

Meeting Minutes: Product Review Committee Meeting

Date/Time: January 6, 2021 1:30 – 3:30pm

Location: Zoom Meeting

Participants

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

Invitees: 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: Bruce Zvaniga, Commissioner of Public Works
Joe Tonellato, Director Water and Wastewater Services
Omar Hammoud, CEO and President of APG Neuros

Declined: Gerry Atkinson, Jeff Carl, Adam Allcock, Frank Gazzola

Matters for Discussion	Lead
<p>Presentation</p> <p>APG Neuros Turbo Blowers - Presentation</p> <p>Discusses company history and facilities</p> <p>Engineering capabilities</p> <p>Discussed 2019-2020 secured products in Canada</p> <p>Horsepower of products offered</p> <p>Product improvements and product reliability</p> <p>Discussed Turbo Blowers at the Crystal Beach WWTP and NOTL WWTP</p> <p>Both sites having no issues at present time</p> <p>Questions from the committee</p> <p>T. Cimino - Energy Efficiency of the blower - 30-35%</p> <p>Air bearing Turbo Blower have multiply start and stop options, have you done anything to correct the issue from the bearing being damage.</p> <p>Reply - Our Turbo Blowers have no issues with air bearings and with the multiply start stops. We make both bearings for Turbo Blowers</p> <p>B. Robbins –NOTL WWTP blower is good and reliable having no issues at present time. This site has the Preventive Maintenance Service (PM) on the product. Question which bearing air and magnetic is more reliable.</p> <p>Reply - Both bearings are reliable, air bearings are installed more often since these are much simpler.</p>	<p>Omar Hammoud</p>

<p>B. Robbins - If the product fails, do you have Technicians that come to site. Reply - Technicians are located in Ontario they are certified and trained to complete replacements and are able to trouble shoot issues. At this time the Company does not employ their own Technicians, third party. Replacement parts would be at site within a 48hrs timeframe.</p> <p>Question F. Vasko – Comparison of the magnetic bearing and air bearing, both have a life limit. What is the limited factor in the air bearings, any parts consumable? Reply - Air bearing has no life limit. Magnetic bearing limiting factor would be the capacitors and the magnetic controls due to the energy going through at a high rate. About every 7-10 years parts need replacement (electrical components)</p> <p>Question T. Peyton - Does the magnetic bearing require a battery backup. Reply - yes it requires battery backup.</p> <p>Question T. Cimino – Service Contracts, are all parts and labour included in the services contracts? Reply – Yes, all parts and labour are included except for filters and consumable items. Also included in the service contract are product upgrades.</p> <p>Discussed the Preventive Maintenance Plans and Asset Management Programs. These can be discussed at a further time.</p> <p>B. Robbins – Would be interested learning more about the PM plans/contracts.</p> <p>T. Cimino - The pilot study at the NOTL WWTP ends on Jan 17, 2021 and we look forward to putting APG Neuros Turbo Blowers on the Approved Product List (APEL) the committee will have a brief discussion after the presentation ends and notification to confirm the product inclusion on the APEL will follow.</p> <p>O. Hammoud would like to offer Niagara Region a gas turbine blower at one of the W-WW facilities free of charge to see performance operation, and is also offering assessments on a location.</p> <p>Presentation ended at 14:30</p>	
<p>Presentation Discussion from the Committee Presentation went well. Good information and questions asked, product looks favourable Discusses the offer that Mr. Hammoud announced regarding the free installation pilot of the gas turbine blower. T. Cimino asked committee members to identify a location where a pilot study could be of value and this will be discussed at a future committee meeting. D. Johnson – he would require more information regarding site evaluation (biogas) the Company offered a free location assessment. Concerning questions mentioned from committee members; Is there installation costs involved? Any additional costs we would need a breakdown on costs. F. Vasko stated that their preventative maintenance plan does not include parts, wastewater has been paying for parts. Committee will discuss this offer in more detail at a future meeting</p>	All
<p>Chair Update Attendance at committee meetings is required so we can make proper decisions and evaluate products. Need to receive comments in advance. If you can't attend, send your comments to L. Graham or T. Cimino or send someone on your behalf to attend the meeting. Reminder to the committee that all new trials and new products submissions must go through this committee. In order to properly document the trial and track performance as per the terms of reference.</p>	T. Cimino
<p>New Submissions</p>	

