

# Contents

<b>Executive Summary</b> .....	ES-1
ES.1 Introduction/Background.....	ES-1
ES.1.1 Proposed Project and Historical Background.....	ES-1
ES.1.2 Proposed Project Purpose and Need.....	ES-6
ES.2 Summary of Public Involvement Activities.....	ES-7
ES.2.1 Scoping Process.....	ES-7
ES.2.2 Areas of Controversy / Public Scoping Issues.....	ES-9
ES.3 Alternatives.....	ES-10
ES.3.1 CEQA and NEPA Requirements for Alternatives.....	ES-10
ES.3.2 Alternatives Fully Evaluated in the EIR.....	ES-12
ES.3.3 Alternatives Eliminated From Further Consideration.....	ES-16
ES.3.4 No Project / No Action Alternative.....	ES-29
ES.4 Summary of Impacts.....	ES-30
ES.4.1 Introduction.....	ES-30
ES.4.2 Agriculture.....	ES-35
ES.4.3 Air Quality.....	ES-36
ES.4.4 Biological Resources – Vegetation.....	ES-37
ES.4.5 Biological Resources – Wildlife.....	ES-39
ES.4.6 Climate Change.....	ES-41
ES.4.7 Cultural Resources.....	ES-43
ES.4.8 Socioeconomics and Environmental Justice.....	ES-44
ES.4.9 Geology and Soils.....	ES-46
ES.4.10 Hazards and Hazardous Materials.....	ES-48
ES.4.11 Land Use and BLM Realty.....	ES-49
ES.4.12 Mineral Resources.....	ES-51
ES.4.13 Noise.....	ES-52
ES.4.14 Paleontological Resources.....	ES-54
ES.4.15 Recreation.....	ES-55
ES.4.16 Transportation and Traffic.....	ES-57
ES.4.17 Utilities and Public Services.....	ES-59
ES.4.18 Visual Resources.....	ES-60
ES.4.19 Water Resources and Hydrology.....	ES-62
ES.4.20 Wildland Fire.....	ES-64
ES.4.21 Electrical Interference and Safety.....	ES-66
ES.5 Cumulative Scenario and Impacts.....	ES-67
ES.5.1 CEQA and NEPA Requirements for Cumulative Impact Analyses.....	ES-67
ES.5.2 Cumulative Projects.....	ES-68
ES.5.3 Cumulative Impacts of the Proposed Project and Alternatives.....	ES-68
ES.6 Summary Comparison of the Proposed Project and Alternatives.....	ES-69
ES.6.1 Methodology for Alternatives Comparison.....	ES-70
ES.6.2 Environmentally Superior/Preferred Alternative.....	ES-70
ES.6.3 Comparison of the Environmentally Superior Alternative with the No Project Alternative.....	ES-72
ES.7 Impact Summary Tables for CEQA Impact Significance.....	ES-75

<b>A.</b>	<b>Introduction</b>	A-1
A.1	History and Overview of Proposed Project	A-2
A.1.1	Overview	A-2
A.1.2	Project History: DPV2 and 2005 West of Devers Proposal	A-2
A.1.3	Morongo Tribal Land History and Background	A-2
A.2	Purpose and Need for the Proposed Project	A-4
A.2.1	Purposes of the Proposed Project	A-4
A.2.2	BLM’s Purpose and Need	A-8
A.2.3	CPUC and BLM Project Objectives	A-11
A.3	Definition of Connected Actions and Related Projects	A-13
A.4	Agency Use of This Document	A-14
A.4.1	CPUC Process	A-14
A.4.2	BLM Process	A-14
A.4.3	Other Agencies	A-16
A.4.4	Permits Required for the Proposed Project	A-16
A.5	Reader’s Guide to This EIR/EIS	A-18
A.5.1	Incorporation by Reference	A-18
A.5.2	EIR/EIS Organization	A-18
A.6	References	A-20
<b>B.</b>	<b>Description of the Proposed Project</b>	B-1
B.1	Introduction and Overview	B-1
B.1.1	Historical Background in Project Area	B-1
B.2	Description of Proposed Project Components	B-3
B.2.1	220 kV Transmission Line Improvements	B-3
B.2.2	Substation Improvements	B-8
B.2.3	66 kV Subtransmission Line Improvements	B-11
B.2.4	12 kV Distribution Line Improvements	B-14
B.2.5	Telecommunications System Upgrades	B-15
B.2.6	Right-of-Way Requirements	B-19
B.3	Construction of Proposed Project	B-22
B.3.1	General Construction	B-22
B.3.2	Modifications to Existing Substations	B-27
B.3.3	Transmission and Subtransmission Line Construction Process	B-28
B.3.4	Installation of Underground Subtransmission Line	B-43
B.3.5	Construction of Distribution Systems	B-45
B.3.6	Energizing Transmission and Subtransmission Lines	B-46
B.3.7	Telecommunications	B-46
B.3.8	Site Restoration	B-50
B.3.9	Construction Workforce and Equipment	B-50
B.3.10	Construction Schedule and Sequence	B-50
B.4	Operations and Maintenance	B-53
B.5	Electric and Magnetic Fields Management	B-56
B.5.1	Electric and Magnetic Fields	B-56
B.5.2	EMF in the Proposed Project Area	B-57
B.5.3	Field Management Plan for the Proposed Project	B-58
B.6	Applicant Proposed Measures	B-59

B.7	Connected Actions.....	B-66
B.7.1	Definition of Connected Action Projects.....	B-66
B.7.2	Descriptions of Connected Action Projects .....	B-67
B.8	References.....	B-71
<b>C.</b>	<b>Alternatives.....</b>	<b>C-1</b>
C.1	Alternatives Development and Screening Process.....	C-1
C.2	Alternatives Screening Methodology.....	C-1
C.2.1	CEQA and NEPA Requirements for Alternatives.....	C-2
C.2.2	Other Considerations for Alternatives.....	C-6
C.3	Summary of Screening Results.....	C-7
C.3.1	Alternatives Fully Analyzed in the EIR/EIS.....	C-7
C.3.2	Alternatives Eliminated from Full Consideration in the EIR/EIS .....	C-8
C.4	Alternatives Evaluated in this EIR/EIS .....	C-19
C.4.1	Tower Relocation Alternative.....	C-19
C.4.2	Iowa Street 66 kV Underground Alternative .....	C-19
C.4.3	Phased Build Alternative.....	C-25
C.5	Alternatives Eliminated from Full EIR/EIS Evaluation.....	C-29
C.5.1	500 kV Towers Alternative.....	C-29
C.5.2	Segment 4 Underground Alternatives in Calimesa, Beaumont, and Banning .....	C-30
C.5.3	Segment 5 Morongo Central Route Alternative (original PEA Proposed Route).....	C-31
C.5.4	Segment 5 Morongo Existing 220 kV Route Alternative (Existing ROW).....	C-31
C.5.5	East Banning/Morongo Alternative.....	C-32
C.5.6	Devers-Beaumont 500 kV Alternative (SCE System Alternative 1).....	C-32
C.5.7	Red Bluff–Valley-Serrano 500 kV Alternative (SCE System Alternative 2) .....	C-33
C.5.8	Reduced Build Alternative Option 1.....	C-34
C.5.9	Reduced Build Alternative Option 2a.....	C-35
C.5.10	Reduced Build Alternative Option 2b.....	C-35
C.5.11	High-Performance Conductor Alternative.....	C-36
C.6	No Project / No Action Alternative.....	C-36
C.6.1	Analysis Requirements.....	C-37
C.6.2	Background and Current Plans .....	C-37
C.6.3	No Project/No Action Alternative Scenario.....	C-39
C.7	References.....	C-51
<b>D.1</b>	<b>Introduction to Environmental Analysis.....</b>	<b>D.1-1</b>
D.1.1	Organization of Each Section .....	D.1-1
D.1.2	Alternatives.....	D.1-1
D.1.3	CEQA and NEPA Requirements.....	D.1-2
D.1.3.1	California Environmental Quality Act.....	D.1-2
D.1.3.2	National Environmental Policy Act.....	D.1-3
D.1.4	Impact Analysis and Mitigation Measures .....	D.1-3
D.1.4.1	Applicant Proposed Measures .....	D.1-3
D.1.4.2	Mitigation Measures.....	D.1-3
D.1.5	Analysis of Connected Actions.....	D.1-4
D.1.6	Cumulative Impact Assessment.....	D.1-4
D.1.7	Other CEQA and NEPA Requirements.....	D.1-4

<b>D.2</b>	<b>Agriculture</b>	D.2-1
D.2.1	Environmental Setting / Affected Environment	D.2-1
D.2.1.1	Regional Setting and Approach to Data Collection	D.2-1
D.2.1.2	Environmental Setting by Jurisdiction	D.2-2
D.2.1.3	Environmental Setting for Connected Actions	D.2-6
D.2.2	Applicable Regulations, Plans, and Standards	D.2-6
D.2.2.1	Federal	D.2-6
D.2.2.2	State	D.2-7
D.2.2.3	Local	D.2-7
D.2.3	Environmental Impacts of the Proposed Project	D.2-7
D.2.3.1	Approach to Impact Assessment	D.2-7
D.2.3.2	CEQA Significance Criteria	D.2-8
D.2.3.3	Impacts and Mitigation Measures	D.2-9
D.2.3.4	Impacts of Connected Actions	D.2-11
D.2.3.5	CEQA Significance Determination for Proposed Project and Connected Actions	D.2-12
D.2.4	Environmental Impacts of Project Alternatives	D.2-13
D.2.4.1	Tower Relocation Alternative	D.2-13
D.2.4.2	Iowa Street 66 kV Underground Alternative	D.2-14
D.2.4.3	Phased Build Alternative	D.2-15
D.2.5	Environmental Impacts of No Project / No Action Alternative	D.2-16
D.2.5.1	No Project Alternative Option 1	D.2-16
D.2.5.2	No Project Alternative Option 2	D.2-17
D.2.6	Mitigation Monitoring, Compliance, and Reporting	D.2-17
D.2.7	References	D.2-18
<b>D.3</b>	<b>Air Quality</b>	D.3-1
D.3.1	Environmental Setting / Affected Environment	D.3-1
D.3.1.1	Regional Setting and Approach to Data Collection	D.3-1
D.3.1.2	Environmental Setting by Segment	D.3-1
D.3.1.3	Environmental Setting for Connected Actions	D.3-4
D.3.2	Applicable Regulations, Plans, and Standards	D.3-5
D.3.2.1	Federal	D.3-5
D.3.2.2	State	D.3-6
D.3.2.3	Local	D.3-7
D.3.3	Environmental Impacts of the Proposed	D.3-8
D.3.3.1	Approach to Impact Assessment	D.3-8
D.3.3.2	CEQA Significance Criteria	D.3-9
D.3.3.3	Impacts and Mitigation Measures	D.3-11
D.3.3.4	Impacts of Connected Actions	D.3-16
D.3.3.5	CEQA Significance Determination for Proposed Project and Connected Actions	D.3-17
D.3.4	Environmental Impacts of Project Alternatives	D.3-19
D.3.4.1	Tower Relocation Alternative	D.3-19
D.3.4.2	Iowa Street 66 kV Underground Alternative	D.3-22
D.3.4.3	Phased Build Alternative	D.3-24
D.3.5	Environmental Impacts of No Project / No Action Alternative	D.3-26
D.3.5.1	No Project Alternative Option 1	D.3-26
D.3.5.2	No Project Alternative Option 2	D.3-26

