

Contents

1.	Mitigated Negative Declaration	1-1
1.1	Project Information.....	1-1
1.2	Introduction.....	1-1
1.3	Project Description Summary.....	1-2
1.4	Environmental Determination.....	1-2
2.	Environmental Determination	2-1
2.1	Environmental Factors Potentially Affected.....	2-1
2.2	Environmental Determination.....	2-1
3.	Introduction to the Initial Study	3-1
3.1	Proposed Project Overview.....	3-1
3.2	Environmental Analysis.....	3-1
3.2.1	CEQA Process.....	3-1
3.2.2	CEQA Lead Agency.....	3-1
3.2.3	Initial Study.....	3-1
4.	Project Description	4-1
4.1	Project Title.....	4-1
4.2	Lead Agency Name and Address.....	4-1
4.3	Lead Agency Contact Person and Phone Number.....	4-1
4.4	Project Location.....	4-1
4.5	Project Sponsor’s Name and Address.....	4-1
4.6	General Plan Designation.....	4-2
4.7	Zoning.....	4-2
4.8	Surrounding Land Uses and Setting.....	4-2
4.9	Project Overview.....	4-3
4.9.1	Project Objectives.....	4-4
4.9.2	Purpose and Need.....	4-4
4.10	Project Components.....	4-5
4.10.1	Ocean Ranch Distribution Substation.....	4-5
4.10.2	Power Line TL 6966 Loop-In.....	4-7
4.10.3	12 kV Distribution System.....	4-8
4.10.4	Telecommunication Systems.....	4-10
4.11	Project Construction.....	4-10
4.11.1	Work Areas.....	4-10
4.11.2	Construction Methods.....	4-13
4.11.3	Construction Equipment and Personnel.....	4-18
4.11.4	Cut and Fill.....	4-22
4.11.5	Permanent Land/Right-of-Way Requirements.....	4-23
4.12	Operation and Maintenance.....	4-23
4.12.1	Substation Operation and Maintenance.....	4-23
4.12.2	Power Line Maintenance.....	4-23
4.12.3	Standard Operating Procedures.....	4-24
4.13	Other Permits and Approvals.....	4-30
4.14	Applicant Proposed Measures.....	4-30
4.15	Electric and Magnetic Fields Summary.....	4-32
4.16	Alternatives.....	4-33

5. Environmental Setting and Environmental Impacts	5-1
5.1 Aesthetics.....	5-1
5.1.1 Introduction.....	5-1
5.1.2 Setting.....	5-3
5.1.3 Environmental Impacts and Mitigation Measures.....	5-8
5.2 Agriculture and Forestry Resources.....	5-27
5.2.1 Setting.....	5-27
5.2.2 Environmental Impacts and Mitigation Measures.....	5-30
5.3 Air Quality.....	5-31
5.3.1 Setting.....	5-31
5.3.2 Environmental Impacts and Mitigation Measures.....	5-37
5.4 Biological Resources.....	5-41
5.4.1 Setting.....	5-41
5.4.2 Environmental Impacts and Mitigation Measures.....	5-60
5.5 Cultural and Paleontological Resources.....	5-80
5.5.1 Cultural and Paleontological Resources Setting.....	5-80
5.5.2 Environmental Impacts and Mitigation Measures.....	5-89
5.6 Geology and Soils.....	5-91
5.6.1 Setting.....	5-91
5.6.2 Environmental Impacts and Mitigation Measures.....	5-100
5.7 Greenhouse Gas Emissions.....	5-105
5.7.1 Setting.....	5-105
5.7.2 Environmental Impacts and Mitigation Measures.....	5-108
5.8 Hazards and Hazardous Materials.....	5-110
5.8.1 Setting.....	5-110
5.8.2 Environmental Impacts and Mitigation Measures.....	5-114
5.9 Hydrology and Water Quality.....	5-117
5.9.1 Setting.....	5-117
5.9.2 Environmental Impacts and Mitigation Measures.....	5-123
5.10 Land Use and Planning.....	5-130
5.10.1 Setting.....	5-130
5.10.2 Environmental Impacts and Mitigation Measures.....	5-134
5.11 Mineral Resources.....	5-136
5.11.1 Setting.....	5-136
5.11.2 Environmental Impacts and Mitigation Measures.....	5-137
5.12 Noise.....	5-138
5.12.1 Setting.....	5-138
5.12.2 Environmental Impacts and Mitigation Measures.....	5-141
5.13 Population and Housing.....	5-146
5.13.1 Setting.....	5-146
5.13.2 Environmental Impacts and Mitigation Measures.....	5-148
5.14 Public Services.....	5-149
5.14.1 Setting.....	5-149
5.14.2 Environmental Impacts and Mitigation Measures.....	5-151
5.15 Recreation.....	5-153
5.15.1 Setting.....	5-153
5.15.2 Environmental Impacts and Mitigation Measures.....	5-155

