

Table of Contents

**ES.0 EXECUTIVE SUMMARY ..... 1**

ES.1 INTRODUCTION ..... 1

ES.2 DOCUMENT ORGANIZATION ..... 1

ES.3 PROJECT DESCRIPTION..... 2

ES.4 POTENTIAL ENVIRONMENTAL IMPACTS..... 2

ES.5 SUMMARY OF IMPACTS AND MITIGATION MEASURES..... 3

**1.0 PROJECT DESCRIPTION ..... 11**

1.1 PROJECT TITLE ..... 11

1.2 PROJECT SPONSOR’S NAME AND ADDRESS..... 11

1.3 LEAD AGENCY NAME AND ADDRESS..... 11

1.4 LEAD AGENCY CONTACT PERSON AND PHONE NUMBER..... 11

1.5 PROJECT OVERVIEW ..... 11

1.6 PROJECT LOCATION ..... 12

1.7 SURROUNDING LAND USES AND SETTING ..... 12

1.8 PURPOSE AND NEED..... 17

1.9 DESCRIPTION OF INDIVIDUAL PROJECT COMPONENTS ..... 18

    1.9.1 Substation ..... 18

    1.9.2 Subtransmission Line Modifications ..... 24

    1.9.3 Telecommunication System..... 33

    1.9.4 Project Design Considerations/ Applicant Proposed Measures (APMs)..... 34

1.10 PROJECT SCHEDULE AND PERSONNEL REQUIREMENTS ..... 38

**2.0 ENVIRONMENTAL CHECKLIST AND DISCUSSION ..... 39**

2.1 AESTHETICS ..... 39

    2.1.1 Setting..... 39

    2.1.2 Environmental Impacts and Mitigation Measures ..... 40

2.2 AGRICULTURAL RESOURCES ..... 51

    2.2.1 Setting..... 51

    2.2.2 Environmental Impacts and Mitigation Measures ..... 52

2.3 AIR QUALITY ..... 54

    2.3.1 Setting..... 54

    2.3.2 Environmental Impacts and Mitigation Measures ..... 60

2.4 BIOLOGICAL RESOURCES..... 67

    2.4.1 Setting..... 67

    2.4.2 Environmental Impacts and Mitigation Measures ..... 72

2.5 CULTURAL RESOURCES ..... 80

    2.5.1 Setting..... 81

    2.5.2 Environmental Impacts and Mitigation Measures ..... 81

2.6 GEOLOGY AND SOILS ..... 84

    2.6.1 Setting..... 85

    2.6.2 Environmental Impacts and Mitigation Measures ..... 85

2.7 HAZARDS AND HAZARDOUS MATERIALS ..... 93

    2.7.1 Setting..... 94

    2.7.2 Environmental Impacts and Mitigation Measures ..... 95

2.8	HYDROLOGY AND WATER QUALITY .....	100
2.8.1	Setting .....	101
2.8.2	Environmental Impacts and Mitigation Measures .....	102
2.9	LAND USE AND PLANNING .....	107
2.9.1	Setting .....	108
2.9.2	Environmental Impacts and Mitigation Measures .....	115
2.10	MINERAL RESOURCES .....	117
2.10.1	Setting .....	117
2.10.2	Environmental Impacts and Mitigation Measures .....	118
2.11	NOISE .....	119
2.11.1	Setting .....	119
2.11.2	Environmental Impacts and Mitigation Measures .....	124
2.12	POPULATION AND HOUSING .....	127
2.12.1	Setting .....	128
2.12.2	Environmental Impacts and Mitigation Measures .....	128
2.13	PUBLIC SERVICES .....	129
2.13.1	Setting .....	130
2.13.2	Environmental Impacts and Mitigation Measures .....	133
2.14	RECREATION .....	134
2.14.1	Setting .....	134
2.14.2	Environmental Impacts and Mitigation Measures .....	135
2.15	TRANSPORTATION/TRAFFIC .....	135
2.15.1	Setting .....	136
2.15.2	Environmental Impacts and Mitigation Measures .....	136
2.16	UTILITIES AND SERVICE SYSTEMS .....	142
2.16.1	Setting .....	143
2.16.2	Environmental Impacts and Mitigation Measures .....	144
2.17	Mandatory Findings of Significance .....	147
<b>3.0</b>	<b>REFERENCES.....</b>	<b>149</b>
<b>4.0</b>	<b>ENVIRONMENTAL DETERMINATION .....</b>	<b>152</b>
<b>5.0</b>	<b>LIST OF PREPARERS AND CONSULTATIONS.....</b>	<b>153</b>
5.1	LEAD AGENCY .....	153
5.2	PROJECT MANAGEMENT AND DOCUMENT PRODUCTION .....	153
5.3	PERSONS COSULTED .....	153
<b>6.0</b>	<b>MITIGATION MONITORING, REPORTING, AND COMPLIANCE PROGRAM.....</b>	<b>154</b>
6.1	INTRODUCTION AND SUMMARY .....	154
6.2	PROJECT DESCRIPTION .....	155
6.3	ROLES AND RESPONSIBILITIES .....	156
6.4	GENERAL MONITORING PROCEDURES .....	158
6.5	PUBLIC ACCESS TO RECORDS .....	159
6.6	CONDITION EFFECTIVENESS REVIEW .....	159
6.7	MITIGATION MONITORING AND REPORTING PROGRAM .....	159