D.3.6 Mitigation Monitoring, Compliance, and Reporting ..... D.3-27

D.3.7 References ..... D.3-28

**D.4 Biological Resources – Vegetation ..... D.4-1**

D.4.1 Environmental Setting / Affected Environment ..... D.4-1

D.4.1.1 Regional Setting and Approach to Data Collection ..... D.4-1

D.4.1.2 Environmental Setting by Segment ..... D.4-10

D.4.1.3 Environmental Setting for Connected Actions ..... D.4-19

D.4.2 Applicable Regulations, Plans, and Standards ..... D.4-21

D.4.2.1 Federal ..... D.4-21

D.4.2.2 State ..... D.4-22

D.4.2.3 Local ..... D.4-22

D.4.3 Environmental Impacts of the Proposed Project ..... D.4-23

D.4.3.1 Approach to Impact Assessment ..... D.4-23

D.4.3.2 CEQA Significance Criteria ..... D.4-26

D.4.3.3 Impacts and Mitigation Measures ..... D.4-27

D.4.3.4 Impacts of Connected Actions ..... D.4-58

D.4.3.5 CEQA Significance Determination for Proposed Project and Connected  
Actions ..... D.4-63

D.4.4 Environmental Impacts of Project Alternatives ..... D.4-66

D.4.4.1 Tower Relocation Alternative ..... D.4-66

D.4.4.2 Iowa Street 66 kV Underground Alternative ..... D.4-70

D.4.4.3 Phased Build Alternative ..... D.4-73

D.4.5 Environmental Impacts of No Project / No Action Alternative ..... D.4-77

D.4.5.1 No Project Alternative Option 1 ..... D.4-77

D.4.5.2 No Project Alternative Option 2 ..... D.4-78

D.4.6 Mitigation Monitoring, Compliance, and Reporting ..... D.4-79

D.4.7 References ..... D.4-82

**D.5 Biological Resources – Wildlife ..... D.5-1**

D.5.1 Environmental Setting / Affected Environment ..... D.5-1

D.5.1.1 Regional Setting and Approach to Data Collection ..... D.5-1

D.5.1.2 Environmental Setting by Segment ..... D.5-6

D.5.1.3 Environmental Setting for Connected Actions ..... D.5-15

D.5.2 Applicable Regulations, Plans, and Standards ..... D.5-17

D.5.2.1 Federal ..... D.5-17

D.5.2.2 State ..... D.5-17

D.5.3 Environmental Impacts of the Proposed ..... D.5-18

D.5.3.1 Approach to Impact Assessment ..... D.5-18

D.5.3.2 CEQA Significance Criteria ..... D.5-22

D.5.3.3 Impacts and Mitigation Measures ..... D.5-22

D.5.3.4 Impacts of Connected Actions ..... D.5-63

D.5.3.5 CEQA Significance Determination for Proposed Project and Connected  
Actions ..... D.5-68

D.5.4 Environmental Impacts of Project Alternatives ..... D.5-70

D.5.4.1 Tower Relocation Alternative ..... D.5-70

D.5.4.2 Iowa Street 66 kV Underground Alternative ..... D.5-74

D.5.4.3 Phased Build Alternative ..... D.5-76

D.5.5	Environmental Impacts of No Project / No Action Alternative .....	D.5-79
D.5.5.1	No Project Alternative Option 1 .....	D.5-79
D.5.5.2	No Project Alternative Option 2 .....	D.5-81
D.5.6	Mitigation Monitoring, Compliance, and Reporting .....	D.5-81
D.5.7	References .....	D.5-85
<b>D.6</b>	<b>Climate Change</b> .....	<b>D.6-1</b>
D.6.1	Environmental Setting / Affected Environment .....	D.6-1
D.6.1.1	Regional Setting and Approach to Data Collection .....	D.6-1
D.6.1.2	Environmental Setting .....	D.6-2
D.6.1.3	Environmental Setting for Connected Actions .....	D.6-4
D.6.2	Applicable Regulations, Plans, and Standards .....	D.6-4
D.6.2.1	Federal .....	D.6-4
D.6.2.2	State .....	D.6-5
D.6.2.3	Local .....	D.6-7
D.6.3	Environmental Impacts of the Proposed Project .....	D.6-8
D.6.3.1	Approach to Impact Assessment .....	D.6-8
D.6.3.2	CEQA Significance Criteria .....	D.6-8
D.6.3.3	Impacts and Mitigation Measures .....	D.6-9
D.6.3.4	Impacts of Connected Actions .....	D.6-11
D.6.3.5	CEQA Significance Determination for Proposed Project and Connected Actions .....	D.6-13
D.6.4	Environmental Impacts of Project Alternatives .....	D.6-13
D.6.4.1	Tower Relocation Alternative .....	D.6-13
D.6.4.2	Iowa Street 66 kV Underground Alternative .....	D.6-15
D.6.4.3	Phased Build Alternative .....	D.6-15
D.6.5	Environmental Impacts of No Project / No Action Alternative .....	D.6-17
D.6.5.1	No Project Alternative Option 1 .....	D.6-17
D.6.5.2	No Project Alternative Option 2 .....	D.6-17
D.6.6	Mitigation Monitoring, Compliance, and Reporting .....	D.6-17
D.6.7	References .....	D.6-18
<b>D.7</b>	<b>Cultural Resources</b> .....	<b>D.7-1</b>
D.7.1	Environmental Setting / Affected Environment .....	D.7-1
D.7.1.1	Regional Setting and Approach to Data Collection .....	D.7-1
D.7.1.2	Environmental Setting .....	D.7-3
D.7.1.3	Environmental Setting for Connected Actions .....	D.7-19
D.7.2	Applicable Regulations, Plans, and Standards .....	D.7-21
D.7.2.1	Federal .....	D.7-21
D.7.2.2	State .....	D.7-23
D.7.2.3	Local .....	D.7-24
D.7.3	Environmental Impacts of the Proposed Project .....	D.7-30
D.7.3.1	Approach to Impact Assessment .....	D.7-30
D.7.3.2	CEQA and Section 106 Significance Criteria .....	D.7-30
D.7.3.3	Impacts and Mitigation Measures .....	D.7-32
D.7.3.4	Impacts of Connected Actions .....	D.7-36
D.7.3.5	CEQA Significance Determination for Proposed Project and Connected Actions .....	D.7-36
D.7.4	Environmental Impacts of Project Alternatives .....	D.7-38
D.7.4.1	Tower Relocation Alternative .....	D.7-38

D.7.4.2	Iowa Street 66 kV Underground Alternative .....	D.7-39
D.7.4.3	Phased Build Alternative .....	D.7-40
D.7.5	Environmental Impacts of No Project / No Action Alternative .....	D.7-42
D.7.5.1	No Project Alternative Option 1 .....	D.7-42
D.7.5.2	No Project Alternative Option 2 .....	D.7-42
D.7.6	Mitigation Monitoring, Compliance, and Reporting .....	D.7-43
D.7.7	References .....	D.7-45
<b>D.8</b>	<b>Socioeconomics and Environmental Justice</b> .....	<b>D.8-1</b>
D.8.1	Environmental Setting / Affected Environment .....	D.8-1
D.8.1.1	Regional Setting and Approach to Data Collection .....	D.8-1
D.8.1.2	Environmental Setting by Segment .....	D.8-2
D.8.1.3	Environmental Setting for Connected Actions .....	D.8-11
D.8.2	Applicable Regulations, Plans, and Standards .....	D.8-12
D.8.2.1	Federal .....	D.8-12
D.8.2.2	State .....	D.8-13
D.8.2.3	Local .....	D.8-14
D.8.3	Environmental Impacts of the Proposed Project .....	D.8-15
D.8.3.1	Approach to Impact Assessment .....	D.8-15
D.8.3.2	CEQA Significance Criteria .....	D.8-17
D.8.3.3	Impacts and Mitigation Measures .....	D.8-18
D.8.3.4	Impacts of Connected Actions .....	D.8-30
D.8.3.5	CEQA Significance Determination for Proposed Project and Connected Actions .....	D.8-32
D.8.4	Environmental Impacts of Project Alternatives .....	D.8-33
D.8.4.1	Tower Relocation Alternative .....	D.8-33
D.8.4.2	Iowa Street 66 kV Underground Alternative .....	D.8-35
D.8.4.3	Phased Build Alternative .....	D.8-37
D.8.5	Environmental Impacts of No Project / No Action Alternative .....	D.8-39
D.8.5.1	No Project Alternative Option 1 .....	D.8-39
D.8.5.2	No Project Alternative Option 2 .....	D.8-39
D.8.6	Mitigation Monitoring, Compliance, and Reporting .....	D.8-39
D.8.7	References .....	D.8-39
<b>D.9</b>	<b>Geology and Soils</b> .....	<b>D.9-1</b>
D.9.1	Environmental Setting / Affected Environment .....	D.9-1
D.9.1.1	Regional Setting and Approach to Data Collection .....	D.9-1
D.9.1.2	Faults and Seismicity .....	D.9-5
D.9.1.3	Environmental Setting by Segment .....	D.9-9
D.9.1.4	Environmental Setting for Connected Actions .....	D.9-16
D.9.2	Applicable Regulations, Plans, and Standards .....	D.9-17
D.9.2.1	Federal .....	D.9-17
D.9.2.2	State .....	D.9-18
D.9.2.3	Local .....	D.9-19
D.9.3	Environmental Impacts of the Proposed Project .....	D.9-19
D.9.3.1	Approach to Impact Assessment .....	D.9-19
D.9.3.2	CEQA Significance Criteria .....	D.9-20
D.9.3.3	Impacts and Mitigation Measures .....	D.9-20
D.9.3.4	Impacts of Connected Actions .....	D.9-24

