SCE Transmission Project Review (TPR) Process

Stakeholder Meeting

February 28, 2025

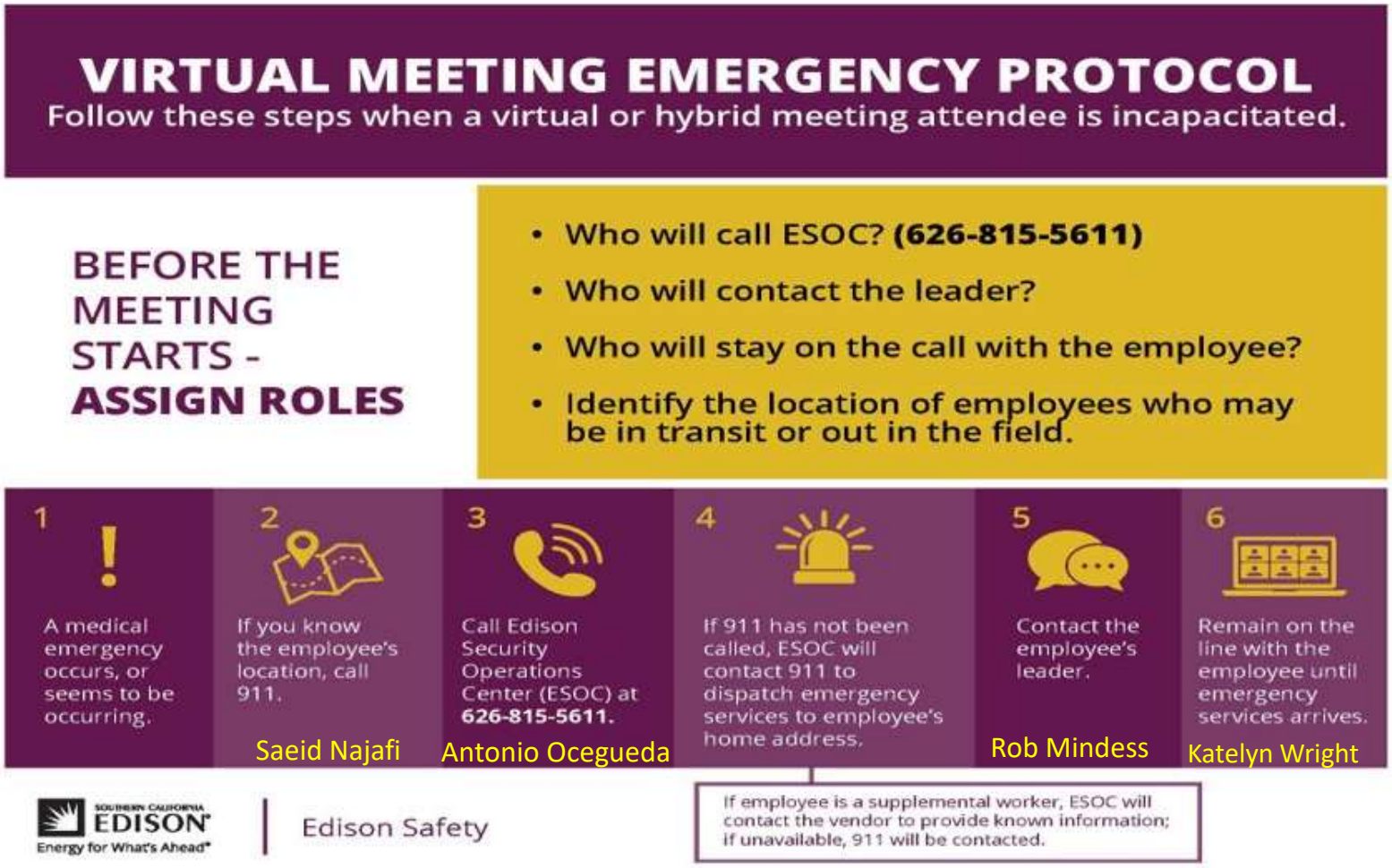
Agenda

Time	Duration	Topic	Presenter
9:00am - 9:10am	10 min	Roll Call	J. Huerta
9:10am - 9:20am	10 min	Safety and Meeting Logistics	M. Khouzam
9:20am - 9:30am	10 min	Welcome and TPR Overview	A. Ocegueda
9:30am – 9:40am	10 min	SCE TPR Process Data Sheet	S. Najafi & A. Leung
9:40am – 9:55am	15 min	Advance Procurement	M. Hosseinzadeh & M. Vallecorsa
9:55am – 10:15am	20 min	Transmission Planning Process (TPP) – Approved Policy Projects	F. Benavides
10:15am – 10:25am	10 min	PB-43.05/43.06 Pardee-Pastoria (San Joaquin and North Coast) Reconductor	N. Harris
10:25am – 10:35am	10 min	PB-04.01 Spare Transformer Equipment Program (STEP)	J. Mereno
10:35am – 10:45am	10 min	Transmission Line Rating Remediation (TLRR)	N. Harris
10:45am – 11am	15 min	Break	
11:00am – 11:10am	10 min	SP 01 – Calcite Substation Construction	H. Arshadi
11:10am – 11:20am	10 min	SP-04 Alberhill	M. Bass
11:20am – 11:30am	10 min	SP 10 – Riverside Transmission Reliability Project	K. Spear
11:30am – 11:40am	10 min	Scope, Cost & Schedule Management (Delays)	J. Keelin
11:40am – 11:55am	15 min	RAS and CRAS Delays	F. Benavides & A. Leung
11:55am – 12:05pm	10 min	Data Field 59 – Construction Work in Progress ($000)	A. Leung
12:05pm – 12:15pm	10 min	Close Out and Next Steps	A. Ocegueda

