

Operations Report to Directors - Mississippi River Power Corp.

October 6, 2020

Last regular meeting – August 21, 2020

Generation for the month of August was 1,031,806 KWh. We generated 240,534 KWh on peak, at a rate of \$0.1515 per KWh for a total of \$36,440.96. We generated 791,271 KWh off peak, at a rate of \$0.1163 per KWh, for a total of \$92,024.86. Total generation revenue for the month of August was \$128,465.81.

At the time of our last meeting, the flow in the river was measuring just under 13 cms in Appleton. Precipitation in the latter part of the month and early September brought the flow up to a high of 21 cms on September 7th. Shortly thereafter the flow began to decrease again, and has bounced between 10 and 15 cms over the past couple of weeks. As of last Tuesday, the flow was about 12 cms and we were generating 1200KW.

Last month our staff changed the locking mechanism on the overhead door at the generating station. With the change, staff will be able to unlock and open the overhead door from the outside and inside. This provides an additional exit for our staff, improving our Workplace Emergency Evacuation Plan.

Late last month, staff scraped and re-painted the fence at the old generating station.

In late August, staff from Canadian Hydro Components helped with dismantling turbine #1 to make previously approved improvements and repairs. While the unit was dismantled, we had dye penetrant testing done on the blades and did some touch-up painting inside the penstock. The necessary parts were replaced on the turbine, and the unit is now back together. There is a small leak in the seal between the two halves of the runner chest that we are addressing prior to removing the tailrace gates.

Early in September, someone attacked one of our small trees in the park, with what may have been a hatchet. Our staff did some research on how to help the tree heal, and took the recommended steps. Later that week, some kids knocked down our two new bird feeders and threw them in to the river. I copied the video surveillance footage and presented it to the OPP.

Dion Fire Extinguishers were here earlier this month and tested all of our extinguishers.

Our staff have made a few adjustments to the height of the dock in Metcalfe Park, as water levels have changed.

There was a power outage on September 7th, which shut our station down for about 3 hours.

Advanced Alarms sent a representative to fix the problem with the lock timer at the public washroom building.

We've been having issues lately logging into the SCADA remotely. Gedawin Novo Controls has been notified and are working on the problem.

Last week, we noticed that the blades on unit #1 would not move position. After troubleshooting, we contacted Canadian Hydro Components for assistance. Mike Dupuis discovered a faulty relay. We had a spare in stock, and after switching it out, the issue was resolved.

Staff noticed a large gathering (roughly 60 people) in the park on Saturday evening. A mess was left behind, including garbage bags tied to some of our small trees. I've advised staff to notify the OPP via the non-emergency number is gathering like this are noted again, since they contravene the recent restrictions implemented by the Province, related to COVID19.

That's all for this month.

Generation Stats

This section shows annual figures

Budget Generation 2016 \$2,424,651
 Actual Generation 2016 \$1,918,603
 Actual Generation 2016 (KWh) 15,715,881

Budget Generation 2017 \$2,355,095
 Actual Generation 2017 \$3,899,139
 Actual Generation 2017 (KWh) 31,939,350

Budget Generation 2018 \$2,306,244
 Actual Generation 2018 \$2,455,780
 Actual Generation 2018 (KWh) 19,960,232

Budget Generation 2019 \$2,411,009
 Actual Generation 2019 \$3,007,133
 Actual Generation 2019 (KWh) 24,327,543

This section shows figures representing the period of January 1 – August 31 (2019 vs 2020)

| 2019 | | 2020 | |
|-------------------|----------------|-------------------|----------------|
| Budget Generation | \$1,813,079 | Budget Generation | \$1,822,043 |
| Actual Generation | \$2,356,447 | Actual Generation | \$2,147,389 |
| Actual Generation | 19,086,838 KWh | Actual Generation | 17,277,122 KWh |

NOTE: The projected (or budgeted) revenue/KWh output is often well above or below the actual totals. As a run-of-river station we must base our projections on AVERAGE flows. Verified flow data exists on our system from 1919 to the present. We use data from 1960 to the present in our projections, as regulation of the system has changed significantly over the past 100 years.

Scott Newton, General Manager
