

BOARD MEETING DATE: May 4, 2018

AGENDA NO. 14

PROPOSAL: Issue Purchase Order for High Efficiency HVAC Valves

SYNOPSIS: SCAQMD Air Handlers 1, 2, 10 and 14 were retrofitted with energy efficient fan wall technology in FY 2016-17. The existing temperature control valves do not operate with sufficient precision to minimize temperature fluctuations. The upgrade to Belimo ePIV valves will provide significant energy savings through optimized temperature controls. This action is to authorize the Executive Officer to issue a purchase order for HVAC valves with Emcor Services for an amount not to exceed \$32,000 from the Infrastructure Improvement Fund (02).

COMMITTEE: Administrative, April 13, 2018; Recommended for Approval

RECOMMENDED ACTION:

Authorize the Executive Officer to issue a purchase order with Emcor Services for an amount not to exceed \$32,000 from the Infrastructure Improvement Fund (02) to provide and install high efficiency HVAC valves.

Wayne Natri
Executive Officer

AJO:BJ:lm

Background

SCAQMD Air Handlers 1, 2, 10, and 14 were retrofitted with energy efficient fan wall technology in FY 2016-17. The current water control valves use constant actuation and flow response to moderate water flow used for building temperature control of comfort air. Upgrading the temperature control mechanism will better maximize the cost savings and energy usage rate of the building's HVAC system.

Proposal

Staff recommends authorization for the Executive Officer to issue a purchase order with Emcor Services to provide and install Energy Pressure Independent Valve for Air Handlers 1, 2, 10, and 14 at SCAQMD Diamond Bar Headquarters. The addition of Belimo ePIV valves will provide increased efficiency by eliminating the need for constant balancing within the system and will result in significant energy savings from

elimination of wasteful cooling overflow by each air handler. The proposed new valves will also maintain precise and constant flow for a more consistent ambient temperature for each floor.

Sole Source Justification

Section VIII.B.2 of the Procurement Policy and Procedure identifies circumstances under which a sole source purchase award may be justified. This request for a sole source award is made under provision VIII.B.2.d(6): The project requires compatibility with existing specialized equipment. The refurbishment of the PACE air handlers was completed by EMCOR. The operation of the Belimo ePIV valves must share control with the equipment originally installed by EMCOR.

Resource Impacts

Sufficient funds are available in the Infrastructure Improvement Fund (02) for this project.