

## FIFTH AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT WITH POWER ENGINEERS FOR \$5,363,396

### Energy Delivery

Board of Public Utilities  
March 22, 2021

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## BACKGROUND

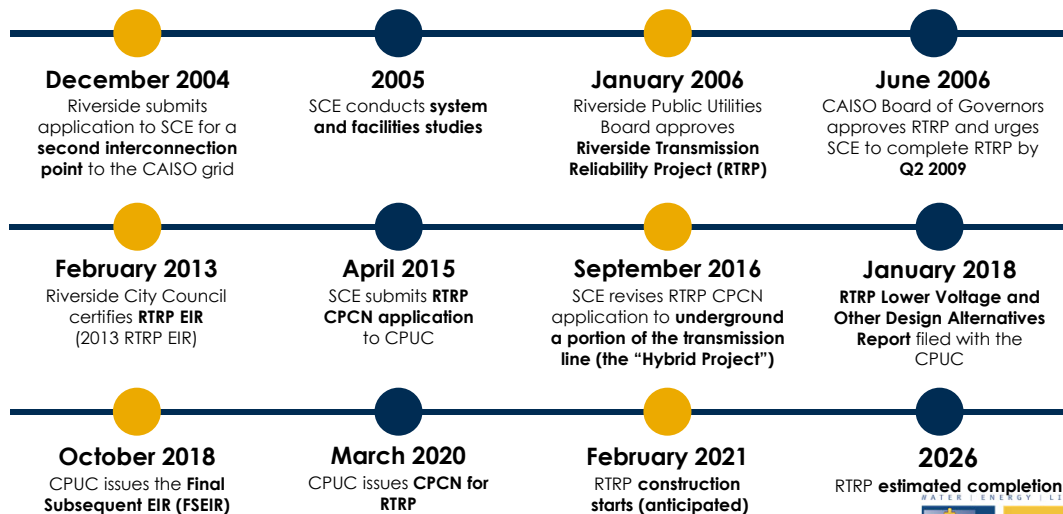
1. Riverside Transmission Reliability Project (RTRP) is a joint project with Southern California Edison (SCE) to provide the City of Riverside a critical second connection to the state transmission grid to increase capacity and improve reliability
2. January 20, 2006 - Board approved RTRP
3. February 5, 2013 - City Council certified the Final Environmental Impact Report (FEIR) for RTRP
4. March 12, 2020 - CPUC approved RTRP and granted SCE Certificate of Public Convenience and Necessity (CPCN)

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## History of RTRP

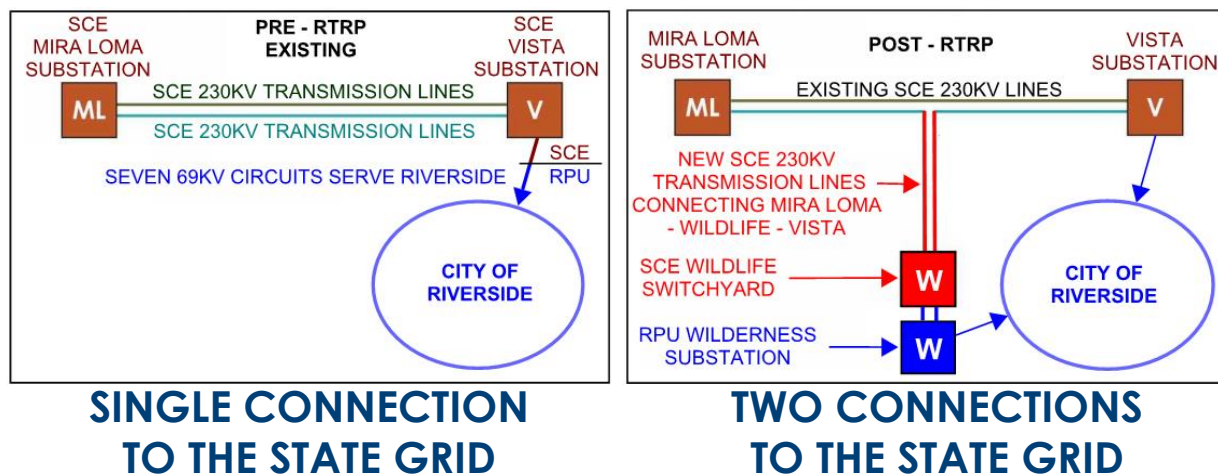


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## RTRP – A SECOND CONNECTION TO STATE GRID



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## RTRP

- RTRP consists of two major elements:**

**#1 – SCE's portion:** high voltage element constructed, owned, and operated by SCE (230 KV transmission line from Jurupa Valley including new Wildlife Substation in City)

