



Year in Review Presentation
Mississippi Mills Council
November 3, 2020



Company Structure

- Board of Directors (5 Members)
 - Paul Virgin - President
 - Adrian Foster - Vice-President
 - Lyman Gardiner - Secretary-Treasurer
 - Garry Dalgity - Director
 - Mayor Christa Lowry - Council Representative
- Staff
 - Scott Newton - General Manager
 - Merlin Knapton - Plant Manager
 - Tammy Gallagher - Plant Maintenance
 - Frankie Minnille - Part-time Maintenance Contractor



Corporate Structure

- Mississippi River Power Corp. is the generation side of the former Almonte Hydro.
 - NOTE: Ottawa River Power Corporation is a completely separate company, which owns the distribution (wires) assets of the former Almonte Hydro.
- MRPC is a Corporation, under the Ontario Business Corporations Act, and was formed in 2000 after the electricity industry in Ontario was deregulated.
- The Corporation of the Municipality of Mississippi Mills owns 100% of the shares in MRPC.



MRPC Owns

- Brian J. Gallagher Generating Station (4.6MW) built in 2010 on the Lower Falls
- Intake facility (Old GS) and property on the Middle Falls.
- Substation (MS#1) adjacent to the Old GS
- Millfall and Earthen Dams, rebuilt in 2018



Mississippi Mills Owns & MRPC Operates

- The Hydro Office building at 28 Mill St.
 - The Municipality leases the building to MRPC. MRPC in turn subleases portions to subtenants.
 - MRPC is responsible for building expenses
 - MRPC and ORPC will be relocating shortly.
- Metcalfe GeoHeritage Park
 - The Municipality leases the park to MRPC.
 - MRPC is responsible for maintenance/upgrades.
 - MRPC planned and covered costs of the design and upgrades to the public washroom in the park in 2012 and significant upgrades and landscaping of the park in 2014.



2019 YEAR IN REVIEW



Operational Improvements & Employee Safety

- All staff completed annual training requirements.
- Installed bridge crane in the station, making material handling and generator maintenance safer and easier for staff.
- Inspections of newly re-built Millfall and Earthen Dams added to maintenance schedule.
- Made significant improvements to the Millfall Dam log operations, including extended walkway, extended rails, modified logs, and better tie-off points.

Millfall Dam





Operational Improvements & Employee Safety

- Numerous improvements to SCADA system (including replacement of the server), resulting in more efficient operation of the station.
- Divers removed debris from intake.
- Completed Dam Safety Assessment of the main weir.
- Replaced all ladders with Class 1 Fibreglass.
- Started work to remove wires from the corner of the old station, which were a danger to staff operating the Hawk (trashrack cleaner).
- Commenced research on replacement options for the Hawk.



Commitment to Community

- Conducted tours of the Generating Station.
- Staff completed large clean up of the river in the lower falls area.
- Staff voluntarily spent weeks in the Spring assisting residents with sand-bagging and supplying/operating pumps, during flooding.
- Added wall downstream of the earthen dam to prevent erosion and make a safe walking path for the Riverwalk towards the soon-to-be installed Millworker's Staircase.
- Completely re-landscaped and dedicated Des Houston Park, adding bench, picnic table and gardens.

Des Houston Park





Corporate

- Completed a 25 year Financial Model, Employee Compensation Review and Vision/Mission Statements as part of Strategic Planning process.
- Celebrated inaugural Waterpower Day in Ontario.
- MRPC GM joined Mississippi River Watershed Public Advisory Committee.
- Continued penstock claim process, settled on date for mediation in 2020.
- Completed purchase of Earthen Dam land.
- Declared a \$225,000 dividend to Mississippi Mills for 2019.