Safety and Meeting Logistics

Mark Khouzam, Senior Advisor
FERC Rates and Tariffs – TPR Team

Virtual Meeting Emergency Protocol



Safety Moment – February is American Heart Month

#OurHearts

are healthier when we move together

Physical activity is a great way to help protect yourself from heart disease and stroke. Keep your heart healthy and aim for at least 2½ hours of moderate physical activity every week.

Doing heart-healthy activities with a friend will keep both of you inspired for the long run.

- Take an online fitness class together like yoga.
- Commit to a walking schedule with a friend or family member, even if you can't walk together.
- If you enjoy the outdoors, try hiking, biking, golfing, or gardening.
- Protect your heart by moving more and get your family and friends to do the same.

NIH National Heart, Lung, and Blood Institute

THE heart TRUTH

Meeting Logistics

- No NERC CIP confidential information will be discussed
- Please mute your line if you are not speaking
- Presenters will take questions at the end of their section
- Please use raise your hand (icon) and we will call on you in the order it was raised; Reminder to put hand down after question
- When asking questions, please state your name and organization first
- Presenters will be joining throughout the day at a specific times, so we will work to stay on schedule
- SCE welcomes your feedback on how to improve the stakeholder calls during next steps and in written comments

Welcome and TPR Overview

Antonio Ocegueda, Principal Manager
FERC Rates and Tariffs

TPR Overview and Meeting Objectives

- The Transmission Project Review Process provides the Commission and all Stakeholders semi-annually with current, specific, comprehensive, and system-wide transmission data for projects with capital additions to rate base in the last five years and forecasted or actual capital expenditures in the current year and future four years.
- SCE hosts a semi-annual Stakeholder Meeting on February 28 and August 28, to engage and address Stakeholder's questions and discussion topics.
    - SCE has made a good faith effort to identify the appropriate subject matter experts to speak on each topic and to provide accurate information throughout this presentation but reserves the right to correct or supplement the information provided if it becomes aware of needed modifications or additions

TPR Process Milestones

Date	Milestone
December 2	SCE provides semi-annual Project Data Spreadsheet and project authorization documents to Stakeholders
January 15	Deadline for Stakeholders to provide questions/ comments
February 6	SCE publishes written responses to questions / comments
February 13	CPUC and Stakeholders provide agenda items for Stakeholder meeting
February 28	SCE hosts Stakeholder meeting
March 14	Stakeholders provide questions/ comments within 15 calendar days following Stakeholder meeting
April 4	SCE publishes written responses to questions/ comments
April 11	Deadline for Stakeholders to provide project-specific follow-up questions/ comments
April 25	SCE publishes written responses to project-specific follow-up questions/ comments
April 30	Stakeholders may provide comments to SCE by this date
June 2	Repeat

SCE's December 2024 TPR Materials & Questions Received

- SCE's December 2024 TPR Project Spreadsheet included all FERC-jurisdictional electric transmission projects with actual or forecasted capital costs of one million dollars or more in the prior five calendar years, the current year, or the next four years (2020 – 2029)
  - SCE's December 2nd submittal initially included a recorded/forecast period of 2019-2028. On December 27th SCE submitted a revision to reflect the period of 2020-2029.
- SCE's December 2024 TPR Submission included:
  - Project Data Spreadsheet included a total of 451 rows comprised of: 45 Program Blankets, 271 programmatic projects, and 135 Specific Projects.
  - 177 Authorization Documents that correspond to Projects in the Spreadsheet.
  - 2 Procedures
- SCE received one data request set from Energy Division and one from Cal Advocates
  - Energy Division
    - 37 questions with subparts
  - Cal Advocates
    - 2 questions with subparts
- Topics for today's discussion were received from the CPUC (in coordination with other stakeholders)

SCE TPR Process Data Sheet

Albert Leung, Sr. Advisor – Financial Analyses

Saeid Najafi, Sr. Engineer – Technical Compliance

SCE TPR Process Data Sheet

Please describe SCE's process for pulling data. Identify source systems, records, accounting data, etc., particularly noting any changes since Cycle 1. Discuss issues encountered in preparing the second TPR Process Data Sheet and planned improvements for Cycle 3.

- Our approach for pulling data remained consistent from Cycle 1 to Cycle 2
- As it pertains to financial data, forecast information is sourced from the annual capital operating plan
- Recorded costs are obtained from PowerPlan. New projects that meet the threshold criteria for inclusion in the TPR are identified through the analysis of recorded and forecasted data and subsequently incorporated into the TPR spreadsheet.
- For these newly identified projects, subject matter experts (SMEs) update the required fields in the TPR spreadsheet using various data sources, ensuring compliance with the requirements of Resolution E-5252. SMEs also update individual fields for existing TPR projects or programs already included in the spreadsheet, as necessary.

