ITEM #: 17
DATE: 9/08/09

COUNCIL ACTION FORM

SUBJECT: NEW PUMPS AT WATER POLLUTION CONTROL PLANT

BACKGROUND:

Currently, there are 14 pumps at the Water Pollution Control Plant—six in the raw water pump station and eight in the trickling filter pump station. These pumps are 18 years old, and all are scheduled for replacement over five years according to the 2008-2013 Capital Improvements Plan (CIP). Last year, purchase of two raw water pumps was approved in the first year of the project. In July, a request for bids was issued to replace three pumps; but as noted in the bid documents, the City would decide which three pumps to replace at the time of contract award. Prices provided from the manufacturer are unit prices for each different pump. The bid alternate requests that the manufacturer provide a premium efficiency motor for the pumps.

Bids were received July 30, 2009 as follows:

Raw Water Vertical Turbine Solids-handling Pump

Base Bid – High-efficiency Motor		*Bid Alternate - NEMA Premium™ Motor*	
BIDDER	**UNIT COST, $**	**BIDDER**	**UNIT COST, $**
Flowserve Pump Division	59,382.00	Flowserve Pump Division	No Bid
Fairbanks Morse	94,133.00	Fairbanks Morse	94,633.00

First-stage Trickling Filter Vertical Turbine Solids-handling Pump

Base Bid – High-efficiency Motor		*Bid Alternate - NEMA Premium™ Motor*	
BIDDER	**UNIT COST, $**	**BIDDER**	**UNIT COST, $**
Flowserve Pump Division	54,873.00	Flowserve Pump Division	No Bid
Fairbanks Morse	85,998.00	Fairbanks Morse	86,498.00

Second-stage Trickling Filter Vertical Turbine Solids-handling Pump

Base Bid – High-efficiency Motor		*Bid Alternate - NEMA Premium™ Motor*	
BIDDER	**UNIT COST, $**	**BIDDER**	**UNIT COST, $**
Flowserve Pump Division	62,786.00	Flowserve Pump Division	No Bid
Fairbanks Morse	103,268.00	Fairbanks Morse	103,768.00

The 2009-2014 CIP includes $240,000 for pump replacement in each of the four remaining years of the project. The CIP planned for three pump replacements each year at $80,000 each. There are four pumps in the first-stage wet well in the trickling

filter building, and all four have had significant problems. Although the CIP intended to replace only three pumps, there are advantages to having like-brand equipment in a single location. If all the pumps are identical, routine maintenance is less complicated; parts can be interchanged between the pumps; and it allows for better process control. The prices Flowserve provided allow for the purchase of four first-stage pumps while still remaining within the budget. Staff recommends replacing all four first-stage pumps at this time at a cost of $219,492. Because these new pumps are similar to the existing pumps, WPC Plant staff will install the new equipment upon arrival.

ALTERNATIVES:

1. Award the bid to Flowserve Pump Division of Taneytown, Maryland to purchase four first-stage vertical turbine solids-handling pumps at a total cost of $219,492.00.

2. Do not award a contract at this time.

MANAGER'S RECOMMENDED ACTION:

The existing pumps are 18 years old and are in need of replacement to keep the Water Pollution Control Plant functioning at full capacity. The need for an orderly replacement was planned for in the Capital Improvements Plan. It is also a priority of the City to use cost-effective, energy-efficient technology wherever appropriate in following the Cool Cities initiative. While the alternate for premium motors was not selected, the new pumps will have high-efficiency motors which are an improvement over the 18-year-old motors.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, thereby awarding the bid to Flowserve Pump Division for four first-stage vertical turbine solids-handling pumps at a total cost of $219,492.00.