BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

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In the Matter of the Application of SOUTHERN CALIFORNIA EDISON COMPANY (U338E) for a Permit to Construct Electrical Facilities With Voltages Between 50kV and 200 kV: Ivanpah-Control Project.	A.19-07-015

SECOND AMENDED APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U338E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50KV AND 200 KV: IVANPAH-CONTROL PROJECT

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Dated: **October 31, 2024**

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I.

INTRODUCTION

Pursuant to California Public Utilities Commission ("Commission" or "CPUC") Rule of Practice and Procedure 1.12 and Administrative Law Judge ("ALJ") Zhang's October 4, 2024 *Ruling Granting Motion to File Second Amended Application*, as amended by ALJ Zhang's October 8, 2024 *Email Ruling Motion for Extension of Time*, Southern California Edison Company ("SCE") hereby submits this second amended application ("Second Amended Application") for a Permit to Construct ("PTC") the Ivanpah-Control Project ("IC Project"). This Second Amended Application is necessary as SCE is reducing the scope of the IC Project. Due to increased customer load in the areas between Barstow, California and Primm, Nevada, SCE can no longer proceed with plans to derate a portion of the IC Project (Segment 4) and still reliably serve current load demands. As a result, SCE is removing Segment 4 from the IC Project.

II.

PROCEDURAL HISTORY

On July 17, 2019, SCE filed an application titled *Application Of Southern California Edison Company (U 338-E) For A Permit To Construct Electrical Facilities With Voltages Between 50kV And 200 kV: Ivanpah-Control Project* (the "Original Application") seeking issuance of a PTC from the CPUC for the IC Project, and SCE submitted a *Proponent's Environmental Assessment* ("Original PEA") for the IC Project concurrently with that Original Application. Notice of the filing of the Original Application was provided pursuant to section XI of CPUC General Order 131-D ("G.O. 131-D").

CPUC Rule 1.12(a) states that amendments to applications typically should be filed prior to the issuance of a scoping memo. An *Assigned Commissioner's Scoping Memo and Ruling* ("Scoping Memo") was issued on September 23, 2019. In 2020 SCE determined that it needed to file an Amended Application sought leave from then ALJ Yacknin in March 2020 to file an Amended Application. That request was granted and on April 13, 2020, and SCE filed an amended application titled *Amended Application of Southern California Edison Company (U 338-E) For A Permit to Construct Electrical Facilities with Voltages Between 50kV and 200 kV: Ivanpah-Control Project* (the "Amended Application") seeking issuance of a PTC from the CPUC for the IC Project. SCE submitted a new *Proponent's Environmental Assessment* ("Amended PEA" or "April 2020 PEA") for the IC Project concurrently with that Amended Application. Notice of the filing of the Amended Application was provided pursuant to section XI of CPUC General Order 131-D ("G.O. 131-D").

On March 25, 2024, SCE met with the CPUC's Energy Division to discuss the IC Project, namely changes to project scope made necessary as a result of emerging information regarding power loading that was unknown at the time the Amended Application was filed that would necessitate the removal Segment 4 from the scope of the IC Project. Based on this

conversation, SCE determined that it would file a second amended application for a PTC the IC Project.

In accordance with CPUC Rule 1.12(a), on August 22, 2024 SCE filed a motion seeking leave to file a Second Amended Application. On October 4, 2024, ALJ Zhang issued a ruling granting SCE's motion and directing SCE to file the Second Amended Application on or before October 18, 2024. Pursuant to CPUC Rule 11.6, on October 7, 2024 SCE made a motion seeking to extend the deadline for filing the Second Amended Application to October 31, 2024. ALJ Zhang granted SCE's motion on October 8, 2024.

Pursuant to G.O. 131-D and the ALJ's rulings, SCE respectfully submits this Second Amended Application for a PTC authorizing SCE to construct the IC Project. Amendments to the Amended Application, as revised by SCE's May 8, 2020 errata to the same, are shown in APPENDIX D with blue underlined text for additions and with red strikethrough for text that is deleted. Unless otherwise noted, all remaining portions of the Amended Application remain unchanged.

Pursuant to direction from Energy Division, and because the revisions to the IC Project scope only impact the work planned in Segment 4 and make no change to the rest of the IC Project scope, the Second Amended Application will rely on the April 2020 PEA prepared for the Amended Application.

III.

PROJECT SCOPE AND BACKGROUND

The purpose of the IC Project is to remediate physical clearance discrepancies identified on some of SCE's existing 115 kilovolt ("kV") subtransmission lines.[1] CPUC General Order 95 ("G.O. 95") Rules 37 through 39 specify minimum vertical and horizontal clearances to be

[1] SCE identifies electrical lines operated at voltages between 50 kV and 200 kV as subtransmission lines or subtransmission circuits. Electrical lines operated at voltages greater than 200 kV are identified as transmission lines.

maintained between an electrical conductor and other conductors, or between a conductor and the ground, buildings, and a variety of other objects. In 2006, SCE identified discrepancies along many of its circuits where minimum clearances are not being met compared to G.O. 95 standards.

In response, SCE established its Transmission Line Rating Remediation ("TLRR") Program. The TLRR Program is focused on developing and implementing engineering solutions for each identified discrepancy to bring the circuits into compliance with standards contained in G.O. 95 and the California Independent System Operator ("CAISO") 2008 Transmission Register. SCE is committed to undertaking all reasonable efforts to remediate all discrepancies on its bulk electric system facilities by 2025 and to fix all discrepancies on its 115 kV radial lines by 2030. All subtransmission lines which make up the IC Project are 115 kV and are also a part of the bulk electric system, and SCE is committed to undertaking all reasonable efforts to correct these discrepancies prior to December 31, 2025.

Pursuant to the TLRR Program, SCE identified approximately 2,950 discrepancies along the following 115 kV subtransmission line circuits:

- Control-Haiwee-Inyokern
- Control-Coso-Haiwee-Inyokern
- Kramer-Inyokern Randsburg No. 1
- Kramer-Coolwater
- Kramer-Tortilla
- Coolwater-SEGS2-Tortilla
- Ivanpah-Baker-Coolwater-Dunn Siding-Mountain Pass

These circuits are located in portions of unincorporated Inyo County, Kern County, and San Bernardino County, and within the City of Barstow, and the remediation of discrepancies along these specific circuits constitutes the scope of the IC Project.

As discussed in greater detail in the April 2020 PEA submitted in conjunction with this Amended Application, SCE has identified a variety of ways to accomplish the IC Project.

During the PEA preparation process, SCE identified a number of ways to remediate identified discrepancies along five subtransmission line segments spanning 358 miles between Ivanpah Substation and SCE's Control Substation and assessed them for feasibility and potential environmental impacts.[2]

Based on this analysis, SCE's Amended Application proposed fully rebuilding certain subtransmission line segments (Segments 1 and 2), reconductoring other subtransmission line segments (Segments 3N and 3S), and "derating" (*i.e.*, reducing the amount of current that wires are allowed to carry) conductors in another segment (Segment 4).

At the time the Amended Application was filed, SCE believed that Segment 4 could be derated. However, as time has passed during the licensing process, load in the area served by Segment 4 has outgrown SCE's prior projections. As a result, SCE can no longer derate Segment 4 and operate the system reliably. Therefore, SCE can no longer rely on derating to remediate the G.O. 95 discrepancies on Segment 4. SCE is evaluating how best to address both the

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[2] The five segments are comprised of the following:

- Segment 1 includes the Control-Coso-Haiwee-Inyokern 115 kV circuit and the Control-Haiwee-Inyokern 115 kV circuit. Segment 1 spans approximately 126 miles from the existing Control Substation in the north to the existing Inyokern Substation in the south.
- Segment 2 includes the Kramer-Inyokern-Randsburg No.1 115 kV circuit. This is a 'box loop' circuit, whereby two sets of conductors (six wires) are operated as a single circuit. Segment 2 spans approximately 48 miles from the existing Inyokern Substation in the north to the existing Kramer Substation in the south and includes the existing Randsburg Substation between the two.
- Segment 3N includes the Kramer-Coolwater 115 kV circuit. Segment 3N spans approximately 44 miles from the existing Kramer Substation in the west to the existing Coolwater Substation in the east.
- Segment 3S includes the Kramer-Tortilla 115 kV circuit and a portion of the Coolwater-SEGS2-Tortilla 115 kV circuit. Segment 3S spans approximately 44 miles from the existing Kramer Substation in the west to the existing Coolwater Substation in the east and includes the existing Tortilla Substation between the two.
- Segment 4 includes the Ivanpah-Baker-Coolwater-Dunn Siding-Mountain Pass 115 kV circuit. Segment 4 spans approximately 96 miles from the existing Coolwater Substation in the west to the existing Ivanpah Substation in the east, and includes the existing Dunn Siding, Baker, and Mountain Pass substations between the two.

increased load and the GO 95 discrepancies on the segment and expects to file an Application at a future date with a new scope of work.

SCE has revised its preferred and proposed scope of work for the IC Project ("Revised IC Project") to remove Segment 4 from the Project. The scope of work on the remaining segments is unchanged and consists of the following major components:

- Full rebuild of Segment 1;
- Full rebuild of Segment 2;
- Reconductor and replace structures on Segment 3N; and
- Reconductor and replace structures on Segment 3S.

Collectively, this revised scope of work replaces the previous scope of work described in the Amended Application. As noted above, the revised IC Project represents a reduction in physical work scope compared to the scope of the IC Project described in the Amended Application. In particular, SCE's revised IC Project would decrease environmental impacts by removing Segment 4 from the project.

IV.

SUMMARY OF SCOPE AND REQUEST

As described further in the April 2020 PEA *Chapter 2 – Project Purpose and Need and Objectives*, the IC Project is being proposed to meet the following objectives:

- Ensure compliance with CPUC General Order 95 and North American Electric Reliability Corporation ("NERC") Facility Ratings for the components associated with the IC Project.
- Continue to provide safe and reliable electrical service.
- Meet IC Project needs while minimizing environmental impacts.
- Design and construct the physical components of the IC Project in conformance with industry and/or SCE's approved engineering, design, and construction standards for substation and subtransmission system projects.

As presented in the April 2020 PEA Chapter 5, SCE analyzed six types of specific corrective actions through which G.O. 95 discrepancies may be remediated: 1) Decommission and Remove; 2) Operating Voltage Increase; 3) Energy Storage; 4) Derate Only; 5) Reconductor and Remediate Remaining G.O. 95 Discrepancies; and 6) Derate and Remediate Remaining GO 95 Discrepancies. Based on the results of the feasibility of each corrective action for each IC Project segment, five comprehensive Project Alternatives (A-E) were developed. These five alternatives do not correspond directly to the six types of corrective actions, but rather, as described further in Chapter 5 of the April 2020 PEA, they incorporate various components or some of the six corrective action types, sometimes in combinations.