D.9.3.5	CEQA Significance Determination for Proposed Project and Connected Actions .....	D.9-27
D.9.4	Environmental Impacts of Project Alternatives .....	D.9-29
D.9.4.1	Tower Relocation Alternative .....	D.9-29
D.9.4.2	Iowa Street 66 kV Underground Alternative .....	D.9-32
D.9.4.3	Phased Build Alternative .....	D.9-33
D.9.5	Environmental Impacts of No Project / No Action Alternative .....	D.9-37
D.9.5.1	No Project Alternative Option 1 .....	D.9-37
D.9.5.2	No Project Alternative Option 2 .....	D.9-38
D.9.6	Mitigation Monitoring, Compliance, and Reporting .....	D.9-38
D.9.7	References .....	D.9-40
<b>D.10</b>	<b>Hazards and Hazardous Materials .....</b>	<b>D.10-1</b>
D.10.1	Environmental Setting / Affected Environment .....	D.10-1
D.10.1.1	Regional Setting and Approach to Data Collection .....	D.10-1
D.10.1.2	Environmental Setting by Segment .....	D.10-1
D.10.1.3	Environmental Setting for Connected Actions .....	D.10-3
D.10.2	Applicable Regulations, Plans, and Standards .....	D.10-4
D.10.2.1	Federal .....	D.10-4
D.10.2.2	State .....	D.10-6
D.10.2.3	Local .....	D.10-9
D.10.3	Environmental Impacts of the Proposed Project .....	D.10-9
D.10.3.1	Approach to Impact Assessment .....	D.10-9
D.10.3.2	CEQA Significance Criteria .....	D.10-10
D.10.3.3	Impacts and Mitigation Measures .....	D.10-11
D.10.3.4	Impacts of Connected Actions .....	D.10-14
D.10.3.5	CEQA Significance Determination for Proposed Project and Connected Actions .....	D.10-16
D.10.4	Environmental Impacts of Project Alternatives .....	D.10-17
D.10.4.1	Tower Relocation Alternative .....	D.10-17
D.10.4.2	Iowa Street 66 kV Underground Alternative .....	D.10-19
D.10.4.3	Phased Build Alternative .....	D.10-20
D.10.5	Environmental Impacts of No Project / No Action Alternative .....	D.10-22
D.10.5.1	No Project Alternative Option 1 .....	D.10-22
D.10.5.2	No Project Alternative Option 2 .....	D.10-22
D.10.6	Mitigation Monitoring, Compliance, and Reporting .....	D.10-23
D.10.7	References .....	D.10-25
<b>D.11</b>	<b>Land Use and BLM Realty .....</b>	<b>D.11-1</b>
D.11.1	Environmental Setting / Affected Environment .....	D.11-1
D.11.1.1	Regional Setting and Approach to Data Collection .....	D.11-1
D.11.1.2	Environmental Setting by Segment .....	D.11-2
D.11.1.3	Environmental Setting for Connected Actions .....	D.11-5
D.11.2	Applicable Regulations, Plans, and Standards .....	D.11-6
D.11.2.1	Federal .....	D.11-6
D.11.2.2	State .....	D.11-8
D.11.2.3	Local .....	D.11-8
D.11.3	Environmental Impacts of the Proposed Project .....	D.11-9
D.11.3.1	Approach to Impact Assessment .....	D.11-9
D.11.3.2	CEQA Significance Criteria .....	D.11-9

D.11.3.3	Impacts and Mitigation Measures .....	D.11-10
D.11.3.4	Environmental Impacts for Connected Actions.....	D.11-12
D.11.3.5	CEQA Significance Determination for Proposed Project and Connected Actions .....	D.11-13
D.11.4	Environmental Impacts of Project Alternatives .....	D.11-13
D.11.4.1	Tower Relocation Alternative .....	D.11-13
D.11.4.2	Iowa Street 66 kV Underground Alternative .....	D.11-15
D.11.4.3	Phased Build Alternative .....	D.11-15
D.11.5	Environmental Impacts of No Project / No Action Alternative .....	D.11-16
D.11.5.1	No Project Alternative Option 1 .....	D.11-16
D.11.5.2	No Project Alternative Option 2 .....	D.11-17
D.11.6	Mitigation Monitoring, Compliance, and Reporting .....	D.11-18
D.11.7	References .....	D.11-19
<b>D.12</b>	<b>Mineral Resources .....</b>	<b>D.12-1</b>
D.12.1	Environmental Setting / Affected Environment .....	D.12-1
D.12.1.1	Regional Setting and Approach to Data Collection .....	D.12-1
D.12.1.2	Environmental Setting by Segment.....	D.12-2
D.12.1.3	Environmental Setting for Connected Actions.....	D.12-3
D.12.2	Applicable Regulations, Plans, and Standards.....	D.12-3
D.12.2.1	Federal.....	D.12-3
D.12.2.2	State.....	D.12-4
D.12.2.3	Local.....	D.12-4
D.12.3	Environmental Impacts of the Proposed Project.....	D.12-6
D.12.3.1	Approach to Impact Assessment.....	D.12-6
D.12.3.2	CEQA Significance Criteria .....	D.12-6
D.12.3.3	Impacts and Mitigation Measures .....	D.12-7
D.12.3.4	Impacts of Connected Actions .....	D.12-7
D.12.3.5	CEQA Significance Determination for Proposed Project and Connected Actions .....	D.12-8
D.12.4	Environmental Impacts of Project Alternatives .....	D.12-8
D.12.4.1	Tower Relocation Alternative .....	D.12-8
D.12.4.2	Iowa Street 66 kV Underground Alternative .....	D.12-9
D.12.4.3	Phased Build Alternative.....	D.12-9
D.12.5	Environmental Impacts of No Project / No Action Alternative .....	D.12-10
D.12.5.1	No Project Alternative Option 1 .....	D.12-10
D.12.5.2	No Project Alternative Option 2 .....	D.12-11
D.12.6	Mitigation Monitoring, Compliance, and Reporting .....	D.12-11
D.12.7	References .....	D.12-12
<b>D.13</b>	<b>Noise.....</b>	<b>D.13-1</b>
D.13.1	Environmental Setting / Affected Environment .....	D.13-1
D.13.1.1	Regional Setting and Approach to Data Collection .....	D.13-1
D.13.1.2	Environmental Setting by Segment.....	D.13-1
D.13.1.3	Environmental Setting for Connected Actions.....	D.13-5
D.13.2	Applicable Regulations, Plans, and Standards.....	D.13-6
D.13.2.1	Federal.....	D.13-6
D.13.2.2	State.....	D.13-7
D.13.2.3	Local.....	D.13-7

D.13.3	Environmental Impacts of the Proposed Project	D.13-13
D.13.3.1	Approach to Impact Assessment	D.13-13
D.13.3.2	CEQA Significance Criteria	D.13-14
D.13.3.3	Impacts and Mitigation Measures	D.13-14
D.13.3.4	Impacts of Connected Actions	D.13-21
D.13.3.5	CEQA Significance Determination for Proposed Project and Connected Actions	D.13-22
D.13.4	Environmental Impacts of Project Alternatives	D.13-24
D.13.4.1	Tower Relocation Alternative	D.13-24
D.13.4.2	Iowa Street 66 kV Underground Alternative	D.13-27
D.13.4.3	Phased Build Alternative	D.13-28
D.13.5	Environmental Impacts of No Project / No Action Alternative	D.13-31
D.13.5.1	No Project Alternative Option 1	D.13-31
D.13.5.2	No Project Alternative Option 2	D.13-31
D.13.6	Mitigation Monitoring, Compliance, and Reporting	D.13-32
D.13.7	References	D.13-33
<b>D.14</b>	<b>Paleontological Resources</b>	<b>D.14-1</b>
D.14.1	Environmental Setting / Affected Environment	D.14-1
D.14.1.1	Regional Setting and Approach to Data Collection	D.14-2
D.14.1.2	Environmental Setting by Segment	D.14-4
D.14.1.3	Environmental Setting for Connected Actions	D.14-10
D.14.2	Applicable Regulations, Plans, and Standards	D.14-12
D.14.2.1	Federal	D.14-12
D.14.2.2	State	D.14-13
D.14.2.3	Local	D.14-14
D.14.3	Environmental Impacts of the Proposed Project	D.14-16
D.14.3.1	Approach to Impact Assessment	D.14-16
D.14.3.2	CEQA Significance Criteria	D.14-17
D.14.3.3	Impacts and Mitigation Measures	D.14-18
D.14.3.4	Impacts of Connected Actions	D.14-21
D.14.3.5	CEQA Significance Determination for Proposed Project and Connected Actions	D.14-21
D.14.4	Environmental Impacts of Project Alternatives	D.14-22
D.14.4.1	Tower Relocation Alternative	D.14-22
D.14.4.2	Iowa Street 66 kV Underground Alternative	D.14-23
D.14.4.3	Phased Build Alternative	D.14-24
D.14.5	Environmental Impacts of No Project / No Action Alternative	D.14-24
D.14.5.1	No Project Alternative Option 1	D.14-24
D.14.5.2	No Project Alternative Option 2	D.14-25
D.14.6	Mitigation Monitoring, Compliance, and Reporting	D.14-26
D.14.7	References	D.14-30
<b>D.15</b>	<b>Recreation</b>	<b>D.15-1</b>
D.15.1	Environmental Setting / Affected Environment	D.15-1
D.15.1.1	Regional Setting and Approach to Data Collection	D.15-1
D.15.1.2	Environmental Setting by Segment	D.15-1
D.15.1.3	Environmental Setting for Connected Actions	D.15-10
D.15.2	Applicable Regulations, Plans, and Standards	D.15-11
D.15.2.1	Federal	D.15-11

