLVANIA FROM THE CABOT LICENSE

AND THE SITE DECOMMISSIONING MANAGEMENT PLAN

AGENCY: U.S. Nuclear Regulatory Commission

ACTION: Notice of license amendment

This notice is to inform the public that the United States Nuclear Regulatory Commission (the Commission) is amending Source Material License SMC-1562 issued to Cabot Corporation, Inc. (Cabot, formerly Kaweck Chemical Company - Penn Rare Division, and Kaweck Berylco Industries) to remove the Revere, Pennsylvania, site. Cabot processed pyrochlore-bearing ores to extract columbium and tantalum metals for use in high-strength alloys and electronic component manufacture. The ore processing generated waste slag contaminated with natural uranium and thorium. The Commission is releasing the Cabot site in Revere, Pennsylvania, for unrestricted use, is removing the site from the Site Decommissioning Management Plan (SDMP), and is removing the site from License SMC-1562. In 1990, the Commission developed the SDMP program for sites that warranted special attention to ensure timely decommissioning. This list included the Cabot Revere site. Cabot has supplied, and the

Commission has reviewed, site characterization and dose assessment information. Based on the Commission's review, the Commission concludes that the unrestricted release dose criteria in 10 CFR 20.1402 have been met. Therefore the Commission concludes that the site is suitable for release for unrestricted use, and the Revere site is being removed from the SDMP and License SMC-1562.

This termination will be reopened only if additional contamination is found indicating a significant threat to the health and safety of the public and the environment, or if the licensee had provided false information.

Dated at Rockville, Maryland, this day of September, 2001.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

Larry W. Camper, Chief
Decommissioning Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

- 1) Letter to Larry Reed, EPA
- 2) Letter to David Allard, PADEP
- 3) Letter to Timothy Knapp, Cabot w/ license amendment attached
- 4) Letter to Michael T. Lesar, w/ FRN to remove SDMP attached

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*SEE PREVIOUS CONCURRENCE

OFC	DCB		DCB		DCB		DCB	
NAME	TSmith		CBurkhalter		SMoore		LCamper	
DATE	8/29/01		9/ /01		9/ 4/01		9/4/01	

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