As part of its evaluation of potential alternatives, SCE engaged in discussions with the CAISO regarding the viability of some of the comprehensive project alternatives. In particular, SCE requested that the CAISO line rating for certain circuits be lowered (*i.e.,* derated) with certain upgrades; that is, SCE requested that these circuits operate at a reduced amperage. Operating these circuits at a lower amperage would reduce the maximum operating temperature at which the conductors that comprise these circuits operate. The reduction in the operating temperature would cause the conductors to sag less, increasing the distance between the ground and the conductor. The reduction in sag would, in and of itself, allow for a reduced scope of work. Late in the first quarter of 2019, CAISO informed SCE that CAISO did not identify any concerns regarding the suitability of derating as a means to remediate discrepancies in Segment 3N, 3S, or 4. As a result, SCE incorporated derating as a corrective action into all alternatives described in Chapter 5 of the April 2020 PEA.

The Amended Application proposed remediating G.O. 95 discrepancies in Segment 4 by derating and replacing approximately 60 poles. At the time SCE filed the Amended Application loading levels in the area were low and SCE anticipated limited change to these loading levels in the future. However, in the years since the Amended Application was submitted, load growth in the area served by Segment 4 (including Barstow, Baker, and Mountain Pass) outpaced SCE's projections. As a result, a derated line would not serve current 2024 or projected future load

forecasts.[3] Therefore, SCE concluded that the proposal to remediate G.O. 95 discrepancies through derating is no longer feasible. Based on this conclusion, SCE has identified the Revised IC Project as its proposed project. In particular, the Revised IC Project includes the following components:

- **Subtransmission**
  - Remediate discrepancies along 262 miles of existing 115 kV subtransmission circuits by:
    - In Segments 1 and 2, removing all existing subtransmission towers and poles and replacing them with tubular steel poles ("TSPs"); lightweight steel ("LWS") poles; and steel multipole structures constructed from TSPs and LWS poles
    - In Segments 3N and 3S, removing some existing subtransmission towers and poles and replacing them with steel multipole structures constructed from TSPs; wood multipole structures; and steel and wood H-frames constructed from LWS and wood poles.
    - In Segments 3N and 3S, installing fault-return conductor on replacement LWS poles and/or LWS H-frames for grounding protection, where necessary.
    - Removing existing conductor and installing new Aluminum Conductor Composite Core ("ACCC") 'Dove' conductor on replacement and existing structures.
    - Installing overhead groundwire ("OHGW") in some locations for system protection.
- **Distribution**
  - Remove existing distribution conductor and appurtenances and install new distribution conductor and appurtenances on replacement structures.
- **Telecommunications/System Protection**
  - Install approximately 174 miles of optical groundwire ("OPGW") and/or All-Dielectric Self-Supporting ("ADSS") fiber optic cable overhead on replacement structures and new structures.

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[3] SCE is currently evaluating solutions to address outstanding G.O. 95 discrepancies in Segment 4 while continuing to provide reliable service for SCE's customers. SCE anticipates filing a separate Application for work in Segment 4 once this assessment is complete.

- Install approximately 1,390 feet of fiber optic cable underground within existing substations, and approximately 2,190 feet underground outside of existing substations.

- Install system protection and telecommunications-associated equipment at existing substations.

- **Substations**

  - Disconnect existing conductor from existing positions at substations and connect new conductor to those existing positions.

  - Install new OHGW and make minor modifications to the existing racks to accommodate the new OHGW.

  - Install cabling between existing breakers to the existing mechanical electrical equipment room ("MEER")/communication room/telecommunications cabinet and install new relay and protection racks in the existing MEER/communication room/telecommunications cabinet.

The estimated capital cost of the Revised IC Project is approximately $977 million in 2024 constant dollars.[4] A link to the April 2020 PEA prepared for the Amended Application, which discusses several alternatives to accomplish the IC Project's objectives (including a "No Project" alternative), is provided in Section IV.F.5 of this Second Amended Application. The April 2020 PEA will be referenced in this Second Amended Application, where appropriate, as the source of information required in an Application for a PTC[5] pursuant to G.O. 131-D, Section IX.B. A summary of the IC Project's purpose, need, and objectives is located in Chapter 2 of the April 2020 PEA. A complete description of the IC Project is located in Chapter 3 of the April 2020 PEA. The April 2020 PEA project description includes discussions of Segment 4. For purposes of evaluating this Application, any references to Segment 4 in the PEA should be disregarded.

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[4] This is a conceptual estimate, prepared in advance of final engineering and prior to CPUC approval. Pension and benefits, administrative and general expenses, and allowance for funds during construction are not included in these estimates.

[5] Other required information for a PTC application (*e.g.* Balance Sheet, Articles of Incorporation, *etc.*) is contained in this Application or its appendices.

Construction of the IC Project is expected to begin in 1st quarter 2027 and be completed by 3rd quarter 2030.[6] A detailed schedule for the IC Project is included in this Second Amended Application as APPENDIX C.

SCE requests that the Commission, upon completion of its review of this Second Amended Application, issue and certify an appropriate environmental document and issue a PTC authorizing SCE to construct the revised IC Project as set forth in this Second Amended Application and the April 2020 PEA within the timelines set forth in Section IV.H of this Second Amended Application.

V.

STATUTORY AND PROCEDURAL REQUIREMENTS

A. Applicant

The applicant is Southern California Edison Company ("SCE"), an electric public utility company organized and existing under the laws of the State of California. SCE's principal place of business is 2244 Walnut Grove Avenue, Post Office Box 800, Rosemead, California 91770. Please address correspondence or communications in regard to this Application to:

Lauren Goschke
Attorney
Southern California Edison Company
Post Office Box 800
Rosemead, California 91770
Phone: (626) 302-4906
Email: Lauren.P.Goschke@sce.com

[6] The proposed schedule assumes the approval process aligns with typical CPUC/CEQA review timelines.

With a copy to:

Case Administration
Southern California Edison Company
8631 Rush St.
Rosemead, California 91770
Phone: (626) 302-6906
Fax: (626) 302-5060
Email: case.admin@sce.com

B. Articles of Incorporation

Pursuant to Rule 2.2 of the Commission's Rules of Practice and Procedure, a copy of SCE's Certificate of D copy of SCE's Certificate of Amended and Restated Articles of Incorporation, effective on August 28, 2023, and presently in effect, certified by the California Secretary of State, was filed with the Commission on December 15, 2023, in connection with Application No. A.23-12-011, and is incorporated herein by this reference.

A copy of SCE's Certificate of Determination of Preferences of the Series M Preference Stock filed with the California Secretary of State on November 17, 2023, and presently in effect, certified by the California Secretary of State, was filed with the Commission on December 15, 2023, in connection with Application No. A.23-12-011, and is incorporated herein by this reference.

A copy of SCE's Certificate of Determination of Preferences of the Series N Preference Stock filed with the California Secretary of State on May 8, 2024, and presently in effect, certified by the California Secretary of State, was filed with the Commission on May 15, 2024, in connection with Application No. A.24-05-007, and is incorporated herein by this reference.

Copies of SCE's latest Annual Report to Shareholders and Edison International's latest proxy statement was sent to its stockholders and has been sent to the Commission with an Energy Division Central Files Document Coversheet dated March 18, 2024, pursuant to General Order Nos. 65-A and 104-A of the Commission.

C. Balance Sheet and Statement of Income

APPENDIX A to this Second Amended Application contains copies of SCE's balance sheet and statement of income for the period ending September 30, 2024. The balance sheet reflects SCE's utility plant at original cost, less accumulated depreciation.

Since 1954, pursuant to Commission Decision No. 49665 dated February 16, 1954, in Application No. 33952, as modified by Decision No. 91799 in 1980, SCE has utilized straightline remaining life depreciation for computing depreciation expense for accounting and ratemaking purposes in connection with its operations.

Pursuant to Commission Decision No. 59926, dated April 12, 1960, SCE uses accelerated depreciation for income tax purposes and "flows through" reductions in income tax to customers within the Commission's jurisdiction for property placed in service prior to 1981. Consistent with Decision No. 93848 in OII-24, SCE uses the Accelerated Cost Recovery System ("ACRS") and Modified Accelerated Cost Recovery System ("MACRS") for federal income tax purposes and "normalizes" reductions in income tax to customers for property placed in service after 1980 in compliance with the Economic Recovery Tax Act of 1981, and also in compliance with the Tax Reform Act of 1986. Pursuant to Decision No. 88-01-061, dated January 28, 1988, SCE uses a gross of tax interest rate in calculating the AFUDC Rate, and income tax normalization to account for the increased income tax expense occasioned by the Tax Relief Act of 1986 provisions requiring capitalization of interest during construction for income tax purposes.

D. Description of Southern California Edison Company

SCE is a corporation organized and existing under the laws of the State of California, and is primarily engaged in the business of generating, purchasing, transmitting, distributing and selling electric energy for light, heat, and power in portions of central and southern California as a public utility subject to the jurisdiction of the California Public Utilities Commission. SCE's properties, which are located primarily within the State of California, consist mainly of

hydroelectric and thermal electric generating plants, together with transmission and distribution lines and other property necessary in connection with its business.

E. Service Territory

SCE's service territory is located in 15 counties in central and southern California, consisting of Fresno, Imperial, Inyo, Kern, Kings, Los Angeles, Madera, Mono, Orange, Riverside, Santa Barbara, San Bernardino, Tulare, Tuolumne,[7] and Ventura Counties, and includes approximately 201 incorporated communities as well as outlying rural territories. A list of the counties and municipalities served by SCE is attached hereto as APPENDIX B. SCE also supplies electricity to certain customers for resale under tariffs filed with the Federal Energy Regulatory Commission.

F. Location of Items Required in Permit to Construct Pursuant to G.O. 131-D Section IX.B

Much of the information required to be included in a PTC application pursuant to G.O. 131-D, Section IX.B is found in the April 2020 PEA filed with the Amended Application.

Required PTC application information has been cross-referenced to the April 2020 PEA in the following text. The PTC application requirements of G.O. 131-D, Section IX.B are in ***bold italics***, and the April 2020 PEA references follow in bulleted plain text.

[7] SCE provides electric service to a small number of customer accounts in Tuolumne County and is not subject to franchise requirements.

