



AGENDA
Committee on Ways and Means
Friday, July 12, 2019 @ 8:30 a.m.
City Council Conference Room, City Hall 10th Floor

Councilmember Spitzley, Chair
Councilmember Spadafore, Vice Chair
Council Member Dunbar, Member

1. Call to Order

2. Approval of Minutes

- June 14, 2019

3. Public Comment on Agenda Items

4. Discussion/Action:

A.) Sole Source Purchase; Public Service Department, Recycling Division request for Stansley – Recycling Waste Services as the vendor for the purchase of Hauling Single Stream Recycling

B.) Sole Source Purchase; Public Service Department, Wastewater Division request for Kennedy Industries as the vendor for the purchase of the Flygt Pump Replacement for Willard Pump Station

C.) Sole Source Purchase; Public Service Department, Wastewater Division request for Collcorp Inc. – Ironbrook as the vendor for the purchase of UV Disinfection System Lamps and Parts

5. Other

6. Adjourn



DATE July 12, 2019

[illegible]



MINUTES
Committee on Ways and Means
Friday, June 14, 2019 @ 8:30 a.m.
10th Floor Conference Room, City Hall

CALL TO ORDER

The meeting was called to order at 8:30 a.m.

ROLL CALL

Council Member Patricia Spitzley, Chair
Council Member Peter Spadafore, Vice Chairperson
Council Member Kathie Dunbar, Member -

OTHERS PRESENT

LaSondra Crenshaw, Administrative Assistant
Eric Brewer, Council Internal Auditor
Jim Smiertka - City Attorney
Mary Bowen – Law Department
Joe McClure, LPD
Angela Bennett, Finance Director

Minutes

MOTION BY COUNCIL MEMBER SPADAFORE TO APPROVE THE MINUTES FROM MAY 24, 2019 AS PRESENTED. MOTION CARRIED 2-0.

Public Comment

No public comment

Discussion/Action

Sole Source Purchase – Lansing Police Department request for Thermo Scientific Inc. as the vendor for the purchase of the Tru Narc Substance Testing Device

Mr. McClure stated LPD has one Tru Narc Substance Testing Device currently, which is used in Special Operations; the device is admissible in court and reduces officer's exposure to substances. Two more devices will be purchased with a JAG grant for \$52,050.50

MOTION BY COUNCIL MEMBER SPADAFORÉ TO RECEIVE AND PLACE ON FILE THE SOLE SOURCE PURCHASE LANSING POLICE DEPARTMENT REQUEST FOR THERMO SCIENTIFIC INC AS THE VENDOR FOR THE PURCHASE OF THE TRU NARCH SUBSTANCE TESTING DEVICE. MOTION CARRIED 2-0

OTHER

No other topics of discussion

ADJOURN

Adjourn at 8:34 a.m.

Submitted by,

LaSondra Crenshaw, Administrative Assistant

Lansing City Council

Approved by the Committee on _____

CITY of LANSING

INTEROFFICE COMMUNICATION

TO: Andy Schor, Mayor

FROM: Stephanie Robinson CPPB, Senior Buyer

DATE: June 21, 2019

SUBJECT: Sole Source Purchase – Stansley – Recycling Waste Services

Please include this Sole Source packet of information in your transmittal to Council as required by the Purchasing Ordinance Section 206.05.

In summary, the Purchasing Office processed the following Sole Source transaction:

Department: Public Service Department, Recycling Division
Vendor: Stansley – Recycle Waste Services
Item Purchased: Hauling Single Stream Recycling
Dollar Amount: \$ 21,750 (FY19 account 590.453685.743000)

Additional information pertaining to this purchase is attached for your information:

This letter is filed in accordance with the Purchasing Ordinance Section 206.05 (a) and (b).

slr

CITY of LANSING
INTEROFFICE COMMUNICATION

TO: Andy Schor, Mayor
Samantha Harkins, Chief of Staff

FROM: Stephanie Robinson, CPPB, Senior Buyer

DATE: June 12, 2019

SUBJECT: Sole Source – Stansley Group – Hauling Single Stream Recycling

The Public Service Department – O&M Division requests that Stansley Group. be designated as a Sole Source vendor for the hauling of single stream recycling.

Please see the attached letter from Nathan Arnold and attached approval from Andrew Kilpatrick regarding the request.

