

San Francisco Bay Area Rapid Transit District

2150 Webster Street, P. O. Box 12688, Oakland, CA 94604-2688



BOARD MEETING AGENDA

The Board Meeting will be held in person with an option for public participation via teleconference. Please note that regular business is not expected to begin before 2:00 p.m., following Closed Session.

Thursday, March 9, 2023

1:00 PM

BART Board Room, 2150 Webster Street, 1st Floor, Oakland, CA 94612.

Zoom Link: <https://us06web.zoom.us/j/88315885053>

Board of Directors

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
2150 Webster Street, P.O. Box 12688, Oakland, CA 94604-2688

BOARD MEETING AGENDA

March 9, 2023

1:00 p.m.

A regular meeting of the Board of Directors will be held at 1:00 p.m. on Thursday, March 9, 2023, in the BART Board Room, 2150 Webster Street, 1st Floor, Oakland, California 94612. Please note that regular business is not expected to begin before 2:00 p.m., following Closed Session.

Please note that this meeting will be held in person in the BART Board Room, 2150 Webster Street, 1st Floor, Oakland, California 94612 with an option for public participation via teleconference. Face masks are strongly recommended on BART property, including the BART Board Room.

You may watch the Board Meeting live or archived at <https://bart.gov/boardtv>

Presentation and agenda materials will be available via Legistar at <https://bart.legistar.com>

You may attend the Board Meeting in person or join the Board Meeting via Zoom by calling 833-548-0282 and entering access code 883 1588 5053; logging in to Zoom.com and entering access code 883 1588 5053; or typing the following Zoom link into your web browser:
<https://us06web.zoom.us/j/88315885053>

Members of the public may address the Board of Directors regarding any matter on this agenda. If you wish to discuss a matter that is not on the agenda during a regular meeting, you may do so under Public Comment.

If you wish to make a public comment:

- 1) Submit written comments via email to board.meeting@bart.gov, using “public comment” as the subject line. Your comment will be provided to the Board and will become a permanent part of the file. Please submit your comments as far in advance as possible. Emailed comments must be received before 4:00 p.m. on March 8, 2023, in order to be included in the record.
- 2) Complete a “Request to Address the Board of Directors” form (available at the entrance to the Board Room) and give it to the District Secretary before the Item is considered by the Board.
- 3) Call 833-548-0282, enter access code 883 1588 5053, dial *9 to raise your hand when you wish to speak, and dial *6 to unmute when you are requested to speak; log in to Zoom.com, enter access code 883 1588 5053, and use the raise hand feature; or join the Board Meeting via the Zoom link (<https://us06web.zoom.us/j/88315885053>) and use the raise hand feature.

Public comment is limited to three (3) minutes per person.

Any action requiring more than a majority vote for passage will be so noted.

Items placed under “consent calendar” are considered routine and will be received, enacted, approved, or adopted by one motion unless a request for removal for discussion or explanation is received from a Director or from a member of the audience.

Please refrain from wearing scented products (perfume, cologne, after-shave, etc.) to these meetings, as there may be people in attendance susceptible to environmental illnesses.

BART provides services/accommodations upon request to persons with disabilities and individuals who are limited English proficient who wish to address BART Board matters. A request must be made within one and five days in advance of Board meetings, depending on the service requested. Please contact the Office of the District Secretary at 510-464-6083 for information.

Rules governing the participation of the public at meetings of the Board of Directors and Standing Committees are available for review on the District's website (<http://www.bart.gov/about/bod>).

Meeting notices and agendas are available at bart.legistar.com; via email (<https://cloud.info.bart.gov/signup>); or via regular mail upon request submitted to the District Secretary.

Complete agenda packets (in PDF format) are generally available for review at bart.legistar.com no later than 48 hours in advance of the meeting.

Please submit your requests to the District Secretary via email to BoardofDirectors@bart.gov; in person or U.S. mail at 2150 Webster Street, 10th Floor, Oakland, CA 94612; or telephone at 510-464-6083.

April B. A. Quintanilla
District Secretary

Regular Meeting of the

BOARD OF DIRECTORS

The purpose of the Board Meeting is to consider and take such action as the Board may desire in connection with:

1. CALL TO ORDER

- A. Roll Call.
- B. Pledge of Allegiance.
- C. Introduction of Special Guests.

2. CLOSED SESSION

A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS:

Property: Property (air rights) located at Ashby BART Station, 3100 Adeline Street, Berkeley 94703. APNs 53-1597-39-04 and 53-1703-009-00.

District Negotiators: Val Menotti, Chief Planning and Development Officer; Abigail Thorne-Lyman, Director of Real Estate and Property Development; Deb Castles, Principal Property Development Officer; Carli Paine, Group Manager of Transit-Oriented Development; Darin Smith, Economic and Planning Systems.

Negotiating Parties: San Francisco Bay Area Rapid Transit District and City of Berkeley

Under Negotiation: Price and Terms

Government Code Section: 54956.8

B. PUBLIC EMPLOYMENT

Title: Inspector General

Government Code Section: 54957

3. OPEN SESSION

- A. Announcements from Closed Session, if any.

4. REPORT OF THE BOARD PRESIDENT5. BOARD COMMITTEE REPORTS

(An opportunity for Committee Chairpersons to report out on the activities of Board Committees that have met since the last Board Meeting.)

6. CONSENT CALENDAR

- A. Approval of the Minutes of the Meeting of December 15, 2022.

Board requested to authorize.

Attachments: [Approval of Minutes of the Meeting of December 15, 2022](#)

- B. Amendment of Legal Services Agreement with Hanson Bridgett.

Board requested to authorize.

Attachments: [Amendment of Legal Services Agreement with Hanson Bridgett - EDD](#)

- C. Approval of BART's Updated Public Transportation Agency Safety Plan (PTASP).

Board requested to authorize and adopt.

Attachments: [Approval of BART's Updated Public Transportation Agency Safety Plan \(PTASP\) - EDD](#)
[Approval of BART's Updated Public Transportation Agency Safety Plan \(PTASP\) - Plan](#)

- D. Grant of Roadway Easements to the Cities of South San Francisco and San Bruno for Intersection Improvements by Lane Partners.

Board requested to authorize.

Attachments: [Grant of Roadway Easements - EDD](#)

7. GENERAL MANAGER'S REPORT

- A. Report of Activities, including Updates of Operational, Administrative, and Roll Call for Introductions Items.

8. PUBLIC COMMENT

(An opportunity for members of the public to address the Board of Directors on matters under their jurisdiction and not on the agenda. Public comment is limited to three (3) minutes per person.)

9. ADMINISTRATION ITEMS

Director Dufty, Chairperson

NO ITEMS.

10. ENGINEERING AND OPERATIONS ITEMS

Director Foley, Chairperson

NO ITEMS.

11. PLANNING, PUBLIC AFFAIRS, ACCESS, AND LEGISLATION ITEMS

Director Saltzman, Chairperson

- A. Transit-Oriented Development Program Update.

For information.

Attachments: [Transit-Oriented Development Program Update - Memo](#)
[Transit-Oriented Development Program Update - Presentation](#)

- B. Senate Bill 827 (Glazer) - BART Office of the Inspector General.

For information.

Attachments: [Senate Bill 827 \(Glazer\) - BART Office of the Inspector General - Memo](#)
[Senate Bill 827 \(Glazer\) - BART Office of the Inspector General - Bill Text](#)
[Senate Bill 827 \(Glazer\) - BART Office of the Inspector General - Presentation](#)

12. BOARD MATTERS

- A. Board Member Reports.

(Board member reports as required by Government Code Section 53232.3(d) are available through the Office of the District Secretary. An opportunity for Board members to report on their District activities and observations since last Board Meeting.)

- B. Roll Call for Introductions.

(An opportunity for Board members to introduce a matter for consideration at a future Committee or Board Meeting or to request District staff to prepare items or reports.)

- C. In Memoriam.

(An opportunity for Board members to introduce individuals to be commemorated.)

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

2150 Webster Street, P.O. Box 12688, Oakland, CA 94612-2688

Board of Directors
Minutes of the 1,923rd Meeting
December 15, 2022

A regular meeting of the Board of Directors was held on December 15, 2022, convening at 9:10 a.m., via teleconference and in the BART Board Room, 2150 Webster Street, 1st Floor, Oakland, California, pursuant to all necessary findings having been made by the Board of Directors of the San Francisco Bay Area Rapid Transit District (for itself as well as all subordinate legislative bodies) to continue remote public meetings in the manner contemplated under urgency legislation Assembly Bill No. 361. President Saltzman presided; April B. A. Quintanilla, District Secretary.

Directors Present in Oakland: Directors Ames, Dufty Foley, Li, Raburn, Simon, and Saltzman.

Directors Present via Teleconference: Directors Allen and McPartland.

Absent: None.

President Saltzman gave opening remarks and instructions regarding Public Comment.

President Saltzman announced that there was no report under Item 2, Report of the Board President.

There were no reports under Item 3, Board Committee Reports.

President Saltzman brought the matter of 2022 Holiday Toy Drive Recipient: Building Opportunities for Self-Sufficiency before the Board. President Saltzman introduced and gave remarks regarding the 2022 Holiday Toy Drive and Building Opportunities for Self-Sufficiency (BOSS), the 2022 Holiday Toy Drive recipient.

Donald Frazier, Chief Executive Officer of BOSS addressed the Board.

A photograph of the Board Members, BART staff, and representatives from BOSS was taken.

Consent Calendar items brought before the Board were:

1. Approval of Minutes of the Meeting of October 13, 2022.
2. Approval of Minutes of the Meetings of October 27, 2022 (Regular) and November 3, 2022 (Special).
3. Resolution to Continue Virtual Meetings During the Pandemic.

Director Raburn made the following motions as a unit. Director Dufty seconded the motions.

1. That the Minutes of the Meeting of October 13, 2022, be approved.
2. That the Minutes of the Meetings of October 27, 2022 (Regular) and November 3, 2022 (Special), be approved.
3. That Resolution No. 5548, In the Matter of Re-Authorizing the District's legislative and subordinate legislative bodies to utilize the provisions enacted by Assembly Bill (AB) 361 to meet remotely with teleconferenced meetings during a re-proclaimed emergency as authorized by law in accordance with Government Code Section 54953(e) and other applicable provisions of the Ralph M. Brown Act for an additional period of thirty (30) days from the adoption of this Resolution, be adopted.

President Saltzman called for Public Comment on the Consent Calendar. No comments were received.

The motions brought as a unit by Director Raburn and seconded by Director Dufty carried by unanimous roll call vote. Ayes: 9 – Directors Allen, Ames, Dufty, Foley, Li, McPartland, Raburn, Simon, and Saltzman. Noes: 0.

President Saltzman called for the General Manager's Report. Robert Powers, General Manager, recognized Paula Fraser, Assistant Chief Transportation Officer – Service Delivery, and Paula's retirement from the District after 42 years of service.

General Manager Powers presented Paula with a commemorative train to honor her service.

Paula Fraser addressed the Board.

Directors Dufty, Simon, Li, Raburn, Foley, Saltzman, Allen, and McPartland commended Paula's work and leadership and expressed gratitude for Paula's service to the District.

Aleta Dupree addressed the Board.

President Saltzman called for general Public Comment. Aleta Dupree addressed the Board.

Director Simon, Chairperson of the Administration Committee, had no report.

Director Dufty, Chairperson of the Engineering and Operations Committee, had no report.

Director Foley, Chairperson of the Planning, Public Affairs, Access, and Legislation Committee, had no report.

President Saltzman called for Board Member Reports, Roll Call for Introductions, and In Memoriam Requests.

Director Raburn reported that he had attended the South Hayward Joint Powers Access Board meeting and an event with UC Berkeley Planning students regarding the Link21 project.

Vice President Li reported that she had attended a luncheon with BART staff and the Nor Cal Carpenters

Union and a roundtable discussion with the City and County of San Francisco regarding safety; and given a presentation to the City and County of San Francisco's Youth Commission's Housing, Transportation and Land Use Committee.

Director Simon reported that she had attended the swearing-in ceremony for the new state legislature and various meetings with state legislators.

Director Ames reported that she had attended the South Hayward Joint Powers Access Board meeting and a trade school welding event at the BART Hayward Maintenance Complex.

Director Allen recognized the retirement of Keith Garcia, Master Police Officer and former President of the BART Police Officers' Association (BPOA), and Keith's 30 years of service to the District. Director Allen also congratulated Shane Reiss, Senior Police Officer, for his selection as the new President of the BPOA.

Director Dufty commended Keith's work and recognized his retirement from the District; reported on attending the discussion with the City and County of San Francisco regarding safety and various meetings with state legislators; and requested that the Meeting be adjourned in honor of Peter Gabel, law professor and community leader and advocate.

Director Foley congratulated Keith on his retirement from the District and Shane on his selection as the new President of the BPOA; and reported that he had attended the Pleasant Hill BART Leasing Joint Powers Authority Board meeting.

President Saltzman brought the matter of Election of Officers – President before the Board.

President Saltzman gave remarks about BART's accomplishments during 2022.

President Saltzman opened the floor for nominations for President and nominated Vice President Li for President of the Board of Directors. Nominations were closed.

President Saltzman moved that Vice President Li be elected Board President for 2023. Director Dufty seconded the motion.

Aleta Dupree addressed the Board.

The motion brought by President Saltzman and seconded by Director Dufty carried by unanimous roll call vote. Ayes: 9 – Directors Allen, Ames, Dufty, Foley, Li, McPartland, Raburn, Saltzman, and Simon. Noes: 0.

President Li thanked Director Saltzman for her leadership and gave remarks regarding 2023.

President Li presented Director Saltzman with a commemorative plaque to honor her leadership as the 2022 Board President.

President Li brought the matter of Election of Officers – Vice President before the Board and opened the floor for nominations for Vice President. Director Dufty nominated Director Foley for Vice President of the Board of Directors and moved that Director Foley be elected Board Vice President for 2023. Director Simon seconded the motion.

Director Allen made a substitute motion to elect Director Ames as Board Vice President for 2023 and commented on the history of Board leadership regarding District representation.

Director McPartland seconded Director Allen's substitute motion.

Director Allen commented on the importance of rotating Board leadership.

Nominations were closed.

Aleta Dupree addressed the Board.

The item was discussed, with the following highlights:

Director Ames commented on the rotation of Board leadership and addressing the fiscal cliff.

Director Foley commented on the importance of focusing on the customer experience and sustainable funding for transit.

Director Saltzman expressed support for Director Foley to be elected as Vice President.

Director McPartland commented on the history of the BART Board and constituents' representation on the Board and expressed support for Director Ames to be elected as Vice President.

Director Dufty commented on Director McPartland's comments.

The substitute motion brought by Director Allen and seconded by Director McPartland failed by roll call vote. Ayes: 3 – Directors Allen, Ames, and McPartland. Noes: 6 – Directors Dufty, Foley, Raburn, Saltzman, Simon, and Li.

The motion brought by Director Dufty and seconded by Director Simon carried by roll call vote. Ayes: 8 – Directors Ames, Dufty, Foley, McPartland, Raburn, Saltzman, Simon, and Li. Noes: 1 – Director Allen.

Vice President Foley gave remarks about future priorities.

President Li announced that the Board would enter into closed session under Item 12-A (Public Employment) of the Regular Meeting agenda, and that the Board would reconvene in open session upon conclusion of the closed session.

Aleta Dupree addressed the Board.

The Board Meeting recessed at approximately 10:52 a.m.

The Board reconvened in closed session at 11:10 a.m.

Directors Present in Oakland: Directors Ames, Dufty, Foley, Raburn, Saltzman, Simon, and Li.

Directors Present via Teleconference: Directors Allen and McPartland.

Absent: None.

The Board Meeting recessed at approximately 11:40 a.m.

The Board reconvened in open session at 11:43 a.m.

Directors Present in Oakland: Directors Ames, Raburn, Saltzman, Simon, and Li.

Directors Present via Teleconference: None.

Absent: Directors Allen, Dufty, Foley, and McPartland.

President Li announced that the Board had concluded its closed session under Item 12-A and that there was no announcement to be made.

The Meeting adjourned at 11:43 a.m. in honor of Peter Gabel.

April B. A. Quintanilla
District Secretary



EXECUTIVE DECISION DOCUMENT

GENERAL MANAGER APPROVAL: DocuSigned by: <i>Michael Jones</i> 47000790F2D7463...		GENERAL MANAGER ACTION REQ'D:		
DATE: 3/1/2023 3/2/2023		BOARD INITIATED ITEM: No		
Originator/Prepared by: Jeana Zelan Dept: Office of the General Counsel DocuSigned by: <i>Jeana Zelan</i> F8FD7B3A73E74E8... Signature/Date: 3/2/2023	General Counsel DocuSigned by: <i>Jeana Zelan</i> F8FD7B3A73E74E8... 3/2/2023 []	Controller/Treasurer DocuSigned by: <i>Chris Gan</i> EE11C8CEEEA04FD... 3/2/2023 []	District Secretary []	BARC DocuSigned by: <i>Pamela Herhold</i> 3BB24D65B8724F5... 3/2/2023 []

Amendment of Legal Services Agreement with Hanson Bridgett

PURPOSE:

To request authorization from the Board of Directors to add funds to a legal services agreement with Hanson Bridgett for representation in litigation related to the District's advertising content guidelines.

DISCUSSION:

The District maintains advertising content guidelines to establish uniform, viewpoint-neutral standards for the display of advertising within all BART facilities. In 2022, the District rejected a proposed advertisement for failure to comply with the guidelines. The advertiser filed a lawsuit against the District, and the Office of the General Counsel retained Hanson Bridgett to represent the District for an amount not to exceed \$99,000. Payments have reached the compensation limit, necessitating Board authorization to increase the amount of funding for this agreement.

FISCAL IMPACT:

Expenses are estimated not to exceed \$550,000 if this case proceeds through trial, and will be paid out of the Office of the General Counsel's existing FY23 budget (Cost Center 0201121, Account 681300). There is no anticipated impact on unprogrammed District reserves.

ALTERNATIVES:

The Board may elect to not authorize continuing representation by Hanson Bridgett in this litigation. The Office of the General Counsel would need to seek an alternative law firm for representation, which would incur additional expenses to transition the work.

RECOMMENDATION:

That the Board adopt the following motion:

MOTION:

That the Board authorizes the General Counsel to continue to utilize Hanson Bridgett for representation in litigation related to the District's advertising content guidelines.



EXECUTIVE DECISION DOCUMENT

GENERAL MANAGER APPROVAL: DocuSigned by: <i>Michael Jones</i> 47000790F2D7463...		GENERAL MANAGER ACTION REQ'D: Yes		
DATE: 2/2/2023		3/1/2023		
BOARD INITIATED ITEM: No				
Originator/Prepared by: Jeffrey Lau Dept: System Safety DocuSigned by: <i>Jeffrey Lau</i> C5F9A4C722234D3... Signature/Date: 2/24/2023	General Counsel DocuSigned by: <i>Jana Belan</i> F8FD7B3A73E74E8... 2/24/2023 []	Controller/Treasurer DocuSigned by: <i>Chris Gan</i> EE11C8CEEEA04FD... 2/24/2023 []	District Secretary []	BARC DocuSigned by: <i>Shane Edwards</i> 8128A2EB2F014F3... 2/27/2023 []

Approval of Updated BART Agency Safety Plan

PURPOSE:

Approve the BART Public Transportation Agency Safety Plan (PTASP) which was recently updated.

DISCUSSION:

As required by federal regulation 49 C.F.R. Part 673 and California Public Utilities Commission (CPUC) General Order 164, BART developed and issued a Public Transportation Agency Safety Plan (PTASP) in 2020. The PTASP, or the safety plan, is a document that describes the various safety management programs and processes that BART has in place to manage hazards and safety risks. The safety plan was approved by the Board on May 28, 2020, and formally approved by the CPUC on June 25, 2020. In 2021, the Bipartisan Infrastructure Law required public transportation agencies to establish a safety committee to approve the PTASP, among other responsibilities.

In response to this requirement, BART formed a new safety committee entitled Safety Management System (SMS) Joint Union Management Safety Committee in 2022, with equal representation from unions and management, pursuant to the Federal Transit Administration (FTA) guidance. The SMS Committee reviewed, discussed, and formally approved the revised PTASP in December 2022, meeting the FTA deadline of December 31, 2022. The revised PTASP includes the following updates: addition of the SMS Joint Union Management Safety Committee, the consolidation of eBART into BART operations as E-Line, revised organizational charts, and other editorial changes.

The revised safety plan was submitted to and reviewed by the CPUC. On February 24,

To approve the updated BART Agency Safety Plan

2023, BART obtained CPUC's preliminary approval of the safety plan.

Upon Board approval, staff will provide the revised safety plan to the CPUC for its final written approval.

FISCAL IMPACT:

Since all the programs and processes described in the PTASP are currently in place, there is no financial impact as a result of Board approval of this plan. This action is not anticipated to have any Fiscal Impact on the annual operating budget.

ALTERNATIVES:

The Board may elect not to approve the revised PTASP. However, this action is not recommended because such action will subject BART to regulatory enforcement action by the FTA and/or CPUC which could include withholding of federal funds for non-compliance with the FTA's Public Transportation Safety Program and 49 C.F.R. Part 673 .

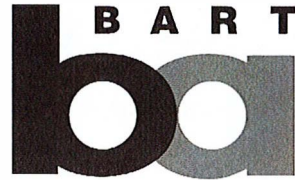
RECOMMENDATION:

It is recommended that the Board adopt the following motion:

MOTION:

The Board approves and adopts the BART Public Transportation Agency Safety Plan, Revision 3, dated January 1, 2023.

San Francisco Bay Area Rapid Transit District



Public Transportation Agency Safety Plan

Jeffrey Lau

Chief Safety Officer Submitted:

A blue ink signature of Jeffrey Lau, written over a horizontal line.

Shane Edwards

AGM Operations

Concur:

A blue ink signature of Shane Edwards, written over a horizontal line.

Robert Powers

General Manager

Approved:

A blue ink signature of Robert Powers, written over a horizontal line.

BART Board of Directors Approval Date:

January 1, 2023

Revision 3

Version Control			
Number	Date	Author	Comments
1	March 13, 2020	BART Safety & Security and TRA	
2	June 8, 2020	BART Safety & Security and TRA	Comments from CPUC and BOD addressed. Cover Page: Current Date (June 8) entered. Cover Page: May 28 Board meeting date added. Cover Page: Document renumbered to Rev. 2 Page 2: Version control list updated. Page 12: Section 2.3.3 updated to reflect that CSO has no other operational or maintenance responsibilities. Section 2.3.2 added Inspector General. Page 29: Due dates updated Page 31: Language modified to indicate that BART will also coordinate SPTs with the MTC (BART's MPO) and contact information included for main coordination point-of-contact. Page 36: Section 5.3.1 – Added objectives of ensuring payroll and finance functions and protecting safety of employees, patrons, and assets Page 42: Section 6.1.1 – Bullet list related to identification of operational hazards modified to remove “safety event statistics” and include “SSOA and FTA reports.” Page 54: Section 7.1.1 – Under M&E – Reliability Programs, title revised from EIC to RWP Page 109: Section 8.1.1 – Contractor Safety Training revised. Page 138: Added Appendix F – Board approval
3	January 1, 2023		Cover Page: Document renumbered to Rev. 3 Page 2: Version control list updated. Page 4: Updated Table of contents Changed eBART to E-Line throughout the document. Removed eBART COO throughout the document. Removed eBART Safety and Training Manager throughout the document. Page 9: Section 2.1 – Updated History Page 10: Section 2.2.1 – Added Santa Clara

			Page 11: Section 2.2.1 – Updated Stations Page 13: Section 2.3.3 – Updated PTASP revision Page 13: Section 2.3.4 – Updated SMS Manager Page 16: Section 2.3.10 – Deleted E-Line/OAC information and replaced with Chief of Police Page 18: Updated System Safety Org Chart Page 19: Updated System Safety Divisions Page 21: Updated the SMS Division Page 23: Section 2.4.2 – Removed E-Line Page 27: Section 3.2 – Revised Language Page 27: Section 3.2.1 – Changed Table Page 28: Section 3.3 – Revised Language Page 29: Section 4.0 – Revised Language and Changed MTC Contact Page 36: Section 5.3.1.4 – Added Fire Life Safety Page 36: Section 5.4 – Add SMS Manager Page 38: Section 5.6 – Added ADA Paratransit Page 40: Added SMS Safety Committee Page 40: Section 6.1.2 – Revised OAC SSRC Page 41: Section 6.2.1 – Removed E-Line Page 43: Table 6.4 – Removed E-Line Page 43: Section 6.2.2 – Removed E-Line Page 45: Table 6.8 – Added SMS Manager Page 46: Section 6.2.4 – Revised Language Page 46: Section 6.3 – Revised Language Page 50: Section 7.1.1 – Removed E-Line Page 55: Annual Audit Report – Removed E-Line Page 55: Section 7.1.2 – Removed E-Line section & replaced with OAC section Page 60: Section 7.2.2 – Added CSO Page 61: DMU Engineer Evaluations – Added Road Supervisor of Engines. Page 62: Operations Safety Compliance Program – Added Road Supervisor of Engines Page 64: Removed 7.2.5 E-Line Facilities and Equipment Page 68: Revised Table 7.2 Page 71: Section 7.3.2 – Added District for E-Line Page 72: Revised Language Page 73: Revised Language Page 74: Revised Language Page 75: Revised Language Page 77: Revised Section 7.4 to comply with CPUC requirements. Removed section 7.4.1 and section 7.4.2 Page 77: Section 7.5 – Revised Language Page 86: Section 7.8 – Revised Language Page 88: Section 8.1.1 – Removed E-line details
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			Page 89: Added required BIL language Page 90: Removed Table 8.2 E-Line certification Page 90: Removed E-Line Page 92: Removed SMS Training for CPUC finding and Removed E-Line Page 94: Removed E-Line Page 94: Revised Language Page 95: Section 8.3 – Removed E-Line Page 100: Inserted Updated Org Charts Page 113: Updated the SMS Card Images Page 120: Added SMS Committee Minutes
4			
5			

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1.0 Safety Management Policy Statement

The San Francisco Bay Area Rapid Transit District strives to provide safe, reliable, clean, quality transit service that increases mobility and accessibility, strengthens community and economic prosperity, and helps preserve the Bay Area's environment. Safety is the foundation upon which the District supports all functions including planning, design, construction, testing, maintenance, and operations of the rail transit system. To meet these goals, five safety objectives are established:

1. To avoid loss of life, reduce injury and minimize damage or property loss;
2. To administer and oversee safety assurance programs District-wide;
3. To instill an awareness of and to promote safety in all District employees and contractor personnel;
4. To provide for the identification and elimination or control of hazards through a systematic approach of auditing and analyzing the operational system and the work environment; and
5. To minimize hazards in new facilities by building safety into the design through adherence to applicable codes and standards, use of sound engineering judgment, and implementation of a detailed safety certification program.

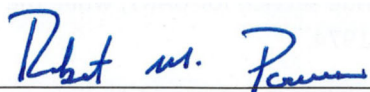
The System Safety Department is directed and empowered to develop, implement, and administer a comprehensive Public Transportation Agency Safety Plan (PTASP) across all three BART modes. The plan emphasizes preventive activities and responsibilities of each department to identify, control, and resolve hazards during design, development, and operational phases of transit service. In addition, where it is determined that unsafe conditions or practices exist, the Chief Safety Officer has the authority to order such conditions corrected or practices halted. This includes the interruption of revenue service, if conditions warrant.

Each department, regardless of mode, shall support the PTASP and cooperate in the achievement of the established goals and objectives.

Accountability for safety rests with each employee, supervisor, and manager; however, the General Manager accepts the ultimate accountability for the District's safety performance across all modes. All are responsible for meeting the safety requirements inherent to their positions. Individual employees must comply with the safety rules and procedures applicable to their work duties. Supervisors and managers must enforce safety standards applicable to their departments.

The System Safety Department will consult with other District departments in the achievement of established safety goals and objectives. It is the duty of each BART employee to cooperate with the System Safety Department and to provide that Department with any information requested to aid in any investigation, inspection or scheduled or unscheduled audit.

As required by 49 CFR Part 673, this plan, which encapsulates the District's commitment to continuously monitor, measure, and improve safety performance, has been approved by the Board of Directors and endorsed by the General Manager who also acts as the Accountable Executive.



Robert M. Powers, General Manager/Accountable Executive



Date

2.0 Transit Agency Information

The Bay Area Rapid Transit (BART) District Public Transportation Agency Safety Plan (PTASP) follows the requirements set forth by 49 CFR Part 673, wherein public transportation agencies receiving federal funds are required to create a PTASP based on the Safety Management System (SMS) approach. The Federal Transit Administration (FTA) defines SMS as:

“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.”

This plan succeeds the former System Safety Program Plan (SSPP) and therefore builds on the safety practices and activities detailed in the SSPP while incorporating the components of SMS, including a restructured approach to providing for Safety Management Policy, Safety Risk Management, Safety Assurance, and Safety Promotion. Moreover, this PTASP outlines the safety practices and principles for all of the District’s rail transit services.

While Part 673 requires development of a PTASP, 49 CFR Part 674 authorizes state safety oversight (SSO) of rail fixed guideway public transportation systems to review and approve the PTASP. 49 CFR Part 672 establishes requirements for safety related training for rail transit agencies, and 49 CFR Part 670 establishes requirements for a National Public Transportation Safety Plan, which guides the nationwide effort in managing the safety risks and safety hazards within the nation’s public transportation systems. It establishes safety performance measures described in this PTASP and serves as the Federal Transit Administration’s framework for implementation of SMS and improved safety for rail transit nationwide. Relevant requirements of 49 Parts 670, 672, 673, and 674 are included in the District PTASP. All parts, including the content of this PTASP, are required and overseen by the California Public Utilities Commission (CPUC) SSO agency.

2.1 History

A tax-funded rail transit system serving the San Francisco Bay Area was first conceptualized in 1947 as the Transbay Tube (TBT). Following the dissolution of the privately-owned Key System, which ran electrified streetcars across the Bay Area and on the lower deck of the Bay Bridge, the California State Legislature founded the BART District in 1958 to address its growing traffic congestion. The Legislature retained a firm of consulting engineers, Parsons-Brinckerhoff-Tudor-Bechtel (PBTB), between 1957 to 1962 to draft tentative routes for a 120 (+/-) mile system of rail in five bay area counties. In 1962, three of the five counties approved the construction of the 75 miles of the network within their jurisdiction. Engineering studies and design work began in 1963 and the first construction contracts began in 1964 for both aerial lines and the underwater TBT.

The District divided the 75 miles of lines and 34 passenger stations into 48 separate contracts with the largest being the TBT. The main link in the BART System is between downtown Oakland and San Francisco. Four BART lines serving the East Bay converge at the Oakland Wye and funnel into this main stem. September 11, 1972, marks the opening day of passenger revenue service for BART, while the first passenger-carrying trains to use the TBT opened later in September 1974. Between 1974 and 2014, the system grew from 75 miles to 120+ miles with the additions of the W-Line to Millbrae and Y-Line to SFO, also the L-Line to Pleasanton, extension of the C-Line to Pittsburg/Bay Point, and S-Line to Warm Springs.

On November 22, 2014, the District opened its second rail transit modality, the Oakland Airport Connector (OAC); a 3.2-mile spur extending from Coliseum Station to the Oakland International Airport Station. The line replaced the former AirBART shuttle bus service with a cable-drawn, driverless Automated People Mover (APM) operated by Doppelmayr Cable Car (DCC) under a 20-year Operations and Maintenance (O&M) contract.

The OAC project began in October 2010 when the District awarded Flatiron and Parsons (FPJV) and DCC a contract to design, build, operate, and maintain the APM system. DCC was awarded a portion of the design-build contract to design, manufacture, and supply the APM system and guideway.

On May 25, 2018, the District opened its third rail transit service, the East Contra Costa County Transit Project (E-Line) approximately seven years after construction began. E-Line represents an expansion of rail service into Eastern Contra Costa County. E-Line provides a cost-effective way to bring rail service to Antioch and the rest of the east Contra Costa County. E-Line provides East County with frequent, reliable, and high-quality rail service that connect the growing region of East Contra Costa County with areas served by BART. The extension uses Diesel Multiple Unit (DMU) rail technology to extend eastward from the existing BART system at the Pittsburg/Bay Point BART Station in the median of State Route 4 to Antioch. The project included vehicle procurement, modifications to the existing BART tail tracks at the Pittsburg/Bay Point Station, Transfer Platform construction at the Pittsburg Bay Point Station that interfaces with the existing BART system, approximately 10 miles of double track in the median of State Route 4 (SR4), a station in the median of SR4 at Railroad Avenue Interchange, a station in the median of SR4 at the Hillcrest Interchange, a parking lot, yard and a maintenance facility. Recently, BART extended into Santa Clara County with the Silicon Valley extension to Milpitas and Berryessa/San Jose North Stations.

2.2 System Description

2.2.1 BART

Scope of Transit Service

The District provides fully automated, high speed, urban commuter rail mass transportation for the people of the San Francisco Bay Area, serving the people of San Francisco, Contra Costa, San Mateo, Santa Clara, and Alameda Counties. There are five established routes comprising the heavy rail BART system: Richmond to Daly City/Millbrae, Fremont to Richmond, Fremont to Daly City, Pittsburg/Bay Point to SFO/Millbrae, and Dublin/Pleasanton to Daly City. The BART System typically operates from 5:00 A.M. to midnight Mondays through Fridays, 6:00 A.M. to midnight on Saturdays, and 8:00 A.M. to midnight on Sundays and Holidays. In some cases, BART service extends past midnight, with the schedule for the last train beginning at around midnight.

Physical Plant

Structures

The BART rail alignment follows established travel corridors. The current operating system consists of approximately 131 miles of double track. This track is comprised of approximately 69 miles of at-grade exclusive right-of-way, 33 miles of aerial structure, 29 miles of underground construction, and 4.75 miles of underwater tube linking San Francisco with Oakland. All grade-level right-of-way are fenced. All trackway includes an electrified third rail approximately 12" above the running rails.

The underground trackways include two major tunnels, one through the Berkeley Hills and one under the San Francisco Bay. The Berkeley Hills Tunnel is approximately 3.5 miles long, and consists of two separate bores, connected with cross passages. The Transbay Tube is approximately 4.75 miles long and consists of two trackways with a center gallery. The TBT is constructed of 330 foot sections which were sunk to the bottom of the bay and connected. Each of the 330 foot sections includes a door leading from the gallery to the trackway.

The underground and underwater rights-of-way are provided with wet standpipe systems for fire suppression. These line sections are also provided with communications equipment for the express purpose of emergency response.

There are crossovers and/or pocket tracks at various locations to permit turn backs, single tracking or storage. They are spaced so that 20-minute service can be maintained in each direction between most crossovers using only one track. Trains can be operated in alternate directions under fully automatic train control.

Stations

There are 50 passenger stations on the System: 19 are in Alameda County, 8 in San Francisco, 11 in Contra Costa County, 6 in San Mateo County, and 2 in Santa Clara County. Of those stations, 15 are aerial, 16 subway, and 19 are at grade.

Stations, except the E-Line Pittsburgh Center station, are staffed with Station Agents who provide assistance in system usage and directional information to patrons as well as emergency service support. In addition, they monitor station facilities for station maintenance and patron safety.

Several of the stations also serve as inter-modal connection points, with major transfer points with locally operated bus systems. Four downtown San Francisco stations include underground platforms for the San Francisco Municipal Transportation Agency light-rail vehicles. Local bus companies, Caltrain and Amtrak trains, and ferries provide convenient commuting for BART patrons to and from all stations.

Vehicles

BART's existing fleet of 669 heavy-rail vehicles began operation in 1972 when the service began. BART trains can vary in train length depending on operational decisions for needed capacity. BART is currently replacing the existing fleet with over 775 new "Fleet of the Future" cars, with introduction of some cars into revenue service, with the remainder of the order to enter service in the years to come.

