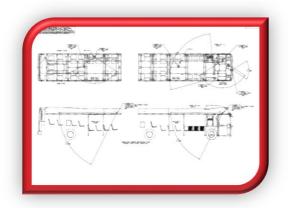
SamTrans Bus Maintenance Department







Dave Harbour
Director, Bus Maintenance



The Bus Maintenance Department

Bus Maintenance



Intelligent Transit Systems (ITS)



Operations Training





Mission Statement

The mission of SamTrans Bus Maintenance Department is to provide the District's customers with safe, reliable, innovative, and cost-effective mobility solutions that also focus on improving the environment through utilization of the latest clean-air and zero-emissions technology. Train, qualify, and maintain proficiency of Bus

Operators and Maintenance Personnel in Support of the

District's operational needs.



SamTrans Fleet

- 312 Heavy Duty Transit Buses
 - Clean Diesel, Diesel-Electric Hybrid, and 100% Battery Electric
- 70 RediWheels Cutaways and Minivans
 - Gas
- 76 Non-Revenue Operations Support Vehicles
 - Gas, Hybrid-Electric, and 100% Battery Electric



Bus Maintenance Overview

- Responsible for achieving the District's mission of providing safe, reliable, clean, environmentally conscious, and cost-effective transportation.
- Provides the highest-level of maintenance expertise and knowledge to ensure that all fleets meet or exceed regulatory and performance standards.
- Provides materials management and inventory control for Bus and Facilities Maintenance and ITS, including parts and component purchasing, and warranty recovery.



Intelligent Transit Systems (ITS) Overview

- Provides direct support to onboard electronics systems such as:
 - Fare collection systems
 - Onboard video systems
 - Computer aided dispatch (CAD) and automatic vehicle locator (AVL)
 - Cellular wireless systems.
- Researches and recommends new technology to enhance passenger experience, ease of use, and safety.
- Supports Caltrain's' ticket vending machines (TVM)



Operations Training Overview

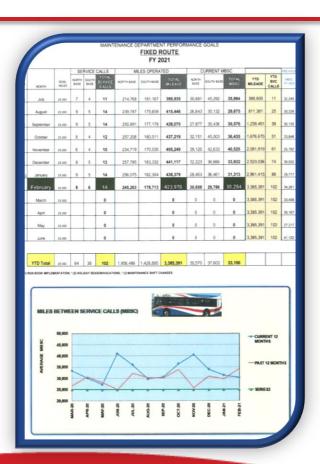
- Provides all initial qualification and commercial driver's license (CDL) training to all District Operators and Maintenance personnel.
- Insures the workforce maintains the highest level of safety and proficiency.
- Provides subject matter expertise in support of the Transportation and Bus Maintenance Departments.
- FY22 Goal to hire and train 109 new Bus Operators.



Measuring Success

Key Performance Metrics:

- Miles Between Service Calls (MBSC)
- National fixed route average: 9,500 miles
- Samtrans' Goal: 25,000
- FY 2021 combined base averages:
 - ➤ Fixed Route 33,190 mbsc
 - > Redi-Wheels 31,619 mbsc





Measuring Success (Continued)

- Buses Out of Service Due to Parts Availability
 - SamTrans Goal: 2% of fleet
 - > FY2021 average: 0.36% per month
- Annual Stores Inventory Audit
- Miles Between Preventable Accidents
- Base Inspections
- Regulatory Audits and Inspections

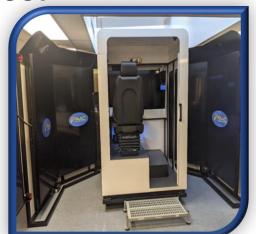




Recent Projects

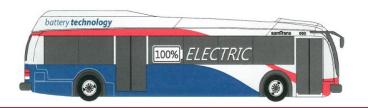


- Procurement of fifty five 60' New Flyer Articulated Buses
- Procurement of first two 40' Battery electric buses
- Procurement of FAAC Bus Simulator
- Initial passenger access to cellular Wi-Fi rollout on the FCX fleet
- Wi-Fi connectivity upgrades at both Maintenance bases
- Replacement of 13 Cutaway RediWheels coaches
- Replacement of 14 RediWheels minivans
- Replacement of 14 non-revenue support vehicles which included the District's first zero-emissions vehicles





Current Projects



- Acceptance of 8 Battery Electric Buses
- Needs assessment and analysis for the replacement of the Computerized Maintenance Management System (SPEAR).
- Procurement of seven 40' Battery Electric Bus expansion fleet for upcoming 101 express lane service.
- Retrofit of entire 312 heavy duty bus fleet with cellular Wi-Fi capabilities.





Future Projects

- Full Transition to 100% zero-emissions fleets
- Replacement of the Computerized Maintenance Management System (SPEAR)
- Real-time telematics and onboard systems monitoring





Moving us Forward

- Vision:
 - Fully zero-emissions fleets
 - Upgrades to customer comfort and rider experience
 - Transition Bus Maintenance business processes to a current Enterprise Asset Management (EAM) system
 - Vehicle onboard diagnostics (Telematics)
- Planning:
 - Evaluating available technology with current and future operational needs
 - Keeping up with the industry
 - Skill-set gap assessment
 - Training and education
 - Collaborative Teamwork



Questions

