

Operations Report to Directors - Mississippi River Power Corp.

February 26, 2021

Last regular meeting – December 17, 2020

Generation for the month of December was 3,170,847 kWh. We generated 727,882 kWh on peak, at a rate of \$0.1515 per kWh for a total of \$110,274.07. We generated 2,442,966 kWh off peak, at a rate of \$0.1163 per kWh, for a total of \$284,116.90. Total generation revenue for the month of December was \$394,390.97.

Generation for the month of January was 3,105,444 kWh. We generated 711,923 kWh on peak, at a rate of \$0.1515 per kWh for a total of \$107,856.31. We generated 2,393,521 kWh off peak, at a rate of \$0.1163 per kWh, for a total of \$278,366.49. Total generation revenue for the month of January was \$386,222.81.

At the time of our last meeting, the flow in the river was measuring at around 43 cms in Appleton, well above the seasonal average. Flows dropped slightly over the next week. Then heavy precipitation on December 24/25 brought flows back up over 60 cms and they continued to rise, to a high of 72 cms in early January. Since that time the flow has been steadily dropping. As of February 22nd, the stream gauge in Appleton measured 28 cms, which is right about where we would expect for this time of year. With that flow our generation output is around 3500 KW.

We've had several nights since mid-December where frazil ice has caused issues with the operation of the station. Staff have done well to keep the station running in most cases.

In December, our SCADA was generating nuisance communication failure and invalid signal alarms. This resulted in call-outs to operators. We discovered that the issue was caused by a faulty switch in the control cabinet in the old generating station. A new switch was ordered and installed upon arrival.

Packings in stuffing box on units were tightened in December/January.

We recovered Ottawa Valley Rail Trail signs from our intake and returned them to the County.

Clean Water Works replaced the sewage grinder pump in the basement at the BJG GS at the end of December.

Last month staff pulled the top log from bay #5 at the Millfall Dam. This maintains movement of water at the dam, enabling us to get logs out in the Spring, when we need to get them out. Without the movement of water, the logs can get frozen in place.

We switched our emergency lighting over to more efficient LEDs.

Staff installed new storage racks and shelving in the station.

A service technician from Brandt Tractor was onsite on February 10th to inspect the Hawk. One of the cylinders had been leaking and the operation was very choppy. The technician removed the turning cylinder and brought it back to their shop to hone it (removing corrosion) and source new seals. The cylinder was re-installed the following week.

All staff completed the Ministry of Labour's "Worker Health and Safety Awareness" training module.

Generation Stats

This section shows annual figures

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 – December 31 (2019 vs 2020)

2019		2020	
Budget Generation	\$2,411,009	Budget Generation	\$2,422,929
Actual Generation	\$3,016,239	Actual Generation	\$3,062,661
Actual Generation	24,327,543 kWh	Actual Generation	24,649,416 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.

Scott Newton, General Manager