<p>Company - ABB Inc Manufacturer - ABB (previously GE) Product - Evolution E9000 Product Use - Evolution Series E9000 motor control centers (MCC) provide safe and flexible centralizing of motor starters and related control equipment. It combines motor control units, feeder units, distribution transformers, lighting panels, relays, remote and local control, sophisticated communications, metering and other miscellaneous devices to be contained in a single floor-mounted structural assembly fed from a common enclosed main bus. APEL Category - Electric Manager Feedback (Scott Gabel) No issue with adding ABB Motor Control Centers to our approved list. We use several ABB products already.</p> <p><u>Meeting Discussion</u> Committee has agreed and sees the benefit to add this product to the APEL Committee deemed product approved Action L. Graham to send letter and advise the company that product will be placed on the APEL</p>	<p>Committee</p> <p>Action: L Graham</p>
<p>Company - Indachem Inc. Manufacturer - UGSI Chemical Feed Inc. Product - PolyBlend DD4/DP800 Product Use - Polymer Make-Down and Feed System. PolyBlend models are installed at the NFWWTP APEL Category – No category Manager(s) Feedback Barry Robbins - Units are installed in the Niagara Falls WWTP and would recommend the feedback from the Area I WW Ops and Maintenance. There is no category for these types of units on the APEL. Perhaps there should be. John McPherson - no issue with adding product this to the list. Niagara Falls is or has trialed it and we have no similar system of this type on the list. Contacted Rob Daw and waiting on a reply to get a sense of his satisfaction with the unit. I may have a need for one coming up in Crystal Beach, so having this available would help.</p> <p><u>Meeting Discussion</u> F. Vasko – how much detailed products to we need on this list. Our list is for major products. Keep 3-4 products under a category. No category for this product, committee a deemed that creating a category for this type of equipment is not required at this time. L. Graham to send letter and advise the company that product will not be placed on the APEL</p>	<p>Committee</p> <p>Action: L Graham</p>
<p>Company - Vector Process Equipment Inc. Manufacturer - Kusters Water Product - Clarifier Sludge and Scum Removal Equipment Product Use - Used to remove solid particulates or suspended solids from liquid for clarification and/or thickening APEL Category - Process Equipment Manager(s) Feedback Barry Robbins - An interesting design, and from a maintenance perspective, it looks to be easier to replace the blades because there are so few of them. Our APEL could use more options for sludge/scum collection systems for the primary and secondary clarifiers. John McPherson - Pre-pandemic, we had a review for a company that also manufactures (or at least supplies) this type of equipment. It was rejected at the time and we have since installed similar equipment on upgrades (Seaway WWTP). On that basis, there would be no need to place this requestor on the APEL either.</p> <p><u>Meeting Discussion</u> Do we want an additional supplier, are they offering anything different. J. MacPherson – We have turned the last vendor down that applied under this category B. Robbins - looks like a nice design, may want to consider. Could be more parts to maintain? We do have others on the list that are good.</p>	<p>Committee</p>

<p>F. Vasko – had two (2) new clarifiers installed at SeawayWWTP that are similar in design to this product. Do we want another supplier? What is their history like on this product, are they reliable? Product is very similar to the others on the list. Do these different blades even apply to our industry?</p> <p>J. Daniels – too many sites having different products, We would need to house inventory and parts, and have the knowledge to work on so many different products. Costs are high if we have so many products.</p> <p>Does this product have any other benefits then the other products already approved in this category</p> <p>The committee has deemed this product not approved, the committee is satisfied with the products listed on the APEL and at this time we will not be adding to the category.</p> <p>Action L. Graham to send letter and advise the company that product will not be placed on the APEL</p>	<p>Action: L Graham</p>
<p>Company - IndusControl Incorporated Manufacturer - Cerlic Product - Automatic Optical Sludge Blanket/Suspended Solids Meter Product Use - Cerlic CBX is a reliable stationary sludge blanket meter that detects sediment or thickened sludge at various positions in wastewater plants. It can also be used for applications measuring an interface in a floating medium. Uses NIR technology, as sensor travels through fluff layers until it finds the present blanket solids concentration. Also provides sludge profile in which fluff layers can be seen and has an automated self cleaning mechanism for both sensor and cable, which reduces maintenance cost to minimal. APEL Category - No Category</p> <p><u>Meeting Discussion</u> No category for this product and a category for this type of equipment is not required at this time</p> <p>Action L. Graham to send letter and advise the company that product will not be placed on the APEL</p>	<p>Committee</p> <p>Action: L Graham</p>
<p>Company - IndusControl Incorporated Manufacturer - Draeger Product - Gas Monitoring Product Use – Fixed combustible gas detection - infrared APEL Category - Control and Instrumentation Manager Feedback - (B. Portolesi) we will maintain the existing region gas monitoring systems and equipment listing. Albeit the presented equipment line does not offer any characteristics that are above and beyond our existing devices thus there is no present requirement to add them to our listing.</p> <p><u>Meeting Discussion</u> B. Portolesi – If placed on list, we will have to start to change our system on how we communicate between the field devices and the OIC. They use a different system network. If the product is approved we will have to increase inventory. No benefit to this product. Committee has deemed this product not approved, this product would change our system communication and the network.</p> <p>Action L. Graham to send letter and advise the company that product will not be placed on the APEL</p>	<p>Committee</p> <p>Action: L Graham</p>
<p>Company - Pro-Line Fittings, Manufacturer - Szuster System Product - Check Valve (Elbow Ball & In-line Ball) Product Use - Excellent wastewater check valve, non-clogging, non-vibrating, low flow operation, easy to maintain, space saving design. Available 90 degree style, combi type with knife gate & in-line. APEL Category – Valves</p> <p><u>Meeting Discussion</u> No ball checks on the APEL F. Vasko - one advantage that product can be ordered with the isolation valve attached</p>	<p>Committee</p>