5.16	Transportation and Traffic.....	5-156
5.16.1	Setting.....	5-156
5.16.2	Environmental Impacts and Mitigation Measures.....	5-161
5.17	Tribal Cultural Resources.....	5-168
5.17.1	Setting.....	5-168
5.17.2	Environmental Impacts and Mitigation Measures.....	5-171
5.18	Utilities and Service Systems.....	5-173
5.18.1	Setting.....	5-173
5.18.2	Environmental Impacts and Mitigation Measures.....	5-178
5.19	Corona and Induced Current Effects.....	5-181
5.19.1	Environmental Setting.....	5-182
5.19.2	Environmental Impacts and Assessment.....	5-182
5.20	Mandatory Findings of Significance.....	5-184
6.	Mitigation Monitoring Plan.....	6-1
6.1	Minor Project Refinements.....	6-1
6.2	Dispute Resolution.....	6-1
7.	Response to Comments.....	7-1

Tables

Table 4-1	Distribution Relocation Summary.....	4-9
Table 4-2	Distribution System Structures.....	4-9
Table 4-3	Summary of Temporary Work Areas.....	4-10
Table 4-4	Standard Construction Equipment and Usage.....	4-18
Table 4-5	Proposed Construction Schedule.....	4-22
Table 4-6	Proposed Project Cut-And-Fill Requirements Summary (cubic yards).....	4-22
Table 4-7	Anticipated Permit, Approval, and Consultation Requirements.....	4-30
Table 4-8	Applicant Proposed Measures by Resource Area.....	4-31
Table 5.1-1	Visual Impact Significance Criteria.....	5-9
Table 5.3-1	Monthly Climate Data, Oceanside, California, 1953-2005.....	5-31
Table 5.3-2	National and California Ambient Air Quality Standards.....	5-33
Table 5.3-3	Attainment Status for San Diego Air Basin.....	5-33
Table 5.3-4	San Diego Air Basin Ambient Air Quality.....	5-34
Table 5.3-5	Air Quality Significance Thresholds.....	5-37
Table 5.3-6	Estimated Maximum Daily Construction Emissions.....	5-37
Table 5.4-1	Vegetation Communities and Anticipated Impacts in the PSA.....	5-45
Table 5.4-2	Special-Status Plant Species Documented within One Mile of the PSA.....	5-46
Table 5.4-3	Special-Status Wildlife Species Documented within One Mile of the PSA.....	5-49
Table 5.6-1	Significant Active and Potentially Active Faults within 50 miles of the Proposed Project.....	5-95
Table 5.7-1	2014 California Greenhouse Gas Emissions Inventory.....	5-105
Table 5.12-1	Typical Sound Levels Measured in the Environment and Industry.....	5-139
Table 5.13-1	Year 2011 Existing Conditions – Population, Housing, and Employment: City of Oceanside and San Diego County.....	5-146
Table 5.16-1	Existing Local Roadway Conditions.....	5-157
Table 5.16-2	Construction Traffic Volume Impacts on Local Roadways.....	5-162
Table 5.18-1	Utility Providers.....	5-173
Table 5.18-2	Landfill Capacities.....	5-175
Table 5.20-1	Planned and Current Projects in the Vicinity of the Proposed Project.....	5-185
Table 6-1	Mitigation Monitoring Plan.....	6-3