SCE TPR Process Data Sheet

Please describe SCE's process for pulling data. Identify source systems, records, accounting data, etc., particularly noting any changes since Cycle 1. Discuss issues encountered in preparing the second TPR Process Data Sheet and planned improvements for Cycle 3.

- Each cell in the TPR spreadsheet is managed by a dedicated SME team. List of SMEs is reviewed and updated as necessary for each cycle.
- SCE does not have a single, comprehensive data source that includes all TPR required fields. It is the responsibility of the SME teams to utilize the available data sources to complete and update their respective sections. Below are some examples of key data sources that have been leveraged in cycle 2:

- P6 Production Database
- P6 Archive Database
- SAP
- Trend SharePoint Site
- CMT SharePoint Site
- ATP SharePoint Site (Programs)
- PMWIF SharePoint Site
- GICD's iREQ Access Data Base
- Copperleaf C55
- MDI/IWP (Integrated Work Plan)
- PowerPlan
- CAPMAR
- COBRA
- CAISO Annual Transmission Plans
- Project Cost Element Details (PCED)
- Google Earth
- EHSync system
- ArcGIS
- Wildfire Mitigation Plan

SCE TPR Process Data Sheet

Please describe SCE's process for pulling data. Identify source systems, records, accounting data, etc., particularly noting any changes since Cycle 1. Discuss issues encountered in preparing the second TPR Process Data Sheet and planned improvements for Cycle 3.

- Data integrity and accuracy was achieved through a multi-tiered review process conducted by SCE's TPR core team, leadership team as well as by regulatory and legal advisors

- As stated on slide 10, SCE filed a supplemental revision to reflect the period of 2020-2029 on December 27th. We did not encounter any other issue in preparing the second TPR Process Datasheet.

- TPR process is a significant cross functional effort for SCE. We are currently in the process of updating the SME list for Cycle 3 with the objective of enhancing efficiency, minimizing multiple handoffs, and ensuring clear ownership and accountability.

- SCE will continue to apply the lessons learned from its TPR submissions and continue trainings where necessary to ensure continuous improvement

Advance Procurement

Majid (Mike) Hosseinzadeh, Senior Manager Technical Project Management, PPM

Michael Vallecorsa, Principal Manager, Procurement

Advance Procurement

Please describe any efforts that SCE is undertaking with regard to advance procurement of transmission equipment, including the approach taken, the equipment being procured in advance, the impacts of these efforts to date, long-term benefits SCE expects from its advance procurement efforts, and possible risks or negative impacts to ratepayers.

Our approach for advance procurement of transmission equipment:

- Due to increased manufacturing lead-times for major apparatus, SCE developed a sourcing plan using a 5-year forecast for power transformers and circuit breakers
    - High Voltage Power Transformer lead time has generally increased from 18-24 months to 4+ years, and from 18 months to 3+ years for circuit breakers
- SCE has also increased its planning cycle to adjust to market changes in lead-times to reduce the risk of material shortages
- SCE negotiated and executed contracts with manufacturers to reserve production slots for power transformers and circuit breakers to ensure it has availability of supply
- SCE can use these production slot reservations to better align with priorities of projects and can adjust the designs prior to going into actual production which increases flexibility while reduce the risk of individual project delays
- SCE is currently refreshing its material forecast to evaluate the current production slots against our priorities and to assess the need for future production slot reservations

Transmission Planning Process (TPP) - Approved Policy Projects

Fernando Benavides, Senior Advisor – Integrated Major Project Development

Transmission Planning Process (TPP) - Approved Policy Projects

Please provide an update on the following transmission projects in the TPR data that are TPP-approved policy projects being built by SCE or are SCE projects for the purpose of interconnecting independent TOs' policy projects listed below:

- **Eldorado-Lugo-Mohave RPS Upgrade**
- **Mesa - Del Amo - Serrano 500 kV Upgrade**
- **Colorado River-Red Bluff No.1 500 kV Line Upgrade**
- **Devers-Red Bluff No.1 and No.2 500 kV Line Upgrade**

a) **Please include in the discussion cost estimates and in-service dates as provided in the CAISO Transmission Plan approving each project, the June 2024 TPR Project Spreadsheet, the December 2024 TPR Project Spreadsheet, and the current estimates. Please provide the reasons for changes in costs or in-service dates.**
b) **Please identify the type and amounts (MW) of generation capacity that will interconnect to the electric grid via these projects.**
c) **Please provide similar updates on generator interconnection-related network upgrades.**