2.2.2 E-Line

Scope of Transit Services

BART service on the Concord line currently consists of one route, typically with a 15-minute base service, Monday through Friday, and a 20-minute service evenings and weekends. E-Line trains are scheduled to meet all BART base trains at the Transfer Platform that is located approximately 2,000 feet east of Pittsburg Bay Point Station. All passenger transfers between E-Line and BART will take place via the Transfer Platform. Service to the Pittsburg Bay Point Station currently operates weekdays between 5:00 A.M. and 1:30 A.M. the following day, Saturday between 6:00 A.M. and 1:30 A.M. into Sunday, and Sunday between 8:00 A.M. and 1:20 A.M. into Monday.

Physical Plant

E-Line Phase I utilizes Diesel Multiple Unit (DMU) trains on 10 miles of standard gauge double track, in the median of SR4, to provide connecting rail service to BART. These tracks are separate from and incompatible with the existing BART system. BART riders can transfer to the E-Line system at the Transfer Platform east of Pittsburg/Bay Point Station to either Pittsburg Center or Antioch Stations, all of which are integrated into the existing BART fare system. The Transfer Platform is located at Pittsburg Bay Point Station, which interfaces with the existing BART system; the remaining system includes a station at the Railroad Avenue Interchange (Pittsburg City Center Station); a station in the median of SR4 at the Hillcrest Interchange (Antioch Station); and a parking lot, yard, and maintenance facility east of the Hillcrest interchange and north of the SR4 Right-of-Way.

The E-Line Maintenance and Operation facility is located in Antioch, CA. All operational and maintenance functions are located at this facility, including the control center, operations, systems and vehicle maintenance, fueling, train washing, train storage, procurement, parts storage, administration, and safety.

2.2.3 OAC

Scope of Transit Services

The system consists of four three-car trains operating in a pinched loop configuration on two separate lanes between BART's Coliseum Station and the Oakland International Airport Station.

Physical Plant

The automated people mover (APM) system is a fully automated driverless transportation system operating along a 3.2-mile, partially elevated, partially at-grade, partially below grade, dual side guideway providing a comfortable and reliable link between the Airport Station and Coliseum Station. The APM system operates with up to four 3-car trains. The elevated structure is of a tubular welded steel truss construction. The ground-level structure is located in front of the Oakland Airport runways. The subway structure is under Doolittle road.

Each station consists of a single-sided passenger boarding platform with a barrier wall and automatic platform door system separating the passenger platform from the guideway tracks. Near the mid-point of the end stations is the maintenance and storage facility, or Wheelhouse, which contains the Central Control Room, the ropeway drive machinery, and provisions for trains to be stored off the mainline for maintenance.

2.3 Key Agency Leadership and SMS Responsibilities

To ensure that rail operations are conducted in the safest manner possible, transit system personnel have distinct roles and carry out specific responsibilities in providing for on-going safety in rail transit operations and maintenance activities. These responsibilities and roles are summarized in this chapter.

2.3.1 General Manager / Accountable Executive

The General Manager is charged with the responsibility of administering the operating and business affairs of the District consistent with policies set by the Board of Directors, hiring Department Managers and ensuring that they carry out plans to further the District safety goals and objectives. As the Accountable Executive, the General Manager accepts the ultimate accountability for the District's safety performance. Additionally, he or she is ultimately responsible for carrying out the District's PTASP; has

control and direction over the human and capital resources needed to develop and maintain both the District's PTASP and transit asset management plan; and ensures action is taken, as necessary, to address substandard performance in the SMS.

The General Manager's responsibilities include, though are not limited to, the following:

- Administering the operating and business affairs of the District consistent with policies set by the Board of Directors;
- Hiring Department Managers and ensuring that they carry out plans to further the District goals and objectives;
- Approving and signing the PTASP and any revisions following document review and acceptance by the appropriate departments;
- Communicating with the Chief Safety Officer on the District's safety goals and objectives, remaining informed of their levels of attainment and of any extraordinary safety matters that may have significant District impact;
- Ensuring that funding is prioritized for needs having a safety impact, in accordance with SMS;
- Receiving investigation reports for a major accident/incident;
- Approving the Emergency Operations Plan;
- Directing the Chief Safety Officer's administration of the Internal Safety and Security Audit Program;
- Submitting a formal letter of certification for the annual internal safety and security audit (ISSA) report to CPUC, indicating that the District is in compliance with its PTASP; and
- Identifying the activities that District will take to achieve compliance if findings from its internal safety and security audits indicate that the District is not in compliance with its PTASP.

In accordance with 49 CFR Parts 673 and 674 requirements, the General Manager is the District's Accountable Executive. Though he/she delegates specific responsibility, the ultimate accountability for the safety performance of BART, E-Line, and OAC rests with the Accountable Executive. Therefore, the General Manager/Accountable Executive ensures action is taken, as necessary, to address any substandard performance of the District Safety Management System (SMS) as outlined in the PTASP.

2.3.2 Board of Directors

The District is governed by nine elected representatives who make up the District's Board of Directors. The board members are elected to four-year terms of office by a vote within the nine established BART districts of the Bay Area. They are charged with establishing District policy; hiring the General Manager, Controller/Treasurer, General Counsel, District Secretary, Independent Police Auditor, and Inspector General; and authorizing the expenditure of funds. The Board of Directors will approve this PTASP annually.

2.3.3 Chief Safety Officer

The Chief Safety Officer (CSO) has the authority and responsibility for day-to-day SMS implementation and operation for all three District rail transit modalities and does not serve in any other operational or maintenance capacities. The CSO must be adequately trained in accordance with Federal and State requirements for safety officers/officials. The CSO reports directly to the General Manager/Accountable Executive. The CSO's responsibilities include, though are not limited to, the following:

- Approving the PTASP revisions
- Administering the internal safety and security audit program for implementation of all four SMS components
- Ensuring BART complies with all CPUC State Safety Oversight (SSO) and FTA safety requirements
- Administering and communicating District safety policy
- Developing, approving, controlling, and distributing the District OR&P Manual and Operating Bulletins
- Reviewing and approving the emergency preparedness plan materials, including the System Security Plan and the Emergency Operations Plan
- Halting any conditions or practices deemed unsafe by System Safety
- Providing the General Manager with the District's safety goals and objectives and keeping him/her informed of their levels of attainment and of any extraordinary safety matters which may have significant District impact
- Placing safety issues on the agenda for the weekly Operations Staff meeting for discussion and action
- Overseeing the review of operational reports and data for conditions that could result in serious injuries or significant property damage, then reporting all *unacceptable* hazards to CPUC staff within 2 hours of making that determination
- Completing and submitting the Safety and Security Certification Verification Report (SSCVR) for all major projects to the CPUC at least 21 calendar days prior to the start of service
- Receiving notification from the Operations Control Center of accidents that could meet the thresholds listed in PTASP Section 7.4

2.3.4 SMS Manager

The SMS Manager focuses on the ongoing development of a mature safety management system. As BART transitions from the system safety approach to the more proactive, formalized, and coordinated SMS approach, the SMS Manager is charged with transitioning existing processes so that they are more effective in carrying out the SMS framework that the District has established. The SMS Manager works with staff at all levels of the organization in the establishment of advanced safety management systems that leverage existing practices and introduce new means of managing risk, assuring safety, and communicating safety information District-wide. The SMS Manager will also perform the PTASP annual review and collaborate with department stakeholders to perform revisions when required. In addition, the SMS Manager will provide safety oversight for the OAC.

2.3.5 Assistant General Manager, Operations

The Assistant General Manager, Operations, provides strategic leadership and direction in the execution of goals related to the Office of Operations. He or she reports directly to the General Manager. Responsibilities include, but are not limited to, the following:

- Assuming full management responsibility for system operations and maintenance, including employee and public safety
- Revisiting and reviewing this PTASP
- Selecting, training, and evaluating personnel as well as working with employees to correct deficiencies, and implement discipline or termination procedures

- Monitoring developments and legislation related to areas of responsibility and evaluating the impact on District operations
 - Maintaining communication with other government agencies to coordinate regional issues and to serve as a liaison to external agencies
- Serve in the absence of the General Manager

2.3.6 Assistant General Manager, Design and Construction

The Assistant General Manager, Design and Construction, provides leadership and direction related to the activities and operations associated with the safety of system-wide construction and engineering projects. He or she reports directly to the General Manager. Responsibilities include, but are not limited to, the following:

- Training and evaluating personnel as well as working with employees to correct deficiencies, and implement discipline or termination procedures
- Establishing appropriate service and staffing levels; monitoring and evaluating the efficiency, effectiveness, and safety of delivery methods and procedures
- Assessing and monitoring workloads, administrative systems, and support systems to identify opportunities for improvement
- Overseeing the design, development, testing, and procurement of capital projects
- Responding to and resolving difficult and sensitive citizen inquiries and complaints

2.3.7 Chief Transportation Officer

The Chief Transportation Officer manages and oversees, through subordinate managers and supervisors, all operations and activities related to movement and control of railed vehicles throughout the system, the operation of stations, bus service from outside agencies, and operational support activities. He or she reports to the AGM, Operations. Safety-related responsibilities include, but are not limited to, the following:

- Planning, directing, and managing all operations and activities related to the safe movement and control of rail vehicles, the operation of stations, bus service from outside agencies, and operational support services
- Recommending and administering policies and procedures for all department services
- Establishing appropriate service and staffing levels; monitoring and evaluating the efficiency, effectiveness, and safety of delivery methods and procedures
- Monitoring developments and legislation related to areas of responsibility and evaluates the impact on District operations

2.3.8 Chief Mechanical Officer

The Chief Mechanical Officer manages, through subordinate managers and supervisors, all activities and operations of the Rolling Stock and Shops Department including comprehensive rail vehicle fleet and component maintenance, vehicle engineering, administration quality assurance, and new vehicle procurement including the maintenance control, quality assurance, and warranty administration of vehicles. He or she reports to the AGM, Operations. Safety-related responsibilities include, but are not limited to, the following:

- Planning, directing, managing, and overseeing all operations and activities of the Rolling Stock and Shops Department related to the maintenance control, quality assurance, safety, and warranty administration of vehicles
- Establishing appropriate service and staffing levels; monitoring and evaluating the efficiency, effectiveness, and safety of delivery methods and procedures
- Assessing and monitoring workloads, administrative systems, and support systems to identify opportunities for improvement
- Overseeing vehicle maintenance and directing, monitoring, and participating in the preparation of reports on vehicle maintenance and reviewing of findings
- Training and evaluating personnel as well as working with employees to correct deficiencies, and implement discipline or termination procedures

2.3.9 Chief Maintenance and Engineering Officer

The Chief Maintenance and Engineering Officer plans, directs, manages, and oversees the activities and operations of the Maintenance and Engineering Department project and programs. He or she reports to the AGM, Operations. Safety responsibilities include, but are not limited to, the following:

- Assuming full management responsibility for all departmental maintenance and engineering services and activities including research and development, architectural and engineering, track and structures, non-revenue vehicles, power and mechanical, and system maintenance, design, and construction projects and programs
- Establishing appropriate service and staffing levels; monitoring and evaluating the efficiency, effectiveness, and safety of delivery methods and procedures
- Providing administrative direction for the maintenance, development, design, modification and construction of facilities, as well as the acquisition and modification of equipment
- Reviewing and evaluating work methods and procedures
- Meeting with staff to identify and resolve problems
- Assessing and monitoring workloads, administrative systems, and support systems to identify opportunities for improvement
- Planning, organizing, assigning, administering, directing, reviewing, and evaluating departmental programs and activities related to the improvement of facilities and equipment
- Monitoring developments and legislation related to areas of responsibility and evaluates the impact on District operations
- Training and evaluating personnel as well as working with employees to correct deficiencies, and implement discipline or termination procedures

2.3.10 BART Chief of Police

The BART Police Department Chief plays a critical role in the day-to-day safety and security of patrons and passengers. The ultimate goal of the BART Police Department (BPD) and its Chief of Police is to ensure riders feel safe on District property by preventing and responding to crime. BPD responsibilities can be found in under *Safety Responsibilities of Other Departments* in Section 2.4.1. The Chief's responsibilities include providing recommendations for revision to the District Emergency Operations Plan, participating in emergency preparedness drills and exercises, and presiding over criminal safety events occurring on BART property.

2.4 Departmental Safety Responsibility

Key operations and maintenance staff in each rail mode implement the agency's SMS, overseen by management and the System Safety Department. BART and OAC each have different internal system safety programs and lines of communication but both interface with the BART CSO, who is ultimately responsible for safety of all modes under the General Manager. BART's safety program is overseen and implemented by the full BART System Safety Department staff. OAC's safety programs are overseen by the SMS Manager and communicated to the BART CSO via established means and methods of coordination and communication. Details of each mode's safety program are outlined below.

2.4.1 BART

Lines of Authority for Safety

The System Safety Department is the focal point of all BART safety-related activities. Where safety matters involve two or more departments, the System Safety Department coordinates the efforts. This coordination may include review or preparation of rules and procedures, participation in committee discussions, auditing of the department Safety Programs and review of safety training curriculum. This methodology ensures free information flow and resolves conflict in safety-related documents prepared by more than one department.

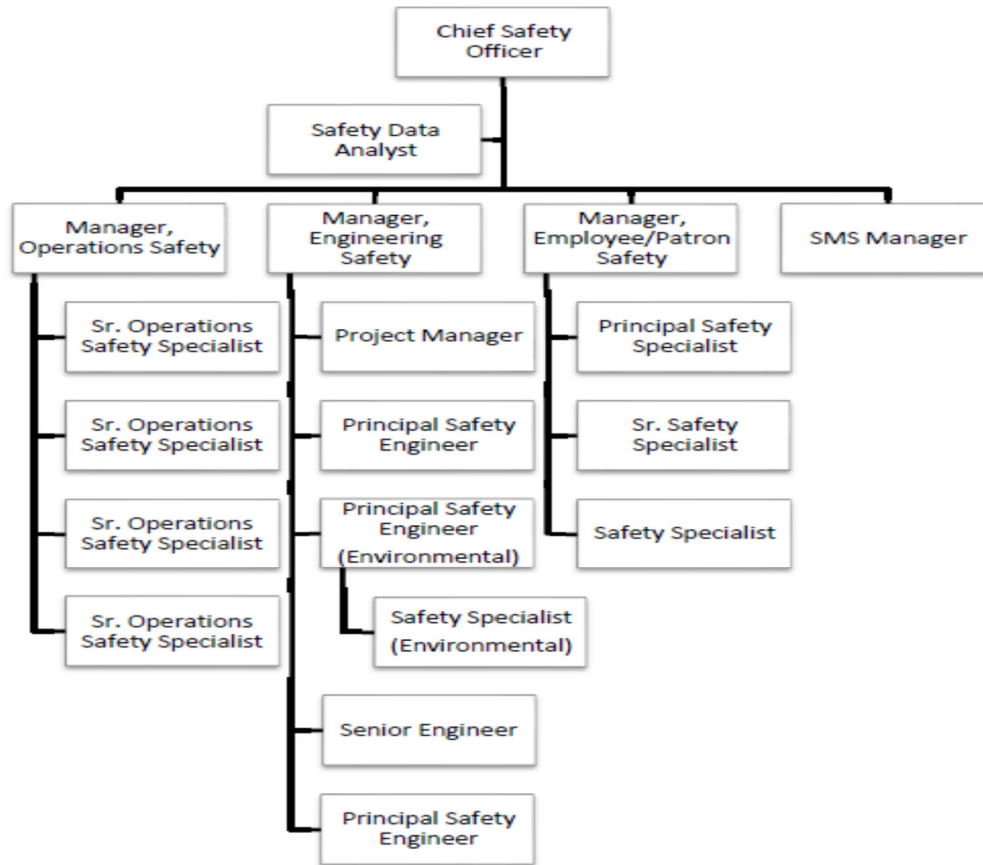
System Safety staff has the authority to work with other BART departments and executive leadership to receive information, identify safety concerns, conduct internal reviews and inspections, develop recommendations and corrective action plans to address safety concerns, track and verify the implementation of recommendations and corrective action plans, and report findings to executive management.

The System Safety Department is organized as a matrix management structure. Projects are assigned to individual Safety Engineers or Safety Specialists who work on the project with other members of the department, other BART employees, or consultants to ensure that the project's safety-related issues are addressed by individuals with adequate technical skills. To facilitate a matrix management-based organization; employees are selected with a wide range of primary professional skills ranging from engineering, rail operations, environmental protection, and industrial safety and hygiene. With the abilities possessed in their primary areas of specialization and secondary skills developed in cross training with the other members of the staff, they are expected to successfully perform their day-to-day tasks.

The Chief Safety Officer and System Safety division managers meet on a biweekly basis. The purpose of the biweekly meeting is to discuss all critical and ongoing safety issues, as well as compliance with the safety management system requirements outlined in the PTASP and supporting documentation. Each Manager provides updates on his/her areas of responsibility, including status of inspections, investigations, and corrective actions. BART is further structuring this meeting to incorporate ongoing safety data analysis and performance measurement. The System Safety Department uses this meeting as a focal point for its efforts and to develop consistent messages for its participation in departmental meetings District-wide.

Figure 1.4: System Safety Department Organization Chart

SYSTEM SAFETY DEPARTMENT ORG CHART



The System Safety Department is composed of four divisions: 1) Rail Operations Safety Division, 2) Engineering Safety & Environmental Division, 3) Employee/Patron Safety Division, 4) SMS Division. In 2019, BART established the Fire Life Safety Department, whose primary function is to establish a comprehensive and coordinated program to oversee a wide range of fire life safety programs described on the following pages. Currently, the Fire Life Safety Department is led by a Director who works in close coordination with the System Safety Department. Like the System Safety Department, the Fire Life Safety Department includes a direct line of reporting to the General Manager.

As BART undertakes efforts to implement its SMS, each System Safety division will update and enhance its work activities and responsibilities to align with the four elements of SMS, as Safety Management Policy, Risk Management, Assurance, and Promotion are all identified as components of the effective implementation of their divisional duties.

Primary responsibilities of the Rail Operations Safety Division include the following:

- Implement the District's System Safety Program as it relates to Operations Safety

- Oversee the Operating Rules and Procedures manual and Roadway Worker Protection rulebook development and revision to ensure safety is appropriately addressed
- Review and investigate operational accidents, safety incidents, and safety complaints for cause and corrective action
- Manage the implementation and maintenance of the PTASP
- Report accident data to CPUC and FTA as required by regulations
- Conduct Internal Safety Audits of Rail Operations Departments and facilitate the CPUC Triennial Audit as required by regulations
- Maintain the District's ability to respond to emergency/disaster conditions
- Administer the Operations Safety Compliance Program
- Support activities coordinated by the Fire Life Safety Department with fire departments
- Support Roadway Worker Protection (RWP) Program compliance

Primary responsibilities of the Engineering Safety & Environmental Division include the following:

- Oversee the safety of engineering construction projects while keeping the engineering safety-related criteria, plans, and fire/life safety code requirements current
- Maintain the Department's PTASP
- Review BART Engineering Change Orders
- Review District Work Permit applications for safety impact
- Facilitate BART's Emergency Exiting Study Program and conduct station exiting calculations
- Provide liaison between consultants, District engineers, and the Fire Life Safety Departments
- Review planned projects and identify those that require safety certification
- Review Contractor Site-Specific Work Plans and District Interim Operating Plans from a safety perspective
- Assist with the development of the Safety and Security Certification Plan
- Facilitate CPUC oversight of the safety certification program by reviewing the safety certification checklists, conducting safety certification audits, witnessing safety testing, conducting field inspections, and reviewing safety records
- Facilitate CPUC staff oversight of BART design and construction projects
- As a part of continuous improvement efforts, the Engineering Safety Division annually creates and provides a Top 10 list of safety concerning assets across the District to Maintenance and Engineering (M&E). These assets are documented in the M&E Risk Register along with other assets and reviewed by the Engineering and Maintenance departments. The final Risk Register results are provided to System Safety for their use and published on the M&E Kiosk page as part of an annual update process. Engineering Safety will provide assistance to M&E as requested on this effort
- Support compliance with District Facility Environmental Permits and Plans
- Coordinate contracted environmental services agreements, i.e. General Environmental Services Contracts
- Administer the Hazardous Materials & Waste Management Program
- Administer the Spill Prevention Control & Countermeasure Plan
- Administer the Underground Storage Tank Compliance Program
- Support engineering and construction projects with applicable environmental compliance requirements
- Review proposed environmental regulations for potential impacts to BART operations

- Represent organization as subject matter experts for environmental regulators
- Investigate environmental incidents and develop action plans
- Educate employees on environmental programs and policies

Primary responsibilities of the Employee/Patron Safety Division include the following:

- Chair the Joint Union/Management Health and Safety Committee and facilitate resolution of issues
- Support BART departments in maintaining a safe and healthful workplace
- Track Cal/OSHA citations
- Administer Facilities Emergency Evacuation Program
- Review and investigate employee/patron accidents, illnesses, safety claims and complaints for cause and corrective action
- Conduct Safety Notice reviews and investigations
- Inspect station and shop waste disposal areas
- Maintain and implement the District's Injury and Illness Prevention Program
- Administer Industrial Hygiene Program
- Administer Ergonomics Program
- Administer Hearing Protection Program
- Perform facility and equipment inspections to ensure compliance with the California Department of Industrial relations Division of Occupational Safety and Healthy (Cal/OSHA) safety regulations
- Complete Cal/OSHA Injury and Illness 300 Log
- Provide statistical analysis of patron/employee injuries/accidents, and operational incidents
- Support implementation of the Hazardous Materials Management Program, including the handling, storage, inspections, and reporting of hazardous materials, Hazardous Material Business Plans (HMBPs), SDS sheets, Hazard Communication and training
- Administer the District's Bloodborne Pathogens Control Plan

Primary responsibilities of the SMS Division include the following:

- PTASP
- Employee Safety Reporting Program
- Safety Dashboard
- OAC Safety Oversight

System Safety employs various methodologies in performing the safety tasks in order to achieve a proactive approach to safety. These include but are not limited to the following: data collection and analysis, hazard management and resolution, periodic inspections/compliance checks and internal safety and security audits, as described throughout the four SMS components in this PTASP.

Safety Responsibilities of Other Departments

The safety responsibilities of the other BART departments are embedded in their core duties for assuring a reliable and efficient system. Inspection and maintenance programs are grounded in the assurance of safe operations. Outlined below is a brief description of the safety responsibilities and tasks of the following key departments.

The Transportation Department is charged with transporting the District's customers safely, efficiently, and reliably while providing an aesthetically pleasing station environment staffed by service-oriented

personnel. The Transportation Department is responsible for ensuring that all train and station operations, control center operations, and supervision thereof are staffed and trained at appropriate levels to ensure the safe and reliable delivery of service. The Transportation Department is responsible for conducting rules compliance checks and tracking and evaluating operating performance for issues that affect the safety of the system.

The Rolling Stock and Shops Department is responsible for the following:

- Perform preventive maintenance to ensure the safety and reliability of the fleet and systems.
- Support daily rail operations.
- Respond to unscheduled maintenance demands.
- Maintain standards for heavy and post-accident repair work.
- Inspect scheduled and unscheduled maintenance work and incoming new and refurbished components to ensure integrity of maintenance programs and vehicle operations.
- Clean revenue vehicles (interior and exterior).
- Clean shops/yards, equipment, office buildings and towers.

The Maintenance and Engineering Department is responsible for the following:

- Developing and administering maintenance programs for BART mechanical equipment and systems to ensure their safety and reliability;
- Maintaining all electrical and mechanical equipment throughout the system;
- Maintaining the District's automotive and heavy rail maintenance equipment fleet;
- Maintaining the District's train control equipment;
- Maintaining the District's track and structures;
- Maintaining and inspect all District fire protection and suppression equipment;
- Maintaining automatic fare collection (AFC) equipment;
- Maintaining communications equipment;
- Scheduling and performing preventive maintenance for AFC, communications equipment, destination signs, and maintenance vehicle detection devices (MVDD);
- Providing engineering (civil/structural, electrical, mechanical, construction management, train control, communications, fare collection engineering and computer systems) design and support for Basic, Expansion, Access, and Extensions Projects;
- Researching and developing new technologies to improve operational efficiency;
- Providing cost engineering, financial planning, scheduling, and program control for Engineering Departments; and
- Providing design, drafting, graphics, technical drawings and configuration control for all technical documents in the District.

The BART Police Department is responsible for the following:

- Responding to emergency and non-emergency calls for service;
- Providing uniformed officer patrols and K-9 units;
- Conducting criminal investigations, target criminal activity;
- Providing parking control;
- Providing security for cash handling and collection crews;

- Regulating access to critical infrastructure and sensitive security information and facilities;
- Interfacing with the FBI, TSA, DHS, and DOJ on all security-related matters;
- Conducting threat and vulnerability assessments; and
- Implementing threat mitigation strategies.

The Fire Life Safety Department is responsible for the following:

- Coordinating and conducting trainings, familiarization programs, tabletop exercises, and drills with Fire Departments;
- Coordinating fire-related safety drills with over 20 different fire departments and authorities including San Francisco Fire Department and Oakland Fire Department, BART Police, Alameda County Sheriff's Department, TSA, the Port of Oakland, and other emergency first responder agencies throughout the District;
- Inspecting District facilities for compliance with fire/life safety codes;
- Overseeing and chairing the Fire Liaison Committee (FLC) and the Fire Life Safety Committee (FLSC);
- Providing subject matter expertise for fire event investigations;
- Conducting annual fire/life safety inspections of all BART and E-Line departments; and
- Ensuring that fire/life safety activities are appropriately administered in accordance with BART contractual and regulatory requirements for the OAC

Interfaces within District Organization Structure

The System Safety Department interfaces and communicates with most of the District's departments. Most of the System Safety Department primary activity is conducted with the operations and maintenance departments.

Appendix A includes BART organization charts that demonstrate the interfaces within the District.

Listed below are the primary BART departments which interface with System Safety Department staff:

- Office of General Manager
- BART Police
- External Affairs
- Fire Life Safety
- Maintenance and Engineering
- Operations Planning
- Design & Construction
- Planning & Development
- Procurement
- Rolling Stock and Shops
- Transportation
- Human Resources
- Labor Relations

2.4.2 OAC

Lines of Authority for Safety

System Safety staff members have the authority to work with all OAC personnel to receive information, identify safety concerns, conduct internal reviews and inspections, develop recommendations and corrective action plans to address safety concerns, track and verify the implementation of recommendations and corrective action plans, and to report findings to executive management.

The SMS Manager is the focal point of all OAC safety-related activities. Where safety matters involve two or more departments, the SMS Manager coordinates the efforts. This coordination may include review or preparation of rules and procedures, and participation in committee discussions. This methodology ensures free information flow and resolves conflict in safety-related documents prepared by more than one department.

The SMS Manager works directly with BART oversight management as well as OAC management and supervision, but reports to the BART Chief Safety Officer. The SMS Manager's primary responsibility is working with OAC management and supervision (including the OAC Safety Coordinator) to support safety at OAC. All safety-related activities of the SMS Manager are subject to oversight of the BART System Safety Department and the Chief Safety Officer. A summary of the SMS Manager responsibilities is listed below:

- Participates in regular meetings to discuss OAC system safety;
- Ensures implementation of readiness drills, safety audits, and corrective action plans;
- Reviews and provides feedback to updates to OAC segments of the PTASP;
- Reviews and provides feedback to the OAC annual safety audit reports;
- Reviews the Operator's incident reports and other safety records;
- Participates in the incident investigation review process;
- Coordinates policy and procedure updates with various emergency response agencies relative to the OAC system; and
- Coordinates with CPUC and reports to federal and state agencies.

OAC has established a Safety and Security Review Committee (SSRC). The SSRC includes the District's personnel, the Operator's personnel, BART Chief Safety Officer and/or his designees, BART Security Manager and/or his designees, other representatives as determined by the District, and other external agencies (e.g., CPUC). The SSRC meets monthly to discuss system safety.

The SSRC focuses its activities on the BART OAC safety and security. As such, the SSRC:

- Participates in regular meetings to discuss OAC system safety;
- Ensures implementation of readiness drills, safety audits, and corrective action plans;
- Reviews and provides feedback to updates to the PTASP;
- Reviews and provides feedback to OAC annual safety audit reports;
- Reviews the Operator's incident reports and other safety records;
- Participates in incident investigation review process; and
- Coordinates policy and procedure updates with various emergency response agencies relative to the OAC system.

Operator's Safety Coordinator

The Operations and Maintenance Manager or his/her designee assumes the role of the Operator's Safety Coordinator and directly reports to the OAC Line Manager. A summary of the responsibilities of the Operator's Safety Coordinator is listed below:

- Maintains safety-related plans, rulebooks, procedures, and manuals;
- Coordinates reviews and investigation of operational accidents, safety incidents and safety complaints;
- Reports accident data to the District's representatives for distribution to CPUC and other federal and state agencies, as required;
- Conducts or participates in internal safety audits, inspections, and readiness drills;
- Maintains and implement the Operator's Injury and Illness Prevention Program;
- Support development of safety procedures for any internal or external projects affecting the Oakland Airport Connector System and oversee the Operator's implementation of the safety procedures;
- Ensures compliance with environmental regulations;
- Conducts safety meetings;
- Participates in internal audits of compliance to the safety program;
- Inspects adequacy of safety equipment, requesting replacement or servicing by others, as appropriate;
- Performs duties associated with the position of Incident Commander in responding to emergencies involving fire, explosion or release of hazardous wastes that could threaten human health or the environment;
- Maintains an awareness of shop activities and assists shop supervision and employees in conducting safe work practices;
- Maintains the Safety Policies included in the O&M Manual and conducts annual reviews of the policies and procedures to ensure they remain current with applicable industry standards;
- Conducts initial briefing of new employees and office personnel in the Safety Program, including orientation of re-hires on any changes made since previous employment;
- Conducts training sessions for all employees, initially and periodically, as may be required by the provisions of the General Safety Requirements in the O&M Manual, seeking outside support, as required;
- Ensures that employees receive required physical screening by authorized medical facilities/personnel for use of special safety equipment based on job assignment, as necessary or required;
- Determines specific needs for safety equipment needed by employees based on job assignment, in conjunction with site supervision, and initiating appropriate actions to "obtain, fit, and train", as appropriate;
- Files required reports relating to injuries, compliance issues, etc., to the insurance company and to federal and state agencies;
- Maintains records relating to injuries, safety training, etc., as required by the General Safety Requirements in the O&M Manual;
- Maintains Safety Data Sheet (SDS) records; and
- Implements and maintains a Lock-Out/Tag-Out program.

OAC Line Manager

The District's OAC Line Manager is directed and empowered to oversee the development, implementation, and administration of the PTASP and interfaces directly with the BART System Safety Department on relevant OAC safety matters.

The OAC Line Manager ensures the compliance with the designer's preventative activities and responsibilities of the Operator in an effort to identify, control, and resolve hazards during design, development, and operational phases of transit service. In addition, where it is determined that unsafe practices exist, the Line Manager has the authority to order such conditions corrected or practices halted. This includes the interruption of revenue services, if conditions warrant. In addition, the Line manager monitors compliance with the PTASP, including CPUC and Transportation Security Administration (TSA) requirements, audit compliance with the Operator's General Requirements, and coordinates with the Fire Life Safety Department to conduct safety drills with the Oakland Fire Department, BART Police, Alameda County Sheriff's Department, TSA, and the Port of Oakland.

2.4.3 Organizational Charts

Organizational charts can be found in Appendix A.

2.5 Interagency Services

The District interfaces with approximately 27 other transit modes and agencies that operate throughout Northern California, including other rail and bus transit, commuter and intercity rail, buses, and ferries. The highest volume and most frequently interfacing agencies include San Francisco MUNI bus and metro, Caltrain, AC Transit, Valley Transportation Authority (VTA), and SamTrans.

3.0 Plan Development, Review, and Updates

3.1 Plan Development

On July 19, 2018, the Federal Transit Administration (FTA) published 49 Code of Federal Regulations (CFR) Part 673, superseding 49 CFR Part 659, requiring certain operators of public transportation systems that receive funding under 49 United States Code (USC) Chapter 53 to develop a Public Transportation Agency Safety Plan (PTASP). This rule, effective July 19, 2019, requires that BART have an approved PTASP in place by July 19, 2020. This plan has been developed as a comprehensive, agency-wide, safety plan built on a Safety Management System (SMS) to meet FTA requirements under 49 CFR Part 673. These requirements are promulgated by the CPUC SSOA. The PTASP is developed and maintained by the BART System Safety Department.

3.2 Annual Plan Review

As required by 49 CFR Part 673 and CPUC General Order (G.O.)164-E, this plan will be reviewed annually in order to determine if updates are required. BART's General Manager, the agency's Accountable Executive, and the Chief Safety Officer will hold the SMS Manager, the OAC Line Manager, and each department manager accountable for compliance with agency processes established to fulfill this requirement. The System Safety Department is responsible for ensuring that each department manager understands the plan content and the safety of their domain and will propagate this responsibility on to each level of the supervisory chain and down to the rank-and-file employee. The System Safety Department is responsible for checking with respective department managers to ensure the PTASP content is accurate and complete.

The SMS Manager will conduct an annual review of this document or when significant District or regulatory changes occur, to determine if it should be updated. The plan will also be distributed to departmental managers for review and input on updates. Designated staff within the appropriate operations departments such as Transportation, Maintenance and Engineering, Rolling Stock and Shops, and OAC will review the PTASP and respond with comments. The SMS Manager will have the responsibility for incorporating comments received from all BART departments and issuing changes and revisions to the plan. If revisions are made to the plan, the revised PTASP will be submitted to the SMS Joint Union/Management Safety Committee for approval, in compliance with the Bipartisan Infrastructure Law.

3.2.1 Plan Review and CPUC Approval Timeline

Milestone	Department or Individual Responsibility	Due Date
Annual Plan Review	SMS Manager	January 1
Certification of Annual Review to CPUC	Chief Safety Officer	February 15
Revised plan submitted to CPUC for approval (if required)	Chief Safety Officer or SMS Manager	April 1

3.3 PTASP Review and Approval by Executive Management

The System Safety department is responsible for preparing, maintaining, and updating the PTASP. The PTASP will be reviewed annually, by the SMS Manager, to make necessary updates, corrections, and modifications in accordance with the Federal and State regulations. The SMS Manager will seek feedback from affected departments to determine if any changes are needed. Any significant changes (such as Hazard Management Program, Accident Investigation Procedures, or Safety Performance Targets, etc.) will be made and presented to the BART Board of Directors for approval. Any nominal changes (such as informational updates, administrative changes, updated organizational charts, etc.) will be made and presented to the BART General Manager for approval. The SMS Manager will update the revision table annually with a new revision number for the PTASP even if no changes need to be made. After the PTASP review, the System Safety department will provide the revision to the CPUC for their review and approval in accordance with the CPUC general order.

3.4 Plan Distribution and Control

Once endorsed, the System Safety Department is responsible for disseminating the PTASP throughout the agency, including transmitting an electronic version to the Document Division so that it may be stored as the safety plan record. The System Safety Department will distribute the Safety Policy using various methods, including, but not limited to email and/or sign-for documentation. The Safety Policy shall be posted at BART facilities and offices, incorporated into new hire and refresher training, and posted on bart.gov.

3.5 BART's Transition to SMS

In accordance with FTA and CPUC requirements, BART is transitioning from its existing system safety approach to that of the Safety Management System. This PTASP serves as the foundation for the transition, and BART will monitor its effectiveness and make changes to plans, policies, procedures, and practices to best support the needs of the new approach. BART has created an SMS Manager position, which was filled in 2021 to further lead its SMS efforts.

3.6 Conformance with FTA Guidelines

This PTASP addresses all requirements and standards as set forth in the FTA's Public Transportation Safety Program and the National Public Transportation Safety Plan. The PTASP will be revised when FTA establishes standards through the public notice and comment process, as well as through the annual plan review described in section 3.2.

4.0 Safety Performance Measures and Targets

The establishment of safety performance measures and targets (SPMs & SPTs) is a requirement of 49 CFR Part 673. The safety performance targets promulgated by this plan include measures specified by the National Public Transportation Safety Plan (NPTSP) in accordance with 49 CFR Part 670. The agency's safety performance targets seek to ensure the mitigation of identified safety risk to a point that is as low as reasonably practicable. By identifying specific, measurable, attainable, relevant, and time-bound targets, the District establishes processes for the regular evaluation of safety data collected across the agency.