1. ***A description of the proposed power line or substation facilities, including the proposed power line route; proposed power line equipment, such as tower design and appearance, heights, conductor sizes, voltages, capacities, substations, switchyards, etc., and a proposed schedule for authorization, construction, and commencement of operation of the facilities.***

- Descriptions of the Revised IC Project are found throughout the April 2020 PEA, including in Chapter 1, Chapter 2, Chapter 3, and Chapter 4. Descriptions of potential individual alternative corrective actions and comprehensive Project Alternatives are discussed in Chapter 5 of the April 2020 PEA. Descriptions of the Revised IC Project alignment, referring to the locations where work generally would be done, are described in the April 2020 PEA in Section 3.1 ("Project Location") and all subsections contained therein, and illustrated in Figures/Figuresets 1.1-1 ("IC Project Location"), 1.1-2 ("Project Overview, Segment 1" and "Project Overview Segments 2, 3N, 3S, and 4") and 3.1-1 ("Project Segments")

- The physical characteristics of the equipment proposed to be included in the Revised IC Project are described in the April 2020 PEA in Chapter 1, particularly in Section 1.1 ("Project Components") and Chapter 3, particularly in Sections 3.4 ("IC Project") and 3.5 ("Project Components"), and all subsections contained therein, and illustrated in Figures/Figuresets 3.5-1 ("Typical Structure Design"), 3.5-2 ("Independence Telecom Tap"), 3.5-3 ("Transmission Line Crossings"), 3.7-1 ("Material Yards"), 3.7-2 ("Telecommunications Underground Routes"), and 3.7-3 ("SCE Telecommunications Conduit Install Details"). The physical characteristics of alternatives to the Revised IC Project are described in April 2020 PEA

Chapter 5, particularly in Section 5.2 ("Description of Project Alternatives and Impact Analysis").

- The IC Project Schedule discussed in April 2020 PEA Section 3.7.6 ("Construction Schedule") is outdated. An updated construction schedule is attached to this Second Amended Application as APPENDIX C.

2. ***A map of the proposed power line routing or substation location showing populated areas, parks, recreational areas, scenic areas, and existing electrical transmission or power lines within 300 feet of the proposed route or substation.***

- Locations of the Revised IC Project alignment, which generally includes the locations where work would be done, are illustrated in April 2020 PEA Figures/Figuresets 1.1-1 ("IC Project Location"), 1.1-2 ("Project Overview, Segment 1" and "Project Overview Segments 2, 3N, 3S, and 4"), 3.1-1 ("Project Segments"), 3.5-2 ("Independence Telecom Tap"), 3.5-3 ("Transmission Line Crossings"), 3.7-1 ("Material Yards"), 3.7-2 ("Telecommunications Underground Routes"), and 4.7-1 ("Site Location Map").

- Maps and aerial photographs showing populated areas, parks, recreational areas, scenic areas, and land uses in the vicinity of the Revised IC Project alignment are provided in April 2020 PEA Figures/Figuresets 1.1-1 ("IC Project Location"), 1.1-2 ("Project Overview, Segment 1" and "Project Overview Segments 2, 3N, 3S, and 4"), 3.1-1 ("Project Segments"), 3.5-2 ("Independence Telecom Tap"), 3.5-3 ("Transmission Line Crossings"), 3.7-1 ("Material Yards"), 3.7-2 ("Telecommunications Underground Routes"), 4.1-1a ("Photograph Viewpoint Locations"), 4.1-1b ("Photograph Viewpoint Locations"), 4.1-1c ("BLM VRM Classifications"), 4.1-1d ("BLM VRM

Classifications"), 4.2-1 ("Prime Farmland, Unique Farmland, Farmland Of Statewide Importance"), 4.4-1 ("Ivanpah-Control Habitat Designations"), 4.4-2 ("Ivanpah-Control Sensitive Plant Species"), 4.4-3 ("Ivanpah-Control CNDDB Special-Status Plant Occurrences"), 4.4-4 ("Ivanpah-Control Sensitive Wildlife Species"), 4.4-5 ("Ivanpah-Control CNDDB Special-Status Wildlife Occurrences"), 4.4-6 ("Desert Tortoise Designated Critical Habitat"), 4.4-7 ("Yellow-Billed Cuckoo Proposed Critical Habitat"), 4.4-8 ("Mohave Ground Squirrel Probability of Occurrence"), 4.9-2 ("Airports and Airstrips"), 4.11-1 ("Land Use Designations"), 4.11-2 ("Zoning Designations"), 4.11-3 ("DRECP Land Designations"), 4.14-1 ("Cities, Reservations, And Census-Designated Places"), 4.15-1 ("Public Services Along The IC Project Alignment"), 4.16-1 ("Parks And Recreational Facilities"), 4.17-1 ("Truck Routes, Public Use Airports, And Railroads"), and 4.17-2 ("Potential Lane Closures And Road Crossings").

- Existing electrical system components along the Revised IC Project alignment and within 300 feet thereof are described in April 2020 PEA Section 3.1 ("Project Location") and all subsections contained therein, and Section 3.2 ("Existing System") and all subsections contained therein, and are mapped/illustrated in Figures/Figuresets 3.1-1 ("Project Segments"), 3.2-1 ("Existing System") and 3.5-3 ("Transmission Line Crossings"), 3.7-2 ("Telecommunications Underground Routes"), and 4.7-1 ("Site Location Map").

3. ***Reasons for adoption of the power line route or substation location selected, including comparison with alternative routes or locations, including the advantages and disadvantages of each.***

- Reasons for the construction of the Revised IC Project, including the challenges and additional environmental impacts associated with alternative sites, can be found in April 2020 PEA Chapters 1, 2 and 5. As discussed in the April 2020 PEA, the IC Project involves remediation of clearance discrepancies on existing subtransmission infrastructure within an established IC Project alignment. Substantial deviation from that alignment would not be a reasonable approach to accomplishing the IC Project's objectives.

4. ***A listing of the governmental agencies with which proposed power line route or substation location reviews have been undertaken, including a written agency response to applicant's written request for a brief position statement by that agency. (Such listing shall include The Native American Heritage Commission, which shall constitute notice on California Indian Reservation Tribal governments.) In the absence of a written agency position statement, the utility may submit a statement of its understanding of the position of such agencies.***

- April 2020 PEA Section 1.4 ("Agency Coordination") describes the outreach that SCE has conducted to date with lead agencies and other agencies, including the CPUC, Bureau of Land Management ("BLM"), the counties of Inyo, Kern and San Bernardino, the City of Barstow, China Lake Naval Air Warfare Station, Edwards Air Force Base, Marine Corps Logistics Base Barstow, California Department of Transportation, California State Lands Commission, and Los Angeles Department of Water and Power. None of these agencies has expressed any objections with respect to the IC Project. It

is SCE's understanding that the BLM reviewed the April 2020 PEA and that the agency is evaluating the IC Project, along with alternative routes.

- April 2020 PEA Section 4.5.3.1.2 describes SCE's efforts with respect to Native American Coordination. The Native American Heritage Commission ("NAHC") maintains two databases to assist cultural resources specialists in identifying cultural resources of concern to California Native Americans. On December 7, 2018, SCE's consultant, SWCA Environmental Consultants, contacted the NAHC to obtain information about known cultural and tribal cultural resources and request a list of Native American tribal representatives who may have a cultural affiliation with the proposed project area. The NAHC responded on December 28, 2018, stating that the Sacred Lands File ("SLF") database includes previously identified sacred sites in the vicinity of the proposed project. In consideration of these culturally significant sacred sites, the NAHC suggested contacting two Native American tribes for more information. The NAHC also forwarded a list of 12 Native American groups or individuals that are culturally affiliated with the project area. The results of the NAHC SLF search have been provided to the CPUC and BLM for use in their respective Native American consultation efforts.

5. ***A PEA or equivalent information on the environmental impact of the project in accordance with the provisions of CEQA and this Commission's Rules of Practice and Procedure Rule 2.4 [formerly 17.1 and 17.3]. If a PEA is filed, it may include the data described in Items a. through d. above.***

- SCE submitted a PEA with the Amended Application in April 2020. A copy of the April 2020 PEA is available at:

https://ia.cpuc.ca.gov/environment/info/aspen/ivanpah-control/toc-amended_pea.htm.

G. Compliance with G.O. 131-D, Section X

G.O. 131-D, Section X, requires applications for a PTC to describe measures taken to reduce potential exposure to electric and magnetic fields ("EMF") generated by the proposed facilities. A complete description of EMF-related issues is contained in SCE's EMF Field Management Plan for the IC Project (the "April 2020 FMP"), attached as APPENDIX F to the Amended Application.

H. Compliance with Rule 2.1(c)

In compliance with Rule 2.1(c) of the Commission's Rules of Practice and Procedure (California Code of Regulations, Title 20), SCE is required to state in this Application "[t]he proposed category for the proceeding, the need for hearing, the issues to be considered including relevant safety considerations, and a proposed schedule." SCE proposes to categorize this Second Amended Application as a rate-setting proceeding. SCE anticipates that a hearing will not be necessary. This proceeding involves the Commission's: (1) environmental review of the revised IC Project in compliance with G.O. 131-D and the California Environmental Quality Act ("CEQA") (Pub. Resources Code § 21000 *et seq*.); and (2) issuance of a PTC authorizing SCE to construct the revised IC Project.

SCE workers and contractors are required to implement and enforce the SCE Accident Prevention Manual, which is a companywide manual containing safety rules and policies. These rules and policies cover work performed in every organizational unit, from office and workplace safety to construction sites, and for operating and maintaining substations and steam generation stations.

SCE suggests the following proposed schedule for this Second Amended Application:

Date	Event
October 2024	Second Amended Application Filed
December 2024	Second Amended Application Deemed Complete
May 2025	Draft CEQA Document Issued
October 2025	Final CEQA Document Issued
February 2026	Proposed Decision Issued
June 2026	Final Decision

I. Statutory Authority

This Application is made pursuant to the provisions of CEQA, G.O. 131-D, the Commission's Rules of Practice and Procedure, and prior orders and resolutions of the Commission.

J. Public Notice

Pursuant to guidance from the CPUC Energy Division, public notice of this Second Amended Application under G.O. 131-D, Section XI.A is not required, as the original notice was inclusive of all work that would occur under the new (reduced) project scope. A copy of the Notice of Amended Application for a Permit to Construct and list of newspapers which published the original notice are contained in APPENDIX D to the Amended Application. A copy of the Certificate of Service of Notice of Amended Application for a Permit to Construct and a service list are contained in APPENDIX E to the Amended Application.

