



Public Transportation Agency Safety Plan

Date: 12/29/2023

Version 3.0



# Safety Management System Policy Statement

AC Transit is committed to plan and deliver bus service in ways that promote the health and safety of our customers, our employees, contractors, and the general public. This policy outlines the District's safety commitment, consistent with current federal regulations (49 U.S. Code § 5329) and develops a Public Transportation Agency Safety Plan (PTASP) based on the Safety Management Systems approach.



AC Transit is committed to the highest practical level of safety and security standards and practices in the public transit industry and this Public Transportation Agency Safety Plan. This commitment aligns with AC Transit's Strategic Plan and is consistent with the Safety Management Systems four functional components:

> Safety Policy System Risk Management Safety Assurance Safety Promotion



AC Transit management is responsible for maintaining a coordinated safety system to identify and prevent unsafe acts and conditions that present a potential danger or threat to public safety. Executive and management staff have responsibility for maintaining and implementing the PTASP and complying with the policies, procedures, and standards included in this document. All departments, personnel, and contract service operators are charged with the responsibility of implementing and adhering to this plan. Any violation of safety and security practices is subject to appropriate administrative action. Management is ultimately responsible for the oversight, evaluation, implementation, and compliance with the plan while maintaining a safe and secure system.

Each employee shall be responsible for performing his or her duties in a safe manner following the procedures as set forth in the Public Transit Agency Safety Plan. It shall be the duty of each AC Transit employee to cooperate fully and provide any information that is requested during any investigation or review that may be undertaken by the District, right-of-way agencies, the Federal Transit Administration, or any other public which may have concern regarding the safety of operations within the AC Transit.

ATU Local 192 President General Manager

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aTrina Meredith

## **VERSION CONTROL**

#### Version Number and Updates Version **Status Change** Reason for Change Date Issued Number .5 N/A **Document Development** 12/5/2018 1.0 Approved Final Safety Management System Compliance 5/13/2020 2.0 Approved Revision Bipartisan Infrastructure 12/30/22 Annual review of the PTASP 3.0 Approved Revision 12/29/23

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### TRANSIT AGENCY INFORMATION

#### Overview

The Alameda-Contra Costa Transit District (AC Transit) is the largest public bus-only transit agency in California. Based in the San Francisco Bay Area's East Bay, and headquartered in Oakland, AC Transit formed in 1960, assuming the storied transit routes of the Key System and its predecessors, which over the previous 100 years, carried passengers via horse-drawn rail streetcars, electric streetcars, ferries, and buses. AC Transit has an established commitment to preserving and improving the quality and quantity of transit service for 1.5 million East Bay passengers that populate our 364 square mile service area, which includes Alameda and Contra Costa counties' 13 cities and adjacent unincorporated areas of the East Bay.

AC Transit is an industry leader at providing public transit solutions that connects the East Bay communities with regional destinations including 16 other public and private bus systems, 25 BART stations, 6 Amtrak stations and 5 ferry terminals. The District uses its Strategic Plan to concentrate time and resources on activities that are of primary focus. Elements of the Strategic Plan consist of: Core Values, Vision and Mission Statements, Goals and Initiatives to organize the direction of the District's work efforts.

		AC Trans	sit Core Val	ues		
Safety	Service	Environmental Sustainability	Equity	Innovation	Integrity	Trust

#### **Vision Statement:**

AC Transit is valued as a leader that helps the Bay Area thrive by connecting East Bay communities to each other and to regional destinations.

#### Mission Statements:

We deliver safe, reliable, sustainable transit service that responds to the needs of our customers and communities.

#### **District Goals**

- 1. Safe and Secure Operations
- 2. Convenient and Reliable Service
- 3. Financial Stability and Resiliency
- 4. High-Performing Workforce

- 5. Strong Public and Policymaker Support
- 6. Environmental Improvement
- 7. Prioritize Diversity, Equity, Inclusion, & Accessibility

### Purpose

AC Transit operations are dependent upon the proficiency and well-being of its employees and maximizing its capital resources. To ensure preservation and safety of these resources, AC Transit adopted a comprehensive safety management system, with system safety as its foundation, as the model for safety management and continuous improvement in safety performance.

AC Transit's Public Transportation Agency Safety Plan (PTASP) serves as a guideline in the establishment of technical and managerial safety strategies for the identification, assessment, and control of safety risks to AC Transit customers, employees, contractors, and the general public who may come into contact with the system. The plan is updated and posted to AC Transits website to demonstrate the following:

- States the District's commitment and philosophy to actively sustain safe transit operations.
- Establishes and manages safety activities intended to minimize risk and loss of District resources, and to maximize the safety of our customers, our employees, contractors and the general public.
- Integrates the safety function throughout the District's organizational structure, from the General Manager to managerial staff, to front-line employees.
- Defines organizational safety responsibilities and accountabilities.
- Provides for the documentation and verification of safety activities.
- Evaluates safety activities for continued improvement.

System safety is defined as the District-wide coordinated effort of all divisions to apply operating, technical, and risk management techniques and principles to conserve life and property; prevent and reduce mishaps or incidents, and the effects which result; and to maintain a safe and healthful work environment.

The PTASP applies to all AC Transit operations; including bus, demand-transit, and paratransit; all supporting divisions; and to all activities, which involve the design, construction, operation, and maintenance of the transit system, including system expansions. Each AC Transit division and department is charged with the responsibility for the implementation and success of the plan.

## Plan Goals and Objectives

#### Goal

The safety goal is to design, construct, test, and operate a transportation system that attains an optimum level of safety through the effective management of safety risks. This goal is reflected in the planning, design, construction, operation, and maintenance phases. District staff are directed toward achieving this goal within the District's strategic goals and constraints.

Achievement of the goal is accomplished, in part, through the application of a formal system of analytical techniques and methods for the identification, analysis, evaluation, and resolution of safety risks.

### **Primary Objectives**

The primary objectives of the PTASP are to achieve a level of safety performance that meets or exceeds the operating experience of similar bus transit systems in the United States through:

- Analyzing employee and passenger injuries
- Using industry standards for the identification, assessment, evaluation, and mitigation of hazards that may impact customer and employee safety and those that may be affected by bus operations.
- Incorporating safety, fire protection, emergency management, and cybersecurity measures into design criteria and specification development and in all transit system designs
- Analyzing vehicle collisions, mishaps, and other incidents
- Training AC Transit personnel in safety related programs and ensure that safety certifications are up to date and maintained.
- Complying with CAL-OSHA rules, local codes, and federal, state, and local environmental regulations
- Increasing and strengthening community engagement in the safety of the transit system by involving and educating community organizations and schools in bus safety
- Promoting transit safety through campaigns, promotional contests, and other activities
- Improve planning and projections for fiscal support needs by tracing and analyzing historical data.
- Coordinating and communicating safety risks with jurisdictional partners and the Metropolitan Transportation Commission (MTC)

### Plan Integration and Lines of Authority

The PTASP responsibilities at each organizational level are outlined as follows:

<u>General Manager</u> – is the accountable executive and is vested with the primary responsibility for the activities of the District and overall safety performance. The General Manager has designated the Safety Management Systems Advisory Committee with the responsibility for developing, implementing, evaluating and maintaining the District PTASP.

<u>Chief Officers and Executive Directors</u> - are responsible for upholding and promoting safety policies, developing safety performance goals, and for holding department directors and managers accountable for the safety performance within their respective divisions/departments.

<u>Department Directors and Managers</u> - are directly accountable and responsible for implementation and evaluation of safety performance within their functional area. This responsibility includes determining and implementing countermeasures required to counteract safety risks and problems that negatively impact AC Transit's safety performance.

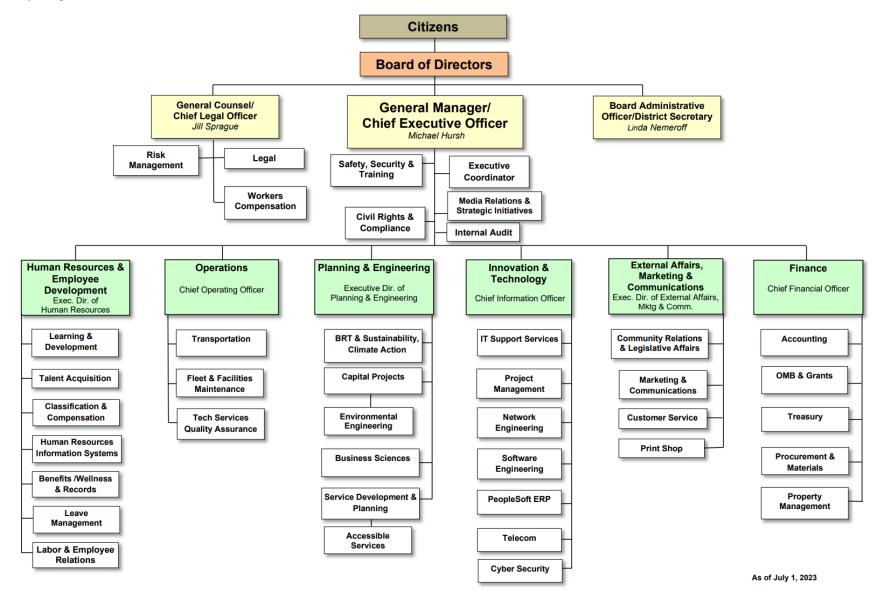
<u>Supervisors and Lead Staff</u> - Supervisors and Lead staff are accountable and responsible for the implementation of the PTASP including safety performance of all personnel and equipment under their supervision, developing and maintaining control measures, and for reporting all mishaps and incidents in accordance with the PTASP.

