

WELLESLEY MUNICIPAL LIGHT PLANT



MEMO

To: Municipal Light Board

From: Francisco A. Frias

Date: July 10, 2008

Re: 4th Quarter Reliability Report

The Municipal Light Plant (“MLP”) records and analyzes all power interruptions experienced by Wellesley residents and businesses. Three industry accepted indices are used to compare Fiscal year 2008 (“FY08”) outages to the prior year and *Five Year Historical Average*.

During the fourth quarter 688 customers experienced a service interruption compared to 2,380 customers in Fiscal Year 2007 (“FY07”). Year-to-date, 5,450 and 11,425 customers experienced power outages in FY08 and FY07, respectively. It is important to note that 58% of the customers interrupted this quarter were a direct result of inclement weather conditions.

The System Average Interruption Duration Index (SAIDI) is the most often used benchmark to measure system reliability. SAIDI identifies the number of minutes, on average, a Wellesley customer is without power. The MLP’s SAIDI was 8 minutes for the fourth quarter of FY08 and 33.8 minutes for the entire year. Those numbers compare to 9.55 minutes for the fourth quarter of FY07 and 41.62 minutes for the entire FY07.

For FY08 the MLP experienced 2 minutes of equipment-related outages in the fourth quarter and 6 minutes for the entire year. Those numbers compare to 2 minutes for the fourth quarter of FY07 and 16 minutes for the entire FY07.

A summary of all the outages is included as *Attachment I* in this document.

Attachments

WELLESLEY MUNICIPAL LIGHT PLANT

Summary of 4th Quarter Outages

Circuit Line	Date	Time	Cause	Customers Affected
1584	Apr 1, 2008	4:20PM – 7:00PM 4:20PM – 9:40PM 4:20PM – 11:50PM	Tree came down on wires	72 Customers affected
1533	Apr 5, 2008	9:25AM – 9:40AM	Squirrel caused electrical fault	3 Customers affected
1531	Apr 30, 2008	6:30AM – 7:10AM	Verizon contractor caused secondary short.	2 Customers affected
1585	May 11, 2008	10:00AM - 10:13AM	Squirrel caused electrical fault	6 Customers affected
1583	May 24, 2008	6:30AM – 6:50AM	Squirrel caused electrical fault	58 Customers affected
200S	May 28, 2008	1:20PM – 2:00PM	Tree came down on wires	6 Customers affected
600	June 10, 2008	6:00PM – 6:30PM	Overloaded fuse due to weather	64 Customers affected
800	June 10, 2008	6:00PM – 6:15PM	Overloaded fuse due to weather	59 Customers affected
800	June 10, 2008	6:45PM – 7:00PM	Defective connectors on secondary wires	7 Customers affected
1581	June 10, 2008	8:55PM – 11:20PM	Overloaded step-down transformer due to weather	115 Customers affected
1581	June 10, 2008	9:50PM – 10:15PM	Overloaded fuse due to weather	11 Customers affected
1582	June 16, 2008	8:50PM – 11:20PM	Primary Cable damage due to lightning	245 Customers affected
1584	June 16, 2008	9:05PM – 12:05PM	Blown fuse due to lightning	14 Customers affected
1584	June 23, 2008	10:30AM – 11:00AM	Tree branch came down on wires. Outage taken for worker safety.	19 Customers affected
800	June 23, 2008	6:45PM – 8:00PM	Blown fuse due to lightning	2 Customers affected
1533	June 24, 2008	7:35PM – 8:05PM	Damaged Lightning Arrestor. Outage taken for worker safety.	5 Customers affected

Note: Some outages were divided into sections with power restored at different times.