K. Supporting Appendices

Appendices A through D listed below, and the April 2020 PEA, are made a part of this Second Amended Application:

APPENDIX A	Balance Sheet and Statement of Income as of September 30, 2024.
APPENDIX B	List of Counties and Municipalities Served by SCE
APPENDIX C	Ivanpah-Control Project Schedule
APPENDIX D	Amendments to SCE's *Amended Application Of Southern California Edison Company (U 338-E) For A Permit To Construct Electrical Facilities With Voltages Between 50kv And 200 kV: Ivanpah-Control Project*, filed April 13, 2020

L. Compliance with Rule 2.5

Rule 2.5 of the Commission's Rules of Practice and Procedure provides that an applicant include a deposit to be applied to the costs the Commission incurs to prepare a negative declaration or an environmental impact report when the Commission is acting as the lead agency pursuant to CEQA. In accordance with Rule 2.5, SCE has already submitted a deposit to be applied to the costs the Commission incurs to prepare a negative declaration or an environmental impact report for the revised IC Project.

M. Request for Ex Parte Relief

SCE requests that the relief requested in this Second Amended Application be provided *ex parte* as provided for in G.O. 131-D, Section IX.B.6.

N. Request for Timely Relief

SCE requests the Commission issue a decision within the time limits prescribed by Government Code Section 65920 *et seq*. (the Permit Streamlining Act) as provided for in G.O. 131-D, Section IX.B.6.

VI.

CONCLUSION

SCE respectfully requests the Commission issue a PTC authorizing SCE to construct the revised IC Project described in this Second Amended Application and April 2020 PEA. SCE further requests that the relief be provided *ex parte* and within the time limits prescribed by the Permit Streamlining Act.

Respectfully submitted,

SOUTHERN CALIFORNIA EDISON COMPANY

/s/ Heather Rivard

By: Heather Rivard
Vice President Transmission, Substations and Operations

/s/ Lauren P. Goschke

By: Lauren P. Goschke

Attorney for
SOUTHERN CALIFORNIA EDISON COMPANY

2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770
Telephone: (626) 302-4906
Facsimile: (626) 302-1910
E-mail: Lauren.P.Goschke@sce.com

October 31, 2024

VERIFICATION

I am an officer of the applicant corporation herein, and am authorized to make this verification on its behalf. I am informed and believe that the matters stated in the foregoing document are true.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this **30th day of October, 2024**, at Westminster, California.

/s/ Heather Rivard

By: Heather Rivard
Vice President Transmission, Substations and Operations
SOUTHERN CALIFORNIA EDISON COMPANY

Appendix A

Balance Sheet and Statement of Income as of September 30, 2024

SOUTHERN CALIFORNIA EDISON COMPANY

(h) A balance sheet as of the latest available date, together with an income statement covering the period from close of last year for which an annual report has been filed with the Commission to the date of the balance sheet attached to the application.

STATEMENT OF INCOME
NINE MONTHS ENDED SEPTEMBER 30, 2024

(In millions)

OPERATING REVENUE	$ 13,576
OPERATING EXPENSES:	
Purchase power and fuel	4,140
Operation and maintenance	3,913
Wildfire-related claims, net of insurance recoveries	614
Wildfire insurance fund expense	109
Depreciation and amortization	2,136
Property and other taxes	474
Total operating expenses	11,386
OPERATING INCOME	2,190
Interest expense	(1,185)
Other income, net	408
INCOME BEFORE TAXES	1,413
	94
NET INCOME	1,319
Less: Preference stock dividend requirements	129
NET INCOME AVAILABLE FOR COMMON STOCK	$ 1,190

SOUTHERN CALIFORNIA EDISON COMPANY

BALANCE SHEET
SEPTEMBER 30, 2024
ASSETS
(in millions)

UTILITY PLANT:		
Utility plant, at original cost	$	66,279
Less- accumulated provision for depreciation and amortization		13,833
		52,446
Construction work in progress		5,521
Nuclear fuel - at amortized cost		125
		58,092
OTHER PROPERTY AND INVESTMENTS:		
Nonutility property - less accumulated depreciation of $107		199
Nuclear decommissioning trusts		4,424
Other investments		32
		4,655
CURRENT ASSETS:		
Cash and equivalents		91
Receivables, less allowances of $340 for uncollectible accounts		2,772
Accrued unbilled revenue		1,200
Inventory		533
Prepaid expenses		103
Regulatory assets		2,168
Wildfire insurance fund contributions		138
Other current assets		314
		7,319
DEFERRED CHARGES:		
Regulatory assets (Includes $1,524 related to VIEs)		8,660
Wildfire insurance fund contributions		1,913
Operating lease right-of-use assets		1,173
Long-term insurance receivables		118
Long-term insurance receivables due from affiliate		281
Other long-term assets		2,312
		14,457
	$	84,523

SOUTHERN CALIFORNIA EDISON COMPANY

BALANCE SHEET
SEPTEMBER 30, 2024
CAPITALIZATION AND LIABILITIES
(in millions)

CAPITALIZATION:	
Common stock	2,168
Additional paid-in capital	8,436
Accumulated other comprehensive loss	(10)
Retained earnings	8,385
Common shareholder's equity	18,979
Long-term debt (Includes $1,492 related to VIEs)	28,582
Preferred stock	2,495
Total capitalization	50,056
CURRENT LIABILITIES:	
Short-term debt	548
Current portion of long-term debt	1,248
Accounts payable	2,191
Wildfire-related claims	39
Accrued interest	367
Regulatory liabilities	874
Current portion of operating lease liabilities	123
Other current liabilities	2,104
	7,494
DEFERRED CREDITS:	
Deferred income taxes and credits	8,470
Pensions and benefits	105
Asset retirement obligations	2,531
Regulatory liabilities	10,310
Operating lease liabilities	1,050
Wildfire-related claims	1,055
Other deferred credits and other long-term liabilities	3,452
	26,973
	$ 84,523

Appendix B

List of Counties and Municipalities Served by SCE

SOUTHERN CALIFORNIA EDISON®
Energy for What's Ahead®

INCORPORATED CITIES AND COUNTIES SERVED BY SCE

COUNTIES

Fresno	Kern	Madera	Riverside	Tuolumne
Imperial	Kings	Mono	San Bernardino	Tulare
Inyo	Los Angeles	Orange	Santa Barbara	Ventura

CITIES

Adelanto
Agoura Hills
Alhambra
Aliso Viejo
Apple Valley
Arcadia
Artesia
Avalon
Baldwin Park
Barstow
Beaumont
Bell
Bell Gardens
Bellflower
Beverly Hills
Bishop
Blythe
Bradbury
Brea
Buena Park
Calabasas
California City
Calimesa
Camarillo
Canyon Lake
Carpinteria
Carson
Cathedral City
Cerritos
Chino
Chino Hills
Claremont
Commerce
Compton
Corona
Costa Mesa
Covina
Cudahy
Culver City
Cypress
Delano
Desert Hot Springs
Diamond Bar
Downey
Duarte
Eastvale
El Monte
El Segundo
Exeter
Farmersville
Fillmore
Fontana
Fountain Valley
Fullerton
Garden Grove
Gardena
Glendora
Goleta
Grand Terrace
Hanford
Hawaiian Gardens
Hawthorne
Hemet
Hermosa Beach
Hesperia
Hidden Hills
Highland
Huntington Beach
Huntington Park
Indian Wells
Industry
Inglewood
Irvine
Irwindale
Jurupa Valley
La Canada Flintridge
La Habra
La Habra Heights
La Mirada
La Palma
La Puente
La Verne
Laguna Beach
Laguna Hills
Laguna Niguel
Laguna Woods
Lake Elsinore
Lake Forest
Lakewood
Lancaster
Lawndale
Lindsay
Loma Linda
Lomita
Long Beach
Los Alamitos
Lynwood
Malibu
Mammoth Lakes
Manhattan Beach
Maywood
McFarland
Menifee
Mission Viejo
Monrovia
Montclair
Montebello
Monterey Park
Moorpark
Moreno Valley
Murrieta
Newport Beach
Norco
Norwalk
Ojai
Ontario
Orange
Oxnard
Palm Desert
Palm Springs
Palmdale
Palos Verdes Estates
Paramount
Perris
Pico Rivera
Placentia
Pomona
Port Hueneme
Porterville
Rancho Cucamonga
Rancho Mirage
Rancho Palos Verdes
Rancho Santa Margarita
Redlands
Redondo Beach
Rialto
Ridgecrest
Rolling Hills
Rolling Hills Estates
Rosemead
San Bernardino
San Dimas
San Fernando
San Gabriel
San Jacinto
San Marino
Santa Ana
Santa Barbara
Santa Clarita
Santa Fe Springs
Santa Monica
Santa Paula
Seal Beach
Sierra Madre
Signal Hill
Simi Valley
South El Monte
South Gate
South Pasadena
Stanton
Tehachapi
Temecula
Temple City
Thousand Oaks
Torrance
Tulare
Tustin
Twentynine Palms
Upland
Ventura
Victorville
Villa Park
Visalia
Walnut
West Covina
West Hollywood
Westlake Village
Westminster
Whittier
Wildomar
Woodlake (Three Rivers)
Ventura
Yorba Linda
Yucaipa
Yucca Valley

Updated: 4/25/2019

Appendix C

Ivanpah-Control Project

Project Schedule

Proposed Ivanpah-Control Project Schedule

Date	Event
April 2020	Amended Application Filed
September 2020	Initial Study Issued
May 2023	Amended Application Deemed Complete
October 2024	Second Amended Application Filed
December 2024	Second Amended Application Deemed Complete
May 2025	Draft CEQA Document Issued
October 2025	Final CEQA Document Issued
February 2026	Proposed Decision Issued
June 2026	Final Decision
April 2027	Construction Start
October 2030	Commence Operation

Appendix D

Amendments to SCE's *Amended Application Of Southern California Edison Company (U 338-E) For A Permit To Construct Electrical Facilities With Voltages Between 50kv And 200 kV: Ivanpah-Control Project, filed April 13, 2020*

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE

STATE OF CALIFORNIA

In the Matter of the Application of SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) for a Permit to Construct Electrical Facilities With Voltages Between 50kV and 200 kV: Ivanpah-Control Project.	A.19-07-015

SECOND AMENDED APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50KV AND 200 KV: IVANPAH-CONTROL PROJECT

~~BETH A. GAYLORD~~
ROBERT D. PONTELLE
LAUREN P. GOSCHKE

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E-mail:
~~Robert.Pontelle~~Lauren.P.Goschke@sce.com

~~Date~~Dated: ~~April 13~~ October 31, ~~2020~~2024

~~Amended Application of Southern California Edison Company (U 338-E) for a Permit to Construct Electrical Facilities With Voltages Between 50 kV And 200 kV: Ivanpah Control Project~~

SECOND AMENDED APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U338E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50KV AND 200 KV: IVANPAH-CONTROL PROJECT

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SECOND AMENDED APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U338E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50KV AND 200 KV: IVANPAH-CONTROL PROJECT Error! Reference source not found.