The District has set forth SPTs in furtherance of the agency's Safety Assurance processes; a critical aspect of the District's SMS, these processes continuously scrutinize and record safety performance. Detailed in Section 7 of this plan, Safety Assurance encompasses safety performance monitoring and measurement, the management of change, and the continuous improvement of safety performance; collectively, these processes ensure that safety risk mitigations are implemented, appropriate, and effectively reduce safety risk. By identifying and clearly defining SPTs, the District informs safety performance monitoring and measurement activities and ensures the consistency of safety performance data, establishing criterion against which future safety performance may be measured. BART will use its SPT data to conduct more in-depth analysis of the safety data to determine the factors driving the values and the actions necessary to ensure that SPTs are met and adverse events (e.g. accidents, incidents, and occurrences) are reduced on an ongoing basis.

SPTs reflect the structure of agency operations. BART and E-Line operations, which are wholly owned and operated by the District, generate volumes of easily accessible data that allows for the development of extensive safety performance targets. OAC service, operated by Doppelmayr Cable Car (DCC), requires coordination between the Operator and System Safety to track and develop safety performance targets. Safety Assurance processes for all three modes described in Section 7, including the monitoring and measurement and continuous improvement of safety performance, are managed by the Safety Department and reported to the Board through the Quality Performance Review.

SPTs will be reviewed annually and revised if needed during the PTASP update. The targets will be communicated and coordinated with CPUC and the designated person of contact representing the Metropolitan Transportation Commission (MTC, BART's Metropolitan Planning Organization) in order to inform the planning agency's funding prioritization. BART coordinates safety performance targets with the following contact person at MTC:

- Bryan Redmond
Assistant Program Coordinator
bredmond@bayareametro.gov

Section 4.1 displays the District's SPTs—fatalities, injuries, safety events, and system reliability— which are derived from the FTA-recommended safety categories. These four targets are data points that public transportation providers must annually submit to the National Transit Database (NTD). Per NTD reporting thresholds, a *fatality* is any death or suicide in or on transit property confirmed within 30 days of a reported event, excluding those attributable to illness or natural causes. An *injury* is any damage or harm to persons as a result of an event that requires immediate medical attention away from the scene. A *safety event* is any collision, derailment, fire, hazardous material spill, act of nature (Act of God),

evacuation, or OSONOC occurring on transit right-of-way, in a transit revenue facility, in a transit maintenance facility, or involving a transit revenue vehicle and meeting established NTD thresholds. A *system reliability event* is a major mechanical system failure of some element of the revenue vehicle that prevents the vehicle from completing a scheduled revenue trip or from starting the next scheduled revenue trip because actual movement is limited or because of safety concerns.

The total number of events per year represent target SPTs established using five-year trend data from 2015-2019. The District has chosen to adopt the five-year average total numbers and rates as its performance targets, reflecting a goal to maintain the current level of safety performance while addressing Part 673 requirements. In the future, as the District SMS matures, the District, or one of its modes, intends to develop additional advanced SPTs, i.e., targets representing improvement over the current safety performance level.

4.1 Safety Performance Targets

Safety Performance Measure	Mode	Safety Performance Target Total # of Events per Year	Safety Performance Measure Total # of Events per Year per 1 Million VRM*	Safety Performance Target Annual Reduction Measure
Fatalities	BART	0	0	- 5%
	E-Line	0	0	-
	OAC	0	0	-
Patron Injuries	BART	60	0.76936	- 5%
	E-Line	2	3.0985	- 5%
	OAC	1	2.5734	- 5%
Safety Events	BART	10	0.12823	- 5%
	E-Line	1	1.5492	- 5%
	OAC	0	0	-
System Reliability Failures	BART	60	0.76938	- 5%
	E-Line	5	7.7461	- 5%
	OAC	1	2.5734	- 5%
* Vehicle Revenue Miles (VRM) by mode:				
BART = 77,985,115		E-Line = 645,485		OAC = 388,584

Key performance indicators (KPIs) and safety data are measured throughout the District by the System Safety Department as well as other departments. The System Safety Department is currently entering a range of its safety data into the Maximo database and further developing the safety database to include a dashboard with KPIs related to its audit activities and overall safety performance. Furthermore, the System Safety Department managers reviews the dashboards and output data from other departments such as Transportation and Maintenance and Engineering, independently and at departmental meetings. Under its SMS, System Safety has developed and is continuing to develop systems to review, analyze, and integrate safety data into leading and trailing performance indicators in addition to the aforementioned KPIs.

5.0 Safety Management Policy

5.1 SMS Policy

Section 1 of the PTASP includes the Safety Management Policy Statement. In furtherance of the Policy Statement, BART has established: an overall safety purpose, goals, and objectives; a comprehensive program for emergency preparedness and operations; programs for communicating the safety policy; employee safety reporting programs; and documentation and recordkeeping requirements.

5.2 Purpose, Goals, and Objectives

5.2.1 Purpose

The PTASP defines the District's technical and managerial safety activities while conforming to the themes of a safety management system.

Multiple parties are responsible for cooperating in the development of, and safety culture promotion for, this multi-modal plan. To achieve a safety culture within an organization, two vital aspects must be firmly in place. First, the System Safety Department must identify and communicate the various safety regulatory requirements, safety requirements, and safety practices to pertinent departments, Districtwide. Second, each department manager must clearly understand that they are responsible for the safety of their domain, and to propagate this responsibility on to each level of the supervisory chain and down to front-line employees.

This PTASP complies with the requirements of 49 CFR Part 673 and the CPUC G.O. 164, *Rules and Regulations Governing State Safety Oversight of Rail Fixed Guideway Systems*. It shows the System Safety Department's relationship with regulatory agencies and other BART departments, and it defines the responsibilities of the various District departments. Additionally, sufficient detail is presented for the monitoring and control of the program.

5.2.2 Goals

The PTASP goals are as follows:

- Provide a safe, reliable, clean, quality transit service for riders.
- Identify, eliminate, minimize, and/or control safety hazards and risks.
- Minimize or eliminate accidents/ injuries through engineered controls, safety devices, operating procedures, audits, and corrective actions.
- Ensure compliance with safety, health and environmental laws, regulations and codes.
- Maintain a high level of ability to respond to emergency/disaster conditions.

- Establish requirements, lines of authority, levels of responsibility and accountability for implementation of the PTASP within the organization.
- Create a program for the analysis of safety information and lessons learned through the District's operations and at other transit properties (which have characteristics similar to the District's modes) to support the improvement of BART system safety.
- Ensure that the District's safety programs are effectively and comprehensively promoted and communicated to employees and the public.

5.2.3 Objectives

The PTASP goals are attained by achieving the following objectives:

Safety Policy

- Communicate and apply a safety policy consistent with SMS;
- Support and/or implement emergency exercises to demonstrate the District's preparedness for emergencies and disasters; and
- Implement safety-related District management procedures and policies

Safety Risk Management

- Identify and resolve hazards through a documented process of reviews, analysis, and certification, and testing; and
- Perform hazard/risk assessment for integration of safety component into the capital investment prioritization of the Asset Management Program

Safety Assurance

- Perform internal safety audits and follow up on corrective action items;
- Perform accident investigations to preclude a recurrence;
- Inspect and maintain all assets to the requirements established in referenced plans and procedures; and
- Ensure compliance with operating rules

Safety Promotion

- Implement the Employee Safety Program and Injury and Illness Prevention Program (IIPP);
- Develop a pilot program to create Safety Champions in Operations Departments and at operating and maintenance facilities to promote safety dialogue with all levels of District employees;
- Comply with environmental regulations through a hazardous materials program;
- Promote safety through executing defined training and oversight; and
- Distribute the Rule of the Week to all District employees.

5.3 System Safety, Security, and Emergency Preparedness

5.3.1 District-Wide Security and Emergency Management Program (EMP)

Emergency preparedness is a shared responsibility for all employees. The structure of the EMP falls under the Security Division in the BART Police Department. Awareness, planning, training, drills, and

exercises help contribute to a culture of safety and emergency preparedness at BART. Policy on BART Emergency Preparedness is located in BART's Emergency Operations Plan, Book 346.

Additionally, E-Line emergency preparedness is addressed in the E-Line Emergency Response Plan, and similarly, OAC maintains its own emergency response plan. Both E-Line and OAC plans follow an approach that is generally consistent with the BART Emergency Management Program.

The goals of BART's Emergency Management Program are to:

- Provide effective life safety and emergency response and recovery measures during a catastrophic event or emergency and reduce property loss and damage to the environment.
- Provide for the rapid resumption of transportation services.
- Provide accurate documentation and records required for cost recovery efforts.

The objectives of BART's Emergency Management Program are to

- Maintain overall coordination/support of emergency response and recovery operations, including on scene incident management as required.
- Coordinate and liaise with appropriate federal, state, regional, and local government agencies, as well as applicable segments of private sector entities and volunteer organizations.
- Establish priorities and resolve conflicting demands for support via Incident Command System (ICS) management by objectives protocols.
- Work with BART Media and OCC to prepare and disseminate emergency public information to alert, warn, and inform the public.
- Disseminate damage information and other essential data to all BART divisions, as required.
- Activate the Emergency Operations Center to support and assist incident command staff with priorities and objectives.
- Ensure continuity of operations in the Payroll, Cash Handling, and other finance functions in coordination with the Controller-Treasurer
- Secure and protect the safety of employees and patrons and the integrity of all BART facilities, equipment, and assets

Using the Incident Command System framework, BART's all-hazards Emergency Operations Plan (EOP) establishes policies and procedures and assigns responsibilities to operationalize emergency management objectives and goals within BART.

The Plan includes BART's Incident Management Organization for responding to emergencies. It also describes how BART implements the Incident Command System (ICS) established by local responders and integrates the National Incident Management System (NIMS)

The objectives of the BART EOP are to create plans and processes for, respond to, and recover from a catastrophic, unplanned, and/or unusual event. Its goals are to prevent loss of life or injury, mitigate the potential danger to passengers, emergency responders and others during emergency events, have plans that incorporate emergency responders and other external agencies, and to maximize the effectiveness of BART and other agency personnel in dealing with such incidents when they occur. The plan's implementation ensures efficient, controlled and predictable responses to various types of emergencies

and incidents that may occur on the BART system. The BART Emergency Preparedness Program is responsible for reviewing and maintaining the Emergency Operations Plan,

Events that are deemed terrorist acts have additional response policies that are included in the Terrorism Response Annex, which is part of the System Security Plan. These policies and plans are maintained by the Director of Security.

All revisions to the plan will be approved by the Chief Safety Officer, the Director of Security Programs, the BART Chief of Police, the AGM for Operations, and the General Manager. The Emergency Preparedness Manager is responsible for document distribution and control.

The EOP will be tested by tabletop and/or training exercises on a routine basis as described in EMP documentation. Real-world events may be used as a lessons-learned exercise potentially with an After-Action Report. Emergency procedures/drills will be performed in conjunction with appropriate emergency response agencies to ensure proper response to actual events. Internal Safety Audits (described in Section 7.1) help to verify that periodic emergency response exercises and disaster preparedness planning have been performed to ensure that BART maintains a high level of emergency preparedness. Elements shall be in accordance with the specified requirements of the BART Emergency Operations Plan.

The Emergency Operations Center (EOC) will be used to coordinate, support, manage, and provide planning, response, and recovery support to the Incident Command and/or Unified Command. After activation of the EOC, the EOC staff shall notify and coordinate internally and with local, state, regional and federal public safety entities, transportation partners, and the private sector, as required. Primary public safety partners in emergency management include the Metropolitan Transportation Commission (MTC), Water Emergency Transportation Agency, San Francisco and Oakland Airports, Alameda County Office of Emergency Services, Contra Costa County Office of Emergency Services, San Francisco City and County Department of Emergency Management, San Mateo County Office of Emergency Services, Santa Clara County Office of Emergency Services, Governor's Office of Emergency Services, Federal Emergency Management Agency, and Pacific Gas and Electric. The criteria for activation of the EOC, activation procedures, and equipment layout are addressed in the BART Emergency Operations Plan.

The Fire Life Safety Department, System Safety Department, and the Emergency Preparedness Program are responsible for coordination of emergency preparedness functions such as meetings with outside agencies, participation in training and emergency exercises sponsored by other agencies, and revision and distribution of the Emergency Operations Plan and emergency response procedures. Periodic emergency response exercises/drills and disaster preparedness planning will be developed and executed throughout the year to demonstrate sound knowledge, preparation, and readiness of emergency procedures. Periodic emergency procedures/drills will be performed in-house and with appropriate emergency response agencies to ensure proper response to actual events.

5.3.1.1 Emergency Exercises

Emergency Exercises are utilized to evaluate emergency procedures, contingency plans, and the effectiveness of coordination with outside agencies. Emergency exercises/drills provide indispensable training and familiarization opportunities for both emergency response personnel and rail transit agency staff. These are classified into two categories, Scheduled and No-Notice Drills, described as follows:

1. **Scheduled Emergency Exercises:** Can be developed by Fire Life Safety, System Safety, Transportation, Emergency Preparedness Program, and/or BART Police Department staff and distributed in advance to all participating departments and outside agencies. The primary purpose of this type of exercise is to provide training, to evaluate policies and procedures, and to identify any gaps in the existing plans. This includes both tabletop and live exercises.
2. **No-Notice Drills:** No-Notice Drills are developed and used to test the adequacy and appropriateness of response actions as required by emergency procedures. These types of drills can be conducted with or without outside agency participation.

The Fire Life Safety Department, System Safety Department, and/or the Emergency Preparedness Program is responsible for developing, initiating, and evaluating emergency exercises. Exercise evaluators may include representatives from said departments and from each participating District department and outside response agencies. They are expected to observe exercises and provide a critique in the form of an After-Action Report. The After-Action Report includes a description of the observations noted during the exercise. Fire Life Safety and/or Emergency Preparedness will evaluate After-Action Report recommendations and implement corrective actions, where practical.

5.3.1.2 Emergency Operations Plan

The Emergency Operations Plan (EOP) provides for the mobilization and direction of District and outside resources in response to emergency situations which could adversely affect employee/patron safety and/or District infrastructure and/or operations.

It is the responsibility of the Emergency Preparedness Program to maintain and revise the District's EOP. The EOP is reviewed on an annual basis by the Emergency Preparedness Program and an assessment made regarding whether or not revisions to the plan are warranted. In addition to this review, any BART department may forward recommendations for changes to the EOP to the Chief Safety Officer, Chief Transportation Officer, Communications, Manager of Emergency Preparedness, Director of Security or the BART Chief of Police, as appropriate.

Validation of the EOP and evaluations of readiness in carrying out these procedures are performed by conducting emergency exercises and After-Action reviews after emergencies. Deficiencies noted may be corrected by procedural changes, training, or equipment upgrade.

The BART Operations Rules & Procedures Manual, used in conjunction with the EOP, details the required communications methodology for BART during an emergency. E-Line and OAC operating manuals, in conjunction with the Emergency Operations Plan, detail the required communications methodologies for each line.

5.3.1.3 Emergency Operations Training

Employees should be acutely aware of risks and hazards and all safety rules and procedures. BART's Emergency Operations Plan outlines training required for general disaster service workers. Specialized workers may require more advanced training to ensure proficiency in the full range of emergency situations. BART provides employee training to staff for handling of emergency situations through proper initial and refresher training to ensure proficiency in the response to full range of emergencies. Emergency operations training for OAC employees is embedded in OAC-specific training. Employees providing public service such as Station Agents and Train Operators are thoroughly trained in the

handling and response to emergencies. Station Agents are required to undergo training and recertification every 3 years and Train Operators as described in Section 8 of this PTASP.

5.3.1.4 OAC-Specific Emergency Exercises and Drills

Familiarization Training to local public safety entities will be provided and coordinated by the Fire Life Safety Department and the OAC Operator. Emergency plans and procedures have been developed in coordination with the Operator, the District and local emergency response agencies to ensure readiness in response to an emergency. These procedures are located in the O&M Manual and Rule Book documentation. Audits of security policies and procedures, tabletop and functional drills and full -scale exercises, coordinated with appropriate emergency response providers, are performed as part of system-wide readiness drills. System-wide readiness drills are performed at least twice per year. The drills are jointly planned in advance by the OAC Safety and Security Review Committee (SSRC) and other stakeholders and emergency response agencies as necessary. The SSRC establishes goals for each planned drill in terms of response and recovery times or other agreed-upon metrics. Prior to conducting readiness drills, the Operator ensures each of the Operating personnel are trained to respond to the drills and provides periodic system orientation to emergency response agencies as necessary. During the readiness drills, the Operator monitors and evaluates the efficiency with which the drill activities are carried out and the responses of the various drill participants (Operator personnel, emergency response agency personnel, etc.). The observations and conclusions of these observers are documented and presented to the OAC Line Manager, Operator's Safety Coordinator, and lead managers of other stakeholders and emergency response agencies participating in the drills. These individuals prepare a Drill Report, which presents the results of the drill, identifying any areas of deficiency, and recommends new/revised training and testing procedures for the ensuing year to rectify noted areas of inadequate response. The SSRC tracks the implementation of corrective actions into the emergency plans and/or drill preparations.

Representative readiness drills performed on a semi -annual basis may include:

- Bomb Threat
- Suspicious Package
- Smoke/Fire in Station/on Train
- Medical Emergency
- Other.

Based on the outcome of audits and drills, revisions to the emergency plans and procedures may be required. The Fire Life Safety Department ensures that revisions to the plans and procedures are distributed to all appropriate emergency response agencies.

5.4 Communication of the Safety Management Policy

The safety management policy will be communicated in a rank-and-file format from new hires to current employees with hardcopies and/or e-copies distributed during New Hire Orientation, posted in operator and maintenance technician common spaces, provided to contracted personnel, and made available to all employees upon request. If revisions are made to the safety management policy, the BART CSO will be responsible for ensuring that the safety policy is made available to all BART personnel, as described above. For OAC, the SMS Manager will ensure the message is made available to all contracted operations and maintenance personnel.

5.5 Employee Safety Reporting

BART administers a comprehensive employee safety reporting program. Reporting programs differ from BART to OAC, but all programs are grounded in giving employees the opportunity to report safety concerns, risks, or questions to management without disciplinary action. All programs provide employees with the opportunity to identify themselves or to report anonymously. The BART System Safety Department is responsible for responding to all employee safety concerns and taking appropriate action and, where necessary, enact appropriate mitigations or responses. Furthermore, the BART System Safety Department is responsible for tracking all employee safety reports and integrating the results into its safety risk management programs.

Potential safety hazards in an employee's work area are to be reported to his/her immediate supervisor. If the employee is not satisfied with the response, he/she may complete a *BART Safety Notice (BSN)*. The completed form is given to the supervisor for comment and a copy, with comments, sent to the System Safety Department. The Manager of the Employee/Patron Safety Division within the System Safety Department investigates all such notices. Each investigation is undertaken to verify whether a safety hazard exists and to ensure that necessary corrective action has been implemented.

Employees will not face disciplinary action for reporting safety concerns unless the employee has been found to have willfully violated a rule or procedure in accordance with existing BART employee requirements. Employee behaviors that may result in disciplinary action can be found in mode-specific operator and controller rulebooks, District employee code of conduct, and the collective bargaining agreements for BART and E-Line (i.e., the Agreement with the Amalgamated Transit Union). OAC has a "5 Violations and Disciplinary Actions" document outlining the possible offenses and consequential disciplinary actions.

BART also provides all employees and contractors with a pocket-sized Safety Management System card (see Appendix D) that outlines core employee roles and accountabilities in SMS, with a listing of all methods for anonymously reporting safety concerns, hazards, near misses/close calls, and suggestions to the System Safety Department via email (SystemSafety@bart.gov). It includes phone numbers for various BART departments for reporting safety and security concerns and also includes a graphical depiction of personal protective equipment required for individuals working along the wayside.

All active BART Safety Notices are discussed at the next regularly scheduled meeting of the Joint Union/Management Health and Safety Committee (JUMHSC). If an employee feels that an imminent safety hazard exists and is not being adequately corrected, he/she may contact the System Safety Department for immediate investigation.

If an employee chooses to be identified when making a safety report, the Manager of the Employee/Patron Safety Division will respond to the employee with either an explanation of the mitigations taken or the analysis that led BART to determine a hazard does not exist or does not need mitigation. This will take place after either the JUMHSC meeting or an immediate System Safety Department investigation.

5.5.1 Roadway Worker Near Miss Program

The District maintains a Near Miss Program for the reporting and recording of near misses related to roadway workers in accordance with CPUC G.O. 175 Roadway Worker Protection. The purpose of the RWP Near Miss Reporting Program is to encourage employees to report near-miss incidents related to

the safety of individuals located in (or adjacent to) the trackway due to (1) the movement of all on-rail vehicles on mainline, and in local control areas including shop tracks, and (2) the third rail power system associated with propulsion of revenue service vehicles. This program applies to BART and E-Line. OAC maintains a separate, complementary RWP Near Miss Reporting Program that complies with CPUC G.O. 175.

The intent of these programs is to become knowledgeable of unsafe acts that would otherwise go undetected or unreported so that proactive corrective action can be taken. Employees wishing to file a report may enter the information on the Roadway Worker Near-Miss Reporting Form. Roadway Worker Near-Miss records are required to be retained for four years and made available to CPUC staff.

5.6 Plan Interface

The PTASP describes the District's holistic approach to ensuring the safety and security of its operations; correspondingly, the PTASP interacts with numerous plans and policies, including the agency's System Security Plan (SSP). This plan outlines the District's policies and procedures and describe the roles and responsibilities of all agency employees and contractors, beginning with the highest level of management.

BART provides ADA paratransit service to individuals whose disability prevents them from accessing, boarding, or riding BART trains. ADA service is provided by contracted agency vehicles and is by reservation only. ADA service is available after the rider is certified as eligible under ADA guidelines. Agencies required to develop a PTASP in compliance with 49 CFR Part 673 shall exchange standalone PTASP's with the District.

5.7 Documentation and Recordkeeping

In accordance with 49 CFR Part 673.31, the District maintains all documents set forth in the PTASP, including those related to the implementation of SMS, and the results of SMS processes and activities for a minimum of three years. The results of all SMS activities are maintained at the agency entity responsible for their performance, unless otherwise specified.

Upon request, these documents shall be made available to the CPUC, FTA or another federal agency. Internally, the retention of records related to SMS processes and activities allows the District to review SMS performance as part of the agency's safety assurance activities.

6.0 Safety Risk Management

This section provides an overview of the safety risk and hazard management process developed by the District. This process defines the on-going identification of hazards, the methodologies used to evaluate and prioritize for elimination or control, the tracking of identified hazards through resolution, and the reporting of hazards to the oversight agency. Safety risk management is a component of the SMS that ensures safety risk mitigations are evaluated for effectiveness over time. The Safety risk management process detailed below is comprised of safety hazard identification, safety risk assessment, and safety risk mitigation.

The hazard management process is a primary tool used by the District to ensure the safety of its activities, facilities, and vehicles. This process is accessible to all levels of the organization and is the means by which hazards are identified and analyzed for potential impacts on the system. The principles of hazard identification, assessment, and resolution are the same for all three modes. In addition, BART will develop strategies to minimize the exposure of infectious diseases to the public, personnel, and property to hazards and unsafe conditions consistent with guidelines of the Centers for Disease Control and Prevention and/or a State health authority.

The specific, current approaches to hazard analysis are outlined in Section 6.2 by mode. The hazard management process follows Military Standard 882(e), with the guidelines as detailed below.

6.1 Safety Hazard Identification

Hazard identification is a process to discover conditions in the system that if not altered, have the potential to cause accidents, injuries, fatalities, or significant material losses. These conditions may be found in the form of physical hazards, unsafe actions, and policies that create or fail to recognize hazards. In addition, The System Safety Department is chartered to review, audit or otherwise oversee the activities, facilities, equipment and programs within the District to identify potential hazards to employees, patrons or equipment. Additionally, when new projects and programs are in the development stages, the System Safety Department endeavors to prevent these hazards from arising in the first place.

6.1.1 Identification of Operational Hazards

The System Safety Department identifies potential operational hazards and hazardous conditions in a variety of ways, including, but not limited to:

- Audits and inspections
 - Internal safety audits (See Section 7.1)
 - Facilities inspections
- Reports and complaints from passengers through contact with customer service, field personnel or management personnel
- Reports and reviews of BART Safety Notices (BSNs)
- Review of Unusual Occurrence Reports (UORs)
- Near Miss Reporting Program review
- Review of District compliance check data
- Investigation and review of accidents and incidents
- Safety data trend analysis

- Operations Safety Compliance programs
- BART's Employee Safety Reporting program (Elerts)
- SSOA and FTA reports
- Other employee reports

The System Safety Department monitors the safety performance of all of the District's operations, including equipment and personnel. Safety-related data is analyzed and plotted for trends and statistical analyses. Operating hazards are reported, discussed and tracked in the monthly Operations Summary reports, the monthly Accident, Hazard, and Corrective Action summary Report (CPUC Form V) and the CPUC-BART Quarterly Safety and Security Meetings. BART and E-Line safety performance and statistical data are stored and organized in the Maximo Health, Safety, and Environmental (HSE) database system and, upon further IT development and implementation, will be presented on the District's SharePoint dashboard.

6.1.2 Safety Committees

Committees throughout BART serve as sources for hazard information. Committee participation includes the following:

- **Joint Union/Management Health & Safety Committee (JUMHSC):** The Committee includes employee representatives from the Amalgamated Transit Union (ATU) Local 1555, the Service Employees International Union (SEIU) Local 1021, the American Federation of State, County and Municipal Employees (AFSCME) Local 3993, BART Police Management Association (BPMA) and the BART Police Officers Association (BPOA). The committee is comprised of a minimum of 18 employees; nine members selected by their respective unions, and the remaining nine members represent BART Management. A designee of the Chief Safety Officer chairs the committee. The committee is established under the ATU and SEIU Union/Management Labor Agreements.

This committee was established to address safety problems that have not been solved at the supervisory management level. Those hazards that cannot be addressed immediately at the supervisory level or satisfactorily mitigated by a Local Safety Committee can be elevated to the JUMHSC. Any hazards that require a change or modification to systems, equipment, or procedures would need to rise to the JUMHSC for cross-departmental evaluation. Finally, any low-risk hazards that could be systemic should be brought to the JUMHSC by the designated management or union personnel for systemwide mitigation. The mitigation of hazards is reported in meeting minutes available to all personnel.

The agenda includes coverage of key performance indicators such as injuries, accidents, and rule violations. The committee covers a wide range of safety topics, forms sub-committees with specific objectives (e.g., back injury reduction), and participates in accident reviews.

- **SMS Joint Union/Management Safety Committee:** This safety committee was established to meet the requirements of the of the Bipartisan Infrastructure Law on the Public Transportation Agency Safety Plan 49 U.S.C. 5329d, which requires the Safety Committee to be jointly comprised of an equal number of management and union members. This safety committee will focus on the following:

- Safety deficiencies that may affect BART personnel physical, mental, or psychological state.
 - Identification of risk-based mitigation/recommendations necessary to reduce the likelihood and severity of consequences identified through the agency's safety risk assessment.
 - Identification of mitigations or strategies that may be ineffective, inappropriate, or not implemented as intended.
 - Methods to reduce numbers and rates of accidents, injuries, and assaults on transit workers based on BART incidents and the NTD database.
 - Reviewing and approving, on a schedule that meets any deadlines imposed by the Federal Transit Administration or any other government entity, changes to the PTASP.
- **BART System Safety Department Biweekly Meeting:** The System Safety Department holds a biweekly meeting in which the Chief Safety Officer and division managers review safety performance data, open investigations, open hazards, corrective actions, employee safety concerns, and other relevant information, include data to be submitted to the CPUC.
 - **OAC Safety and Security Review Committees (SSRC):** OAC holds a separate safety and security review committee meetings where the Operator's Safety Coordinator leads monthly reviews of safety performance data, open investigations, open hazards, corrective actions, employee safety concerns, and other relevant information with the OAC Line Manager, the SMS Manager, and CPUC representatives.
 - **Local Safety Committees:** Other safety committees may be formed from time to time at the discretion of BART Management in specific areas such as shops, specific buildings where BART employees work, or in construction and other field operations. RS&S Shop Safety Committees and M&E Safety Committee are some examples. In addition, committees may be formed to address specific issue such as recycling, special operational problems such as split switches, or stress management. Participation at these committees by the System Safety Department staff is at the discretion of the Chief Safety Officer. Hazards that cannot be addressed at the Local Safety Committee level or that may be systemic must be raised to the JUHMSC.

6.1.3 Coordinating with the State Safety Oversight Agency

As the aforementioned operational reports and data are evaluated, conditions that could result in serious injuries or significant property damage are reported to the Chief Safety Officer for further review. If the Chief Safety Officer determines that a reported condition is, in fact, an unacceptable hazard (As defined by Figure 6.1 or 6.5, Risk Assessment Matrices), the Chief Safety Officer, or his/her designee, will ensure actions are taken to mitigate the hazard and notify CPUC staff within 2 hours of making that determination. These high-risk, serious hazards will typically result in a full investigation according to the safety event investigation and reporting procedures in Section 7.4.

6.2 Safety Risk Assessment

6.2.1 BART Hazard Resolution Matrix

Potential safety hazards will be evaluated using a hazard resolution matrix as shown below in Table 6.1. The Hazard Resolution Matrix reflects the combined severity and probability ranking for each identified

hazard. Risk assessment criteria shall be applied to the identified hazards based on their severity (Table 6.2) and probability of occurrence (Table 6.3), to determine acceptance of the risk or the need for corrective action to further reduce the risk.

Qualitative text descriptions of risk severity and probability are listed in Tables 6.2 and 6.3, respectively. Once severity and probability are assigned, the assessed risk is expressed as an alphanumeric Risk Assessment Code (RAC), which is a combination of one severity category and one probability level. RACs each have an associated risk level of High, Serious, Medium, Low or Eliminated, which determines the priority of the District's response.

Table 6.1: BART RISK ASSESSMENT MATRIX				
Severity Probability	(1) Catastrophic	(2) Critical	(3) Marginal	(4) Negligible
(A) Frequent	High	High	Serious	Medium
(B) Probable	High	High	Serious	Medium
(C) Occasional	High	Serious	Medium	Low
(D) Remote	Serious	Medium	Medium	Low
(E) Improbable	Medium	Medium	Medium	Low
(F) Eliminated	Eliminated			

Matrix derived from MIL-STD-882E

Table 6.2: SEVERITY CATEGORIES		
Description	Category	Mishap Result Criteria
Catastrophic	1	Could result in one or more of the following: death, permanent total disability, irreversible significant environmental impact, or monetary loss equal to or exceeding \$10M.
Critical	2	Could result in one or more of the following: permanent disability, injuries or occupational illness that may result in hospitalization of at least three personnel, reversible significant environmental impact, or monetary loss equal to or exceeding \$1M, but less than \$10M.
Marginal	3	Could result in one or more of the following: injury or occupational illness, resulting in one or more lost workday(s), reversible moderate environmental impact, or monetary loss equal to or exceeding \$100K, but less than \$10M.
Negligible	4	Could result in one or more of following: injury or occupational illness not resulting in a lost workday, minimal environmental impact, or monetary loss less than \$100K.

Table 6.3: PROBABILITY LEVELS			
Description	Level	Specific Individual Item	Fleet or Inventory
Frequent	A	Likely to occur often in the life of an item.	Continuously experienced
Probable	B	Will occur several times in the life of an item.	Will occur frequently
Occasional	C	Likely to occur sometime in the life of an item.	Will occur several times
Remote	D	Unlikely, but possible to occur in the life of an item.	Unlikely, but can reasonably be expected to occur
Improbable	E	So unlikely, it can be assumed occurrence may not be experienced in the life of an item.	Unlikely to occur, but possible
Eliminated	F	Incapable of occurrence. This level is used when potential hazards are identified and later eliminated.	Incapable of occurrence. This level is used when potential hazards are identified and later eliminated.

Table 6.4: RELATIONSHIP BETWEEN RAC AND RISK LEVEL		
RAC	Risk Level	Response
1A, 1B, 1C, 2A, 2B	High	Hazard is reported to an appointed CPUC SSOA representative, then assigned a corrective action. The hazard is tracked in the CAP Log.
1D, 2C, 3A, 3B	Serious	Hazard is assigned a RFM and tracked in Maximo. Notification to the SSOA is not required.
1E, 2D, 2E, 3C, 3D, 3E, 4A, 4B	Medium	Hazard may be allowable; however, the CSO is notified and deems if the hazard can be reduced further. The hazard will be assigned a RFM if necessary and tracked in Maximo.
4C, 4D, 4E	Low	Hazard has either been eliminated or the level of risk is low and cannot be reduced further.

6.2.2 BART Hazard Tracking

The Operations Safety Division of the System Safety Department is responsible for conducting safety assessments of operating hazards for BART operations.

Potential risk mitigation(s) shall be estimated and documented in Maximo. The goal should always be to eliminate the hazard, if possible. When a hazard cannot be eliminated, the associated risk should be reduced to the lowest acceptable level within the constraints of cost, schedule, and performance.

Depending on mode, after assessment of the severity and probability of a hazard, the Operations Safety Division will perform a determination regarding acceptance of the risk or taking corrective action. Risk assessment issues of significant impact or those where there is a lack of consensus will be submitted to the executive leadership for resolution. Upon final approval by executive leadership, the resolution is placed into the hands of the responsible department(s) and/or the Contractor for implementation. The

Operations Safety Division shall document all hazards that are assigned a risk level of “High” with the required information for monthly submittal to the CPUC.

During construction projects, an assessment of the potential hazards and possible safety mitigation measures will be conducted. The Preliminary Hazard Analysis (PHA), performed in the Preliminary Engineering phase, provides an initial assessment of hazards, and identifies possible controls and follow-on actions to eliminate or mitigate the hazards. The PHA will be performed in accordance with the BART Safety and Security Certification Plan (SSCP), Hazard and Vulnerability Management. Items in the Hazard and Vulnerability Tracking Matrix (HVTM) will be updated and will include a description of the measures that shall be taken to resolve the hazard. All hazards will be tracked for resolution in a HVTM until closed.

6.2.3 OAC Hazard Risk Matrix

OAC utilizes a similar process as BART for risk assessment. Investigations, evaluations, and analysis use the Risk Matrix shown in Table 6.5 below. Each hazard shall be assessed in terms of severity and probability of occurrence.

The following hazard risk matrix is used for risk assessment. Severity and probability are used together to provide a measure of the worst potential consequences resulting from human error, environmental conditions, design inadequacies, procedural deficiencies, subsystem/component failure or malfunction. This risk assessment is used as the basis for decision making to determine whether individual subsystem hazards should be eliminated, mitigated or accepted.

Table 6.5: RISK ASSESSMENT MATRIX FOR OAC				
Severity Frequency	Catastrophic	Critical	Marginal	Negligible
Frequent	Unacceptable	Unacceptable	Unacceptable	Acceptable with notification
Probable	Unacceptable	Unacceptable	Undesirable	Acceptable with notification
Occasional	Unacceptable	Undesirable	Acceptable with notification	Acceptable
Remote	Undesirable	Acceptable with notification	Acceptable with notification	Acceptable
Improbable	Acceptable with notification	Acceptable with notification	Acceptable	Acceptable

I

II

III

IV

Risk matrix according to ASCE 21-05

Table 6.6: ASCE SEVERITY CATEGORIES		
Event Severity	Category	Description
Catastrophic	I	Death, system loss or severe environmental damage
Critical	II	Severe injury, severe occupational illness, or major system or environmental damage
Marginal	III	Minor injury, minor occupational illness, or minor system or environmental damage
Negligible	IV	Less than minor injury or occupational illness, or less than minor system or environmental damage

Table 6.7: ASCE PROBABILITY CATEGORIES		
Frequency of Occurrence	Category	Description
Frequent	A	MTBHE is less than 1,000 operating hours
Probable	B	MTBHE is equal to or greater than 1,000 operating hours, but less than 100,000 operating hours
Occasional	C	MTBHE is equal to or greater than 100,000 operating hours, but less than 1,000,000 operating hours
Remote	D	MTBHE is equal to or greater than 1,000,000 operating hours, but less than 100,000,000 operating hours
Improbable	E	MTBHE is equal to or greater than 100,000,000 operating hours

Table 6.8: RISK ASSESSMENT RESPONSE	
Risk Level	Response
Unacceptable	Hazard is reported to the SSRC and an appointed CPUC representative, then followed/track in the monthly SSRC. The item is added to the Hazard Log, assigned a corrective action, and tracked with a CPUC CAP.
Undesirable	Hazard is tracked in the Hazard Log, assigned a corrective action, and tracked in the CAP. Notification to the SSOA is not required.
Acceptable with notification	Hazard may be allowable; however, the SMS Manager is notified and deems if the hazard can be reduced further
Acceptable	Hazard has either been eliminated or the level of risk is low and cannot be reduced further.