Operations

- Completed site review and preliminary design options for the Bywash.
- Removed 15 logs from Millfall Dam in Spring to reduce flooding.
- Re-pointed MS#1 (substation).
- Replaced all logs in bywash, reducing leakage.
- Completed significant repairs to turbine #2.
- Completed preventative maintenance and testing on various major electrical components, including:
 - Circuit breaker maintenance & testing
 - Transformer inspection and testing
 - Transformer oil testing

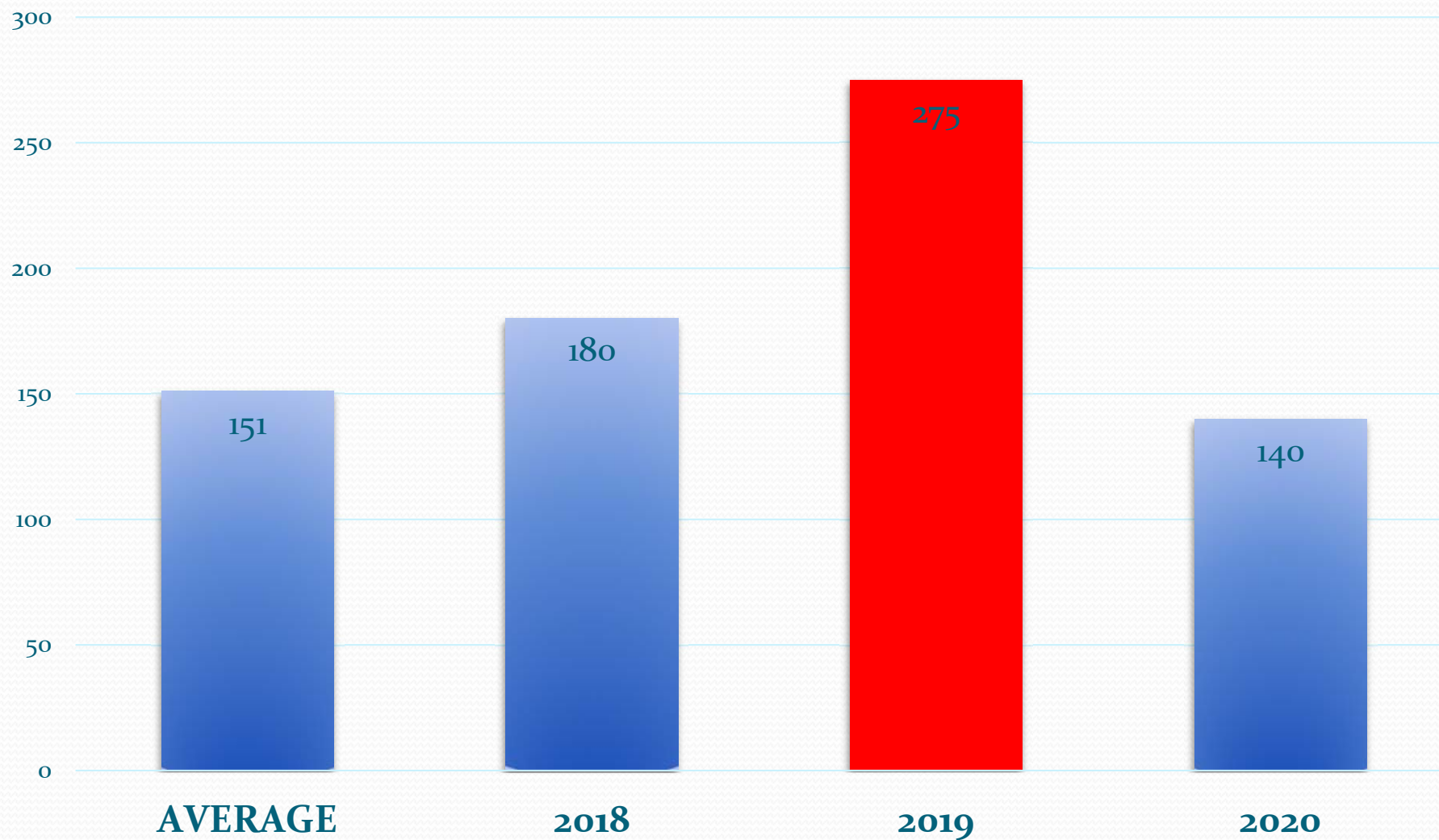


Flow Summary

- Significant precipitation in late December 2018, led to higher than average flows to start 2019.
- Heavy precipitation in early April, during snow melt, led to high flood flows in the Spring.
- Flooding was significant throughout the watershed and peaked in late April at 275cms.
- Only 1998 had higher Spring peak flow (283cms)