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~~Amended Application of Southern California Edison Company (U 338-E) for a Permit to Construct Electrical Facilities With Voltages Between 50 kV And 200 kV: Ivanpah Control Project~~

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BEFORE THE PUBLIC UTILITIES COMMISSION OF THE

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In the Matter of the Application of SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) for a Permit to Construct Electrical Facilities With Voltages Between 50kV and 200 kV: Ivanpah-Control Project.	A.19-07-015

SECOND AMENDED APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50KV AND 200 KV: IVANPAH-CONTROL PROJECT

I.

INTRODUCTION

Pursuant to California Public Utilities Commission ("Commission" or "CPUC") Rule of Practice and Procedure 1.12 and Administrative Law Judge ("ALJ") ~~Hallie Yacknin's March 3, 2020 E-mail~~Zhang's October 4, 2024 *Ruling Granting ~~Leave to Amend~~Motion to File Second Amended Application*, as amended by ALJ Zhang's October 8, 2024 *Email Ruling Motion for Extension of Time*, Southern California Edison Company ("SCE") hereby submits this second amended application ("Second Amended Application") for a Permit to Construct ("PTC") ~~for~~ the Ivanpah-Control Project ("IC Project"). This Second Amended Application is necessary as SCE is reducing the scope of the IC Project. Due to increased customer load in the areas between Barstow, California and Primm, Nevada, SCE can no longer proceed with plans to derate a portion of the IC Project (Segment 4) and still reliably serve current load demands. As a result, SCE is removing Segment 4 from the IC Project.

II.

PROCEDURAL HISTORY

On July 17, 2019, SCE filed an application titled *Application Of Southern California Edison Company (U 338-E) For A Permit To Construct Electrical Facilities With Voltages Between 50kV And 200 kV: Ivanpah-Control Project* (the "Original Application") seeking issuance of a PTC from the CPUC for the IC Project, and SCE submitted a *Proponent's Environmental Assessment* ("Original PEA") for the IC Project concurrently with that Original Application. Notice of the filing of the Original Application was provided pursuant to section XI of CPUC General Order 131-D ("G.O. 131-D").

CPUC Rule 1.12(a) states that amendments to applications typically should be filed prior to the issuance of a scoping memo. ~~In this proceeding, although an~~An *Assigned Commissioner's Scoping Memo and Ruling* ("Scoping Memo"~~"~~) was issued on September 23, 2019~~, ALJ Yacknin's March 3, 2020 e-mail ruling granted SCE leave to amend its application subsequent to the issuance of the Scoping Memo.~~. In 2020 SCE determined that it needed to file an Amended Application sought leave from then ALJ Yacknin in March 2020 to file an Amended Application. That request was granted and on April 13~~On July 17~~, ~~2019~~2020, and SCE filed an amended application ~~entitled~~titled *Amended Application ~~Of~~of Southern California Edison Company (U 338-E) For A Permit ~~To~~to Construct Electrical Facilities ~~With~~with Voltages Between 50kV ~~And~~and 200 kV: Ivanpah-Control Project* (the "~~Original~~Amended Application") seeking issuance of a PTC from the CPUC for the IC Project~~, and~~. SCE submitted a new *Proponent's Environmental Assessment* ("~~Original~~Amended PEA" or "April 2020 PEA") for the IC Project concurrently with that ~~Original~~Amended Application. Notice of the filing of the ~~Original~~Amended Application was provided pursuant to section XI of CPUC General Order 131-D ("G.O. 131-D").

On ~~August 14~~March 25, ~~2019~~2024, SCE met with the CPUC's Energy Division ~~sent a letter to SCE indicating that it had determined that the Original Application was incomplete and that certain revisions were required in order to establish a complete application (the "Deficiency Letter"). In~~

~~response to the Deficiency Letter and other~~to discuss the IC Project, namely changes to project scope made necessary as a result of emerging information ~~that had become available to SCE subsequent to the filing of the Original Application~~regarding power loading that was unknown at the time the Amended Application was filed that would necessitate the removal Segment 4 from the scope of the IC Project. Based on this conversation, SCE determined that ~~the proposed IC Project scope should be modified and an~~it would file a second amended application for a PTC ~~for~~ the IC Project ~~should be filed to replace the Original Application. Pursuant to~~ .

In accordance with CPUC Rule 1.12(a), on August 22, 2024 SCE filed a motion seeking leave to file a Second Amended Application. On October 4, 2024, ALJ Zhang issued a ruling granting SCE's motion and directing SCE to file the Second Amended Application on or before October 18, 2024. Pursuant to CPUC Rule 11.6, on October 7, 2024 SCE made a motion seeking to extend the deadline for filing the Second Amended Application to October 31, 2024. ALJ Zhang granted SCE's motion on October 8, 2024.

Pursuant to G.O. 131-D and the ALJ's rulings, SCE respectfully submits this Second Amended Application for a PTC authorizing SCE to construct the IC Project. Amendments to the ~~Original~~Amended Application, as revised by SCE's May 8, 2020 errata to the same, are shown in APPENDIX ~~G~~D with blue underlined text for additions and with red strikethrough for text that is deleted. Unless otherwise noted, all remaining portions of the ~~Original~~Amended Application remain unchanged.

~~In addition, SCE has also prepared a PEA that analyzes the revised IC Project scope (the "April 2020 PEA"). The April 2020 PEA supersedes in its entirety the Original PEA dated July 2019 which was submitted in conjunction with SCE's Original Application. The April 2020 PEA is being submitted concurrently with this Amended Application.~~

Pursuant to direction from Energy Division, and because the revisions to the IC Project scope only impact the work planned in Segment 4 and make no change to the rest of the IC Project scope, the Second Amended Application will rely on the April 2020 PEA prepared for the Amended Application.

III. ~~II.~~

PROJECT SCOPE AND BACKGROUND

The purpose of the IC Project is to remediate physical clearance discrepancies identified on some of SCE's existing 115 kilovolt ("kV") subtransmission lines.[1] CPUC General Order 95 ("G.O. 95") Rules 37 through 39 specify minimum vertical and horizontal clearances to be maintained between an electrical conductor and other conductors, or between a conductor and the ground, buildings, and a variety of other objects. In 2006, SCE identified discrepancies along many of its circuits where minimum clearances are not being met compared to G.O. 95 standards.

In response, SCE established its Transmission Line Rating Remediation ("TLRR") Program. The TLRR Program is focused on developing and implementing engineering solutions for each identified discrepancy to bring the circuits into compliance with standards contained in G.O. 95 and the California Independent System Operator ("CAISO") 2008 Transmission Register. SCE is committed to undertaking all reasonable efforts to remediate all discrepancies on its bulk electric system facilities by 2025 and to fix all discrepancies on its 115 kV radial lines by 2030. All subtransmission lines which make up the IC Project are 115 kV and are also a part of the bulk electric system, and SCE is committed to undertaking all reasonable efforts to correct these discrepancies prior to ~~January 1~~December 31, 2025.

Pursuant to the TLRR Program, SCE identified approximately 2,950 discrepancies along the following 115 kV subtransmission line circuits:

- Control-Haiwee-Inyokern
- Control-Coso-Haiwee-Inyokern
- Kramer-Inyokern Randsburg No. 1
- Kramer-Coolwater
- Kramer-Tortilla

---

[1] SCE identifies electrical lines operated at voltages between 50 kV and 200 kV as subtransmission lines or subtransmission circuits. Electrical lines operated at voltages greater than 200 kV are identified as transmission lines.

- Coolwater-SEGS2-Tortilla
- Ivanpah-Baker-Coolwater-Dunn Siding-Mountain Pass

These circuits are located in portions of unincorporated Inyo County, Kern County, and San Bernardino County, and within the City of Barstow, and the remediation of discrepancies along these specific circuits constitutes the scope of the IC Project.

As discussed in greater detail in the April 2020 PEA submitted in conjunction with this Amended Application, SCE has identified a variety of ways to accomplish the IC Project. During the PEA preparation process, SCE identified a number of ways to remediate identified discrepancies along five subtransmission line segments spanning 358 miles between Ivanpah Substation and SCE's Control Substation and assessed them for feasibility and potential environmental impacts.[2] ~~In addition, SCE also pledged to continue analyzing additional methods to remediate discrepancies, even after the Original Application was filed. Therefore, to ensure that the broadest possible scope of work (and consequently the broadest scope of potential environmental impacts) would be analyzed, SCE's~~

---

[2] The five segments are comprised of the following:

- Segment 1 includes the Control-Coso-Haiwee-Inyokern 115 kV circuit and the Control-Haiwee-Inyokern 115 kV circuit. Segment 1 spans approximately 126 miles from the existing Control Substation in the north to the existing Inyokern Substation in the south.
- Segment 2 includes the Kramer-Inyokern-Randsburg No.1 115 kV circuit. This is a 'box loop' circuit, whereby two sets of conductors (six wires) are operated as a single circuit. Segment 2 spans approximately 48 miles from the existing Inyokern Substation in the north to the existing Kramer Substation in the south and includes the existing Randsburg Substation between the two.
- Segment 3N includes the Kramer-Coolwater 115 kV circuit. Segment 3N spans approximately 44 miles from the existing Kramer Substation in the west to the existing Coolwater Substation in the east.
- Segment 3S includes the Kramer-Tortilla 115 kV circuit and a portion of the Coolwater-SEGS2-Tortilla 115 kV circuit. Segment 3S spans approximately 44 miles from the existing Kramer Substation in the west to the existing Coolwater Substation in the east and includes the existing Tortilla Substation between the two.
- Segment 4 includes the Ivanpah-Baker-Coolwater-Dunn Siding-Mountain Pass 115 kV circuit. Segment 4 spans approximately 96 miles from the existing Coolwater Substation in the west to the existing Ivanpah Substation in the east, and includes the existing Dunn Siding, Baker, and Mountain Pass substations between the two.

~~Original PEA analyzed the impacts of an IC Project that would involve full demolition and rebuilding of all five segments. Nevertheless, despite that conservative~~

Based on this analysis ~~in the Original PEA~~, SCE's ~~Original~~Amended Application ~~declared that SCE's preferred scope for the IC Project would involve a lesser-scale alternative – namely,~~proposed fully rebuilding certain subtransmission line segments (~~*i.e.,*~~ Segments 1~~,~~ and 2), reconductoring other subtransmission line segments (Segments 3N and 3S) ~~while~~, and "derating" (*i.e.*, reducing the amount of current that wires are allowed to carry) conductors in ~~other segments (*i.e.*, Segment 3N and~~ another segment (Segment 4).