6.2.4 OAC Hazard Tracking

The Operator documents and tracks hazards through the OAC Hazard Log and Corrective Action Report until final resolution is achieved. For hazards not identified through the safety certification process, many hazards are tracked through the committees described earlier in this section. Each committee keeps meeting minutes with either a supplemental or an embedded OAC Hazard Log that contain:

- A hazard identification number
- The date of hazard identification
- The source of the hazard identification (inspection, employee report, etc.)
- Full details of the hazard
- An initial risk rating
- Information to date on evaluation of the hazard
- Progress updates and/or action items to continue evaluating the hazard or regarding its immediate mitigation
- A final risk rating
- Status (open or closed)
- Reference to a Corrective Action Plan, if the mitigation cannot be implemented immediately.

All hazards identified through the safety certification process, except those assessed as “acceptable” will be tracked for resolution in the OAC Hazard Log. Items in the OAC Hazard Log will be updated and include a description of the measures that shall be taken to resolve the hazard. Items identified in the OAC Hazard Log may require additional analysis to be performed by the Contractor in the Final Design stage, for hazards identified during construction projects, or by a member of System Safety, for hazards identified elsewhere. Open items will be tracked until closure.

6.3 Safety Risk Mitigation & Resolution

Many hazards can be resolved immediately by personnel in the department where they exist; however, hazards that are more systematic or require a more involved resolution will be tracked by the System Safety Department. After assessment of the severity and probability of a hazard, System Safety Department personnel will make a determination regarding acceptance of the risk or taking corrective action by using the hazard matrix (depending on the source of the hazard and where it is being tracked). A committee may be formed to assess significant hazards, or the hazard may be raised for discussion and evaluation at one of the standard BART committee meetings. Hazard mitigations for hazards assigned a risk level of “High” that cannot be implemented immediately should result in a Corrective Action Plan. CAPs must contain the material required in Section 7.8 of the PTASP. CAPs must also be presented to the CPUC for approval prior to implementation. Once approved, the hazard can be added to the District CAP Log maintained by the System Safety Department.

Risk assessment issues of significant impact or those where there is a lack of consensus will be submitted to the executive leadership for resolution, typically through the JUHMSC. Upon final approval by executive leadership, the resolution is placed into the hands of the responsible department(s) and/or the contractor for implementation.

6.3.1 BART Requirements for Safety Analysis Review Process for Construction Projects

The Project/Modification Safety Technical Review applies to proposed new facilities or equipment, or any modifications to existing facilities, equipment or software where a formal system analysis is

considered necessary by the System Safety and/or Engineering Departments. The System Safety Department makes the final determination on safety-related matters, including which projects and modifications require the preparation of a system safety analysis and/or safety certification. Typically, these analyses are performed under contract by a consultant or by the Engineering department responsible for the project or modification. These analyses are reviewed by the System Safety Department staff for comment and concurrence.

The department involved with the design of a project or modification prepares analyses in the following manner:

1. A Safety Engineer is assigned to monitor the progress of the project or modification. Liaison is established to gain familiarity with the project's technical details.
2. In the early stages of review, proposed modifications that have a potential safety impact are identified and a commitment by Engineering is established for the preparation of appropriate safety analyses. The final installation or construction of such modifications is prohibited until the analyses have been completed and reviewed by the System Safety Department. Specific existing safety-critical systems or related procedures may be identified by the Engineering or System Safety Departments, for which system safety analyses are required.
3. The System Safety Department review of system safety analyses is designed to achieve the following objectives:
 - a. Technical Accuracy – Description of system is correct and adequate.
 - b. Completeness – All known potential failure modes and their effects on the system have been analyzed.
 - c. Correct Conclusions – Reasonable conclusions are reached based upon analyses.
 - d. Risk Assessment – Make a final determination of the risk assessment based upon review of analyses.
 - e. Adequacy of Project or Modification – Make a judgment as to whether or not safety is compromised should the project or modification be implemented.

The System Safety Department staff is responsible for making risk assessments of situations, such as facility or equipment functionality/maintenance, use of certain chemicals, application of certain rules or procedures, etc. These risk assessments are used to determine if the situation in fact represents an unacceptable or undesirable hazard and is reportable to management. As a guide in making such determinations, the Hazard Resolution Matrix is used. This matrix is for both formal operations and construction project hazard analysis.

Hazard resolution requires a commitment by the responsible department management to correct or mitigate all identified "unacceptable" and "undesirable" hazards to an acceptable level. The Chief Safety Officer is responsible for implementing the District's safety policy.

It is thus the responsibility of the Chief Safety Officer to provide the General Manager with the District's safety goals and objectives and keep him/her informed of their levels of attainment and of any extraordinary safety matters which may have significant District impact.

Formal reporting from the Chief Safety Officer to other District organizations is addressed to the Department Heads, for it is their responsibility to ensure implementation of safety-related tasks within

their organizations. The Safety Staff have access to all District personnel, which encourages face-to-face informal information flow.

The System Safety Department periodically audits on-going projects, modifications, maintenance activities, and other selected District activities, to ensure that adequate corrective action is being performed in a timely manner.

Preliminary Hazard Analysis for Construction Project Hazard Evaluation

An assessment of the potential hazards and possible safety mitigation measures that may be associated with the implementation of a major construction project such as a system extension will be conducted. The Preliminary Hazard Analysis (PHA), performed in the Preliminary Engineering phase, provides an initial assessment of hazards, and identifies possible controls and follow-on actions to eliminate or mitigate the hazards. The PHA will be performed in accordance with the Safety and Security Certification Plan (SSCP), Hazard Vulnerability Management. All identified hazards shall be tracked through to resolution. Although the PHA will provide a useful checklist for guiding design reviews, formal verification that the identified hazards are closed will occur in subsequent safety analyses and/or during the Safety Certification process.

Methodology: An inductive, or top-down, approach will be employed in the preliminary hazard analyses. Significant or top-level events (i.e. hazards) will be initially identified, followed by what might cause them, and then by a determination of what might be their effect on the total system.

Identification of Hazards: The methods used for identifying hazards contained in a PHA might include examining the design and operation concepts defined in the Construction Project's preliminary engineering specifications and drawings and examining historical information and data from similar transit systems. Where references are made to operating procedures, rules, etc., they are based on current industry practices. Hazards likely to result in an accident involving personal injury, death, or property damage will be identified.

Each potential hazard will be analyzed to determine likely causes and effects of a related accident. Worst case consequences will be identified and described. The process involves the analysis of critical elements to identify components and equipment failure modes, their potential effects on all or part of the operating system, and the actions taken by personnel. Assessment and evaluation of the effectiveness of the mitigation measures and how well the engineered safety systems or procedures serve to prevent and/or mitigate the effects of the hazard will be conducted. Subsequently, after implementation of the identified hazard mitigation controls, the potential hazard severity can be alleviated to an acceptable level.

Resolution of Hazards: Mitigation of the risk associated with each hazard to the lowest practical level can be accomplished in a variety of ways. The order of precedence for eliminating or controlling hazards is:

- Eliminate the potential hazard in the system design
- Design to control potential hazards
- Use safety devices
- Use warning devices
- Implement procedures and training

There are some hazards that may be impossible to eliminate and other hazards that may be highly impractical to eliminate. When a potential hazard cannot be eliminated or controlled by system design, a systematic approach to mitigate the risk associated with each hazard to the lowest practical level can be accomplished in a variety of ways. Listed below are some examples of the accepted safety control methods used for the determination of a Category III or a Category IV Hazard as classified under “Controlled Hazard Severity.”

- Surveillance/Detection/Monitoring Devices
- Warning/Safety Devices
- Deterrence strategies/Access Control
- Engineering design change or implementation of engineering control
- Security and Patrol
- Public Awareness
- Employee adherence to operating rules, procedures, test plans, and cautionary notifications
- Employees, contractors, emergency response and rescue workers successful completion of:
 - Training/Drills
 - Required re-certification
- Performance of regular inspections and maintenance programs
- Equipment testing and field verification

Coordination with the State Oversight Agency: For construction projects, a hazard management program is an element of the Safety and Security Certification Plan (SSCP) that is subject to CPUC oversight. CPUC staff routinely monitors activities associated with the SSCP, and the Hazard Management Certificate of Compliance is ultimately submitted to the CPUC.

6.4 Transit Asset Management

In accordance with 49 CFR Part 625, BART has developed a Transit Asset Management Plan (TAM), which contains a comprehensive summary of all District assets and a rating of their condition. The TAM Plan includes a process for reviewing asset funding needs in the short and long term and is a proactive effort to assess hazards through the assessment of the condition of all District assets and the prioritization of projects to maintain the assets for safe operation. The overall goal of TAM Plan is to document the District’s asset management activities to demonstrate compliance with the FTA TAM rulemaking. The TAM Plan represents the agency’s commitment to implementing and continuously improving asset management activities across all agency operations and services. The TAM Plan can be made available from the Operations Planning Department that administers the District’s Asset Management Program.

7.0 Safety Assurance

The safety assurance process outlined below details the activities by which BART, E-Line, and OAC each monitor and measure their safety performances to ensure that they are meeting or exceeding the safety objectives set by the District. If the District or its modes identify safety risk through these safety performance assessments, then it must take action to correct the deficiencies.

Safety risk management feeds into the SMS safety assurance process to ensure safety risk mitigations are evaluated for effectiveness over time. The safety performance targets in Section 4.1 guide the safety

performance assessments of the safety assurance process. The safety risk management process identifies and evaluates safety risks, which are then assigned specific mitigations to correct the identified deficiency. The safety assurance process monitors those mitigations, and other safety practices, to evaluate their effectiveness.

Safety assurance activities include internal audit reviews, operation rules and procedures reviews, facilities and equipment inspections, maintenance audits and inspections, operating rule compliance checks, event reporting and investigation, the drug and alcohol program, and management of change procedures (i.e., procurement, system modification, safety certification), all of which serve as a foundation for continuous improvement processes (i.e., safety data acquisition and analysis, corrective action plans).

7.1 Safety Performance Monitoring and Measurement

7.1.1 Internal Safety Audit Reviews for BART

The District has established safety and security as the major considerations in all operations of its transit system. Internal safety and security audits are one of the methods to achieve this goal. The internal safety and security audit serves as a management tool that provides assistance in discovering possible problem areas.

CPUC has issued G.O. 164, which requires that the District (1) submit a schedule of internal safety and security audits to CPUC, (2) document the performance of internal safety and security audits in an annual report accompanied by a formal letter of certification signed by the General Manager indicating that the District is in compliance with its PTASP and System Security Plan (SSP), and (3) submit the report to CPUC. These requirements apply to BART and OAC. The OAC internal audit program is detailed in PTASP Section 7.1; however, the key distinctions between the two modes are highlighted throughout the BART internal audit program section below.

Scope of Activities

Under the direction of the General Manager, the Chief Safety Officer has overall responsibility for administering the Internal Safety and Security Audit Program. The System Safety Department is responsible to plan, schedule, and implement an internal safety and security audit program in compliance with state requirements. The OAC Line Manager is responsible for the planning, scheduling, and implementation of the OAC internal audit program.

Other departments, such as Maintenance and Engineering; Rolling Stock and Shops; Transportation; BART Police; Administration; and Planning, Development and Construction are responsible for providing support and assistance in the performance of safety and security audits and for implementing corrective action plans as required.

Typical audit activities may include record reviews, physical inspection of plants and equipment, interviews, and observations of operations and other line activities.

While ongoing inspections may be conducted on an unannounced, unscheduled, and independent basis, actual audits are typically performed on a coordinated basis, with full management support. Types of documentation that may be required to ensure audit completeness include but are not limited to the following: maintenance procedures, training manuals, equipment specifications, rules/regulations, management program plans, PTASP, standard operating procedures, emergency procedures,

configuration management plan, hazardous materials management plan, administrative procedures, rule book, train operators manual, safety rules, fire and life safety codes, and facilities standards.

Safety audits focus on safety related BART activities. Examples of audit areas include, but are not limited to the following:

- Safety and security documentation review and revision
- Hazard management program
- System modification review and approval process
- Safety certification of projects and extensions
- Emergency response planning, coordination, and training
- Safety data acquisition and analysis
- Accident/incident notification, investigation, and reporting
- Internal safety and security audit process
- Development, maintenance, and compliance with operating rules and procedures
- CPUC G.O. 172 and G.O. 175 compliance
- Performance of facilities inspections
- Inspection, testing, certification, maintenance, and repair of equipment and systems
- Training and certification of employees and contractors
- Configuration management
- Employee safety programs
- Hazardous materials program
- Drug and alcohol program
- Procurement control process
- Security Plan Compliance

Listed below are selected samples of a list of BART departments (organizational units), the associated elements/characteristics that are subject to the internal audit process and the reference criteria that would be used.

Maintenance and Engineering – Reliability Programs

- BART Engineering Change Orders (BECOs)
 - BECO Instructions
- Roadway Worker Protection Training, Certification, and Recertification
 - Operations Rules and Procedures Manual
 - BART PTASP
 - BART RWP Certification Training Program
 - Standard Procedure for Access to the BART Operating System
- Contractor Training and Certification
 - Operations Rules and Procedures Manual
 - Standard Procedure for Access to the BART Operating System
 - BART Contractor Certification Training Program

Transportation

- Training and Certification of Train Operators, Station Agents, and Tower Foreworkers
 - BART PTASP, Section 8.1 – Training and Certification

- Train Operator and Tower Foreworker Performance
 - BART PTASP
 - Section 8.1 – Train Operator Evaluations Program
 - Section 8.1 – Schedule of Training and Recertification
 - Operations Rules and Procedures Manual
 - Transportation Foreworker Manual
 - Train Operator Manual

Human Resources Department – Employee Services Division

- Drug and Alcohol Testing Program
 - 49 CFR Parts 655 and 40
 - BART PTASP – Section 7.5
 - BART Substance Abuse Program, Policies and Procedures Manual

Maintenance and Engineering – Grounds

- Monthly Fence Inspection
 - District Fence Inspection and Monthly Fence Report

Maintenance and Engineering – Traction and Power Wayside Electrical/Mechanical

- Third Rail Coverboard Inspection and Maintenance
 - Power and Way Electrical Maintenance Procedures, Book 31, Chapter 1, Section 17
- Standpipes and Associated Pumps in Walnut Creek, Berkeley Hills, and Transbay Tube Tunnels
 - Service Test Procedure for Horizontal Class I Standpipes in the Walnut Creek, Berkeley Hills, and Transbay Tunnels
- Station Fire Alarms and Sprinkler Systems
 - Periodic Maintenance Requirements for Fire Alarm and Fire Sprinkler Systems (Passenger Stations)
- Emergency Ventilation Fans
 - Power and Way Electrical Maintenance Procedures Book 31

Maintenance and Engineering – Track Wayside Grounds and Structures

- Weekly Track Inspection
 - BART's Track Standards Manual, Section S7.0 – Inspection
- Monthly Turnout Inspections
 - BART's Track Standards Manual, Section S7.0 – Inspection
- Quarterly Turnout Measurements
 - BART's Track Standards Manual, Section S7.0 – Inspection
- Special Inspection Requirements following Derailments and Switch Run Throughs
 - BART's Track Standards Manual, Section M7.10 – Special Inspections; Section M7.11 Derailments and Run-Through Switches
- Turnout Inspection
 - BART's Track Standards Manual, Section S6.0 – Turnouts and Track Crossing Diamonds
- Geometry Car Inspections
 - BART's Track Standards Manual, Section S7.0 – Inspection
- Internal Rail Defects Inspections
 - BART's Track Standards Manual, Section S7.0 – Inspection

- Joint Inspection of Switches
 - BART Track Safety Standards, Table S7.1

Maintenance and Engineering – Train Control

- Vital Relays
 - Vital Relay Preventative Maintenance Procedures, Train Control Maintenance Procedures
- Train Control Equipment Preventative Maintenance and Inspection
 - Train Control Preventative Maintenance Procedure
- Switch Machine Inspection and Maintenance
 - Model 55G Preventive Maintenance Procedure, Train Control Maintenance Procedures
- Joint Inspection of Switches
 - BART Track Safety Standards, Table S7.1

Maintenance and Engineering – AFC, Communications, Computers

- Emergency Telephones
 - BART Periodic Inspection Procedure for Emergency Phones

Rolling Stock and Shops

- Preventive Maintenance Program for Transit Vehicles
 - Book 86: A2/B2 – Car Preventive Maintenance Requirements
 - Book 50: C – Car Preventive Maintenance Requirements
 - RS&S Kiosk - D/E Car Intermediate Manuals

System Safety

- Operating Bulletins
 - BART PTASP, Section 6.2
- BART Safety Notices
 - BART PTASP, Section 5.5 and 6.1
 - Instructions for Processing BART Safety Notices Attached to Form No. 0836
- Station Safety Inspections
 - BART PTASP, Section 6.2 – Facilities Inspections
- Revision of the Operations Rules and Procedures Manual
 - CPUC Decision No. 95-12-034, dated 12-18-95
 - BART PTASP, Section 6.2
- Internal Safety and Security Audits
 - BART Safety Plan, Chapter 6
 - CPUC G.O. 164, Requirements for Internal Safety and Security Audits
 - CPUC G.O. 172, Use of Personal Electronic Devices
 - CPUC G.O. 175, Roadway Worker Protection

Internal Safety and Security Audit Process

The System Safety Department is authorized to conduct internal safety and security audits of any District department. To accomplish this, the System Safety Department has established the Internal Safety and Security Audit Process (ISSAP). Each process of the SMS and its associated activities, as outlined in the PTASP, are reviewed in accordance with the internal audit schedule. The System Safety Department

ensures that appropriate department managers receive copies of pertinent audit checklists with results and recommendations. Each recommendation requires the Department manager to implement the appropriate corrective action(s). Controls used to ensure that corrective actions are implemented and completed include the circulation of quarterly status reports to BART upper management.

The following steps will be followed in planning, scheduling, and performing safety and security audits:

- System Safety will publish an audit schedule annually. Audits will be scheduled throughout the year. The annual audit schedule should be provided to the CPUC. The schedule spreads audits of all PTASP topics over a three-year period.
- The assigned auditor will contact the manager of the department scheduled for audit. The manager of the department will be provided with the audit checklists in advance of the audit for preparation purposes.
- The auditor will notify the CPUC of scheduled audits a least 30 days prior to the audit date.
- Auditors shall be independent from the first line of supervision responsible for the activity being audited.
- Prior to the audit, the auditor will brief department personnel on the scope and purpose of the audit.
- The audit will be performed according to the checklists that have been prepared in advance by the auditor.
- Exceptions to the audit criteria will be noted on the checklists. Any exception noted by the auditor will be immediately brought to the attention of the department representative.
- Upon completion of the audit, the auditor will hold an exit meeting with department personnel to review and discuss the audit findings, exceptions, and any corrective actions that may be appropriate.
- The auditor will enter the audit results on the checklist. This will constitute the preliminary report including all findings, exceptions, and recommendations. The System Safety Department ensures that appropriate department managers receive copies of pertinent audit checklists with results and recommendations. Each recommendation requires the Department manager to implement the appropriate corrective action(s).
- The auditor will make contact with the department manager to discuss the preliminary report, which will have been circulated to the manager in advance.
- The purpose of the preliminary report contact will be to correct any errors in the preliminary report and to go over findings, exceptions, and conclusions and to develop appropriate correction action(s) that will be included in the final report.
- The final audit will be completed using the checklist form and will be distributed to BART management.

Cycle/Schedule

The ISSAP ensures that planned and scheduled internal safety and security reviews are performed to evaluate compliance with the PTASP and SSP. A three-year audit schedule will be developed to ensure that all PTASP and SSP elements are reviewed and evaluated during the audit cycle. During this review, the ISSAP will determine if all organizational elements, equipment, procedures, and functions are performing as intended from a safety and security perspective. Audit reports will be issued with recommendations to address all deficiencies and findings.

Checklists and Procedures

The District must notify the CPUC at least thirty (30) days before conducting any scheduled internal safety audits and reviews. A list of items to be audited will be prepared in advance and the methodology for conducting the audit will be defined. Audit activities may include record reviews, inspections, interviews, and observations of operations, maintenance, administrative and other line activities. The oversight agency retains the authority to observe each internal safety audit. For OAC, the District, with the support of the Operator and the designated auditing representative, will develop audit checklists and submit them to CPUC prior to the audit for review.

Audit Reporting

An audit report will be prepared to document the results of each internal audit and will be provided to all appropriate levels of management. At a minimum, this report will contain an overview of the activities performed, the completed checklists, and any findings, recommendations or concerns identified. CAPs are required in response to Internal Safety and Security Audit recommendations and must follow the requirements and steps listed in Section 7.8.

Annual Audit Report

System Safety will prepare an annual audit report, approved and signed by the CSO, documenting its activities and findings over the last year and submit this report to the General Manager/Accountable Executive, and subsequently the CPUC, for review and approval. The annual report will include the following:

- A description of each internal safety and security audit conducted during the past twelve months;
- A summary of the significant audit findings;
- A summary of corrective actions generated by each audit;
- The status all findings, recommendations, and corrective actions resulting from each audit; and
- The OAC Annual Internal Safety Audit Report.

The Annual Internal Safety and Security Audit Report will be accompanied by a formal letter of certification signed by the General Manager/Accountable Executive, indicating that BART is in compliance with its PTASP and SSP. If findings from its internal safety and security audits indicate that BART is not in compliance with its PTASP and SSP, then the General Manager must identify the activities that BART will take to achieve compliance. The oversight agency must formally review and approve the annual report.

Coordination with the Oversight Agency

The Internal Safety and Security Audit process and reporting must be coordinated with the CPUC. The state oversight agency may request completed reports and status updates regarding the implementation of recommendations.

7.1.2 Internal Safety Audit Reviews for OAC

Internal Audit Schedule

The District prepares and maintains a three-year audit schedule to verify compliance with the PTASP and SSP. Each element is audited at least once during the three-year cycle. The District submits the schedules, including any subsequent changes, to CPUC staff at least 30 days prior to conducting the audits or when a new three-year cycle begins. The OAC Line Manager is responsible for ensuring that the

internal audit schedule is maintained and for ensuring corrective actions are tracked through completion.

The District reserves the right to perform unannounced and unscheduled inspections, which may not be part of the formal internal audit plan.

Safety Audit Reporting

Each process of the SMS and its associated activities, as outlined in the PTASP, are reviewed in accordance with the Internal Audit Schedule. At the conclusion of individual element audits, a report is to be submitted for follow-up action.

The audit report shall state the results of the audit in terms of the adequacy and effectiveness of the PTASP and shall include the status of subsequent findings and corrective actions. The audit report shall include the following information:

- Scope and methodology of audit
- Audit checklists
- Audit findings
- Corrective actions

CAPs are required in response to Internal Safety and Security Audit recommendations and must follow the requirements and steps listed in Section 7.8.

If necessary, the Operator shall meet with the OAC Line Manager to review and discuss the findings. If a dispute exists, the Operator's O&M Manager and the Line Manager share the authority in resolving the dispute and any corrective actions noted in the audit report.

A final report is issued to the Line Manager and CSO with 60 days of the audit date.

Annual Audit Reporting

Prior to December 15 of each year, a draft Annual Internal Safety Audit Report for OAC is prepared by the Operator and issued to the Line Manager for review and comment. The report is a compilation of the individual element audit reports performed during the year and shall state the results of each audit in terms of the adequacy and effectiveness of the PTASP. It shall also include the status of subsequent findings and corrective actions. The Operator and the Line Manager shall work together to finalize the report, and the Operator shall submit the final report to the Line Manager no later than January 15.

The Line Manager issues a memorandum transmitting the Final Annual Internal Audit Report to the CSO and General Manager/Accountable Executive and indicates that the OAC is in compliance with the relevant sections of the PTASP. If compliance cannot be certified, the memorandum shall identify the activities that are being taken to achieve compliance.

Prior to February 15 of each year, the District will submit the Annual Audit Report to CPUC together with a certification letter signed by the General Manager/Accountable Executive indicating OAC is in compliance with the PTASP. If BART cannot certify PTASP compliance, the letter is provided with the audit report that identifies the activities that are being taken to achieve compliance. BART will include the OAC's Annual Internal Audit Report with its annual audit report submittal, described in Section 7.1 above. CPUC reviews and approves the report or notes areas requiring correction. The Operator and/or BART Safety may revise the report and resubmit it or petition CPUC to approve the final report.

7.2 Rules Compliance

Operating rules and procedures are conveyed differently depending on the District mode. For BART, these rules and procedures are conveyed in various general and specialized rulebooks, operating bulletins specific to BART, and BART standard operating procedures (SOPs). For E-Line, rules and procedures can be found in the E-Line Code of Operating Rules (eCOR), E-Line-specific operating bulletins, and E-Line SOPs. OAC uses its own O&M Manual, rulebooks, and SOPs. The rules and procedures that affect passenger and employee safety are subject to compliance monitoring activities. These safety-critical rules and procedures may also be reviewed and audited during the Internal Safety and Security Audit. Accountability for safety rests with each employee, supervisor, and manager. All are responsible for meeting the safety requirements inherent to their positions.

7.2.1 BART Operations

The Operations Rules and Procedures Manual contains those rules and procedures governing BART operation and are applicable to all District employees, contractors, and others working on District property. Compliance with the Operating Rules and Procedures (OR&P) is essential to the safe operation of the BART system. All other manuals shall be supplementary to and not conflict with the OR&P Manual.

The Chief Safety Officer (CSO) has the authority and responsibility for development and control of the District OR&P Manual, Roadway Worker Protection Manual, and Operating Bulletins.

Supplementary Operations Manuals address a specific job assignment or function within a department, division or section. These manuals shall be developed, issued, implemented, and controlled by the issuing department.

Supplementary Operations Manuals include:

- Operations Control Center Rules and Procedures Manual
- Train Operator Manual
- Station Agent Manual
- Transportation Foreworker Manual (Tower Foreworker Manual)
- Maintenance and Engineering Track Standards

Review and Revision of Rules and Procedures for BART

To be in compliance with CPUC Decision No. 95-12-034, BART will annually review and revise, as needed, the OR&P Manual, supplementary operations manuals, and operating bulletins to ensure that the manuals are up to date in all respects and that appropriate revisions will be prepared and issued as dictated by the results of the required annual reviews.

The Chief Safety Officer is responsible for the review, revision, control and distribution of the OR&P Manual and Operating Bulletins. The department manager of the issuing department is responsible for the review, revision, control and distribution of Supplementary Operations Manuals. Deviations from this procedure must be approved by the Chief Safety Officer.

Review:

OR&P Manual:

An annual review (including Operating Bulletins) with revision, as required, shall be the responsibility of the Chief Safety Officer and shall occur at the beginning of the calendar year (as operational requirements dictate).

The results of the annual review of the OR&P Manual and active Operating Bulletins shall be documented in a memorandum to file. The memorandum to file should provide a summary of the results of the review and the CSO determination as to whether a revision is required.

Revisions:

OR&P Manual:

The revision process for the OR&P Manual is as follows:

- Determine if requests for revision have been made to the Chief Safety Officer by department manager.
- If requests have been made, the Chief Safety Officer will determine whether a rules committee should be formed to review and recommend approval of the revision to affected department managers.
- The Chief Safety Officer or designee shall review active operating bulletins and determine whether any should be incorporated in the Operations Rules and Procedures Manual.
- To ensure standardization, these revisions shall receive concurrence from all department managers affected.

The revision process for Supplementary Operations Manuals is as follows:

- Department managers may revise Supplementary Operations Manuals with documents other than the OR&P Manual. Such revisions shall be in writing and signed by the Department Manager.

The revision process for Operating Bulletins is as follows:

- Operating Bulletins are reviewed each year with the OR&P Manual. Operating Bulletins are either incorporated into the OR&P Manual (by revision), cancelled or renumbered and reissued.

Personnel Responsibility:

- It shall be the responsibility of personnel receiving revised pages of a manual to insert them in proper sequence.
- Operating Bulletins should be distributed to or otherwise made available to personnel who could be affected by the Operating Bulletin.
- The department manager is responsible for ensuring that all personnel under his/her jurisdiction receive revisions to manuals and applicable operating bulletins.

Records and Documentation:

- Revised pages shall indicate revision number and/or revision date and the rule change.
- Revisions to the OR&P Manual and Supplementary Operations Manuals may be issued on an Operating Bulletin.

- Authorization for printing the OR&P Manual, in whole or in part, shall be the responsibility of the Chief Safety Officer.
- Records and documentation of the Operations Rules and Procedures Manual shall be maintained by the Documentation Division of Maintenance and Engineering.
- Revisions to the OR&P Manual shall be distributed to all District personnel with records of distribution maintained by each Department. The initial issue of the OR&P Manual to new hire employees is the responsibility of Human Resources. The CPUC, Rail Transit Safety Section, shall be provided with all revisions.

Process for Ensuring Rules Compliance

The District uses three processes to evaluate compliance with appropriate safety rules: 1) Train Operator Evaluations Program, 2) Internal Safety and Security Audit Program, and 3) Operations Safety Compliance Program. The results of these processes are reviewed and areas requiring attention are discussed with supervision. Plans to address rules compliance issues are developed with appropriate supervision.

Train Operator Evaluations Program

The Train Operator Evaluations Program consists of observations performed by Operations Supervision to determine whether or not train operators are adhering to the District's operating rules. For each evaluation, a checklist is completed by the Supervisor and the results of the evaluation are discussed with the Train Operator. All observed rule violations, if any, are enforced by the applicable Line Manager. Disciplinary action is administered in accordance with District policy.

At least once in every three-year audit cycle, the System Safety Department audits the Transportation Department. The audit includes a records review of the Train Operator Evaluations Program and firsthand observations of train operator performance on main line and in yards. More information on the internal safety and security audits can be found in Section 7.1.

Operations Safety Compliance Program

The Operations Safety Compliance Program consists of exercises and evaluations of appropriate safety rules and procedures while operating on-rail vehicles on mainline, in yards, and in shop local control areas, and in performing other safety-related assignments in the District.

There are three primary departments covered by the Program: Transportation, Maintenance and Engineering, and Rolling Stock and Shops. Operations Liaison have a separate Operations Safety Compliance Program Plan (OSCP). Each primary department is required to develop an OSCP that contains 1) the safety aspects that will be covered, 2) the frequency of safety compliance exercises, 3) the format of the standard checklists that will be used, and 4) the responsibilities for the various program activities.

Additionally, CPUC G.O. 172, Rules and Regulations Governing the Use of Personal Electronic Devices by Employees of Rail Transit Agencies and Rail Fixed Guideway Systems, requires each transit agency to develop a program to monitor compliance with the requirements governing personal electronic device use. In accordance, the monitoring and enforcement program is as follows:

- Random compliance checks shall be conducted on at least 10% of the rail transit vehicle operator population per quarter. Prior to the installation of in-cab cameras, this activity shall be

performed by field observations. After in-cab cameras are installed, the monitoring may be performed by reviewing audio and video recordings.

- Operational evaluations and/or inspections shall be maintained for a minimum of three (3) years.

BART G.O. 172 zero tolerance policy on use of personal electronic devices defines the District policy and rules restricting the use of PEDs, clearly establishes the mandatory discipline associated with any violation of the policy and details the procedures by which an employee may appeal such discipline. The current G.O. 172 zero tolerance policies for the labor unions are available from the Labor Relations Department. In addition, emergency contact procedures by which employees can be contacted in the event of a personal or family emergency were established by the Operations departments and are available at the control center having jurisdiction.

Individual departments conducting the evaluations will review the results on an annual basis to help identify weaknesses in rule compliance and provide focus for future compliance checks. Whenever this review identifies consistent non-compliance in a particular safety area, the concern will be submitted to the System Safety Department for evaluation. The System Safety Department will evaluate the concern using the hazard resolution matrix shown in Table 6-1 in Chapter 6. Unacceptable and undesirable hazards as defined by the table will be resolved to acceptable levels by the System Safety Department. Resolution of the unacceptable and undesirable hazards related to this program could take various forms, including rule revisions, additional training, changes in work methods, changes in District or Departmental policies, and discipline. All identified unacceptable hazards will be tracked through resolution, as described in Section 6.2, and coordination with the SSOA will be conducted.

7.2.2 E-Line Operations

eCOR contains those rules and procedures governing the operation of E-Line and are applicable to all E-Line employees. Compliance with the eCOR is essential to the safe operation of the E-Line system. All other manuals shall be supplementary to the eCOR and shall not conflict.

E-Line General Orders are issued to modify current eCOR operating rules or to address an urgent operating requirement and shall be in effect from their effective date until canceled. All General Orders that have significant safety implications will be reviewed by the System Safety Department. E-Line Bulletins are issued to modify departmental procedures and shall be in effect from their effective date until canceled.

The Chief Safety Officer (CSO) has the authority and responsibility for development and control of the eCOR and E-Line General Orders. Department Superintendents have the authority and responsibility for development and control of E-Line bulletins.

E-Line will utilize all applicable rules, regulations, CPUC general orders, 49 CFR Parts 200 – 299, and American Public Transportation Association standards to develop its rule set and procedures. The DMU Engineer's and the Controller's Manual will be developed in part, using source materials from the original equipment manufacturer.

Review and Revision of Rules and Procedures

E-Line annually reviews and revises, as needed, the eCOR, supplementary operations manuals, G.O.s, and bulletins to ensure that the manuals are up to date in all respects and that appropriate revisions are prepared and issued, as dictated by the results of the required annual reviews.

The CSO is responsible for the review, revision, control, and distribution of eCOR, G.O.s, and bulletins. The department manager of the issuing department is responsible for the review, revision, control, and distribution of supplementary departmental bulletins and manuals. Deviations from this procedure must be approved by the CSO.

Personnel responsibility in regard to disseminating information pertaining to manuals and bulletins include, but are not limited to, the following:

- Receiving revised pages of a manual to insert them in proper sequence.
- Distributing G.O.s and bulletins to, or otherwise made available to, personnel who could be affected; and
- Performing compliance checks to ensure employees are in possession of the required documents when performing their duties.
- The Department Manager is responsible for ensuring that all personnel under his/her jurisdiction receive revisions to manuals and applicable G.O.s and bulletins.

Revised pages to the eCOR shall indicate revision number and/or revision date and the rule changes. CPUC shall be provided with all revisions.

Process for Ensuring Rules Compliance

E-Line uses three processes to evaluate compliance with appropriate safety rules: 1) DMU Engineer Evaluations Program, 2) Internal Safety and Security Audit Program, and 3) Operations Safety Compliance Program. The results of these processes are reviewed and areas requiring attention are discussed with supervision. Plans to address rules compliance issues are developed with appropriate supervision.

DMU Engineer Evaluations Program

The DMU Engineering Evaluations Program consists of observations performed by the E-Line Road Supervisor of Engines to determine whether or not DMU Engineers are adhering to the E-Line operating rules. For each evaluation, a checklist is completed by the Supervisor and the results of the evaluation are discussed with the DMU Engineer. All observed rule violations, if any, are enforced by the applicable Asst. Superintendent. Corrective action is administered in accordance with E-Line Collective Bargaining Agreement or by policy.

