

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, 36, 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. ABB Prospects, Inc.</p> <p>2. 501 Merritt 7</p> <p>Norwalk, Connecticut 06856-5308</p>	<p>In accordance with the letter dated October 15, 2003</p> <p>3. License number 06-00217-06 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date April 30, 2011</p> <hr/> <p>5. Docket No. 030-03754 Reference No.</p>
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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. Any byproduct material with atomic numbers 1 through 83	A. Irradiated and/or contaminated debris, inspection and test equipment, test samples, calibration standards, or residues	A. 50 curies
B. Any byproduct material with atomic numbers 84 through 103	B. Irradiated and/or contaminated debris, inspection and test equipment, test samples, calibration standards, or residues	B. 3 millicuries per nuclide and 30 millicuries total
C. Source material	C. Irradiated and/or contaminated debris, inspection and test equipment, test samples, calibration standards, or residues	C. 75 kilograms
D. Plutonium	D. Irradiated and/or contaminated debris, inspection and test equipment, test samples, calibration standards, or residues	D. 1 milligram

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|---|---|--|
| 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 |
| E. Uranium 235 | E. Irradiated and/or contaminated debris, inspection and test equipment, test samples, calibration standards, or residues | E. 325 grams, including less than 5 kilograms UF ₆ |

9. Authorized use:

- A. through E. Possession and use for those activities directly or indirectly related to decontamination and dismantlement of buildings, excavation and removal of waste lines and underground utilities, and remediation of soils.

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at 2000 Day Hill Road, Windsor, Connecticut.
11. A. Licensed material shall be used by, or under the supervision of, Robert C. Woodard.
B. The Radiation Safety Officer for this license is Robert C. Woodard.
12. Licensed material shall not be used in or on human beings.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
B. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
C. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
D. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.

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- E. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- G. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
16. The license amendment request entitled "Decommissioning Plan, Building Complexes 2, 5, and 17", submitted by letter dated December 31, 2001 and amended by letters dated March 8, 2002 and August 9, 2002 is hereby approved without sections 5 and 7 (Dose Modeling and ALARA Analysis, respectively). This approval authorizes decontamination and dismantlement of systems and components inside the buildings of Building Complexes 2, 5, and 17 and deconstruction of the buildings down to the slabs/foundations only. No work may be performed on the slabs/foundations or soil without prior approval by the U.S. Nuclear Regulatory Commission.
17. The licensee is authorized, as described in Section 10 of the license application, to use the surface contamination levels of Table 1 of NRC Regulatory Guide 1.86 "Termination of Operating Licenses for Nuclear Reactors", June 1974 for the release of structures, equipment and components for unrestricted use. No volumetrically contaminated material may be released from the site for unrestricted use.
18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
19. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including

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any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. License Renewal Application dated January 19, 2001; ML010290153
- B. Letter: Response to RAI dated April 5, 2001; ML011070089
- C. Letter: License Amendment Request dated August 30, 2001 with attachments; ML02500403
- D. Letter: Response to RAI dated October 16, 2001 with attachments; ML012960111
- E. Letter: Response to RAI dated November 1, 2001 with attachments; ML013110081
- F. Letter: Amendment Request dated July 18, 2002 with attachment; ML022320343
- G. Letter: Amendment Req. DP for Buildings 2, 5, 17 dated December 31, 2001; ML020170139
- H. Letter: DP Plan Change dated March 8, 2002; ML020700602
- I. Letter: Response to RAI dated August 9, 2002; ML022400423
- J. Letter: Amendment Request - DP dated October 15, 2003, with attachments; ML040300149
- K. Letter: Response to RAI dated March 26, 2004; ML041200209

For the U.S. Nuclear Regulatory Commission

Date June 1, 2004

By

Original signed by Marie Miller

Marie Miller
Decommissioning Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406