~~However, as it pledged to do, SCE continued to analyze alternative methods for remediating discrepancies on these five circuits, even after the Original Application was filed. As a result of that effort, SCE determined that certain methods would accomplish the necessary remediation with less environmental impact than the scope of work described in the Original Application. Therefore, SCE has revised its preferred and proposed scope of work for the IC Project to consist of the following major components:~~

At the time the Amended Application was filed, SCE believed that Segment 4 could be derated. However, as time has passed during the licensing process, load in the area served by Segment 4 has outgrown SCE's prior projections. As a result, SCE can no longer derate Segment 4 and operate the system reliably. Therefore, SCE can no longer rely on derating to remediate the G.O. 95 discrepancies on Segment 4. SCE is evaluating how best to address both the increased load and the GO 95 discrepancies on the segment and expects to file an Application at a future date with a new scope of work.

SCE has revised its preferred and proposed scope of work for the IC Project ("Revised IC Project") to remove Segment 4 from the Project. The scope of work on the remaining segments is unchanged and consists of the following major components:

- Full rebuild of Segment 1;
- Full rebuild of Segment 2;
- Reconductor and replace structures on Segment 3N; and

- Reconductor and replace structures on Segment 3S~~; and~~ .

~~• Derate and replace structures on Segment 4.~~

Collectively, this revised scope of work replaces the previous scope of work described in the ~~Original~~Amended Application. As noted above, the revised IC Project represents a reduction in physical work scope compared to the scope of the IC Project described in the ~~Original~~Amended Application. In particular, SCE's revised IC Project would decrease environmental impacts by ~~reconductoring, rather than rebuilding,~~removing Segment ~~3N and derating Segment 3S~~4 from the project.

IV.~~III.~~

SUMMARY OF SCOPE AND REQUEST

As described further in the April 2020 PEA *Chapter 2 – Project Purpose and Need and Objectives*, the IC Project is being proposed to meet the following objectives:

- Ensure compliance with CPUC General Order 95 and North American Electric Reliability Corporation ("NERC") Facility Ratings for the components associated with the IC Project.
- Continue to provide safe and reliable electrical service.
- Meet IC Project needs while minimizing environmental impacts.
- Design and construct the physical components of the IC Project in conformance with industry and/or SCE's approved engineering, design, and construction standards for substation and subtransmission system projects.

As presented in the April 2020 PEA Chapter 5, SCE analyzed six types of specific corrective actions through which G.O. 95 discrepancies may be remediated: 1) Decommission and Remove; 2) Operating Voltage Increase; 3) Energy Storage; 4) Derate Only; 5) Reconductor and Remediate Remaining G.O. 95 Discrepancies; and 6) Derate and Remediate Remaining GO 95 Discrepancies. Based on the results of the feasibility of each corrective action for each IC Project segment, five comprehensive Project Alternatives (A-E) were developed. These five alternatives do not correspond directly to the six types of corrective actions, but rather, as described further in Chapter 5 of the April

2020 PEA, they incorporate various components or some of the six corrective action types, sometimes in combinations.

As part of its evaluation of potential alternatives, SCE engaged in discussions with the CAISO regarding the viability of some of the comprehensive project alternatives. In particular, SCE requested that the CAISO line rating for certain circuits be lowered (*i.e.,* derated) with certain upgrades; that is, SCE requested that these circuits operate at a reduced amperage. Operating these circuits at a lower amperage ~~will~~would reduce the maximum operating temperature at which the conductors that comprise these circuits operate. The reduction in the operating temperature ~~will~~would cause the conductors to sag less, increasing the distance between the ground and the conductor. The reduction in sag ~~will~~would, in and of itself, allow for a reduced scope of work. Late in the first quarter of 2019, CAISO informed SCE that CAISO did not identify any concerns regarding the suitability of derating as a means to remediate discrepancies in Segment 3N, 3S, or 4. As a result, SCE incorporated derating as a corrective action into all alternatives described in Chapter 5 of the April 2020 PEA.

The Amended Application proposed remediating G.O. 95 discrepancies in Segment 4 by derating and replacing approximately 60 poles. At the time SCE filed the Amended Application loading levels in the area were low and SCE anticipated limited change to these loading levels in the future. However, in the years since the Amended Application was submitted, load growth in the area served by Segment 4 (including Barstow, Baker, and Mountain Pass) outpaced SCE's projections. As a result, a derated line would not serve current 2024 or projected future load forecasts.[3] Therefore, SCE concluded that the proposal to remediate G.O. 95 discrepancies through derating is no longer feasible. Based on this conclusion, SCE has identified the Revised IC Project as its proposed project. In particular, the Revised IC Project includes the following components:

~~In addition, even after the Original Application was filed, SCE continued to expand its analysis of corrective actions for remediating G.O. 95 discrepancies. In Fall 2019, SCE concluded that~~

[3] SCE is currently evaluating solutions to address outstanding G.O. 95 discrepancies in Segment 4 while continuing to provide reliable service for SCE's customers. SCE anticipates filing a separate Application for work in Segment 4 once this assessment is complete.

~~reconductoring certain circuits with lighter conductor, that is less prone to sagging, could remediate discrepancies on some of the IC Project circuits.~~

~~Based on SCE's analysis of corrective actions and alternatives in the April 2020 PEA, SCE has identified the revised IC Project as its proposed project. In particular, the revised IC Project includes the following components:~~

- **Subtransmission**
  - Remediate discrepancies along 262 miles of existing 115 kV subtransmission circuits by:
    - In Segments 1 and 2, removing all existing subtransmission towers and poles and replacing them with tubular steel poles ("TSPs"); lightweight steel ("LWS") poles; and steel multipole structures constructed from TSPs and LWS poles
    - In Segments 3N and 3S, removing some existing subtransmission towers and poles and replacing them with steel multipole structures constructed from TSPs; wood multipole structures; and steel and wood H-frames constructed from LWS and wood poles.
    - In Segments 3N and 3S, installing fault-return conductor on replacement LWS poles and/or LWS H-frames for grounding protection, where necessary.
    - Removing existing conductor and installing new Aluminum Conductor Composite Core ("ACCC") 'Dove' conductor on replacement and existing structures.
    - Installing overhead groundwire ("OHGW") in some locations for system protection.
  - ~~In Segment 4, remediate discrepancies along 96 miles of existing 115 kV subtransmission circuits by:~~
    - ~~Derating the existing subtransmission circuit.~~
    - ~~Replacing selected existing subtransmission structures with steel or wood H-frames constructed from TSPs, LWS poles, or wood poles.~~
- **Distribution**
  - Remove existing distribution conductor and appurtenances and install new distribution conductor and appurtenances on replacement structures.
- **Telecommunications/System Protection**

- Install approximately 174 miles of optical groundwire ("OPGW") and/or All-Dielectric Self-Supporting ("ADSS") fiber optic cable overhead on replacement structures and new structures.
- Install approximately 1,390 feet of fiber optic cable underground within existing substations, and approximately 2,190 feet underground outside of existing substations.
- Install system protection and telecommunications-associated equipment at existing substations.

- **Substations**
  - Disconnect existing conductor from existing positions at substations and connect new conductor to those existing positions.
  - Install new OHGW and make minor modifications to the existing racks to accommodate the new OHGW.
  - Install cabling between existing breakers to the existing mechanical electrical equipment room ("MEER")/communication room/telecommunications cabinet and install new relay and protection racks in the existing MEER/communication room/telecommunications cabinet.

The estimated capital cost of the ~~revised~~Revised IC Project is approximately $~~715~~977 million in ~~2020 nominal dollars, which corresponds to $628 in 2019~~2024 constant dollars.~~[3]~~[4] A link to the April 2020 PEA prepared for the ~~revised IC Project~~Amended Application, which discusses several alternatives to accomplish the ~~revised~~ IC Project's objectives (including a "No Project" alternative), is ~~attached to this~~provided in Section IV.F.5 of this Second Amended Application. The April 2020 PEA will be referenced in this Second Amended Application, where appropriate, as the source of information required in an Application for a PTC[~~4~~5] pursuant to G.O. 131-D, Section IX.B. A summary of the IC Project's purpose, need, and objectives is located in Chapter 2 of the April 2020 PEA. A complete description of the ~~Revised~~ IC Project is located in Chapter 3 of the April 2020 PEA. The

~~[3] This is a conceptual estimate, prepared in advance of final engineering and prior to CPUC approval. Pension and benefits, administrative and general expenses, and allowance for funds during construction are not included in these estimates.~~

[4] This is a conceptual estimate, prepared in advance of final engineering and prior to CPUC approval. Pension and benefits, administrative and general expenses, and allowance for funds during construction are not included in these estimates.

[~~4~~5] Other required information for a PTC application (*e.g.* Balance Sheet, Articles of Incorporation, *etc.*) is contained in this Application or its appendices.

April 2020 PEA project description includes discussions of Segment 4. For purposes of evaluating this Application, any references to Segment 4 in the PEA should be disregarded.

Construction of the IC Project is ~~scheduled~~expected to begin in 1st quarter ~~2023~~2027 and ~~scheduled to~~ be completed by ~~2nd~~3rd quarter ~~2026~~2030.[6] A detailed schedule for the IC Project is included in this Second Amended Application as APPENDIX C.

SCE requests that the Commission, upon completion of its review of this Second Amended Application, issue and certify an appropriate environmental document and issue a PTC authorizing SCE to construct the revised IC Project as set forth in this Second Amended Application and the ~~attached~~ April 2020 PEA within the timelines set forth in Section IV.H of this Second Amended Application.

V.~~IV.~~

STATUTORY AND PROCEDURAL REQUIREMENTS

A. Applicant

The applicant is Southern California Edison Company ("SCE"), an electric public utility company organized and existing under the laws of the State of California. SCE's principal place of business is 2244 Walnut Grove Avenue, Post Office Box 800, Rosemead, California 91770. Please address correspondence or communications in regard to this Application to:

~~Robert Pontelle~~Lauren Goschke
~~Senior~~ Attorney
Southern California Edison Company
Post Office Box 800
Rosemead, California 91770
Phone: (626) ~~302-6025~~302-4906
Email: ~~robert.pontelle~~Lauren.P.Goschke@sce.com

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[6] The proposed schedule assumes the approval process aligns with typical CPUC/CEQA review timelines.

