

Managing Building Information to Optimize Lifecycle Performance

Location

Calgary, AB

Project Completion

March 2018

Project Cost

\$20 Million

This \$20M project was the result of our ongoing support of SAIT's long range re-development plan and deep rooted relationships. The project will include mechanical upgrades to pumps and AHU's and electrically, the panels and infrastructure.

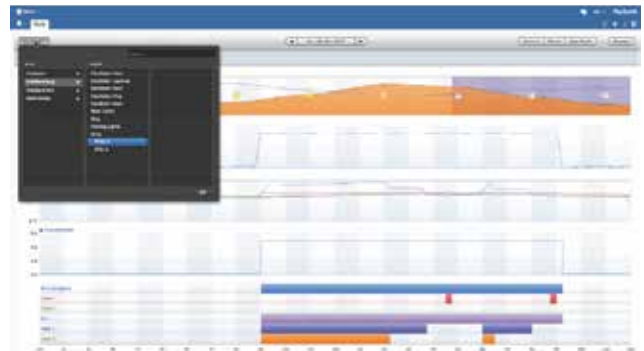
This specialized project is unique in that the building will remain operational during construction. Our main consideration is to ensure the functionality of the building while maintaining the safety of SAIT's students and staff for the duration of the project.

Innovation at work

The Senator Burns building is an older building on campus that required a mechanical and electrical upgrade to improve the environment for the occupants. The main electrical and mechanical infrastructure was upgraded along with the installation of sprinklers to bring the building up to code whilst it remained fully operational.

All the systems had been upgraded sporadically over the years so there were a number of historical operating anomalies that formed part of how the

building was running. Stuart Olson has implemented analytics at the tail end of the commissioning period and identified some operating anomalies such as chilled water temperature and flow, and are working with the trades to resolve.



Outcomes

- The implementation of analytics has helped through the commissioning process and is ongoing through the warranty period helping us to identify operational issues
- Elevated client's understanding of how their building is operating which previously was not possible.
- Optimizing the building performance will allow the College to realize energy savings
- By resolving the operational issues ahead of time it is helping Stuart Olson mitigate call backs due to occupant comfort complaints.
- Cost savings of \$80K to Stuart Olson as a direct result of installing analytics.