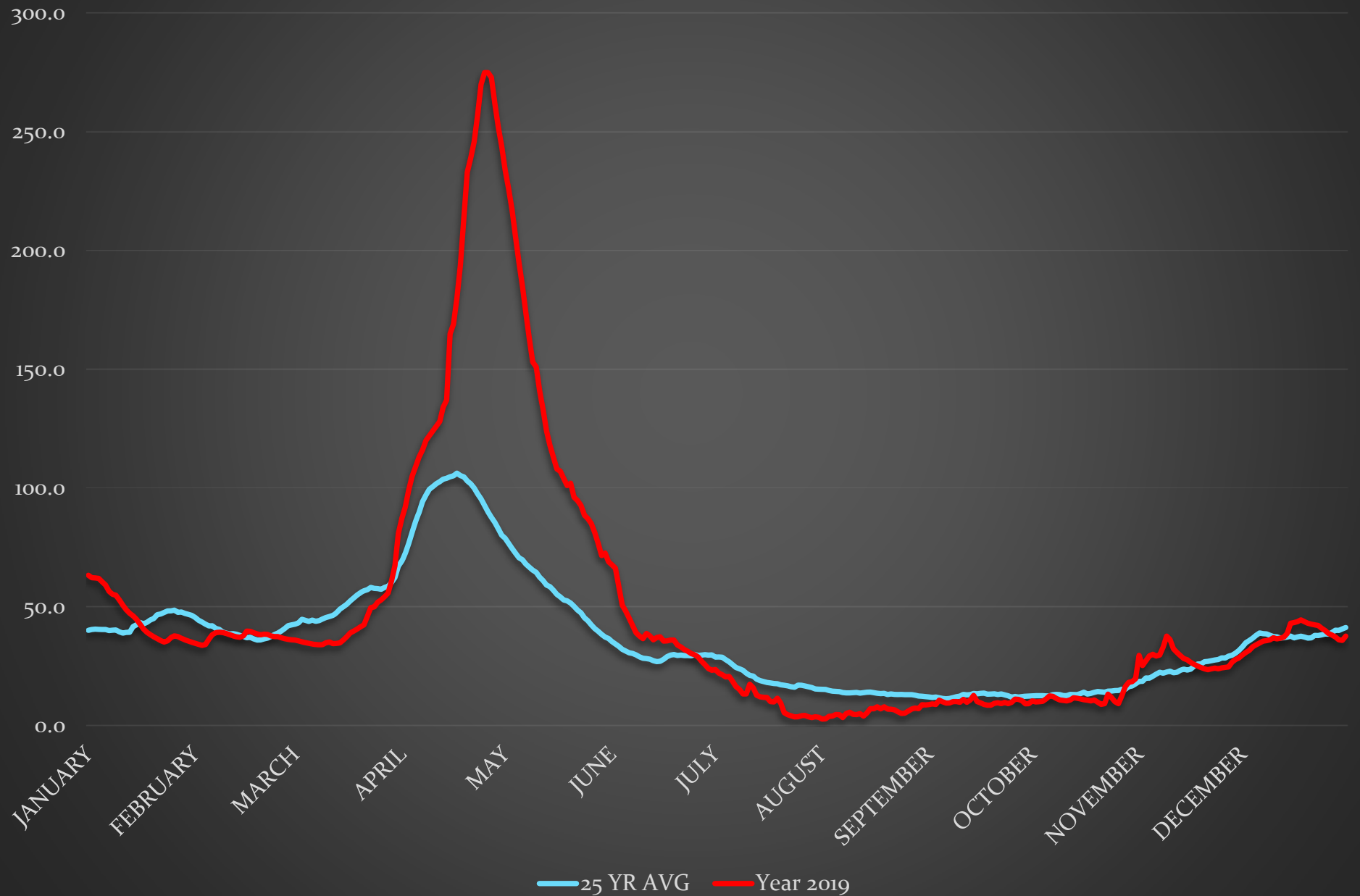
SPRING PEAK FLOW

in cubic metres per second