Based on the attached letter we recommend issuing a sole source purchase order to Stansley Group, in the amount of \$ 14,500 ~~per month for approximately six to twelve months~~ ^(plus) per the request of the Public Service Department .
for SIX WEEKS

Attachment

Date: 6.13.19

Approved X Denied _____

AS
Andy Schor, Mayor



Andy Schor, Mayor

PUBLIC SERVICE DEPARTMENT
Operations and Maintenance Division
601 East South Street
(517) 483-4161
FAX: (517) 483-4483
<http://publicservice.cityoflansingmi.com>



To: Stephanie Robinson, Buyer - Purchasing

From: Nathan Arnold, Assistant Superintendent, O&M

A handwritten signature in black ink, appearing to be "N. Arnold", is written over the name "Nathan Arnold" in the "From:" line.

Date: June 11, 2019

Subject: Sole Source Request Hauling Single Stream Recycling

We are requesting a sole source arrangement for services from Stansley Group. The current hauler, CEI, has a long, documented history of failing to pick up loads. There is limited space in the recycling transfer station to store materials, therefore, they must be hauled out daily to keep up. Staff have contacted multiple hauling companies and followed up on many leads, but have come up with only one good option, which is Stansley Group.

There services are needed to move the stored materials out of the transfer station to get caught up and help to manage the flow of materials to the processor in Southfield, MI.

Stansley Group has 142 yard walking floor compactor trailers available. The price is \$725/load. We expect these trailers to fit more materials in them than CEI could with their 110 yard trailers, so it's likely we'll have fewer loads. They could potentially haul up to 20 plus loads/month, totaling appx \$14,500/month, depending on need.

Account number #: 597453685743000

Please let me know if you have any questions.

**CITY OF LANSING**

124 W. Michigan Ave
Lansing, MI 48933
(517) 483-4128

TO: RECYCLE WASTE SERVICES INC
3793 SILICA RD, STE B
SYLVANIA, OH 43560

PURCHASE ORDER

P.O. NUMBER	P086025
DATE	06/14/19
VENDOR I.D.	V010744
DELIVERY DATE	
FOB	
REQUISITION NO	PR014464
OUR PURCHASE ORDER NUMBER MUST APPEAR ON ALL INVOICES, PACKING LIST AND CORRESPONDENCE.	

Page 1 of 1

PHONE#

FAX#

DELIVER ITEMS TO:

PUBLIC SERVICE OPERATIONS & MAINTENANCE
601 E SOUTH ST
LANSING, MI 48910

SEND INVOICE TO:

PUBLIC SERVICE OPERATIONS & MAINTEN
601 E SOUTH ST
LANSING, MI 48910

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	EXTENSION
001	RECYCLE HAULING	21,750	EA	1.00	21,750.00
				TAX	0.00
				TOTAL	21,750.00

THE ARTICLES SPECIFIED ARE SUBJECT TO THE FOLLOWING CONDITIONS:

1. Goods other than those specified on this order must not be substituted or prices changed without authorization.
2. If the quantity shipped is short of the purchase order quantity, specify on the packing slip if that quantity is on back order or cancelled.

Stephanie Robinson

From: Kilpatrick, Andrew <Andrew.Kilpatrick@lansingmi.gov>
Sent: Wednesday, June 12, 2019 2:30 PM
To: Stephanie Robinson
Cc: Mumby, Christopher
Subject: RE: doc01396620190611144039.pdf

[EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

- ITD

Stephanie,

I approve this as a sole source to get our recycle transfer pile empty (or down to a reasonable level). Moving forward, we may need to put a bid out for 6 months to a year since our current vendor is not providing timely service.

Andy

From: Mumby, Christopher <Christopher.Mumby@lansingmi.gov>
Sent: Wednesday, June 12, 2019 2:27 PM
To: Stephanie Robinson <Stephanie.Robinson@LBWL.COM>; Kilpatrick, Andrew <Andrew.Kilpatrick@lansingmi.gov>
Subject: Re: [EXTERNAL] doc01396620190611144039.pdf

He's aware of the recycling "emergency". He should be able to respond shortly.

