Enclosure I

License Application
Change Pages

ABB INC.

COMBUSTION ENGINEERING SITE
Windsor, CT.

Application for Amendment
US NRC License Number 06-00217-06
Docket Number 030-03754

January 25, 2008

NRC License No. 06-00217-06

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1.0 License Information

This is an application for amendment of License Number 06-00217-06. The intent of this amendment is to revise and update the current license application for the Combustion Engineering (CE) Windsor Site in order to reflect the contemporary status of the CE Windsor Site.

2.0 Applicant's Name and Address

ABB Inc.
501 Merritt 7
Norwalk, CT 06856-5308

3.0 Address Where Licensed Material Will Be Used or Possessed

The location of use or possession of material associated with this license is:

2000 Day Hill Road
Windsor, CT 06095-0500

4.0 Person to be contacted About the Application (Mail Address)

Attn: Mr. John F. Conant
Sr. Project Manager
ABB Environmental Control & Support
CEP 880-1911
2000 Day Hill Road
Windsor, CT 06095-0500

Telephone: (860) 285-5002
Facsimile: (860) 285-5832

5.0 Radioactive Materials Possession Limits

	Byproduct, source, and/or special nuclear material	Chemical and/or physical form	Maximum amount that licensee may possess at any one time under this license
A.	Any byproduct material with Atomic Numbers 1 through 83	Irradiated and/or contaminated debris, inspection and test equipment, test samples, calibration standards, or residues	0.5 curies
B.	Any byproduct material with Atomic Numbers 84 through 103	Irradiated and/or contaminated debris, inspection and test equipment, test samples, calibration standards, or residues	Not to exceed 3 millicuries per nuclide and 30 millicuries total
C.	Source material	Irradiated and/or contaminated debris, inspection and test equipment, test samples, calibration standards, or residues	1 kilogram
D.	Uranium-235	Irradiated and/or contaminated debris, inspection and test equipment, test samples, calibration standards, or residues	325 grams

6.0 Purpose of Use of Licensed Material

Possession and use for those activities directly or indirectly related to decontamination, and decommissioning of buildings, systems, facilities and property at the CE Windsor Site. The licensee may under this license perform decontamination, monitoring, packaging, storage, and shipment of residual waste and receipt of licensed calibration standards without prior NRC approval. The licensee may perform decontamination and decommissioning activities as described in the CE Windsor Site Decommissioning Plan.

7.8.6 Radiation Safety Staff

A health physics professional with knowledge and experience sufficient to develop, implement, and audit a Radiation Protection Program at a work site may be assigned as a Radiation Safety Engineer, Radiological Engineer, or similar title. Individuals assigned to such work must be qualified to perform the specific tasks that they will be assigned to perform. Due to the individualized nature of such assignments, *a priori* training and qualification criteria cannot be established. Generally, individuals assigned to such positions will have a related degree, or equivalent, and several years of related experience. The RSO shall make the final determination on an individual's qualification for such assignments and will be responsible for providing documentation for such determination.

7.8.7 Prenatal Radiation Exposure

Women participating in the Radiation Worker training program, to be occupationally exposed, will be provided additional information regarding dose to the Embryo/Fetus. This program will be based on NRC Regulatory Guide 8.13.

8.0 Records

Records pertaining to the Radiation Protection Program, unusual occurrences, inspections, audits, ALARA, personnel exposures, radiation and contamination surveys, effluent monitoring, Environmental Monitoring Program, calibrations, and decommissioning are retained to demonstrate compliance with the conditions of the license and with applicable Federal, State and local regulations. Such records are retained, as a minimum, for the times specified in governing regulations.

