

MEMORANDUM

TO: SLDMWA Planning Committee Members

FROM: Pablo Arroyave, Chief Operating Officer

DATE: October 7, 2024

RE: Confirmation of Cost Allocation Methodology for Jones Pumping Plant Excitation

and Control Modernization Project and O'Neill Pumping-Generating Plant (OPP) Upgrades Project and Recommendation to Approve Cost Allocation Methodology

for O'Neill Transformer Replacement Project

BACKGROUND

The 2021 Bipartisan Infrastructure Law (BIL) authorized \$3.2 billion for extraordinary maintenance (XM) of U.S. Bureau of Reclamation (Reclamation) facilities. These funds are available to both reserved and transferred works facilities and will be administered through the Aging Infrastructure Account, a Reclamation-wide revolving fund created to sustain investment in Extraordinary Maintenance. Consistent with Finance & Administration Committee (FAC) recommendation and Board of Directors (BOD)approval received in November 2022, the Water Authority submitted a BIL application in December 2022 for the Jones Pumping Plant Excitation and Control Modernization Project and was awarded \$25 million for the project. Based on FAC recommendation and BOD approval received in November 2023, the Water Authority submitted a BIL application for the O'Neill Pumping-Generating Plant (OPP) Upgrades Project in December 2023 and was subsequently awarded \$11.6 million for this project.

The Water Authority executed a repayment contract for the JPP Excitation and Control Modernization Project with Reclamation in July 2024. This project will begin in 2025. No repayment contract negotiation process has started for the OPP Upgrades Project. The Water Authority is hopeful that more BIL funding will be made available for this project as a result of the additional BIL funding application the Water Authority submitted for this project in July 2024.

In addition to the above two ongoing projects, the four transformers at O'Neill Pumping-Generating Plant are beyond the end of their service life and are scheduled to be rehabilitated in 2025. However, the rehabilitation of the transformers is only expected to extend the service life of the transformers by approximately five years. The current cost estimate--which will be refined-for planning, design, manufacturing and installation of 4 replacement transformers is approximately \$35 million. The lead time to design and fabricate the four new single-phase transformers (including the spare) and protection system that provides the 4,160 Volt primary service to the 6-6,000 HP pump motors at the plant is approximately 5-years. The Water

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Authority intends to apply for BIL funding in the next application cycle which is expected in March 2025.

ISSUE FOR DECISION

Whether the Planning Committee should confirm the cost allocation methodology for the Jones Pumping Plant Excitation and Control Modernization Project and the O'Neill Pumping-Generating Plant (OPP) Upgrades Project and recommend approval of the cost allocation methodology for the O'Neill Transformer Replacement Project.

RECOMMENDATION

Water Authority staff recommends the Planning Committee confirm the cost allocation methodology for the Jones Pumping Plant Excitation and Control Modernization Project and the O'Neill Pumping-Generating Plant (OPP) Upgrades Project and recommend approval of the cost allocation methodology for the O'Neill Transformer Replacement Project as proposed.

ANALYSIS

The Jones Pumping Plant and O'Neill Pumping-Generating Plant (OPP), along with the Delta-Mendota Canal, are the critical facilities required to deliver agricultural, municipal and industrial and refuge water supplies to all Water Authority members and therefore must be able to operate efficiently and effectively into the future. Because these facilities are 60-70 years old, these projects are extremely important to the continued operation of the CVP.

Implicit in the Board of Director's action to authorize execution of the repayment contract for the JPP Excitation and Control Modernization Project was an assumption that the "standard" cost allocation methodology (based on OM&R water rates and location of delivery) will apply. Similarly, Board action and direction related to the OPP Upgrades Project has also assumed the standard cost allocation methodology will apply. This methodology assumes all contractors that pay Upper Cost Pool and O'Neill Cost Pool charges (respectively) will share costs and benefits for the projects consistent with their proportional deliveries. Since the Planning Committee, whose charge is to make cost allocation methodology recommendations, did not exist when actions were initially taken relating to these large extraordinary OM&R projects, staff is seeking Planning Committee concurrence now.

Relative to the planned O'Neill Transformer Replacement Project, for which staff intends to seek BIL funding in 2025, staff is seeking a recommendation to the FAC to utilize the standard cost allocation methodology as it pursues a repayment contract (assuming award of BIL funds) and brings other actions to the BOD.