Christopher

Sent from my T-Mobile 4G LTE Device

----- Original message -----

From: Stephanie Robinson <Stephanie.Robinson@LBWL.COM>
Date: 6/12/19 2:26 PM (GMT-05:00)
To: "Mumby, Christopher" <Christopher.Mumby@lansingmi.gov>, "Kilpatrick, Andrew" <Andrew.Kilpatrick@lansingmi.gov>
Subject: [EXTERNAL] doc01396620190611144039.pdf

I believe we are waiting for updated costs, but I need for approval from director of PS for this sole source. I understand that Stansley could start tomorrow, if we get approval to move forward for the hauling.

Stephanie

CITY of LANSING

INTEROFFICE COMMUNICATION

TO: Andy Schor, Mayor
FROM: Stephanie Robinson CPPB, Senior Buyer
DATE: June 21, 2019
SUBJECT: Sole Source Purchase – Kennedy Industries

Please include this Sole Source packet of information in your transmittal to Council as required by the Purchasing Ordinance Section 206.05.

In summary, the Purchasing Office processed the following Sole Source transaction:

Department: Public Service Department, Wastewater Division
Vendor: Kennedy Industries
Item Purchased: Flygt Pump Replacement for Willard Pump Station
Dollar Amount: \$97,700 (FY19 account 590.933610.970000.20129)

Additional information pertaining to this purchase is attached for your information.

This letter is filed in accordance with the Purchasing Ordinance Section 206.05 (a) and (b).

slr

CITY of LANSING
INTEROFFICE COMMUNICATION

TO: Andy Schor, Mayor
Samantha Harkins, Chief Operating Officer

FROM: Stephanie Robinson CPPB, Senior Buyer

DATE: June 11, 2019

SUBJECT: Sole Source – Kennedy Industries – Flygt Pump Replacement

The Public Service Department Wastewater Division requests that Kennedy Industries, of Wixom, MI, be designated as a sole source vendor for a replacement of a Flygt Pump for the Willard Pump Station.

Please see the attached letter from Sid Scrimger, Bill Brunner and Christopher Mumby regarding the request. And memo from Flygt Products, stating that Kennedy is the exclusive authorized sales distributor for lower Michigan.

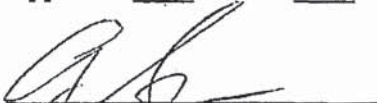
Based on the attached letter we recommend issuing a sole source purchase order to Kennedy Industries in the amount of \$ 97,700.00 from account number, 590.933610.970000.20129 per the request of the Public Service Department WWTP Division.

Attachment

slr

Date 6-18-19

Approved X Denied


Andy Schor, Mayor



Andy Schor, Mayor

**PUBLIC SERVICE
DEPARTMENT**

Wastewater Division
1625 Sunset Avenue
Lansing, Michigan 48917
(517) 483-4404
FAX: (517) 483-4536

<http://publicservice.cityoflansingmi.com/pubwater/>



To: Stephanie Robinson, Senior Buyer
From: William H. Brunner, Plant Engineer *TSB*
Date: June 11, 2019
**Subject: Recommendation of Sole-Source Supplier
Flygt Pumps for Willard Avenue Pump Station**

I recommend that Kennedy Industries (Kennedy) be awarded the work, as a sole-source supplier, to provide three Flygt Submersible vertical dry-pit pumps for \$97,700.00. These pumps will replace the existing pumps in the Willard Avenue Pump Station. Kennedy's quotation is attached,

The Willard Avenue Pump Station services an area that will include the new McClaren Hospital. The existing pumps are nearing the end of their useful life, plus they are too small to service the new hospital. It is important to get the pumps replaced with reliable, long-lasting pumps.

There are several reasons why we would like to sole-source Flygt as the pump manufacturer.

1. Service by the pump supplier, Kennedy Industries, has been very good and they are highly responsive.
2. The operators are familiar with Flygt pumps and they have been reliable in the wastewater treatment and collection system.
3. Operation and maintenance of the pumps will be similar to the other Flygt pumps that the operators already maintain.
4. The Flygt pump uses the source water for cooling. Other pumps use a potable water source for cooling, which increases the operating cost. Also, piping must be extended to the pump and be maintained. In addition, any maintenance on the pump seals requires the operators to disconnect and reconnect the water source.

Funds are allocated for this project in the following account:

\$97,700.00 590-933610-970000-20129 Willard St. Pump Station

If you have any questions regarding this recommendation, please contact me at your earliest convenience. Thank you for your assistance.