At least once in every three-year audit cycle, the System Safety Department staff audits the overall E-Line Engineer Evaluations program. The audit includes a records review of the DMU Engineer Evaluations Program, firsthand observations of DMU Engineer performance on main line and in yards, and efficiency checks to ensure adequate DMU Engineer response to unexpected events.

Operations Safety Compliance Program

There is a management procedure for Operations Safety Compliance Program. The program calls for exercises and evaluations to be performed regarding the adherence to appropriate safety rules and

procedures while operating on-rail vehicles on mainline, in yards, in shop tracks, and performing various other safety-related assignments at E-Line.

Additionally, CPUC G.O. 172, Rules and Regulations Governing the Use of Personal Electronic Devices by Employees of Rail Transit Agencies and Rail Fixed Guideway Systems, requires each transit agency to develop a program to monitor compliance with the requirements governing personal electronic device use. In accordance, the monitoring program is as follows:

- Random compliance checks shall be conducted on at least 10 percent of the rail transit vehicle operator population per quarter.
- Operational evaluations and/or inspections shall be maintained for a minimum of three years.

E-Line Road Supervisor of Engines will review the results of rules compliance on an annual basis to help identify and provide focus for future compliance checks. Whenever this review identifies consistent non-compliance in a particular safety area, the concern will be submitted to the System Safety Department staff for evaluation. The System Safety Department staff will evaluate the concern using the hazard resolution matrix shown in Section 6.2. Unacceptable and undesirable hazards, as defined by the table, will be resolved to acceptable levels by the System Safety Department. Resolution of the unacceptable and undesirable hazards related to this program could take various forms, including rule revisions, additional training, changes in work methods, changes in E-Line policies, and discipline. All identified unacceptable hazards will be track through resolution as described in Section 6.

7.2.3 OAC Operations

The Operator maintains safety-related rules and procedures within the O&M Manual, rulebooks, and SOPs. Procedures having an impact on safety must be strictly followed by Operator personnel to the extent possible. The Operator annually reviews its safety-related rules and procedures for their effectiveness and revises to ensure they are updated as necessary based on previous occurrences of incidents, near-misses, and safety concerns noted by personnel. The Operator conducts testing and observations to ensure compliance to rules and procedures having a safety impact.

Rules and Procedures Subject to Review

As part of the annual review, the Operator monitors changes to rules and regulations having a safety impact that are pertinent to the operation of OAC. Such monitoring includes a review of new sections or revisions to relevant state regulations, CPUC G.O.s, Cal/OSHA requirements, Automated People Mover standards (ASCE 21 series) and other relevant sources (FTA, TSA, etc.). When this review identifies any necessary changes to the safety rules and procedures, the revisions will be incorporated into the necessary documents and may be subject to District review and approval.

Implementation of Rules and Procedures

The Operator's training plan outlines the Operator's policies to train employees to safely perform their duties. The Operator provides initial and refresher training to all personnel, which includes evaluation of personnel understanding of rules compliance and procedures that may include written and practical testing. Training is perpetual and the Operator's training plan should be referenced for more specific information. Training is monitored by the SMS Manager, who reports to the CSO. If a significant failure occurs, the SMS Manager is accountable for reporting it to the CSO.

7.2.4 BART Facilities and Equipment

Facilities and Equipment Subject to Inspection

The System Safety Department and the Fire Life Safety Department staff will conduct safety inspections of passenger stations, maintenance and storage facilities, and administrative facilities. Each station is inspected at least once every twelve months within a calendar year. All shops/maintenance facilities and office facilities are inspected at least once every twelve months within a calendar year.

All inspections are primarily focused on the identifications of Cal/OSHA-type violations. As an aid to facilitate an inspection, the assigned System Safety staff member may use the Station Inspection/Audit Checklist to note potential and/or actual unsafe conditions during inspections of stations.

These inspections provide safety data which is used to inform staff about the State of Good Repair status regarding the infrastructure.

Regular Inspection and Testing

Passenger Stations

Each station is inspected at least once every twelve months within a calendar year. As an aid to facilitate an inspection, the assigned System Safety staff member may use the Station Inspection/Audit Checklist to note potential and/or actual unsafe conditions including, but not limited to:

- Combustible/Flammable/Hazardous Materials
- Debris/Trash
- Ventilation of Floor Scrubbers and Battery Rooms
- Fire Hose Cabinet Damage
- Fire Extinguishers
- Trip/Fall Hazards
- Non-Skid Needs
- Emergency Exit Doors Panic Hardware/Alarm Operation
- Lighting
- Missing Electrical Outlet Covers
- Annunciator Lamps Operation
- Elevator Phone Operation
- Elevator Controls Operation
- Keyed PA Phone Operation
- PABX Operation
- Potholes/Uneven Walking Surfaces

Train Control Rooms, Electrical Equipment Rooms, Elevator Equipment Rooms, Maintenance and Storage Facilities

All Train Control rooms, Electrical Equipment rooms, Elevator Equipment rooms, shops, and maintenance facilities are inspected at least once every twelve months within a calendar year. All assigned safety personnel/inspector may use a standardized Inspection Report to note potential and/or actual unsafe conditions during inspections of maintenance and storage facilities. These include but are not limited to the following:

- Electrical Apparatus
 - Proper working conditions of equipment, including proper grounding and covers of electrical outlets/electrical equipment
- Emergency Equipment
 - Access to emergency fire extinguishers
 - Tags on emergency fire extinguishers
- Buildings
 - Proper lighting levels
 - Designated exits by approved signage
 - Portable ladders equipped with safety equipment
 - Adequate clearance maintained around electrical equipment
 - Proper storage of oily rags and waste containers
 - Properly maintained emergency eye wash facilities
 - Proper protective clothing and hats worn in work pit areas and other designated “hard hat” areas
 - Good general housekeeping
- Hazardous Materials Management
 - Proper labeling of “hazardous waste”
 - Drums of all products clearly marked/labeled
- Storage
 - Gas cylinders properly secured and stored
 - Parts, chemicals, and equipment stored properly
 - Proper clearance for fire lanes and exits
 - Storage area kept clear of dangerous depressions and tripping hazards
 - Materials not specifically associated with these facilities are not to be stored in controlled area, such as train control rooms, communications rooms, electrical rooms, or within traction power substations.
- Respirators
 - Respirators properly stored
 - Inspection records of respirators are kept current

Coordination with Safety Risk and Hazard Management Process

Potential hazards identified during these safety inspections are documented through resolution. The results of the facility inspections are sent to the department management responsible for the maintenance of the facility with a request for a reply on the status of the required corrective action. The cover letter requests the date of abatement, or schedule of abatement, of the identified hazards. Those hazards that are deemed to present an imminent danger are also immediately phoned-in and/or emailed to the department management responsible for the maintenance of said facility.

7.2.5 OAC Facilities & Equipment

The Operator is responsible for regularly inspecting the OAC facilities and equipment to identify safety concerns. These inspections are part of the preventive maintenance program. Findings of the preventive

maintenance activities are recorded, along with corrective action plans which are tracked to closure in the Maintenance Management Information System (MMIS).

Identification of Facilities and Equipment to be Inspected

Facilities and equipment regularly inspected or tested for safety include:

- Emergency exits
- Fire extinguishers
- Fire management systems
- Fire hazards
- Building and facility security
- Fall arrest equipment
- Blue Light Stations
- Vehicle braking
- Station doors
- Vehicle doors
- Calibrated tools
- Condition of safety-relevant vehicle equipment

Techniques Used to Conduct Inspections

Inspections are carried out in a variety of ways. Some inspections are visual. Each shift for each station will visually check for fire hazards and clear emergency exits. Others involve actual testing of the closing force of doors or verifying function of the Blue Light Stations. The specific steps to be carried out for each inspection are listed in the O&M Manual.

MMIS

A Maintenance Management and Information System (MMIS) tracks all system preventive maintenance and inspections based on time, mileage or cycle counts. The inspection checklist from the MMIS identifies the items to be inspected and provides a place for the inspector to indicate pass/fail criteria. It also provides a place to record any deficiencies and corrective actions that need to be taken. The checklist includes the following items:

- Date of inspection
- Name of facility and/or equipment inspected
- Properties to be inspected
- Punch list of outstanding items/ongoing maintenance monitoring
- Pass/fail criteria
- Record of observed deficiencies
- Printed name and signature or initial of inspector
- Printed name and signature or initial of manager

Results of Safety Inspections

Findings may be corrected on the spot or documented, or a follow-up Corrective Work Order is created. When equipment is found to be out of tolerance, the system or subsystem is taken out of service until appropriate remedial action can be taken. The equipment under investigation will only be declared “Fit

for Service” following successful functional/safety acceptance testing. For each finding, consideration should be given to the Hazard Management Process to accept, reject or mitigate the findings.

If maintenance actions or inspections of these (or any other safety-relevant) elements identify an unacceptable hazard, the Hazard Management Process identified in Section 6 shall be used to eliminate or mitigate the hazard.

The Operator provides record of maintenance to the District for review and approval on a monthly basis.

7.3 Maintenance Audits and Inspections

7.3.1 BART

Systems and Facilities Subject to Maintenance Program

Track Inspection and Maintenance: The Track/Wayside/Grounds/Structures Division of the Maintenance and Engineering Department is responsible for the inspection and maintenance of the District’s trackwork. The frequency and scope of inspections are detailed in the Track Safety and Maintenance Standards.

The following table outlines the track inspection activities, frequencies, inspection methods, and the referenced criteria used.

Table 7.1: BART Track Inspection Frequencies

Inspection Activity	Frequency	Inspection Methods	Referenced Criteria
1. Mainline track	Weekly	Visually inspected by hi-rail vehicle and on-train inspections	Track Standards, Section S7.0 – Inspections
2. Mainline and yard turnouts	Monthly	Visually inspected on foot	Track Standards, Section S7.0
3. All mainline turnouts and crossing diamonds	Quarterly	Dimensionally inspected	Track Standards, Section S7.0
4. Track involved in a derailment and/or run-through switch incident	As soon as possible following the incident	Special inspections	Track Standards M7.11
5. Mainline track (including turnouts)	Twice Yearly	Geometry car inspections	Track Standards, Section S7.0
6. Mainline track (including turnouts)	Twice Yearly	Internal rail defects inspections (inspected by ultrasonic examination or another non-destructive test method)	Track Standards, Section S7.0

Train Control Inspections and Maintenance: The Train Control Division of the Maintenance and Engineering Department is responsible for the inspection and maintenance of the District’s train control system. The frequency and scope of inspections and the maintenance procedures are detailed in the Train Control Maintenance Manual available from the District’s Chief Engineer and in the Maximo database available at Systems Maintenance.

The following table outlines the train control inspection activities, frequencies, inspection methods, and referenced criteria used.

Table 7.2: BART Train Control Inspection Frequencies

Inspection Activity	Frequency	Inspection Method	Referenced Criteria
1. Mainline and yard track switches	Monthly	Visual inspection, obstruction tests	Models GM4000A and 55G Switch PM Procedure
2. Vane relays, vital relays	Every 2 Years (Vane) Every 4 Years (Vital)	Visual inspection, pick and drop tests	Vane Relay and Vital Relay PM Procedures
3. Vital timer relays	Every Year	Visual inspection, check timer duration	Vital Relay Timer PM Procedure
4. Audio frequency track circuits	Every 2 Years	Visual inspection, check track circuit sensitivity and settings	AF Track Circuit PM Procedure
5. Power frequency track circuits	Every 2 Years	Visual inspection, check track circuit sensitivity and settings	PF Track Circuit PM Procedure
6. Interlocking	Every 2 Years	Visual inspection, functional checks	Interlocking PM Procedure
7. Train control room	Every 6 Months	Visual inspection, power supply levels and isolation	Train Control Room PM Procedure
8. New station mux	Every 2 Years	Visual inspection, power supply levels and isolation	New Station Mux PM Procedure

Validation System Inspection and Maintenance: The Traction Power Division of the Maintenance and Engineering Department is responsible for the inspection and maintenance of the District’s ventilation system. The frequency and scope of inspections and the maintenance procedures are detailed in Mechanical Maintenance Procedures, Book 4 and Electrical Maintenance Procedures, Book 31.

The following table outlines the ventilation system inspection activities, frequencies, inspection methods, and the referenced criteria used.

Table 7.3: BART Ventilation System Inspection Frequencies

Inspection Activity	Frequency	Inspection Methods	Referenced Criteria
1. Line fan and damper electrical PM	Once Every 3 Months	Visual inspection and operation. Check elec. connections and contacts, room condition	Line Vent Fans PM Procedure Book 4, Vol 1
2. Line fan and damper electrical PM	Annual PM	Same as above plus amperage motor readings and Meggering motor leads	Line Vent Fans PM Procedure Book 4, Vol 1
3. Line fan and damper mechanical PM	Once Every 3 Months and Annual	Visual inspection and operational check, torque blades, lube motor and damper linkage	Line Vent Fans PM Procedure Book 4, Vol 1

Communication Equipment Inspections and Maintenance: The Automatic Fare Collection/Communications/Computers Division of the Maintenance and Engineering Department is responsible for the inspection and maintenance of the District’s communication equipment. The frequency and scope of inspections and the maintenance procedures are detailed in the Maximo database.

The following table outlines the communication equipment inspection activities, frequencies, inspection methods, and the referenced criteria used.

Table 7.4: BART Communications Equipment Inspection Frequencies

Inspection Activity	Frequency	Inspection Methods	Referenced Criteria
1. Trunked Radio	Annual	Visual inspection, measure system parameters, function tests	Underground Radio System PM Procedure
2. Emergency Telephones	Once Every 3 Months	Visual inspection functional test	Wayside ET and Special Phone Inspection Procedures
3. Emergency Communications	60 Days or Once Every 2 Months	Visual inspection, functional tests, backup battery checks	Wayside Communications, Vertical Fire Phone, and Fire Radio Call Box Procedures
4. SCADA	Annual	Visual inspection, check power supplies, system check	SCADA Inspection Procedure
5. CCTV – Critical	Semi-Annual	Visual inspection, cleaning, functional check	CCTV Inspection and Maintenance Procedure
6. BART.NET	90 Days	BART.NET System Testing check	BART.NET System Testing Procedure
7. New RTACs and other PLCs installed with new TPSS systems in A75 and C88	Annual		

Revenue Vehicle Inspections and Maintenance: The Rolling Stock and Shops Department is responsible for the inspection and maintenance of the District's revenue vehicles. The Preventive Maintenance Program for Transit Vehicles is referenced in Book 86, Volume 14: A2/B2 – Car Preventive Maintenance Requirements and Book 50, Volume 14: C1/C2 – Car Preventive Maintenance Matrix. For each car, completed PM check sheets, Maintenance Discrepancy/Correction sheets (D and C sheets) and Vehicle Workbooks are available to determine whether or not the required PMs are being performed during the required time limits, and if the required inspection and maintenance activities are signed off appropriately by the responsible maintenance workers, inspection workers, and Foreworkers. The frequency and scope of inspections and the preventive maintenance activities are detailed in the applicable PM Procedures outlined from Books 42 (Automatic Train Control), 50, and 86.

The following table outlines the revenue vehicle inspection activities, frequencies, inspection methods, and the referenced criteria used.

Table 7.5: BART Revenue Vehicle Inspection Frequencies

Inspection Activity	Frequency	Inspection Methods	Referenced Criteria
1. C1/C2 Car Vehicle Preventive Maintenance and Inspection	Every 600 Operating Hours	Replacement of consumables (oil, grease, filters), Visual, Functional Checks, Measure for condemning limits	Book 50, Volume 14
2. A2/B2 Car Vehicle Preventive Maintenance and Inspection	Every 800 Operating Hours	Replacement of consumables (oil, grease, filters), Visual, Functional Checks, Measure for condemning limits	Book 86, Volume 14
3. D Car Vehicle Preventive Maintenance and Inspection	Every 900 Operating Hours	Replacement of consumables (oil, grease, filters), Visual, Functional Checks, Measure for condemning limits	RS&S Kiosk - D/E Car Intermediate Manuals
4. E Car Vehicle Preventive Maintenance and Inspection	Every 900 Operating Hours	Replacement of consumables (oil, grease, filters), Visual, Functional Checks, Measure for condemning limits	RS&S Kiosk - D/E Car Intermediate Manuals

Fence Inspection: The Track/Wayside/Grounds/Structures Division is responsible for the monthly inspection, and repairs of mainline fencing. Records are maintained in the Way and Facilities Scheduled Right of Way Barrier Inspection Report, which also notes defects and corrected repairs.

The following table outlines the fence inspection activities, frequencies, inspection methods, and the referenced criteria used.

Table 7.6: BART Fence Inspection Frequency

Inspection Activity	Frequency	Inspection Methods	Referenced Criteria
1. Fence inspection	Monthly	Visual Observation	CPUC G.O. 95

Resolution of Audit/Inspection Findings

Safety-critical systems and facilities are inspected on a regular basis to identify existing hazards and ensure that such hazards are mitigated in a timely manner. BART inspection and repair manuals are available to the personnel responsible in performing these duties. The inspection and maintenance manuals are under the control of the Documentation Division, which is responsible for the distribution of such documents and their revisions. Only replacement parts that meet BART specifications may be used in the repair of safety-critical systems.

Safety critical systems, such as track, structures, train control, transit vehicles, tunnel ventilation and flood control, elevators, escalators, and communications are inspected/tested and/or serviced on a scheduled, periodic basis. Should such systems be found in a failed or out-of-tolerance condition, in such a manner that would present a hazard, applicable operations will be restricted to maintain safety until such time an appropriate remedial action has been completed. Equipment found to be in a failed or out-of-tolerance condition are recorded and tracked by the responsible maintenance department. These discrepancies are not to be closed out until repairs are completed. In the case of transit vehicle maintenance, should a vehicle not receive the prescribed preventive maintenance within the required maintenance schedule, the vehicle is to be withheld from revenue service.

The System Safety Department performs Internal Safety and Security Audits of maintenance activities for safety critical systems. These audits focus on adherence to schedule, application of standards and procedures, and recordkeeping.

Checklists

All assigned safety personnel/inspectors may use a written checklist to document the maintenance audits.

7.3.2 E-Line

Systems and Facilities Subject to Maintenance Program

District personnel will inspect all applicable E-Line facilities and equipment to identify safety concerns. Inspection procedures are performed in compliance with applicable CPUC, FTA, FRA regulations and APTA standards for transit vehicle inspections, maintenance, repairs, and regulatory documentation. These inspections will be part of the preventive maintenance program. Findings of the preventive maintenance activities will be recorded, along with the corrective actions, which will be tracked to closure in the MMIS called Maximo.

Maximo will track all system preventive maintenance and inspections based on time, mileage or cycle counts. The inspection checklist from Maximo will identify the items to be inspected. The checklist will include the following items:

- Date of inspection
- Name of facility and/or equipment inspected
- Items to be inspected
- Record of observed deficiencies
- Follow-up Work Order, if needed
- Employee number of the person performing the work
- Employee number of the reviewing manager

Findings discovered during the course of the inspection are addressed through documentation and assignment of corrective action work orders in Maximo. Any findings that are corrected immediately will be addressed and noted in Maximo. When equipment is found to be out of tolerance, the system or subsystem will be tagged and taken out of service until appropriate remedial action can be taken. The equipment will only be declared “fit for service” following successful functional/safety acceptance testing. For each safety-related defect, consideration should be given to the Hazard Management Process to accept, reject or mitigate the findings. Should a vehicle not receive the prescribed preventive maintenance within the required maintenance schedule, the vehicle is to be withheld from revenue service.

Track Inspection and Maintenance: The Track/Wayside/Grounds/Structures Division of the Maintenance and Engineering Department is responsible for the inspection and maintenance of the E-Line track and structures. The frequency and scope of inspections are detailed in the 49 CFR Part 213.

The following table outlines the track inspection activities, frequencies, inspection methods, and the referenced criteria used.

Table 7.7: E-Line Track Inspection Frequencies

Inspection Activity	Frequency	Inspection Methods	Referenced Criteria
1. Mainline Track	Twice Weekly with at least one calendar day between inspections	Visually inspected by hi-rail vehicle and/or on foot	49 CFR 213
2. Yard, transfer, and tail tracks	Monthly with at least 20 calendar days between inspections	Visually inspected by hi-rail vehicle and/or on foot	49 CFR 213
3. All mainline and yard turnouts	Monthly with at least 20 calendar days between inspections	Visually and dimensionally inspected on foot	49 CFR 213
4. Track involved in fire, flood, severe storm or another occurrence that might have damaged track structure	As soon as possible after the occurrence and, if possible, before the operation of any train over the track	Special inspections	49 CFR 213
5. Internal rail inspection mainline track (including turnouts)	Annually	Ultrasonic examination or another non-destructive test method	49 CFR 213

Signaling System Inspections and Maintenance: The Train Control Division of the Maintenance and Engineering Department is responsible for the inspection and maintenance of the E-Line signaling system. The frequency and scope of inspections and the maintenance procedures are available from the Superintendent of Systems Maintenance.

The following table outlines the signaling system inspection activities, frequencies, inspection methods, and the referenced criteria used.

Table 7.8: E-Line Signaling System Inspection Frequencies

Inspection Activity	Frequency	Inspection Methods	Referenced Criteria
1. Mainline Switch Machines	Monthly	Visual inspection, obstruction tests	Model GM4000A Switch Machine PM Procedure
2. Yard Switch Machines	Every 3 Months	Visual inspection, obstruction tests	Model 6 Switch Machine PM Procedure
3. Vital Relays	Every 4 Years	Visual inspection, pick and drop tests	Vital Signal Relay PM Procedure
4. Track Circuits	Every 2 Years	Visual inspection, check track circuit sensitivity and settings	Track Circuit PM Procedure
5. Microprocessor-Based Interlocking	Every 2 Years	Visual inspection, functional checks	ElectroLogIXS Interlocking PM Procedure
6. Signal House	Every 6 Months	Visual inspection, power supply levels and ground isolation	Signal House PM Procedure

Communication Equipment Inspections and Maintenance: The Automatic Fare

Collection/Communications/Computers Division of the Maintenance and Engineering Department is responsible for the inspection and maintenance of the E-Line communication equipment. The frequency and scope of inspections and the maintenance procedures are available from the Superintendent of Systems.

The following table outlines the communication equipment inspection activities, frequencies, inspection methods, and the referenced criteria used.

Table 7.9: E-Line Communications Equipment Inspection Frequencies

Inspection Activity	Frequency	Inspection Methods	Referenced Criteria
1. Radio Components (e.g., hand-held, mobile, and desktop radios)	As needed (due to frequency of use and obviousness of failure)	Visual inspection, functional tests	Radio System Maintenance Procedures*
2. Emergency Telephones/Emergency Communications	Every 3 Months	Visual inspection, functional tests	ETEL and CTCL Inspection Procedure
3. SCADA and CTC	Every 6 Months	Visual inspection, check power supplies, system check	CTC and SCADA Inspection Procedure
4. CCTV	Every 6 Months	Visual inspection, cleaning, functional check	CCTV Inspection and Maintenance Procedure

*E-Line relies on BART to perform inspections of the radio backbone and repeater sites. All components/end-units are inspected by District personnel.

Revenue Vehicle Inspections and Maintenance: : The Rolling Stock and Shops Department is responsible for the inspection and maintenance of the E-Line revenue vehicles. The Preventive Maintenance Program is outlined in the original equipment manufacturer (OEM) maintenance manual. Maximo is available to determine whether or not the required preventive maintenance is being performed during the required time limits and if the required inspection and maintenance activities are signed off appropriately by the responsible maintenance workers, inspection workers, and maintenance assistant superintendents.

The following table outlines the revenue vehicle inspection activities, frequencies, inspection methods, and the referenced criteria used.

Table 7.10: E-Line Revenue Vehicle Inspection Frequencies

Inspection Activity	Frequency	Inspection Methods	Referenced Criteria
1. Vehicle preventive maintenance and inspection	Calendar Days 30, 60, 90, 180, 360	Replacement of consumables (oil, grease, filters), visual, functional checks, measure for condemning limits	Stadler, manuals, Part 5: B2.8 Preventive Maintenance
2. Vehicle component overhaul	Years/Miles 3/273k 5/240k 6/503k 7/622k	Replacement or overhaul of components, visual, functional checks, measure for condemning limits	Stadler, manuals, Part 5: B2.8.8 Overhaul – R1

Facilities and Equipment Inspections

The E-Line Facility Plan establishes a schedule of periodic systems and equipment inspections. Some equipment inspections are stored in Maximo and others are recorded with paper documentation. These items include, but are not necessarily limited to, the following:

- Fueling Station – Vehicle Maintenance
- Cranes – Vehicle Maintenance
- Fall Protection Equipment and Supports – Vehicle Maintenance
- Vehicle Lifts – Vehicle Maintenance
- Roll-up Doors – Vehicle Maintenance
- Air Compressors – Vehicle Maintenance (eMF), Systems (Stations)
- HVAC/Heaters – Vehicle Maintenance
- Fire Protection Equipment – Vehicle Maintenance
- Elevators and Escalators – Vehicle Maintenance (eMF) and Systems (Stations) via contractor
- Communication Equipment - Systems
- Drain and Flood Control Systems - Systems
- Structures – Vehicle Maintenance (eMF) Systems (Bridges, Tunnels, Stations, Signal Houses, and Parking Lots,)
- Road Vehicles – Trucks, SUVs, Forklifts, Utility Carts, Lifts

Resolution of Audit/Inspection Findings

Safety-critical systems and facilities are inspected on a regular basis to identify existing hazards and ensure that such hazards are mitigated in a timely manner. E-Line inspection and repair manuals are available to the personnel responsible in performing these duties. Only replacement parts that meet E-Line/OEM's specifications may be used in the repair of safety-critical systems.

Safety critical systems, such as track, structures, train control, transit vehicles, flood control, elevators, escalators, and communications are inspected/tested and/or serviced on a scheduled, periodic basis. Should such systems be found in a failed or to be in an out of tolerance condition, in such a manner that would present a hazard, applicable operations will be restricted to maintain safety until such time an appropriate remedial action has been completed. Equipment found to be in a failed or out of tolerance condition are recorded and tracked by the responsible maintenance department. These discrepancies are not to be closed out until repairs are completed.

System Safety Department staff performs Internal Safety and Security Audits of maintenance activities for safety critical systems. These audits focus on adherence to schedule, application of standards and procedures, and recordkeeping.

7.3.3 OAC

The Operator's Operations and Maintenance manuals provide instructions on preventive maintenance, troubleshooting, and corrective maintenance and are available to all Operator personnel. All related maintenance actions are documented within the Operator's Maintenance Management Information System (MMIS). The MMIS covers maintenance actions for the entire OAC system including, but not limited to, the following safety-related system/subsystem elements:

- Station and guideway structures
- Vehicle equipment
- Building systems (mechanical, electrical, plumbing)
- Means of egress (doors and gates within stations, trains, guideway)
- Emergency equipment (CCTV, public address, emergency telephone systems, radio systems)
- Automated train control system
- Life safety and alarm systems
- Fire suppression systems

If maintenance actions or inspections of these (or any other safety-relevant) elements identify an unacceptable hazard, the Hazard Management Process identified in Section 6 shall be used to eliminate or mitigate the hazard.

System safety monitoring is carried out on a day-to-day basis by O&M personnel and management. Safety-related inspections and maintenance of the various systems and subsystems of OAC shall be carried out according to defined intervals and/or based on the mileage reading of the trains. The maintenance and inspection schedule is established to ensure safety-critical elements of the system are evaluated at proper intervals based on the Hazard Resolution Process. The maintenance and inspection intervals are defined in the OAC O&M manuals. Scheduled inspections and maintenance are performed using written check lists. In addition, maintenance audits are performed by management according to prescribed checklists.

All maintenance actions are performed and recorded into the MMIS by the Operator's operations and maintenance personnel. All maintenance records and reports generated by the MMIS shall be provided to the District as part of the Operator's monthly reporting and are available for CPUC review.

The System Safety Coordinator, or his/her designee, shall also carry out periodic safety audits/inspections monthly. The findings of the safety audit/inspection are recorded in the minutes of the monthly operation status meetings.

7.4 BART Accident Investigation and Reporting Procedures

The BART Accident Investigation and Reporting Procedures describes the process used by BART to conduct accident/incident investigations, the criteria for accident/incident notification, and the requirement to notify the appropriate external agencies, including the CPUC, Cal/OSHA, FTA, and the National Transportation Safety Board (NTSB). The System Safety Department is responsible for investigating all accidents/incidents with the exception of those under the jurisdiction of the BART Police Department. This document includes the District's accident investigation procedure as required by CPUC G.O. 164, Section 8.2.

Investigation reports for a major accident/incident will be forwarded through the chain of command to the General Manager and the Assistant General Manager, Operations. It is the intent of all BART, E-Line, and OAC accident/incident reports to accurately identify the most probable cause of an accident/incident and make recommendations for corrective action to prevent a reoccurrence of similar accidents/incidents. The System Safety Department will track recommendations for corrective action through completion. For more detailed information, please refer to the BART Accident Investigation and Reporting Procedures plan.

7.5 Drug and Alcohol Program

The Employee Services Division of the Human Resources Department administers the District's Substance Abuse Program. Employees of all three modes shall comply with the District's Drug and Alcohol Prevention/Testing Program Requirements. The OAC Line Manager and Doppelmayr implement and facilitate the program for OAC. BART and OAC will complete and sign a certificate of compliance with the Federal Drug and Alcohol Prevention/Testing Program.

The policies and procedures set forth in the Substance Abuse Program are in accordance with the Federal Department of Transportation requirements. The Assistant General Manager of Administration has the formal authority to approve revisions to the program.

7.5.1 Policy on Drug and Alcohol-Free Workplace

It is the policy of the District to foster and provide a drug and alcohol-free workplace for all employees. A drug and alcohol-free workplace protects the safety of the public as well as the District's valuable employee resources.

7.5.2 Guiding Principles

There are four guiding principles underlying the District's adoption of its policy on a drug and alcohol-free workplace. They are:

1. Education – The District believes that education and training of all employees on the effects and treatment of substance abuse disorders will contribute to a safer and more efficient workplace for everyone.
2. Deterrence – The District is committed to eliminating the effects of substance abuse in the workplace. All employees are prohibited from using, possessing, buying or selling drugs or alcohol in the workplace, and are prohibited from reporting to work or being subject to work (specifically, on call or on break) with prohibited drugs or alcohol in their systems.
3. Enforcement – The substance abuse policy will be strictly enforced. Violation of its requirements will be cause for discipline, up to and including termination of employment.
4. Treatment – The District is committed to helping employees with admitted substance abuse problems overcome those problems and encourages use of the voluntary rehabilitation option.

7.5.3 Policy Purpose

The purposes of the District's substance abuse policy are:

1. To implement a fair and balanced approach to eliminating substance abuse and its effects on the job;
2. To protect all passengers and employees;
3. To provide a strong incentive for voluntary rehabilitation; and
4. To implement the requirements of the Omnibus Transportation Employee Testing Act of 1991, 49 CFR Part 29 – The Drug Free Workplace Act of 1988; 49 CFR Part 40 – Procedures for Transportation Workplace Drug and Alcohol Testing Programs; and 49 CFR Part 655 – Prevention of Alcohol Misuse and Prohibited Drug Use in Transit Operations.

7.5.4 Rules

Effective January 1, 1995, District Safety Sensitive employees were subject to the drug and alcohol testing requirements of the Omnibus Transportation Employee Testing Act of 1991 and the U.S. Department of Transportation regulations (49 CFR Parts 40 and 655) as they may be supplemented and amended from time to time. The District is also subject to the Drug Free Workplace Act of 1988 (49 CFR Part 29). The District's Substance Abuse Program applies to all District employees and goes beyond the federal requirements. The District's Substance Abuse Program provides the conditions for return to work or disciplinary action.

7.5.5 Employee Subject to Testing

Pursuant to District policy and Federal regulations, employees who perform safety-sensitive functions will be subject to Pre-Employment, Pre-Duty, Reasonable Cause and Post-Accident, Random, Return to Work, and Follow-Up testing. Non-safety-sensitive employees are also subject to Pre-Employment, Pre-Duty, Reasonable Cause and Post-Accident testing. The District adheres to FTA policy requiring random drug testing at least 50 percent of FTA-mandate-covered employees. BART completes and submits the FTA-required Management Information System (MIS) report annually for each mode, which identifies all testing rates and results for individuals tested under the program.

The Department of Transportation rules apply to each “covered employee” defined as a “person, including a volunteer, applicant, or transferee, who performs a safety sensitive function”. Contractors and their employees who perform safety sensitive functions are covered employees. A “safety sensitive function”, by Federal rule definition, means any of the following duties:

- Operating a revenue service vehicle, whether or not the vehicle is in service;
- Operating a non-revenue service vehicle when required to be operated by a holder of a Commercial Driver’s License;
- Controlling dispatch or movement of a revenue service vehicle or equipment used in revenue service;
- Maintaining a revenue service vehicle, including repair, upkeep or any other process that keeps the vehicle operational, or maintaining equipment used in revenue service;
- Carrying a firearm for security purposes.
- Supervisors who perform any of the functions or whose job description includes the performance of any of the functions listed above.

7.6 Management of Change

The management of change process establishes a means for the District modes to identify and assess changes that may introduce new hazards or impact the mode’s safety performance. The District has various methods for managing change such as procurement, configuration management, and system modification. When a District mode determines that a change may impact its safety performance, then it must evaluate the proposed change through its Safety Risk Management process (see Section 6.0) and the processes listed below.

7.6.1 Procurement

The procurement process for BART is discussed below. OAC has a separate process discussed at the end of this section.

Procurement and Material Management Department

The Procurement and Material Management Department consists of three divisions: *Purchasing* is responsible for buying goods and services; *Contract Management* develops and administers construction, installation, and equipment procurement contracts; and *Inventory and Stores* is responsible for the inventory of parts and supplies required to support the District’s maintenance, operations and capital projects.

Parts Material and Purchasing and Inventory Control

Safety-critical parts can only be purchased through the Purchasing Department using only those purchase specifications approved by BART Engineering. The engineering discipline responsible for that specific equipment or facility defines the receiving inspection requirements in the BART engineering specifications. The department responsible for the installation of the replacement part typically performs inspections, but the Stores Department inspects certain parts, such as those for escalators and elevators. The organizations performing receiving inspections are also responsible for segregating rejected parts to prevent them from being used.

Safety Data Sheet Program

All hazardous materials used on District property must have approval by the System Safety Department prior to being purchased and used. BART uses the Sitehawk online Safety Data Sheet (SDS) system to provide safety information and to keep track of chemical approvals. District personnel who want to introduce a new hazardous material must complete the Material Approval request in Sitehawk. Safety Data Sheets (SDS) are required to be filed with the System Safety Department by the supplier/vendors. System Safety Department personnel review the proposed material to determine if it can be safely handled. Approval or rejection is then indicated and communicated to the requestor. All records are maintained in Sitehawk. Additional information about the hazardous materials management program is contained in section 8.2 of the PTASP.

OAC Procurement Process

Procurement of any safety-critical equipment for the system shall only be purchased through the Original Equipment Manufacturer (OEM) or by manufacturers/vendors specifically approved by the Oakland Airport Connector's manufacturer and/or the District.

Materials and services shall be procured in accordance with the Operator's defined procurement process. Parts and materials shall be procured from the Operator's list of approved vendors to the extent possible.

All parts and materials shall be inspected upon receipt by one of the Operator's designated personnel to ensure the quality of the receivable and shall be tracked in the Operator's Maintenance Management Information System (MMIS).

7.6.2 System Modification

System Modification for BART & E-Line

The process used by the District to ensure that safety concerns are addressed in modifications to existing systems, vehicles, and equipment, which do not require formal safety certification plan, but may have safety impacts, is described herein.

The design of any project/modification starts with the identification of appropriate design criteria. In many cases, the criteria have already been developed and approved for use within the District. In cases where the criteria are absent, the project manager will conduct an evaluation to identify pertinent industry standards for use in controlling the design.

Safety certification is required for major projects (see Section 7.6.3). Formal safety certification may not be required for smaller or maintenance projects. Nevertheless, a preliminary hazard analysis must be conducted during the initial design phase, hazard mitigation methods shall be tracked using the tracking matrix. Safety/quality control process must be incorporated into each project to ensure that safety critical requirements are identified and systematically checked-off against the final design and as-built facilities/installations.