<u>District Personnel</u> - all personnel are responsible for performing their work safely, following procedures and rules, calling attention to circumstances that may impact safety performance, and for reporting near miss(es), and incidents to their Supervisor, in accordance with established requirements for the protection of themselves, co-workers, customers, facilities, and equipment.

#### District Profile

Transit Agency Name	Alameda Contra-Costa Transit District
Transit Agency Address	1600 Franklin Street, Oakland, Ca. 94612
Name and Title of Accountable Executive	Michael Hursh, General Manager
Chief Safety Officer	Marla Lee Blagg, Director of Safety, Security & Training
Mode(s) of Service Covered by This Plan	Motor Bus, Commuter Bus, Bus Rapid Transit, Demand Response
List All FTA Funding Types	5307, 5309, 5339
	Motor Bus – Direct Operated (MB-DO)
Mode(s) of Service Provided	Commuter Bus – Direct Operated (CB –DO)
by the Transit Agency (Directly operated or contracted	Motor Bus – Purchased Transportation (MB-PT)
service)	Demand Response – Direct Operated (DR-DO)
	Bus Rapid Transit – (RB-DO)

### **Agency Organization**



### Safety Management System Advisory Committee

The Safety Management System Advisory Committee was established to manage resource changes that manage safety activities and support the strategic goal of safe and secure operations. Through various complex processes that involve planning, communication, and implementation strategies, the committee involves key stakeholders to receive feedback on current and evolving circumstances. This offers flexibility and adaptability to the Safety Management System that includes leadership discussions using employee involvement.

#### SMS Advisory Committee Members

Department	Title	Resource
	Director of Safety, Security & Training	Marla Lee Blagg
Safaty	Safety Manager	Vacant
Safety	Protective Services Manager	Vacant
	Safety Administrator	Brian Muerle
	Chief Operating Officer	Salvador Llamas
Operations	Director of Maintenance	Cecil Blandon
Operations	Director of Transportation	Dwain Crawley
	Training and Education Manager	Michael Flocchini
	Chief Financial Officer	Chris Andrichak
Finance	Director of Management & Budget	Richard Oslund
	Director of Procurement and Materials	Fred Walls
Planning &	Executive Director of Planning and Engineering	Ramakrishna Pochiraju
Engineering	Director of Business Sciences	William Tonis
Innovation & Technology	Chief Information Officer	Ahsan Baig
External Affairs	Executive Dir. of External Affairs, Marketing & Com.	Beverly Greene
External Arrairs	Director of Legislative Affairs & Community Relations	Claudia Burgos
Risk Management	Management Claims and Liability Manager	
Civil Rights & Compliance	Director of Compliance	Lynette Little
Human Resources	Executive Director of Human Resources	Sebron Flenaugh III

## PLAN DEVELOPMENT, APPROVAL, AND UPDATES

### **Development and Approval**

AC Transit's Safety Management Systems (SMS) Advisory Committee is empowered and authorized by the General Manger to develop, implement, and administer the PTASP to meet the Federal requirements of 49 CFR Part 673. Appendix 1 provides the FTA requirements matrix and mapping to the PTASP elements. The District's General Manager shall submit to the AC Transit District Board the Public Transportation Agency Plan for approval.

### Certification of Compliance

Name of Entity That Drafted This Plan	Alameda Contra-Costa Transit District (AC Transit)			
Signature by the	Signature of Accountable Executive	Date of Signature		
Accountable Executive	Micheal Hursh	12/29/2023		
Approval by the Board	Name of Individual/Entity That Approved This Plan	Date of Approval		
of Directors or an Equivalent Authority	AC Transit Board of Directors	5/13/2020		
Equivalent Authority	Board Document Staff Report 20-151			
Certification of	Name of Individual/Entity That Certified This Plan	Date of Certification		
Compliance	Safety Management System Advisory Committee	5/13/2020		
	Board Document Staff Report 20-151			

### Plan Review and Management of Change

The Safety Management Systems (SMS) Advisory Committee is responsible for reviewing the PTASP annually to ensure that it remains current and effective. The annual review of the plan will be conducted as part of an internal review starting at the fiscal mid-year and ending the same fiscal year. The focus of the review is to:

- Evaluate current safety tasks and initiatives for appropriateness.
- Refine and improve task descriptions and activities.
- Identify new tasks and initiatives, which may be required.
- Define organizational responsibility for accomplishing safety related tasks.
- Incorporate organizational, operational, or legislative changes.

Changes in the transit system operational configuration; major system modification; management organization; changes to processes that affect safety, compliance with new or revised FTA regulations, the environment in which the transit system operates; safety policies, goals, or objectives; or regulatory requirements may require revision of the PTASP and/or its implementation. Revisions, if necessary, are coordinated by the Safety Department and reviewed led by the SMS Advisory Committee and approved by the General Manager and documented under Version Control.

### SAFETY PERFORMANCE TARGETS

The District has established safety performance targets that contain specific numerical targets based on the safety performance measures established by FTA in the National Public Transportation Safety Plan. The District has adopted FTA's four initial safety performance measures: (1) Fatalities, (2) Injuries, (3) Safety Events, and (4) System Reliability.

The District has coordinated with the Metropolitan Transportation Commission (Metropolitan Planning Organization) to the maximum extent practicable to assist with the selection of the safety performance targets. At a minimum, FTA requires each transit agency to make its safety performance targets available to the State and Metropolitan Planning Organization.

### Safety Performance Measures

Specify performance targets based on the safety performance measures established under the National Public Transportation Safety Plan.

	Fat	talities	lnj	uries	Safet	y Events	Reliability
Mode of Transit Service	Total	Rate/ 100K	Total	Rate/ 100K	Total	Rate/ 100K	Mean Between Failures
Bus	0	0.000	189	0.938	175	0.869	5,900

## **Target Setting Coordination**

AC Transit coordinates with the Metropolitan Transportation Commission in the selection of the Districts safety performance targets. The following table identifies the State representative and transmission dates with the Metropolitan Planning Organization.

Targets Transmitted to the	Metropolitan Planning Organization Name	Date Targets Transmitted
Metropolitan Planning Organization	Metropolitan Transportation Commission	12/30/22

### SAFFTY MANAGEMENT POLICY

AC Transit's Board Policies and Administrative Regulations have been developed to assist the Board of Directors, Board Officers and employees in carrying out their respective roles and functions and to properly govern, manage and guide the District's business activities. Other individuals or groups specifically referenced shall also comply with District policies and regulations.

#### **Board Governance**

### **Board Policies and Administrative Regulations**

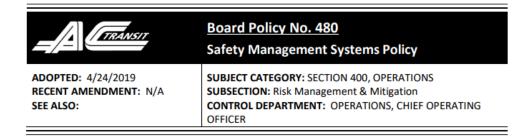
- Governance & Administration
- · Human Resources
- Finance
- Operations
- Planning & Service Development
- Legal Matters
- Conflict of Interest and Ethics

Regularly agenized Staff Reports are scheduled for the Board of Directors on a monthly, Bi-Monthly, quarterly, and annual basis. Staff Reports provide detailed information to the Board of Directors on various topics related to Safety Management Systems by the following departments Operations, Planning, Human Resources, Finance and Audit, External Affairs, and Compliance.

### Safety Management System Policy

AC Transit is committed to plan and deliver bus service in ways that promote the health and safety of our customers, our employees, contractors, and the general public; and sets the direction for developing a Public Transportation Agency Safety Plan (PTASP) based on the Safety Management Systems approach. AC Transit Public Transportation Agency Safety Plan includes the processes and procedures necessary for implementing Safety Management Systems and processes for safety risk management, safety assurance and safety promotion. Safety policies and practices are distributed via talk topics to department managers to give to their employees. Transportation and service bulletins are distributed via email to management to give employees to post on bulletin boards for all employees to read. AC Transit's Board policy No. 480 Safety Management Systems Policy is located under the Governance Risk Management & Mitigation section.

SMS Board Policy 480



### **Employee Safety Reporting Program**

The District and its respective bargaining units have provisions to protect employees when reporting safety matters. Employees can report unhealthy/unsafe working conditions by submitting a report form to management and the safety department. The form is in both hard copy and electronic form and is accessible to all employees. When an employee perceives there is a hazardous condition, they fill out the form and turn into management or anonymously to the safety department for a request for a safety assessment. This is part of the Safety Management Policy and Safety Risk Management components of the PTASP.

Other opportunities to report safety concerns are through division safety committees. The Safety staff facilitate site specific Safety Committees that meet monthly. Committee members represented by District staff and Union representatives discuss safety and security matters of mutual interest and concern. The Safety Committee jointly identifies safety issues or conditions to be reviewed and prioritized for corrective action(s) This is the Safety Risk Management process of PTASP. The Safety Department will provide technical assistance and/or act as subject matter expert utilizing risk ranking or other safety management systems tools to measure, monitor and evaluate the corrective actions as part of the PTASP assurance process.