Approved: *Sid Scrimger*
Sid Scrimger, Wastewater Division Superintendent

Approved: *Andrew Kilpatrick* *FOR*
Andrew Kilpatrick, P.E., Director of Public Service

**CITY OF LANSING**

124 W. Michigan Ave
Lansing, MI 48933
(517) 483-4128

TO: KENNEDY INDUSTRIES INC
4925 HOLTZ DR
WIXOM, MI 48393

PURCHASE ORDER	
P.O. NUMBER	P086034
DATE	06/20/19
VENDOR I.D.	V000166
DELIVERY DATE	
FOB	Destination
REQUISITION NO	PR014480
OUR PURCHASE ORDER NUMBER MUST APPEAR ON ALL INVOICES, PACKING LIST AND CORRESPONDENCE.	

Page 1 of 1

PHONE# (248) 684-6011 FAX# (248) 684-6011

DELIVER ITEMS TO:

PUBLIC SERVICE WASTEWATER TREATMENT PLAN
1625 SUNSET AVE
LANSING, MI 48917

SEND INVOICE TO:

PUBLIC SERVICE WASTEWATER TREATMENT
1625 SUNSET AVE
LANSING, MI 48917

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	EXTENSION
001	FLYGT PUMP REPLACEMENT AT WILLARD RD PUMP STATION PER ALL TERMS AND CONDITIONS OF QUOTE 0023495.	97,700	EA	1.00	97,700.00
TAX					0.00
TOTAL					97,700.00

THE ARTICLES SPECIFIED ARE SUBJECT TO THE FOLLOWING CONDITIONS:

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KENNEDY
INDUSTRIES

INNOVATE
SOLVE
MONITOR
REPAIR

QUOTATION		
DATE	NUMBER	PAGE
6/6/2019	0023495	1 of 1

B LAN115
I
L CITY OF LANSING
L 124 W. MICHIGAN AVE.
T LANSING, MI 48933
O

Accepted By: _____

Company: _____

Date: _____

PO#: _____

ATTENTION:

BILL BRUNNER

517-483-4018

bill.brunner@lansingmi.gov

WE ARE PLEASED TO PROPOSE THE FOLLOWING FOR YOUR CONSIDERATION:

CUSTOMER REF/PO#		JOB TITLE	SLP	SHIPPING TYPE
QUOTE		CITY OF LANSING, WILLARD AVE, FLYGT	REA/EMG	FREIGHT ALLOWED
QTY	DESCRIPTION			

(2) FLYGT SUBMERSIBLE DRY PIT SEWAGE PUMPS, MODEL NT3171.185-437 WITH HIGH CHROME IMPELLER AND INSERT RINGS. RATED FOR 1,320 GPM @ 40' TDH, 25 HP, 3 PHASE, 460 VOLT WITH 6" DISCHARGE AND 10" SUCTION. INCLUDES 65 FT. MOTOR AND SENSOR CABLES. PUMPS EQUIPPED WITH SEAL FAIL/HIGH TEMP CABLES.

(1) SPARE FLYGT SUBMERSIBLE DRY PIT SEWAGE PUMP, MODEL NT3171.185-437 WITH HIGH CHROME IMPELLER AND INSERT RING. RATED FOR 1,320 GPM @ 40' TDH, 25 HP, 3 PHASE, 460 VOLT WITH 6" DISCHARGE AND 10" SUCTION. INCLUDES 65 FT. MOTOR AND SENSOR CABLE. PUMP EQUIPPED WITH SEAL FAIL/HIGH TEMP CABLE.

(2) FLYGT VERTICAL STAND KITS WITH 10" INLET ELBOW.

(1) LOT OF FLYGT MODEL NT3171 SPARE PARTS: REBUILD KIT, HIGH CHROME IMPELLER AND INSERT RING.

(2) FLYGT MINI-CAS SEAL FAIL, HIGH TEMPERATURE RELAY (TO BE INSTALLED IN CONTROL PANEL BY OTHERS).

(3) FLYGT 5 YEAR PRO-RATED WARRANTY.

(2) START-UP ASSISTANCE.

