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Attachment A
Questions for SCE Supplemental Testimony

SCE stated that it considered four different implementation approaches for replacing the AMI 1.0 generation of meters,¹ including:

- A baseline replacement of AMI 1.0 with AMI 2.0 hardware, an interoperable mesh communications network, and supporting back-office systems that would maintain only basic AMI functionality (Baseline Replacement);
- A limited upgrade adding increased wireless network capacity and software to use meters as intelligent devices (Limited Upgrade);
- A value upgrade adding dynamic load management software to deliver affordability and demand flexibility (Value Upgrade); and
- An approach that would add further wireless network enhancements and software to enable advanced capabilities such as targeted load shedding, and microgrid controller interfaces (Advanced AMI).

Of these options, SCE determined that the Value Upgrade approach was the “optimal choice” because it “provides the highest level of affordability benefits over the 20-year service life of the system.”² To support this assertion, SCE provided a summary of its analysis³ – addressing how the Value Upgrade approach would address affordability, reliability, and safety – and workpapers with five tables.⁴

1. Please indicate which information in the Application and/or workpapers addresses: 1) affordability, 2) reliability, and 3) safety.
2. If the Application and/or workpapers do not directly address affordability, reliability, and safety, please indicate how SCE

¹ Application at 5-6; Exhibit SCE-02, Volume 2.

² Application at 6.

³ Application at 6.

⁴ Exhibit SCE-02, Volume 2.

determined that Value Upgrade approach is the optimal choice to address these matters.

3. For each table in Exhibit SCE-02, Volume 2, provide a narrative of what information SCE considers most relevant for the Commission to consider in its review.
4. What additional capabilities did SCE consider under the Advanced AMI approach that are not part of the Value Upgrade approach?
5. If SCE wants to pursue additional AMI 2.0 capabilities in the future, such as those considered under the Advanced AMI approach, what additional capital investments would be necessary?
6. Describe the evaluation methodology used to compare the Baseline Replacement, Limited Upgrade, Value Upgrade, and Advanced AMI alternatives, including the assumptions, criteria, weighting of affordability, reliability, safety, operational flexibility, and customer benefits, and explain why the Value Upgrade ranked highest under that methodology.
7. What specific risks or uncertainties could cause the projected benefits of the Value Upgrade to not materialize, and how were those risks incorporated into the benefit-cost analysis?
8. Please provide the incremental costs, incremental benefits, and incremental Benefit-Cost Ratio associated with each of the following implementation approaches relative to Baseline Replacement:
 - A. Limited Upgrade
 - B. Value Upgrade
 - C. Advanced AMI.

Please identify the specific benefits responsible for the incremental value of each approach.

SCE provides cost forecasts for hardware, software, and subscriptions, among other line items.⁵ Please provide line-item accounting⁶ for:

9. Hardware capital costs;
10. Software capital costs; and
11. Subscription operations and maintenance (O&M) costs.

SCE provides a table of communications network hardware capital costs in Exhibit SCE-03 at 18.

12. The total in this table differs from the total of hardware capital costs in Exhibit SCE-03, Testimony Table IV-10. To what does SCE attribute the difference in cost forecasts?
13. Please explain how the lack of interoperability between AMI 1.0 and AMI 2.0 influenced SCE's proposed deployment strategy and cost estimates.
14. The table of communications network hardware capital costs includes the following items. Is this a complete list of all proposed network hardware capital costs?
 - Pole Top AP;
 - Repeaters;
 - Netcomm Meters Migrated to FAN;
 - Automation and Orchestration;
 - VPN Overlay;
 - VPN Overlay - Point to Point Replacement;
 - Backhaul from Carrier to SCE;
 - SIM Incremental Costs; and
 - Socket Based Router.

⁵ Exhibit SCE-03, Testimony Table IV-10, Testimony Table IV-11 at 15-16.

⁶ "Line items" refer to each entry in SCE's cost forecast on the most detailed level available.