



XYLEM WATER SOLUTIONS USA, INC. – FLYGT
15132 Park of Commerce Blvd/102 Jupiter, FL 33478
Phone: 561-515-1200

Mr. Keith McCully, P.E.
Indian River County, Florida

June 28, 2017

Re: Xylem, Inc. – Flygt Brand Submersible Propeller Pump Unit Reliability

Dear Mr. McCully:

Xylem, Inc. – Flygt brand heavy-duty electric submersible centrifugal and propeller pump units are particularly well suited for application in storm water pumping and flood-protection applications. Flygt delivers the highest level of operational availability and latest technology in impeller/propeller and wear- ring design coupled with superior motor unit monitoring that easily connects to supervisory systems including the Flygt MultiSmart unit.

Xylem, Inc. Flygt brand pumps offer the most-broad range of centrifugal and axial flow propeller pumps, with individual pump units each capable of delivering from 1,000 GPM to beyond 100,000 GPM at heads of 3-feet to beyond 575-feet TDH. Motor sizes are available from 2-HP to beyond 1,000- HP and capable of operating on power supply voltages from 200V to 4,160V.

Flygt brand submersible pumps offer L10 minimum bearing life ratings of 50,000 hours for motors up to 100-hp and L10 minimum bearing life ratings of 100,000 hours for motors above 100-hp in size. There are as many as 11 individual internal motor unit sensors that can be installed to deliver operational feed-back to supervisory systems including the Flygt MultiSmart unit as well as a Pump Memory Chip that works with the Flygt Monitoring and Status (MAS-711) unit to record such things as: run time, cumulative number of motor starts, bearing temperature, motor temperature and vibration levels.

Flygt Impellers and propellers utilize back-swept blades that provide unparalleled clog resistance. The patented backswept design readily sheds foreign material in conjunction with self-cleaning functionality delivered by the specific slot positioned in the wear-ring so to mitigate clogging before it can become an issue.

Flygt propeller pumps also uniquely offers engineered and patented pump inlet formed-suction intake (FSI) that when employed in a pump station will allow for significant reduction of the pump station plan area while enhancing pump hydraulic operation. The reduction in pump station size can be as much as 25%, thus significant savings in civil works can be achieved.

Xylem, Inc. – Flygt's local application and systems engineers stand ready to assist consulting engineers, municipal and agency engineers with the optimizing of pump station design and with pump unit selection.

Xylem, Inc. employs 6 full time Flygt service personnel in the immediate area and offers 24 Hour service. Flygt has 3 service trucks and 2 additional crane trucks capable of lifting up to 10,000 lbs. All pump repairs are performed in our Jupiter FL location by factory trained technicians with genuine Flygt parts and no third party replacements. The Jupiter service facility has the ability to service pumps up to 15,000 pounds. All Flygt pumps are provided with a 5 year pro-rated warranty standard with extended warranties available.



Flygt pumps are integrated with a state of the art control system including a MultiSmart controller which allows customers to easily manage all aspects of a pump station without requiring any third party engineered programming to adjust the operation and features as required with PLCs. The controller replaces the functions of pump controllers, HMIs, flow meters, energy and power meters, supply monitoring and protection, current monitoring, insulation resistance testers, motor protection relays, run timers, start counters, and seal failure relays all in one compact unit; thus reducing cost and size of control cabinets while increasing reliability. The MultiSmart unit also communicates with Flygt Cloud SCADA software that comes with pre-tailored and customizable configurations to meet the needs of any pump station. The Flygt controls service center is located in the Jupiter FL Flygt office and is equipped with plug in replacements to minimize downtime as much as possible.

If you have any questions or comments, please feel free to contact me at your convenience to discuss them.

Sincerely,

Sincerely,

Eric Johnson



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