



February 26, 2010

License No. 06-00217-06

Docket No. 030-03754

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Mr. John Nicholson  
U.S. Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

Subject: **Decommissioning Plan Revision 2**

Dear Mr. Nicholson:

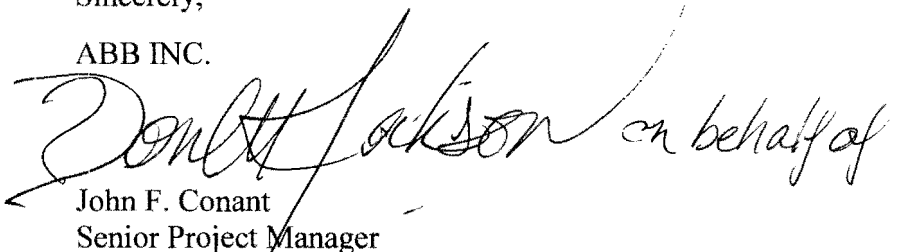
ABB Inc. (ABB) requests approval of the enclosed CE Windsor Site Decommissioning Plan (DP) Revision 2 and amendment of License No. 06-00217-06 to incorporate DP Revision 2 for the CE Windsor Site at 2000 Day Hill Road in Windsor, Connecticut.. Revision 1 to the CE Windsor Site DP added the previously identified FUSRAP areas and updated the DP with respect to the completed decommissioning work. Revision 2 provides information for decommissioning of the brook and debris piles as well as additional site-specific Derived Concentration Guideline Levels (DCGLs) for thorium and radium.

Enclosed is a summary of Changes as Attachment 1 that describes the proposed modifications to the License Application and DP Revision 2. Change pages to the currently approved License Application are provided in Attachment 2. A complete version of the CE Windsor Site DP Revision 2 is included as Attachment 3. An Applicant's Environmental Information Report (EIR) is provided as Attachment 4 to the NRC in support of its review of DP Revision 2. An Addendum to the original Derivation of the Site-Specific Soil DCGLs report that addresses thorium and radium is provided as Attachment 5.

If there are any comments or questions concerning the enclosed documents, please do not hesitate to contact the Radiation Safety Officer, Heath Downey, at (207) 939-5560, or me at (860) 285-5002, or by E-mail at [john.conant@us.abb.com](mailto:john.conant@us.abb.com).

Sincerely,

ABB INC.

  
John F. Conant  
Senior Project Manager

Enclosures

xc: Charles Petrillo (Town of Windsor)  
Edward Wilds (CTDEP)

**FULL COST RECOVERY ACTION**

**TAC NO.** \_\_\_\_\_

ABB Inc.

**Attachment 1**

**Summary of Changes**

## **Summary of Changes**

This License Amendment Request includes revisions to the CE Windsor Site Decommissioning Plan. The changes include the following:

### Attachment 2 - License Amendment Application Change Pages

Title Page updated.

List of Effective Pages updated.

- Page 14, Section 10.1: Revised to reflect the DCGLs developed and presented in the Development of Building DCGLs (approved under Decommissioning Plan Revision 1) included here for completeness and the proposed Addendum to the Derivation of the Site-Specific Soil DCGLs report.

### Attachment 3 - CE Windsor Site Decommissioning Plan Revision 2

The Decommissioning Plan Revision 2 is submitted in its entirety and replaces Revision 1 dated December 2008. The Site DP has been revised to include the brook and debris area. In addition, changes have been made to include additional site-specific soil DCGLs (Attachment 5).

Title Page updated.

Table of Contents updated.

List of Effective Pages updated.

References updated.

- |           |   |
|-----------|---|
| Section 1 | This section is revised to include the brook and debris piles as well as additional soil DCGLs.   |
| Section 2 | Updated to reflect recent license amendments  |
| Section 3 | No significant changes.   |
| Section 4 | This section has been revised to include a detailed summary of radiological conditions along with figures identifying areas that exceed DCGLs for the brook and debris piles. |

Section 5	This section is revised to include the proposed additional site-specific soil DCGLs.
Section 6	No significant changes.
Section 7	No significant changes.
Section 8	This section is revised to include the planned decommissioning activities for the brook and debris piles.
Section 9	No significant changes.
Section 10	No significant changes.
Section 11	No significant changes.
Section 12	No significant changes.
Section 13	No significant changes.
Section 14	No significant changes.
Section 15	No significant changes.