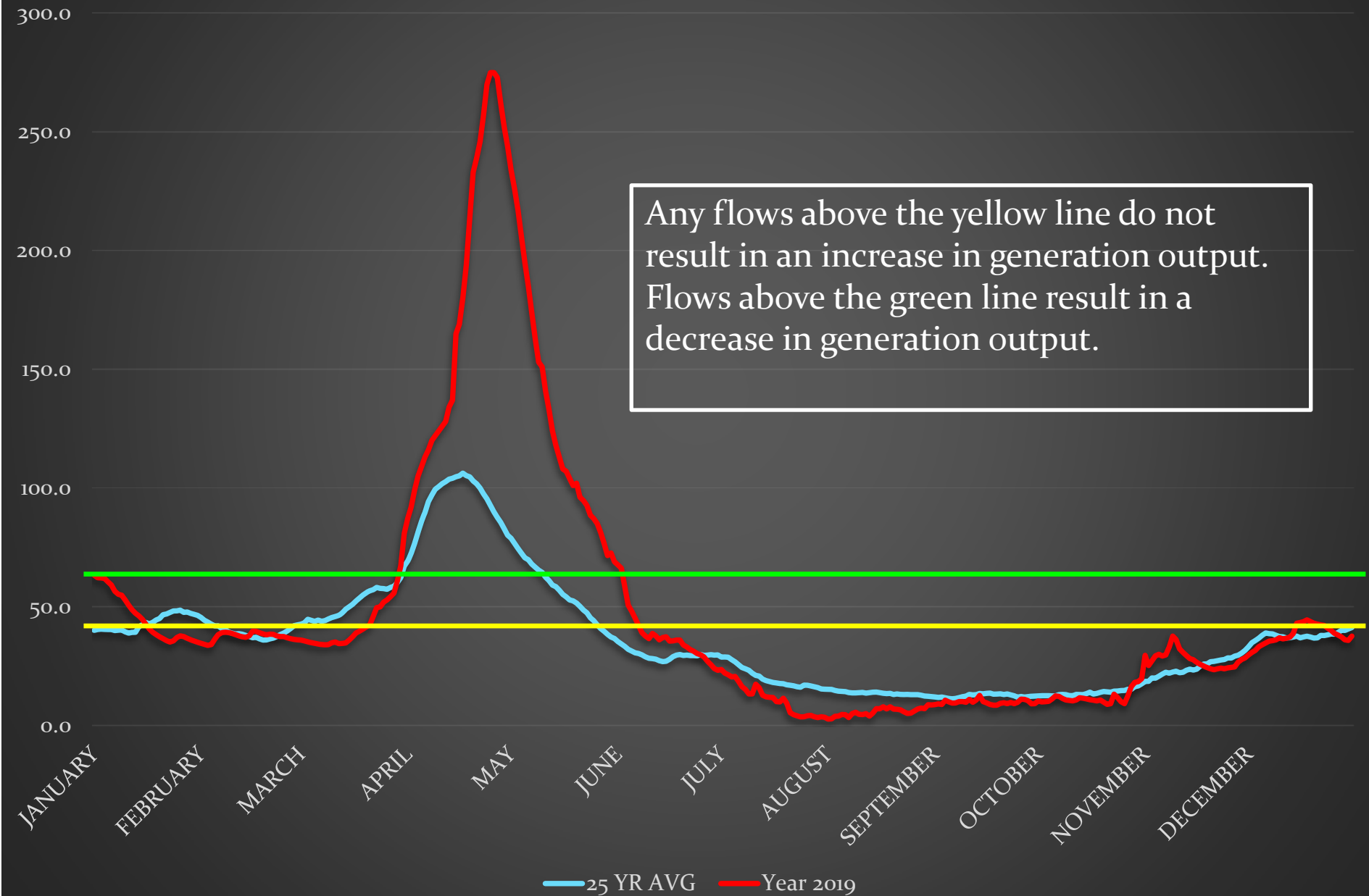
FLOWS (CMS)

25 Year Average vs 2019



FLOWS (CMS)