Projects shall implement a configuration management system for use during the design and construction phases of the project. This system should be capable of allowing District staff the capability to review such documents throughout various phases of construction to ensure specific guidelines are met. This system shall also provide a method to migrate the project's electronic files and documentation into the District's current configuration management system after the project's final phase has been

completed. A project document control system shall be used to track design review and comment resolution dispositions. BART Engineering Change Orders (BECOs) shall be generated if new information needs to be added or if a modification is to be made to District-controlled documentation.

Configuration and maintenance procedure changes generated by the various engineering divisions are submitted to the Documentation Division using a BART Engineering Change Order (BECO). The Documentation Division reviews the submitted BECO for appropriate authorization, completeness, and accuracy. The originator of the BECO must send a copy of the BECO to the System Safety Department upon initiation of the BECO form. Those change orders having potential safety impact are assigned to a staff member of the System Safety Department for follow-up. The Documentation Division then revises the affected documentation per BECO instructions and distributes copies of the revised documents to the affected District departments and divisions as appropriate.

If necessary, Preliminary Hazard Analysis shall be conducted with the participation of all stakeholders. This is to ensure any new addition or modification to the system will not introduce a new hazard. Mitigations are provided and are tracked until closure using the hazard matrix.

System Modification for OAC

The System Designer is Doppelmayr Cable Car. Any changes in the design require approval by the District and the System Designer. Depending on the magnitude of the change, modifications will be classified as “Minor Modifications” or “Major Modifications” and will be subject to the following.

Minor Modifications: For system modifications that do not require system certification, whether performed by the Operator, the District, or the manufacturer, the Operator’s Safety Coordinator ensures a safety/quality control process is incorporated into the project to ensure that safety critical requirements are identified and systematically checked off against the final design and as-built facility installations.

Major Modifications/Expansions to the System: System extensions, major system overhauls, and fleet replacement will require CPUC re-certification as required by CPUC G.O. 164 and as described in the OAC contract. The process shall follow applicable CPUC and FTA guidelines and will be similar to the process that was followed during the original Design and Construction of the OAC but will be adapted to the particular scope of work and updated to comply with current regulations. Should BART and the Operator contend that the initial certification remains valid, that information may be presented to the CPUC for concurrence. See section 7.6.3 for more information on BART’s Safety Certification Process.

7.6.3 Safety Certification

Projects and modifications for any BART mode may require “Safety Certification”, as determined by the System Safety Department or by the requirements in CPUC G.O. 164. According to CPUC G.O. 164, Safety Certification is required for major projects. For major construction projects, the design will need to be formally safety certified to ensure the design is in full compliance with the design criteria. Major Projects are defined in the General Order as: new rail systems and extensions, the acquisition and integration of new rail vehicles and safety critical technologies into existing service, and major safety critical redesign projects, excluding functionally similar replacements.

For all Major Projects, G.O. 164 requires that Safety and Security Certification Plans (SSCP) be developed and submitted to CPUC for approval during the preliminary design phase of the project. The System

Safety Department should be consulted regarding the format, scope, and content of the SSCP. Prior to revenue service, a Safety and Security Verification Report (SCVR) will need to be submitted to, and approved by, the CPUC.

All other projects can use the District's in-house safety and security certification plan. Complete safety conformance certificates are submitted to the Chief Safety Officer.

The purpose of safety certification is to confirm that the system is safe for public use. The certification process is used to track the events that show inclusion of safety-related requirements, beginning with initial criteria through pre-revenue activities. Verification that safety-related requirements and codes are satisfied is accomplished by the persons performing and/or responsible for these processes.

Certification Process

The certification process requires the identification of certifiable elements that might include items such as train control, communications, traction power, track, station fire/life safety equipment, etc.

For each certifiable element, a number of following six certifiable factors may apply:

- Design Criteria Conformance
- Specification Conformance
- Safety-Related Testing Conformance
- Rules and Procedures Conformance
- Training and Drills Conformance
- Hazard Resolution Conformance

All application certifiable factors for each certifiable element shall be safety verified prior to revenue service. Verification must be documented in the form of completed review checklists, inspection records, and test results. Should the verification process disclose "EXCEPTIONS", they shall be tracked through resolution and documented. Closure shall be accomplished by the responsible Engineer and the appropriate BART technical discipline staff with the concurrence of BART System Safety.

The verification process is further validated by selected audits performed by the BART System Safety Department or delegated representative.

The final steps of Safety Certification before the new or modified system, equipment or facility are used in revenue service are as follows:

1. A responsible District project Engineer shall provide (or make available) the following to the System Safety Department:
 - a. A written list of all analyses and tests that have been conducted to ensure the safety of the project or modification;
 - b. A Safety Certification Certificate that includes: A written statement that no known unacceptable or undesirable hazards to persons or property are known to exist; and a written statement that all applicable requirements in the Safety and Security Certification Plan (except for those covered in "2" below) have been satisfactorily completed. Exceptions, if any, will be listed and mitigation workarounds/restrictions described. Pertinent supporting Certificates of Compliance should be attached to this Certification Certificate.

2. The department manager responsible for the operation of the project or modification, will provide the following to the System Safety Department:
 - a. A Certification of Compliance that includes a written statement that (1) District employees responsible for the operation of any facility/equipment resulting from the project or modification have been trained in its safe operation; and (2) the pertinent rules and procedures have been appropriately updated/added;
 - b. A written “Notice of Intent to Operate”, which provides a minimum of twenty days notification of the District’s intent to utilize the facility/equipment.
3. For projects that are following CPUC G.O. 164, the Chief Safety Officer will complete and submit the SCVR to the CPUC at least 21 calendar days prior to the start of service.

7.7 Continuous Improvement

BART has established different processes to continually assess its overall safety performance and to provide formal structures for continuous improvement. While this section details safety data acquisition and analysis, BART’s safety role on the various committees described in Section 6.1.2; its regular schedule of outside audits (e.g. FTA, CPUC, and APTA), its Internal Audit program described in Section 7.1, and other programs described throughout this PTASP serve as formal means of identifying and addressing safety-related issues for improvement. In addition, BART is a member of multiple international benchmarking groups and is actively involved and constantly seeking ways towards continuous improvement.

7.7.1 Safety Data Acquisition and Analysis

BART & E-Line Safety Data Acquisition Process

It is the task of the System Safety Department to monitor safety performance of the District's operations. Selected data is accumulated and analyzed by the System Safety Department. This data includes employee injury and illness reports, patron accident reports, rules and procedures violations, Unusual Occurrence Reports (UORs) and BART Safety Notices (BSNs).

This collection and maintenance of safety data is performed using Maximo HSE database system and will be presented on the SharePoint dashboard upon completion and made available to the District's upper management. Until such time as the safety dashboard is established, safety data is presented in the monthly Operations Summary reports, quarterly performance reviews to the BART Board, quarterly CPUC-BART safety meetings, and various safety committees. A primary use of this information is the tracking of hazard-related data to identify safety-related trends. These trends are further analyzed or investigated by the System Safety Department, with the assistance of the affected department, to identify causal factors and pinpoint the specific areas of concern. This is accomplished by interviews with personnel in the affected department(s) and analysis of pertinent documentation. Identified hazards are submitted to the management of the department that would be responsible for implementation of the necessary corrective action. Also included in the submittal are recommendations for corrective action or a request for corrective action development.

Access to Data

Accident/Incident and Injury Documentation: It is the responsibility of each department manager to ensure prompt reporting of all accidents and injuries on District property to the System Safety Department.

1. *Operations Safety*: Operations accidents and incidents, including CPUC and FTA reportable ones, are reported to System Safety by OCC via management notification system. Daily OCC Manager's Logs are reviewed by System Safety for any safety accidents and incidents for Maximo HSE database. Any Operating hazard data is tracked and discussed at the quarterly CPUC-BART safety meetings.
2. *Patron Injury*: Patrons claiming injury on District property report such incidents to BART personnel (typically a Transportation Supervisor or Station Agent). The Supervisor or Station Agent will then fill out an *Accident/Injury Report Form* that is then distributed to the Insurance and System Safety Departments. The reports are reviewed and analyzed by the System Safety Department's Environmental, Health and Safety Division. Section 7.4 contains additional details on how these reports are used when conducting accident investigations.

The Maximo HSE as our safety data repository database compiles statistics for selected types of patron injuries, including type of accidents and trend indications. Patron safety statistics include the reporting of incidents/accidents that occur in stations and in the vehicles. Station incidents include the following: Platform, concourse, stair, escalator, elevator, track falls and parking lot areas. Vehicle incidents include the following: Gap falls, boarding and alighting, struck by vehicle doors while boarding/alighting, and on-board incidents.

3. *Unusual Occurrences*: Each unusual occurrence, such as an accident, disturbance, irregularity, or rule/procedure violation which might affect service, or involve or threaten injury to persons or damage to equipment on District property, require that an *Unusual Occurrence Report* be prepared. Section 7.4 contains additional details on how these reports are used when conducting accident investigations.
4. *Employee Injury/Illness*: Employee work-related illness or injury is reported by Supervision to the Human Resources and System Safety Departments using the *Supervisor's Report of Injury/Illness Form (Form #0030)*. The reports are reviewed and analyzed by the System Safety Department's Employee/Patron Safety Division. The System Safety Department staff will investigate and provide follow up to severe injury incidents. The BART SharePoint dashboard also reports on selected types of employee safety statistics including: Lost time injuries/illnesses cases by job classification, stress-related illnesses by job classification and lost workdays, OSHA recordable injuries and illnesses by type, and OSHA recordable sprain/strain injuries by body parts. BART is self-insured and claims are administered by a third-party administrator.

All incident-related formal reporting to outside regulatory agencies is performed by the System Safety Department. Records of the incident and its investigation are kept on permanent file in the System Safety Department.

5. *Employee Safety Complaint*: Potential safety hazards in an employee's work area are reported to his/her immediate supervisor. If the employee is not satisfied with the supervisor's response, he/she may complete a *BART Safety Notice (Form #0836)*, bringing the matter to the attention of the System Safety Department. The completed form is given to the supervisor and a copy sent to the System Safety Department, typically including comments from the supervisor. The BART Safety Notice is reviewed and the potential safety hazard is analyzed and investigated by the System

System Safety Department's Employee/Patron Safety Division. There is a BSN tracking database on System Safety's SharePoint site.

6. *Near Miss Reporting:* The purpose of the RWP Near-Miss, Non-Punitive Reporting Program is to encourage employees to report near-miss incidents related to the safety of individuals located in (or adjacent to) the trackway due to (1) the movement of all on-rail vehicles on mainline, in yards, in local control areas, and on tracks in shops, and (2) the third rail power system associated with propulsion of revenue service vehicles. The intent is to become knowledgeable of unsafe acts that would otherwise go undetected or unreported so that proactive corrective action can be taken. The employee may complete a Roadway Worker Near-Miss Reporting Form (Form #13-73-0006) or by calling the Safety Hotline. There is also an Employee Safety Hotline which allows for near miss reporting.
7. The BART Resource Center provides BART historical files, technical books, contract drawings, contracts, contract test procedures, maintenance manuals, and as-built drawings.
8. The Maintenance and Reliability Information System (MARIS), managed by Rolling Stock and Shops (RS&S) Department, provides a computerized database for recording all of the functional incidents and failures reported for transit vehicles, wayside electronic and mechanical equipment, and yard equipment.
9. The BART Legal Department maintains extensive historical files, including the Litigation Support Task Force files and Archives file.
10. Outside sources of transportation data are available to BART through the National Technical Information Service (NTIS), other transportation/transit agencies and university libraries.
11. Regarding health, safe work practices and environmental issues, information sources include The Alameda County Department of Health, Cal/OSHA Consultation Service, and other regulatory agencies.

OAC Safety Data Acquisition Process

Qualifying safety concerns brought forward prompts the Operator to collect data and analyze trends for mitigation using the Hazard Management Process described in Section 6. Data regarding accidents, incidents, hazardous conditions and operations may be obtained from several different reporting mechanisms. The OMMIS software module is used to track all aspects of system performance. The Automated Train Supervision software tracks all system faults. Findings or reports of unacceptable risks are shared as needed to ensure the risk is eliminated, mitigated or accepted.

In addition to the above safety data, the Operator's Safety Coordinator compiles information regarding:

- Ridership (provided by the District)
- Safety bulletins
- Training
- Drills
- Incident records
- Maintenance records

The OAC Line Manager is responsible for collecting and analyzing the safety data and ensures that the OAC Safety and Security Review Committee (SSRC) (including BART Safety) periodically reviews safety data and analyses. All safety data described above is maintained electronically and/or in hard copy by the Operator for a minimum of seven (7) years or as required by law.

7.8 Corrective Action Plans

CAPs are a vital part of continuous improvement and should be regarded as positive initiatives to fix deficiencies and improve safety. CAPs are developed from numerous sources including, but not limited to:

- Internal safety audits,
- CPUC and other external agency audits,
- Safety event investigations, and
- Hazards reported through safety risk management activities.

The sections regarding each of these sources earlier in this PTASP describe in which situations a CAP is required. Though generally, issues that can be corrected immediately and do not result in a change do not require a CAP. The CAP, if required, will include:

- A CAP identification number
- The source and identified deficiency
- A description of the task to be performed that will correct the item;
- Multiple sub-tasks and milestones, for complex corrective action plans;
- An assignment of who, by title and department, is responsible for accomplishing the corrective action; and
- A schedule for completion of the corrective action with intermediate milestones, as appropriate.

Where immediate or emergency corrective actions are required to ensure immediate safety, the District will implement the corrective action prior to CPUC approval insofar as the District provides timely notification of the CAP to CPUC with subsequent CPUC review and approval.

Every CAP must be proposed to the CPUC for formal approval before implementation. Once approved, the original reported item (e.g., a hazard or audit finding) may be closed with a CAP opened for tracking. All CAPs are tracked through Maximo and maintained by System Safety Department personnel. Once a CAP is generated, a work order goes to the person or department responsible. Reminders are generated before CAP due dates to let those responsible know the CAP is nearly due.

Implementation schedules for CAPs depend on their source. CAPs derived from all sources except accidents or incidents have varying implementation dates. Accident CAPs are due within 60 calendar days of the safety event and are submitted as part of an accident/incident investigation report or in a separate document. If the CAP implementation takes longer than 60 calendar days to complete, the responsible department shall submit interim status reports, entitled *CPUC Monthly Service Record, Events, and/or Hazard and Corrective action Plan Summary Report*, every 30 calendar days. CAPs derived from other sources may use this form as well. The CAP will identify the action to be taken with an accompanying implementation schedule and the individual, or department, responsible for the implementation. Triennial audit CAPs require interim status reports according to the CPUC Commission Resolution.

The status and tracking of CAPs will be reported monthly to CPUC on its Form V. Status is also discussed at the CPUC Monthly CAP Meetings and CPUC-BART Quarterly Meetings.

8.0 Safety Promotion

Safety promotion, the final component of the SMS, involves safety training, safety messages, operations bulletins and notices, and safety communication supporting safe practice. The System Safety Department is developing a module for new employee orientation that covers System Safety Department roles, safety responsibilities of employees, and the mechanisms for reporting and resolving hazards.

As required by Federal transit law at 49 U.S.C. § 5329(d)(1)(I), BART has established a risk reduction program for transit operations to improve safety by reducing the number and rates of accidents, injuries, and assaults on transit workers based on applicable BART incidents and data submitted to the National Transit Database (NTD). BART will utilize the Joint Union/Management Health & Safety Committee, the SMS Joint Union/Management Safety Committee, and BART's Assault Assessment and Analysis program to reduce the risk of injury or assault on District property.

8.1 Competencies and Training

8.1.1 BART

The Training Department within each discipline at BART conducts certification and technical skills training classes to non-supervisory employees, provides safety training to all employees and contractors, and provides supplemental orientation to incumbent employees. BART personnel who take and pass the required classes, will be certified to perform respective duties. The CSO receives the equivalent safety training that employees and contractors receive from the Training Department. Additionally, BART uses the Pathlore Learning Management System to support aspects of providing for and tracking required employee training across departments.

The Performance and Learning Division of the Office of Administration conducts new employee orientation classes and provides supplemental orientation to incumbent non-supervisory employees. Employees, whose duties directly impact the daily safe operation of the system, must be formally trained and certified by successfully completing specialized training courses, typically provided by the District. Also, these employees must pass recertification on a regularly scheduled basis to retain their positions.

The basic training programs for the above positions include the BART Operations Rules & Procedures Manual for BART personnel, eCOR for E-Line personnel, special instructions pertaining to the specific craft, de-escalation training, simulator training where applicable, and on-the-job training under supervision. Training and certification are provided for new employees and those promoted to positions of increased responsibility. Upon successful completion of training and testing, the District issues a certification to the employee.

The testing programs include performance and /or written examinations designed to determine the employee's knowledge and understanding of job functions as well as the ability to perform job functions. Any employee who does not complete the training and testing program or who fails to qualify for subsequent recertification, is not granted certification by the District and is not permitted to perform the craft in question until certification is acquired.

The positions requiring training and certification, frequency of recertification, and the organization providing training are presented as follows:

Table 8.1: BART Training and Recertification Matrix

Positions Requiring Training and Certification	Frequency of Training and Recertification	Organization Providing Training
Train Controllers	Every 2 Years	Transportation
DMU System Rail Controllers	Every 2 Years	Transportation
Power/Support Controllers	Every 2 Years	Transportation
Train Operators	Every 2 Years	Transportation
Station Agents	Every 3 Years	Transportation
Tower Foreworkers	Every 2 Years	Transportation
DMU Engineers (Class I & II)	Every 2 Years	Transportation
E-Line Road Supervisor of Engines	Every 2 Years	Transportation
Composite Vehicle Mechanics	Every 3 Years	RS&S
Transit Vehicle Mechanics	Every 3 Years	RS&S
Electricians	Every 3 Years	M&E
Electronic Technicians (Revenue Vehicles)	Every 3 Years	RS&S
Electronic Technicians (Train Control)	Every 3 Years	M&E
Electronic Technicians (Communications)	Every 3 Years	M&E
Electronic Technicians (Computer)	Every 3 Years	M&E
On-Rail Equipment Operators	Every 3 Years	M&E
BART Police	Every 2 Years	California Commission on Peace Officers Standards and Training

Employee Safety Program

The Manager of Employee/Patron Safety is responsible for implementing the *District Management Procedure - Employee Safety Program* and the Injury and Illness Prevention Program (IIPP). The Employee Safety Program is established to provide a control program to minimize the occurrence of accidents and associated employee injuries involving District operations. A coordinated District effort is necessary to achieve this goal. Specific procedures will be provided to identify and eliminate unsafe conditions and employee actions, as required.

Personnel responsibilities and authority established in this program are in addition to responsibilities imposed by the *District Operations Rules & Procedures Manual*. The System Safety Department's involvement with Operations Department will also be defined. Enforcement of the program will be accomplished through the joint efforts of the System Safety Department, the General Manager's Office and individual department managers.

The Employee Safety Program is intended to establish a high level of safety consciousness by District personnel. The main objective of the Program is to increase the level of safety consideration and reduce accident occurrence. The implementation of the Program will ensure District compliance with the regulations.

The Employee Safety Program establishes the process by which affected departments shall incorporate industrial safety practices. Management and worker responsibilities are established on a departmental basis.

The Program affects all departments with particular emphasis placed on Maintenance & Engineering, Transportation, and Procurement. Each affected department shall comply with the Program as it applies to its respective operations. Individual departments shall implement procedures amplifying or detailing areas of the Employee Safety Program as it relates to their respective organizations. These procedures must be reviewed and approved by the System Safety Department prior to implementation and must not be in conflict with the Employee Safety Program.

Industrial safety and hygiene responsibilities include:

- Monitoring and evaluating industrial conditions and practices within the District;
- Evaluating District programs and practices to ensure compliance with federal, state, and local codes, laws and regulations;
- Conducting industrial hygiene surveys of District facilities for conditions that may affect employee/patron/public health. Also, contract with and manage industrial hygienists that conduct such surveys for the District;
- Developing solutions/corrective actions necessary to minimize employee and public safety hazards and the possibility of property damage; and,
- Serving as the District's liaison to regulatory agencies.

In order to comply with the District's Injury and Illness Prevention Program (IIPP), maintain a safe and healthful working environment, and prevent injuries, illnesses, and accidents in the workplace, BART provides training to each employee with regard to general safety procedures and to any hazards or safety procedures specific to that employee's work assignment.

The following is a list of safety and health training programs that are part of the overall District Illness and Injury Prevention Program:

- Injury & Illness Prevention
- Accident Reporting/Investigation
- Driver/Vehicle Safety
- Electrical Safety
- Powered Industrial Truck (Forklift)
- Safety Inspection
- Lead Awareness
- Asbestos Management
- Personal Protection Equipment
- Fall Prevention
- Confined Space Entry
- Hearing Conservation
- Bloodborne Pathogens
- Hazard Communication
- Respiratory Protection
- Lock Out / Tag Out
- Ergonomics Awareness
- Emergency Action
- First Aid / C.P.R.
- Ladder Safety
- Welding/Hot Work Safety
- Heat Illness Prevention

Specific training will be provided based on job classifications.

CPUC General Order 172 Training

In accordance with CPUC G.O. 172, the District has developed a Zero Tolerance Policy for violations of District rules related to the use of personal electronic devices. Affected individuals shall receive notification and instruction on the policy and program and shall receive a refresher course every two years. Training records shall be maintained for a minimum of three years.

CPUC General Order 175 Training

In accordance with CPUC G.O. 175 Roadway Worker Protection requirements, all BART and E-Line employees qualified to access the BART or E-Line Right-of-Way unescorted shall be trained on applicable wayside safety rules and procedures. Retraining shall be performed at least once every 24 months and training records shall be maintained for a minimum of three years.

Employees must be currently certified by the District's Roadway Worker Protection Certification Training Program or is escorted by a currently certified roadway worker when accessing the Right-of-Way, including responding to an emergency.

49 CFR Part 672 Safety Training

In accordance with 49 CFR Part 672 requirements, all BART, E-Line, and OAC personnel directly responsible for safety oversight of rail operations are required to complete all courses comprising the Public Transportation Safety Certification Training Program and must attain the Transit Safety and Security Program (TSSP) Certificate. This requirement also applies to the CSO.

Contractor Safety Training

When a contract involves work in or around the operating trackway, or where the work has the potential of affecting the safety of the BART or E-Line operating system, the responsible Resident Engineer shall ensure the following before allowing the Contractor's work to proceed:

1. For work within the BART Operating Envelope, the contractor must receive BART's 40-hour RWP training. Designated Contractor Roadway Workers are responsible for training employees of the Contractor and its Subcontractors who have not completed the RWP training and who are scheduled or expected to perform work within the BART Operating Envelope. This training shall be at a minimum, four hours in length. For work outside the BART Operating Envelope, the contractor's on-site supervisor must receive the 4-hour Contractor training. The trained supervisor shall be responsible for training employees of the Contractor and its Subcontractors who have not completed the training and who are scheduled or expected to perform work within the BART Operating System. The training shall be a minimum of one hour in length.
2. The contractor's work plan has been submitted to and approved by BART or E-Line;
3. An Employee in Charge (EIC), as defined in the OR&P Section 8301, has been assigned to oversee the work; and
4. Appropriate clearance authorization has been established with the Operations Control Center.

Recordkeeping

Permanent records of personnel training are maintained by the training organization responsible for providing certification/recertification for that employee's craft.

Compliance with Training Requirements

Both the Internal Safety and Security Audit Program and the CPUC Triennial Safety Audit provide the means in the assessment of compliance with training and certification requirements. Audit process may include reviews of employee training, certification and re-certification records, observations of training / refresher courses, site visits, and in-person interviews with employees and management.

Training shall be provided for every new employee of passenger service and as defined in the Operator's Certification and Training Plan. The training program shall include formal instructions and on-the-job training and shall lead to certification of employees for their respective tasks. Training includes distribution of instructional literature and experience with equipment. Training on the actual system equipment and/or spare equipment is permitted provided adequate supervision by certified personnel.

In addition, all Contractor and Subcontractor personnel working will be trained as necessary to ensure they are aware of and follow all safety relevant protocols associated with their work.

8.1.2 OAC

Training Plan

The overall training plan and the specific training plans have been developed for the persons involved in operation, maintenance, and servicing of the system.

Safety-related training topics from the training plan are performed initially for each new hire and refreshed every 2 years. Specific certifications are required prior to employees performing safety sensitive work without the oversight and guidance of a certified employee. Those certifications shall be refreshed every two years and include the following:

- System Safety
- Central Control Operator
- Tow Maintenance Vehicle

The O&M Manager shall be responsible for the implementation and control of all trainings according to the overall and specific training plans. Implementation and control will include tracking each employee's certification and training history, maintaining all training records, and periodic retraining according to a defined schedule. A summary of training records is maintained on a spreadsheet/database.

All training records are maintained for each employee within their employee file and subcontractor personnel in the subcontractor's training file. These training records shall be made available for review by the District and CPUC.

The O&M Manager shall verify contractors' and subcontractors' training and qualifications based on the training plans and records before beginning work.

Employee Safety

The main focus of employee training is on employee safety. In particular, training issues shall include:

- G.O. 175: Roadway Work Protection
- Hazardous materials and applicable Occupational Safety and Health requirements
- Safety requirements that employees and contractors must follow when working on, or in close proximity to, the transit system
- Requirements for employees to wear and use various types of personal protective equipment for specific work and in specific locations
- Measures for reduction of work-related injuries

The O&M Manager ensures that every new employee is trained in employee safety and each employee is System Safety recertified every two years. Regular on-the-job audits (at least annually) shall be performed by the System Safety Coordinator to verify that employees are following the safety requirements while performing their duties. The O&M Manager is responsible for the planning, organization, and implementation of these audits and for ensuring all required certifications are maintained.

8.2 Hazardous Materials Program

8.2.1 BART

Hazardous Materials Management

Hazardous Materials management is a commitment by the responsible department to the correct handling and disposal of hazardous materials as explained in the following programs:

1. *Safety Data Sheet (SDS) Program*: All hazardous materials used on District property must have approval by the BART System Safety Department prior to being purchased and used. BART uses the Safety Data Sheet (SDS) system to provide safety information and to keep track of chemical approvals. District personnel who want to introduce a new hazardous material must complete the Material Approval request in Sitehawk. Safety Data Sheets (SDS) are required to be filed with the System Safety Department by District personnel or the supplier/vendors. System Safety Department personnel will review the proposed material to determine if it can be safely handled. Approval or rejection is then indicated and communicated to the requestor. All records are maintained in Sitehawk for BART, whereas hardcopies are also kept in the Safety Data Sheet binder on the EMF shop floor.
2. *Hazard Communication Program*: As required by Federal, State and Local regulations, BART maintains a *Hazard Communication Program*. This program provides employee training in the proper storage, handling and use of products containing hazardous materials. The BART System Safety Department disseminate training information, pertinent to the storage, handling and use of hazardous materials, to Maintenance managers. These managers have the responsibility to ensure that personnel are adequately trained in the handling and use of these materials. The Employee/Patron Safety division will have the following responsibilities under this program:
 - a. Maintain a list of hazardous chemicals using the identity that is referenced on the SDS
 - b. Monitor the effectiveness of the program
 - c. Conduct annual audit of the program to ensure compliance
 - d. Monitor employee training to ensure effectiveness
 - e. Keep management informed of necessary changes
 - f. Ensure SDSs are available as required
3. *Hazardous Materials Business Plan*: As required by California State legislation (AB 2185AB 2187), the *BART Hazardous Materials Business Plan* specifies that personnel who handle hazardous materials are given specific training regarding reporting requirements, inventory control and storage, product release or spill, and the response and cleanup of spill incidents. The System Safety Department is responsible for maintaining this plan and audits its implementation to ensure compliance. Personnel from the Environmental Compliance and Employee Patron Safety Divisions work to achieve compliance with applicable regulations.
4. *Hazardous Material Spills Cleanup*: The System Safety Department develops plans and manages the District's/contractors efforts in the cleanup of hazardous materials contamination. The System Safety Department also provides, as needed, employee guidance in the safe cleanup of hazardous material spills. E-Line uses contractors who maintain the appropriate licenses and proper equipment to dispose of all hazardous waste on the E-Line property.

Hazardous Waste Management

BART System Safety is responsible for hazardous waste management on District property. The System Safety Department studies the current state and federal laws pertaining to hazardous waste management and keeps the affected departments informed as to the correct interpretation of these laws. The System Safety Department provides these departments with recommendations and guidelines in order for these departments to remain in compliance. The handling of hazardous wastes within the District is audited by the System Safety Department to ensure compliance with applicable laws.

The System Safety Department manages the disposal process of hazardous waste generated by District operations and develops procedures for the departments that handle and generate these wastes.

The System Safety Department performs site assessments for existing hazardous material contamination of the real estate being purchased by the District. The System Safety Department develops the mitigation plans for any such hazardous materials found, and in selected instances, administer the contract for contamination mitigation.

8.2.2 OAC

The OAC hazardous materials program addresses the storage, handling, approval, and use of hazardous materials. It is part of the O&M Manual. A hazardous material is defined as any material that, because of its quantity, concentration, or physical or chemical characteristics, may pose a substantial hazard to human health or the environment when incorrectly used, purposefully released, or accidentally spilled. Safety Data Sheets (SDS) for all hazardous materials shall be maintained by the Operator's Safety Coordinator.

The designated O&M Manager shall perform a Hazardous Materials and Environmental Impact Review as related to the APM system. This effort will be closely coordinated with the safety representatives of the District and the Safety and Security Review Committee (SSRC).

The review shall verify that elements pertaining to local, state, and federal law are adequately incorporated into the program. Procedures and checklists pertaining to Hazardous Materials and Environmental Impact shall be reviewed, updated, and developed as necessary by the O&M Manager for conformance with this PTASP. This review shall be performed at least annually.

8.3 Roadway Worker Protection (RWP) Program

The District has developed and implemented the Roadway Worker Protection Program in compliance with CPUC G.O. 175 requiring a comprehensive set of safety requirements for wayside workers. The District has implemented a wayside program that includes more restrictive operating rules on wayside activities and procedures for how these activities should be performed by District wayside workers and contractors. The program's goal is to provide improved protection for employees in the right-of-way (ROW) and protect these workers from the danger of being struck by trains or other on-track equipment.

A training/recertification program on RWP has been established to provide training and recertification to all roadway workers. Any roadway worker who is not trained in these procedures or who is not current in recertification must not be allowed to work/occupy, unescorted, in the right-of-way and must be removed from site immediately. Roadway workers and escorted personnel must attend a job safety

briefing when the work begins, when work changes, when work becomes confusing or when a rule violation is observed.

BART and OAC management staff must conduct Operations Safety Compliance field inspections to verify roadway workers working in the ROW have their current training/recertification or are properly escorted and to verify compliance with job safety briefing requirements.

Roadway workers must perform an inspection of tools and equipment, including safety personal protective equipment (PPE) prior to entry into work area.

BART and OAC managements have established a process for reporting unsafe conditions/hazards or near-miss incidents.

8.4 Safety Communication

8.4.1 Proactive Safety Messages

The System Safety Department works with Operations departments to communicate proactive messages and to participate in the departments' own activities. For example, shop tailgate safety meetings are attended by System Safety staff to present and disseminate safety information. Tailgate safety meeting records may be reviewed to ensure that: the appropriate District employees have attended these meetings with the appropriate frequency and the appropriate safety topics are being presented. In addition, the Safety Department publishes a Safety Rule of the Week to refresh personnel on requirements or focus on recent problem areas. System Safety Department personnel participates in the following activities to communicate safety messages to frontline employees:

- Safety Message in monthly BART Employee Newsletter "Frontline with Ops"
- Participation in Tailgate Safety Meetings
- Participation in Local Safety Committee Meetings and JUMHSC Meetings, where safety risk reporting and resolution are communicated back to personnel (see sections 5.5 and 6.0 for details)
- Safety Meetings with Training Professional groups
- The new SMS manager will be expected to develop additional programs enhancing safety communication for all rail modes

In addition, steps taken to analyze and/or mitigate hazards identified by front-line personnel should be reported back to the personnel through the safety committees and other methods through which they were raised identified in Sections 5.5 and 6.1 of this PTASP. Employees are also encouraged to report safety concerns using the BART SMS Card described in Section 5.5 of the PTASP.

8.4.2 Working on or Near District-Controlled Property

Job site inspections are conducted to ensure compliance with applicable environmental, health, and safety regulations, and District rules and procedures during construction. Findings and recommendations are issued to the contractor for all observed regulatory violations. A Safety Engineer may review the contractor's accident/injury reports and the Tailgate Safety Meeting reports.

Meetings are held with BART Engineers and construction contractors when construction is to be performed within or near the train operating envelope. The construction methods, heavy equipment to be used, schedules, and precautions to be taken are discussed. These meetings are intended to

determine if a threat is posed to trains or contract employees operating near the construction site. If such hazards are determined to exist, the Safety Engineer, BART Engineer and contractor will develop construction strategies to mitigate the hazard.

The Contractor shall hold weekly “tool box” meetings to discuss safe work practices or other safety-related topics. The BART Resident Engineer may attend these meetings to verify the contractor’s compliance.

Site-Specific Work Plan (SSWP): A Site-Specific Work Plan (SSWP) is to be submitted by the Contractor anytime construction is to be done within the operating envelope. To ensure safe working conditions for the contractor and BART employees, the Engineering Safety staff reviews contract provisions governing performance of Contractors’ work on BART property and reviews the SSWP for work that could affect the safety of the operating envelope. Engineering Safety staff receives a copy of the SSWP from the Resident Engineer, reviews and comments on the document, then recommends for System Safety Department Manager’s approval. OAC subcontracts to perform its work and on the guideway and grounds (e.g., painting, landscape maintenance, etc.). The OAC Operator is responsible for this process.

Interim Operating Plan (IOP): An Interim Operating Plan (IOP) is a plan for the continued operation of BART trains through an area(s) affected by an approved SSWP(s). IOP shall include a schedule of events and responsibilities required to remove one or more tracks from service, impact of track(s), and/or provide alternative service. The plan shall also include strategies to minimize impact on revenue service and describe how normal revenue service is to be restored. To ensure safe working conditions for the contractor and BART employees, the Engineering Safety staff reviews the IOP for work that could affect the safety of the operating envelope. Also, as deemed necessary, Engineering Safety staff performs construction site inspection of work near or on the operating system.

Contractor’s Compliance with Required Safety Programs

The contract specifications stipulate that each contractor is responsible for setting up and maintaining a safety program. At the start of a project, the contractor shall be required to submit a copy of their detailed site-specific safety program for review. For BART the Contractor Safety Program Plan shall be reviewed by the Resident Engineer and BART System Safety for compliance with the contract specifications, District Operations Rules and Procedures (OR&P) Manual, and applicable regulations and code requirements. With the exception of major capital projects, OAC contracted work must be reviewed by the Operator for compliance with OAC contract specifications. The contractor is responsible for CAL/OSHA compliance and overall construction safety of its contractors and employees; while BART Project Management is responsible for providing a work environment safe from operational hazards from the operating system. The contractor’s on-site health and safety representative’s resume shall be reviewed and approved by the Resident Engineer and BART System Safety. Detailed Construction Safety Specification can be found in BFS Specification Section 01 35 24.

