RESOLUTION NO. 2424

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BONNEY LAKE, PIERCE COUNTY, WASHINGTON, AUTHORIZING THE PURCHASE OF FLYGT EQUIPMENT FOR LIFT STATION #17 WITH WHITNEY EQUIPMENT COMPANY INC.

WHEREAS, the City has determined that Whitney Equipment Company Inc. is the Sole Source vendor, as they are the only supplier of Flygt equipment in Washington State. The City of Bonney Lake has chosen to outfit all of its sewer lift stations with Flygt equipment since 1987. This equipment purchase is to replace failing check ball valves that are obsolete, volutes and impellers that are also failing at our main sewer lift station #17; and

WHEREAS, RCW 39.04.280(1)(a) and (b) authorize the City to waive competitive bidding requirements for purchases that are clearly limited to a single source of supply and purchases involving special facilities or market conditions.

NOW, THEREFORE, BE IT RESOLVED that the City of Bonney Lake Council does hereby authorize purchase of this equipment in the amount of $48,074.18.

PASSED by the City Council this 28th day of October, 2014.

Neil Johnson Jr., Mayor

AUTHENTICATED:

Harwood T. Edvalson, MMC, City Clerk

APPROVED AS TO FORM:

Kathleen Haggard, City Attorney
Memo

Date: October 9, 2014

To: Donn Lewis - Councilmember
Randy McKibbin – Councilmember
James Rackley - Councilmember

Cc: Don Morrison – City Administrator
Dan Grigsby – Public Works Director

From: Charles Simpson – Assistant Public Works Director

Re: Response to question at the October 7 CDC meeting concerning the purchase of Whitney Equipment Co. Flygt Motor and Pump (unit)

The City has chosen to outfit all of its sewer lift stations with Flygt pumps and valves since 1987. Currently, it is our Engineering specification and the City has 21 out of 23 lift stations outfitted with Flygt equipment. This allows the sewer crews to have uniformity and interchangeable parts on hand.

The existing equipment in the lift station is also manufactured by Flygt. However, since they were manufactured in the 1987 time frame, parts for this old equipment are no longer available. We will replace Flygt equipment with Flygt equipment. Use of other manufacturers, pumps /motors would possibly require a redesign of the rail system and discharge piping within the wet well.

Whitney Equipment is the only authorized dealership in the State of Washington to sell and service Flygt Pumps. Flygt pumps are not allowed to be sold by vendors in other states for use in our state.

Our working relationship with the Whitney Equipment Company has provided the City with valuable support concerning our sewer collection system, warranty work, repair work, and has provided a 10% discount on our purchases through them.
1. **Why not get bids from another supplier for the Flygt equipment ... Oregon, Idaho, etc.**

   The Municipal Contract Whitney Equipment has as the supplier of Flygt equipment makes them the sole supplier for Washington State. They are not allowed to bid/sell Flygt products outside of Washington, and outside representatives are not allowed to bid/sell Flygt products in Washington.

2. **What is the price for competitive equipment from other manufacturers?**

   Competitive equipment would not be compatible with the existing Flygt equipment. To replace the existing equipment with competitive equipment may require major modifications to the lift station and its components.

3. **Where is this equipment coming from?**

   Flygt equipment is manufactured in Sweden and Denmark and is shipped to the vendors for distribution. Most of the major wastewater pumps are manufactured in Europe with some being assembled in the U.S. According to the representative, the steel could be produced in the U.S., shipped to Europe for manufacturing, and then sent back to the U.S. for final assembly. This process adds 50-100% to the overall cost of the equipment.

4. **Is the equipment already sitting on a shelf in a warehouse or will it need to be manufactured. Can we get this equipment before the end of the fiscal year to avoid using next year's budget?**

   Some of it is already manufactured, but some of the components are customized to the users’ specifications. Our existing equipment is approaching 30 years of age and typically is only produced when ordered. The equipment can be made and delivered before the end of the fiscal year if it is ordered by the first week in November. It also needs to be sent by air to arrive in the U.S. before the end of fiscal year 2014.

5. **Why is air shipment needed? Does all the equipment need to be shipped by air or can some or all of it be shipped by ground as indicated in the vendor’s proposal?**

   Given that the equipment is manufactured in Sweden, the timeliest method is air freight. The timeframe from order to delivery by air freight is 1-3 weeks (3 weeks being the most probable given Customs and Holidays) as opposed to shipping via ocean and ground which is 6-8 weeks minimum. We currently are without one of the check valves in operation which limits lift station ability to discharge, and another that the check ball does not seat properly so there is back seepage thus the need to get it here ASAP.

6. **Is the current equipment part of originally installation of the late 80’s when the sewer system was built? What is the normal life expectancy for this type of equipment?**

   The check balls and housing are original, but the pumps were replaced in 2005. This included the impellors and volutes. There have been repairs and minor replacements since the original construction. The normal life expectancy for the different components is 10 years for the new impellors and 5-7 years for the older ones which have been replaced twice. The improvements made to the volutes and ball check housing should make them last indefinitely, and the check balls don’t currently have an estimated life expectancy due to variable conditions.
October 1, 2014

To: Don Morrison – City Administrator
    Dan Grigsby – Public Works Director

From: Charles Simpson – Assistant Public Works Director

Re: Sole source – Whitney Equipment Co.