Injury and/or accidents are reported by an employee or supervisor when they occur. Injuries are reviewed and followed up by management by filling out an investigation report Documents are reviewed and analyzed by the Accident Reduction Committee. On road situations can be reported directly to OCC by the operator and addressed accordingly. Defect cards are provided to operators and filled out daily by every operator. The cards are used to identify safety issues found on the bus for the maintenance department to address.

### SAFFTY RISK MANAGEMENT

### Safety Hazard Identification

AC Transit employs a variety of strategies to identify, assess, and resolve system safety risks. The programs in place are Unhealthy/Unsafe Work Conditions form, Division Safety Committees, Accident and Injury Reporting and OCC radio communications to report real or perceived issues and incidents. The specific strategy employed is dependent on the specific hazard and what aspect of the District's operation might be impacted by the hazard.

### New Service, Equipment, and Renovations

Where applicable, formal risk ranking, safety certification or hazard assessments are conducted prior to implementing new and upgraded systems equipment; during the preliminary engineering phase of renovations; and on all projects that include safety critical systems and changes to bus operations, inclusive of alterations to and the addition of new bus routes. These assessments are undertaken to identify safety critical systems and document any hazardous components, interfaces, environmental factors, and safety risks associated with operations, maintenance, and emergency procedures, as well as their effect on passengers, the public, employees, equipment, and infrastructure.

#### Historical Data and Trend Analysis

The District's incident data provides insight as to what has happened in the past and what safety risks and hazardous conditions should be reviewed and considered for mitigation. This may include reviews of rule violations, bus collision histories, and employee and passenger injury trends.

#### **Design Reviews**

The SMS Advisory Committee participates in design reviews to identify conditions and events that may be hazardous to employees, customers or those who may come into contact with the District's bus service. The Director of Safety and Security is identified as the Chief Safety Officer and manages the transit agency's safety function, such as compliance with federal state, and local regulations, and overseeing the safety requirements for transit projects. This includes driving the safety management system and risk management process continuously throughout the safety and security Core Management Functions of design review.

### **Operating System**

The District conducts both formal and informal operational and occupational safety evaluations of its facilities, equipment, and operations to proactively identify hazards.

#### Occupational Safety and Health Evaluations

The District's Human Resources Department is tasked with providing a safe and healthful working environment for its employees and reducing the likelihood and severity of accidents. The

Department Programs emphasize the proactive identification, evaluation, and control of safety hazards arising within and out of the occupational environment. Corrective action plans are implemented where indicated. Systems, processes, and facilities are continually reviewed for hazards. The District employs surveys, inspections, audits, committees, injury causation evaluations, and solicits employee input as part of its hazard review.

Worker safety programs include an Injury Illness Prevention Program, Violence Prevention Program, Safety Training, Auditing, Investigations, Reporting, and Infectious disease program. The Infectious disease procedures and the COVID program are communicated at a minimum once a year to all employees. A COVID SMART plan are the protocols in place for mitigations and minimizing exposure to infectious disease.

Industrial Hygiene surveys are conducted to assess the potential degree of employee exposure to environmental, chemical, biological, and physical agents encountered in the workplace. The results of these surveys are then used to determine the necessary corrective actions, if any, including the implementation of engineering and administrative controls and/or the required use of personal protective equipment (PPE). The District's Safety Department reviews employee injuries and illnesses, which are also reviewed by the appropriate safety committee.

#### Inspections

All District operations and maintenance facilities are under safety inspections by the Safety Department at least once a year to ensure the safety of its employees and the public. Individual maintenance divisions undergo quarterly inspection due to the nature of the hazards and potential risks associated with their operations. Inspection reports are issued which list the hazards found during the inspection. Follow-up inspections, remedial actions, and reports are logged.

#### Accident/Incident Investigations and Data

Accident and incident reports, injury and illness reports, and workers' compensation databases are additional methods the District uses to identify hazards. The Accident Reduction Committee (ARC) meets monthly to analyze accident/incident trends and to provide leadership in the implementation of appropriate mitigation controls. Post-incident review and analysis of all major accidents and incidents is conducted by stakeholders from the District's Transportation, Operations, Training, Legal and Labor Departments to develop a consensus determination of causal factors and the appropriate organizational response, inclusive of retraining and discipline. The Safety Department will assist in final determinations if consensus is not met.

All incidents are investigated by Field Supervisors at the scene with follow-up postmortem additional investigation as warranted by the facts and circumstances of the respective incident. Video review may be included during accident review and determinations.

#### **Audits**

Audits are conducted by the District's internal Audit Business Unit and Safety Department. The Internal Audit Department conducts a review of the PTASP to ensure compliance with current, federal, state, and local requirements. They will also review and evaluate the SMS implementation

within the District and identify opportunities for improvement. The Safety Department ensures that safety audits meet Federal, State, and local requirements by using Safety Management System tools and auditing to the PTASP processes such as Safety Management Policy, Safety Risk Management and Safety Assurance. The Safety Department develops and designs the audit program based on previous safety issues, mandates, and safety management systems implementation. Results of the audit are available for review by the required authority or governance committee.

#### Ad Hoc Hazard and Incident Reporting

All District employees are responsible for reporting hazardous conditions to their immediate supervisor or calling in to the Operations Control Center (OCC), as circumstances might require. Hazards reported to the OCC are logged into Origami Data is accumulated and used to identify actual and potentially hazardous conditions which may potentially adversely impact the safety of passengers, employees, and persons interacting with the District. Data maintained and analyzed included, but is not limited to injuries, potentially hazardous equipment use and failures, and rules, regulations, and procedures violations. Hazard related data is tracked longitudinally to identify trends which might impact the District's system safety goals and objectives.

Hazards that are determined by Operations and/or the Safety Department to be an immediate safety threat, such as malfunctioning wheelchair ramps or bus door sensors, are immediately corrected. These incidents are sent to the appropriate manager or safety administrator for resolution. Members of the general public may also report their concerns by contacting Customer Service, the Risk Management Department, or Field Supervision. These contacts are logged and routed to the correct person for resolution.

### Safety Risk Assessment

AC Transit performs safety risk assessments on its assets through its Risk Ranking Tool and the Transit Asset Management Plan to measures and mitigate safety risks. The ranking tool is used to categorize the likelihood, severity, and impact factors affecting agency safety risks. As outlined in the Transit Assessment Management Plan, the condition ratings and useful life benchmarks prioritize the severity of safety risks on physical assets.

#### **Hazard Categories**

In general, the District identifies system safety hazards by conducting formal project hazard assessments. These include operating system investigations and evaluations of incidents that have resulted in or have the potential to result in injury, fatality, or system loss. Operating system incident, accident, and/or mishap trend analysis results are categorized through a formal classification system. The hazard classification system is used to determine the acceptability of assuming the risk associated with identified hazards and the necessity of implementing risk controls to reduce the hazard to acceptable levels or to eliminate the hazard altogether.

Hazard categorization involves classifying the identified hazards in terms of severity and probability. The District has adapted the Risk Assessment and Hazard Risk index matrixes developed by the United Stated Department of Defense document, Standard Practice for System Safety, MIL-STD-882E, as its guideline for determining the hazard severity and probability.

#### **Hazard Severity**

Hazards are rated according to their effect on District customers, employees, the public, and District operations. The hazard severity rating is a subject measure of the worst-case consequence that would result from design deficiencies; components failure of malfunction; human error or negligence; environmental conditions; or operations or maintenance practice, and procedure deficiencies.

#### Hazard Severity Rating

	Soverity		Charact	teristics	
	Severity	People	Equipment/Services	Financial	Reputational
1	Catastrophic	Multiple fatalities and/or numerous severely injured	Total loss of equipment or system disruption, requiring months to rectify	Estimated loss from the incident in excess of \$7,000,000	Ongoing media coverage, severe to irreparable reputational damage, governmental intervention, Weeks to Months
11	Critical	Singular fatality and/or several severely injured	Significant loss of equipment or system disruptions, requiring week to rectify	Estimated loss from the incident in the range of \$3,000,000 to \$7,000,000	Prolonged media coverage, serious reputational damage, sustained government involvement, Days to Weeks
Ш	Moderate	Severe injuries and/or numerous minor injuries	Some loss of equipment or system disruption, requiring < 7 days to rectify	Estimated loss from the incident in the range of \$500,000 to \$3,000,000	Adverse media coverage, reputational damage, government involvement, Days
IV	Minor	Severe injury and/or multiple minor injuries	Some loss of equipment, no system disruption, requiring < 24 hours to rectify	Estimated loss from the incident in the range of \$15,000 to \$500,000	Local media coverage and some reputational damage, Day
٧	Insignificant	Minor injuries or No injuries	Minor damage to equipment, no system disruption, no immediate repair necessary	Estimated loss from the incident is up to \$15,000	No adverse media coverage or reputational damage

#### Hazard Probability Rating System

The probability that a hazard will occur during the planned life expectancy of the system element, sub-system or component is described qualitatively, in potential occurrences per unit of time, events, population, items, or activity. A qualitative hazard probability is derived from research, analysis, and evaluation of safety data from the operational experience of the District or from historical data from comparable agencies.

