

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: AUGUST 10, 2026

SUBJECT: BID NO. SUB-872 TRANSFORMERS PROCUREMENT TO DELTA STAR, INC, OF SAN CARLOS, CALIFORNIA, FOR THE HARVEY LYNN SUBSTATION EXPANSION PROJECT AND RIVERSIDE SUBSTATION BANK 6 ADDITION PROJECT IN THE AMOUNT OF \$14,878,322 WITH A CHANGE ORDER AUTHORITY OF 10% IN THE AMOUNT OF \$1,487,832, FOR A TOTAL NOT-TO-EXCEED AMOUNT OF \$16,366,154; BID NO. SUB-873 BREAKERS AND SERVICE TRANSFORMERS TO ONE SOURCE SUPPLY SOLUTIONS, OF SAN DIEGO, CALIFORNIA, FOR THE HARVEY LYNN SUBSTATION EXPANSION PROJECT AND RIVERSIDE SUBSTATION BANK 6 ADDITION PROJECT IN THE AMOUNT OF \$1,587,980, WITH A CHANGE ORDER AUTHORITY OF 10% IN THE AMOUNT OF \$158,798, FOR A TOTAL NOT-TO-EXCEED AMOUNT OF \$1,746,778; RIVERSIDE SUBSTATION BANK 6 ADDITION WORK ORDER NO. 2514855 FOR A TOTAL EXPENDITURE \$6,327,972 AND HARVEY LYNN SUBSTATION EXPANSION PROJECT WORK ORDER NO. 2616697 FOR A TOTAL EXPENDITURE \$14,042,000

ISSUES:

Consider awarding Bid No. SUB-872 Transformers Procurement to Delta Star, Inc, of San Carlos, California, for the Harvey Lynn Substation Expansion Project and Riverside Substation Bank 6, in the amount of \$14,878,322, with a change order authority of 10% in the amount of \$1,487,832, for a total not-to-exceed amount of \$16,366,154; Consider awarding Bid No. Sub-873 to One Source Supply Solutions, of San Diego, California, for the Harvey Lynn Substation Expansion Project and Riverside Substation Bank 6, in the amount of \$1,587,980 with a change order authority of 10% in the amount of \$158,798, for a total not-to-exceed amount of \$1,746,778; Approve Riverside Substation Bank 6 Addition Work Order No. 2514855 for a total capital expenditure of \$6,327,972, and approve Harvey Lynn Substation Expansion Project Work Order No. 2616697 for a total capital expenditure of \$14,042,000.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Award Bid No. SUB-872 Transformers Procurement to Delta Star, Inc, of San Carlos, California, for the Harvey Lynn Substation Expansion Project and Riverside Substation Bank 6 Addition Project, in the amount of \$14,878,322, with a change order authority of 10% in the amount of \$1,487,832, for a total not-to-exceed amount of \$16,366,154;
2. Award Bid No. Sub-873 to One Source Supply Solutions, of San Diego, California, Harvey Lynn Substation Expansion Project and Riverside Substation Bank 6 Addition Project, in

the amount of \$1,587,980, with a change order authority of 10% in the amount of \$158,798, for a total not-to-exceed amount of \$1,746,778;

3. Approve Riverside Substation Bank 6 Addition Work Order No. 2514855 for a total capital expenditure of \$6,327,972;
4. Approve Harvey Lynn Substation Expansion Project Work Order No. 2616697 for a total capital expenditure of \$14,042,000; and
5. Authorize the City Manager, or designee, to execute any documents necessary to effectuate the project described herein, as well as the ability to make minor non-substantive changes in alignment with all purchasing policies.

BACKGROUND:

Riverside Public Utilities' five-year Capital Improvement Plan includes the Riverside Substation Bank 6 Addition Project and the Harvey Lynn Substation Expansion Project. The Riverside project supports RPU's ongoing 4-kV to 12-kV conversion program. Both projects will improve electric system reliability, replace aging substation equipment, increase transformer capacity and contingency capability, and provide capacity for projected load growth.

Riverside Substation Bank 6 Addition Project

Riverside Substation provides electric service to approximately 10,000 customers and currently includes both 4-kV and 12-kV distribution facilities. The 4-kV distribution load is served by Transformers 1 and 2, which were installed in 1960, they have exceeded their expected service life and are in poor condition based on recent electrical testing.

To continue RPU's 4-kV to 12-kV conversion effort and retire aging 4-kV equipment, the load served by Transformers 1 and 2 must be transferred to 12-kV facilities. The existing 12-kV transformers at the Riverside Substation do not have sufficient available capacity to serve this load. A new 12-kV Transformer Bank 6 is needed before Transformers 1 and 2 and their associated switchgear can be retired.

The scope includes installation of a new 66-kV bay with two circuit breakers, and five 66-kV disconnect switches, a 12-kV transformer, a 12-kV switchgear lineup, related protection and automation upgrades, auxiliary equipment, and relocation of existing equipment as needed. The scope also includes replacing the distribution feeder getaways for the new switchgear, including new duct banks and cables.