With a copy to:

Case Administration
Southern California Edison Company
8631 Rush St.
Rosemead, California 91770
Phone: (626) 302-6906
Fax: (626) 302-5060
Email: case.admin@sce.com

B. Articles of Incorporation

~~A~~Pursuant to Rule 2.2 of the Commission's Rules of Practice and Procedure, a copy of SCE's Certificate of D copy of SCE's Certificate of Amended and Restated Articles of Incorporation, effective on ~~March 2~~August 28, ~~2006~~2023, and presently in effect, certified by the California Secretary of State, was filed with the Commission on ~~March 14~~December 15, ~~2006~~2023, in connection with Application No. ~~06-03-020~~A.23-12-011, and is incorporated herein by this reference ~~pursuant to Rule 2.2 of the Commission's Rules of Practice and Procedure~~.

~~A copy of SCE's Certificate of Determination of Preferences of the Series D Preference Stock filed with the California Secretary of State on March 7, 2011, and presently in effect, certified by the California Secretary of State, was filed with the Commission on April 1, 2011, in connection with Application No. 11-04-001, as is incorporated herein by this reference.~~

~~A copy of SCE's Certificate of Determination of Preferences of the Series E Preference Stock filed with the California Secretary of State on January 12, 2012, and a copy of SCE's Certificate of Increase of Authorized Shares of the Series E Preference Stock filed with the California Secretary of State on January 31, 2012, and presently in effect, certified by the California Secretary of State, were filed with the Commission on March 5, 2012, in connection with Application No. 12-03-004, and are incorporated herein by this reference.~~

~~A copy of SCE's Certificate of Determination of Preferences of the Series F Preference Stock filed with the California Secretary of State on May 5, 2012, and presently in effect, certified by the California Secretary of State, was filed with the Commission on June 29, 2012, in connection with Application 12-06-017, and is by reference made a part hereof.~~

~~A copy of SCE's Certificate of Determination of Preferences of the Series G Preference Stock filed with the Secretary of State on January 24, 2013, and presently in effect, certified by the California Secretary of State, was filed with the Commission on January 31, 2013, in connection with Application No. 13-01-016, and is by reference made a part hereof.~~

~~A copy of SCE's Certificate of Determination of Preferences of the Series H Preference Stock filed with the California Secretary of State on February 28, 2014, and presently in effect, certified by the California Secretary of State, was filed with the Commission on March 24, 2014, in connection with Application 14-03-013, and is by reference made a part hereof.~~

~~A copy of SCE's Certificate of Determination of Preferences of the Series J Preference Stock filed with the California Secretary of State on August 19, 2015, and presently in effect, certified by the California Secretary of State, was filed with the Commission on October 2, 2015, in connection with Application No. 15-10-001, and is by reference made a part hereof.~~

~~A copy of SCE's Certificate of Determination of Preferences of the Series K Preference Stock, filed with the California Secretary of State on March 2, 2016, and presently in effect, certified by the California Secretary of State, was filed with the Commission on April 1, 2016, in connection with Application No. 16-14-001, and is by reference made a part hereof.~~

A copy of SCE's Certificate of Determination of Preferences of the Series ~~L~~M Preference Stock filed with the California Secretary of State on ~~June 20~~November 17, ~~2017~~2023, and presently in effect, certified by the California Secretary of State, was filed with the Commission on ~~June 30~~December 15, ~~2017~~2023, in connection with Application No. ~~17-06-030~~A.23-12-011, and is incorporated herein by this reference.

A copy of SCE's Certificate of Determination of Preferences of the Series N Preference Stock filed with the California Secretary of State on May 8, 2024, and presently in effect, certified by the California Secretary of State, was filed with the Commission on May 15, 2024, in connection with Application No. A.24-05-007, and is incorporated herein by this reference.

~~Certain classes and series of SCE's capital stock are listed on a "national securities exchange" as defined in the Securities Exchange Act of 1934, and copies~~Copies of SCE's latest Annual Report to

Shareholders and ~~its~~Edison International's latest proxy statement was sent to its ~~shareholders~~stockholders and has been ~~filed with~~sent to the Commission with ~~a letter of transmittal~~an Energy Division Central Files Document Coversheet dated March ~~13~~18, ~~2020~~2024, pursuant to ~~Commission~~ General Order Nos. 65-A and 104-A of the Commission.

C. Balance Sheet and Statement of Income

APPENDIX A to this Second Amended Application contains copies of SCE's balance sheet and statement of income for the period ending ~~December 31, 2019~~September 30, 2024. The balance sheet reflects SCE's utility plant at original cost, less accumulated depreciation.

Since 1954, pursuant to Commission Decision No. 49665 dated February 16, 1954, in Application No. 33952, as modified by Decision No. 91799 in 1980, SCE has utilized straightline remaining life depreciation for computing depreciation expense for accounting and ratemaking purposes in connection with its operations.

Pursuant to Commission Decision No. 59926, dated April 12, 1960, SCE uses accelerated depreciation for income tax purposes and "flows through" reductions in income tax to customers within the Commission's jurisdiction for property placed in service prior to 1981. Consistent with Decision No. 93848 in OII-24, SCE uses the Accelerated Cost Recovery System ("ACRS") and Modified Accelerated Cost Recovery System ("MACRS") for federal income tax purposes and "normalizes" reductions in income tax to customers for property placed in service after 1980 in compliance with the Economic Recovery Tax Act of 1981, and also in compliance with the Tax Reform Act of 1986. Pursuant to Decision No. 88-01-061, dated January 28, 1988, SCE uses a gross of tax interest rate in calculating the AFUDC Rate, and income tax normalization to account for the increased income tax expense occasioned by the Tax Relief Act of 1986 provisions requiring capitalization of interest during construction for income tax purposes.

D. Description of Southern California Edison Company

SCE is a corporation organized and existing under the laws of the State of California, and is primarily engaged in the business of generating, purchasing, transmitting, distributing and selling electric energy for light, heat, and power in portions of central and southern California as a public utility subject to the jurisdiction of the California Public Utilities Commission. SCE's properties, which are located primarily within the State of California, consist mainly of hydroelectric and thermal electric generating plants, together with transmission and distribution lines and other property necessary in connection with its business.

E. Service Territory

SCE's service territory is located in 15 counties in central and southern California, consisting of Fresno, Imperial, Inyo, Kern, Kings, Los Angeles, Madera, Mono, Orange, Riverside, Santa Barbara, San Bernardino, Tulare, Tuolumne,[5]7 and Ventura Counties, and includes approximately 201 incorporated communities as well as outlying rural territories. A list of the counties and municipalities served by SCE is attached hereto as APPENDIX B. SCE also supplies electricity to certain customers for resale under tariffs filed with the Federal Energy Regulatory Commission.

F. Location of Items Required in Permit to Construct Pursuant to G.O. 131-D Section IX.B

Much of the information required to be included in a PTC application pursuant to G.O. 131-D, Section IX.B is found in the April 2020 PEA filed with ~~this~~the Amended Application.

Required PTC application information has been cross-referenced to the April 2020 PEA in the following text. The PTC application requirements of G.O. 131-D, Section IX.B are in ***bold italics***, and the April 2020 PEA references follow in bulleted plain text.

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[5]7 SCE provides electric service to a small number of customer accounts in Tuolumne County and is not subject to franchise requirements.

1. ***A description of the proposed power line or substation facilities, including the proposed power line route; proposed power line equipment, such as tower design and appearance, heights, conductor sizes, voltages, capacities, substations, switchyards, etc., and a proposed schedule for authorization, construction, and commencement of operation of the facilities.***

- Descriptions of the Revised IC Project are found throughout the April 2020 PEA, including in Chapter 1, Chapter 2, Chapter 3, and Chapter 4. Descriptions of potential individual alternative corrective actions and comprehensive Project Alternatives are discussed in Chapter 5 of the April 2020 PEA. Descriptions of the Revised IC Project alignment, referring to the locations where work generally would be done, are described in the April 2020 PEA in Section 3.1 ("Project Location") and all subsections contained therein, and illustrated in Figures/Figuresets 1.1-1 ("IC Project Location"), 1.1-2 ("Project Overview, Segment 1" and "Project Overview Segments 2, 3N, 3S, and 4") and 3.1-1 ("Project Segments")

- The physical characteristics of the equipment proposed to be included in the ~~revised~~Revised IC Project are described in the April 2020 PEA in Chapter 1, particularly in Section 1.1 ("Project Components") and Chapter 3, particularly in Sections 3.4 ("IC Project") and 3.5 ("Project Components"), and all subsections contained therein, and illustrated in Figures/Figuresets 3.5-1 ("Typical Structure Design"), 3.5-2 ("Independence Telecom Tap"), 3.5-3 ("Transmission Line Crossings"), 3.7-1 ("Material Yards"), 3.7-2 ("Telecommunications Underground Routes"), and 3.7-3 ("SCE Telecommunications Conduit Install Details"). The physical characteristics of alternatives to the ~~revised~~Revised IC Project are described in April 2020 PEA Chapter 5, particularly in Section 5.2 ("Description of Project Alternatives and Impact Analysis").

- The ~~revised~~ IC Project Schedule ~~is~~ discussed in April 2020 PEA Section 3.7.6 ("Construction Schedule") ~~and~~is outdated. An updated construction schedule is attached to this Second Amended Application as ~~Appendix~~APPENDIX C.

2. ***A map of the proposed power line routing or substation location showing populated areas, parks, recreational areas, scenic areas, and existing electrical transmission or power lines within 300 feet of the proposed route or substation.***

- Locations of the ~~revised~~Revised IC Project alignment, which generally includes the locations where work would be done, are illustrated in April 2020 PEA Figures/Figuresets 1.1-1 ("IC Project Location"), 1.1-2 ("Project Overview, Segment 1" and "Project Overview Segments 2, 3N, 3S, and 4"), 3.1-1 ("Project Segments"), 3.5-2 ("Independence Telecom Tap"), 3.5-3 ("Transmission Line Crossings"), 3.7-1 ("Material Yards"), 3.7-2 ("Telecommunications Underground Routes"), and 4.7-1 ("Site Location Map").