#### Hazard Probability Rating System

Probability Level	Specific Individual Item	Fleet or Inventory	Frequency
Frequent	Likely to occur frequently in the life of an item	Continually experienced	> 25 incidents per annum (Weekly)
Probable	Will occur often in the life of an item	Will occur regularly	> 12 to < 25 per annum (Monthly Plus)
Likely	Will occur several times in the life of an item	Will occur several times	>5 to < 12 per annum (Monthly)
Occasional	Likely to occur sometime in the life of an item	Will occur a few times	> 1 to < 5 per annum (Annually)
Remote Unlikely but possible to occur sometime in the life of an item		Possible to occur in the life of the system	> .0001 to < 1 per annum (Rarely)
Improbable So unlikely, it can be assumed that occurrence may not be experienced		It can be assumed it will not occur	< .0001 per annum

#### Hazard Risk Index

Viewed in relation to one another, the hazard severity and hazard probability properties measure a hazard's magnitude and allow for the prioritization of applying control measures. Hazards are then analyzed, evaluated, and treated based on the likelihood that an event will occur and the potential severity of the consequence of that occurrence. The value derived by considering a hazard's severity and probability is the Hazard Risk Index. The Hazard Risk Index measures the acceptability or unacceptability of the hazard.

The Hazard Risk Index enables the District's management to properly assess the amount of risk involved by viewing the hazard relative to what it would cost the District (in terms of man-hours, funding, operations, schedule, etc.) to reduce the hazard to an acceptable level. The following matrix identified the Hazard Risk Index based on hazard category and probability, as well as the criteria for defining further action based on that index.

#### Risk Index Rating

Frequency of	Severity Category					
Occurrence	1 Catastrophic	2 Critical	3 Moderate	4 Minor	5 Insignificant	
(A) Frequent	1A	2A	3A	4A	5A	
(B) Probable	1B	2B	3B	4B	5B	
(C) Likely	1C	2C	3C	4C	5C	
(D) Occasional	1D	2D	3D	4D	5D	
(E) Remote	1E	2E	3E	4E	5E	
(F) Improbable	1F	2F	3F	4F	5F	

#### Risk Decision Criteria

Risk D	ecision Criteria	Rating
	Unacceptable	1A, 1B, 1C, 2A, 2B, 3A
	Undesirable - Executive Level Review Required	1D, 2C, 2D, 3B, 3C, 4A, 4B
	Acceptable - Management Level Review Required	1E, 1F, 2E, 2F, 3D, 3E, 4C, 4D, 5A, 5B
	Acceptable - Acceptable without further review	3F, 4E, 4F, 5C, 5D, 5E, 5F

### Safety Risk Mitigation

The District's SMS Advisory Committee is the principal body for assessing and resolving identified hazards within the District's operating system. The committee establishes control measures to reduce the likelihood and severity of risks based on the ranking tool. Physical assets are mitigated through the agency's Capital Improvement Program. Provided below is an example of the Risk Index Dashboard the summarizes the score of risks by level and probability/severity.

#### Example Risk Index Dashboard



If the SMS Advisory Committee conducts a formal assessment, the Hazard Risk Index is used to assist the decision-making process in determining whether a safety risk should be eliminated, controlled, or accepted. If the potential for an accident/incident reveals a Category 1 (Catastrophic) occurrence with a Level A (Frequent) probability, the system safety effort is directed toward eliminating the hazard through design, redundant hazard control measures, or avoidance. A catastrophic (Category 1) or critical (Category 2) safety risk may be determined to be tolerable if it is determined that the likelihood of occurrence is highly improbable. A probable or Level B safety risk may be tolerated if it is demonstrated that the result of the occurrence would be minor (Category 4) or minimal (Category 5). This rubric provided a basis for logical risk management decision-making through the informed consideration of the hazard's severity and probability. As safety risks are identified, various strategies are employed to control and reduce the risks to acceptable levels. Unacceptable and undesirable risks must be reported to the Accountable Executive for determinations.

#### Elimination or Minimization of the Hazard

<u>The SMS Advisory Committee participates in making a determination to eliminate or minimize the hazard by the following:</u>

<u>Design for Minimum Risk</u> – The hazard will be eliminated by a change of design, if feasible. If the identified hazard cannot be eliminated by design revisions, the hazard will be reduced to an acceptable level, according to the Risk Assessment Criteria, through design selection.

<u>Incorporate Safety Devices</u> – If design revisions or selection cannot eliminate or adequately reduce the identified hazard(s), then the District will reduce the hazard to an acceptable level through the use of fixed, automatic, or other appropriate protective safety design features or devices.

<u>Provide Warning Devices</u> – When both design and safety devices fail to provide effective elimination or adequate reduction of the identified hazard(s), warning devices and signage will be used to provide warning signals to the public and District personnel. Warning signals and their implementation will be designed to minimize the probability of incorrect interpretation as to their meaning and will be standardized within like types of systems and applications.

### Use of Engineering Controls

Engineering controls reduce the burden of occupational injury and illness for the District's employees and the customers it serves. Engineering controls protect workforce by removing or reducing hazardous conditions such as hazardous dust or excessive noise or by isolating the worker from the hazard. Examples include driver barriers, bus striping, or office patricians to shield airborne emissions from



employees. Well-designed engineering controls can be highly effective in protecting the District's workforce.

### **Use of Administrative Controls**

Where identified hazards cannot be eliminated through design selection or reduced to acceptable levels through safety and warning devices, the District will implement appropriate procedures and training. However, without specific direction from the District's Executive Staff, no warning, caution, or other forms of written or pictorial advisories may be used as the sole risk reduction method for Category 1 and 2 hazards.

### **Use of Personal Protective Equipment**

Provision of Personal Protective Equipment (PPE) appropriate to the hazard – If the identified hazard cannot be eliminated or adequately controlled with administrative controls, personal protective equipment may be needed. The District requires training on the proper use of the equipment prior to employees being placed in environments requiring the use of such equipment.

### **Tracking**

The District's SMS Advisory Committee tracks and analyzes identified hazards within the District's sphere of operations until resolution. Safety risks related to capital projects (such as BRT, equipment procurements and system renovations and upgrades) are reviewed and resolved by the Capital Programming Committee specifically created to review and prioritize project requests.

Executive Staff are advised of Category I and II level hazards that cannot be acceptably resolved by the Capital Programming Committee to an acceptable level for final resolution.

### **Capital Investment Prioritization**

AC Transit uses its Capital Improvement Program (CIP) process to prioritize its investments. The program's process includes category factors when considering the investment priority. The basic unit of the prioritization process is the project request that is created by District staff and have a set of required fields to assist in the prioritization process.

#### Prioritization

Priority 1	Description
Safety	Requests that concern safety or security critical assets or initiatives. This applies to the safety of both riders and employees.
Compliance	Requests that are necessary to fulfil regulatory compliance requirements.
Maintenance	Requests for maintenance of existing assets. This encompasses the bulk of state of good repair requests.
Business Case	Requests that can show a quantifiable benefit from their implementation.  These requests are generally not necessary from a maintenance standpoint but could save the District money in an identifiable and specific way.
Enhancement	Enhancement of existing assets or addition of new assets that are not required for maintenance purposes. Expansion projects.

The asset inventory and condition assessment are used in this step to create project requests based on the asset age or condition (as applicable to that asset class) for rehabilitation or replacement of the assets that are indicated within the fiscal period. Requests can cover individual or groups of assets, and include a cost estimate, sponsoring department and project manager information, and any relevant documentation.

### FTA General Directive

AC Transit has established the Operations Safety Taskforce to focus efforts on the continuing safety risks associated with assaults on transit workers. The taskforce meets on a scheduled basis to address agenda topics and meet the following FTA general directive 24-1 requirements:

- Transit agencies must use the Safety Risk Management process documented in the PTASP to assess transit worker assaults.
- Identify safety risk mitigations to reduce the likelihood & severity of consequences in the safety risk assessment.
- Provide information to FTA on how the agency assesses, mitigates, and monitors the safety risk associated with assaults on transit workers.

Incident Notification, Investigation and Reporting

### **External Notifications and Thresholds**

All external notifications of significant transit incidents are initiated by AC Transit's Operations Control Center in accordance with the reporting thresholds listed below. The SMS Advisory Committee or designee is the primary point of contact with all external agencies in the event an investigation is initiated by any of the external agencies and for the provision of updates and additional information, as required by the incident. All initial notifications will include the following:

- Brief description of the incident
- Casualties number of fatalities and/or injuries
- Date, time, and location of the incident

#### **Hyper-Alert Notifications**

District management, including the General Manager, General Counsel, Chief Operating Officer, and Director of Transportation, and the Claims Manager are notified of any event resulting in injury to passengers or employees, damage to District property, damage to non-District property due to transit operations, disruption of transit services, or any other significant event. All notifications are made via the District's automated Hyper-Alert system and include messaging via text message, email, and telephone call. Notification lists are maintained by the Operations Control Center and are updated on a regular basis.

### **Accident Investigations Process**

Personnel from the District's Services Supervision initiate investigations of all transportation related incidents. The seriousness of the event determines the level of investigation and may escalate the investigation to include personnel from the Office of the General Counsel. Incidents, which do not involve serious injury and/or significant damage, usually require only an investigation by the Road Supervisor responding to the scene. Once on scene, the Road Supervisor will:

- Assess the incident.
- Assist local law enforcement, as appropriate.
- Conduct an investigation.
- Conduct interviews of involved District personnel, witnesses, and other involved parties, as appropriate
- Gather and collect physical evidence.
- Photograph the scene, as appropriate.
- Submit a report to the Legal Department based on the information collected.