- D.15.2.2 State..... D.15-12
- D.15.2.3 Local..... D.15-12
- D.15.3 Environmental Impacts of the Proposed Project..... D.15-12
  - D.15.3.1 Approach to Impact Assessment..... D.15-12
  - D.15.3.2 CEQA Significance Criteria ..... D.15-13
  - D.15.3.3 Impacts and Mitigation Measures ..... D.15-13
  - D.15.3.4 Impacts of Connected Actions ..... D.15-16
  - D.15.3.5 CEQA Significance Determination for Proposed Project and Connected Actions ..... D.15-18
- D.15.4 Environmental Impacts of Project Alternatives ..... D.15-19
  - D.15.4.1 Tower Relocation Alternative ..... D.15-19
  - D.15.4.2 Iowa Street 66 kV Underground Alternative ..... D.15-21
  - D.15.4.3 Phased Build Alternative..... D.15-22
- D.15.5 Environmental Impacts of No Project / No Action Alternative ..... D.15-24
  - D.15.5.1 No Project Alternative Option 1 ..... D.15-24
  - D.15.5.2 No Project Alternative Option 2 ..... D.15-24
- D.15.6 Mitigation Monitoring, Compliance, and Reporting ..... D.15-25
- D.15.7 References..... D.15-26
- D.16 Transportation and Traffic..... D.16-1**
  - D.16.1 Environmental Setting / Affected Environment ..... D.16-1
    - D.16.1.1 Regional Setting and Approach to Data Collection ..... D.16-1
    - D.16.1.2 Environmental Setting by Segment..... D.16-2
    - D.16.1.3 Environmental Setting for Connected Actions..... D.16-10
  - D.16.2 Applicable Regulations, Plans, and Standards..... D.16-10
    - D.16.2.1 Federal..... D.16-11
    - D.16.2.2 State..... D.16-11
    - D.16.2.3 Local..... D.16-11
  - D.16.3 Environmental Impacts of the Proposed Project..... D.16-12
    - D.16.3.1 Approach to Impact Assessment..... D.16-12
    - D.16.3.2 CEQA Significance Criteria ..... D.16-13
    - D.16.3.3 Impacts and Mitigation Measures ..... D.16-13
    - D.16.3.4 Impacts of Connected Actions ..... D.16-23
    - D.16.3.5 CEQA Significance Determination for Proposed Project and Connected Actions ..... D.16-24
  - D.16.4 Environmental Impacts of Project Alternatives ..... D.16-26
    - D.16.4.1 Tower Relocation Alternative ..... D.16-26
    - D.16.4.2 Iowa Street 66 kV Underground Alternative ..... D.16-30
    - D.16.4.3 Phased Build Alternative..... D.16-34
  - D.16.5 Environmental Impacts of No Project / No Action Alternative ..... D.16-38
    - D.16.5.1 No Project Alternative Option 1 ..... D.16-38
    - D.16.5.2 No Project Alternative Option 2 ..... D.16-38
  - D.16.6 Mitigation Monitoring, Compliance, and Reporting ..... D.16-39
  - D.16.7 References..... D.16-44
- D.17 Utilities and Public Services..... D.17-1**
  - D.17.1 Environmental Setting / Affected Environment ..... D.17-1
    - D.17.1.1 Regional Setting and Approach to Data Collection ..... D.17-1
    - D.17.1.2 Environmental Setting by Segment..... D.17-1
    - D.17.1.3 Environmental Setting for Connected Actions..... D.17-16

D.17.2	Applicable Regulations, Plans, and Standards.....	D.17-17
D.17.2.1	Federal.....	D.17-17
D.17.2.2	State.....	D.17-18
D.17.2.3	Local.....	D.17-18
D.17.3	Environmental Impacts of the Proposed Project.....	D.17-23
D.17.3.1	Approach to Impact Assessment.....	D.17-23
D.17.3.2	CEQA Significance Criteria.....	D.17-23
D.17.3.3	Impacts and Mitigation Measures.....	D.17-24
D.17.3.4	Impacts of Connected Actions.....	D.17-29
D.17.3.5	CEQA Significance Determination for Proposed Project and Connected Actions.....	D.17-32
D.17.4	Environmental Impacts of Project Alternatives.....	D.17-33
D.17.4.1	Tower Relocation Alternative.....	D.17-33
D.17.4.2	Iowa Street 66 kV Underground Alternative.....	D.17-34
D.17.4.3	Phased Build Alternative.....	D.17-36
D.17.5	Environmental Impacts of No Project / No Action Alternative.....	D.17-37
D.17.5.1	No Project Alternative Option 1.....	D.17-37
D.17.5.2	No Project Alternative Option 2.....	D.17-38
D.17.6	Mitigation Monitoring, Compliance, and Reporting.....	D.17-39
D.17.7	References.....	D.17-39
<b>D.18</b>	<b>Visual Resources.....</b>	<b>D.18-1</b>
D.18.1	Environmental Setting / Affected Environment.....	D.18-1
D.18.1.1	Approach to Data Collection and Regional Setting.....	D.18-1
D.18.1.2	Environmental Setting by Segment.....	D.18-10
D.18.1.3	Environmental Setting for Connected Actions.....	D.18-25
D.18.2	Applicable Regulations, Plans, and Standards.....	D.18-26
D.18.2.1	Federal.....	D.18-26
D.18.2.2	State.....	D.18-27
D.18.2.3	Local.....	D.18-27
D.18.3	Environmental Impacts of the Proposed Project.....	D.18-28
D.18.3.1	Approach to Impact Assessment.....	D.18-28
D.18.3.2	CEQA Significance Criteria.....	D.18-31
D.18.3.3	Impacts and Mitigation Measures.....	D.18-32
D.18.3.4	Impacts of Connected Actions.....	D.18-56
D.18.3.5	CEQA Significance Determination for Proposed Project and Connected Actions.....	D.18-59
D.18.4	Environmental Impacts of Project Alternatives.....	D.18-63
D.18.4.1	Tower Relocation Alternative.....	D.18-63
D.18.4.2	Iowa Street 66 kV Underground Alternative.....	D.18-67
D.18.4.3	Phased Build Alternative.....	D.18-68
D.18.5	Environmental Impacts of No Project / No Action Alternative.....	D.18-73
D.18.5.1	No Project Alternative Option 1.....	D.18-73
D.18.5.2	No Project Alternative Option 2.....	D.18-75
D.18.6	Mitigation Monitoring, Compliance, and Reporting.....	D.18-75
D.18.7	References.....	D.18-81

<b>D.19 Water Resources and Hydrology</b> .....	D.19-1
D.19.1 Environmental Setting / Affected Environment .....	D.19-1
D.19.1.1 Regional Setting and Approach to Data Collection .....	D.19-1
D.19.1.2 Environmental Setting by Segment.....	D.19-7
D.19.1.3 Environmental Setting for Connected Actions.....	D.19-12
D.19.2 Applicable Regulations, Plans, and Standards.....	D.19-13
D.19.2.1 Federal.....	D.19-13
D.19.2.2 State.....	D.19-14
D.19.2.3 Local.....	D.19-15
D.19.3 Environmental Impacts of the Proposed Project.....	D.19-15
D.19.3.1 Approach to Impact Assessment.....	D.19-16
D.19.3.2 CEQA Significance Criteria .....	D.19-17
D.19.3.3 Impacts and Mitigation Measures .....	D.19-19
D.19.3.4 Impacts of Connected Actions .....	D.19-25
D.19.3.5 CEQA Significance Determination for Proposed Project and Connected Actions.....	D.19-29
D.19.4 Environmental Impacts of Project Alternatives .....	D.19-31
D.19.4.1 Tower Relocation Alternative .....	D.19-31
D.19.4.2 Iowa Street 66 kV Underground Alternative .....	D.19-33
D.19.4.3 Phased Build Alternative.....	D.19-35
D.19.5 Environmental Impacts of No Project / No Action Alternative .....	D.19-38
D.19.5.1 No Project Alternative Option 1 .....	D.19-38
D.19.5.2 No Project Alternative Option 2 .....	D.19-39
D.19.6 Mitigation Monitoring, Compliance, and Reporting.....	D.19-40
D.19.7 References.....	D.19-41
<b>D.20 Wildland Fire</b> .....	D.20-1
D.20.1 Environmental Setting / Affected Environment .....	D.20-2
D.20.1.1 Regional Setting and Approach to Data Collection .....	D.20-2
D.20.1.2 Environmental Setting by Segment.....	D.20-4
D.20.1.3 Environmental Setting for Connected Actions.....	D.20-5
D.20.2 Applicable Regulations, Plans, and Standards.....	D.20-7
D.20.2.1 Federal.....	D.20-7
D.20.2.2 State.....	D.20-8
D.20.2.3 Local.....	D.20-9
D.20.3 Environmental Impacts of the Proposed Project.....	D.20-11
D.20.3.1 Approach to Impact Assessment.....	D.20-11
D.20.3.2 CEQA Significance Criteria .....	D.20-11
D.20.3.3 Impacts and Mitigation Measures .....	D.20-13
D.20.3.4 Impacts of Connected Actions .....	D.20-16
D.20.3.5 CEQA Significance Determination for Proposed Project and Connected Actions.....	D.20-19
D.20.4 Environmental Impacts of Project Alternatives .....	D.20-20
D.20.4.1 Tower Relocation Alternative .....	D.20-20
D.20.4.2 Iowa Street 66 kV Underground Alternative .....	D.20-22
D.20.4.3 Phased Build Alternative.....	D.20-24