NET PRICE INCLUDING FREIGHT, BUT NO TAXES: --- \$ 97,700.00 TOTAL

WE DO NOT INCLUDE: INSTALLATION, SITE WORK, CONCRETE, ANCHOR BOLTS, PIPING, VALVES, COVER, CONDUIT, WIRING, JUNCTION BOXES, PADLOCKS OR KEYS, UNLESS LISTED ABOVE.

WE APPRECIATE THIS OPPORTUNITY TO QUOTE AND LOOK FORWARD TO BEING OF FUTURE SERVICE.

SINCERELY,
RICK ALVAREZ / ERIC GRIFFITH

This quote is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms & Conditions (Rev'd 4/2019) and Customer Warranty available at www.kennedyind.com which will be provided by email upon written request. Kennedy reserves the right to change the Terms & Conditions and Customer Warranty for future orders. By accepting this quote and/or issuing a purchase order relative to this quote, buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website.

**CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE
NO TAXES OF ANY KIND ARE INCLUDED IN THIS PROPOSAL**

P.O. Box 930079 Wixom, MI 48393 - 4925 Holtz Drive Wixom, MI 48393 - Phone: 248-684-1200 - Fax: 248-684-6011

www.KennedyInd.com



Xylem Water Solutions USA Inc.

David B. Gut
14125 South Bridge Circle
Charlotte, NC 28273
Tel: 704.504.3030

June 13, 2019

To whom it may concern:

Kennedy Industries, Inc. is Flygt's exclusive authorized sales, maintenance repair and service distributor in Lower Michigan for all Flygt products.

Contact information is as follows:

Kennedy Industries, Inc.
4925 Holtz Drive
Wixom, MI 48393

Phone: 248-684-1200
Fax: 248-684-6011

Email: info@kennedyind.com

Website: www.kennedyind.com

If you have any questions, please do not hesitate to contact me at 317-677-4852.

Best regards,

David B. Gut

David B. Gut
Mid-Central Regional Sales Manager, Americas Commercial Team
Dewatering, Distribution, and Water Utilities

CITY of LANSING

INTEROFFICE COMMUNICATION

TO: Andy Schor, Mayor

FROM: Stephanie Robinson CPPB, Senior Buyer

DATE: June 21, 2019

SUBJECT: Sole Source Purchase – Collcorp Inc. - Ironbrook – UV Disinfection System

Please include this Sole Source packet of information in your transmittal to Council as required by the Purchasing Ordinance Section 206.05.

In summary, the Purchasing Office processed the following Sole Source transaction:

Department: Public Service Department, Wastewater Division
Vendor: Collcorp Inc. - Ironbrook
Item Purchased: UV Disinfection System Lamps and Parts
Dollar Amount: Not to exceed \$35,000 (FY19 account 9061020164-973000)

Additional information pertaining to this purchase is attached for your information.

This letter is filed in accordance with the Purchasing Ordinance Section 206.05 (a) and (b).

slr

CITY of LANSING
INTEROFFICE COMMUNICATION

TO: Andy Schor, Mayor
Samantha Harkins, Chief of Staff

FROM: Stephanie Robinson, CPPB, Senior Buyer

DATE: May 22, 2019

SUBJECT: Sole Source - Ironbrook - UV Disinfection System

The Public Service Department Wastewater Division requests that Ironbrook be designated as a Sole Source vendor for the purchase of Ultraviolet Disinfection (UV) system lamps and replacement parts.

Please see the attached letter from Sid Scrimger and Andrew Kilpatrick regarding the request.

Based on the attached letter we recommend issuing a sole source purchase order to Ironbrook, in the amount of \$ 35,000.00 per the request of the Public Service Department Wastewater Division.

Attachment

Date: 5-24-19

Approved X Denied

AS
Andy Schor, Mayor

MEMO



TO: Stephanie Robinson, Buyer/Purchasing
FROM: Sid Scrimger, WWTP Superintendent
DATE: May 17, 2019
SUBJECT: Sole Source Purchase

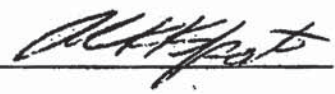
The WWTP is in need of significant work on the plant UV disinfection system. Many of the lamps in the system are nearing the end of their useful life and it is important to replace them to avoid potential discharge of pathogens to the Grand River and violation of the City's NPDES permit. In addition, a number of components have failed, requiring their replacement.

