

Appendix 5-B
DVD of Stack Lighting

Introduction

Night-time video taping of a waste to energy plant stack was taken to visually demonstrate the intensity and intervals associated with stack lighting within a one mile radius. The waste to energy plant that was used as a test site for the video is owned and operated by Wheelabrator Millbury, Inc. and is located at 331 Southwest Cutoff Road in Millbury, Massachusetts. The stack associated with the waste to energy plant has a height of 365-feet and has strobe lighting 360 degrees around the tower at both the mid-point and peak areas. Video of the tower was taken for 1-minute at four separate distances to visually demonstrate strobe intensity.

Methods

On the evening of November 11, 2008, still photographs and short video clips were taken of a 365-foot stack in Millbury, Massachusetts. Aerial photography was used to determine distances, roadways and landscape positions within 1.0 mile of the tower. From this study, four locations were identified at .25, .5, .75 and 1.0 mile from the stack for video taping. It is important to note that at the 1.0 mile interval, the tower was not completely visible due to terrain or tree canopy cover. As a result, video taken at the 1.0 mile interval did not show the strobe lighting at the mid-section of the stack.

Results

Four still photographs document the existing stack and plant during daylight hours from each of the four sampling locations. Video taping of the stack at the four previously identified locations was undertaken during the evening in order to demonstrate the stack lighting and strobe effect. Both sections of stack lighting was visible from each of the four sampling locations during the evening survey with the exception of the 1.0 mile interval. A compilation DVD of the four video clips is included in this report. The four sampling locations are shown below in order to provide the viewer with points of reference for viewing the DVD.

Figure 1. Location 1, approximately 0.25 miles northeast of the stack.



Figure 2. Location 2, approximately 0.5 miles northeast of the stack.



Figure 3. Location 3, approximately 1.0 mile north of the stack.



Figure 4. Location four, approximately 0.75 miles south of the stack.