Appendices (Included on CD in back pocket)

Appendix A Air Quality  
 Appendix B Biological Surveys (SCE)  
 Appendix C Biological Survey (HDR)  
 Appendix D Archaeological Resources  
 Appendix E Noise  
 Appendix F Cumulative Projects List

Tables

Table ES-1. Summary of Environmental Impacts and Mitigation Measures ..... 4  
 Table 1.9-1. Proposed Subtransmission Line Modifications..... 29  
 Table 1.9-2. Project Design Considerations/Applicant Proposed Measures (APMs) ..... 37  
 Table 2.3-1. Federal and California Ambient Air Quality Standards and SCAB Attainment Status.... 56  
 Table 2.3-2. SCAQMD Construction Emission Thresholds ..... 57  
 Table 2.3-3. SCAQMD Ambient Concentration Thresholds ..... 57  
 Table 2.3-4. Recommended AB 32 Greenhouse Gas Measures to be Initiated by CARB  
 Between 2007 and 2012..... 59  
 Table 2.3-5. Estimated Mitigated Construction Emissions for Phase I of Proposed Project ..... 61  
 Table 2.3-6. Estimated Mitigated Construction Emissions for Phase II of Proposed Project..... 62  
 Table 2.3-7. SCAQMD Localized Significance Thresholds ..... 64  
 Table 2.3-8. Mitigated Greenhouse Gas Emissions (Metric Tons CO<sub>2</sub>E)..... 66  
 Table 2.4-1. CNDDDB Records Search of Corona North and Prado Dam USGS 7.5' Quadrangles..... 69  
 Table 2.4-2. Sensitive Species with the Potential to Occur in the Vicinity of the Proposed  
 Project Site..... 73  
 Table 2.11-1. Typical Noise Levels for Construction Equipment..... 121  
 Table 2.11-2. Typical Noise Levels for Construction Activities..... 121  
 Table 2.11-3. Ambient Noise Levels at the Proposed Substation ..... 123  
 Table 2.11-4. Proposed Substation Operation Noise Evaluation ..... 124  
 Table 2.12-1. Regional Population Trends..... 128  
 Table 6-1. Mitigation Monitoring and Reporting Program Checklist..... 160

## Figures

Figure 1.6-1.	Regional/Vicinity Map .....	13
Figure 1.6-2.	Project Area .....	15
Figure 1.8-1.	Electrical Needs Area .....	19
Figure 1.9-1.	Site Plan .....	21
Figure 1.9-2.	Existing and Proposed Subtransmission Line Arrangements .....	25
Figure 1.9-3.	Proposed Subtransmission Line Modifications .....	27
Figure 1.9-4.	Typical Subtransmission Line Poles .....	31
Figure 1.9-5.	Proposed Telecommunications Improvements .....	35
Figure 2.1-1.	Simulation of Proposed Substation .....	43
Figure 2.1-2.	Simulation of Subtransmission Line Along Kimball Avenue .....	45
Figure 2.1-3.	Simulation of Subtransmission Line Along Kimball Avenue .....	47
Figure 2.1-4.	Simulation of Subtransmission Line Along Edison Avenue .....	49
Figure 2.4-1.	Delhi Sands Flower Loving Fly Habitat .....	75
Figure 2.6-1.	Regional Fault Map .....	87
Figure 2.6-2.	Soils Map .....	91
Figure 2.8-1.	Hydrological Features .....	103
Figure 2.9-1.	Land Jurisdiction .....	109
Figure 2.9-2.	Existing Land Uses .....	111
Figure 2.9-3.	Proposed Land Uses .....	113
Figure 2.13-1.	Community Services .....	131
Figure 2.15-1.	Project Area Circulation .....	137