D.20.5	Environmental Impacts of No Project / No Action Alternative .....	D.20-27
D.20.5.1	No Project Alternative Option 1 .....	D.20-27
D.20.5.2	No Project Alternative Option 2 .....	D.20-27
D.20.6	Mitigation Monitoring, Compliance, and Reporting .....	D.20-28
D.20.7	References .....	D.20-29
<b>D.21</b>	<b>Electrical Interference and Safety .....</b>	<b>D.21-1</b>
D.21.1	Environmental Setting / Affected Environment .....	D.21-1
D.21.1.1	Environmental Setting for Connected Actions .....	D.21-2
D.21.2	Applicable Regulations, Plans, and Standards .....	D.21-3
D.21.2.1	Federal .....	D.21-3
D.21.2.2	State .....	D.21-3
D.21.2.3	Local .....	D.21-3
D.21.3	Environmental Impacts of the Proposed Project .....	D.21-3
D.21.3.1	Approach to Impact Assessment .....	D.21-3
D.21.3.2	CEQA Significance Criteria .....	D.21-4
D.21.3.3	Impacts and Mitigation Measures .....	D.21-4
D.21.3.4	Impacts of Connected Actions .....	D.21-6
D.21.3.5	CEQA Significance Determination for Proposed Project and Connected Actions .....	D.21-6
D.21.4	Environmental Impacts of Project Alternatives .....	D.21-7
D.21.4.1	Tower Relocation Alternative .....	D.21-7
D.21.4.2	Iowa Street 66 kV Underground Alternative .....	D.21-9
D.21.4.3	Phased Build Alternative .....	D.21-10
D.21.5	Environmental Impacts of No Project / No Action Alternative .....	D.21-12
D.21.5.1	No Project Alternative Option 1 .....	D.21-12
D.21.5.2	No Project Alternative Option 2 .....	D.21-12
D.21.6	Mitigation Monitoring, Compliance, and Reporting .....	D.21-13
D.21.7	References .....	D.21-14
<b>E.</b>	<b>Cumulative Scenario and Impacts .....</b>	<b>E-1</b>
E.1	Introduction and Methodology .....	E-1
E.2	Cumulative Projects .....	E-2
E.2.1	Cumulative Project List .....	E-2
E.2.2	North-South Pipeline .....	E-2
E.2.3	Future 500 kV Transmission Line in WOD Corridor .....	E-13
E.3	Cumulative Impact Analysis for the Proposed Project .....	E-23
E.3.1	Introduction .....	E-23
E.3.2	Agriculture .....	E-23
E.3.3	Air Quality .....	E-25
E.3.4	Biological Resources – Vegetation .....	E-27
E.3.5	Biological Resources – Wildlife .....	E-30
E.3.6	Climate Change / Greenhouse Gas Emissions .....	E-34
E.3.7	Cultural Resources .....	E-34
E.3.8	Socioeconomics and Environmental Justice .....	E-36
E.3.9	Geology and Soils .....	E-38
E.3.10	Hazards and Hazardous Materials .....	E-39
E.3.11	Land Use and BLM Realty .....	E-41
E.3.12	Mineral Resources .....	E-43
E.3.13	Noise .....	E-45

E.3.14	Paleontological Resources.....	E-47
E.3.15	Recreation.....	E-49
E.3.16	Transportation and Traffic.....	E-51
E.3.17	Utilities and Public Services.....	E-52
E.3.18	Visual Resources.....	E-54
E.3.19	Water Resources and Hydrology.....	E-66
E.3.20	Wildland Fire.....	E-72
E.3.21	Electrical Interference and Safety.....	E-73
E.4	Cumulative Impact Analysis of Alternatives.....	E-75
E.5	References.....	E-75
<b>F.</b>	<b>Other CEQA and NEPA Requirements.....</b>	<b>F-1</b>
F.1	Growth-Inducing Effects.....	F-1
F.1.1	Growth Caused by Direct and Indirect Employment.....	F-2
F.1.2	Growth Related to Provision of Additional Electric Power.....	F-3
F.1.3	Growth Related to Development of Additional Power Generation Facilities.....	F-4
F.1.4	Conclusions Regarding Growth-Inducement.....	F-6
F.2	Significant Irreversible and Irretrievable Changes.....	F-6
F.3	Significant Environmental Effects that Cannot be Avoided if the Proposed Project is Implemented.....	F-7
F.4	Relationship Between Short-Term Uses and Long-Term Productivity of the Environment.....	F-8
F.5	Energy Conservation.....	F-9
F.6	References.....	F-10
<b>G.</b>	<b>Comparison of Alternatives.....</b>	<b>G-1</b>
G.1	Introduction.....	G-1
G.2	Regulatory Requirements for Alternatives Comparison.....	G-1
G.2.1	California Environmental Quality Act (CEQA).....	G-1
G.2.2	National Environmental Policy Act (NEPA).....	G-2
G.3	Comparison Methodology.....	G-2
G.4	Comparison of Alternatives.....	G-3
G.4.1	Tower Relocation Alternative.....	G-4
G.4.2	Iowa Street 66 kV Underground Alternative.....	G-6
G.4.3	Phased Build Alternative.....	G-8
G.5	Definition of the CPUC Environmentally Superior Alternative.....	G-10
G.6	No Project / No Action Alternative Compared to the Environmentally Superior Alternative.....	G-10
G.6.1	Comparison of No Project Alternative Option 1 with Proposed Project.....	G-11
G.6.2	Comparison of No Project Alternative Option 2 with Proposed Project.....	G-11
G.6.3	Conclusion Regarding No Project/No Action Alternatives.....	G-12
<b>H.</b>	<b>Mitigation Monitoring and Reporting.....</b>	<b>H-1</b>
H.1	Authority for the MMCRP.....	H-1
H.1.1	California Public Utilities Commission.....	H-1
H.1.2	Bureau of Land Management.....	H-2
H.2	Organization of the MMCRP.....	H-2
H.3	Roles and Responsibilities.....	H-3
H.3.1	Enforcement Responsibility.....	H-4
H.3.2	Compliance Responsibility.....	H-4

H.4	Dispute Resolution.....	H-5
H.5	General Monitoring Procedures.....	H-5
H.5.1	Environmental Monitors.....	H-5
H.5.2	Construction Personnel.....	H-5
H.5.3	Reporting Procedures.....	H-6
H.5.4	Public Access to Records.....	H-6
<b>I.</b>	<b>Public Participation and Consultation.....</b>	<b>I-1</b>
I.1	Introduction.....	I-1
I.2	EIR/EIS Scoping Process.....	I-1
I.2.1	Notice of Preparation and Notice of Intent.....	I-1
I.2.2	Scoping Meetings.....	I-2
I.2.3	CPUC Scoping Report.....	I-2
I.2.4	BLM Scoping Report.....	I-3
I.3	Draft EIR/EIS Public Review Period.....	I-5
I.4	EIR/EIS Mailing List.....	I-5
I.5	Notice of Availability.....	I-5
I.6	EIR/EIS Information and Repository Sites.....	I-5
I.7	Consultation Processes for ESA Section 7, NHPA Section 106, and Indian Tribes.....	I-6
I.7.1	Endangered Species Act Section 7 Consultation.....	I-6
I.7.2	National Historic Preservation Act Section 106 Consultation.....	I-6
I.7.3	BLM’s Government-to-Government Consultation with Indian Tribes.....	I-8
<b>J.</b>	<b>Glossary, Acronyms, Abbreviations.....</b>	<b>J-1</b>
<b>K.</b>	<b>Index.....</b>	<b>K-1</b>

**Tables**

Table ES-1	Summary of Alternatives Analyzed.....	ES-71
Table ES-2	Summary of Significant Unmitigable (Class I) Impacts for the Proposed Project.....	ES-76
Table ES-3	Summary of Significant but Mitigable (Class II) Impacts and Mitigation for the Proposed Project.....	ES-77
Table ES-4	Summary of Significant Unmitigable (Class I) Impacts for the Connected Actions.....	ES-83
Table ES-5	Summary of Significant but Mitigable (Class II) Impacts and Mitigation for the Connected Actions.....	ES-84
Table A-1	SCE’s Purpose and Need.....	A-4
Table A-2	Capacity of Individual 220 kV Circuits, Existing and Proposed.....	A-6
Table A-3	Planned Generation in SCE Transition Cluster (2010).....	A-8
Table A-4	Projects Contributing to Need for WOD Upgrade Project.....	A-9
Table A-5	California’s RPS Compliance Status.....	A-12
Table A-6	Project Analysis Determinations.....	A-13
Table A-7	Permits that May Be Required for the West of Devers Upgrade Project.....	A-16
Table B-1	Typical Transmission Structure Dimensions.....	B-7
Table B-2	Transmission 220 kV Removal and Installation Per Segment.....	B-7
Table B-3	Existing SCE Right-of-Way Widths.....	B-19
Table B-4	Approximate Land Disturbance Summary for the Proposed Project.....	B-22
Table B-5	Potential Staging Yard Locations.....	B-23
Table B-6	Potential Staging Yard Approximate Land Disturbance.....	B-23
Table B-7	Approximate Laydown/Work Area Dimensions.....	B-25
Table B-8	Potential Water Providers to WOD Upgrade Project.....	B-26