Transmission Planning Process (TPP) - Approved Policy Projects

Eldorado-Lugo-Mohave (ELM) RPS Upgrade

- Eldorado-Lugo series cap and terminal equipment upgrade
  - Approved in the CAISO 2012-2013 Transmission Plan
  - Project Cost of $121M
  - Estimated ISD of 2016
- Lugo-Mohave series cap and terminal equipment upgrade
  - Approved in the CAISO 2013-2014 Transmission Plan
  - Project Cost of $70M
  - Estimated ISD of 2016
- Both projects combined as part of the ELM Project ($191M)
- Currently in construction with an estimated ISD of 4/30/2025
  - $331M
  - June TPR (3/8/25 ISD), May TPR (5/30/25 ISD)-Minor refinements to schedule as work progresses
- In-Service Date Changes
  - Original proposal was modified to meet the objectives of the project which was to increase the series compensation on each 500 kV Transmission Line
    - Additional studies required to confirm the optimal design
    - Mid-Line series capacitors were added to the project
  - Original proposal assumed that licensing would not be required
    - Inclusion of mid-line capacitors and other required work triggered the need for licensing
    - Final Decision issued by the Commission approving CPCN in August of 2020
    - CPCN PFM (Submitted 5/24/23): Request to approve cost increase to $295M. Cost increase partially driven by deferral of online date.

Transmission Planning Process (TPP) - Approved Policy Projects

Eldorado-Lugo-Mohave (ELM) RPS Upgrade

- In-Service Date Changes (Continued)
  - Following the Final Decision, SCE continued to work with remaining agencies which included BLM CA, BLM Nevada, and the National Park Service
    - Work within the boundaries of these agencies could not begin until authorization was received.
  - Once construction began, COVID delayed the project by deferring when work could begin and because of resulting supply chain issues
  - Incremental delays in material delivery were responsible for longer term delays since work could only be done during designated periods when approved by the CAISO
    - A majority of the work required by the ELM Project required 500 kV line outages which must be approved by the CAISO and for which can only occur during certain periods of the year
    - The inability to begin or complete work during designated periods meant that the overall schedule would be pushed to the following year

Transmission Planning Process (TPP) - Approved Policy Projects

Mesa Del-Amo-Serrano Upgrade

- Approved in the CAISO 2022-2023 Transmission Plan with an ISD of 2033
  - Project Cost of $1.125B
  - Project cost and ISD have not changed

Colorado River-Red Bluff No.1 500 kV Line Upgrade

- Approved in the CAISO 2022-2023 Transmission Plan with an ISD of 2028
  - Project Cost of $50M within the Transmission Plan
  - Projected cost of $24M (December 2024 TPR)
    - Preliminary engineering refined the scope of work resulting in a decrease in cost
  - Not included in the June TPR
  - Estimated ISD of December 2027 in the December 2024 TPR

Devers-Red Bluff No.1 and No.2 500 kV Line Upgrade

- Approved in the CAISO 2022-2023 Transmission Plan with an ISD of 2028
  - Project Cost of $140M within the Transmission Plan
  - Projected cost of $73M (December 2024 TPR)
    - Preliminary engineering refined the scope of work resulting in a decrease in cost
  - Not included in the June TPR
  - Estimated ISD of December 2030 in the December 2024 TPR

Transmission Planning Process (TPP) - Approved Policy Projects

Generation capacity that will interconnect to the electric grid via these projects

- Each of the policy driven projects are not required for the physical interconnection of generation projects
- The CAISO Transmission Plans and/or Transmission Plan Deliverability Allocation Reports provide information related to the generation that is impacted by the constraints that the policy driven projects would alleviate
- All policy driven projects are meant to provide additional capacity related to renewable energy in accordance with the policy goals of the state under the RPS
    - This would include solar PV, wind, and/or battery energy storage systems

The Transmission Development Forum provides status updates on other generator interconnection requests (link below)

- Facilitated by CAISO, in conjunction with the CPUC and PTOs
- Provides updates on approved transmission projects and Network Upgrades identified in the generation interconnection process

Meetings | Transmission development forum | California ISO

PB-43.05/43.06 Pardee-Pastoria (San Joaquin and North Coast) Reconductor

Nora Harris, Sr. Project Manager – Major Construction

PB-43.05/43.06 Pardee-Pastoria (San Joaquin and North Coast) Reconductor

- The Pardee-Pastoria Reconductor project is the result of a material failure experienced on a previously completed project
  - The project need was identified in late 2023
  - The project is on schedule to be completed by June 2025
  - SCE is currently pursuing multiple options for cost recovery
- The Pardee-Pastoria Reconductor project is currently in construction
  - All structure raises are complete as of 12/31/2024
  - Approximately 50% of the new conductor has been installed as of 2/21/2025
- Known Risk costs for the Project are based on the development of a project risk register
  - Primary risks that will drive cost increases include delays related to agency approvals, unanticipated discoveries, and extreme weather events
  - Costs are calculated by factoring the probability of the incident occurring against the expected cost and schedule impact of the event

PB-04.01 Spare Transformer Equipment Program (STEP)

Jessica Mereno, Tech Spec, Advisor – Substation Construction & Maintenance

PB-04.01 Spare Transformer Equipment Program (STEP)

Please describe the extent of SCE's participation in the STEP (Spare Transformer Equipment Program).

