

APPENDIX 3.5-A

Applicability of Laws, Regulations, and Standards for EMI/EMF

Table 3.5-A1
 Applicability of Laws, Regulations, and Design Standards for Electromagnetic Interference/Electromagnetic Fields (EMI/EMF)

Impact Category	Project Features	Applicable Laws and Regulations	Applicable Design Standards
Construction Impacts			
Licensed radio communications between construction vehicles	Alignment, including access track to Castle Commerce Center heavy maintenance facility (HMF)	Federal Communication Commission (FCC) regulations for the authorized use of two-way radio communications (47 Code of Federal Regulations [CFR] 01 et seq.)	
Project Impacts			
EMI interference with other FCC licensed broadcasters	Alignment, including access track to Castle Commerce Center HMF	FCC regulations for the prevention of interference with authorized broadcast radio communications (47 CFR 01 et seq.)	
EMF exposure to passengers on high-speed train (HST) and in stations	Within the HST right-of-way		International Commission on Non-Ionizing Radiation Protection guidelines on allowable electric and magnetic field exposure to the public
EMF exposure to HST employees	Within the HST right-of-way		International Commission on Non-Ionizing Radiation Protection Guidelines for electric and magnetic field occupational exposure to HST employees
EMF exposure to HST employees who have implanted medical devices	Within the HST right-of-way		American Conference of Governmental Industrial Hygienists Sub-radiofrequency (30 kilohertz [kHz] and below) magnetic fields
EMF exposure to the public outside of the alignment	Outside the HST right-of-way		International Commission on Non Ionizing Radiation Protection guidelines on allowable electric and magnetic field exposure to the public
EMF interference with track signaling systems on adjoining railroads	Alignment, including access track to Castle Commerce Center HMF	Federal Railroad Administration regulations (49 CFR 234, 236, 238 et seq)	UPRR and BNSF design standards for railway signaling systems
Electromagnetic compatibility with businesses using sensitive equipment outside of alignment	Alignment, including access track to Castle Commerce Center HMF		HST Electromagnetic Compatibility Program Plan

Impact Category	Project Features	Applicable Laws and Regulations	Applicable Design Standards
HST alignment's proximity to schools and high-voltage power transmission lines that supply electricity to the HST	Alignment, including access track to Castle Commerce Center HMF	California Department of Education, California Code of Regulations, Title 5, Section 14010(c).	