The System Safety Department is responsible for general plan review, review and approval of the contractor safety program plan, contractor’s site-specific work plans, witnessing of safety-related tests (as needed) and compliance with OR&P Manual. The System Safety Department is responsible for review of project documentation and contractor job tasks to ensure minimal risk to BART employees and patrons and minimal impact to BART operations. System Safety Department may review

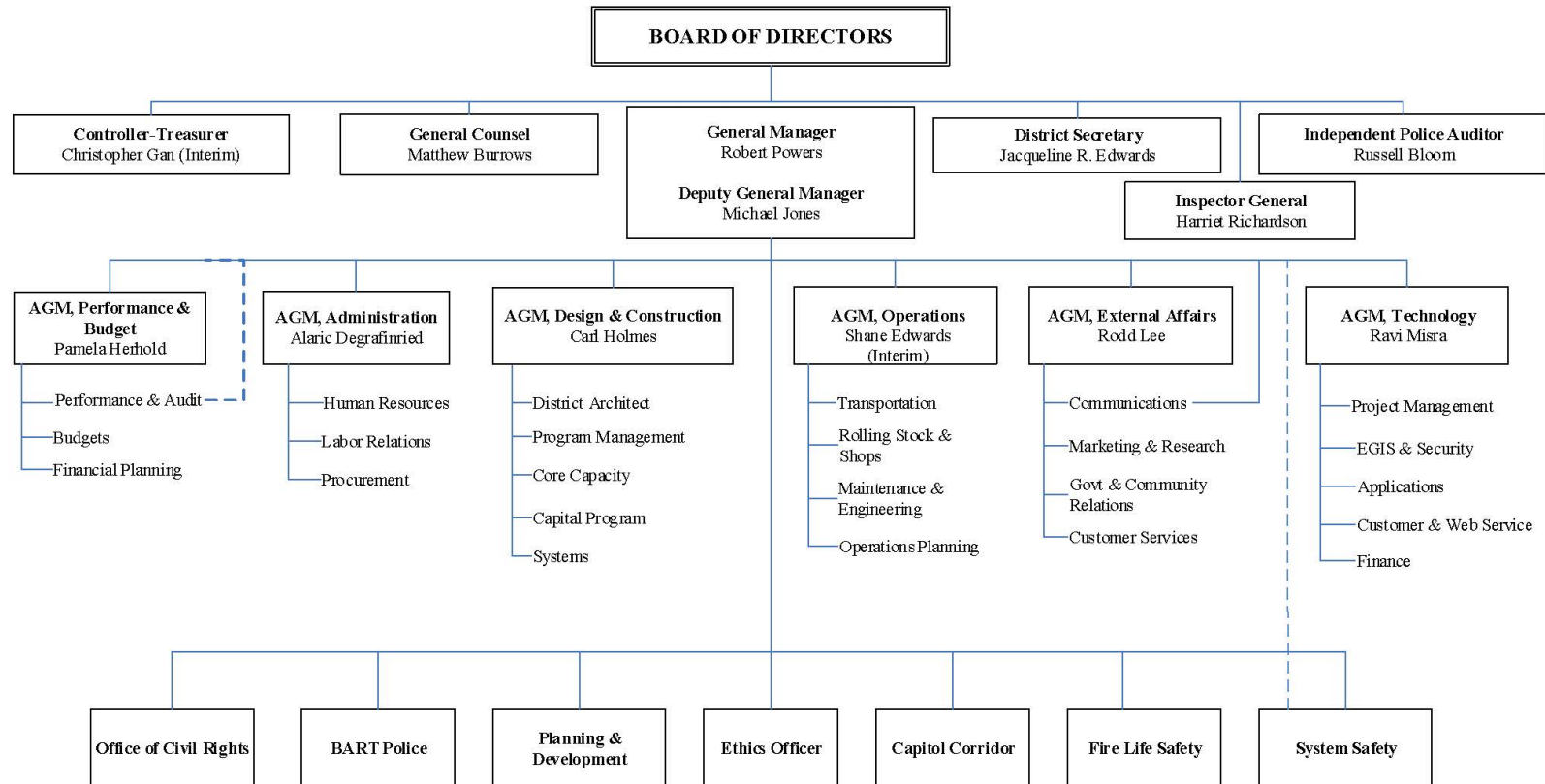
contractor's accident/injury reports, the Tailgate Safety Meeting reports and corrective action plan of any violations.

BART & Contractor Training Requirements for Conducting Investigations

BART requires that any personnel or contractors working on behalf of BART conducting investigations have received appropriate training in accordance with the Public Transportation Safety Certification Program, which presently includes the Transit Safety and Security Program (TSSP) certification (excluding Transit System Security) plus SMS coursework. This is in accordance with BART's requirements for its own personnel directly responsible for administering safety programs under 49 CFR Part 672. Such personnel will also complete RWP training if track access is necessary.

Appendix A: Organization Charts

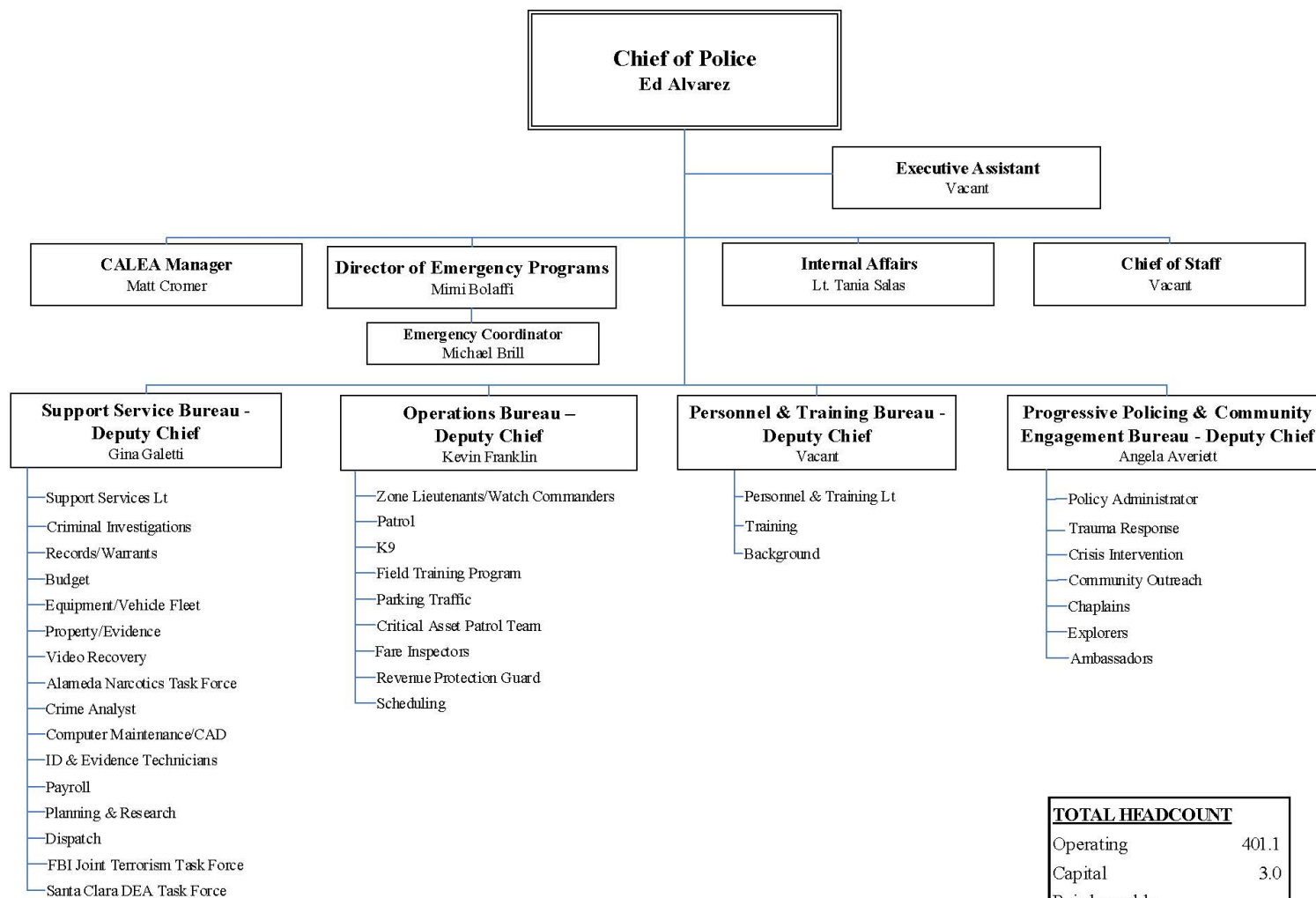
SAN FRANCISCO BAY AREA RAPID TRANSIT ORGANIZATION CHART FY23 Profoma Budget



TOTAL HEADCOUNT	
Operating	3,409.5
Capital	983.6
Reimbursable	39.5

POLICE DEPARTMENT

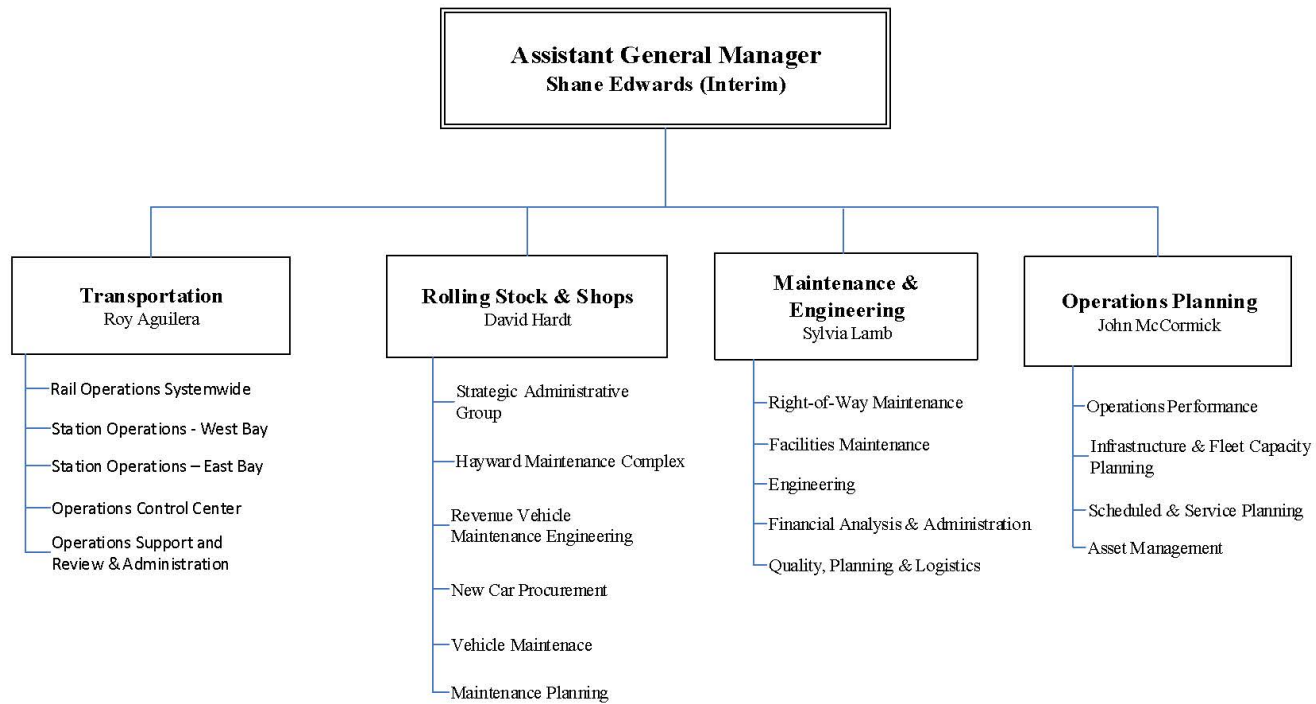
FY23 Proforma Budget



TOTAL HEADCOUNT	
Operating	401.1
Capital	3.0
Reimbursable	-

OPERATIONS OFFICE

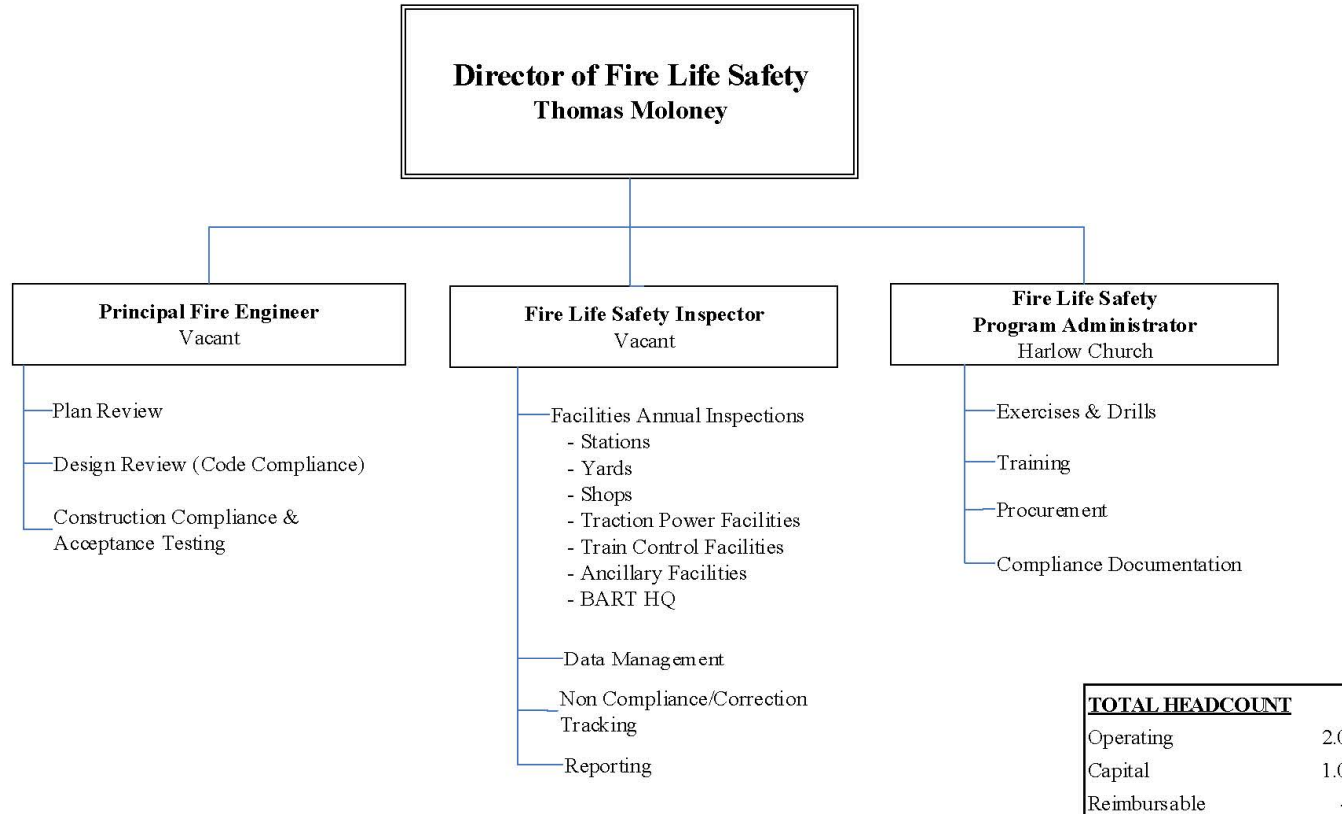
FY23 Proforma Budget



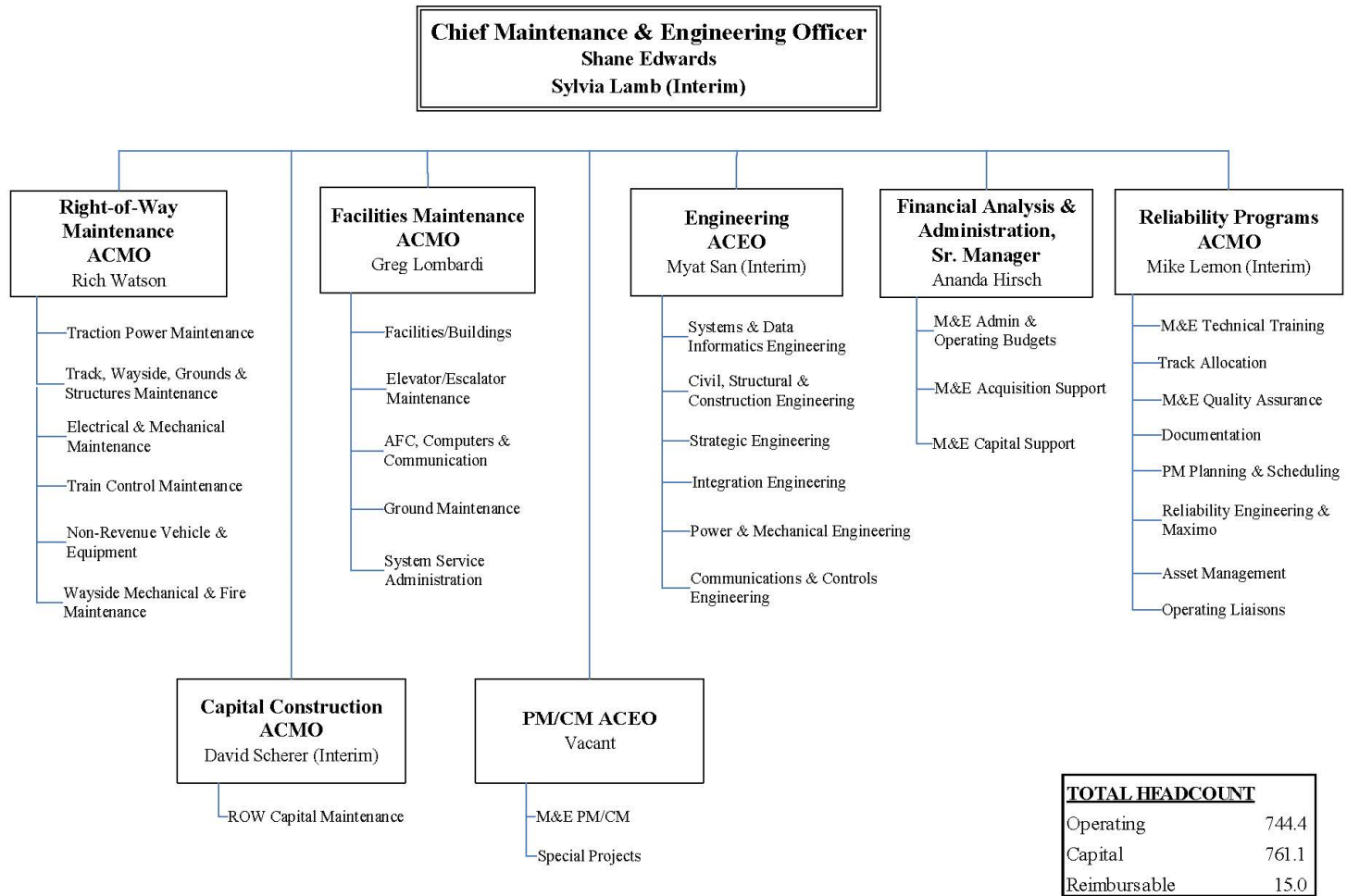
TOTAL HEADCOUNT	
Operating	2,575.4
Capital	847.8
Reimbursable	15.0

FIRE LIFE SAFETY

FY23 Proforma Budget

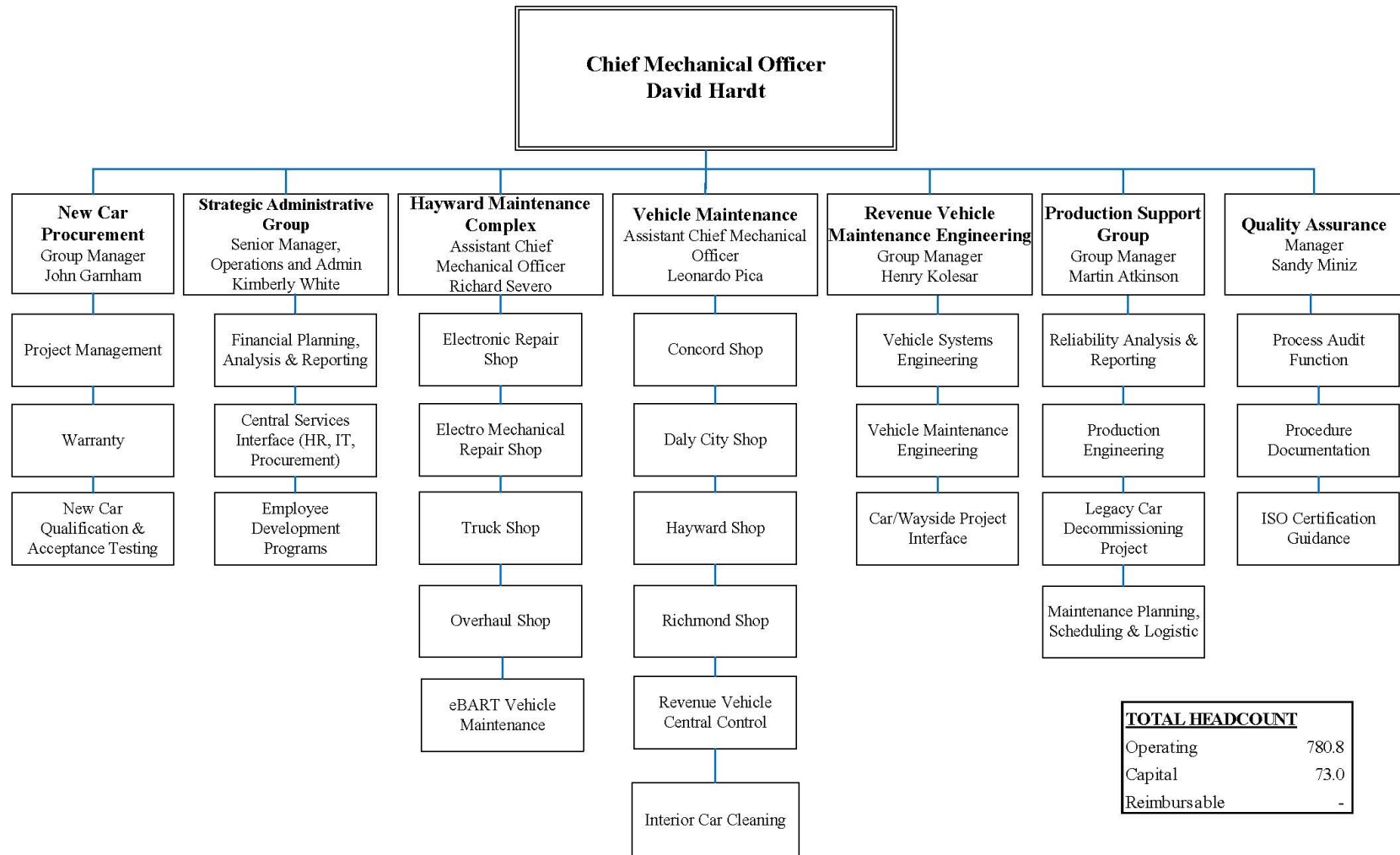


MAINTENANCE & ENGINEERING FY23 Proforma Budget

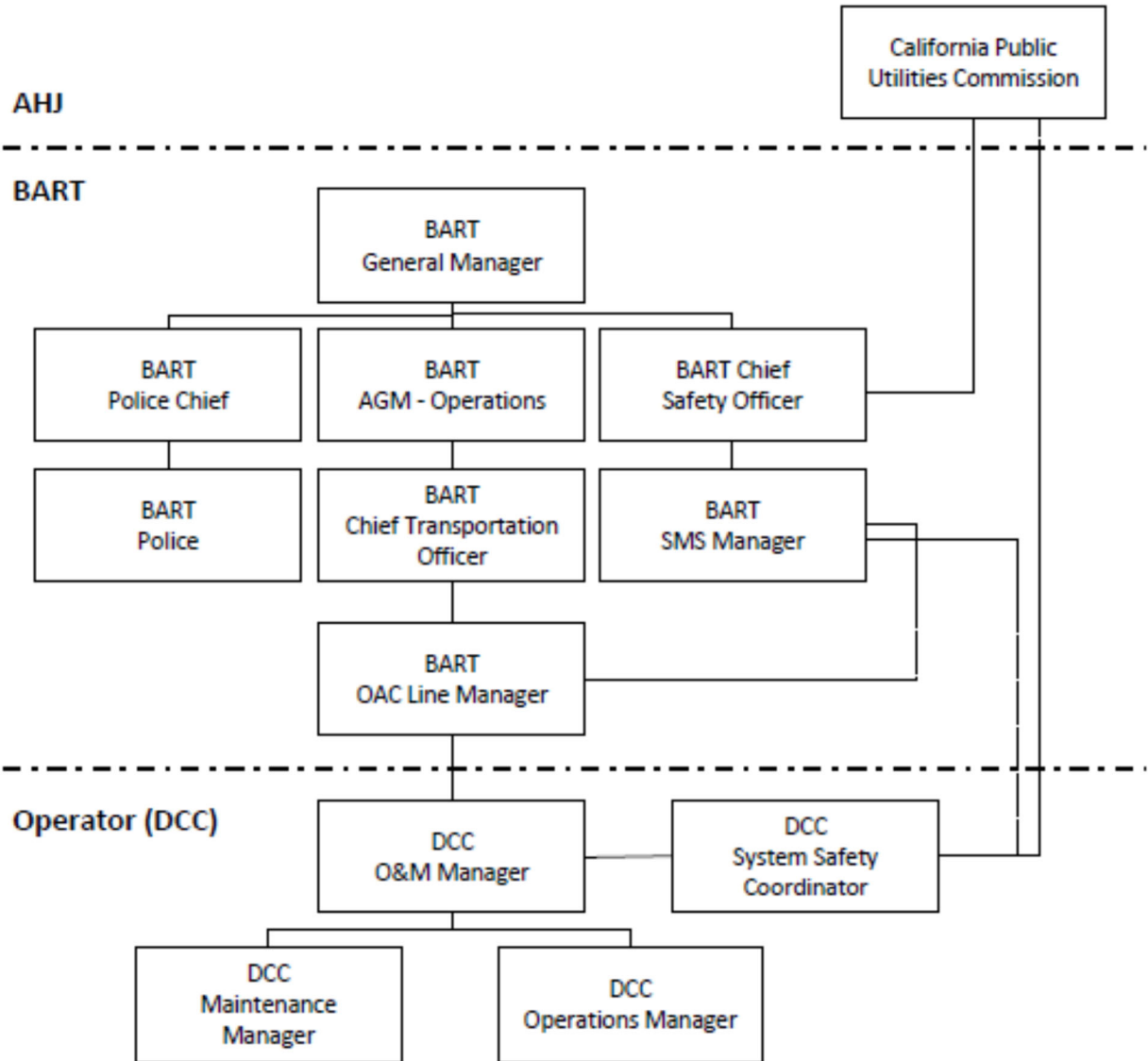


ROLLING STOCK & SHOPS

FY23 Proforma Budget



BART OAKLAND AIRPORT CONNECTOR ORGANIZATION



Appendix B: Definitions

As used in 49 CFR Part 673:

Accident 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.

Accountable Executive 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 49 U.S.C. 5329(D), and the agency's Transit Asset Management Plan in accordance with 49 U.S.C. 5326.

Chief Safety Officer 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.

Equivalent Authority 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.

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

Hazard 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.

Incident 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.

Investigation 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.

National Public Transportation Safety Plan means the plan to improve the safety of all public transportation systems that receive Federal financial assistance under 49 U.S.C. Chapter 53.

Occurrence 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.

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

Performance measure 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.

Performance target 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).

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

Rail fixed guideway public transportation system means any fixed guideway system that uses rail, is operated for public transportation, is within the jurisdiction of a State, and is not subject to the jurisdiction of the Federal Railroad Administration, or any such system in engineering or construction. Rail fixed guideway public transportation systems include but are not limited to rapid rail, heavy rail, light rail, monorail, trolley, inclined plane, funicular, and automated guideway.

Rail transit agency means any entity that provides services on a rail fixed guideway public transportation system.

Risk 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.

Safety Assurance 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.

Safety Management Policy 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.

Safety Management System (SMS) 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 risk and hazards.

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

Safety performance target means a Performance Target related to safety management activities.

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

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

Safety Risk Management 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 the injury was received;
2. Results in a fracture of a 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.

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

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

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

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

Transit agency means an operator of a public transportation system.

Transit Asset Management Plan 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.

Appendix C: Acronyms

As used throughout the District PTASP:

A	
ADA	Americans with Disabilities Act of 1990
AFC	Automatic Fare Collection
AFSCME	American Federation of State, County and Municipal Employees
AGT	Automated Guideway Transit
APM	Automated People Mover
ASCE	American Society of Civil Engineers
ATC	Automatic Train Control
ATP	Automated Train Protection
ATU	Amalgamated Transit Union
B	
BART	Bay Area Rapid Transit
BECO	BART Engineering Change Order
BPMA	BART Police Management Association
BPOA	BART Police Officers Association
BSN	BART Safety Notice
C	
Cal/OSHA	California Division of Occupation Safety and Health
CAP	Corrective Action Plan
CBTC	Communications-Based Train Control
CFR	Code of Federal Regulations
CPUC	California Public Utilities Commission
CRS	Component Repair Shop
CSO	Chief Safety Officer
D	
DCC	Doppelmayr Cable Car
DMU	Diesel Multiple Unit
E	
E-Line	East Contra Costa County Transit
eCOR	E-Line Code of Operating Rules
ECP	Employee Certification Plan
EIC	Employee in Charge
eMF	E-Line Maintenance Facility
EOC	Emergency Operations Center
EOP	Emergency Operations Plan
ESP	Earthquake Safety Program
F	
FLC	Fire Liaison Committee
FLSC	Fire Life Safety Committee
FPJV	Flatiron and Parsons
FTA	Federal Transit Administration
G	
G.O.	General Order

H	
HMC	Hayward Maintenance Complex
HVTM	Hazard Vulnerability Tracking Matrix
I	
ICS	Incident Command System
IIPP	Injury and Illness Prevention Program
IOP	Interim Operating Plan
ISSA	Internal Safety and Security Audit
ISSAP	Internal Safety and Security Audit Process
J	
JUMHSC	Joint Union/Management Health and Safety Committee
K	
KPI	Key Performance Indicator
L	
LMA	Lake Merritt Administration
M	
MARIS	Maintenance and Reliability Information System
M&E	Maintenance and Engineering
MMIS	Maintenance Management Information System
MPO	Metropolitan Planning Organization
MTC	Metropolitan Transportation Commission
MVDD	Maintenance Vehicle Detection Devices
N	
NIMS	National Incident Management System
NPTSP	National Public Transportation Safety Plan
NTD	National Transit Database
NTIS	National Technical Information Service
NTSB	National Transportation Safety Board
NVP	New Vehicle Procurement
O	
OAC	Oakland Airport Connector
OCC	Operations Control Center
OEM	Original Equipment Manufacturer
OES	Office of Emergency Services
O&M	Operations and Maintenance
OR&P	Operating Rules and Procedures
OSCP	Operations Safety Compliance Program Plan
P	
PBTB	Parsons-Brinckerhoff-Tudor-Bechtel
PHA	Preliminary Hazard Analysis
PIO	Public Information Officer
PPE	Personal Protective Equipment
PTASP	Public Transportation Agency Safety Plan
R	
RAC	Risk Assessment Code
ROW	Right of Way

RS&S	Rolling Stock and Shops
RWP	Roadway Worker Protection
S	
SDS	Safety Data Sheet
SEIU	Service Employees International Union
SFO	San Francisco Airport
SMS	Safety Management System
SPM	Safety Performance Measure
SPT	Safety Performance Target
SMS	Safety Management System
SR4	State Route 4
SSCP	Safety and Security Certification Program
SSCVR	Security Certification Verification Report
SSO	State Safety Oversight
SSOA	State Safety Oversight Agency
SSP	System Security Plan
SSPP	System Safety Program Plan
SSRC	Safety and Security Review Committee
SSWP	Site-Specific Work Plan
SVRT	Silicon Valley Rapid Transit
SVBX	Silicon Valley Berryessa Extension
T	
TAM	Transit Asset Management
TBT	Transbay Tube
TSA	Transportation Security Administration
TSSP	Transit Safety and Security Program
U	
UOR	Unusual Occurrence Report
USC	United States Code
V	
VME	Vehicle Maintenance Engineering
VRM	Vehicle Revenue Miles
VSE	Vehicle Systems Engineering
VRTA	Valley Transportation Authority
W	
WSX	Warm Springs Extension

Appendix D: Safety Management System Card

Front of SMS Card:

**Safety Management System (SMS)**

Your safety role and accountability in SMS:

- Always take safe course of action
- Work safely and follow all Operating and Safety rules and procedures

Report safety concerns, hazards, near misses/close calls, suggestions to the System Safety team by using any of the following:

- SystemSafety@bart.gov
- Talk to any System Safety staff member (see phone list on Sharepoint)
- Raise it at your local Safety Committee Meeting
- Submit a BART Safety Notice (Maximo or hardcopy); or
- Use Eler App, Web Link, QR Code, bartesp@ireportstuff.com; or
- Roadway Worker Near Miss Report (anonymously or confidentially)

Back of SMS Card:

Useful Numbers:

- BART main: 510-464-6000
- Safety Hotline: 510-466-1740
- OCC: x4152, 510-834-1297
- OAC Central Control Room: 510-568-5637 Ext. 4120
- eBART Control Center: 925-776-8001
- BART Police Dispatch: x7000, 510-464-7000
- Emergency Operations Center (EOC): x7810
- ATIS: x7288

*In case of injury, call the
BART workplace injury line: x3002, 888-247-7202*

If I am injured, please contact:

Name

Phone Number

Eler QR Code:



Appendix E: FTA PTASP Compliance Checklists

Date of Plan: February 2020

Date of Review Completion: February 2020

Approval Status: Draft Unsubmitted

#	CHECKLIST ITEM	673 PLAN REQUIREMENTS The plan must contain or provide for the following:	INCLUDED Yes — No	PAGE REF.
1.0	General Requirements	o Signed by accountable executive and approved by the agency's Board of Directors or an Equivalent Authority. 673.11(A)(1)	YES	Cover Page
		o Document the processes and activities related to SMS Implementation. 673.11(A)(2)	YES	5.2.3
		o Include performance targets based on the safety performance measures established under the National Public Transportation Safety Plan. 673.11(A)(3)	YES	4.0
		o Establish a process and timeline for conducting an annual review and update of the PTASP. 673.11(A)(5)	YES	3.2.1
		o Include or incorporate by reference in the PTASP an emergency preparedness and response plan or procedures that addresses, at a minimum, the assignment of employee responsibilities during an emergency and coordination with Federal, State, regional, and local officials with role sand responsibilities for emergency preparedness and response in the transit agency's service area. 673.11(A)(6)	YES	5.3
1.1	Safety Management Policy	o Establish organization accountabilities and responsibilities and have a statement of safety management policy including safety objectives. 673.23(A)	YES	1.0
		o The policy must be communicated throughout the organization. 673.23(C)	YES	5.4
		o Establish the necessary authorities, accountabilities, and responsibilities for the management of safety among the key safety roles within the organization 673.23(D)	YES	2.3
1.2	Employee Safety Reporting	o Establish and implement a process that allows employees to report safety conditions to senior management, protections for employees who report safety conditions to senior management, and a description of employee behaviors that may result in disciplinary action. 673.23(B)	YES	5.5
1.3	Accountable Executive	o Identify an accountable executive, accountable for ensuring that the agency's SMS is effectively implemented throughout the agency's public transportation system. 673.23(1)	YES	2.3.1
		o Accountable for ensuring action is taken, as necessary to address substandard performance in the agency's SMS.		
1.4		o Accountable executive must designate a CSO or SMS Executive who has the authority and responsibility for day-to-day implementation and operations of an agency's SMS. 673.23(2)	YES	2.3.3

