

**Viejo System Project
Final Mitigated Negative Declaration
and Supporting Initial Study**

Table of Contents **Page**

Executive Summary

A. Mitigated Negative Declaration

B. Initial Study

B.1 Project Description

B.1.1	Project Title	B-1
B.1.2	Project Sponsor's Name and Address	B-1
B.1.3	Lead Agency Name and Address	B-1
B.1.4	Lead Agency Contact Person and Phone Number	B-1
B.1.5	Project Location	B-1
B.1.6	Surrounding Land Uses and Setting	B-1
B.1.7	General Plan Designation	B-2
B.1.8	Zoning	B-2
B.1.9	Description of Project	B-2
B.1.10	EMF Summary	B-26
B.1.11	Other Public Agencies Whose Approval is Required	B-28

B.2 Environmental Determination B-30

B.3 Environmental Analysis and Mitigation

B.3.1	Aesthetics	B-31
B.3.2	Agricultural Resources	B-67
B.3.3	Air Quality	B-69
B.3.4	Biological Resources	B-76
B.3.5	Cultural Resources	B-85
B.3.6	Geology and Soils	B-90
B.3.7	Hazards and Hazardous Materials	B-97
B.3.8	Hydrology and Water Quality	B-102
B.3.9	Land Use and Planning	B-106
B.3.10	Mineral Resources	B-109
B.3.11	Noise	B-111
B.3.12	Population and Housing	B-117
B.3.13	Public Services	B-119
B.3.14	Recreation	B-122
B.3.15	Transportation/Traffic	B-133
B.3.16	Utilities and Service Systems	B-139
B.3.17	Mandatory Findings of Significance	B-144

C. Mitigation Monitoring Plan

D. Responses to Comments

Viejo System Project Final Mitigated Negative Declaration and Supporting Initial Study

Appendices

1. References
2. List of Preparers and Reviewers
3. Electric and Magnetic Fields and Other Field-Related Concerns
4. Air Quality Calculations
5. SCE Standard Best Management Practices
6. Cumulative Projects List
7. Work Area Protection and Traffic Control Manual
8. Alternatives Comparison

List of Figures

1. Regional Vicinity Map.....	B-4
2. Proposed Substation Site and 66 kV Subtransmission Line Route.....	B-5
3. Santiago System Capacity and Peak Demand	B-8
4. Proposed Viejo Substation Site Plan	B-11
5. Towers and Poles Proposed for Viejo Substation.....	B-13
6. Existing 66 kV Tubular Steel Poles (TSP) and Proposed H-Frames.....	B-15
7. Proposed Transmission/Subtransmission Line Configuration and Proposed H-Frame Locations	B-17
8. Proposed Telecommunications Line Route	B-21
9. Magnetic Field Levels	B-28
10. Location of Key Viewpoints	B-45
11. Key Viewpoint 1 (Florence Joyner Olympiad Park) – Existing View	B-46
12. Key Viewpoint 1 (Florence Joyner Olympiad Park) – Simulation.....	B-47
13. Key Viewpoint 2 (Melinda Road) – Existing View	B-48
14. Key Viewpoint 2 (Melinda Road) – Simulation.....	B-49
15. Key Viewpoint 3 (Ponderosa) – Existing View	B-50
16. Key Viewpoint 3 (Ponderosa) – Simulation	B-51
17. Key Viewpoint 4 (Painted Trails) – Existing View.....	B-52
18. Key Viewpoint 4 (Painted Trails) – Simulation	B-53
19. Key Viewpoint 5 (Sweet Meadow) – Existing View	B-54
20. Key Viewpoint 5 (Sweet Meadow) – Simulation	B-55
21. Key Viewpoint 6 (Canyon Crest) – Existing View	B-56
22. Key Viewpoint 6 (Canyon Crest) – Simulation	B-57
23. Key Viewpoint 7 (Canyon Crest) – Existing View.....	B-58
24. Key Viewpoint 7 (Canyon Crest) – Simulation	B-59
25. Key Viewpoint 8 (Canyon Crest) – Existing View	B-60
26. Key Viewpoint 8 (Canyon Crest) – Simulation	B-61
27. Key Viewpoint 9 (Palmia) – Existing View	B-62
28. Key Viewpoint 9 (Palmia) – Simulation.....	B-63
29. Key Viewpoint 10 (Substation – El Toro Road) – Existing View	B-64
30. Key Viewpoint 10 (Substation – El Toro Road) – Simulation.....	B-65
31. Simulated View of Viejo Substation with Proposed Block Wall	B-66
32. Aliso Creek and San Juan Creek Watersheds	B-103
33. Recreational Areas Along the Transmission Corridor	B-123
8-1. Alternative 1B Overhead/Underground Subtransmission Line.....	8-19
8-2. Alternative 1C Underground Subtransmission Line.....	8-20
8-3. Monopole Simulation: Key Viewpoint 1	8-21
8-4. Monopole Simulation: Key Viewpoint 5	8-22