Table B-9	Substation Cut/Fill Grading and Surface Improvements Summary .....	B-27
Table B-10	Approximate Length of New Retaining Wall Per Segment .....	B-29
Table B-11	Transmission Approximate Land Disturbance.....	B-31
Table B-12	Subtransmission Approximate Land Disturbance .....	B-32
Table B-13	Transmission Shoo-Fly Approximate Land Disturbance .....	B-39
Table B-14	Existing Underground Pipelines in Project Area Potentially Requiring Protection Measures .....	B-42
Table B-15	Approximate Land Disturbance of Distribution Line Construction.....	B-46
Table B-16	Telecommunication System Approximate Land Disturbance.....	B-48
Table B-17	Telecommunication System Construction Equipment and Workforce Estimates.....	B-49
Table B-18	Preliminary Construction Durations.....	B-53
Table B-19	Magnetic Field Levels along Existing 220 kV Transmission Corridor.....	B-57
Table B-20	Calculated Magnetic Field Levels along Proposed 220 kV Transmission Corridor.....	B-58
Table B-21	Applicant Proposed Measures (APMs).....	B-60
Table B-22	Connected Actions – Solar Generation Projects.....	B-66
Table B-23	Analysis Assumptions for Confidential Connected Action Projects, All Solar PV.....	B-69
Table B-24	Analysis Assumptions for Connected Actions.....	B-70
Table C-1	Alternatives Fully Analyzed in EIR/EIS.....	C-7
Table C-2	Alternatives Eliminated from EIR/EIS Consideration After Detailed Screening .....	C-8
Table D.2-1	California Farmland Inventory 2008 and 2010 .....	D.2-3
Table D.2-2	Important Farmland in the Project Vicinity (Farmland Mapping and Monitoring Program) .....	D.2-5
Table D.2-3	Mitigation Monitoring Program – Agriculture .....	D.2-17
Table D.3-1	National and California Ambient Air Quality Standards.....	D.3-1
Table D.3-2	Attainment Status for South Coast Air Basin and Salton Sea Air Basin.....	D.3-2
Table D.3-3	General Conformity Rule Applicability Thresholds.....	D.3-6
Table D.3-4	Applicant Proposed Measures – Air Quality .....	D.3-9
Table D.3-5	Significance Thresholds for Regional Air Quality.....	D.3-10
Table D.3-6	Localized Significance Thresholds for Construction Sites.....	D.3-10
Table D.3-7	Construction-Phase Emissions and General Conformity.....	D.3-12
Table D.3-8	Construction-Phase Regional Emissions Impacts.....	D.3-12
Table D.3-9	Construction-Phase Localized Emissions Impacts .....	D.3-12
Table D.3-10	Operational-Phase Emissions Impacts to Regional Air Quality.....	D.3-16
Table D.3-11	Mitigation Monitoring Program – Air Quality.....	D.3-27
Table D.4-1	Acreage of Each Vegetation Community and Habitat Type in the Proposed Project Study Area .....	D.4-3
Table D.4-2	Drainage Counts Identified During 2012 and 2013 Assessment Surveys.....	D.4-10
Table D.4-3	Applicant Proposed Measures – Biological Resources.....	D.4-24
Table D.4-4	Maximum Potential Permanent and Temporary Vegetation Removal .....	D.4-30
Table D.4-5	Maximum Potential Permanent Impacts to Jurisdictional Drainage Features .....	D.4-50
Table D.4-6	Maximum Potential Temporary Impacts to Jurisdictional Drainage Features.....	D.4-50
Table D.4-7	Mitigation Monitoring Program – Biological Resources – Vegetation .....	D.4-79
Table D.5-1	Applicant Proposed Measures – Biological Resources – Wildlife.....	D.5-19
Table D.5-2	Alluvial Scrub and Desert Scrub Maximum Potential Impacts on Segments 5 and 6.....	D.5-34
Table D.5-3	Riparian Woodland Maximum Potential Impacts .....	D.5-35
Table D.5-4	Stephens’ Kangaroo Rat Habitat Maximum Potential Impacts.....	D.5-36
Table D.5-5	Coastal California Gnatcatcher Critical Habitat Maximum Potential Impacts.....	D.5-37

Table D.5-6	Mitigation Monitoring Program – Biological Resources, Wildlife .....	D.5-82
Table D.6-1	Summary of OEHHA Findings on Climate Change Indicators in California .....	D.6-2
Table D.6-2	California GHG Emissions Inventory .....	D.6-4
Table D.6-3	Construction-Phase GHG Emissions (MTCO <sub>2</sub> e, Total) .....	D.6-9
Table D.6-4	Operation-Related GHG Emissions (MTCO <sub>2</sub> e/yr) .....	D.6-10
Table D.7-1	Cultural Resources Within the APE of Segment 1 – San Bernardino .....	D.7-11
Table D.7-2	Cultural Resources Within the APE of Segment 2 – Colton and Loma Linda .....	D.7-12
Table D.7-3	Cultural Resources Within the APE of Segment 3 – San Timoteo Canyon .....	D.7-13
Table D.7-4	Cultural Resources Within the APE of Segment 4 – Beaumont and Banning .....	D.7-13
Table D.7-5	Cultural Resources Within the APE of Segment 5 – Morongo Tribal Lands and Surrounding Areas .....	D.7-14
Table D.7-6	Cultural Resources Within the APE of Segment 6 – Whitewater and Devers Resources .....	D.7-15
Table D.7-7	Cultural Resources Within Multiple Segments and Lines .....	D.7-17
Table D.7-8	Cultural Resources Within the Temporary Staging Yard (Hathaway 2 Yard) .....	D.7-18
Table D.7-9	Cultural Resources Within the Telecommunication Route .....	D.7-18
Table D.7-10	Cultural Resources Within the Subtransmission Route .....	D.7-18
Table D.7-11	Local Land Use Documents Applicable to Cultural Resources for the Proposed Project .....	D.7-28
Table D.7-12	Applicant Proposed Measures – Cultural Resources .....	D.7-31
Table D.7-13	NRHP/CRHR Eligible Cultural Resources Within the Project APE .....	D.7-32
Table D.7-14	Mitigation Monitoring Program – Cultural Resources .....	D.7-43
Table D.8-1	Population and Employment .....	D.8-3
Table D.8-2	Housing Availability .....	D.8-4
Table D.8-3	Minority Population by Census Tract .....	D.8-6
Table D.8-4	Minority Population by Jurisdiction .....	D.8-8
Table D.8-5	Population with Income Below Poverty Level by Census Tract .....	D.8-9
Table D.8-6	Population with Income Below Poverty Level by Jurisdiction .....	D.8-10
Table D.8-7	Length of ROW with Environmental Justice Census Tracts within 0.5 Miles .....	D.8-10
Table D.8-8	North American Studies of the Price Impacts of Power Lines .....	D.8-26
Table D.9-1	Summary of Geologic Units along the West of Devers Segment .....	D.9-2
Table D.9-2	Major Soils along the Proposed West of Devers Upgrade Project Route .....	D.9-3
Table D.9-3	Significant Active Faults in the West of Devers Upgrade Project Vicinity .....	D.9-6
Table D.9-4	Significant Historic Earthquakes Affecting the West of Devers Project Vicinity .....	D.9-8
Table D.9-5	Mitigation Monitoring Program – Geology and Soils .....	D.9-38
Table D.10-1	Mitigation Monitoring Program – Hazards and Hazardous Materials .....	D.10-23
Table D.11-1	General Plan Land Use Designations by Proposed Project Component .....	D.11-2
Table D.11-2	General Plan Land Uses for the Proposed Project by Jurisdiction .....	D.11-2
Table D.11-3	Mitigation Monitoring Program – Land Use and BLM Realty .....	D.11-18
Table D.12-1	Applicant Proposed Measures for Minerals .....	D.12-6
Table D.12-2	Mitigation Monitoring Program – Mineral Resources .....	D.12-11
Table D.13-1	Typical Sound Levels Measured in the Environment and Industry .....	D.13-2
Table D.13-2	Existing Ambient Noise Levels .....	D.13-3
Table D.13-3	Protective Noise Levels Recommended by U.S. EPA .....	D.13-6
Table D.13-4	Typical Noise Levels for Individual Construction Equipment .....	D.13-13
Table D.13-5	Construction Noise Levels Versus Distance .....	D.13-15
Table D.13-6	Construction Noise Levels Modeled for Specific Locations .....	D.13-16
Table D.13-7	Construction Staging Area Noise Levels Modeled .....	D.13-16

Table D.13-8	Proposed Project Corona Noise Levels.....	D.13-20
Table D.13-9	Mitigation Monitoring Program – Noise.....	D.13-32
Table D.14-1	Paleontologically Sensitive Units Within the Proposed Project Area.....	D.14-4
Table D.14-2	Paleontological Localities in the San Timoteo Formation Within or Near Segment 2.....	D.14-6
Table D.14-3	Paleontological Localities in the San Timoteo Formation Within or Near Segment 3.....	D.14-7
Table D.14-4	Paleontological Localities in the San Timoteo Formation and Quaternary Older Alluvium Within or Near Segment 4.....	D.14-9
Table D.14-5	Applicant Proposed Measures – Paleontological Resources.....	D.14-17
Table D.14-6	Mitigation Monitoring Program – Paleontological Resources.....	D.14-26
Table D.15-1	Recreational Resources Within the Project Study Area.....	D.15-2
Table D.15-2	Applicant Proposed Measures for Recreation.....	D.15-12
Table D.15-3	Mitigation Monitoring Program – Recreation.....	D.15-25
Table D.16-1	Average Daily Traffic on Highways.....	D.16-3
Table D.16-2	Average Daily Traffic on Major and Primary Arterials.....	D.16-3
Table D.16-3	Regional and Local Truck Routes.....	D.16-4
Table D.16-4	Public Roadways along the Proposed Route – Segment 1: San Bernardino.....	D.16-6
Table D.16-5	Public Roadways along the Proposed Route – Segment 2; Colton and Loma Linda.....	D.16-7
Table D.16-6	Public Roadways along the Proposed Route – Segment 3: San Timoteo Canyon.....	D.16-7
Table D.16-7	Public Roadways along the Proposed Route – Segment 4: Beaumont and Banning.....	D.16-8
Table D.16-8	Public Roadways along the Proposed Route – Segment 5: Morongo Tribal Lands and Surrounding Areas.....	D.16-9
Table D.16-9	Public Roadways along the Proposed Route – Segment 6: Whitewater and Devers.....	D.16-9
Table D.16-10	Applicant Proposed Measures – Transportation.....	D.16-13
Table D.16-11	Mitigation Monitoring Program – Transportation & Traffic.....	D.16-39
Table D.17-1	Public Service and Utility Providers by Jurisdiction – Segment 1.....	D.17-4
Table D.17-2	Public Service and Utility Providers by Jurisdiction – Segment 2.....	D.17-7
Table D.17-3	Public Service and Utility Providers by Jurisdiction – Segment 3.....	D.17-8
Table D.17-4	Utility and Service Providers by Jurisdiction – Beaumont and Banning Segment.....	D.17-11
Table D.17-5	Utility and Service Providers by Jurisdiction – Morongo Tribal Lands and Surrounding Areas.....	D.17-13
Table D.17-6	Utility and Service Providers by Jurisdiction – Whitewater and Devers.....	D.17-15
Table D.17-7	Local Land Use Documents Related to Public Services and Utilities.....	D.17-19
Table D.17-8	Mitigation Monitoring Program – Utilities and Public Services.....	D.17-39
Table D.18-1	Visual Resources Approach.....	D.18-2
Table D.18-2	Visual Resource Management (VRM) Scenic Quality Rating.....	D.18-4
Table D.18-3	Amount of Use Classifications.....	D.18-5
Table D.18-4	Distance Zones.....	D.18-5
Table D.18-5	Visual Resource Management (VRM) Classification Matrix.....	D.18-6
Table D.18-6	Interstate 10 Linear Viewpoint Analysis.....	D.18-8
Table D.18-7	SR 62 Linear Viewpoint Analysis.....	D.18-9
Table D.18-8	San Timoteo Canyon Road Linear Viewpoint Analysis.....	D.18-10
Table D.18-9	General Guidance for Review of Adverse Impact Significance (per CEQA).....	D.18-30

