



## Legislation Text

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Resolution Authorizing the Sole Source Purchase of Two Single Stage Blowers for the T.Z. Osborne Water Reclamation Facility 56 MGD Upgrade Project

Department: Water Resources  
Council District: 2

Public Hearing: N/A  
Advertising Date/By: N/A

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### **PURPOSE:**

Water Resources requests approval to sole source the purchase of two Single Stage Blowers from Siemens Energy, Inc. located in Houston, Texas. City Council approval is required to sole source a purchase under State Public Contracting Statute GS 143-129 (e)(6). In this case, the sole source option was chosen because this was the only technology that meets the treatment plant operational performance standard, and is compatible with the existing plant process.

### **BACKGROUND:**

Siemens Energy, Inc. is a company out of Houston, Texas that has developed an innovative way to provide high volume process air needs for aeration basins and other wastewater processes. One of the benefits of single stage blowers is that the blower provides the air at a higher efficiency than a traditional multi stage blower. The proposed blowers are expected to reduce the aeration energy consumption by 15 percent compared to multi stage blowers.

Water Resources Water Reclamation Division has used multi stage blowers at T. Z. Osborne Water Reclamation Facility (WRF) since it was placed in service in 1984. Three of the current multi stage blowers were in the original plant construction and one more multi stage blower was added during the 30 Million Gallons per Day (MGD) upgrade in 1997. Two new blowers will replace two of the multi stage blowers from the original installation providing the process air needed for the 56 MGD upgrade at T. Z. Osborne WRF. The two Single Stage Blowers will be installed as part of package 2 construction project for the 56 MGD upgrade at T. Z. Osborne WRF.

It is recommended that the single-stage blowers manufactured by Siemens (formerly Turblex) be sole sourced due to the following reasons. Siemens is the only reputable manufacturer of single-stage centrifugal blowers that has been engaged in and actively supports the North American municipal wastewater market for more than the past three years. Siemens has had extensive experience with projects of similar or greater capacity than the Greensboro WRF Expansion Project. There are multiple US installations of the model proposed for Greensboro.

The City has received a quote for the two Single Stage Blowers for \$1,780,000. The City's design engineer

also reviewed similar bids for similar projects, and the price given is comparable.

**BUDGET IMPACT:**

Funds are budgeted in the following Water Resources Capital Improvements Fund account: 515-7056-02.6019 A14106.

**RECOMMENDATION / ACTION REQUESTED:**

The Water Resources Department recommends and requests that City Council approve the sole source purchase of two Single Stage Blowers from Siemens Energy, Inc. in the amount of \$1,780,000.