#### Tables

- Table 2-1: Change authorized radionuclides to match current license limits (Amendment No. 63).

#### Figures

- Figure 4-45: New figure for brook and debris piles – gamma walkover survey.
- Figure 4-46: New figure for brook and debris piles – soil sample locations and results.

#### Attachment 4 – Environmental Information Report

This report provides environmental information in support of the NRC review of DP Revision 2.

#### Attachment 5 – Derivation of Site-Specific Soil DCGLs Addendum

This report provides the basis and modeling results for additional proposed site-specific soil DCGLs for thorium and radium.

## Attachment 2

### 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**

**February 26, 2010**

**NRC License No. 06-00217-06**

**LIST OF EFFECTIVE PAGES**

**LICENSE AMENDMENT APPLICATION**

<u>Page No.</u>		<u>Effective Date</u>
Title Page		02/26/10
1	Table of Contents	08/30/01
2		12/31/08
3		11/18/09
4		10/19/06
5		10/19/06
6		10/19/06
7		10/19/06
8		10/19/06
9		10/19/06
10		10/19/06
11		10/19/06
12		01/25/08
13		12/31/08
14		02/26/10
15		01/25/08
16		10/19/06

## **10.0 Technical Requirements**

### **10.1 Exposure Control and Monitoring**

Personnel dose control and monitoring for licensed activities is described in Sections 10.1.1 and 10.1.2. Monitoring shall be performed for individuals likely to receive in excess of 10% of the applicable limit in 10 CFR 20. Work restrictions shall be implemented if an individual reaches 50% of the applicable limit.

The licensee will survey applicable portions of the facility and maintain contamination levels in accordance with the survey frequencies contained in written procedures. Release of equipment and materials from restricted areas shall be in accordance with the NRC's "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. The building DCGLs for the CE Windsor Site are uranium 20,148 dpm/100cm<sup>2</sup> (total alpha plus beta) and Co-60 6,980 dpm/100 cm<sup>2</sup> (total beta) as accepted under Decommissioning Plan Revision 1. The DCGLs for the CE Windsor Site for soils and sediments are:

Uranium – 557 pCi/g total uranium	Thorium – 4.0 pCi/g Th-232
Reactor Byproduct Material – 5.0 pCi/g Co-60	Radium – 5.5 pCi/g Ra-226

Radiological surveys are conducted on a routine basis, both in and adjacent to restricted areas. The type, location and frequency of surveys shall be specified in written procedures. Radiation and contamination surveys are performed only by qualified personnel, with qualification as determined by the RSO.

#### **10.1.1 External Dose Monitoring**

Personnel monitoring devices (e.g., TLDs; extremity badges) are used as determined by the RSO. If used, they shall be processed at least quarterly by a vendor accredited by NVLAP.

#### **10.1.2 Internal Dose Monitoring**

In vivo and/or in-vitro monitoring may be performed, upon direction of the RSO, to assess and monitor workers' internal dose. Such monitoring may include body/lung counts, bioassay monitoring and/or breathing zone air sampling.

### **10.2 Environmental Monitoring**

#### **10.2.1 Environmental Monitoring, Sampling and Counting**

The Site Radiation Protection Program includes environmental monitoring to demonstrate compliance with 10 CFR 20.1301. Samples obtained from surface and well water, sediment, and soil are analyzed for the presence of radioactive materials. Sample location and frequency is specified in written procedures, or at the direction of the RSO.



This is to acknowledge the receipt of your letter/application dated

2/26/20, and to inform you that the initial processing which includes an administrative review has been performed.

☒ 06-00217-06 DECOMMISSIONING PLAN, REV. 2  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 144470.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.