Harvey Lynn Substation Expansion Project

Harvey Lynn Substation provides electric service to approximately 24,000 customers. The substation was commissioned in 1965, with Transformer Banks 1 and 2 installed as part of the original station construction. The station has since been expanded to include Transformer Banks 3, 4, and 5.

Several transformers at Harvey Lynn Substation are currently overloaded, and the station has limited contingency capacity during equipment outages or abnormal operating conditions. The station also has limited capacity to serve future load growth. Transformer Banks 1 and 2 and their associated switches are more than 60 years old, have reached the end of their useful life, and are in poor condition.

Replacement of Transformer Banks 1 and 2 in their existing locations is not feasible because current transformer and switchgear designs are larger than the available equipment positions. Harvey Lynn Substation is also located near the edge of RPU's electric system, where system ties are limited and load transfers to nearby substations are not feasible. As a result, a substation expansion is needed to replace aging equipment, add transformer capacity, and improve operating flexibility.

Harvey Lynn Substation also has four 66-kV subtransmission oil circuit breakers that have exceeded their design life. Replacement parts for these breakers are limited, and similar oil circuit breakers at other RPU substations have already been replaced.

The Harvey Lynn project will replace the existing oil circuit breakers with vacuum circuit breakers, expand the 66-kV ring bus, and provide positions for two new transformers to replace Transformer Banks 1 and 2. The two new transformers will add approximately 40 MW of capacity and provide four additional distribution circuit positions. The scope also includes replacing the distribution feeder getaways for the new switchgear, including new duct banks and cables. These improvements will address existing overloads, improve contingency capability, replace aging substation equipment, and provide capacity for future load growth.

DISCUSSION:

Power substation transformers and circuit breakers are specialized equipment with long manufacturing lead times. The procurement was combined for both projects to improve purchasing efficiency, support equipment standardization, and obtain more competitive pricing. Combining the procurement also allows staff to coordinate manufacturing, delivery, engineering, and construction sequencing across both projects. Any additional equipment procurements, construction contracts, testing, commissioning, or related work will be brought forward separately.



Typical Power Transformer



Typical 66kV Circuit Breaker



Typical Station Service Transformer

Purchasing Overview

On February 10, 2026, RPU released Informal Bid No. SUB-872 and invited six prospective bidders to submit bids through an informal procurement process for three substation power transformers. The procurement includes two 45 MVA transformers for the Harvey Lynn Substation Expansion Project and one 33 MVA transformer for the Riverside Substation Bank 6 Addition Project.

The bids closed on April 16, 2026, and two vendors submitted bids. Staff evaluated the bids for price and conformance with the bid requirements and determined that Delta Star, Inc., of San Carlos, California, was the lowest responsive and responsible bidder. Delta Star's bid price was within the engineering estimate.

The bids are summarized in the table below:

Vendors	City Location	Bid Amount	Rank
Delta Star, Inc.	San Carlos, CA	\$ 14,878,322	1
Pennsylvania Transformer Technology, Inc.	Cannonsburg, PA	\$ 15,175,278	2
Prolec-GE Waukesha	No bid	No bid	No bid
Weg Transformers	No bid	No bid	No bid
Niagara Transformer	No bid	No bid	No bid
Hitachi-ABB	No bid	No bid	No bid

➤ Engineer's Estimate \$16,000,000.00

On April 15, 2026, RPU released Informal Bid No. SUB-873 and invited five prospective bidders to submit bids through an informal procurement process for nine circuit breakers and two station service transformers. The bids closed on May 13, 2026, and two vendors submitted bids.

Staff evaluated the bids for price and conformance with the bid requirements and determined that One Source Supply Solutions, of San Diego, California, was the lowest responsive and responsible bidder. One Source Supply Solutions' bid price was within the engineering estimate.

Vendors	City Location	Bid Amount	Rank
One Source Supply Solutions	San Diego, CA	\$1,587,980	1
Wesco Anixter	Glenview, IL	\$1,713,086	2
VSSCHULER	No bid	No bid	No bid
Royal- IE	No bid	No bid	No bid
Dewart	No bid	No bid	No bid

➤ Engineer's Estimate \$1,800,000.00

This action is pursuant to Purchasing Resolution 24101, Section 404 Utilities Exception. "The Water, Electric and Sewer Utilities have a need for compatibility within their respective systems for uniform operation, maintenance and replacement, and this need can be met by procuring certain supplies, equipment, and materials supplies through Informal Procurement or Negotiated Procurement. If it appears to the manager to be in the best interest of overall economy and efficiency of the City to do so, and it is within existing budget appropriation, the following supplies, equipment, and materials are determined to be peculiar to the needs of the Water Utility, the Electric Utility, and the Sewer Utility and may be acquired by Informal Procurement or Negotiated Procurement, regardless of their estimated Procurement expenditure amounts, provided that the City's Board of Public Utilities or City Council shall have approved the proposed acquisition if required under the provisions of the City Charter, either by approval of the procurement contract or approval of annual purchase orders".