All Category I-III incidents and hazardous conditions require major incident notification via Hyper-Alert notification to executive-level representatives from Services Supervision, Operations, Transportation, Legal, Safety, and, as appropriate, Maintenance. When notified of a major-level, Category I-III incident, the incident investigation team, inclusive of an investigator from the Office of the General Counsel:

- Conducts and on-site inspection and documentation of the incident or accident scene.
- Reviews reports and/or statements provided by involved personnel.
- Conducts interviews with involved personnel and witnesses, as appropriate.
- Reviews physical evidence.
- Secures District property and vehicles for post-incident inspection.
- Performs systems tests and analysis, if applicable; and
- Coordinates incident/accident reconstruction activities, if applicable.

In addition to the on-scene and post-mortem investigations, the District's Accident Review Unit reviews bus collisions and on-board incidents for preventability.

### **Corrective Action**

The Safety Manager participates in the reviews of all accident reports for potentially serious incidents or conditions. Additionally, when reports and statistics show repetitive trends that result in an inability to meet or exceed District safety goals and objectives, the Safety Manager may initiate an investigation to determine causal factors.

### **Internal Safety Audits**

The internal system safety audits provide the means of informing District management on the extent to which the District's internal processes, programs, and activities are meeting planned and published system safety program requirements and goals. Audits are authorized by District senior

management. District Safety Staff or its designee conducts the system safety audits on both scheduled and random bases. The following area are included in the schedule of audits:

- Goals and Objectives
- Overview of Management Structure
- Program implementation Activities and Responsibilities
- Hazard Management Process
- System Modification
- Safety and Security Certification
- Safety Data Collection and Analysis
- Accident Investigation
- Emergency Management Program
- Internal Safety Audits

- Policy ad Rules Compliance
- Facilities and Equipment Inspections
- Maintenance Audits and Inspections
- Training and Certification for Employees and Contractors
- Configuration Management and Controls
- Local, State, and Federal Requirements
  - Hazardous Materials Program
  - Drug and Alcohol Program
- Procurement Process

The District may conduct both announced and unannounced audits. Announced audits are scheduled to minimize disruption of activities. Unannounced audits may be performed by the Safety Department where the audit team is informed.

### SAFETY ASSURANCE

### **Emergency Operations Center**

The Emergency Operations Center (EOC) provides the ability to respond quickly and in an organized manner that is vital to the continuation of transit service during a special event, emergency, or during the recovery from a catastrophic incident, including but not limited to:

- Earthquake
- Fire
- Flooding
- Hazardous material spill
- Medical emergency
- Pandemic

- Severe weather
- Pandemic
- Severe weather
- Transit related accidents
- Volcanic activity

AC Transit has an Emergency Operations Plan that is designed to assist District staff who have key roles and responsibilities during an incident. Emergency Management Response Team staff required to report to the Emergency Operations Center use the Emergency Operations Plan to guide their actions in completing assigned tasks. The Emergency Operations Plan is comprised of multiple documents, identified, and described below.

### Emergency Response Plan (ERP)

The ERP provides an overview of AC Transit's organization, policies, and approach to emergency management of an incident; summarizes actions and processes for addressing all hazards; and explains the general concepts of incident management. The ERP also identifies the responsibilities for the Emergency Response Team that provides leadership and guidance for the ERP.

#### **ERP Annexes**

The annexes provide targeted information, forms, and checklists to direct the activities of AC Transit staff participating in emergency response efforts. The following annexes are included in this Emergency Operations Plan, and are designed to be stand-alone documents useable by staff:

- Annex A: Emergency Operations Center Guidance and Forms
- Annex B: Emergency Operations Center Checklists
- Annex C: AC Transit Forms and Procedures
- Annex D: Miscellaneous Information, including authorities for emergency management.

## **Employee Training and Re-certification**

All safety-sensitive bus transportation and maintenance staff are initially instructed on the operational and safety rules and procedures and are provided with Standard Operating Procedures and Rulebooks, as appropriate for their function.

### **Employee Training**

New employees are required to attend a safety orientation and training module prior to beginning work. The purpose of the training is to review the contents of the job duties and to ensure a clear understanding of the safety and compliance requirements prior to performing work. Employees may be subject to periodic refresher training as needed. The New Employee Safety Orientation procedure contains the following checklist items:

- 1. The supervisor or management designee will be responsible for all new employee safety orientation and training.
- 2. Upon completing orientation training, the employee's manager shall sign and date the New Employee Safety Orientation Training Checklist verifying training.
- 3. Training includes safety, responsibility, compliance, communication, site orientation, and training.
- 4. Trainee and trainer must sign off the New Employee Safety Orientation Training Checklist before new employee is permitted to work unsupervised.

A copy of the completed New Employee Safety Orientation Training Checklist will be sent to the Safety Department.AC Transit provides de-escalation training to employees. The current strategy is to support our labor partners under the Collective Bargaining Agreement. The classes can be included in the CDL class and new bus operator. Classes are offered twice a week form the training department. The primary attendees are ATU members. The Assault Awareness and De-escalation training includes the following:

Module 1: Defining assault and recognizing operator vulnerability.

Module 2: Using skills and strategies to prevent assaults.

Module 3: Reporting incident and seeking assistance.

#### Re-Certification

Bus Operators receive annual training by qualified Training Instructors. The training process includes performance testing as well as supplemental training, based on accidents, or reported behaviors.

Transportation Supervisors and Controllers are also required to re-qualify annually. The process includes review of safety critical rules and procedures, particularly those that have a frequency of violation; new procedures or rules; written knowledge testing, and performance testing. Requalification may be required any time an Operator, Supervisor, or Controller performance record indicates a deficiency.

Training class logistics and critical safety topics are entered into the Training Database Application. The physical training record/document is sent to the employee's home division for record retention. All incidents or accidents are identified prior to class enrollment enabling corrective actions to be addressed/remedied during the training process.

### **Cybersecurity Training**

The District has developed security-specific training to enhance the skills of the current staff and to set standards for future members of the district. Training can be obtained from classroom learning, online courses, or through self-instruction using a reference library. This ongoing training will better provide the staff with the skills necessary to meet corporate information security goals. Monthly newsletters provide up-to-date information on new cybersecurity initiatives, threats, and best practices.

### Safety System Inspections

As part of the Safety Management System AC Transit performs audits and inspections to ensure compliance with established safety programs. The following list provides activity examples to monitor safety assurance.

#### Safety Scheduled Activities

Safety System Task	Frequency	
Oversee and assure SMS compliance	Ongoing	
Random inspections of Departments for safety compliance (pre-trip inspections, driver files, maintenance records, etc.)	Quarterly	
PTASP review, maintenance, and distribution	Annual	
Facilities Inspection	Monthly	
Employee safety training and testing and record keeping	Initial Hire/ Quarterly	
Drug free workplace (policy maintenance, employee training and testing, etc.)	Initial Hire/ Quarterly	
Driver license validity check and record maintenance	Initial Hire/ Quarterly	
Administrative/Human Resource safety actions	As Needed	
Safety and security data acquisition and analysis	Daily	
Medical examination of drivers and record keeping	Initial Hire/ Quarterly	
Vehicle and equipment procurement	As Needed	
Pre-trip inspections and record keeping	Daily	
Vehicle maintenance and record keeping	Daily	
Safety inspections and record keeping	Annual	
Event investigation and record keeping	As Needed	
Investigate safety complaints	As Needed	

Safety System Task	Frequency
Pre-employment screening	Initial Hire
Employee time recording and maintenance	Daily
Internal safety audits	Annual
Facilitate external safety audits	As required
Records maintenance, retention, and distribution	Ongoing
Self-certification of safety compliance	Annual
Intra-agency coordination and safety meetings	Quarterly

### Safety Integration and Coordination

### **Safety Committees**

The SMS Advisory Committee may participate on a number of committees to promote the PTASP; act as a subject matter expert; and/or facilitate the identification of hazards; identify the proper resolution of safety issues; or distribute safety information. The Committees may include:

- Fire/Life Safety/Security Committee
- Bus Transportation and Maintenance Safety Committees
- Safety and Security Committee
- Division Safety Committees
- Accident Review Committees
- Operations Safety Taskforce

#### <u>Safety Department</u>

The Safety Department is responsible for the coordination of the collection, maintenance, analysis, and reporting of safety data, achievements, and problems. The purpose of this activity is to understand trends, determine leading and lagging indicators, and to monitor performance towards the established safety goal and objectives. Using a safety management system or other tools, this activity may be accomplished through following steps:

- Define information requirements and sources.
- Collect pertinent data from AC Transit departments.
- Monitor safety conditions and performance.
- Analyze safety-related data-system failures, accident statistics, accidents trends, etc.
- Report safety performance, achievements, and concerns to the Accountable Executive,
   Executive Directors, Directors, and other District managers

### **General Counsel**

The General Counsel's office is responsible for providing legal counsel, advice, and litigation services to the District's Board of Directors and to the internal departments of the District. The General Counsel also oversees Risk Management and Claims Administration, Worker's Compensation, and the Video Review Unit.