25 Year Average vs 2019

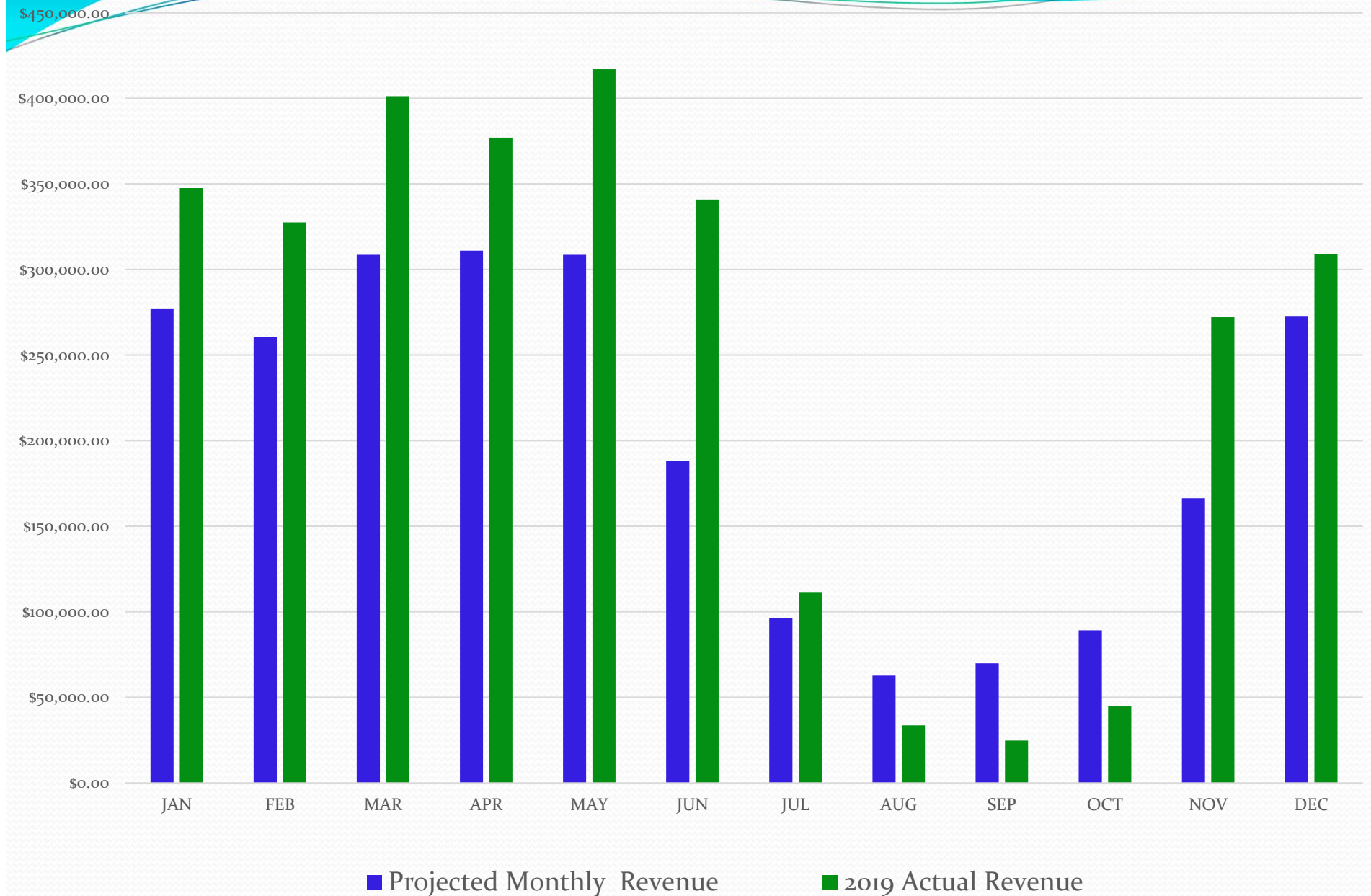




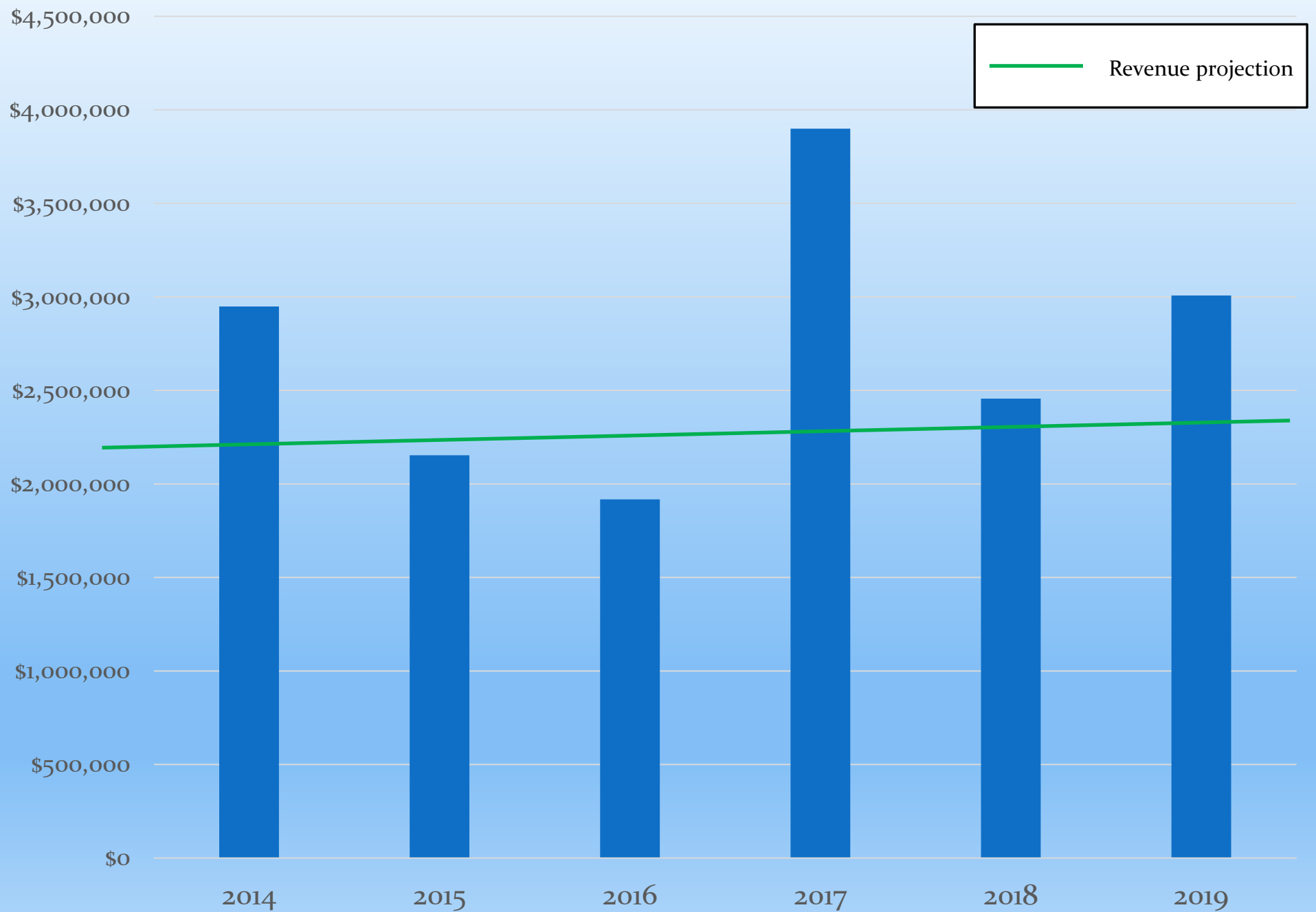
Revenue

- Revenue projections are based on historical flows in Mississippi River at Appleton, over the past 50 years.
- The maximum flow the station can pass is 38-40 cms.
- When flows increase beyond 60 cms, generation decreases due to loss of net head.
- 2019 projected revenue =\$2,411,009
- 2019 actual revenue = \$3,018,069

2019 MONTHLY REVENUE COMPARISON Projected vs Actual



ANNUAL GENERATION REVENUE





Shareholder Payments

- Generation assets of old Almonte Hydro transferred by Municipality to MRPC in exchange for promissory note.
- Interest on promissory note paid annually.
- Mississippi Mills also owns 100% of MRPC shares.
- Dividend paid to MM when available.

