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**Section 1**  
**BACKGROUND AND PURPOSE**

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The environmental conditions in the San Francisco Bay Area require that certain mitigating measures be undertaken. As part of a wide ranging program, the Peninsula Corridor Joint Powers Board (PCJPB) has determined to electrify the rail line utilized by its commuter rail operations between San Francisco and Gilroy. This particular part of the preliminary engineering phase addresses electrically powered rolling stock equipment, explores the availability of rolling stock equipment technologies and assesses its technical and economic performance, as compared to the existing diesel-electric powered fleet.