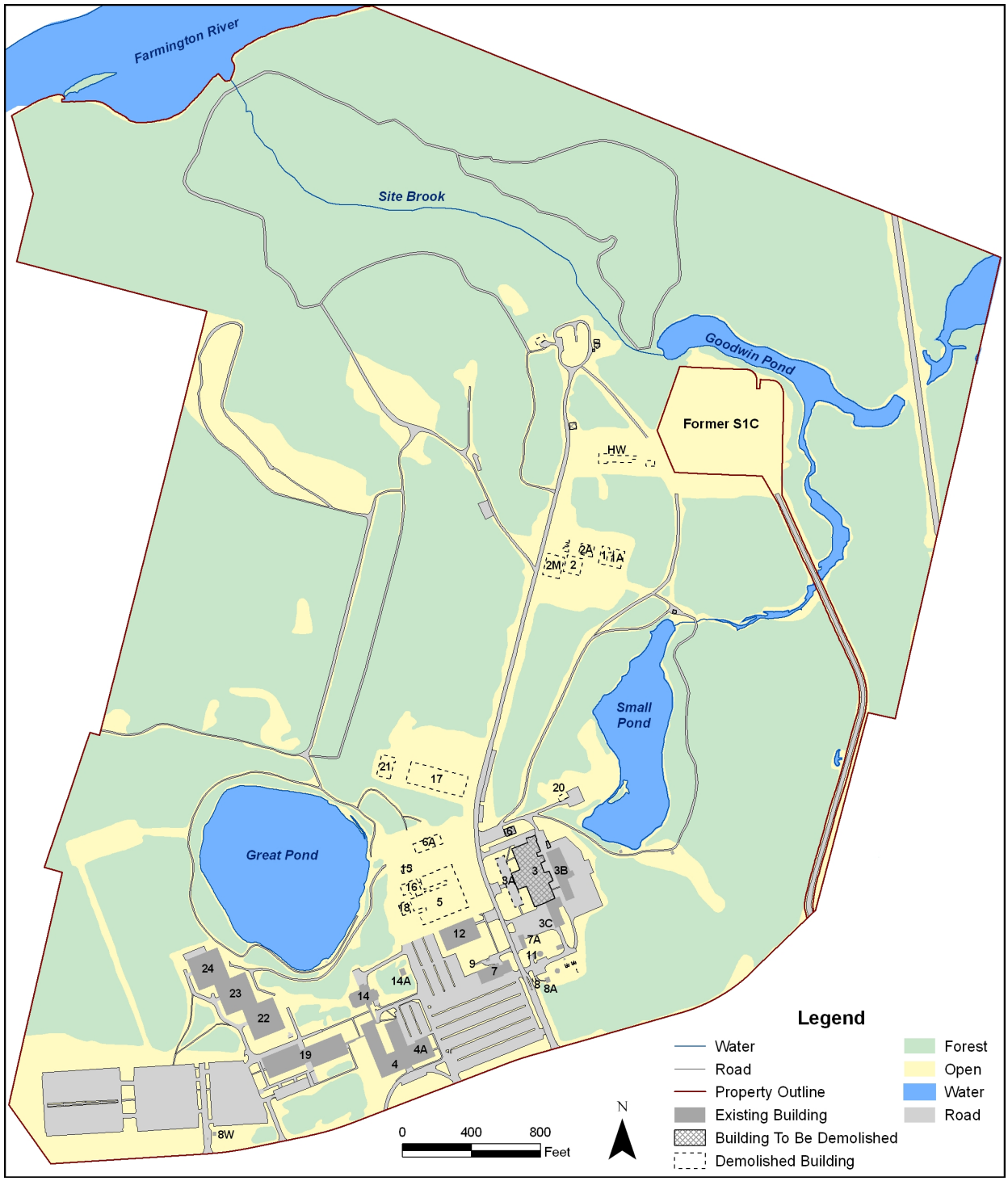
9.0 Facilities and Equipment

The CE Windsor Site is an approximately 600-acre tract of land located in the town of Windsor, Connecticut. The Farmington River flows along the northern boundary of the site. The land adjacent to the North, East, South and West boundaries of the site consists of heavily wooded sections and open fields which have been cultivated for the production of broad leaf tobacco and other farm products. The land area within five miles of the site is somewhat rural, with rolling farmland interspersed among woodland tracts. In recent years, the area has become a bedroom community suburb of the greater Hartford area, with some light industry. Figure 9-1 shows the buildings and facilities presently located on the CE Windsor Site.

Buildings originally impacted during site commercial operations have been remediated. These buildings, slabs, foundations (to four feet below grade), and all underground piping and utility systems have been removed under the Plan. Final Status Surveys submitted to the NRC demonstrate compliance for unrestricted release in accordance with 10CFR20.1402. The previously identified FUSRAP areas, Buildings 3 and 6 plus remaining impacted areas, are described in the CE Windsor Site Decommissioning Plan Revision 1. These remaining buildings and areas will also be remediated as part of license termination.

Figure 9-1

CE Windsor Site Plan



10.3 Radiation Monitoring Instrumentation

An adequate number of instruments of sufficient accuracy and sensitivity shall be available to ensure compliance with the monitoring requirements of this license and 10 CFR 20. Instruments shall be approved by the RSO, who shall assure that a current list of available calibrated instruments is maintained. Additions, deletions, or substitutions may occur at the discretion of the RSO.

10.3.1 Calibration of Instruments

Hand-held portable radiation survey instruments utilized for radiation protection purposes shall be calibrated at least annually or following instrument maintenance, repair, or adjustment likely to affect the primary calibration. Calibration shall be performed according to written procedures, instructions or other guidance documents reviewed and approved by the RSO and shall be performed using standard sources traceable to NIST or by a commercial calibration service. Check sources shall be used daily or prior to use. An instrument will be removed from service if the source check is not within ± 20 percent of the initial post-calibration value.

Laboratory instruments used for radioactivity measurements are evaluated daily or prior to use. Maintenance and repair shall be performed if the source or background checks are not within prescribed ranges. Calibration, repair and efficiency determination shall be performed according to written procedures, instructions or other guidance documents reviewed and approved by the RSO, and shall be performed using standard sources traceable to NIST or by a commercial calibration service authorized by the NRC or Agreement State to provide radiation detection instrumentation services.

The model survey meter calibration program published in Appendix M to NUREG-1556, Vo. 7, ‘ Program-Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope,’ dated December 1999 will be implemented. Gamma spectrometry system(s) measurements may be performed using High Purity Germanium (HPGe) detectors that have been specifically characterized by the vendor to enable a sourceless efficiency calibration methodology. When this method is selected, the vendor’s computer software performs a mathematical efficiency calibration without the use of sources.

11.0 Waste Management

11.1 Waste Collection

Collection of radioactive material deemed to be waste shall be accomplished with written procedures approved by the RSO.