The Fischer & Porter UV system disinfects the treated water before it is released to the Grand River. It was installed in 1997, and was refurbished in 2014 at a cost of \$621,028. The City's National Pollutant Discharge Eliminations System Permit requires that effluent from the wastewater plant be disinfected before discharging it into the river.

The intent at this time is to contract replacement of lamps in those portions of the system closest to their end-of-life and have the entire system checked for functionality and repaired on an as needed basis. Since the attached quote has been provided prior to a complete assessment of the system, it lists prices for individual units rather than total cost. We do know that replacing 50% of the lamps will require 1180 lamps @ \$22.50 (\$26,550). Based on the initial assessment and unit costs for other items, the total cost should not exceed \$35,000.00.

I recommend that Ironbrook UV Corporation (Ironbrook) be awarded the work, as a sole-source contractor, to replace one-half the lamps on the ultraviolet disinfection (UV) system and replace parts as required for an amount not to exceed \$35,000.00. Attached to this document are Ironbrook's quotation, a list of customers who received refurbished or upgraded systems, and letters stating that ABB owns the Fischer & Porter design and that Ironbrook is the exclusive distributor.

 5-20-19
Sid Scrimger, WWTP Supt.

 5-20-19
Andrew Kilpatrick, P.E., Director of Public Service

**CITY OF LANSING**

124 W. Michigan Ave
Lansing, MI 48933
(517) 483-4128

TO: COLLCORP INC
1055 COUNTY RD 6N
TINY, ON L9M 0R4

PURCHASE ORDER	
P.O. NUMBER	P086010
DATE	05/29/19
VENDOR I.D.	V010733
DELIVERY DATE	
FOB	Destination
REQUISITION NO	PR014440
OUR PURCHASE ORDER NUMBER MUST APPEAR ON ALL INVOICES, PACKING LIST AND CORRESPONDENCE.	

Page 1 of 1

PHONE# (705) 533-1853 FAX#

DELIVER ITEMS TO:

PUBLIC SERVICE WASTEWATER TREATMENT PLAN
1625 SUNSET AVE
LANSING, MI 48917

SEND INVOICE TO:

PUBLIC SERVICE WASTEWATER TREATMENT
1625 SUNSET AVE
LANSING, MI 48917

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	EXTENSION
001	MATERIALS/PARTS AND LABOR TO REPLACE ONE-HALF THE LAMPS AT QTY 1180 AT \$22.50 EA BUT NOT TO EXCEED \$35,000 ON THE ULTRAVIOLET DISINFECTION (UV) SYSTEM.	35,000	EA	1.00	35,000.00
TAX					0.00
TOTAL					35,000.00

THE ARTICLES SPECIFIED ARE SUBJECT TO THE FOLLOWING CONDITIONS:

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ironbrookUV

F&P ULTRAVIOLET SPECIALISTS

March 22, 2019

Scott,

After completing a partial (2 channels out of service) of the UV system we found the following;

PDC 4-1

Rack 2 – Tripped Breaker plus blown fuse
Rack 3 – GFI trips
Rack 6 – B4 Lamp Fail
Rack 15 – B3 Lamp Fail
Rack 17 – B3 Ballast removed
UV Intensity – 0% no adjustment

PDC 4-2

Rack 6 – B3 Lamp Fail
Rack 11 – B1 Lamp Fail
Rack 14 – B1 Lamp Fail
Rack 16 – B2 Lamp Fail/B4 Lamp Fail
Rack 17 – B7 Lamp Fail
Rack 18 – B2 Lamp Fail
UV Intensity – 120% adj down to 75%

PDC 3-1/3-2 Out of service

PDC 1-1

Rack 6 – GFI Trip
Rack 15 – B6 Lamp Fail
Rack 16 – Multiple Lamp Fails
Rack 17 – B2, 3 & 4 Lamp Fail
UV Intensity 2% no adjustment

Ironbrook UV a division of Collcorp Inc
1055 County Rd 6N, Tiny ON, Canada L9M0R4 * 705-533-1853 * Toll Free 866-682-4442
Fax 705-533-3786 * ironbrookuvcorp@rogers.com * www.ironbrook.com



ironbrookUV

F&P ULTRAVIOLET SPECIALISTS

PDC 1-2

All good

UV Intensity 0% no adjustment

PDC 2-1/2-2 Out of service

With the exception of a bunch of lamp fails which is normal after this many hours and a couple of issues with controller boards the system looks great. We all agree that lamps need to be replaced but issues with controller boards, blown fuse, intensity issues should all be addressed to minimize the work needed to maintain the system.