Figures

Figure 4-1	Project Regional Location.....	4-35
Figure 4-2	Project Site Location and Staging Yards.....	4-37
Figure 4-3	Existing Configuration of Substations.....	4-39
Figure 4-4	Ultimate Configuration of Substations.....	4-40
Figure 4-5	Initial Layout of Ocean Ranch Substation.....	4-41
Figure 4-6	Ultimate Layout of Ocean Ranch Substation.....	4-42
Figure 4-7	Low Profile Substation.....	4-43
Figure 4-8	Typical 69 kV Underground Vault.....	4-44
Figure 4-9	Typical 69 kV Underground Duct Bank.....	4-45
Figure 4-10	Typical 12 kV Underground Duct Bank.....	4-46
Figure 4-11	Typical 12 kV Underground Manhole.....	4-47
Figure 4-12	Typical Telecommunication Monopole.....	4-48
Figure 4-13	Typical Underground Duct Package.....	4-49
Figure 4-14	Kearny Construction and Operations Center.....	4-50
Figure 4-15	North Coast Construction and Operations Center.....	4-51
Figure 4-16	Northeast Construction and Operations Center.....	4-52
Figure 4-17	Typical Underground Construction Process within Roadways.....	4-53
Figure 5.1-1	Substation Viewshed.....	5-14
Figure 5.1-2	Existing Conditions Photographs.....	5-15
Figure 5.1-3	Viewpoint Locations and Orientation.....	5-18
Figure 5.1-4	Viewpoints Near Substation Site.....	5-19
Figure 5.1-5a	KOP 1: Existing View, Looking Northeast Across Avenida del Oro to Site.....	5-21
Figure 5.1-5b	KOP 1: Simulation, Looking Northeast Across Avenida del Oro to Site.....	5-22
Figure 5.1-6a	KOP 2: Existing View, Looking South From Rocky Point Road.....	5-23
Figure 5.1-6b	KOP 2: Simulation, Looking South From Rocky Point Road.....	5-24
Figure 5.1-7a	KOP 3: Existing Conditions, Looking Southeast Across Avenida del Oro to Site.....	5-25
Figure 5.1-7b	KOP 3: Simulation, Looking Southeast Across Avenida del Oro to Site.....	5-26
Figure 5.3-1	Windrose, Oceanside, CA, 1988-2010.....	5-32
Figure 5.4-1	Project Survey Area – Biological Resources.....	5-71
Figure 5.4-2a	Vegetation Communities.....	5-72
Figure 5.4-2b	Vegetation Communities.....	5-73
Figure 5.4-2c	Vegetation Communities.....	5-74
Figure 5.4-2d	Vegetation Communities.....	5-75
Figure 5.4-3	CNDDDB Sensitive Species within 1 Mile of the Project Survey Area.....	5-76
Figure 5.4-4	Critical Habitat within 5 Miles of the Project Survey Area.....	5-77
Figure 5.4-5	City of Oceanside Subarea Plan Gnatcatcher Corridor.....	5-78
Figure 5.4-6	City of Oceanside Subarea Plan Preserves.....	5-79
Figure 5.6-1	Geologic Map.....	5-103
Figure 5.6-2	Regional Active Faults and Historic Earthquakes.....	5-104
Figure 5.9-1	Pre-development Drainage.....	5-128
Figure 5.9-2	Post-development Drainage.....	5-129
Figure 5.16-1	Local Roadways.....	5-167

Appendices

Appendix A	References
Appendix B	List of Preparers
Appendix C	Landscape Concept Plan
Appendix D	Best Management Practices Manual
Appendix E	Geotechnical Siting Studies
Appendix F	Operation & Maintenance Wildland Fire Prevention Plan
Appendix G	Biological Technical Report
Appendix H	Additional Special-status Species
Appendix I	Preliminary Jurisdictional Delineation