ATTACHMENT

1. FY 2026 SLDMWA EO&M Ten Year Plan

San Luis & Delta-Mendota Water Authority EO&M, Grant, Reserves & Capital Improvement Projects Ten Year Plan

| EO&M, Grant, Reserves & Capital Improvement Projects Ten Year Plan | | | | | | | | | | | | | |
|--|------------------------------------|----------------|---------|--------------|-------------|-------------|-------------|------------------|-----------|-------------|-------------|-------------|-------------------|
| EO&M# Project Title | <u>BIL</u> <u>List</u> Facility | Priority | 2026 | <u>2027</u> | <u>2028</u> | 2029 | <u>2030</u> | <u>2031</u> | 2032 | <u>2033</u> | <u>2034</u> | <u>2035</u> | 10 Yr |
| EXTRAORDINARY O&M PROJECTS | <u>r domty</u> | <u>i nonty</u> | 2020 | <u> 2021</u> | <u>2020</u> | <u>2020</u> | | oject Cost (x \$ | | 2000 | <u>2004</u> | 2000 | <u>Plan Total</u> |
| E2026001 DCI U1 & U2 Restoration and Plant Electrical Upgrades | ☐ DCI | B-3-a | 1,027.2 | | | | Loundtoarr | σ,σστ σσστ (π φ | 1,000) | | | | 1,027 |
| C1997002 O&M Road Maintenance Program | □ DMC | | 635.2 | | 736.5 | | 812.0 | | 895.2 | | | | 3,079 |
| C1994005 Warehouse Building (Design & Construction) | | B-4-c | 740.1 | | 700.0 | | 012.0 | | 033.2 | | | | 740 |
| E2015001 TFO/LBFO/DCI Arc Flash Study | ☐ ALL | A-1-b | 740.1 | 225.0 | | | | | 248.0 | | | | 473 |
| E2015002 Electrical Equipment Periodic Reviews - OPP | ONP | A-1-b | | 215.0 | | | | | 245.0 | | | | 460 |
| E2022005 Unit Protection Equipment & Control Board Replacement | | B-2-b | | 140.0 | 300.0 | 320.0 | 340.0 | | 243.0 | | | | 1,100 |
| E2019024 Station Service Backup Battery System Replacement | ✓ JPP | B-2-c | | 300.0 | 300.0 | 320.0 | 340.0 | | | | | | 300 |
| E2024005 Standby Generator Transfer Switch: Design & Construction | ONP | B-2-c | | 112.3 | | | | | | | | | 112 |
| | ✓ JPP | В-3-с | | | 000.0 | | | | | | | | |
| M2015003 Rehabilitate Coating on Pump Casings & Bifurcation M2017001 Shaft Sleeve Manufacturing | | | | 550.0 | 600.0 | | | | | | | | 1,150 |
| | ✓ ONP | B-4-b | | 315.0 | 325.0 | | | | | | | | 640 |
| M2019022 HVAC System Rehabilitation/Replacement | ✓ JPP | B-4-b | | 400.0 | | | | | | | | | 400 |
| M2019016 Siphon Breaker Valve Control System Rehabilitation | ✓ JPP | B-4-c | | 250.0 | NOTE | THE | 00T INE | DIATIO | NI ONI TI | | 4 D.E. | | 250 |
| M2019014 Stoplog Rehabilitation | ✓ JPP | B-5-b | | 500.0 | NOTE: | THE C | OST INFO | RMATIC | N ON IF | IIS PLAN | ARE | | 500 |
| M2019001 Bridge Crane Rehabilitation | ✓ ONP | B-5-c | | 200.0 | OUTD. | ATED AN | ND WILL E | BE UPDA | TED BY | FEBRUA | RY 28, 20 |)25 | 200 |
| M2019009 Flowmetering Improvements | ☐ DCI | B-5-c | | 100.0 | | | | | | | | | 100 |