### **Operations Department**

The Operations Department supports the District by providing safe, clean, and reliable public transportation service to the East Bay and other communities in our service area. Functions within Operations include Transportation, Maintenance, Training and Education, Operations Control Center, Service Supervision, Technical Services and Protective Services departments. The Operations Team provides leadership direction to nearly 2,000 front line employees and oversees operations and maintenance of over 630 buses, more than 150 non-revenue vehicles and 7 facilities located across the East Bay.

Team building, mentoring and motivating staff drives our success, which is our focus. Asset and performance management in a safe and efficient manner is our priority. Our passion is to create an environment that inspires and harbors creative and innovative solutions with a continuous improvement commitment. Our moto is "Relentless Leadership in Pursuit of Excellence."

### **Operations Control Center**

The Operations Control Center Department is assigned the responsibility for managing the safe operation of buses, responding to emergencies, and resolving issue which arise during the course of daily operations. Responsibilities include:

- Prepare and implement safe operating policies, plans, rules, and procedures and submit them to the Director of Compliance and SMS Advisory Committee for approval.
- Revise safe operating policies, plans, rules, and procedures when needed to reflect current operating conditions.
- Monitor adherence to safety-related policies, plans, rules, and procedures. Identify personnel whose safety record requires follow-up, additional training, or discipline, including discharge.
- Report safety violations to the Safety Department
- Correct any condition, which has caused, or has the potential to cause, injury to persons
  or damage to property/equipment.

#### **Human Resources**

The Human Resources Department is responsible for ensuring compliance with FTA drug and alcohol regulations during the hiring process.

### Innovation and Technology Department

The Innovation and Technology Department coordinates with other departments, including the SMS Advisory Committee, to emphasize acceptable levels of data security. This includes the

evaluating processes and providing roadmaps to remedy risks in the Cybersecurity and Data Governance Programs to ensure the data is accurate, consistent, secure, and aligns with overall organizational objectives. These safety activities include:

- Cybersecurity Governance
- Security Awareness Email Social Engineering
- Logical Security
- Physical Security Controls
- Threat and Vulnerability Management
- Third Party Risk Management
- Employee Management Security Awareness Training
- Data Protection
- Logging and Monitoring Security Information and Event Management
- Security Configuration Management

### Planning & Engineering Department

The Planning and Engineering Department coordinates with other departments, including the SMS Advisory Committee, to emphasize acceptable levels of safety in the engineering design of new equipment, facilities, and construction specifications on Capital Projects. It provides procedures that ensure vehicles and equipment, with defects or deficiencies, are not placed into operation. Additionally, the Department is responsible for the supervision of contractor activities to ensure adherence to safety rules, procedures, and regulations.

### External Affairs, Marketing, and Communications

The External Affairs, Marketing, and Communications Department (Community Relations) provides information regarding AC Transit programs, operations, and events. With regard to safety, the department develops and conducts Outreach programs, that is, safety awareness programs and packages. These are provided to local schools, communities, citizen groups, media, and patrons. These programs and packages highlight the risks to safety and the need for safe behavior on or around AC Transit equipment and facilities.

### Internal Audit Department

The Internal Audit Department has responsibilities for performing operational and compliance audits within AC Transit based on a risk assessment process. However, the Department may perform Drug and Alcohol Program audits of the District's contractors as well as other audits as requested by the SMS Advisory Committee or other District Departments.

### **Contracts and Procurement**

The Contracts and Procurement Department, as part of the hazard management process, works with the SSES when issuing contracts to ensure that contractors are compliant with state and federal regulations and with AC Transit requirements. Contractors who may conduct safety

sensitive work are identified and the information is shared with the Drug and Alcohol Program Coordinator for further review.

### Safety Responsibilities of Other Departments

Managers and Supervisors in all departments and divisions are responsible for the prevention of accidents, identification of hazards, and resolution of such hazards. Reports of all accidents/incidents, deficiencies and defects will be maintained in the incident application which is available to the SMS Advisory Committee for review.

### System Start-Up and Testing

The District's Safety Management Systems Advisory Committee performs activities dealing with safety during the design, construction, testing and operational start-up phase in the Capital Investment Program. The process provides a structured framework within which testing must be accomplished and will include general policy guidelines on the use of personnel. The Integrated test program includes the following activities:

- Review procurement specifications for inclusion of safety requirements
- Participation in Safety Design Reviews
- Job Hazard Analysis
- Audit acceptance test procedures for inclusion and satisfactory completion of tests, which assess compliance with safety requirements.
- Develop and approve project specific certifiable items and manage the safety and security certification program.
- Assist in inspection of new facilities to ensure they meet safety requirements.

### **Training and Qualifications**

When new equipment is installed, the personnel responsible for operating this new equipment must complete an orientation to familiarize themselves with the new installations. This orientation, conducted by the Contractor includes instruction, on-the-job training, and testing. The Safety Department and Human Resources Department shall maintain records of personnel training and certification.

### Permits and Licenses

Permits needed for construction and operation of the system will be identified and the process for obtaining permits will be outlined in the final design. Tests, inspections, certifications and all required permits and licenses issued by local, State, and Federal agencies, must be included in the closeout documentation provided by the Contractor. Construction permits and code inspections, including Certificate of Occupancy, are obtained by the Contractor.

### Safety Certification, System Start-up and Turnover

The Contractor shall apply controls to assure the safety, completeness, and operability of equipment and systems transferred from construction to operations, including provisions for turnover of portions of systems, equipment check-out, start-up, testing, warranties, and personnel training. Safety and Security Certification of Certifiable Elements in the System shall be performed in accordance with the latest revision of The East Bay BRT Safety and Security Plan.

### Calibration, Functional Check-out, and Alignment

The contractor will conduct and complete calibration, functional checks, and alignment of operating systems such as signal prioritization, real-time passenger information signage and fare vending machines before formal acceptance.

### SAFFTY PROMOTION

At every level of the District, employees from the Executive Office to individual District personnel has the responsibility for assuring the AC Transit service provides the highest standards or level of safety, in accordance with the PTASP.

### Safety Program Coordination

The General Manager has delegated the authority for the development, implementation, and management of the PTASP to the Chief Safety Officer who is responsible for the coordination of the District's safety program and initiative efforts to improve the overall safety of transit customers, the public and employees. Specific responsibilities include:

- Develop and update the PTASP.
- Coordinate and implement the PTASP.
- Manage SMS Advisory Committee activities.
- Support District safety-related programs, activities, and initiatives
- Support District emergency management activities with emergency response agencies impacted by District operations.
- Monitor and evaluate safety related programs and activities at each District organizational level.
- Support training and testing of transportation personnel, both Bus Operators and Supervisors and Controllers and Dispatchers in the proper performance of safety-related operating policies, plans, rules, and procedures. Personnel are systematically trained, tested and certified in the proper performance of all safety-related rules and procedures. This applies to both normal and emergency conditions. Employees are provided with copies of safety and emergency rules, procedures, and policies that affect them. Employees must be re-certified on an

### Safety Communication Channels

AC Transit has established communication channels to inform and educate employees, contractors, and passengers. Initial and ongoing training of District employees on the PTASP will become part of the safety culture and facilitate a continuous improvement process. Safety performance information is distributed through various internal publications and employee gatherings. Provided are examples that include but are not limited to the various information sources.

- ✓ Safety Bulletins
- ✓ Tailgate Meetings
- ✓ District Intranet

- ✓ Town Hall Meetings
- ✓ Digital Board
- ✓ Flyers/ Posters/ Read Boards

### Transit Asset Management Plan

AC Transit's Transit Asset Management Plan is a strategic approach in managing fleet and facilities; to optimize their performance; their useful life; and to minimize the total cost of ownership. AC Transit has developed a framework for asset management and implementing procedures in the form of a Fleet and Facilities Maintenance Plan. These Maintenance Plans will be used to monitor and manage assets to achieve and maintain a state of good repair, improve safety, and increase reliability and performance as shown in the figure below. The purpose of these Maintenance Plans is to not only ensure that our assets are maintained in a state of good repair, but also to help to enhance our operations by providing safe, frequent, and reliable service. Provided is the TAM Plan evaluation and asset lifecycle path demonstrating its support to continuous improvement.

#### Asset Lifecycle



### Fleet/ Facilities Maintenance Plan

AC Transit has developed the Fleet Maintenance Plan to monitor and manage assets to achieve and maintain a state of good repair, improve safety, and increase reliability and performance. The purpose of the Fleet Maintenance Plan is to provide an overview of the Department's budget, structure, asset management, and maintenance programs. For all operating revenue and non-revenue fleet assets, the Fleet Maintenance Plan addresses the following activities.

Fixed Asset Activities			
Asset Inventory	Training		
Condition Assessment and Performance Measures	Vehicle Acceptance		
Condition Reporting	Decommissioning		
Organization Structure	Fiscal Budget		
Preventative Maintenance, Inspections and Cleanliness Activities	Enterprise Asset Management and Work Control		
Replacement Schedule	Warranty Program		
Maintenance Program Structure	Capital Improvement Program		

#### Maintenance Program

Maintenance and inspections of the District's operating systems must be effective to assure that all revenue and non-revenue vehicles and equipment operate as required, or in the event of failure or degradation of functionality, that operational safety is not compromised. This aspect of inspection and maintenance directly pertains to the safety of AC Transit customers, employees, emergency response agencies, the general public, and subcontractors of the District.