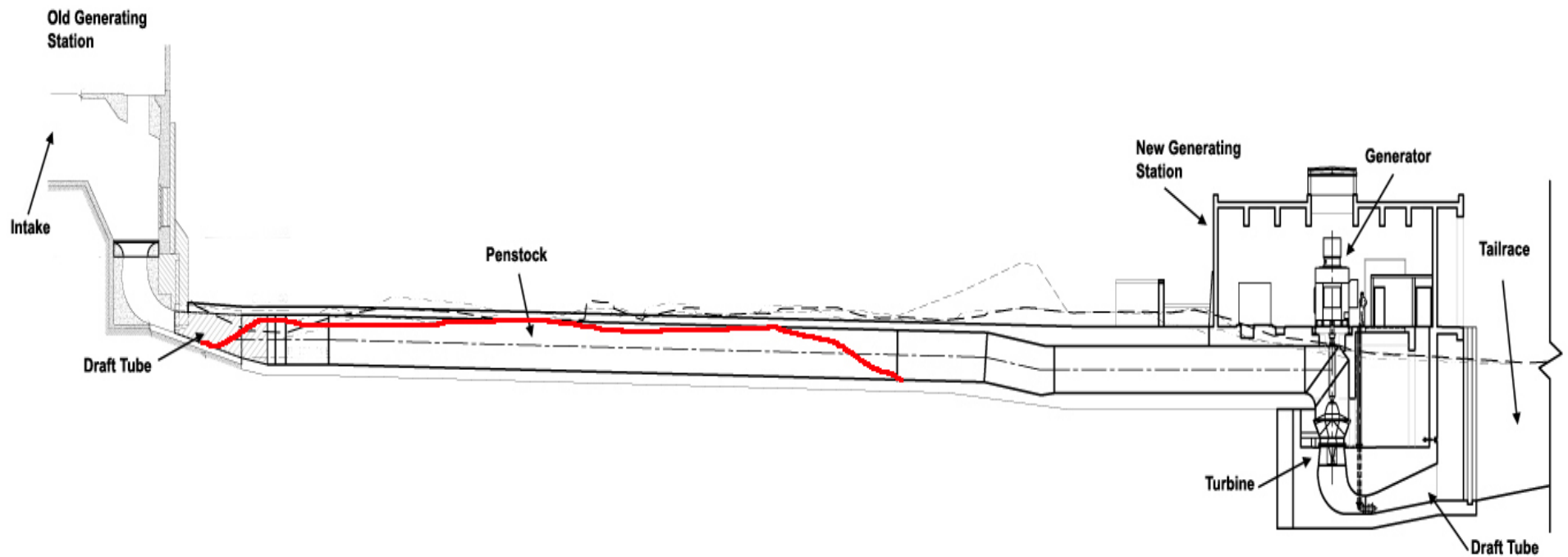
Year	Interest Prom. Note	Rent	Dividend
2015	119,432.70	36,000.00	225,000.00
2016	119,433.00	36,000.00	0.00
2017	119,433.00	36,000.00	225,000.00
2018	119,433.00	36,000.00	225,000.00
2019	119,433.00	36,000.00	225,000.00
TOTAL	\$597,164.70	\$180,000.00	\$900,000.00
TOTAL PAYMENTS TO THE MUNICIPALITY (past 5 years)			\$1,677,164.70

Penstock Claim

- Station online in 2010.
- Penstock #2 collapsed in April of 2012
- Penstock #1 shut down as precautionary measure.
- Repairs to #1 completed in February of 2013.
- Repairs to #2 completed in November of 2013.
- Total expenses and losses approximately \$4.3M.



Penstock Damage



Penstock Damage





Penstock Claim cont'd

- Payments received in 2013/14 from insurer for repairs and losses associated with #2.
- In 2014, a Statement of Claim was filed in the courts against the engineers and contractors involved, for expenses/losses to repair #1.
- Concurrent Statement of Claim was filed by our insurer (MEARIE) for the cost of repairs and losses associated with the collapse of penstock #2.
- In 2019 the Superior Court of Justice of Ontario capped the payment for damages at \$2M, plus expenses.
- Mediation scheduled for 2020.



2020 Projects

- Detailed design for By-wash area
- Continued development of Strategic Plan
- Office relocation
- Penstock coating touch-ups
- Turbine #1 repairs
- Replacement of Hawk (trash-rack cleaner)
- Shoreline erosion repairs downstream of Millfall Dam

