



- **Board of Directors**  
***Engineering, Operations, and Technology Committee***

10/8/2024 Board Meeting

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7-1

## Subject

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Award a \$589,957 procurement contract to Vogt Valves for one sleeve valve to be installed at the Red Mountain Pressure Control Structure in the Skinner service area; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

## Executive Summary

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The Red Mountain Pressure Control Structure (PCS) contains two 42-inch diameter sleeve valves, which are used to control the flow and pressure in San Diego Pipeline No. 5 (SDPL5) when the adjacent power plant is offline. The existing valves have been in continuous service for over 40 years. One of the two valves was refurbished by Metropolitan staff in 2022. During a recent inspection, it was determined that the second valve has deteriorated to the point that it cannot be refurbished and consequently needs to be replaced.

This action awards a \$589,957 procurement contract to Vogt Valves for furnishing one 42-inch diameter sleeve valve to be installed at Red Mountain PCS by Metropolitan staff. See **Attachment 1** for the allocation of funds, **Attachment 2** for the Abstract of Bids, and **Attachment 3** for the Location Map.

## Proposed Action(s)/Recommendation(s) and Options

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### Staff Recommendation: Option #1

#### Option #1

Award a \$589,957 procurement contract to Vogt Valves to furnish one 42-inch diameter stainless steel sleeve valve for the Red Mountain Pressure Control Structure.

**Fiscal Impact:** Expenditure of \$800,000 in capital funds. All costs will be incurred in the current biennium and have been previously authorized.

**Business Analysis:** This option will enhance the operational reliability of water deliveries in the Skinner service area.

#### Option #2

Do not proceed with the project at this time.

**Fiscal Impact:** None

**Business Analysis:** This option would forego enhancing the reliability of service in the Skinner service area.

## Alternatives Considered

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Staff considered refurbishing the existing 42-inch diameter sleeve valve in a similar fashion to the first valve that was successfully refurbished. However, upon inspection, it was determined that the valve had deteriorated to the point that refurbishment was no longer a cost-effective alternative. The observed deterioration to the valve consisted of cracks to the valve cover, inner and outer valve body, severely worn bearings, and misalignment of the operator stem housing. The selected option to procure and install a new valve will improve operational flexibility within the Skinner service area.

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## Applicable Policy

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Metropolitan Water District Administrative Code Section 8121: General Authority of the General Manager to Enter Contracts

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

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## Related Board Action(s)/Future Action(s)

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By Minute Item 53598, dated April 8, 2024, the Board appropriated a total of \$636.48 million for projects identified in the Capital Investment Plan for Fiscal Years 2024/2025 and 2025/2026.

By Minute Item 53278, dated June 13, 2023, the Board authorized the upgrades to the Auld Valley and Red Mountain Control Structures.

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## California Environmental Quality Act (CEQA)

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### CEQA determination for Option #1:

On June 13, 2023, the Board approved upgrades to the Red Mountain Control Structure, and the General Manager determined the project to be exempt from CEQA pursuant to Sections 15301, 15302, and 15306 of the State CEQA Guidelines. The current board action does not result in any substantial change to the project. Accordingly, no further CEQA determinations or documentation are necessary.

### CEQA determination for Option #2:

None required

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## Details and Background

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### Background

SDPL5 begins at Lake Skinner and extends approximately 18 miles south to the delivery point in San Diego County. The pipeline is 96 inches in diameter with both prestressed concrete and welded steel pipe sections. It supplies up to 500 cfs of untreated water to the San Diego County Water Authority.

Flows in SDPL5 are regulated at the Red Mountain PCS or the adjacent hydroelectric power plant. The power plant may be taken offline if the pipeline flow is higher or lower than the turbine's operating range, for routine maintenance, or due to a power utility outage. In these cases, flow is regulated at the Red Mountain PCS. The Red Mountain PCS was constructed in 1981 and includes two 66-inch diameter pipes, which are each fitted with 42-inch diameter sleeve valves. These valves are used to reduce pressure and regulate flows within the pipelines.

An inspection of the PCS found that the two sleeve valves have extensive wear and tear and require rehabilitation. The first sleeve valve at the Red Mountain PCS was refurbished under the Minor Capital Program in 2022. The second valve was discovered to be structurally compromised. Staff attempted to repair the valve, but the deterioration was beyond repair. Since the PCS does not include isolation valves on either side of the sleeve valves, isolation bulkheads were installed so that the operation of the Red Mountain PCS could resume. When a valve is removed and the bulkheads are installed, the PCS can only operate at reduced flow rates. Currently, the Red Mountain PCS is only able to operate at one-half capacity until the new valve is installed.