- Maps and aerial photographs showing populated areas, parks, recreational areas, scenic areas, and land uses in the vicinity of the ~~revised~~Revised IC Project alignment are provided in April 2020 PEA Figures/Figuresets 1.1-1 ("IC Project Location"), 1.1-2 ("Project Overview, Segment 1" and "Project Overview Segments 2, 3N, 3S, and 4"), 3.1-1 ("Project Segments"), 3.5-2 ("Independence Telecom Tap"), 3.5-3 ("Transmission Line Crossings"), 3.7-1 ("Material Yards"), 3.7-2 ("Telecommunications Underground Routes"), 4.1-1a ("Photograph Viewpoint Locations"), 4.1-1b ("Photograph Viewpoint Locations"), 4.1-1c ("BLM VRM Classifications"), 4.1-1d ("BLM VRM Classifications"), 4.2-1 ("Prime Farmland, Unique Farmland, Farmland Of Statewide Importance"), 4.4-1 ("Ivanpah-Control Habitat Designations"), 4.4-2 ("Ivanpah-Control Sensitive Plant Species"), 4.4-3 ("Ivanpah-Control CNDDB Special-Status Plant Occurrences"), 4.4-4 ("Ivanpah-

Control Sensitive Wildlife Species"), 4.4-5 ("Ivanpah-Control CNDDB Special-Status Wildlife Occurrences"), 4.4-6 ("Desert Tortoise Designated Critical Habitat"), 4.4-7 ("Yellow-Billed Cuckoo Proposed Critical Habitat"), 4.4-8 ("Mohave Ground Squirrel Probability of Occurrence"), 4.9-2 ("Airports and Airstrips"), 4.11-1 ("Land Use Designations"), 4.11-2 ("Zoning Designations"), 4.11-3 ("DRECP Land Designations"), 4.14-1 ("Cities, Reservations, And Census-Designated Places"), 4.15-1 ("Public Services Along The IC Project Alignment"), 4.16-1 ("Parks And Recreational Facilities"), 4.17-1 ("Truck Routes, Public Use Airports, And Railroads"), and 4.17-2 ("Potential Lane Closures And Road Crossings").

- Existing electrical system components along the Revised IC Project alignment and within 300 feet thereof are described in April 2020 PEA Section 3.1 ("Project Location") and all subsections contained therein, and Section 3.2 ("Existing System") and all subsections contained therein, and are mapped/illustrated in Figures/Figuresets 3.1-1 ("Project Segments"), 3.2-1 ("Existing System") and 3.5-3 ("Transmission Line Crossings"), 3.7-2 ("Telecommunications Underground Routes"), and 4.7-1 ("Site Location Map").

3. ***Reasons for adoption of the power line route or substation location selected, including comparison with alternative routes or locations, including the advantages and disadvantages of each.***

- Reasons for the construction of the ~~revised~~Revised IC Project, including the challenges and additional environmental impacts associated with alternative sites, can be found in April 2020 PEA Chapters 1, 2 and 5. As discussed in the April 2020 PEA, the IC Project involves remediation of clearance discrepancies on existing subtransmission infrastructure within an established IC Project alignment.

Substantial deviation from that alignment would not be a reasonable approach to accomplishing the IC Project's objectives.

4. ***A listing of the governmental agencies with which proposed power line route or substation location reviews have been undertaken, including a written agency response to applicant's written request for a brief position statement by that agency. (Such listing shall include The Native American Heritage Commission, which shall constitute notice on California Indian Reservation Tribal governments.) In the absence of a written agency position statement, the utility may submit a statement of its understanding of the position of such agencies.***

- April 2020 PEA Section 1.4 ("Agency Coordination") describes the outreach that SCE has conducted to date with lead agencies and other agencies, including the CPUC, Bureau of Land Management ("BLM"), the counties of Inyo, Kern and San Bernardino, the City of Barstow, China Lake Naval Air Warfare Station, Edwards Air Force Base, Marine Corps Logistics Base Barstow, California Department of Transportation, California State Lands Commission, and Los Angeles Department of Water and Power. None of these agencies has expressed any objections with respect to the ~~revised~~ IC Project. It is SCE's understanding that the BLM reviewed the April 2020 PEA and that the agency is evaluating the IC Project, along with alternative routes.

- April 2020 PEA Section 4.5.3.1.2 describes SCE's efforts with respect to Native American Coordination. The Native American Heritage Commission ("NAHC") maintains two databases to assist cultural resources specialists in identifying cultural resources of concern to California Native Americans. On December 7, 2018, SCE's consultant, SWCA Environmental Consultants, contacted the NAHC to obtain information about known cultural and tribal cultural resources and request a list of

Native American tribal representatives who may have a cultural affiliation with the proposed project area. The NAHC responded on December 28, 2018, stating that the Sacred Lands File ("SLF") database includes previously identified sacred sites in the vicinity of the proposed project. In consideration of these culturally significant sacred sites, the NAHC suggested contacting two Native American tribes for more information. The NAHC also forwarded a list of 12 Native American groups or individuals that are culturally affiliated with the project area. The results of the NAHC SLF search ~~will be~~have been provided to the CPUC and BLM for use in their respective Native American consultation efforts.

5. ***A PEA or equivalent information on the environmental impact of the project in accordance with the provisions of CEQA and this Commission's Rules of Practice and Procedure Rule 2.4 [formerly 17.1 and 17.3]. If a PEA is filed, it may include the data described in Items a. through d. above.***

~~• The April 2020 PEA is attached to this Amended Application.~~

- SCE submitted a PEA with the Amended Application in April 2020. A copy of the April 2020 PEA is available at: https://ia.cpuc.ca.gov/environment/info/aspen/ivanpah-control/toc-amended_pea.htm.

G. Compliance with G.O. 131-D, Section X

G.O. 131-D, Section X, requires applications for a PTC to describe measures taken to reduce potential exposure to electric and magnetic fields ("EMF") generated by the proposed facilities. A complete description of EMF-related issues is contained in SCE's EMF Field Management Plan for the ~~revised~~ IC Project (the "April 2020 FMP"), ~~which is~~ attached as APPENDIX F to ~~this~~the Amended Application.

H. Compliance with Rule 2.1(c)

In compliance with Rule 2.1(c) of the Commission's Rules of Practice and Procedure (California Code of Regulations, Title 20), SCE is required to state in this Application "[t]he proposed category for the proceeding, the need for hearing, the issues to be considered including relevant safety considerations, and a proposed schedule." SCE proposes to categorize this Second Amended Application as a rate-setting proceeding. SCE anticipates that a hearing will not be necessary. This proceeding involves the Commission's: (1) environmental review of the revised IC Project in compliance with G.O. 131-D and the California Environmental Quality Act ("CEQA") (Pub. Resources Code § 21000 *et seq*.); and (2) issuance of a PTC authorizing SCE to construct the revised IC Project.

SCE workers and contractors are required to implement and enforce the SCE Accident Prevention Manual, which is a companywide manual containing safety rules and policies. These rules and policies cover work performed in every organizational unit, from office and workplace safety to construction sites, and for operating and maintaining substations and steam generation stations.

SCE suggests the following proposed schedule for this Second Amended Application:

Date	Event
~~April 2020~~ October 2024	Second Amended Application Filed
~~September 2020~~	~~Initial Study Issued~~
~~November 2020~~ December 2024	Second Amended Application Deemed Complete
~~April 2021~~May 2025	Draft CEQA Document Issued
~~August 2021~~ October 2025	Final CEQA Document Issued
~~December 2021~~	Proposed Decision Issued

February 2026	
~~February 2022~~ June 2026	Final Decision

I. Statutory Authority

This Application is made pursuant to the provisions of CEQA, G.O. 131-D, the Commission's Rules of Practice and Procedure, and prior orders and resolutions of the Commission.

J. Public Notice

Pursuant to guidance from the CPUC Energy Division, public notice of this Second Amended Application under G.O. 131-D, Section XI.A~~, notice of this Application shall be given: (1) to certain public agencies and legislative bodies; (2) to owners of property located on or within 300 feet of the IC Project alignment; (3) by advertisement in a newspaper or newspapers of general circulation; and (4) by posting a notice on-site and off-site at the project location. SCE has given, or will give, proper notice within the time limits prescribed in GO 131- D.~~ is not required, as the original notice was inclusive of all work that would occur under the new (reduced) project scope. A copy of the Notice of Amended Application for a Permit to Construct and list of newspapers which ~~will publish~~ published the original notice are contained in APPENDIX D to the Amended Application. A copy of the Certificate of Service of Notice of Amended Application for a Permit to Construct and a service list are contained in APPENDIX E to the Amended Application.

K. Supporting Appendices ~~and Attachments~~

Appendices A through ~~G~~D listed below, and the April 2020 PEA ~~listed below,~~ are made a part of this Second Amended Application:

APPENDIX A	Balance Sheet and Statement of Income as of ~~December 31~~June 30, ~~2019~~2024.

APPENDIX B	List of Counties and Municipalities Served by SCE
APPENDIX C	Ivanpah-Control Project Schedule
~~APPENDIX D~~	~~Notice of Amended Application for a Permit to Construct~~
~~APPENDIX E~~	~~Certificate of Service of Notice of Amended Application for a Permit to Construct~~
~~APPENDIX F~~	~~April 2020 Field Management Plan~~
APPENDIX ~~G~~D	Amendments to SCE's *Amended Application Of Southern California Edison Company (U 338-E) For A Permit To Construct Electrical Facilities With Voltages Between 50kv And 200 kV: Ivanpah-Control Project*, filed ~~July 17~~April 13, ~~2019~~2020
~~ATTACHMENT~~	~~Southern California Edison's Ivanpah-Control Project April 2020 PEA~~

L. Compliance with Rule 2.5

Rule 2.5 of the Commission's Rules of Practice and Procedure provides that an applicant include a deposit to be applied to the costs the Commission incurs to prepare a negative declaration or an environmental impact report when the Commission is acting as the lead agency pursuant to CEQA. In accordance with Rule 2.5, SCE has already submitted a deposit to be applied to the costs the Commission incurs to prepare a negative declaration or an environmental impact report for the revised IC Project.

M. Request for Ex Parte Relief

SCE requests that the relief requested in this Second Amended Application be provided *ex parte* as provided for in G.O. 131-D, Section IX.B.6.

N. Request for Timely Relief

SCE requests the Commission issue a decision within the time limits prescribed by Government Code Section 65920 *et seq*. (the Permit Streamlining Act) as provided for in G.O. 131-D, Section IX.B.6.

VI.~~V.~~

CONCLUSION

SCE respectfully requests the Commission issue a PTC authorizing SCE to construct the revised IC Project described in this Second Amended Application and April 2020 PEA. SCE further requests that the relief be provided *ex parte* and within the time limits prescribed by the Permit Streamlining Act.

Respectfully submitted,

SOUTHERN CALIFORNIA EDISON COMPANY

/s/ ~~Erik Takayesu~~ Heather Rivard
By: ~~Erik Takayesu~~Heather Rivard
Vice President Transmission, Substations and Operations

/s/~~-~~ ~~Robert Pontelle~~ Lauren P. Goschke
By: ~~Robert Pontelle~~Lauren P. Goschke

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SOUTHERN CALIFORNIA EDISON COMPANY

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~~**April 13, 2020**~~ October 31, 2024