- Purpose: STEP is a voluntary transformer sharing program put together to help mitigate the impacts of a terrorist event/act of sabotage that target key substation equipment.
- Methodology: The impacted utility must first use its own resources to mitigate damage before invoking the STEP sharing agreement. If assistance is requested, the impacted utility is responsible for transportation and restocking costs.
- Membership: Members must commit "usable" transformers to the program as part of the membership cost. Committed transformers can be in-service transformers (energized or de-energized) or a de-energized, undressed transformer that is not currently in use.
- SCE's Involvement: SCE participates in two voltage classes, 500/230 kV and 230/115 kV.
  - Currently housing (7) units of various configurations
  - Units are strategically stored throughout Edison Territory
  - Units approaching end of warranty are rotated into the grid and new units are replenished
  - The STEP program entries (PB-04.01) in the TPR Project Spreadsheet represent SCE's costs associated with procurement of applicable transformers
- Evaluation: The EEI (Edison Electric Institute) STEP organization meets (2) times per year to review commitment requirements.

Transmission Line Rating Remediation (TLRR)

Nora Harris, Sr. Project Manager – Major Construction

Transmission Line Rating Remediation (TLRR)

Program Progress

- Total Discrepancies Remediated: 5,600
- Discrepancies Remaining: 5,564

Discrepancy Remediation Accounting

- Whole Circuit Remediation
- All discrepancies held as “in process” until project is in-service
  - SP-23 Eldorado-Pisgah-Lugo – 233 discrepancies – 2028
  - SP-25 Ivanpah-Control – 2,487 discrepancies – 2030
  - SP-26 Control-Silver Peak – 657 discrepancies – 2030
  - PB-22.23 Bailey-Pardee – 74 discrepancies – 2026
  - PB-22.40 Big Creek 3-Rector No.1 – 114 discrepancies – 2027
  - PB-22.45 Eagle Mountain-Blythe – 168 discrepancies – 2027
  - PB-22.62 Big Creek 2-Big Creek 3 – 19 discrepancies – 2027

SP 01 – Calcite Substation Construction

Hamid Arshadi, Project Manager, Transmission & Substation Project Management

SP 01 – Calcite Substation Construction

Project Background:

- **Calcite Substation** (formerly known as Jasper Substation) is a proposed 220 kV switching station, to be located near Lucerne Valley in San Bernardino County, CA
- Through the Generation Interconnection Process, the customer for the following interconnection projects requested interconnection into the proposed Calcite 220 kV Substation:
  - **Sienna Solar 1:** a 200 MW solar PV project, and
  - **Sienna Solar 2:** a 55 MW solar PV/BESS project

Calcite Substation Scope:

- Construction of the new Calcite 220 kV substation
- Loop in of the Lugo-Pisgah No.1 220 kV Transmission Line into the new Calcite substation
- Construction of SCE portion(s) of Sienna Solar 1 & 2 gen-ties line into the substation
- Construction of associated distribution and telecommunication work

Project Budget:

- Current project cost estimate is approximately $60M

Regulatory Approval Update:

- The County of San Bernardino is completing CEQA and permitting review of the Sienna Solar 1 & 2
- The County is evaluating Calcite Substation's environmental impacts (EIR)
- It is anticipated that the County of San Bernardino will release the final EIR in April-May 2025
- PTC filing of the Calcite Substation with CPUC anticipated in June-July 2025

Schedule:

- Calcite Substation construction to start in Q1 2027
- Forecasted Operating Date: May 2028

SP-04 Alberhill

Michael Bass, Sr. Project Manager - Transmission, Substation Project Management

Overview and Status Update on the Components of the Alberhill Project (SP-04)

Purpose of Project

- Due to increased load in Western Riverside County, SCE has proposed building the Alberhill System to power 5 existing distribution substations, previously powered by the Valley Substation.
- When the Alberhill System is complete, SCE will create additional capacity at Valley and activate tie-lines between the Alberhill and Valley systems resulting in greater system capacity, increased reliability and greater resilience as well as opening of additional operating capacity for connection of future renewable energy projects and storage projects to the SCE grid.

