



Safety and Security Certification (SSCP) Technical Memorandum

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RE: General Planning Consultant Services - Dallas Area Rapid Transit (DART)
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1. SSCP SCOPE

Ultimate responsibility for the development and operation of a safe and secure system rests with the transit agency's executive leadership. The transit agency provides direction and guidance for the Safety and Security Certification (SSC) plan. The SSC plan identifies the process by which the Cotton Belt Corridor project will be certified as safe for revenue service. Safety and Security Certification process verifies that the system, as designed and installed, meets or exceeds statutory requirements for safe, secure operations, and maintenance. The SSC plan is a living document and subsequently will be updated as the project progresses through successive stages of design, construction, and testing.

2. INTRODUCTION

During the project phase implementation of the SSC Plan will be delegated to the project management team, which verifies performance of all certification tasks. A staged approach will be utilized to support project implementation which will require the management of many different participants with varying levels of responsibility, spanning the entire project phase. In this dynamic environment, the SSCP provides a consistent safety and security focus for all safety related activities throughout the project lifecycle.

2.1. Project Life Cycle Phases:

- Planning
- Preliminary Engineering
- Final Design
- Construction
- Integrated Testing
- Pre-revenue Operations
- Revenue Operations



3. Methodology

- a. The SSCP manages hazards and vulnerabilities throughout the project lifecycle. This is accomplished utilizing a systematic approach to risk management. The Safety and Security Certification Plan verifies application of this systematic process insuring that hazards and vulnerabilities are translated into risks. System risks are then analyzed, assessed, prioritized, and resolved, accepted, or tracked.
- b. The Safety and Security Certification Plan is a sub-component of The System Safety Program Plan (SSPP). The purpose of the SSCP is to ensure project compliance with applicable regulatory codes, such as 49 CFR Part 633 (Project Management Oversight) and 49 CFR Part 659 (Rail Fixed Guideway Systems; State Safety Oversight). The SSCP ensures that FTA funded transit projects comply with Safety and Security Standards requiring transit agencies to identify operating hazards, security vulnerabilities, and to ensure that identified hazards, and security vulnerabilities are evaluated and properly controlled or mitigated for prior to the commencement of passenger service. Additionally, the SSCP verifies that all safety and security critical project elements are certified as compliance with identified safety and security requirements. Safety and Security Certification processes are implemented throughout the entire project life-cycle consisting of: design, construction, testing, and start-up phases.
- c. The Safety and Security Certification Plan ensures that all newly installed or modified systems and sub-systems are operationally safe and secure for customers, employees, emergency personnel and the general public, prior to entry of systems or sub-systems into passenger service. The SSCP provides systematic methodologies which is utilized to document, and verify that all safety-critical security systems, subsystems, procedures and training programs have been reviewed to ensure compliance with applicable transit safety and security requirements for each applicable Systems Element. The System Safety and Security Certification Plan verify that the project is in compliance with regulatory codes, standards, and regulations. The end product will be a formal document certifying that at the time of inspection the new start facilities, equipment, and vehicles are safe to inter revenue operations.
- d. The ultimate goal of the SSC Plan is to ensure that the project begins revenue service on the Cotton Belt Corridor with:
 - A level of safety and security equivalent to the existing systems across the United States
 - The elimination or control of hazards, to the extent possible, as they affect passengers, employees, and users of shared right-of-way, facilities, property, and equipment
 - A high level of public confidence in the safety and security of the service Compliance with all safety and security requirements established for Regional Rail
- e. The following steps typically comprise the SSCP methodology:
 - Identify Certifiable Elements



- Develop Safety and Security Design Criteria
- Develop and Complete Design Criteria Conformance Checklist
- Perform Construction Specification Conformance
- Identify Additional Safety and Security Test Requirements
- Perform Testing and Validation in Support of SSCP
- Manage Integrated Tests for SSC Program
- Manage open SSCP Items
- Verify Operational Readiness
- Conduct Final Determination of Project Readiness and Issue Safety and Security Certificate of Certification

4. Document Limitations

4.1 Document provides general guidance.

4.2 Document provides a baseline certification item checklist

4.3 Vehicle is prototype certification TBD

5. Applicable Regulatory Standards

5.1. 49 C.F.R. PART 633 Subpart C— Project Management Plan (PMP)

5.2. 49 C.F.R. PART 659 (Rail Fixed Guideway Systems; State Safety Oversight)