Table D.18-10	Mitigation Monitoring Program – Visual Resources .....	D.18-75
Table D.19-1	Surface Water Features Crossed by the Proposed Project .....	D.19-1
Table D.19-2	Applicant Proposed Measures – Water Resources and Hydrology .....	D.19-16
Table D.19-3	New Transmission Towers in Mapped FEMA 100-Year Floodplains .....	D.19-23
Table D.19-4	Mitigation Monitoring Program – Water Resources and Hydrology .....	D.19-40
Table D.20-1	Mitigation Monitoring Program – Wildland Fire .....	D.20-28
Table D.21-1	Mitigation Monitoring Program – Electrical Interference and Safety .....	D.21-13
Table E-1	West of Devers Upgrade Cumulative Project List .....	E-5
Table F-1	Growth-Inducing Projects – Generation or Transmission Made More Likely by Implementation of WOD Upgrade Project .....	F-5
Table G-1	Summary of Alternatives Analyzed .....	G-3
Table G-2	Comparison of the Proposed Project to Tower Relocation Alternative .....	G-5
Table G-3	Comparison of the Proposed Project to Iowa Street 66 kV Underground Alternative .....	G-7
Table G-4	Comparison of the Proposed Project to Phased Build Alternative .....	G-9
Table I-1	Project Document Repository Sites .....	I-6

## Figures

Figure ES-1	Proposed Project and Project Vicinity .....	ES-3
Figure ES-2	Alternatives Retained .....	ES-13
Figure ES-3a	Route Alternatives Eliminated .....	ES-19
Figure ES-3b	System Alternatives Eliminated .....	ES-21
Figure ES-3c	Alternatives Considered but Not Screened for EIR/EIS Analysis .....	ES-27
Figure ES-4a	No Project Alternative Option 1 .....	ES-31
Figure ES-4b	No Project Alternative Option 2 .....	ES-33
Figure ES-5	Environmentally Superior Alternative .....	ES-73
Figure B-1	Proposed Project and Project Vicinity .....	B-73
Figure B-2a	Proposed Transmission Line Route – Segment 1 .....	B-75
Figure B-2b	Existing and Proposed Corridor Profile – Segment 1 .....	B-77
Figure B-3a	Proposed Transmission Line Route – Segment 2 .....	B-79
Figure B-3b	Existing and Proposed Corridor Profile – Segment 2 .....	B-81
Figure B-4a	Proposed Transmission Line Route – Segment 3 .....	B-83
Figure B-4b	Existing and Proposed Corridor Profile – Segment 3 .....	B-85
Figure B-5a	Proposed Transmission Line Route – Segment 4 .....	B-87
Figure B-5b	Existing and Proposed Corridor Profile – Segment 4 .....	B-89
Figure B-6a	Proposed Transmission Line Route – Segment 5 .....	B-91
Figure B-6b	Existing and Proposed Corridor Profile – Segment 5 .....	B-93
Figure B-6c	Existing and Proposed Corridor Profile – Segment 5 .....	B-94
Figure B-7a	Proposed Transmission Line Route – Segment 6 .....	B-95
Figure B-7b	Existing and Proposed Corridor Profile – Segment 6 .....	B-97
Figure B-8	Existing and Proposed 220 kV Configuration .....	B-98
Figure B-9a	Photos of Existing West of Devers Corridor – Segments 1 and 2 .....	B-99
Figure B-9b	Photos of Existing West of Devers Corridor – Segments 3 and 4 .....	B-101
Figure B-9c	Photos of Existing West of Devers Corridor – Segments 5 and 6 .....	B-103
Figure B-10	Typical 220 kV Transmission Structures .....	B-105
Figure B-11a	Existing Substation Locations .....	B-107
Figure B-11b	Existing Devers Substation Boundary .....	B-109
Figure B-11c	Existing El Casco Substation Boundary .....	B-111

Figure B-11d	Existing Vista Substation Boundary.....	B-113
Figure B-11e	Existing San Bernardino Substation Boundary.....	B-115
Figure B-11f	Existing Etiwanda Substation Boundary.....	B-117
Figure B-11g	Existing Timoteo Substation Boundary.....	B-119
Figure B-11h	Existing Tennessee Substation Boundary.....	B-121
Figure B-12	220 kV Substation Profile.....	B-123
Figure B-13	Proposed Relocated Subtransmission and Distribution Line Route.....	B-125
Figure B-14a	Typical 66 kV Tubular Steel Pole Structures.....	B-127
Figure B-14b	Typical Light-Weight Steel and Wood Poles.....	B-128
Figure B-15a	Proposed Telecommunication Routes – Sheet 1 of 5.....	B-129
Figure B-15b	Proposed Telecommunication Routes – Sheet 2 of 5.....	B-131
Figure B-15c	Proposed Telecommunication Routes – Sheet 3 of 5.....	B-133
Figure B-15d	Proposed Telecommunication Routes – Sheet 4 of 5.....	B-135
Figure B-15e	Proposed Telecommunication Routes – Sheet 5 of 5.....	B-137
Figure B-16	Proposed Staging Yard Locations.....	B-139
Figure B-17	Typical Retaining and Mechanically Stabilized Earth Walls.....	B-141
Figure B-18	Typical Shoo-Fly Structures.....	B-143
Figure B-19	Typical Subtransmission Duct Bank.....	B-145
Figure B-20	Typical Subtransmission Vault.....	B-146
Figure B-21	Typical Distribution Duct Bank.....	B-147
Figure B-22	Typical Distribution Vault.....	B-148
Figure B-23	Typical Telecommunications Duct Bank.....	B-149
Figure B-24	Typical Manhole Design.....	B-151
Figure B-25	Palen Solar Power Project.....	B-153
Figure B-26	Desert Harvest Solar Project.....	B-155
Figure B-27	Blythe Mesa Solar Project.....	B-157
Figure C-1	Alternatives Retained.....	C-11
Figure C-2a	Route Alternatives Eliminated.....	C-13
Figure C-2b	System Alternatives Eliminated.....	C-15
Figure C-2c	Alternatives Considered but Not Screened for EIR/EIS Analysis.....	C-17
Figure C-3	Tower Relocation Alternative.....	C-21
Figure C-4	Iowa Street 66 kV Alternative.....	C-23
Figure C-5	Phased Build Alternative.....	C-27
Figure C-6a	No Project/No Action Alternative Option 1.....	C-43
Figure C-6b	No Project/No Action Alternative Option 2.....	C-49
Figure D.2-1a	Farmland in Project Corridor, Segment 1.....	D.2-19
Figure D.2-1b	Farmland in Project Corridor, Segment 2.....	D.2-21
Figure D.2-1c	Farmland in Project Corridor, Segment 3.....	D.2-23
Figure D.2-1d	Farmland in Project Corridor, Segment 3 & 4.....	D.2-25
Figure D.2-1e	Farmland in Project Corridor, Segment 4.....	D.2-27
Figure D.2-1f	Farmland in Project Corridor, Segment 4.....	D.2-29
Figure D.2-1g	Farmland in Project Corridor, Segment 4 & 5.....	D.2-31
Figure D.2-1h	Farmland in Project Corridor, Segment 4 & 5.....	D.2-33
Figure D.2-1i	Farmland in Project Corridor, Segment 5.....	D.2-35
Figure D.2-1j	Farmland in Project Corridor, Segment 6.....	D.2-37
Figure D.2-1k	Farmland in Project Corridor, Segment 6.....	D.2-39
Figure D.3-1	Federal Ozone Nonattainment and Class 1 Areas.....	D.3-31
Figure D.8-1	Census Tracts Used in Socioeconomic Analysis.....	D.8-41