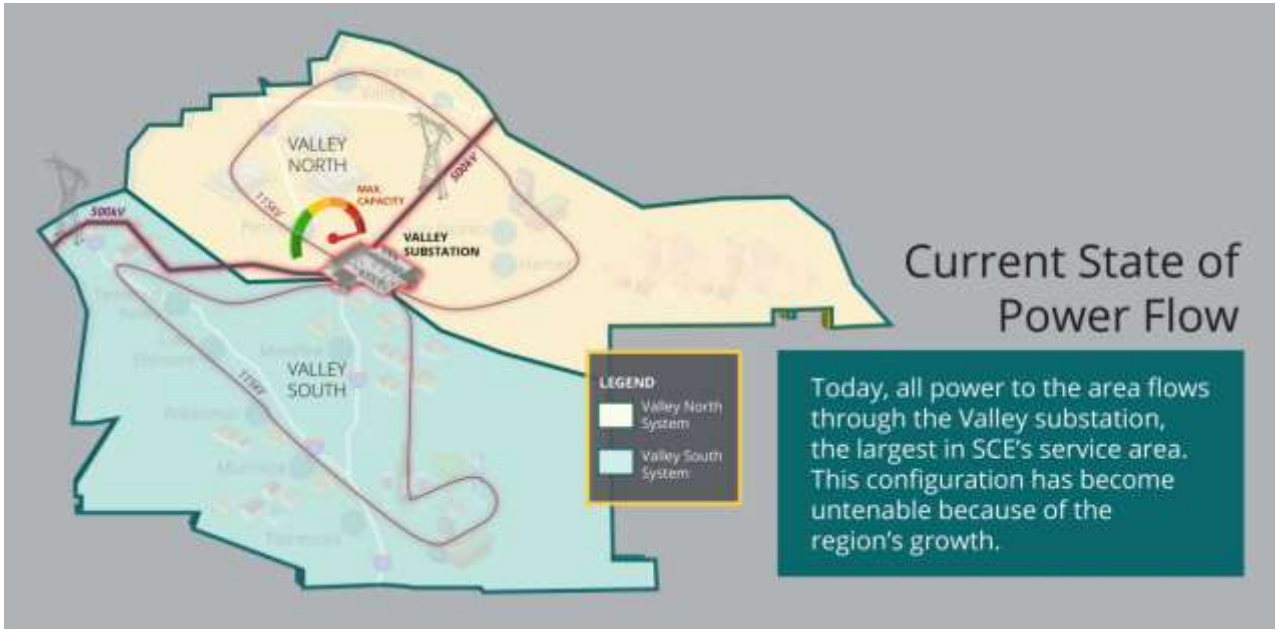
Scope

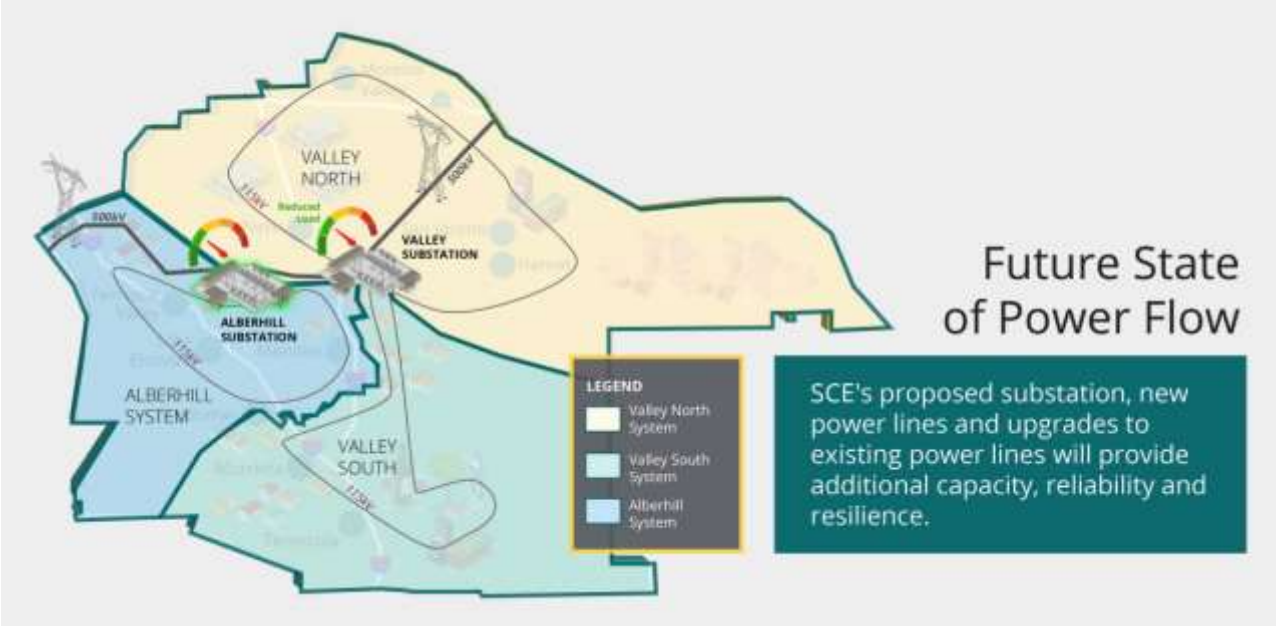
- 3.5 mi of new 500 kV Transmission Line with 12 new towers to loop-in existing Serrano Valley Transmission Line
- New 1,120 MVA 500/115 kV Substation, 24-acre property near Temescal Canyon Rd. / 15 Fwy
- 20 mi of new double circuit 115kV lines to connect satellite distribution substations, 11 mi of distribution circuits
- 5 mi of new Telecom fiber optic circuit and microwave communication system
- 5 new access roads, 3 helicopter landing pads for access to new Transmission towers

Project Status/Regulatory Update

- SCE filed a third amended CPCN application June 2, 2023
- Addendum to the Final EIR issued June 2024
- SCE expects a final decision mid/late 2025
- SCE has launched final engineering and major materials (transformers, circuit breakers) procurement to expedite energization of the project
- Construction scheduled to start late 2026/early 2027

SP-04 Alberhill – Current vs Future





SP 10 – Riverside Transmission Reliability Project

Kenneth Spear, Sr. Project Manager – Major Construction

SP 10 – Riverside Transmission Reliability Project

Please provide an update on status, costs, schedule and regulatory approval.

Status: Project is nearing completion of pre-construction milestones (contracting and procurement) toward target construction contractor mobilization to occur in late June 2025.