**#2 – City's portion:** 69kV element that will be constructed, owned, and operated by RPU (new Wilderness Substation, upgrades to existing substations, and 69 KV improvements and system bifurcation in City to incorporate the new connection into the RPU grid)

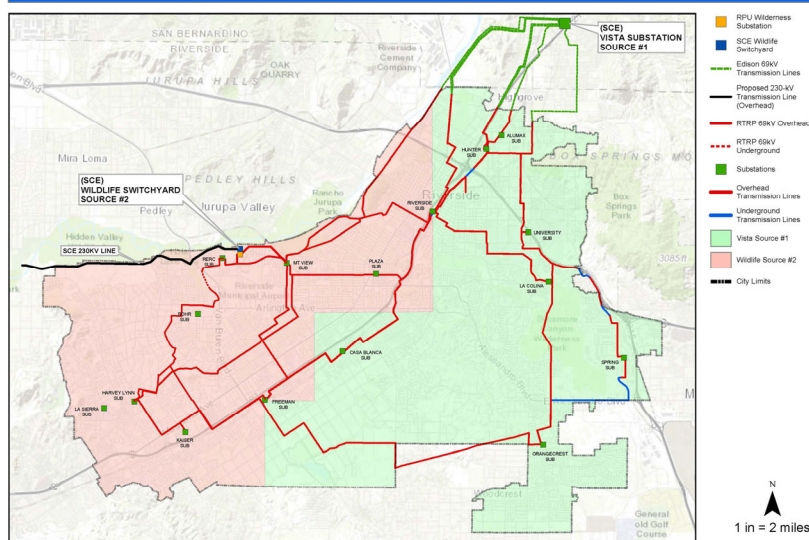
- RTRP will divide RPU's electric system in two sections – East and West systems. Both systems designed to operate in parallel under emergency conditions if one of SCE source is lost

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## Riverside Public Utilities Split Transmission Sources



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## RPU'S CONSULTANT FOR RTRP

- January 2006, Board approved Power Engineers as Consultant for RTRP
- Power Engineers has the historical knowledge and is familiar with RPU's standard
- Positioned well to continue designing and supporting the project

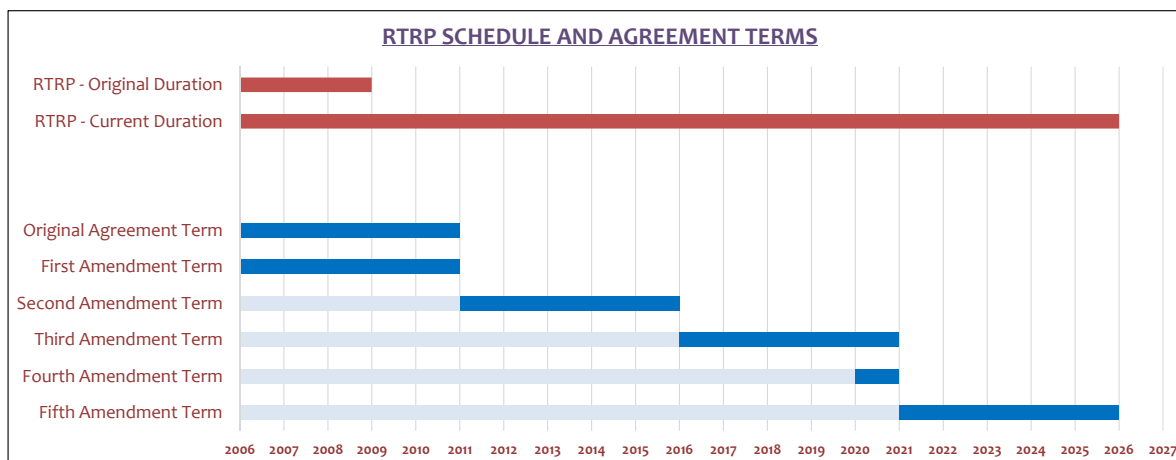
AGREEMENT APPROVAL DATES		
Date	Description	Amount
Jan. 20, 2006	Approved Power Engineers as RTRP Consultant	NA
Oct. 20, 2006	Original Agreement	\$9,632,698
Jun. 18, 2010	First Amendment	\$90,337
Oct. 21, 2011	Second Amendment	\$1,564,586
Dec. 18, 2015	Third Amendment	\$4,742,177*
Aug. 12, 2016 - current	Approved change orders	\$279,016
Jan. 07, 2020	Fourth Amendment - Hourly Rate sheet update only	NA
Mar. 22, 2021	Fifth Amendment	\$5,363,396



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## PROJECT SCHEDULE AND AGREEMENT TERMS



