

TABLE OF CONTENTS

Topic	Page
EXECUTIVE SUMMARY	1
Background	1
Project Refinements.....	3
Project Objectives	4
Project Alternatives Discussion	4
Environmental Process	4
Summary of Impacts and Mitigation.....	5
Environmentally Superior Alternative	6
Permits and Authorization.....	6
CHAPTER 1. INTRODUCTION	1-1
1.1 PURPOSE OF THE SUPPLEMENTAL ENVIRONMENTAL IMPACT REPORT (EIR).....	1-1
1.1.1 Changes since the 2007 Final EIR, the 2007 Final EIR Addenda, and the 2011 Supplemental EIR No. 1	1-1
1.1.2 Statutory Requirements for a Supplemental EIR	1-3
1.1.3 Related Environmental Documents	1-3
1.2 THE CEQA ENVIRONMENTAL REVIEW PROCESS	1-3
1.3 SUPPLEMENTAL EIR ORGANIZATION.....	1-4
1.4 TECHNICAL STUDIES AND REPORTS USED IN THE SUPPLEMENTAL EIR	1-5
CHAPTER 2. PROJECT DESCRIPTION	2-1
2.1 INTRODUCTION AND PROJECT HISTORY	2-1
2.2 PROJECT OBJECTIVES	2-3
2.3 REGIONAL PROJECT LOCATION AND SETTING	2-3
2.4 DESCRIPTION OF THE PROJECT REFINEMENTS AND CONSTRUCTION ACTIVITY	2-3
2.4.1 Project Refinements	2-3
2.4.2 Construction Activity and Schedule	2-18
2.5 PERMITS AND AUTHORIZATION.....	2-20
CHAPTER 3. ENVIRONMENTAL EVALUATION	3.1-1
3.1 NOISE AND VIBRATION.....	3.1-1
3.1.1 Methodology and Definitions.....	3.1-1
3.1.2 Existing Conditions.....	3.1-3



TABLE OF CONTENTS

Topic	Page
3.1.3 Environmental Impacts	3.1-9
3.1.4 Mitigation Measures	3.1-15
3.1.5 Impact Results with Mitigation	3.1-15
3.2 CULTURAL RESOURCES.....	3.2-1
3.2.1 Methodology and Definitions.....	3.2-1
3.2.2 Existing Conditions.....	3.2-1
3.2.3 Environmental Impacts	3.2-3
3.2.4 Mitigation Measure.....	3.2-6
3.2.5 Impact Results with Mitigation	3.2-7
3.3 GEOLOGICAL AND HAZARDOUS MATERIALS.....	3.3-1
3.3.1 Methodology and Definitions.....	3.3-1
3.3.2 Existing Conditions.....	3.3-1
3.3.3 Environmental Impacts	3.3-2
3.3.4 Mitigation Measures	3.3-5
3.3.5 Impact Results with Mitigation	3.3-5
3.4 TRAFFIC AND TRANSPORTATION	3.4-1
3.4.1 Existing Condition	3.4-1
3.4.2 Environmental Impacts	3.4-1
3.4.3 Mitigation Measures	3.4-4
3.4.4 Impact Results with Mitigation	3.4-4
3.5 CONSTRUCTION-RELATED IMPACTS	3.5-1
3.5.1 Michillinda TPSS (TPSS No. 0) and Soldano TPSS (TPSS No. 8A) Units ..	3.5-1
3.5.2 Duarte Station Parking Facility.....	3.5-1
3.5.3 Single-family Residence in the City of Azusa.....	3.5-1
CHAPTER 4. ALTERNATIVES	4-1
4.1 INTRODUCTION	4-1
4.2 ALTERNATIVES OF THE PROPOSED PROJECT.....	4-1
4.2.1 History of the Alternative Analysis Process	4-1
4.2.2 Project Refinements Not Considered in Detail	4-2
4.2.3 Project Refinement Alternatives Considered in Detail.....	4-2
4.3 CONSTRUCTION SCENARIOS.....	4-4
4.3.1 No-Action Alternative	4-4
4.3.2 Build Alternative.....	4-4
4.4 ENVIRONMENTALLY SUPERIOR ALTERNATIVE.....	4-4
CHAPTER 5. OTHER IMPACT CONSIDERATIONS	5-1
5.1 CUMULATIVE IMPACTS	5-1
5.1.1 Noise and Vibration.....	5-2



