



**To:** City Council

**From:** Danny Paul, Public Works Director

**CC:** Carl Ray, Water & Wastewater Director

**Date:** October 28, 2025

**Re:** Sole Source Justification for 10<sup>th</sup> and Legion Pump Station Pump Replacement

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The city's current policy does not address sole sourcing when a commodity is desirable to achieve standardization and compatibility with existing equipment to satisfy a critical operational need. The Water Department has a budget of \$45,000 for the purchase and installation of one new pump for the 10<sup>th</sup> and Legion Pump Station. There are no state or federal funds associated with the project. This memorandum serves to justify the sole source procurement of one Durco pump manufactured by Flowserve and to seek approval from City Council to authorize the sole source purchase of the requested pumps.

The pumps are required to support ongoing operations at the pump station where system compatibility, performance reliability, and service continuity are essential. The current pumps were purchased and installed in early 1980's and replacement parts for them or new pumps have become obsolete. One of the pumps has become inoperable and requires parts that are no longer available. The pumps in the station are Worthington D1012's. Flowserve acquired the materials to reproduce the exact pump but has since discontinued that offering. Flowserve manufactures a Durco pump that is hydraulically equivalent and only slightly dissimilar dimensionally making it the most direct replacement available.

The new pumps must meet the following requirements:

- Drinking water compatible materials
- Similar pump curve
- Close as possible dimensionally to allow for minimal piping changes
- Compatibility with existing pump controls
- Local service support and access to spare parts
- Within budget

Based on technical and operational requirements, Flowserve's Durco pump is the only known pumping system that meets the unique needs of the pump station due to uniqueness, compatibility and standardization. The Water Department already has two



Flowserve pumps in the system, staff are experienced in operating and maintaining this manufacturers' pumps, and the Flowserve pumps in operation have met or exceeded the required performance.

**Justification:**

1. **Uniqueness:** To limit the scope of the project the selected pumps must integrate seamlessly with existing infrastructure (piping, control units, SCADA, etc.). Selecting a pump brand solely on a low bid process could require significant retrofit modifications and added cost.
2. **Compatibility:** The selected pump will operate under the same conditions as two other existing pumps, needs to fit into the existing pipe gallery, and needs to have similar hydraulic performance.
3. **Sole Manufacturer and Local Support:** Flowserve acquired the Worthington pump records and has been manufacturing direct replacements or pumps similar to those originally manufactured by Worthington. They provide factory installation assistance, startup, and service support through their authorized representative.
4. **Operational Continuity and Standardization:** Using a pump with dissimilar hydraulics would compromise system standardization. If additional pumps are needed, we would be able to standardize on the Durco pump

A review of alternative pump manufacturers (e.g., KSB, Grundfos, Sulzer) confirmed that no other vendor offers a pump with full compatibility and the required performance standards. Flowserve pumps are the only viable option that avoids costly modifications and ensures long-term service and continuity.

The estimated cost of the Flowserve pump, including ancillary equipment and support services, is under \$45,000 for the pump assembly. This includes delivery, installation assistance, warranty, and commissioning support.

If the Flowserve pump cannot be procured, and a competitive low bidding process is followed, the pump station may face extended downtime due to infrastructure retrofit work, increased installation and training costs, risk of operational failure due to unproven component compatibility, and deviation from standardized equipment.

Given the technical requirements, proprietary features, and sole source nature of the Durco pump from Flowserve, I recommend approval of this sole source procurement. This memorandum demonstrates that the Flowserve pump is desirable due to its Uniqueness, Compatibility, Standardization, and is in the best interest of the City of Craig and protecting its Water Department assets.



**To:** City Council

**From:** Danny Paul, Public Works Director

**CC:** Carl Ray, Water & Wastewater Director

**Date:** October 28, 2025

**Re:** Sole Source Justification for Lift Station Replacement Pump

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The city's current policy does not address sole sourcing when a commodity is desirable to achieve standardization and compatibility with existing equipment to satisfy a critical operational need. The Wastewater Department has a budget of \$16,000 for the purchase of one new Lift Station Pump to serve as a spare for either the Burrows Lift Station or the KOA Lift Station. There are no state or federal funds associated with the project. This memorandum serves to justify the sole source procurement of one new Flygt pump manufactured by Xylem Inc. and to seek approval from City Council to authorize the sole source purchase of the requested pumps.

The pump is required to support ongoing operations at lift stations where system compatibility, performance reliability, and service continuity are essential. The current pumps were purchased and installed in the early 1980's and have had only minor failures, but will eventually have a major failure and need to be replaced. The lift stations are designed for two pumps and if one fails the station would no longer be able to maintain design capacity. Having a spare pump on hand is critical to prevent sanitary sewer overflows and potential violations.

The new pumps must meet the following requirements:

- High-efficiency, non-clog impeller design
- Continuous duty rated motor
- Compatibility with existing pump control panels and mounting rails
- Local service support and access to spare parts
- Within budget

Based on technical and operational requirements, Xylem's Flygt pumps are the only known pumping system that meets the unique needs of the lift stations without making modifications. The Wastewater Department already has many Flygt pumps throughout the system, staff are experienced in operating and maintaining this manufacturers' pumps, and



all the Flygt pumps in operation have met or exceeded the typical useful life with replacement parts still available.

Justification:

1. **Technical Compatibility:** To limit the scope of the project the selected pumps must integrate seamlessly with existing infrastructure (rails, guide systems, control units, SCADA, etc.). Selecting a pump brand solely on a low bid process could require significant retrofit modifications and added cost.
2. **Proprietary Design and Performance:** Xylem's Flygt pumps incorporate proprietary N-technology, which provides self-cleaning hydraulic performance and superior energy efficiency. These features are not offered in competitor products to the same standard or reliability.
3. **Sole Manufacturer and Local Support:** Xylem, Inc. is the original equipment manufacturer of Flygt pumps and the sole source for these proprietary units. They provide factory authorized installation assistance, startup, and service support through their authorized representative.
4. **Operational Continuity and Standardization:** Using a non-Flygt pump would compromise system standardization, require additional staff training, and increase spare parts inventory leading to higher lifecycle costs and potential downtime during critical operations.

A review of alternative pump manufacturers (e.g., KSB, Grundfos, Sulzer) confirmed that no other vendor offers a pump with full compatibility and the required performance standards. Flygt pumps are the only viable option that avoids costly modifications and ensures long-term service and continuity.

The estimated cost of the Flygt pump, including ancillary equipment and support services, is under \$16,000. This includes delivery, installation assistance, warranty, and commissioning support.

If the Flygt pump cannot be procured, and a competitive low bidding process is followed, the lift stations may face extended downtime due to infrastructure retrofit work, increased installation and training costs, risk of operational failure due to unproven component compatibility, and deviation from standardized equipment.

Given the technical requirements, proprietary features, and sole source nature of the Flygt pumps from Xylem Inc., I recommend approval of this sole source procurement. This memorandum demonstrates that the Flygt pumps are desirable due to their Uniqueness, Compatibility, Standardization, and is in the best interest of the City of Craig and protecting its Water Treatment Plant assets.