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## ACOMPLISHMENTS TO DATE

1. Completed Sub Transmission Project (STP) – scope was parsed out of RTRP due to an urgent need for system reinforcement, including Caltrans related scope of work:  
7.5 miles new 69kV lines, Reconfigured 13 Transmission Circuits, Modified 9 Substations
2. Certified EIR for RTRP
  - A. Support for EIR & Subsequent EIR , Environment process matters of CEQA & CPCN Approval
  - B. Prevailed 2 Court Challenges, CPUC hearings & Low Voltage Alternatives study report
  - C. Support for LWCF, MSHCP environment surveys, Traffic Studies and Public Outreach matters
  - D. Support for Easements Acquisitions, Site Survey & Pre-design utility conflict identification
  - E. Completed Design of RERC to Harvey Lynn Line, Material yard, Harvey Lynn substation upgrade, Wilderness substation preliminary site design & grading plan
  - F. Prepared construction specs for RERC-Harvey Lynn line work and Material yard
  - G. Support for material procurement, project & construction management, and environment monitoring during RERC-Harvey Lynn line construction



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## IN-PROGRESS TASKS

1. Support for Environment process matters, including LWCF, MSHCP environment surveys, traffic studies and public outreach
2. Support for Easements Acquisition, Site Survey & Pre-design utility conflict identification
3. Design of RERC to Freeman Line, Material yard, Freeman substation upgrade, Wilderness substation site design & grading plan
4. Construction specs for RERC-Freeman line work and Freeman substation upgrades and Wilderness substation site development
5. Support for substation standards updates, planning & protection studies
6. Engineering design coordination with SCE's scope of work
7. Support for material procurement, project & construction management , and environment monitoring during 69kV line construction



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## FUTURE TASKS TO COMPLETE RTRP

1. Design and Construction specifications for 230/69kV RPU Wilderness Substation
2. Design and Construction specifications for six (6) 69kV overhead line connections to integrate the RPU Wilderness Substation to RPU's electric substations and distribution facilities
3. Support for Easements Acquisition, Site Survey & Pre-design utility conflict
4. Preparation of comprehensive System Coordination study work plan
5. Engineering design coordination with SCE's scope of work
6. Support for material procurement, project & construction management, and environment monitoring during 69kV line construction

## FIFTH AMENDMENT

1. Support continuation of In-progress tasks scope of work and future tasks scope of work to complete RTRP
2. Current Agreement funds will be running out soon; additional funds are needed for Power Engineers to complete RTRP scope of work
3. RPU Staff requested Power Engineers to provide a proposal to complete the remaining scope of work for RTRP tasks

## PROPOSAL FOR FIFTH AMENDMENT

1. RPU Staff reviewed the proposal from Power Engineers and agrees with the scope of work details, work plan and pricing proposed
2. The project specific knowledge accumulated by Power Engineers is paying off with respect to work efficiencies
3. RPU staff is satisfied with Power Engineers' work and does not believe that repeating the RFP process at this point will produce a better-qualified engineering firm or better price for this project



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## FIFTH AMENDMENT PROPOSAL – COST ESTIMATES

Scopes of Work	Existing 4 <sup>th</sup> Amendment Agreement*	Proposed Fifth Amendment (March 22, 2021)	Proposed New Agreement Total
RTRP 69kV	\$8,565,803	<b>\$5,171,556</b>	\$13,737,359
RTRP 230kV	\$5,190,661	<b>\$191,840</b>	\$5,382,501
STP	\$2,377,988	<b>\$0</b>	\$2,377,988
Caltrans	\$174,362	<b>\$0</b>	\$174,362
<b>Total</b>	\$16,308,814	<b>\$5,363,396</b>	\$21,672,210

\* including the approved amendments and change orders amounts



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## FISCAL IMPACT

1. The proposed Fifth Amendment extends the term of the agreement to December 31, 2026, addresses changes to the RTRP schedule, increases the amount of the agreement by \$5,363,396 for a total amount of \$21,672,210
2. Staff is requesting 20% Change Order authority to the Power Engineers Agreement increased amount due to the term of the assignment, complexity of the project and potential delays that should be anticipated
3. Sufficient funds are available in Public Utilities' RTRP Electrical Account No. 6130000-470685.

## RECOMMENDATION

The Board of Public Utilities:

1. Approve the Fifth Amendment to the Professional Consultant Services Agreement with Power Engineers Inc., to extend the term by five years to December 31, 2026, and increase the amount of the agreement by \$5,363,396 to a total contract cost of \$21,672,210 for engineering services related to RTRP project components;
2. Approve a change order authority in an amount not to exceed 20% or \$1,072,679 of the contract amendment amount of \$5,363,396; and
3. Authorize the City Manager, or his designee, to execute the Fifth Amendment to the Professional Consultant Services Agreement with Power Engineers Inc., including making minor and non-substantive changes.