TABLE OF CONTENTS

Topic	Page
5.1.2 Cultural Resources.....	5-3
5.1.3 Geological and Hazardous Materials.....	5-3
5.1.4 Traffic and Transportation.....	5-4
5.2 DISCUSSION OF SIGNIFICANT IMPACTS.....	5-4
5.2.1 Less-than-Significant Impacts	5-4
5.2.2 Significant Environmental Impacts	5-4
5.2.3 Unavoidable Significant Environmental Impacts.....	5-4
5.3 MANDATORY FINDINGS OF SIGNIFICANCE	5-4
5.3.1 Degradation of the Environment	5-4
CHAPTER 6. LIST OF PREPARERS.....	6-1
6.1 LIST OF PREPARERS	6-1
6.1.1 Los Angeles to Pasadena Metro Blue Line Construction Authority/Metro Gold Line Foothill Extension Construction Authority.....	6-1
6.1.2 Jacobs	6-1
6.1.3 ATS Consulting	6-1
6.1.4 CRM Tech	6-1
6.1.5 Earth Systems Southern California.....	6-2
6.1.6 KOA.....	6-2
CHAPTER 7. BIBLIOGRAPHY AND OTHER REFERENCES.....	7-1
CHAPTER 8. APPENDICES	
APPENDIX A: NOISE AND VIBRATION ANALYSIS	
APPENDIX B: CULTURAL RESOURCES ANALYSIS	
APPENDIX C: GEOLOGICAL AND HAZARDOUS MATERIALS ANALYSIS	
APPENDIX D: TRAFFIC AND TRANSPORTATION ANALYSIS	
APPENDIX E: METRO TRACTION POWER LOAD-FLOW STUDY REPORT	



LIST OF FIGURES

Topic	Page
Figure 2-1: Project Location.....	2-4
Figure 2-2: Overview of the Project Refinements	2-5
Figure 2-3: Typical TPSS Unit and Configuration.....	2-7
Figure 2-4: Michillinda TPSS (TPSS No. 0).....	2-9
Figure 2-5: Soldano TPSS (TPSS No. 8A)	2-11
Figure 2-6: Duarte Station Parking Facility (Alternative A)	2-13
Figure 2-7: Duarte Station Parking Facility (Alternative B).....	2-14
Figure 2-8: Eliminating Sound Barrier.....	2-16
Figure 2-9: Single-family Residence (Vibration Mitigation).....	2-17
Figure 3.1-1: Typical Indoor and Outdoor Noise Levels	3.1-2
Figure 3.1-2: Measurement Location at 3855 Arboleda Avenue	3.1-4
Figure 3.1-3: Measurement Location at 34 Quigley Avenue.....	3.1-5
Figure 3.1-4: Measurement Location at Soldano Avenue and 9th Street	3.1-6
Figure 3.1-5: Measurement Location at 1609 Denning Avenue	3.1-7
Figure 3.1-6: Location of Duarte Eastbound Sound Wall 1.....	3.1-8
Figure 3.1-7: Measurement Location at 1802 Citrus View Avenue.....	3.1-9
Figure 3.1-8: FTA Noise Thresholds	3.1-10



LIST OF TABLES

Topic	Page
Table ES-1: Permitting Requirements	6
Table 2-1: Traction Power Substation Supply (TPSS) Unit Identification.....	2-6
Table 2-2: Permitting Requirements	2-20
Table 3.1-1: Noise Threshold for the Michillinda TPSS (TPSS No. 0) and Soldano TPSS (TPSS No. 8A) Units	3.1-11
Table 3.1-2: Applicable City Noise Ordinance Thresholds.....	3.1-11
Table 3.1-3: Metro Noise Design Criteria for Transit Ancillary Facilities.....	3.1-12
Table 3.1-4: Predicted TPSS Noise Levels (L_{dn})	3.1-12
Table 3.1-5: Predicted TPSS Noise Levels (L_{eq}).....	3.1-12
Table 3.1-6: Noise Prediction for the Duarte Eastbound Group 1	3.1-14
Table 3.1-7: Vibration Prediction for Single-family Residence	3.1-14
Table 3.1-8: Summary of Vibration Prediction	3.1-15
Table 3.4-1: Trip Generation Parking Lot Use.....	3.4-3
Table 3.4-2: Option 1 Future (2030) Buildout Level of Service (LOS)	3.4-3
Table 3.4-3: Option 1 Future (2030) Buildout Level of Service (LOS)	3.4-4

