Niagara Region

Meeting Agenda: Product Review Committee Meeting

Date/Time: January 18, 2021 1:30 – 3:30pm
Location: Zoom Meeting

Participants
Chair: Tony Cimino, Associate Director Engineering Water & Wastewater Services

Invitees:
Joe Tonellato, Director Water and Wastewater Services
Robert Daw, Manager Wastewater Operations – Area 1
Brad Stewart, Manager Biosolids Program (T)
Barry Robbins, Manager Wastewater Operations– Area 1
John MacPherson, Manager Wastewater Operations – Area 2
Frank Vasko, Manager Wastewater Operations – Area 2
Gerry Atkinson, Manager Wastewater Operations – Area 3
John Daniels, Manager Wastewater Operations – Area 3
Dave Haley, Manager Water Operations – Area 3
Zoli Mod, Manager Water Maintenance – Area 3
Adrian Rittner, Manager Water Operations – Area 2
Tim Peyton, Manager Water Maintenance – Area 2
Jeff Carl, Manager Water Operations – Area 1
Adam Allcock, Manager Water Maintenance – Area 1
Frank Gazzola, Energy Management Project Manager
Ed VanVliet, Manager Technical Trades (SCADA)
Berny Portolesi, Manager Skilled Trades (Instrumentation)
Scott Gabel, Manager Skilled Trades (Technical Trades)
Laura Graham, Administrative Assistant W-WW

Guests: Narayan Venkatesh, Archer Separation
Carrett Cahill, Archer Separation
Cynthia Nwabuokei, Vector Process Equipment
Andre Osborne, Vector Process Equipment

Absent: Scott Gabel, Manager Skilled Trades (Technical Trades)

Matters for Discussion	**Lead**
Presentation	
Company – Vector Process Equipment Inc. **Manufacture**r - HAUS Centrifuge Technologies, HAUS Turbo Blower **Presentation** Centrifugal Compressor with magnetic bearings and variable speed. Blowers and air compressors are extensively used in treatment plants for aeration and ventilation pools and sludge treatment Blower Selection - Site elevation, relative humidity, ambient temp, flow requirements, discharge pressure Discussed Motor Cooling System Magnetic vs Air Foil. Discussed Bearing Technology Comparison between Air Foil Blower vs Magnetic Bearing technology. Magnetic Bearing Blowers are more efficient capable of achieving up to 85% efficiency where as Air Foil Blowers can only achieve between 68-75% efficiency. Main Design Features - highest efficiency impeller and casing in the market using adjusting vanes in the diffuser making it more energy efficient than competitors. Compact foot print Discussed main equipment/electric and magnetic Presentation was very informative and great information.	Narayan Venkatesh, Carrett Cahill, Cynthia Nwabuokei,

T. Cimino requested a copy of the presentation and informed Haus that the PRC will be conducting a pilot study on magnetic blowers at one of the Region's Wastewater Treatment Upgrade projects and once a successful completion of the Pilot is achieved, then the PRC will evaluate the findings and determine the inclusion of magnetic blowers on the APEL.	
Chair Update The turbo blower pilot study from APG Neuros has ended on January 17, 2021 Committee discussed that the blowers have preformed well during the pilot study and had no major issues Chair recommended the addition of a Turbo Blower category to the APEL. A consensus was reached by the committee for the creation of a Turbo Blower Category Chair recommended the inclusion of the APG Neuros Turbo Blowers to be included under this new category as a result of their successful Pilot. Consensus was reached by the committee to include the APG Neuros Blower making them the first product under this newly created category. ***Action – L. Graham to send out a letter to APG Neuros, advising that Turbo Blowers will be added to the APEL***. **Sulzer Turbo Blowers** – Tender has closed for the Port Dalhousie WWTP Upgrade Project, the Chair would like to recommend to the committee that the Sulzer blowers start a one year pilot study at the Port Dalhousie WWTP Upgrade Project, (Pilot to commence after the acceptance of the commissioning on the TB at Project completion). Consensus to commence the Pilot Study on the Sulzer Blowers at the location specified was reached by the PRC. Noted - Sulzer TB have magnetic bearings, and the pilot study will obtain reporting information on this type of technology, as the APG Neuros TB now approved uses Air Foil Bearing Technology. The PRC is seeking comparison between the two types of technology. ***Action – L. Graham to send out a letter to Sulzer regarding a TB pilot study conducted at the Port Dalhousie WWTP upgrade project***.	T. Cimino Action: L. Graham Action: L. Graham
New Submissions	
Company - V. J. Pamensky Canada Ltd. **Manufacture**r - WEG **Product** - Single Phase and Three Phase Electric Motors **Product Use** - Drivers for pumping equipment (both horizontal and vertical mounted pumps) **APEL Category** – No **Decision** - Committee has decided and deemed product is not approved, since there is no category listed on the APEL and at this time we will not be adding a new category to the list. ***Action – L. Graham to send out a letter and advise product is not approved and will not be listed on the APEL***.	Committee Action: L. Graham
Company - Aquafy Water Technologies Inc. **Manufacture**r - Vulcan Industries **Product** - Model EWP Washing Press **Product Use** - The Model EWP Washing Press is a spiral press that washes organic matter out of Headworks or SPS Screenings material. Washes, dewaters, compacts and transports screenings to a conveyor, container or other suitable receiving device reliably—day in and day out. **APEL Category** - Process Equipment (but this category - Washing Press is not listed) **Decision** - Committee has decided and deemed product is not approved, we will not be adding a new category for washing press. Committee will monitor this type of product for future/upcoming projects and review manufactures	Committee

Action – L. Graham to send out a letter and advise product is not approved and will not be listed on the APEL.	Action: L. Graham
Company - Pro-Tech Power Sales **Manufacture**r - Schweitzer Engineering Laboratories **Product** - SEL- 2411P **Product Use** - Pump Automation Controller. The SEL-2411P is a standalone, preconfigured, SCADA-ready system for control and monitoring of water and wastewater pump applications. It is a simple solution to monitor and control liquid level pump-up and pump-down applications, such as lift stations (pump-down) and wells or reservoirs (pump-up) **APEL Category** – No **Decision** - Committee has decided and deemed product not approved, Pump Automation Controller will give us limited control over a sewage PS and set-points are changed at the controller not remotely, this product is not a good fit for W-WW. ***Action – L. Graham to send out a letter and advise product is not approved and will not be listed on the APEL***.	Committee Action: L. Graham
Company – Bisan Inc. **Manufacture**r - Westfall **Product -** Static Mixers **Product Use -** Westfall static mixer offers motionless mixing in process water for chemical. Westfall mixers are widely used in water and wastewater applications. **APEL Category –** No Category **Decision** - Committee has decided and deemed product not approved, at this point there in no need for this application in WW, a new category will not be added to the APEL ***Action – L. Graham to send out letter to advise this product is not approved and will not be listed on the APEL***.	Committee Action: L. Graham

Next Meeting:
Date: Next Committee meeting April 12, 2021
Location: Skype Meeting