Project Costs: In process of receiving bids for remaining scope elements. Will compile updated project cost estimate, estimated August 2025

Schedule:

- Underground Construction start (in Jurupa Valley City Streets) forecast: July 2025
- Overhead Construction start forecast : Q2 2026
- Substation Construction start forecast: Q4 2027
- Project Completion forecast: Q4 2029

Regulatory Approval: Depending on updated project cost estimate, may need to submit a Petition for Modification to CPUC for cost cap increase. Timing TBD.

Scope, Cost & Schedule Management (Delays)

John Keelin, Principal Manager
Transmission, Substation Project Management

Management of Delays

Describe SCE's project and change management processes for tracking and controlling costs when significant project delays have been identified.

Cost and Schedule Management and Oversight

- The annual budget for each project is formally reviewed monthly by the project execution team and senior leadership
  - A watch list, which includes discrete cost pressure to annual project budget, is updated and reviewed monthly
- The total project budget is updated monthly and reviewed by the project execution team and senior leadership
- The project schedule and annual milestones are reviewed by the project execution team and senior leadership monthly
  - Risks to the schedule are also reviewed monthly

Change Control

- Changes to scope, total project cost or overall project schedule are generated on an as needed basis in accordance with established metrics to document and approve impacts to each individual project
- Approval of changes is driven by the significance of the change, and generally confined to Transmission and Distribution leadership, however, changes that exceed the Finance and Risk Management threshold require further approval

RAS and CRAS Delays

Fernando Benavides, Senior Advisor – Integrated Major Project Development

Albert Leung, Sr. Advisor – Financial Analyses

RAS and CRAS Delays

In CAISO's Transmission Development Forum (TDF) on January 29, 2025, SCE discussed five delayed RAS/CRAS projects:

- **SCE-C11P2-EOP-R1**
- **SCE-C12P2-N-R3**
- **SCE-C72021-EOP**
- **SCE-C9P2-N-R1**
- **SCE-C10P2-E-R3**

a) **Please identify the corresponding project and project IDs used in the TPR Project Spreadsheet for the five projects listed above. If they are not included in the TPR data, please explain why.**

b) **Please describe, in further detail, the underlying reasons for the project delays listed above.**

c) **Please explain SCE's plans to speed up RAS/CRAS project timelines in 2025. What changes has SCE made in the past year to improve its RAS/CRAS capabilities? Have these changes led to measurable reductions in RAS/CRAS project timelines?**

RAS and CRAS Delays

SCE-C11P2-EOP-R1: SP-72 Lugo-Victorville Centralized RAS (CRAS)

Project Delays:

- Project is dependent on facilities to be placed by the Lugo-Victorville RAS (SCE-C72021-EOP) which have been delayed by licensing
- Outage constraints have limited when work for the CRAS can be complete
  - Outages required for the project cannot be taken at the same time as outage required for other projects
- Several generation Projects that are required to participate on the CRAS have been delayed resulting in the need to defer the overall ISD
- The December TPR ISD of June 2026 is incorrect and will need to be updated to June of 2028
  - As other transmission projects have been delayed, this has caused a cascading effect on the overall schedule of other related projects.

RAS and CRAS Delays

SCE-C72021-EOP: SP-19 Lugo-Victorville RAS

- Project Delays
  - June & December 2024 TPR's (ISD of 3/31/2025)
  - While construction continues, the ISD is now forecasted to be by December 2025 assuming approval of necessary permits
  - Start of construction has been impacted by delays in receiving the Notice to Proceed (NTP) from the BLM and the Notice of Determination (NOD) from the California Department of Fish and Wildlife (CDFW)
  - On January 20, 2025, and with the change in presidential administrations, Order No. 3415 was issued by the Secretary of the Interior which placed a 60-day hold/Temporary Suspension of Delegated Authority on Department Bureaus and Offices
    - Approval to proceed following the 60-day hold will delay SCE's ability to complete the work as previously scheduled
    - Delays are responsible for work having to be rescheduled until the end of the year (assuming approval is obtained in time)

RAS and CRAS Delays

SCE-C10P2-E-R3: SP-63 WOCR CRAS Inland Devers Extension Monitoring Infrastructure

- The project related to completing the monitoring infrastructure along with generation is now complete as of 4/9/2024
- The CRAS will be modified as part of a separate project in the future once Alberhill (SP-04) is approved to move forward.
  - Refer to Slide 32 for further information on the timeline related to Alberhill Substation (SP-04)

SCE-C12P2-N-R3: Moorpark CRAS

- Not identified in the June or December 2024 TPR's nor will it be included until the project is approved to move forward
- CRAS is dependent on the responsible Interconnection Customer that triggered the need for the CRAS to move forward
- Currently this project is on-hold pending a decision by the Interconnection Customer to move forward

RAS and CRAS Delays

SCE-C9P2-N-R1: Whirlwind AA Bank CRAS

- Not included in the December 2024 TPR because costs for this project are shared among four other projects. These costs are expected to be apportioned to the appropriate projects by the end of 2025.
- The modification to the CRAS to add the outage of the AA-Banks is currently scheduled to be completed by 3/28/2025
    - Testing is already underway to in-service this portion of the CRAS

Data Field 59 – Construction Work in Progress ($000)

Albert Leung, Sr. Advisor – Financial Analyses

Data Field 59 – Construction Work in Progress ($000)

Describe SCE's interpretation of this data field and what the CWIP dollars entered into this column represent for projects that are already in operation. See Attachment 1 for the list of projects in question.