The intensity meters most likely have moisture in the sensor which will need to be addressed. We can re-work the sensors at our location, hopefully the diodes are ok or they will need replaced. To correct all the issues we found it would take us less than a day to resolve, gives you an idea that after 4 years it would take no time at all to restore everything back to 100%

The lamps look to be burning quite nicely even after 11000 hrs. But as we discussed the time to start planning to do a lamp change is now. I believe two of the channels have close to 13K on them which is getting close to EOL.

As also discussed we can install the lamps on site, troubleshoot any issue that arises and if time allows go through the other banks and resolve some of recorded issues. This would save Lansing the time and expense of not only the removal and installation of the lamps but the issues that arise after lamp installation (which is normal).

The site does not have any spare parts as well, a system this large should have at least a few items on hand such as;

Ballast
Controller Boards
Sensors
Blowers

Ironbrook UV a division of Collcorp Inc
1055 County Rd 6N, Tiny ON, Canada L9M0R4 * 705-533-1853 * Toll Free 866-682-4442
Fax 705-533-3786 * ironbrookuvcorp@rogers.com * www.ironbrook.com





ironbrookUV

F&P ULTRAVIOLET SPECIALISTS

Although we do carry all parts for the system you want to be able to quickly replace a defective part so that the system keeps operating to full capacity.

Please refer to following pricing;

Lamps G64T5L Long life (includes installation and orings)

Qty 590 - \$26.00 each

Qty 1180 - \$22.50 each

Qty 2360 - 20.50 each

Ballast Rev 4 - \$170.00ea.

Sensors - \$950.00ea.

Controller Boards - \$550.00ea.

Blowers - \$380.00ea.

As you can see more lamps the cheaper it is per lamp and installation.

I trust this is satisfactory but if you have any questions please feel free to call or email

Regards,

Jamie

Ironbrook UV (Division of Collicorp, Inc)

1055 Country Rd 6 North

Tiny, Ontario L9M 0R4

Tele: 705 533 1853

Fax: 705 533 3786

GST: 824428635

jammerc@rogers.com

ironbrookuvcorp@rogers.com

Ironbrook UV a division of Collicorp Inc
1055 County Rd 6N, Tiny ON, Canada L9M0R4 * 705-533-1853 * Toll Free 866-682-4442
Fax 705-533-3786 * ironbrookuvcorp@rogers.com * www.ironbrook.com





September 24, 2003

Re: Fischer & Porter Ultraviolet Disinfection Design Ownership

Dear Fischer & Porter Ultraviolet Disinfection Customer:

We would like to reiterate that the design of the Fischer & Porter Tubular, GPF and Lamp Rack Continuous Boards are our design, which we developed since the inception of the product line that began with the purchasing the original Arco design in the early eighties.

As Fischer & Porter/Elsap Borey/ABB Inc. we have spent considerable cost in developing and promoting our product. This development has included decades of in-house research and development and extensive financing and hydraulic testing at Lehigh University. The testing at Lehigh was not only to comply with EPA requirements as outlined in Section 7 of the EPA Wastewater Manual, but in addition to confirm that the design was suitable for all wastewater conditions throughout the world as our systems are not limited to one geographic region. For California we did further product research and development at U.C. Davis confirming that the design met the stringent Title 22 requirements for dosage and hydraulic requirements.

ABB has and has the right to the sale and distribution of these parts upon sale of the division to Trojan Technologies. No other company shall sell these products other than our authorized distributor SanBrook Partners.

ABB will protect what we have designed and developed to the fullest legal level. As such we have requested that companies copying this product to cease production or risk further legal action. We are asking our customers to respect our position and not purchase these parts. These parts are not approved for use in Fischer & Porter UV systems nor have they been tested by Hydriquad or U.C. Davis, and hence you are violating EPA requirements with these products.

Yours truly,

ABB Inc.

Ken Burrell
Senior Product Manager
Instrumental and Control Business Unit

ABB Inc.

3150 -- West Point
P.O. Box 1000
17130 West Chester, PA

Telephone
(603) 892-5910
FAX
(603) 892-5910

Internet
www.abb.com