In June 2023, Metropolitan's Board amended the Capital Investment Plan for Fiscal Years 2022/2023 and 2023/2024 to include replacement of the severely deteriorated valve with a new valve at the Red Mountain PCS. Specifications for the fabrication of the sleeve valve have been completed, and staff recommends the award of a procurement contract at this time.

### Red Mountain Pressure Control Structure Upgrades – Procurement and Installation

The scope of the procurement contract includes furnishing one 42-inch diameter sleeve valve, its actuator, associated fittings, and accessories. Metropolitan forces will receive, offload, and place the valve in storage at Metropolitan's Lake Skinner Yard.

A total of \$800,000 is required to perform this work. In addition to the amount of the procurement contract described below, the allocated funds for Metropolitan staff include \$69,300 for factory fabrication inspection and functional testing; \$45,000 for submittals review and responding to manufacturer requests for information; \$67,000 for contract administration and project management; and \$28,743 for remaining budget.

**Attachment 1** provides the allocation of the required funds.

#### ***Award of Procurement Contract***

Specifications No. 2098 for furnishing one stainless steel sleeve valve for the Red Mountain PCS was advertised for bids on April 30, 2024. As shown in **Attachment 2**, three bids were received and opened on July 11, 2024. The bid from Vogt Valves in the amount of \$589,957 complies with the requirements of the specifications. This amount includes all sales and use taxes imposed by the state of California. The budgetary estimate for this material, based on a survey of vendors, ranged from \$570,000 to \$700,000.

This action awards a \$589,957 procurement contract to Vogt Valves to furnish one stainless steel sleeve valve for Red Mountain PCS. As a procurement contract, there are no subcontracting opportunities, and no Small Business Enterprise participation level was established for this contract.

#### ***Project Milestone***

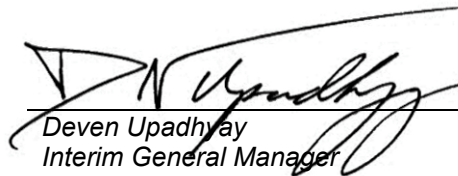
June 2025 – Delivery of 42-inch diameter sleeve valve



Mai M. Hattar  
Interim Chief Engineer  
Engineering Services

9/17/2024

Date



Deven Upadhyay  
Interim General Manager

9/18/2024

Date

**Attachment 1 – Allocation of Funds**

**Attachment 2 – Abstract of Bids**

**Attachment 3 – Location Map**

Ref# es12696031

**Allocation of Funds for Red Mountain Pressure Control Structure Upgrades**

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	<b>Current Board Action (Oct 2024)</b>
Labor	
Studies & Investigations	\$ -
Final Design	-
Owner Costs	67,000
Submittals Review & Record Drwgs.	45,000
Construction Inspection & Support	69,300
Metropolitan Force Construction	
Materials & Supplies	-
Incidental Expenses	-
Professional/Technical Services	-
Right-of-Way	-
Equipment Use	-
Contracts	-
Vogt Valves	589,957
Remaining Budget	28,743
<b>Total</b>	<b>\$ 800,000</b>

The total amount expended to date for the Red Mountain Pressure Control Structure Upgrades is approximately \$120,000. The total estimated cost to complete the work, including the amount appropriated to date, funds allocated for the work described in this action, and future construction costs, is anticipated to range from \$1 million to 1.25 million.

**The Metropolitan Water District of Southern California****Abstract of Bids Received on July 11, 2024, at 2:00 P.M.****Specifications No. 2098****Furnishing 42-inch Sleeve Valve for Red Mountain Pressure Control Structure**

The work includes furnishing and delivery of a 42-inch sleeve valve and actuator for the Red Mountain Pressure Control Structure.

<b>Bidder and Location</b>	<b>Base Bid Price Total<sup>1,2</sup></b>
<b>Vogt Valves Stafford, TX</b>	<b>\$589,957</b>
Sojitz Machinery Corporation of America Farmington, Hills	\$727,792
B&K Valves & Equipment Inc. Carlsbad, CA	\$3,344,948

<sup>1</sup> As a procurement contract, there are no subcontracting opportunities.

<sup>2</sup> Includes sales and use taxes of 7.75 percent imposed by the state of California