| M2019026 Stoplog Rehabilitation (Lakeside) | ✓ ONP | | | 75.0 | | | | | | | | | 75 |
| M2019049 Lakeside & Canalside Trashrack Replacement | ✓ ONP | B-5-c | | 175.7 | | | | | | | | | 176 |
| M2014002 Rebalance Unit 5 Impeller | ☐ JPP | B-3-c | | | 305.0 | | | | | | | | 305 |
| C2019004 O&M Complex Pavement Rehabilitation | ✓ TFO | B-4-b | | | 250.0 | | | | | | | | 250 |
| C2022001 Retaining Wall Rehabilitation | ☐ JPP | B-5-b | | | 225.0 | | | | | | | | 225 |
| E2019025 Plant Security System Upgrades | ✓ JPP | B-5-c | | | 225.0 | | | | | | | | 225 |
| E2019030 Plant Security System Improvements | ✓ ONP | C-5-d | | | 109.0 | | | | | | | | 109 |
| C2016001 DMC Road Rehabilitation | ✓ DMC | B-4-b | | | | 391.0 | | | | | | | 391 |
| M2019025 100 Ton Gantry Crane Rehabilitation | ✓ JPP | B-4-c | | | | 450.0 | | | | | | | 450 |
| M2019043 HVAC System Rehabilitation/Replacement | ✓ ONP | B-4-c | | | | 100.0 | | | | | | | 100 |
| E2019010 Plant Flowmeter System Rehabilitation | ✓ ONP | B-5-c | | | | 244.0 | | | | | | | 244 |
| M2019033 Plant Roof Surface Replacement | ✓ ONP | B-7-c | | | | 100.0 | | | | | | | 100 |
| C1996012 Intake Channel Embankment Stabilization | ✓ DMC | B-3-b | | | | | 750.0 | | 2,500.0 | 2,500.0 | | | 5,750 |
| C2019001 Radial Gate Rehabilitation Program | ✓ DMC | B-3-c | | | | | 500.0 | 800.0 | 800.0 | 800.0 | 800.0 | 800.0 | 4,500 |
| C1996009 Gravel JPP Intake Channel Road | | B-4-c | | | | | 550.0 | | | | | | 550 |
| M2019015 Trashrack Cleaner Rehabilitation | ✓ JPP | B-4-c | | | | | 300.0 | | | | | | 300 |
| M2019045 Stub Shaft Crane Rehabilitation | ☐ JPP | B-4-c | | | | | 175.0 | | | | | | 175 |
| M2022003 Trashrack Cleaner & Stoplog Crane Rehabilitation/Automation | ✓ ONP | | | | | | 170.0 | 750.0 | | | | | 750 |
| M2022004 Check Structure Mech Equipment Rehab/Replacement Program | ✓ DMC | | | | | | 600.0 | 7 00.0 | | | | | 600 |
| C2019005 Penstock/Manifold Interior Coating Rehabilitation | ✓ DCI | B-5-b | | | | | 150.0 | | | | | | 150 |
| E2019019 Plant Security System Improvements | ✓ DCI | B-5-b | | | | | 50.0 | | | | | | 50 |
| M2019048 Plant Hydraulic System Rehabilitation/Replacement | ☐ JPP | B-5-c | | | | | 325.0 | | | | | | 325 |
| E2015003 Arc Flash Study - JPP | ☐ JPP | A-1-b | | | | | J2J.U | 200.0 | | | | | 200 |
| E2022003 Plant Protective Relay Replacement | ✓ JPP | B-2-b | | | | | | | | | | | 300 |
| | | | | | | | | 300.0 | | | | | |
| C2023003 Recoat Exterior of All Penstocks | ONP | B-4-c | | | | | | 500.0 | | | | | 500 |
| M2010001 Domestic/Potable Waterline Replacement | ☐ JPP | B-5-c | | | | | | 500.0 | 0=0.5 | 004.5 | .== - | | 500 |
| E2019001 Pump & Motor Rehabilitation | ✓ DCI | В-3-с | | | | | | | 259.0 | 264.0 | 275.0 | | 798 |