Scope of Work:
This sole source purchase from Whitney Equipment Company, will replace three obsolete 10” check valves, two volutes, and two impellers. Currently we have one check valve that is not operational and one ball in a check valve that does not seal.

- There are four check ball assemblies and housings inside Lift Station #17 that prevent backflow from the force main and water hammer from occurring. The housings and the check balls have a very tight tolerance. The balls have a rubberized coating and a specific weight. The existing housings and balls are obsolete (the housings have not been manufactured for over 20 years) and the coatings on the balls are failing. The new balls are lighter and require a new housing. We currently experience a life expectancy of 7-10 years before the ball needs replacement. Due to the tight tolerances, it is not possible to have the current ones recoated. We replaced one ball and housing approximately 5 years ago due to the housing failing (we attempted to repair the housing but it continued to fail necessitating replacement). We have maintained an inventory of spare check balls for replacement purposes, but have depleted that inventory.
- A defect in the original factory castings has resulted in a cavitation issue that damages the volute and the impeller. Two volutes and impellers have been replaced. This only occurred after a Flygt engineer suggested coating the inside of the volutes with a porcelain coating. This coating has not been effective in preventing failure of the volutes, therefore, the remaining volutes and impellers need to be replaced.

Exclusive Capability: The City has chosen to outfit all of its sewer lift stations with Flygt equipment since 1987. This allows the sewer crews to have uniformity and interchangeable parts on hand. Whitney Equipment is the only authorized dealership in the State of Washington to sell and service Flygt Pumps. Other manufactured pumps would possibly require a redesign of system and discharge piping within the wet well.
# Quote

**Whitney Equipment Company, Inc.**

**Corporate Office**
Whitney Equipment Company  
21222 30th Drive SE  
Suite 110  
Bothell WA 98021  
United States

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**Quote #:** 40521  
**Quote Date:** 09/30/14  
**Quote Expires:** 10/30/14  
**Customer #:** BONN CI  
**Ship To:** City Of Bonney Lake  
19306 Bonney Lake Blvd E  
PO Box 7380  
Bonney Lake, WA 98391-8850

**Phone:** (253) 862-8602  
**Fax:** (253) 862-8538  
**Contact:**  
**Ship Via:** AIR FREIGHT-Air Freight  
**FOB:**

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**RE-STOCKING FEE FOR INCORRECT ORDER 33596**

| Sub-Total:          | 40,877.00 |
| Misc. Charges:      | 0.00      |
| Freight:            | 0.00      |
| Tax:                | 3,597.18  |
| **Total:**          | 44,474.18 |

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**Lead-time:**
- 1-3 weeks air-freight - est. cost: $3600
- 6-8 weeks ocean/ground - est. cost: $1050

Shipping charges are pre-pay and add
City of Bonney Lake
City Council Agenda Bill (AB)

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<td>Resolution</td>
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<td>DONN LEWIS</td>
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**Agenda Subject:** Purchase Check Valve, volutes, and Impellers for Lift Station #17

**Full Title/Motion:**
A Resolution Of The City Council Of The City Of Bonney Lake, Pierce County, Washington, Authorizing The Purchase From Whitney Equipment Company Of Check Valves, Volutes And Impellers For Sewer Lift Station #17.

**Administrative Recommendation:** Recommend Approval

**Background Summary:** This sole source purchase from Whitney Equipment Company, will replace three obsolete 10" check valves, two volutes, and two impellers. There are four check ball assemblies and housings inside Lift Station #17 that prevent backflow from the force main and water hammer from occurring. The housings and the check balls have a very tight tolerance. The balls have a rubberized coating and a specific weight. The existing housings and balls are obsolete (the housings have not been manufactured for over 20 years) and the coatings on the balls are failing. The new balls are lighter and require a new housing. We currently experience a life expectancy of 7-10 years before the ball needs replacement. Due to the tight tolerances, it is not possible to have the current ones recoated. We replaced one ball and housing approximately 5 years ago due to the housing failing (we attempted to repair the housing but it continued to fail necessitating replacement). We have maintained an inventory of spare check balls for replacement purposes, but have depleted that inventory. • A defect in the original factory castings has resulted in a cavitation issue that damages the volute and the impeller. Two volutes and impellers have been replaced. This only occurred after a Flygt engineer suggested coating the inside of the volutes with a porcelain coating. This coating has not been effective in preventing failure of the volutes, therefore, the remaining volutes and impellers need to be replaced. An air-shipping charge of $3,600 will also be paid to assure a timely arrival for the immediate replacement.

**Attachments:** Resolution 2424, Sole Source justification, Whitney quote for purchase.

**BUDGET INFORMATION**

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**Budget Explanation:** Budget funds will be taken from Sewer Maintenance Budget line items 402.000.035.535.50.48.03 R&M Replacement & Unscheduled Projects Operating Capital - $50,000 402.000.035.535.50.48.06 Sewer Lift Station Improvements Operating Capital - $16,000

**COMMITTEE, BOARD & COMMISSION REVIEW**

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<td></td>
<td>Councilmember</td>
<td>RANDY MCKIBBIN</td>
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Rev, January 2014
COUNCIL ACTION

Workshop Date(s):
Meeting Date(s):
Public Hearing Date(s):
Tabled to:

APPROVALS

Director: Mayor: Date Reviewed by
dan grigsby, p.e. neil johnson jr. city attorney:

Rev. January 2014