

WEST BOYLSTON MUNICIPAL LIGHTING PLANT

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Board of Light Commission, Regular Session Meeting Minutes of August 6, 2019.

Present: Board members Tony Meola and Win handy, GM Jonathan Fitch, were present. Parks and Recreation Commissioner Steve Blake was also present.

The meeting was called to order at 5:05pm by Commissioner Meola.

Agenda: The Board reviewed and approved the agenda as posted.

Customer Questions or Concerns: Parks and Recreation Commissioner Blake asked the Board to consider retrofitting the existing 1,000-MH fixtures around the tennis courts with new energy efficient LEDs. GM Fitch told the Board and Commissioner Blake that he would get quotes for the new fixtures and put on the agenda at the next meeting.

Financial Statements: The Board reviewed and discussed the attached income statement through May 31, 2019.

National Grid Transmission System Outage. The Board and GM discussed the town wide outage on July 22, 2019 at approximately 3:47am. The town wide outage was caused when our 115-T2 GSB tripped, opening our connection to the 115kV P-142-W line. Within three seconds West Boylston's load automatically switched over to the Boylston side of the substation and their connection to the 115kV P-142 line. National Grid's protection system sent a ground trip signal to our GSB breaker. This may have been caused by a shield/ground wire falling between two transmission towers and the phase conductors along the 115kV P-141 line. This occurred about 1.5 miles away in National Grids ROW in West Boylston near the Worcester/West Boylston town line.

GM Fitch asked National Grid to review the sequence of events and protection settings that caused the trip signal to be sent our 115-T2 GSB.

Retirement: GM Fitch told the Board that Pattie Fanning was retiring from WBMLP, effective August 31, 2019, after approximately 28 years of service to the ratepayers of West Boylston. WBMLP will host a lunch at the light department, 12:00 noon, August 16 to thank Pattie for her service.

Fiber Backbone: GM fitch and the Board discussed the project to install backbone fiber through West Boylston. The MLPs of Shrewsbury, Boylston, West Boylston, and Sterling are beginning the project to install a fiber backbone thru each territory. WBMLP will be responsible for purchasing and installing 6 miles of 432 ADSS fiber and hardware along Route 140 from Boylston to Sterling. The approximately material cost is \$125k. WBMLP will get 144 fiber strands for our use.

Flywheel Energy Storage System ACES Grant: The Board and GM discussed the FESS project. GM Fitch told the Board that WBMLP and Amber Kinetics finished the installation of the (16) flywheels and resumed charge and discharge operations on July 18, 2019.

GM Fitch told the Board that WBMLP is actively managing the charge and discharge cycles to reduce our system peak load at the twelve, monthly coincidental transmission peaks for National Grid and the annual capacity peak for ISO-NE. Hourly revenue meters are installed at the FESS and solar system to verify the transmission and capacity revenue streams. Amber Kinetics is monitoring and testing two 8kW flywheels that are not performing to specifications. These may have to be replaced under warranty.

WBMLPs M&V will be installed by Cadmus within 3-4 weeks. All equipment for the M&V plan is ordered and will provide higher level interval data to ACES.

ISO-NE's loads hit a new peak load on Tuesday, July 30, 2019. The capacity peak, so far for 2019, was 23,969MW during HE18 (5pm to 6pm). This may be the capacity peak for the year and WBMLP's FESS discharged approximately 100kW at this hour, reducing WBMLPs coincidental system peak to 11,199kW for HE18. Additionally, our 370kW solar system, interconnected with the FESS, was still producing 78kW during this hour and further contributed to reducing our potential annual capacity peak load. WBMLPs coincidental peak will be used to calculate WBMLPs capacity obligations for the commitment period, 6/1/2020 to 5/31/2021, assuming loads for the remaining part of summer do not exceed this peak. ISO-NE will confirm the actual capacity peak day and hour in the fall.

Capacity market rate = \$5.31/kW-month x 100kW x 12 = \$6,372 savings in 2020/2021

MLP GGES Standard/Legislation: The Board discussed House Bill 2863 and how it sets greenhouse gas (GHG) emission reduction goals and requires each

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MLP to establish a greenhouse gas emissions standard known as the “Municipal Lighting Plant GGES.”

The Board and GM Fitch discussed and reviewed the attached report titled “Fuel Mix and Greenhouse Gas Emissions of Municipal Electric Light Plants in Massachusetts”.

GM Fitch and the Board discussed ensuring that WBMLPs existing large-scale hydro and nuclear energy complied with the GGES standard. This GGES standard provides WBMLP the time to change its energy portfolio and help the Commonwealth reach its long term GHG emission reductions goal of 80% by 2050.

Commissioners Handy and Meola directed GM Fitch to invite Senator Chandler to the next Board meeting in September to discuss HB2863.

Building Renovations: GM Fitch provide a project update. Davis Architect completed the interior design and specifications for the renovation project. IFB will be published August 8, 2019.

The meeting adjourned at 6:20pm. The next meeting is 5:00pm, September 3, 2019.

Tony Meola

Win Handy