| und: 26 SL&DMWA Ten Year | | | | | O&M, Grant, | Reserves & | & Capital Imp | provement F | Projects) | | | | WORKING | BDRAFT |
|---|------------------------------------|----------------------|-----------|-----------|-------------|------------|---------------|-------------|-------------------|---------------|------------------|------------|-----------|---------------------|
| EO&M # Project Titl | е | BIL List Facility | Priority | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 10 Yr Plan Total |
| E2019015 Plant Motor Control Center Upgrades DCI | | | В-3-с | | | | | | | 200.0 | 153.0 | | | 353 |
| C2019002 Canal Embankment Erosion | Protection | ✓ DMC | B-4-b | | | | | | | 350.0 | | | | 350 |
| M2019008 Pump Intake Diffuser Panel | Rehabilitation/Replacement | □ DCI | B-4-c | | | | | | | 75.0 | | | | 75 |
| M2019035 Industrial Water Storage Ta | nk Rehabilitation | ☐ TFO | B-4-c | | | | | | | 125.0 | | | | 125 |
| M2019041 CA Turnout Slide Gate Reha | abilitation/Replacement | ✓ DCI | B-4-c | | | | | | | 150.0 | | | | 150 |
| E2019022 Plant Annunciator Moderniz | ation | ✓ DCI | B-5-b | | | | | | | 150.0 | | | | 150 |
| E2019031 Plant Annunciator Upgrades | | ✓ ONP | B-5-c | | | | | | | 450.0 | | | | 450 |
| M2008002 Cooling Water Line Replace | ment | ✓ JPP | B-4-b | | | | | | | | 400.0 | | | 400 |
| E1994007 Replace Station Service Bat | tery & Charger | ☐ JPP | B-4-c | | | | | | | | 141.0 | | | 141 |
| E2019006 Current & Potential Transfor | mer Rehabilitation | ☐ JPP | B-4-c | | | | | | | | | 250.0 | | 250 |
| E2009004 UPS Battery Replacement | | ✓ JPP | B-4-b | | | | | | | | | | 342.0 | 342 |
| M2019027 Siphon Breaker System Rehabilitation ✓ ONP B-4-c | | | B-4-c | | | | | | | | | | 200.0 | 200 |
| M2019036 Domestic Water System Storage Tank Rehabilitation TFO B-4-c | | | | | | | | | | | | 150.0 | 150 | |
| E2019011 UPS Battery Replacement ☑ ONP B-5-c | | | | | | | | | | | | 250.0 | 250 | |
| C2009003 Wasteway Capacity Restora | ition | ☐ DMC | C-5-c | | | | | | | | | | 75.0 | 75 |
| | FY TOTALS (x \$1,000): | | | \$2,402.5 | \$3,558.0 | \$3,075.5 | \$1,605.0 | \$4,552.0 | \$3,050.0 | \$6,447.2 | \$4,258.0 | \$1,325.0 | \$1,817.0 | |
| FUND 26 PROJECTS FY TOTALS (x \$1,000): | | | \$2,402.5 | \$3,558.0 | \$3,075.5 | \$1,605.0 | \$4,552.0 | \$3,050.0 | \$6,447.2 | \$4,258.0 | \$1,325.0 | \$1,817.0 | | |
| | | | | | | | | | FU | ND 26 10 Year | otal (x\$1,000): | \$32,090.2 | | |
| RESERVE PROJECTS | | | | | | | | Estimated P | roject Cost (x \$ | \$1,000) | | | | |
| S2024001 SCADA Replacement & Mo | dernization Program (Reserve Fund) | ✓ ALL | B-4-c | 337.1 | 498.9 | 451.7 | 372.9 | 301.7 | 262.6 | 221.9 | 297.2 | 166.2 | | 2,910 |
| V1999001 Heavy Equipment Replacen | nent Program (Reserve Fund) | ☐ ALL | B-5-b | 82.5 | 10.8 | 214.0 | 318.4 | 177.8 | 12.2 | 247.4 | 553.2 | 289.3 | 295.7 | 2,201 |
| V1999002 Vehicle Replacement Program (Reserve Fund) ALL B-6-c | | B-6-c | 491.3 | 337.1 | 128.2 | 157.0 | 442.2 | 216.0 | 223.8 | 116.3 | 180.5 | 183.9 | 2,476 | |
| C2011001 Facility Infrastructure Replacement/Rehabilitation Program ALL B-7-c | | 262.6 | 67.6 | 139.7 | 99.9 | 72.1 | 157.3 | 71.6 | 44.9 | 181.2 | 184.6 | 1,282 | | |
| E2000004 Replace Computer/Network Comm Equip (Reserve Fund) ALL C-6-b | | C-6-b | 546.5 | 261.7 | 290.6 | 251.5 | 283.9 | 293.6 | 325.7 | 285.6 | 271.6 | 279.3 | 3,090 | |
| C2023005 EO&M Program Management Services ALL C-6-c | | 550.0 | 550.0 | 550.0 | 550.0 | 550.0 | 550.0 | 550.0 | 550.0 | 550.0 | | 4,950 | | |
| FY TOTALS (x \$1,000): | | | | \$2,270.0 | \$1,726.1 | \$1,774.2 | \$1,749.7 | \$1,827.7 | \$1,491.7 | \$1,640.4 | \$1,847.2 | \$1,638.8 | \$943.5 | |
| | FUND 26 PROJECTS FY TO | \$2,270.0 | \$1,726.1 | \$1,774.2 | \$1,749.7 | \$1,827.7 | \$1,491.7 | \$1,640.4 | \$1,847.2 | \$1,638.8 | \$943.5 | | | |
| | | | | | | | | FU | ND 26 10 Year | Plan Grand To | otal (x\$1,000): | \$16,909.3 | | |