Figure D.8-2	Census Tracts Meeting Environmental Justice Criteria.....	D.8-43
Figure D.9-1	Geologic Map.....	D.9-43
Figure D.9-2	Soil Distribution.....	D.9-45
Figure D.9-3	Active Faults and Historic Earthquakes.....	D.9-47
Figure D.9-4a	Segment 1 Fault Crossings.....	D.9-49
Figure D.9-4b	Segment 2 Fault Crossings.....	D.9-51
Figure D.9-4c	Segment 3 Fault Crossings.....	D.9-53
Figure D.9-4d	Segment 4 Fault Crossings.....	D.9-55
Figure D.9-4e	Segment 5 Fault Crossings.....	D.9-57
Figure D.9-4f	Segment 6 Fault Crossings.....	D.9-59
Figure D.11-1a	General Plan Land Use, Segment 1.....	D.11-21
Figure D.11-1b	General Plan Land Use, Segment 2.....	D.11-23
Figure D.11-1c	General Plan Land Use, Segment 3.....	D.11-25
Figure D.11-1d	General Plan Land Use, Segments 3 & 4.....	D.11-27
Figure D.11-1e	General Plan Land Use, Segment 4.....	D.11-29
Figure D.11-1f	General Plan Land Use, Segment 4.....	D.11-31
Figure D.11-1g	General Plan Land Use, Segments 4 & 5.....	D.11-33
Figure D.11-1h	General Plan Land Use, Segments 4 & 5.....	D.11-35
Figure D.11-1i	General Plan Land Use, Segment 5.....	D.11-37
Figure D.11-1j	General Plan Land Use, Segment 6.....	D.11-39
Figure D.11-1k	General Plan Land Use, Segment 6.....	D.11-41
Figure D.11-2a	Zoning, Segment 1.....	D.11-43
Figure D.11-2b	Zoning, Segment 2.....	D.11-45
Figure D.11-2c	Zoning, Segment 3.....	D.11-47
Figure D.11-2d	Zoning, Segment 3 & 4.....	D.11-49
Figure D.11-2e	Zoning, Segment 4.....	D.11-51
Figure D.11-2f	Zoning, Segment 4.....	D.11-53
Figure D.11-2g	Zoning, Segment 4 & 5.....	D.11-55
Figure D.11-2h	Zoning, Segment 4 & 5.....	D.11-57
Figure D.11-2i	Zoning, Segment 5.....	D.11-59
Figure D.11-2j	Zoning, Segment 6.....	D.11-61
Figure D.11-2k	Zoning, Segment 6.....	D.11-63
Figure D.13-1	Noise Monitoring Locations.....	D.13-35
Figure D.15-1a	Recreational Resources, Segment 1.....	D.15-29
Figure D.15-1b	Recreational Resources, Segment 2.....	D.15-31
Figure D.15-1c	Recreational Resources, Segment 3.....	D.15-33
Figure D.15-1d	Recreational Resources, Segment 3 & 4.....	D.15-35
Figure D.15-1e	Recreational Resources, Segment 4.....	D.15-37
Figure D.15-1f	Recreational Resources, Segment 4.....	D.15-39
Figure D.15-1g	Recreational Resources, Segment 4 & 5.....	D.15-41
Figure D.15-1h	Recreational Resources, Segment 4 & 5.....	D.15-43
Figure D.15-1i	Recreational Resources, Segment 5.....	D.15-45
Figure D.15-1j	Recreational Resources, Segment 6.....	D.15-47
Figure D.15-1k	Recreational Resources, Segment 6.....	D.15-49
Figure D.18-1	Viewshed Analysis Segment 1.....	D.18-83
Figure D.18-2	Viewshed Analysis Segment 2.....	D.18-85
Figure D.18-3	Viewshed Analysis Segment 3.....	D.18-87
Figure D.18-4	Viewshed Analysis Segment 4.....	D.18-89

Figure D.18-5	Viewshed Analysis Segment 5 .....	D.18-91
Figure D.18-6	Viewshed Analysis Segment 6 .....	D.18-93
Figure D.18-7A	Linear Viewpoint Map – Interstate 10 – West .....	D.18-95
Figure D.18-7B	Linear Viewpoint Map – Interstate 10 – East .....	D.18-97
Figure D.18-7C	Linear Viewpoint Map – San Timoteo Canyon .....	D.18-99
Figure D.18-8A	KOP 1 – Mission Road at ROW – Existing View .....	D.18-101
Figure D.18-8B	KOP 1 – Mission Road at ROW – Visual Simulation .....	D.18-103
Figure D.18-9A	KOP 2 – Canyon Vista Drive – Existing View .....	D.18-105
Figure D.18-9B	KOP 2 – Canyon Vista Drive – Visual Simulation .....	D.18-107
Figure D.18-9C	KOP 2 – Canyon Vista Drive – Visual Simulation .....	D.18-109
Figure D.18-10A	KOP 3 – Pilgrim Road – Existing View .....	D.18-111
Figure D.18-10B	KOP 3 – Pilgrim Road – Visual Simulation .....	D.18-113
Figure D.18-11A	KOP 4 – San Timoteo Canyon Road – Existing Road .....	D.18-115
Figure D.18-11B	KOP 4 – San Timoteo Canyon Road – Visual Simulation .....	D.18-117
Figure D.18-11C	KOP 4 – San Timoteo Canyon Road – Visual Simulation .....	D.18-119
Figure D.18-12A	KOP 5 – Boros Boulevard – Existing View .....	D.18-121
Figure D.18-12B	KOP 5 – Boros Boulevard – Visual Simulation .....	D.18-123
Figure D.18-13A	KOP 6 – Stetson Community Park – Existing View .....	D.18-125
Figure D.18-13B	KOP 6 – Stetson Community Park – Visual Simulation .....	D.18-127
Figure D.18-14A	KOP 7 – Solera Oakmont Clubhouse – Existing View .....	D.18-129
Figure D.18-14B	KOP 7 – Solera Oakmont Clubhouse – Visual Simulation .....	D.18-131
Figure D.18-15A	KOP 8 – The Estates – Existing View .....	D.18-133
Figure D.18-15B	KOP 8 – The Estates – Visual Simulation .....	D.18-135
Figure D.18-16A	KOP 9 – Cedar Hollow Road – Existing View .....	D.18-137
Figure D.18-16B	KOP 9 – Cedar Hollow Road – Visual Simulation .....	D.18-139
Figure D.18-17A	KOP 10 – Bluff Street – Existing View .....	D.18-141
Figure D.18-17B	KOP 10 – Bluff Street – Visual Simulation .....	D.18-143
Figure D.18-18A	KOP 11 – Hathaway Street – Existing View .....	D.18-145
Figure D.18-18B	KOP 11 – Hathaway Street – Visual Simulation .....	D.18-147
Figure D.18-19A	KOP 12 – Morongo Community Center – Existing View .....	D.18-149
Figure D.18-19B	KOP 12 – Morongo Community Center – Visual Simulation .....	D.18-151
Figure D.18-20A	KOP 13 – Haugen-Lehman Way – Existing View .....	D.18-153
Figure D.18-20B	KOP 13 – Haugen-Lehman Way – Visual Simulation .....	D.18-155
Figure D.18-21A	KOP 14 – PCT Parking Lot – Existing View .....	D.18-157
Figure D.18-21B	KOP 14 – PCT Parking Lot – Visual Simulation .....	D.18-159
Figure D.18-22A	KOP 15 – Whitewater Canyon Road – Existing View .....	D.18-161
Figure D.18-22B	KOP 15 – Whitewater Canyon Road – Visual Simulation .....	D.18-163
Figure D.18-23A	KOP 16 – Painted Hills Road – Existing View .....	D.18-165
Figure D.18-23B	KOP 16 – Painted Hills Road – Visual Simulation .....	D.18-167
Figure D.18-24A	KOP 17 – Southbound SR 62 – Existing View .....	D.18-169
Figure D.18-24B	KOP 17 – Southbound SR 62 – Visual Simulation .....	D.18-171
Figure D.18-25A	KOP 18 – Northbound Iowa Street – Existing View .....	D.18-173
Figure D.18-25B	KOP 18 – Northbound Iowa Street – Visual Simulation .....	D.18-175
Figure D.19-1a	Hydrologic Features: Groundwater Basins, Floodplains, and Streams .....	D.19-43
Figure D.19-1b	Hydrologic Features: Groundwater Basins, Floodplains, and Streams .....	D.19-45
Figure D.19-1c	Hydrologic Features: Groundwater Basins, Floodplains, and Streams .....	D.19-47
Figure D.19-1d	Hydrologic Features: Groundwater Basins, Floodplains, and Streams .....	D.19-49
Figure D.19-1e	Hydrologic Features: Groundwater Basins, Floodplains, and Streams .....	D.19-51

Figure D.19-1f	Hydrologic Features: Groundwater Basins, Floodplains, and Streams .....	D.19-53
Figure D.19-1g	Hydrologic Features: Groundwater Basins, Floodplains, and Streams .....	D.19-55
Figure D.19-1h	Hydrologic Features: Groundwater Basins, Floodplains, and Streams .....	D.19-57
Figure D.19-1i	Hydrologic Features: Groundwater Basins, Floodplains, and Streams .....	D.19-59
Figure D.20-1	Fire Protection Responsibility Areas .....	D.20-31
Figure D.20-2	Fire Hazard Severity Zones .....	D.20-33
Figure D.20-3	Fire History .....	D.20-35
Figure E-1a	Cumulative Projects .....	E-3
Figure E-1b	DRECP Transmission Technical Group Map for Preferred Alternative .....	E-15
Figure E-2a	Cumulative Future 500 kV Corridor Profile – Segment 2 .....	E-19
Figure E-2b	Cumulative Future 500 kV Corridor Profile – Segment 3 .....	E-20
Figure E-2c	Cumulative Future 500 kV Corridor Profile – Segment 4 .....	E-21
Figure E-2d	Cumulative Future 500 kV Corridor Profile – Segment 6 .....	E-22
Figure E-3a	KOP 2 – Canyon Vista Drive – Cumulative Simulation .....	E-59
Figure E-3b	KOP 4 – San Timoteo Canyon Road – Cumulative Simulation .....	E-61
Figure E-3c	KOP 7 – Solera Oakmont Clubhouse – Cumulative Simulation .....	E-63
Figure E-3d	KOP 12 – Morongo Community Center – Cumulative Simulation .....	E-67
Figure E-3e	KOP 13 – Haugen-Lehman Way – Cumulative Simulation .....	E-69
Figure G-1	Environmentally Superior Alternative .....	G-13

## Appendices

Appendix 1	Project Description Information
	Appendix 1A – Structure Height Tables
	Appendix 1B – FAA Hazard Marking Evaluations
	Appendix 1C – Construction Equipment and Workforce Estimates
Appendix 2	Detailed Project Maps
Appendix 3	SCE-Morongo ROW Agreement – Appendix J of SCE’s Application A.13-10-020
Appendix 4	EMF Field Management Plan
Appendix 5	Alternatives Screening Report
	Attachment 1 – Phased Build Alternative Supporting Data
	Attachment 2 – Project Alternatives Assessment - A Power Flow Analysis
	Attachment 3 – Existing Structures Design Review
Appendix 6	Air Quality
Appendix 7	Biological Resources
	Biological Resources Figures
	Tables of Special Status Plants and Wildlife
Appendix 8	Cultural Resources
Appendix 9	Policy Screening Report
Appendix 10	Visual Resources
Appendix 11	EIR/EIS Information Contacts
Appendix 12	Preparers and Reviewers
Appendix 13	Recipients of the EIR/EIS