AC Transit's maintenance program is based on the original equipment manufacturers maintenance intervals as well as industry best practices. The program is designed to maximize the effective and efficient useful life of the District's bus fleet and facilities. The preventative maintenance inspections and scheduled standard tasks are the foundation of the District's maintenance programs.

The purpose of the program is to maximize the useful life of its fleet, buildings, infrastructure, and equipment through regular inspections, cleaning, maintenance, and repairs. Equipment and machinery are periodically scheduled for service based on the original equipment manufacturers' recommendations and/or industry best practices. The frequency and level of preventative maintenance service may vary based on equipment usage and coordination with other scheduled predictive analysis.

#### **Driver Vehicle Inspection Reports**



A hold card is used to identify an unsafe or unauthorized vehicle that was removed from service. This may be used in conjunction with or in lieu of a red tag. Hold cards may also be used to schedule maintenance for safety or reliability purposes.

The Driver Vehicle Inspection Reports (DVIR) is a daily inspection referred to as a "Coach Pre-Trip Inspection and Defect Report" that requires operators to perform inspections defined by the California Code Regulations Title 13 and the Districts Operator User Guide. Several critical safety items are checked that include a brake and air loss test, as well as proper operation of other safety-related items such as horn, wipers, tires, and lights.

A DVIR form is provided to the operator prior to his/her shift and to be completed and returned as instructed by Transportation Department management. All DVIR's are communicated to the Maintenance Department and addressed. A combination of in-house designed supervisor repair control log, as well as Ellipse EAMS work orders are used to maintain repair structure and on-time servicing.

### **Security Functions**

For traditional security functions as well as terrorism prevention, AC Transit's plans are based upon a formally adopted policy of awareness, alert observation and reporting by all employees, especially front-line personnel, combined with effective responses by both District Operations and first-responder law enforcement and emergency management organizations. AC Transit riders are also asked to report suspicious behaviors or packages to employees or call 9-1-1 in the event of an incident. The District's Security Department works in partnership with Police and Sheriff departments throughout AC Transit's service area for high responsiveness to calls for police on the transit system, for application of the District Code throughout the AC Transit service area, and for effective criminal investigations and prosecutions.

In support of security awareness and reporting by transit system employees, AC Transit design criteria for new service projects applies crime prevention through environmental design and provides Closed Circuit Television (CCTV) and other equipment to enhance security.

#### Hours of Service

AC Transit has established and implemented an "Hours of Service" for the District's Bus Operators defined in the Collective Bargaining Agreement. The intent of the rules is to assure that operations and maintenance of AC Transit revenue vehicles are not placed at risk from the possibility of fatigue by employees. The rules apply to safety sensitive positions directly involved with revenue vehicle operation, maintenance, supervision, control, and dispatching.

#### Rider Guides

AC Transit provides rider guides for its customers as a general tool to use the District's bus service to provides for the safety of the public. Detailed information can be found on the AC Transit website to advise customers on safety precautions that include:



- ✓ Catching and boarding the bus
- ✓ Stopping and exiting the bus
- ✓ Accessibility
  - ✓ Boarding bikes, strollers, and animals
- ✓ Proper riding etiquette

## **Procurement Safety Standards**

Procurement of new systems such as facilities, equipment, and rolling stock include safety requirements in specifications, design reviews, testing and configuration control. These procurements include consultation with the SMS Advisory Committee to ensure basic system safety principles. The Safety Advisory Committee may act as a Transit Review Change Committee or management of change committee to ensure the following:

- Consideration is given to the following safety requirements:
- Compatible with the existing AC Transit system safety features, design, and procedures.

- Incorporate "fail-safe" principles when failures would cause a catastrophe resulting in injury to personnel, damage to equipment, or inadvertent operation of critical systems.
- Avoid, eliminate, or reduce identified safety hazards by design change, safety devices, and parts or materials selection. The composition of hydraulic fluids, lubricants, and other materials shall provide optimum safety characteristics and fire-resistant properties.
- Location of equipment components so that access by personnel during operation, maintenance, repair, or adjustment activities shall not require exposure to hazards such as electrical shocks, burns, cutting edges, sharp points or dangerous or toxic materials.
- Design to minimize severe damage to equipment or injury to personnel in the event of an accident.
- Avoid undue exposure to physiological and psychological stresses, which might cause errors leading to an accident.
- Provide suitable warning and cautionary notes in instruction for operation, assembly, maintenance and repair, and distinctive markings for personnel protection on hazardous components, equipment, and facilities.

Contractors who provide systems, sub-systems, or equipment that affect safe transit operations or passenger/employee safety are required to establish and maintain a system safety program in accordance with an approved system safety program plan. The contractor's approved system safety program plan must define objectives, tasks, procedures, schedules, and data submittals for the safety activities that will be performed by the contractor. The Capital Projects and Facilities Departments approve the contractor's system safety program plans, with concurrence of the SMS Advisory Committee.

Additionally, all personal protective equipment to be used by District personnel is reviewed and approved by the Safety Department in accordance with respiratory, hearing conservation, or other applicable safety standards. Chemicals and other potential hazardous materials being considered for purchase and use are also reviewed and approved by the Safety Department and environmental compliance.

### **Contractor Safety Coordination**

AC Transit has established a safety management practice protecting the safety and security of employees, contractors, and the public on project work activities. Construction safety is administered in accordance with the District's Capital Investment Program, contract specifications, and applicable federal, such as Occupational Safety and Health administration (OSHA), state and local safety requirements.

Project teams are committed to providing a safe and secure travel and work environment. Moreover, safety, accident prevention and security breach prevention must be incorporated into the performance of each task. Each Project team member is responsible for accident /security breach prevention reporting and for maintaining safety and security standards consistent with their position and organization function.

Through a cooperative team effort and systematic application of safety and security principles, projects will be designed and constructed to operate safely, securely, dependably, and efficiently. Industry best practices.

### Regulatory Compliance

AC Transit is committed to complying with all applicable local, state, and federal regulatory requirements, including the use and disposal of hazardous materials.

### Occupational Safety and Health Program

The District is committed to the safety and health of its employees and contractors who work within the District's bus service. Accordingly, AC Transit has developed an Occupational Safety and Health Program and Construction Safety Program. The programs emphasize the recognition, evaluation, and control of hazards arising from the occupational and construction project environments.

The Occupational Safety and Health Program is directed toward achieving a safe working environment for employees and minimizing the likelihood of occupational related injuries and illnesses. The program is based on and complies with applicable federal, state, and local safety codes and regulations. Procedures have been established for the control of operating hazards including, but not limited to, chemicals, noise, cut and abrasion injuries, and strain and sprain injuries.

On-the-job training of District employees is focused on hazard recognition and promotion of occupational safety and health practices. Attention is given to the need for, and proper use of, personal protective equipment and clothing as required by the work being performed. Routine comprehensive industrial hygiene surveys and industrial safety inspections are conducted to ensure that health and safety hazards in the workplace are identified and controlled.

### Alcohol and Substance Abuse Compliance

The Alcohol and Substance Abuse Compliance Unit (ASACU) is responsible for promoting an alcohol and drug free workplace and environment for the health and safety of its employees and patrons, ensuring that the AC Transit District's Alcohol and Substance Abuse Program complies with the Federal Transit Administration (FTA) and Department of Transportation (DOT) regulations and collective bargaining agreements. The ASACU helps accomplish our mission by focusing on the following goals:

- Working proactively to help prevent accidents, injuries, and fatalities resulting from the misuse of alcohol and use of prohibited drugs.
- The health and well-being of AC Transit employees
- Promoting a healthy and safe environment for employees and the public
- Compliance with FTA, DOT, Board policies, regulations, and contract language to mitigate risks, liability, and impact.

• Promoting understanding, awareness and well-functioning business partnerships with the administration and compliance with drug and alcohol testing

#### **Drug and Alcohol Policy**

It is the policy of the Alameda-Contra Costa Transit District to provide a drug and alcohol-free workplace and environment for all employees and patrons. A drug and alcohol-free workplace protect this agency's most valuable resources - its employees as well as the health and safety of the public.

#### **Administered Safety Tests**

The following tests will be administered under FTA guidelines for all safety- sensitive employees, and under this Policy, for all non-safety-sensitive employees:

		Safety-Sensitive	Non-Safety-Sensitive
(1)	Pre-employment	Х	Х
(2)	Transfer to safety- sensitive position	-	Х
(3)	Reasonable suspicion	Х	Х
(4)	Return to Duty	Х	Х
(5)	Post-accident	Х	-
(6)	Follow-up	Х	х
(7)	Random	Х	-
(8)	DOT Biennial	Х	-

### Hazardous Materials Program

AC Transit has established a comprehensive program for the control of hazardous materials used, including the disposal of waste materials. The District's Materials Department details the process for purchasing, receiving, and using hazardous materials within the AC Transit system. The Safety and Environmental Engineering Departments are responsible for reviewing all Safety Data Sheets (SDS) for chemicals and other potentially hazardous materials that are being considered for purchase and forward an approval for field use, including required protective measures. All employees who may use hazardous materials receive training from their Supervisors on the safe use and disposal of the products. Follow- up is conducted on the field use of approved products to ensure safe/proper handling methods are utilized.

