

## **ABB, New Berlin Facility Green Tier Application Attachment 2**

RE: Regarding Superior Environmental Performance Objectives for ABB plant located at 16250 West Glendale Drive, New Berlin, Wisconsin 53151

### **Past Environmental Performance**

The ABB New Berlin facility operations include the product development, design, manufacture, sales, and service of AC and DC drives, control systems and power converters, and sales of electric motors. For an energy-driven ABB product, most environmental impacts arise during its operating life rather than during its manufacture. To ensure that ABB can minimize its product's consumption footprint, the facility has implemented design modifications to its existing product line that focuses on energy efficiency throughout the lifetime of the products.

In order to further this product and process improvement strategy, the ABB New Berlin facility (ABB) has initiated a sector specialist team system. The sector specialist team system utilizes the strengths and ingenuity of employees at the facility who are involved in the daily operations. Each team is tasked with improving a sector of the operations. This system has resulted in substantial increases in an ABB product's efficiency throughout its use and at every stage of the manufacturing, receiving, and distribution process.

Additionally, the sector specialist approach has assisted ABB in the development of a process driven Environmental Management System (EMS) certified under ISO 14001:2004. ABB's EMS identifies and divides each process undertaken at the facility and lays out a clear, concise procedure that has been designed with input from sector specialist teams to reduce environmental impacts. ABB has established process procedures designed to further reduce environmental impacts.

To enhance the functionality of the system, ABB routinely audits the effectiveness of its procedures and ABB sets achievement goals through its Environmental Objectives and Targets program (O's and T's). As the target dates approach, ABB reviews its progress in implementing the system. ABB has previously used its O's and T's program to implement a facility-wide asbestos removal program, a product line energy usage reduction program, a hazardous substance reduction and removal program, a recycling and reuse program, a suppliers checklist to ensure downstream environmental management review program, and a facility storm-water run-off review.

### **Current Environmental Performance Efforts**

ABB is currently completing a facility-wide lighting upgrade to promote energy efficiency. ABB has developed an O's and T's framework for retrofitting all office lighting with T8 electronic ballasts (350 fixtures) and converting metal halide lighting in the shop area with energy efficient T5 fluorescent lighting (2,022 tubes). To further this objective, ABB has committed to the installation of motion detectors in conference rooms, offices and training rooms. ABB is currently in the process of replacing the ballasts and testing the fluorescent lighting and motion detector systems to determine the

best equipment for the facility. Preliminary tests and calculations suggest the reduction of waste electricity should result in a complete recovery of expenses. ABB intends to complete the facility-wide energy usage reduction program by the end of the year.

In addition to the lighting upgrades, ABB has set an objective of reducing total energy usage by 5% over the course of the year. This target has been designated in an effort to further reduce ABB's carbon footprint and is being implemented to reduce ABB's greenhouse gas emissions. To further accomplish ABB's goal of reducing greenhouse gas emissions, the facility is currently in the process of building new receiving docks to improve product flow and output. These steps to promote efficiency will minimize transportation fuel usage and energy utilized in the manufacturing, storage, and shipping of products produced at the facility.

ABB has also set the objective of improving employee awareness of ABB's recycling program by posting visual indicators and reference materials pertaining to the Environmental Aspect Handling and Disposal Procedure and reporting the latest environmental news to ABB employees. ABB has identified seventeen (17) target areas where increased awareness materials should have the greatest influence. The seventeen areas include: twelve conference rooms, two training rooms, two break areas, and a cafeteria. ABB has a target completion date near the end of summer 2007.

Lastly, ABB continues to identify and set new environmental objectives through our continual environmental improvements program. This program allows ABB employees the flexibility to identify processes and implement environmental improvement strategies for areas that do not require the structure of our O's and T's program. Currently, this program is being implemented to reduced ABB's chemical waste stream, reduced onsite petroleum and chemical waste storage time, and to reduce the energy utilization on ABB's production line. The continual environmental improvements program also provides and incentive to employees to air proactive ideas to improve efficiency and environmental performance that often leads to ABB's future O's and T's.

ABB commits to reporting any future O's and T's that the facility adopts to the WDNR and to report the progression of those programs that are currently being implemented.