NOTE: THE COST INFORMATION ON THIS PLAN ARE OUTDATED AND WILL BE UPDATED BY FEBRUARY 28, 2025

| Fund: 25 | | Year Plan (EO&M, Grant, Reserves & Capital Improvement Projects) | | | | | | | | | | B DRAFT | |
|--|--|--|------------|------------|-------------|-------------------|------------|------------|---------------|-----------------|------------------|-------------|---------------------|
| EO&M # Project Title | | <u>BIL</u> <u>List</u> Facility Prio | ity 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 10 Yr Plan Total |
| SPECIAL FUNDED PROJECTS | | | | | Estimated P | roject Cost (x \$ | 31,000) | | | | | | |
| E2009005 Excitation System & Control Panel R | Refurbishment Project | ✓ JPP B-2 | c 5,873.3 | 5,000.0 | 5,000.0 | 5,000.0 | | | | | | | 20,873 |
| M2022001 Pump Bowl & Woodward Governor F | Replacement Program | ☐ ONP B-3 | b 8,321.6 | 5,715.2 | | 2,986.8 | 3,076.4 | 3,168.7 | | | | | 23,269 |
| C2015003 DMC Subsidence Correction Project | t | ✓ DMC B-3 | c 11,789.6 | 50,000.0 | 50,000.0 | 50,000.0 | 50,000.0 | 50,000.0 | 50,000.0 | 50,000.0 | 50,000.0 | 50,000.0 | 461,790 |
| C2025001 Floating Solar Project - 5 Year Pilot | Study | ☐ DMC B-5 | d 4,857.7 | 6,715.9 | 907.1 | 670.1 | 1,553.3 | | | | | | 14,704 |
| E2019005 Station Service SWBD & Breaker Re | eplacement | ✓ JPP B-2 | b | 1,500.0 | | 3,100.0 | 3,250.0 | | | | | | 7,850 |
| E2004002 Unit Rotor & Stator Rewind (All Units | <u>s)</u> | ✓ ONP B-3 | b 624.9 | | 5,070.0 | 5,222.1 | 5,378.8 | 5,540.2 | 5,706.4 | 5,877.6 | | | 33,420 |
| M2022002 Pump Assembly & Penstock Rehabil | litation Program | ✓ ONP B-3 | ·b | 2,005.6 | 2,065.8 | 2,127.7 | 2,191.6 | 2,257.3 | 2,325.0 | | | | 12,973 |
| E2022004 Switchgear Paralleling | | ✓ JPP B-3 | ·C | 2,500.0 | | | | | | | | | 2,500 |
| E2023002 Main Transformer Replacement Proj | <mark>ject</mark> | ✓ ONP B-3 | ·b | 1,700.0 | | 750.0 | 10,000.0 | 10,000.0 | 10,000.0 | | 3,000.0 | | 35,450 |
| C2015006 Replace DMC Althea Ave Bridge | | ✓ DMC B-4 | ·c | | 1,500.0 | 1,545.0 | | | | | | | 3,045 |
| C2015005 Replace DMC Russell Ave Bridge | | ✓ DMC B-4 | ·C | | | | 1,500.0 | 1,545.0 | | | | | 3,045 |
| C1994008 Dredge JPP Intake Channel | | ☐ JPP B-4 | ·C | | | | | | 500.0 | | 2,500.0 | | 3,000 |
| M2019030 Design & Install Forebay Trashrack 0 | Cleaner & Stoplog Hoist | ✓ ONP B-5 | ·d | | | | | | | 200.0 | | | 200 |
| | FY TOTA | ALS (x \$1,000): | \$31,467.1 | \$75,136.6 | \$64,542.9 | \$71,401.8 | \$76,950.1 | \$72,511.2 | \$68,531.4 | \$56,077.6 | \$55,500.0 | \$50,000.0 | |
| | FUND 25 PROJECTS FY T | OTALS (x \$1,000): | \$31,467.1 | \$75,136.6 | \$64,542.9 | \$71,401.8 | \$76,950.1 | \$72,511.2 | \$68,531.4 | \$56,077.6 | \$55,500.0 | \$50,000.0 | |
| | | | | | | | | FUI | ND 25 10 Year | Plan Grand To | otal (x\$1,000): | \$622,118.6 | |
| | | | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | |
| (EO | FISCAL YEAR GRAND TOTALS: (EO&M, Grant, Reserves & Capital Improvement | | | \$80,420.7 | \$69,392.6 | \$74,756.4 | \$83,329.8 | \$77,052.8 | \$76,619.0 | \$62,182.7 | \$58,463.8 | \$52,760.5 | |
| | (| | | | | | | 10 Year F | Plan Grand To | tal (x\$1,000): | \$671,118.1 | | |

Excitation System & Control Panel Refurbishment Project (BIL Application)

OPP Unit Rehabilitation Projects (BIL Application)

Project Meets Planning Committee Criteria

NOTE: THE COST INFORMATION ON THIS PLAN ARE OUTDATED AND WILL BE UPDATED BY FEBRUARY 28, 2025