The Purchasing Manager concurs that the recommended action is compliant with Purchasing Resolution No. 24101.

Riverside Substation Bank 6 Addition Project Work Order and Project Cost

The project will be funded over several years. At this time, staff is seeking Board approval for \$6,327,972. The requested funding will support transformer and circuit breaker procurement, project management, and engineering design. The numbers shown below for Bid No. SUB-872 and Bid No. SUB-873 are for the portion of the bid that is associated with Riverside Substation Bank 6 Addition Project.

The requested project/fiscal breakdown is as follows:

Work Order No. 2514855 Initial Requested Approval

Work Type	Performed By:	Amount (\$):	% of Total:
Substation Design (Physical and Electrical) and Project Management	RPU Engineering	\$702,240	11.1%
Structural Foundation Design	Consultant	\$40,000	0.6%
Bid No. Sub-872 Transformers	Delta Star, Inc	\$4,747,736	75%
Contingency – 10% (Bid No. Sub-872)	Delta Star, Inc	\$474,774	7.5%
Bid No. Sub-873 Bid Breakers and Service Transformers	One Source Supply Solutions	\$330,202	5.2%
Contingency – 10% (Bid No. Sub-873)	One Source Supply Solutions	\$33,020	0.5%
Work Order Total:		\$6,327,972	100%
Anticipated Start Date:	September 2026		
Anticipated Duration:	42 months		

The following table provides an estimated cost for the entire project with the current request highlighted. Staff will seek Board approval for future work order increases and procurement.

Overall Work Order No. 2514855 Estimated Final Cost

Description of Work	Fiscal Year	Amount (\$)
Bid No. Sub-872 Transformers Procurement, Bid No. Sub-873: Procurement of Circuit Breakers and Service Transformers, Contingencies, and Engineering	Board approval on 8/10/2026	\$6,327,972
Procurement of Switchgear No. 2	Anticipated FY 2026/27	\$3,500,000
Construction Labor	Anticipated FY 2027/28	\$936,000
Testing and Commissioning		\$265,200
Additional Material and Equipment		\$2,400,000
Work Order Total		\$13,429,172

Harvey Lynn Substation Expansion Project Work Order and Project Cost

The project will be funded over several years. At this time, staff is seeking Board approval for \$14,042,000. The funding is necessary for awarding the request for bidding of the transformer and circuit breaker, project management and engineering design. The numbers shown below for Bid No. SUB-872 and Bid No. SUB-873 are for the portion of the bid that is associated with Harvey Lynn Substation Expansion Project.

The requested project/fiscal breakdown is as follows:

Work Order No. 2616697 Initial Requested Approval

Work Type	Performed By:	Amount (\$):	% of Total:
Substation Design (Physical and Electrical) and Project Management	RPU Engineering	\$1,384,800	9.9%
Structural Foundation Design	Consultant	\$130,000	0.9%
Bid No. Sub-872 Transformers	Delta Star, Inc	\$10,130,586	72.1%
Contingency – 10% (Bid No. Sub-872)	Delta Star, Inc	\$1,013,058	7.2%
Bid No. Sub-873 Breakers and Service Transformers	One Source Supply Solutions	\$1,257,778	9%
Contingency – 10% (Bid No. Sub-873)	One Source Supply Solutions	\$125,778	0.9%
Work Order Total:		\$14,042,000	100%
Anticipated Start Date:	September 2026		
Anticipated Duration:	44 months		

The table below provides an estimated cost for the entire project with the current request highlighted. Staff will seek Board approval for future work order increases and procurement.

Overall Work Order No. 2616697 Estimated Final Cost

Description of Work	Fiscal Year	Amount (\$)
Bid No. Sub-872 Transformers Procurement, Bid No. Sub-873: Procurement of Circuit Breakers and Service Transformers, Contingencies, and Engineering	Board approval on 8/10/2026	\$14,042,000
Procurement of Switchgear No. 7 & 8	Anticipated FY 2026/27	\$7,000,000
Construction Labor	Anticipated FY 2027/2028	\$1,872,000
Testing and Commissioning		\$468,000
Additional Material and Equipment		\$5,427,439
Work Order Total		\$28,809,439

FISCAL IMPACT:

The total fiscal impact of the recommended work order approvals is \$20,369,972, consisting of \$6,327,972 for Riverside Substation Bank 6 Addition Work Order No. 2514855 and \$14,042,000 for Harvey Lynn Substation Expansion Project Work Order No. 2616697. Sufficient funds are available in the Electric Fund Public Utilities Electrical Capital Account No. 6130100-470629 (Harvey Lynn/Riverside Substation).

Prepared by:	Daniel Honeyfield, Utilities Assistant General Manager/ Energy Delivery
Approved by:	David A. Garcia, Utilities General Manager
Certified as to availability of funds:	Julie Nemes, Finance Director
Approved by:	Gilbert Hernandez, Assistant City Manager
Approved as to form:	James Johnson, City Attorney

Attachments:

1. Project Site Map
2. Bid SUB-872 Award Recommendation
3. Bid SUB-873 Award Recommendation
4. Presentation