Major laws and regulations that impact the Facility Maintenance Department are the Clean Air Act Amendments (CAAA) of 1990, Clean Water Act, Resource Conservation and Recovery Act (RCRA), and Environmental Protection Agency (EPA) regulations. The following activities apply to the program's regulatory compliance.

#### Hazardous Waste Management

Hazardous waste management is performed through implementation of proper procedures and internal inspections to ensure that all District facilities minimize and control the generation of hazardous waste and ensure disposal is in accordance with federal and state of California environmental regulations and local requirements.

#### Aboveground/Underground Storage Tank (AST/UST) Operations

In order to meet AST and UST operational and certification requirements, inspections and testing are conducted to verify all electronic monitoring equipment and tank components

are functioning properly and ensure that all record keeping, and training procedures are implemented and maintained properly.

### Storm Water Discharge Monitoring and Reporting

In accordance with California's Industrial General Permit for Storm Water Discharges, AC Transit regularly examines potential sources of pollutants in storm water discharges during monthly yard walks and inspections. We continue to address challenges with operating under benchmark levels through better training and education.

#### Wastewater Discharge Monitoring and Reporting

The wastewater regulatory compliance activities are tracked and reported regularly as part of our suite of environmental compliance requirements. Wastewater samples from all facilities are collected and analyzed throughout the year in accordance with permit requirements.

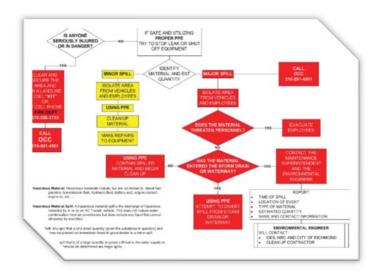
#### **Air Emissions Permitting Activities**

AC Transit maintains several air quality permits through the Bay Area Air Quality Management District (BAAQMD). The permits include those for five dispensing facilities and other emissions sources such as diesel-operated fire pumps, backup generators, and paint booths.

#### **Hazardous Materials Plans**

AC Transit maintains Hazardous Materials Business Plans and Spill Prevention, Control, and Countermeasure (SPCC) Plans, primarily for fuels and oils, and manages hazardous waste generated in accordance with federal, state, and local guidelines. The bulk of the waste generated is waste oils and coolant, oily rags, and other maintenance related items that typically get recycled. AC Transit conducts proper storage, labeling, and handling of these materials, and conducts frequent inspections and maintains employee training and records in accordance with regulatory requirements.

#### Example of Response Procedure



# Appendix 1: FTA 49 CFR Part 673 Requirements Matrix

Part 673	Citation	PTASP Section	
Subport A Conoral	§ 673.3 Policy	Safety Management Policy	
Subpart A- General	§ 673.5 Definitions	Acronyms and Definitions	
Subpart B- Safety Plans	§ 673.11 General	Plan Development, Approval, and Updates	
	requirements		
	§ 673.13 Certification of		
	compliance		
	§ 673.15 Coordination with		
	metropolitan, statewide,		
	and non-metropolitan		
	planning processes.		
		Safety Management Policy	
Subpart C- Safety Management Systems	§ 673.21 General	Safety Risk Management	
	requirements	Safety Assurance	
		Safety Promotion	
	§ 673.23 Safety	Safety Management Policy	
	management policy	Safety Management Folicy	
	§ 673.25 Safety risk	Safety Risk Management	
	management		
	§ 673.27 Safety assurance	Safety Assurance	
	§ 673.29 Safety promotion.	Safety Promotion	
Subpart D—Safety Plan	§ 673.31 Safety plan	Transit Agency Information	
Documentation and Recordkeeping	documentation		

## Appendix 2: Acronyms and Definitions

<u>Accident</u> means an Event that involves any of the following: A loss of life; a report of a serious injury to a person; a collision of public transportation vehicles; a runaway train; an evacuation for life safety reasons; or any derailment of a rail transit vehicle, at any location, at any time, whatever the cause.

<u>Accountable Executive</u> means a single, identifiable person who has ultimate responsibility for carrying out the Public Transportation Agency Safety Plan of a public transportation agency; responsibility for carrying out the agency's Transit Asset Management Plan; and control or direction over the human and capital resources needed to develop and maintain both the agency's Public Transportation Agency Safety Plan, in accordance with <u>49 U.S.C. 5329(d)</u>, and the agency's Transit Asset Management Plan in accordance with <u>49 U.S.C. 5329(d)</u>,

<u>Chief Safety Officer</u>: means an adequately trained individual who has responsibility for safety and reports directly to a transit agency's chief executive officer, general manager, president, or equivalent officer. A Chief Safety Officer may not serve in other operational or maintenance capacities, unless the Chief Safety Officer is employed by a transit agency that is a small public transportation provider as defined in this part, or a public transportation provider that does not operate a rail fixed guideway public transportation system.

<u>Equivalent Authority</u> means an entity that carries out duties similar to that of a Board of Directors, for a recipient or subrecipient of FTA funds under 49 U.S.C. Chapter 53, including sufficient authority to review and approve a recipient or subrecipient's Public Transportation Agency Safety Plan.

**Event** means any Accident, Incident, or Occurrence.

<u>FTA</u> means the Federal Transit Administration, an operating administration within the United States Department of Transportation.

<u>Hazard</u> means any real or potential condition that can cause injury, illness, or death; damage to or loss of the facilities, equipment, rolling stock, or infrastructure of a public transportation system; or damage to the environment.

<u>Incident</u> means an event that involves any of the following: A personal injury that is not a serious injury; one or more injuries requiring medical transport; or damage to facilities, equipment, rolling stock, or infrastructure that disrupts the operations of a transit agency.

<u>Investigation</u> means the process of determining the causal and contributing factors of an accident, incident, or hazard, for the purpose of preventing recurrence and mitigating risk.

<u>Occurrence</u> means an Event without any personal injury in which any damage to facilities, equipment, rolling stock, or infrastructure does not disrupt the operations of a transit agency.

<u>Operator of a public transportation system</u> means a provider of public transportation as defined under 49 U.S.C. 5302(14).

<u>Performance measure</u> means an expression based on a quantifiable indicator of performance or condition that is used to establish targets and to assess progress toward meeting the established targets.

<u>Performance target</u> means a quantifiable level of performance or condition, expressed as a value for the measure, to be achieved within a time period required by the Federal Transit Administration (FTA).

<u>Public Transportation Agency Safety Plan</u> means the documented comprehensive agency safety plan for a transit agency that is required by <u>49 U.S.C. 5329</u> and this part.

<u>Risk</u> means the composite of predicted severity and likelihood of the potential effect of a hazard.

**Risk mitigation** means a method or methods to eliminate or reduce the effects of hazards.

<u>Safety Assurance</u> means processes within a transit agency's Safety Management System that functions to ensure the implementation and effectiveness of safety risk mitigation, and to ensure that the transit agency meets or exceeds its safety objectives through the collection, analysis, and assessment of information.

<u>Safety Management Policy</u> means a transit agency's documented commitment to safety, which defines the transit agency's safety objectives and the accountabilities and responsibilities of its employees in regard to safety.

<u>Safety Management System (SMS)</u> means the formal, top-down, organization-wide approach to managing safety risk and assuring the effectiveness of a transit agency's safety risk mitigation. SMS includes systematic procedures, practices, and policies for managing risks and hazards.

Safety Management System (SMS) Executive means a Chief Safety Officer or an equivalent.

<u>Safety performance target</u> means a Performance Target related to safety management activities.

<u>Safety Promotion</u> means a combination of training and communication of safety information to support SMS as applied to the transit agency's public transportation system.

<u>Safety risk assessment</u> means the formal activity whereby a transit agency determines Safety Risk Management priorities by establishing the significance or value of its safety risks.

<u>Safety Risk Management</u> means a process within a transit agency's Public Transportation Agency Safety Plan for identifying hazards and analyzing, assessing, and mitigating safety risk.

**Serious injury** means any injury which:

- 1) Requires hospitalization for more than 48 hours, commencing within 7 days from the date of the injury was received.
- 2) Results in a fracture of any bone (except simple fractures of fingers, toes, or noses).
- 3) Causes severe hemorrhages, nerve, muscle, or tendon damage.
- 4) Involves any internal organ; or

5) Involves second- or third-degree burns, or any burns affecting more than 5 percent of the body surface.

<u>Small public transportation provider</u> means a recipient or subrecipient of Federal financial assistance under <u>49 U.S.C. 5307</u> that has one hundred (100) or fewer vehicles in peak revenue service and does not operate a rail fixed guideway public transportation system.

<u>State</u> means a State of the United States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, Guam, American Samoa, and the Virgin Islands.

<u>State of good repair</u> means the condition in which a capital asset is able to operate at a full level of performance.

<u>State Safety Oversight Agency</u> means an agency established by a State that meets the requirements and performs the functions specified by <u>49 U.S.C. 5329(e)</u> and the regulations set forth in 49 CFR part 674.

**Transit agency** means an operator of a public transportation system.

<u>Transit Asset Management Plan (TAM)</u> means the strategic and systematic practice of procuring, operating, inspecting, maintaining, rehabilitating, and replacing transit capital assets to manage their performance, risks, and costs over their life cycles, for the purpose of providing safe, cost-effective, and reliable public transportation, as required by 49 U.S.C. 5326 and 49 CFR part 625.