- Construction Work in Progress (CWIP) represents the balances of work orders in the process of construction, as defined in 18 CFR, Part 101 – Uniform System of Accounts, and reported under Account 107
- In the TPR, amounts shown for the CWIP column reflect only the FERC-portion of capital expenditures. Additionally, CWIP excludes cost associated with removal activities (i.e., Removal Work In Progress, or RWIP)
- In accordance with the TPR Resolution, CWIP is reported through the last calendar year. For the December 2024 TPR this is through 2023, so certain projects may reflect zero CWIP balance when the following year of recorded is included (i.e., in upcoming June 2025 TPR)
- Projects may contain multiple work orders, which may have different in-service dates, or may contain work orders that are still open
- Work orders may remain open and continue to show a CWIP balance past a project's ISD, for example, due to trailing project costs and post-closing true-ups

Data Field 59 – Construction Work in Progress ($000)

Describe SCE's interpretation of this data field and what the CWIP dollars entered into this column represent for projects that are already in operation. See Attachment 1 for the list of projects in question.

Projects with CWIP in Question ($000s)

Row/Line No.	Project Name(s)	Current Projected or Actual In-Service Date	Current Projected Total or Actual Final Cost	Construction Work in Progress	Comments
PB-02.03	Pacific HVDC Intertie: Replacement of (3) PDCI Bowed Towers	3/30/2021	1,873	1,356	Pending Further Review
PB-18.02	Eldorado Substation Transformer Bank Replacement (1)	3/22/2016	15,083	5,005	CWIP will update to zero after reimbursement inclusion
PB-18.04	Eldorado Substation Transformer Bank Replacement (2)	7/1/2016	13,925	4,765	CWIP will update to zero after reimbursement inclusion
PB-19.11	Eldorado Sub- Install DGA on the 4AA bank	9/25/2020	1,012	113	CWIP will update to zero after reimbursement inclusion
PB-20.10	Eldorado Sub: Install phasor Measurement unit (PMU)	8/3/2023	3,755	3,288	CWIP will update to zero after 2024 recorded included
PB-20.18	Center: Install Phasor Measurement Units (PMU)	12/16/2022	315	291	CWIP will update to zero after 2024 recorded included
PB-20.20	Mohave Sub: Install phasor Measurement unit (PMU)	11/8/2022	1,436	548	CWIP will update to zero after reimbursement inclusion
PB-27.03	Eldorado Sub - R/R HVAC System (MEER)	12/10/2020	1,378	404	CWIP will update to zero after reimbursement inclusion
PB-30.05	CS-(ES-5090) Substation Physical Security Enhancements	12/31/2020	4,955	1,244	CWIP will update to zero after reimbursement inclusion
PB-45.05	NERC CIP Physical Security Project (FERC Order 802): CS- (ES-5090)	5/13/2020	21,481	6,123	CWIP will update to zero after reimbursement inclusion
SP-03	West of Devers Conductor Upgrade	5/14/2021	756,085	6,859	Pending Further Review
SP-06	Mesa Substation Expansion	5/31/2022	481,437	33	CWIP will update to zero after reimbursement inclusion
SP-40	WDAT315 - Casa Diablo 4 - Casa Diablo (D) Install interconnection facilities	12/22/2023	8,297	7,278	Pending Further Review
SP-44	Victory Pass Solar	9/3/2023	3,218	3,166	CWIP will update to zero after 2024 recorded included
SP-56	Athos Power Plant RNU (TOT849_Q1405)	10/8/2021	16,541	11,707	CWIP will update to zero after 2024 recorded included
SP-112	Eldorado - Sloan Canyon 220kV Interconnection	12/10/2019	7,724	1,608	Pending Further Review
SP-126	TOT910 (Q1642) Oberon	5/10/2023	8,015	7,954	Pending Further Review

Close Out & Next Steps

Antonio Ocegueda, Principal Manager
FERC Rates and Tariffs

Close Out & Next Steps

- Stakeholders to submit comments to ferccaseadmin@sce.com

  [Please cc: Jerry Huerta (jerry.huerta@sce.com)]

- Stakeholder questions and/or comments are to be submitted by **March 14**
  - SCE will respond to questions within 15 business days of receipt

- Project-specific follow-up questions and/or comments are to be submitted by **April 11**
  - SCE will respond to questions within 10 business days of receipt

- Stakeholder may provide comments to SCE by **April 30**

- Next TPR submission to occur on **June 2, 2025** (June 1 falls on a Sunday)

- In accordance with the CPUC Decision 25-01-040, SCE is now exempt from AB970 quarterly reporting requirements based on overlap with the TPR Process
  - In future TPR submittals, SCE will include the required addendum to capture all AB970 eligible projects that would otherwise be subject to the TPR >$1M threshold