<p>B. Robbins and J. Daniels - No trouble with others products that are currently on the APEL. Would need to stock more parts and a new subcategory would need to be added to the APEL Committee has deemed that a subcategory is not required at this time.</p> <p>Action L. Graham to send letter and advise the company that product will not be placed on the APEL</p>	<p>Action: L Graham</p>
<p>Company – Bisan Inc. Manufacturer - EMEC/ BISAN, Inc. Product - Chemical Feed pumps & systems, plus Instrumentation Product Use - Chemical Feed system used for injecting chemicals into process, W&WW and other applications. BISAN offers and manufactures packaged chemical feed systems under the trade name Sure' n Safe. APEL Category - Control and Instrumentation</p> <p><u>Meeting Discussion</u> Z. Mod – on the water side, we have Grundfos products that we are standardizing. Would need to stock parts and see no additional benefit to add this product. B. Portolesi – looking at the Instrumentation part of this package, we would require changes to the installation since this is a whole system, (pump feed system). Could not just replace one part, would require a complete replacement. This product would not merry to our current system. It would require a big change for W-WWW Committee has deemed this product not approved, it will not merry to our current system many changes would be needed.</p> <p>Action L. Graham to send letter and advise the company that product will not be placed on the APEL</p>	<p>Committee</p> <p>Action: L Graham</p>
<p>DEFER TO NEXT MEETING Company – Bisan Inc. Manufacturer - 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</p>	<p>Committee</p>
<p>NEXT MEETING Presentation Company – Vector Process Equipment Inc. Manufacturer - HAUS Centrifuge Technologies Product - HAUS Turbo Blower Product Use – Centrifugal Compressor with magnetic bearings and variable speed, is one of the most advanced technology blowers. Blowers and air compressors are extensively used in treatment plant for aeration and ventilation pools and the sludge treatment. APEL Category - Process Equipment Chair - Requested presentation, confirmed virtual presentation to be held on Jan 18, 2021</p>	<p>Committee</p>
<p>New Business</p>	
<p>Reminder on “how to” view PRC information and submissions on the Vine All submissions are available to view on the Vine use this link Product Review Submissions click on the vendor name and open the attachment.</p> <p>If we have any products on the APEL that are not providing valve, these products can be discussed/review.</p> <p>It is this committees responsibility/duty to police contractors to make sure all products in use, are listed on the APEL</p> <p>Question FV – asked about housing comments/information in one place on the PRC Team Site</p> <p>Note – L. Graham sent an email (Jan 7. 2021) to committee members stating At the PRC meeting yesterday it was mentioned about housing all comments/feedback for product submissions in one location. On the PRC Team Site we can start using the “General Discussion” section to provide comments/feedback.</p>	<p>Committee</p>

Under “General Discussion” click on <i>Electronic Submittals</i> then <u><i>add a new discussion</i></u> and enter your information.	
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Next Meeting:

Date: Presentation HAUS Turbo Blowers Jan 18th, Next Committee meeting April 12, 2021

Location: Skype Meeting