#	CHECKLIST ITEM	673 PLAN REQUIREMENTS The plan must contain or provide for the following:	INCLUDED Yes — No	PAGE REF.
	Chief Safety Officer (CSO) or SMS Executive	- Must hold a direct line of reporting to the Accountable Executive, and may be the same individual. - Must be solely dedicated to this function and may not serve in other operational or maintenance capacities		
1.5	Agency Leadership and Executive Management	Identify those members of the leadership or executive management, other than the Accountable Executive, CSO, or SMS Executive, who have authorities or responsibilities for day-to-day implementation and operation of an agency's SMS. 673.23(3)	YES	2.3.4, 2.3.5, 2.3.6, 2.3.7, 2.3.8, 2.3.9, 2.3.10, 2.3.11
1.6	Key Staff	Agency may designate key staff, groups of staff, or committees to support the Accountable Executive, CSO, or SMS Executive in developing, implementing, and operating the agency's SMS. 673.23(4)	YES	2.3, 2.4
2.1	Safety Risk Management	Safety Risk Management Process must be developed and implemented for all elements of the public transportation system. 673.25(A)	YES	6.0
2.2	Safety Hazard Identification	- Establish methods and process to identify hazards and consequences of the hazards. 673.25(B)(1) - A possible source for hazard information is the SSOA and FTA. 673.25(B)(2)	YES	6.1
2.3	Safety Risk Assessment	- Establish methods or processes to assess the safety risks associated with identified safety hazards. 673.25(C)(1) - Includes an assessment of the likelihood and severity of the consequences of the hazards, including existing mitigations, and prioritization of the hazards based on the safety risk. 673.25(C)(2)	YES	6.2
2.4	Safety Risk Mitigation	Establish methods or processes to identify mitigations or strategies necessary as a result of the safety risk assessment to reduce the likelihood and severity of the consequences. 673.25(D)	YES	6.3
3.1	Safety Assurance: Performance Monitoring and Measurement	- Develop and implement a safety assurance process including safety performance monitoring and measurement of the following: 673.27(B) - compliance with and sufficiency of the agency's procedures for operations and maintenance 673.27(B)(1) - operations to identify any safety risk mitigations that may be ineffective, inappropriate, or were not implemented as intended 673.27(B)(2)	YES	7.0
			YES	7.1, 7.2, 7.3, 7.4, 7.5, 7.6
				5.5

#	CHECKLIST ITEM	673 PLAN REQUIREMENTS The plan must contain or provide for the following:	INCLUDED Yes — No	PAGE REF.
		information reported through any internal safety reporting programs 673.27(B)(4)		
		Conduct investigations of safety events to identify causal factors 673.27(B)(3)	YES	7.4
3.2	Management of Change	- Establish a process for identifying and assessing changes that may introduce new hazards or impact the transit agency's performance. 673.27(C)(1) - If the agency determines that a change may impact its safety performance, then it must evaluate the proposed change through the Safety Risk Management Process 673.27(C)(2)	YES	7.6
3.3	Continuous Improvement	- Establish a process to assess safety performance. 673.27(D)(1) - If the agency identifies any deficiencies as part of its safety performance assessment, then the transit agency must develop and carry out, under the direction of the Accountable Executive, a plan to address the identified safety deficiencies. 673.27(D)(2)	YES	7.1, 7.7
4.1	Safety Promotion: Training Program	Establish and implement a comprehensive safety training program for all agency employees and contractors directly responsible for safety in the agency's public transportation system and include refresher training as necessary. 673.29(A)	YES	8.0, 8.1
4.2	Safety Communication	Must communicate safety and safety performance information throughout the agency's organization that, at a minimum, conveys information on hazards and safety risks relevant to employees' roles and responsibilities and informs employees of safety actions taken in response to reports submitted through an employee safety reporting program. 673.29(B)	YES	5.5, 6.1, 8.4.1

FTA 674 Supplemental Checklist Items:			
#	PLAN REQUIREMENTS The plan must contain or provide for the following:	INCLUDED Yes — No	PAGE REF.
Section A. Transit Agency Information:			
A-6	o Transit agency name and address .	YES	Cover Page
A-2	o Mode(s) of transit service covered by the ASP (§ 673.11(b)).	YES	2.0
Section B. Plan Development, Approval, and Updates:			
B-4	o Certification of compliance with the Program Standard established by the SSOA, including the name of the individual or entity that certifies compliance with the SSOA's Program Standard and date of certification (§ 674.29(a)).	YES	Cover Page
B-5	o Process and timeline for conducting an annual review and update of the ASP (§ 673.11(a)(5) and § 674.29(b)), including the ASP version number and other relevant information.	YES	3.2.1
Section D. Safety Performance Targets			
D-1	o Fatalities: Total number of reportable fatalities and rate per total vehicle revenue miles, by rail transit mode (National Safety Plan and § 673.11(a)(3)).	YES	4.1
D-2	o Injuries: Total number of reportable injuries and rate per total vehicle revenue miles, by rail transit mode (National Safety Plan and § 673.11(a)(3)).		
D-3	o Safety Events: Total number of reportable events and rate per total vehicle revenue miles, by rail transit mode (National Safety Plan and § 673.11(a)(3)).		
D-4	o System Reliability: Mean (or average) distance between major mechanical failures, by rail transit mode (National Safety Plan and § 673.11(a)(3)).		
Section G. Safety Risk Management			
G-1	o Safety Risk Management process for all system elements (§ 673.21(b), § 673.25, and § 674.29(b)).	YES	6.0
G-2	o Process for hazard identification including identifying consequences of hazards (§ 673.25(a), § 673.25(b)(1), and § 674.7).	YES	6.1
G-7	o Process for safety risk management, with adequate means of risk mitigation (§ 673.25 and § 674.29(b)).	YES	6.2, 6.3
Section H. Safety Assurance			
H-4-a	o SSOA requirements for notifying the SSOA of accidents including time limits for and methods of notification and what information the RTA must submit to the SSOA (§ 674.27(a)(6) and § 674.33(a)).	YES	7.4
H-4-b	o FTA requirements to notify the SSOA and FTA within two hours of any accident occurring on the RTA system (§ 674.33(a)).	YES	7.4

FTA 674 Supplemental Checklist Items:			
#	PLAN REQUIREMENTS The plan must contain or provide for the following:	INCLUDED Yes — No	PAGE REF.
H-4-c	○ What must be included in any investigation report developed on behalf of the SSOA, including, at a minimum, identification of factors that caused or contributed to the accident and setting forth a Corrective Action Plan as appropriate (§ 674.35(b)).	YES	7.4
H-4-d	○ How the RTA will work with the SSOA when conducting its own internal investigation of a safety event (§ 674.35(a)).	YES	7.4
H-4-e	○ The process through which the RTA will review investigation reports developed by the SSOA, and submit written dissent, as appropriate (§ 674.35(b)).	YES	7.4
H-4-f	○ Training requirements for all personnel and contractors that conduct investigations on behalf of an SSOA in accordance with the Public Transportation Safety Certification Program (§ 674.35(c)).	YES	8.4.2
H-8-a	○ Notifying the SSOA before conducting any internal safety review, following the process specified in the SSOA Program Standard (§ 674.27(a)(4)).	YES	7.1.1, 7.1.2, 7.1.3
H-8-b	○ Submitting materials regarding the conduct and results of internal safety reviews to the SSOA under the Accountable Executive's signature (§ 674.27(a)(4)).	YES	7.1.1, 7.1.2, 7.1.3
Section L. SSOA Compliance Assessment			
L-1	○ Is consistent with FTA's regulations for implementing such plans and the National Public Transportation Safety Plan (§ 674.29(a)).	YES	2.0, 4.0
L-2	○ In compliance with the SSOA's Program Standard (§ 674.29(a)).	YES	5.2.1
L-3	○ Is approved by the RTA's board of directors or equivalent entity (§ 674.29(b)).	YES	1.0
L-4	○ Sets forth a sufficiently explicit process for safety risk management, with adequate means of risk mitigation for the rail transit system (§ 674.29(b)).	YES	6.0, 6.1, 6.2, 6.3
L-5	○ Includes a process and timeline for annually reviewing and updating the ASP (§ 674.29(b)).	YES	3.2.1
L-6	○ Includes a comprehensive staff training program for the operations personnel directly responsible for the safety of the RTA (§ 674.29(b)).	YES	8.1.1
L-7	○ Identifies an adequately trained safety officer who reports directly to the general manager, president, or equivalent officer of the RTA (§ 674.29(b)).	YES	2.3.3
L-8	○ Includes adequate methods to support the execution of the ASP by all employees, agents, and contractors for the rail transit system (§ 674.29(b)).	YES	Throughout
L-9	○ Sufficiently addresses other requirements under the regulations at 49 C.F.R. Part 673 (§ 674.29(b)).	YES	Throughout

Appendix F: Board of Directors' Approval

Date of Meeting: May 28, 2020

Status: Approved and Adopted

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
300 Lakeside Drive, P.O. Box 12688, Oakland, CA 94604-2688

Board of Directors
Minutes of the 1,864th Meeting
May 28, 2020

A regular meeting of the Board of Directors was held on May 28, 2020, convening at 9:00 a.m. via teleconference, pursuant to Governor Gavin Newsom's Executive Order N-29-20 and the California Shelter-in-Place mandate. President Simon presided; Patricia K. Williams, District Secretary.

Directors Present: Directors Ames, Duffy, Foley Li, McPartland, Raburn, Saltzman and Simon.

Absent: None. Director Allen entered the Meeting later.

President Simon gave opening remarks and instructions on the virtual meeting, accessing presentation materials online, and Public Comment.

Director Allen entered the Meeting.

President Simon announced that Item 6-A, BART Headquarters Office Building (2150 Webster St., Oakland, CA), had been removed from the Meeting agenda and that the Item would be discussed at a future meeting. She also gave instructions on Board Members' remarks.

Consent Calendar action items brought before the Board were:

1. Approval of Minutes of the Meeting of May 14, 2020.
2. Revision of the Selection of Underwriting Pool from which Senior Manager and Co-Managers Will Be Designated for the Issuance and Sale of the District's Bonds.
3. Approval of BART's Public Transportation Agency Safety Plan (PTASP).
4. Extension of Agreement No. 6M6122 with eLock Technologies, LLC to Provide On-Demand Bike Locker and Bike Station Kiosk Maintenance Services for BART's Program.

Director Raburn made the following motions as a unit. Director McPartland seconded the motions.

1. That the Minutes of the Meeting of May 14, 2020 be approved.
2. That the revised list of Underwriters as shown on Exhibit A be approved. (Exhibit A is attached and hereby made a part of these Minutes).
3. That the BART Public Transportation Agency Safety Plan dated May 8, 2020 be approved and adopted. (The PTASP is attached and hereby made a part of these Minutes).
4. That the General Manager or his designee be authorized to negotiate a one-year extension of Agreement No. 6M6122 with eLock Technologies for a BikeLink locker and Bike Station kiosk maintenance agreement in an amount not-to-exceed \$207,250.00.

-1-

Director McPartland recognized System Safety Department staff for their work on the PTASP.

The motions brought by Director Raburn and seconded by Director McPartland carried by unanimous roll call vote. Ayes: 9 – Directors Allen, Ames, Duffy, Foley, Li, McPartland, Raburn, Saltzman, and Simon. Noes: 0. (Director Allen's vote was received later due to audio/visual technical difficulties.)

President Simon called for general Public Comment.

Ms. Williams read written comments submitted by the following individuals into the record:

Kiara Evans
Michelle Voz
Alan Hogan
Jordan Miner
Amanda Delsid
Isaac S.
Jane
Andrew Klein

President Simon gave additional instructions regarding Public Comment.

Aleta Dupree and Daniel Golinski addressed the Board via telephone.

Director McPartland, Chairperson of the Administration Committee, brought the matter of COVID-19 Update: Impact of and Responses to COVID-19 before the Board.

Ms. Tamar Allen, Assistant General Manager, Operations; Chief of Police Ed Alvarez; Ms. Pamela Herhold, Assistant General Manager, Performance and Budget; Ms. Alicia Trost, Chief Communications Officer; Mr. Rodd Lee, Assistant General Manager, External Affairs; Ms. Gia Ilole, Assistant General Manager, Administration; and Mr. Robert Powers, General Manager, presented the item. The presentation contained sections on Front Line and Public Safety Efforts, Ridership, Advocacy, and Employee and Labor Partner Engagement.

Aleta Dupree addressed the Board via telephone.

The item was discussed, with the following highlights:

Director Saltzman thanked BART employees; commented on and/or inquired about employee testing, the 15 Step Welcome Back Plan (hereinafter referred to as "Plan"), publication and communication of the Plan, support for the new seat layout pilot, BART Police Department (BPD) enforcement efforts as outlined in the Plan, updating the BPD information in the Plan, increased BPD presence and fare checks, as outlined in the Plan; and requested the she be provided a full briefing on the Plan, that the BPD information in the Plan be re-written, and that the Plan be reviewed.

Director Raburn thanked BART employees; applauded Ms. Dupree's comments regarding protection of employees and passengers; and commented on and/or inquired about the communication of the Plan, recovery, the provision of masks to the public, increased BPD presence on trains, system hardening, public safety, accessibility and the proposed seat

-2-

Appendix F: SMS Joint Union/Management Safety Committee's Approval

SMS SAFETY COMMITTEE MEETING MINUTES

Location: TEAMS
Date: 12/22/2022
Time: 2:00pm
Facilitator: Tony Onisko

Agenda Items

1. Tony Onisko shared the SMS Joint Union/Management Safety Committee plan via TEAMS and members went through the revised document line by line and made changes via member discussion.
2. The group discussed the safety plans requested by the ATU and any additional concerns. The system safety department offered to share additional safety information moving forward as needed.
3. The revised PTASP was approved by a unanimous vote.
4. The revised SMS Joint Union/Management Safety Committee Plan was approved by a unanimous vote.
5. The next meeting was scheduled for February 2, 2023, at 1:00pm.



EXECUTIVE DECISION DOCUMENT

GENERAL MANAGER APPROVAL: DocuSigned by: <i>Michael Jones</i> 47000790F2D7463...		GENERAL MANAGER ACTION REQ'D: Approve and forward to the Board		
DATE: 2/23/2023		3/1/2023		
BOARD INITIATED ITEM: No				
Originator/Prepared by: Paul Voix Dept: Real Estate & Program Development DocuSigned by: <i>Paul Voix</i> 086DD0E125C04C6... Signature/Date: 2/28/2023	General Counsel DocuSigned by: <i>Jana Belan</i> F8FD7B3A73E74E8... Signature/Date: 2/28/2023 []	Controller/Treasurer DocuSigned by: <i>Chris Gan</i> EE11C8CEEAA04FD... Signature/Date: 2/28/2023 []	District Secretary DocuSigned by: <i>Val Menotti</i> AA8F1409A8F748E... Signature/Date: 2/28/2023 []	BARC DocuSigned by: <i>Val Menotti</i> AA8F1409A8F748E... Signature/Date: 2/28/2023 []

Grant of Roadway Easements to Cities of South San Francisco and San Bruno for Intersection Improvements by Lane Partners

PURPOSE:

To obtain Board approval for the conveyance of a 10,797 square foot permanent roadway easement to the City of South San Francisco and a 4,328 square foot permanent roadway easement to the City of San Bruno.

DISCUSSION:

Lane Partners of Menlo Park, CA is proposing a three million square foot transit-oriented life sciences campus in the southernmost portion of the City of South San Francisco within a five-minute walk from the San Bruno BART Station. As part of their traffic mitigation for the project, the cities of South San Francisco and San Bruno are requiring improvements to the intersection of Sneath, Huntington and South Maple Avenues which will improve overall connectivity to BART. A portion of this intersection is within the city limits of South San Francisco and a portion of it is within the city limits of San Bruno.

The intersection improvement project includes a 15,125 square foot portion of BART fee right of way of which 10,797 square feet lie in South San Francisco and 4,328 square feet lie in San Bruno (Exhibit 1 - Location Map and Exhibit 2 - Easement Area attached).

The subject easement areas are on land that was purchased with federal funds for BART's San Francisco Airport Extension (SFOX) Project under the now closed San Francisco Airport Extension Full Funding Grant Agreement (CA-03-0394-03). BART runs underground at this location and the surface area of the subject easement areas currently

serve as landscaping and a small portion of South San Francisco's Centennial Way Trail. A PG&E electric distribution facility within the easement area will be relocated as part of the intersection project at Lane Partners' expense. The proposed easements will not affect BART's transit operations and BART will not be giving up any rights to operate its transit system as a result of the sale of said easements.

The entire intersection improvement project costs are to be funded by Lane Partners, including the acquisition costs of said easements from BART. Lane Partners has offered to purchase the easements for South San Francisco and San Bruno and have the easement rights transferred from BART directly to the cities. Lane Partners has agreed to pay BART the full appraised fair market value of \$757,000 for the easement rights based on an appraisal report prepared by Terry S. Larson, MAI of Larson Valuation, LLC, dated December 20, 2022.

The subject property consists of small portions of SFOX Parcel Numbers D-3110-1, D-3153-1, D-3492-1A, and D-3496-1A (San Mateo County Assessor Parcel Numbers 014-311-050, 014-317-030, 093-340-030, and 093-340-080).

The appraisal establishes fair market value and conforms to Standards Rule 2-2(a) of the Uniform Standards of Professional Appraisal Practice (USPAP) and the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, 42 U. S. C. 4601 et seq., (URA) as amended.

The Lane Partners project will result in improved pedestrian and bicycle access to the San Bruno BART Station by connecting the station to the north-south 2.85 mile Centennial Trail bike path with a 15' wide multi use path for pedestrians and cyclists, and by creating four new crosswalks with bikeways and signalization at the intersection.

FISCAL IMPACT:

Once the easement transfer takes place, upon BART Board and Federal Transit Administration (FTA) approval, BART will receive \$757,000 for the sale of the easements. BART will incur no costs in selling the easements other than Real Estate and Property Development staff time. The sale proceeds will be reprogrammed in accordance with FTA Circular 5010.1E (Grant Management Guidelines), Page IV-19, Section 2.j.(2)b.3, Sell and Use Proceeds for Other Capital Projects Under an Award, which permits fund grantees to retain program income so long as it is used only for mass transit purposes. The program income generated from the sale of these easements will be included in the funding plan for the Elevator Modernization Program.

ALTERNATIVE:

Do not approve the sale of the easements and possibly stall the development of the Southline transit-oriented life sciences campus located steps away from the San Bruno BART Station.

RECOMMENDATION:

Adopt the following Motion.

MOTION:

The Board of Directors authorizes the General Manager or his designee, the Director of Real Estate and Property Development, to enter into Agreements of Purchase with Lane Partners for the sale of a 15,125 square foot roadway easement area on a portion of BART Parcel Numbers D-3110-1, D-3153-1, D-3492-1A, and D-3496-1A for conveyance to the Cities of South San Francisco and San Bruno.

Subject BART Property

15,125 SF Roadway Easement

Legend

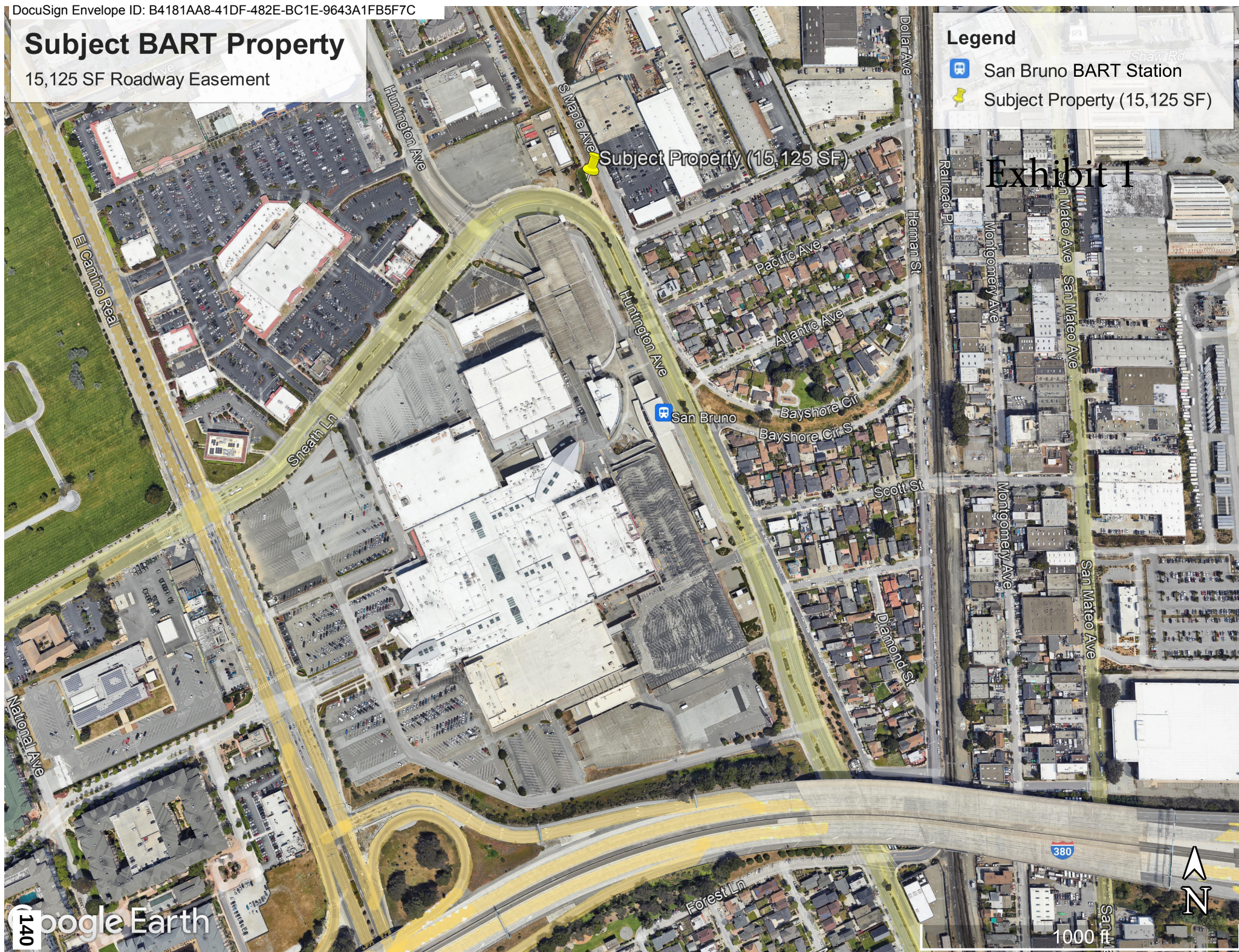


San Bruno BART Station

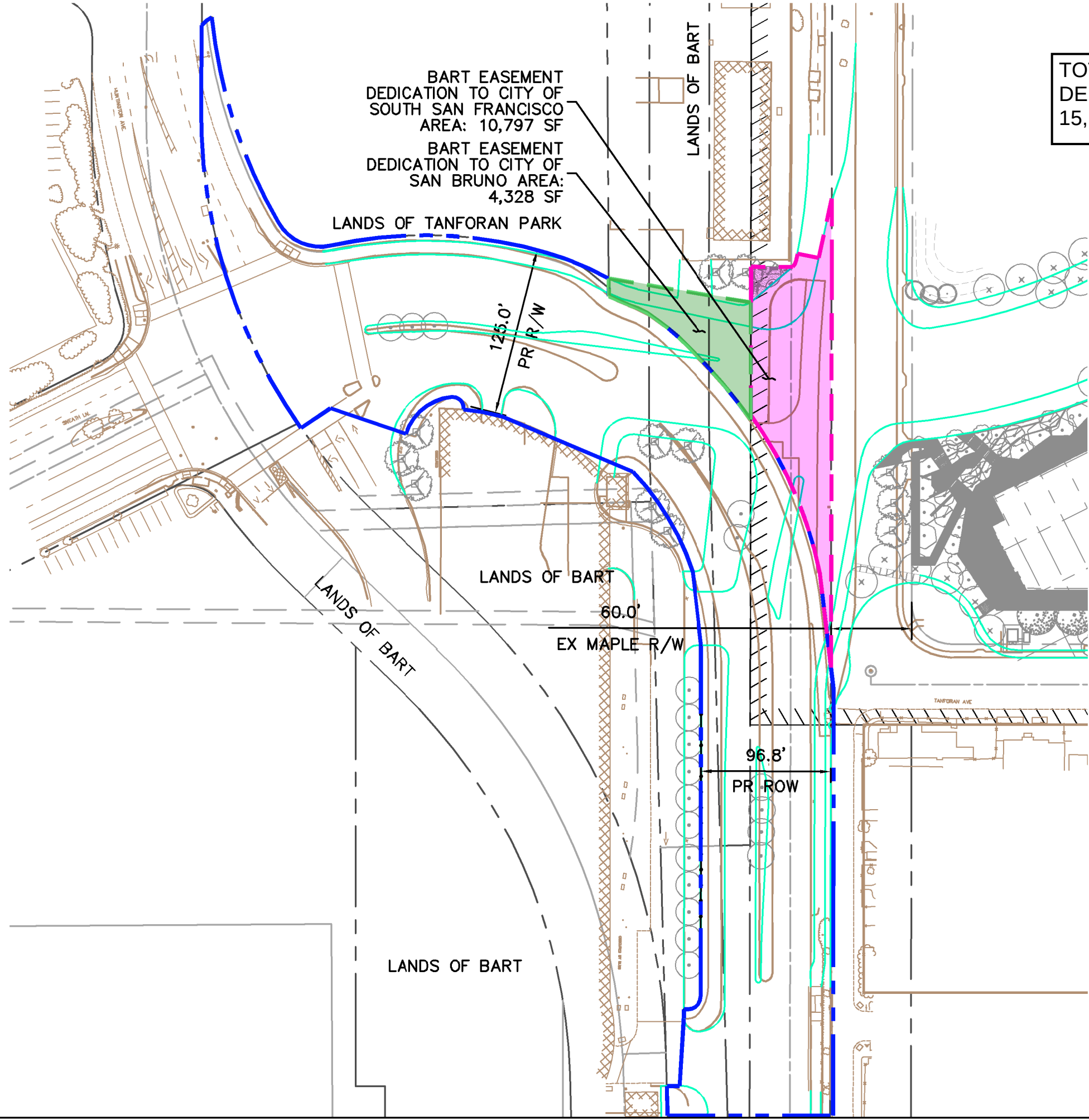


Subject Property (15,125 SF)

Exhibit I



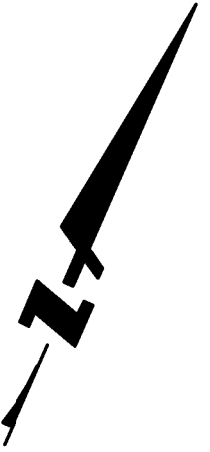
DRAWING NAME: \\BKF-PL\Vol14\2018\180824_Tanforan_Lane-Partnera\ENG\EXHIBITS\Boundary Exhibit\23_0208_BART_Easement_Exhibit.dwg
PLOT DATE: 02-16-23 PLOTTED BY: zhan



TOTAL BART EASEMENT
DEDICATION AREA:
15,125 SF

Exhibit 2

GRAPHIC SCALE



4670 WILLOW RD
SUITE 250
PLEASANTON, CA 94588
925-396-7700
925-396-7799 (FAX)



BART Easement Exhibit

Date	02/09/23	No.		Revisions
Scale AS SHOWN				
Design MZ				
Drawn MZ				
Approved EC				
Job No	2018024			

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

MEMORANDUM

TO: Board of Directors

DATE: March 3, 2023

FROM: General Manager

RE: Transit-Oriented Development (TOD) Program Update

At the March 9, 2023 BART Board meeting, staff will provide an informational update on the Transit-Oriented Development Program.

If you have any questions, please contact Val Menotti, Chief Planning & Development Officer, at (510) 287-4794.

DocuSigned by:

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Robert Powers

cc: Board Appointed Officers
Deputy General Manager
Executive Staff



Transit Oriented Development (TOD) Update

BART Board | March 9, 2023

Why Transit-Oriented Development?

- **Attract New Riders.** TOD residents **twice as likely** to commute on BART than non-TOD residents
- **Address Climate Change.** Housing near transit produces **50% fewer auto trips** vs conventional development.
- **Lower Cost of Living.** Transportation costs for those living near BART are **24% lower than average.**



TOD Policy Overview: Goals

- A. **Complete Communities.** Partner to ensure BART contributes to neighborhood/district vitality, creating places offering a mix of uses and amenities.
- B. **Sustainable Communities Strategy.** Lead in the delivery of the region's land use and transportation vision to achieve quality of life, economic, and greenhouse gas reduction goals.
- C. **Ridership.** Increase BART ridership, particularly in locations and times when the system has capacity to grow.
- D. **Value Creation and Value Capture.** Enhance the stability of BART's financial base by capturing the value of transit, and reinvesting in the program to achieve TOD goals.
- E. **Transportation Choice.** Leverage land use and urban design to encourage non-auto transportation choices both on and off BART property, through enhanced walkability and bikeability, and seamless transit connectivity.
- F. **Affordability.** Serve households of all income levels by linking housing affordability with access to opportunity.

Board update adopted April 2020

TOD Policy Overview: Adopted Performance Targets

- A. **Complete Communities:** *20,000 units and 4.5 million square feet commercial by 2040. Min density 75 du/ac.*
- B. **Sustainable Communities Strategy:** *1-2 catalytic projects per year.*
- C. **Ridership:** *Weekday ridership, Transportation Demand Management (TDM) Programs in Job Centers near BART.*
- D. **Value Capture:** *Pilot new finance mechanisms to support transit, TOD*
- E. **Transportation Choice:** *0.9 car parking spaces/unit average; 1.6 car parking spaces/1,000 sf office/retail average. ½ to ¾ of TOD projects include GreenTrip Equivalent TDM measures.*
- F. **Affordability & Equity:** *35% units affordable.*

Board adopted December, 2016

TOD Targets: Status Update

- **Program target:** 7000 units, 35% affordable by 2025
- **Completed:** 4,140 housing units, 25% affordable
- **Completed & planned:** 7,648 units, 36% affordable

Status	Station	Total Units	Affordable Units	% Affordable	Office (SF)	Retail (SF)
COMPLETED	Castro Valley (1993)	96	96	100%		
	Fruitvale Phase I (2004)	47	10	21%	27,000	37,000
	Fruitvale Phase IIA (2019)	94	92	98%		
	Pleasant Hill Blocks A & B (2008)	422	84	20%		35,590
	Pleasant Hill Block C (2020)	200	0	0%		
	Hayward (1998)	170	0	0%		
	Ashby (2011)	0	0	0%	80,000	
	Richmond Phase I (2004)	132	66	50%		9,000
	MacArthur Phase I (2016)	90	90	100%		
	MacArthur Phase II (2019)	385	0	0%		39,100
	MacArthur Phase III (2020)	402	56	14%		
	San Leandro Ph I (2017)	115	115	100%	5,000	1,000
	San Leandro Ph II (2019)	85	85	100%		
	West Dublin (2013)	309	0	0%		
	East Dublin (2008)	240	0	0%		
	South Hayward (2017)	354	152	43%		
	Coliseum (2019)	110	55	50%		
	West Pleasanton (2019)	0	0	0%	410,000	
	Walnut Creek Phase II (2022)	358	0	0%		15,000
	Millbrae (2022)	400	100	0.2	150,000	45,000
	Balboa Park (2023)	131	131	100%		11,400
TOTAL COMPLETED		4,140	1132	27%	672,000	193,090
CONS TRUC	Fruitvale Phase IIB	181	181	100%		6,000
TOTAL UNDER CONSTRUCTION		181	181	100%	0	6,000
PLANNING/PRE-DEVELOPMENT	West Oakland	762	240	31%	300,000	52,625
	Walnut Creek Phase III	238		0%		
	Lake Merritt	557	233	42%	500,000	25,000
	West Dublin	300	300	100%		
	Pleasant Hill Block D*				290,000	
	El Cerrito Plaza*	700	350	50%		
	North Berkeley*	770	300	39%		
TOTAL IN PLANNING/PRE-DEVELOPMENT		3,327	1,423	43%	1,090,000	77,625
GRAND TOTAL		7,648	2,736	36%	1,762,000	276,715
*Estimated development program						

BART TOD Program Performance - Revenue

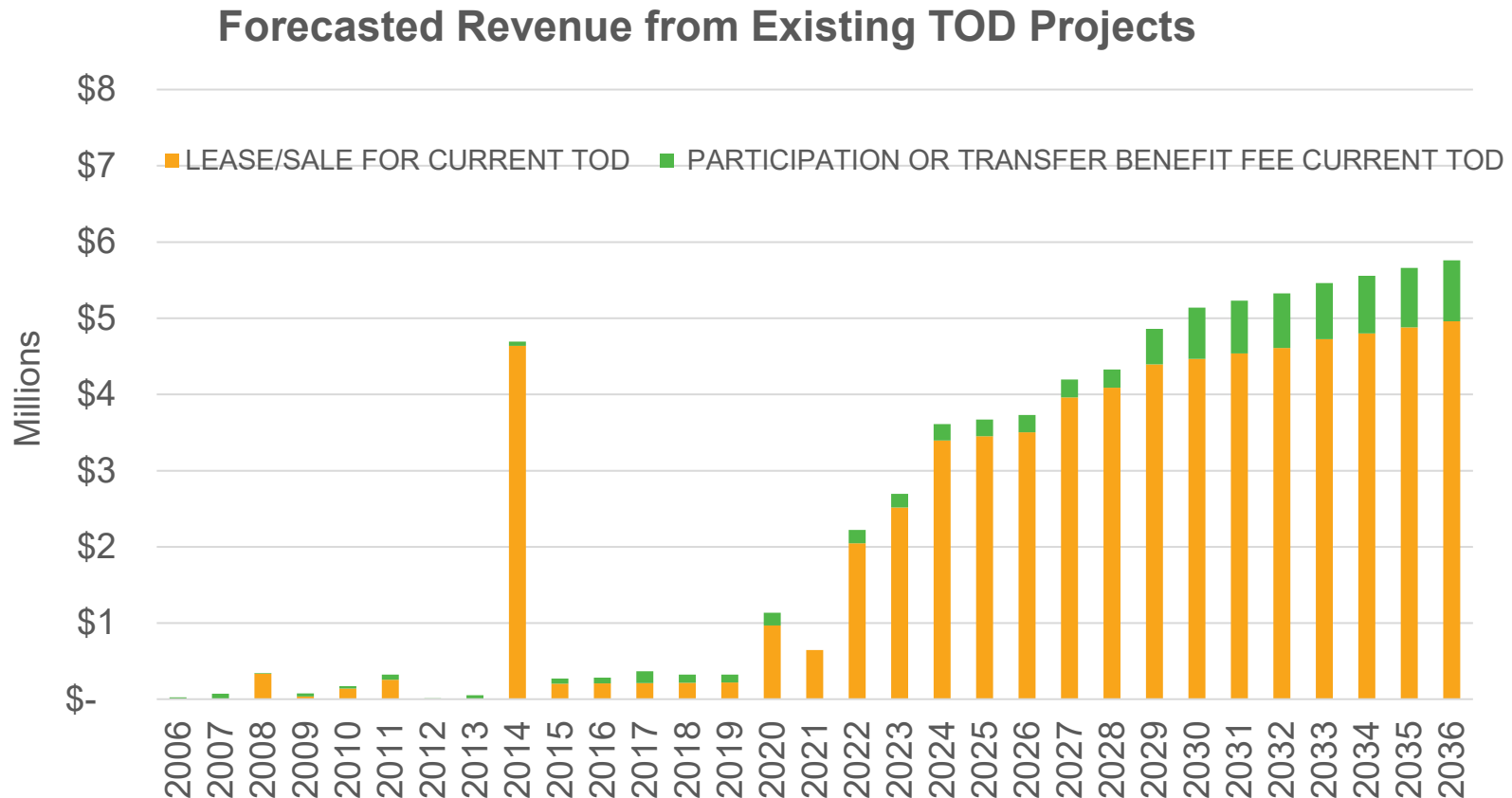


Chart reflects: Castro Valley, South Hayward, Fruitvale, MacArthur, Pleasant Hill Phase I, West Dublin (Essex, Workday, Options), Walnut Creek Phases I-III, Pleasant Hill Block C, Coliseum, West Oakland, Lake Merritt

Not reflected: Projects without financials yet- North Berkeley, Ashby, El Cerrito, West Dublin/Pleasanton affordable housing; 5 projects in which BART's participation came in the form of land swaps or developer-provided BART infrastructure

TOD Funding & BART Projects

Affordable Housing and Sustainable Communities (AHSC) state grant program:
example of TOD brings in funding for BART projects

AHSC Round	Total \$ to BART Projects	BART Uses Stations	# Housing Units Leveraged
1	\$433,000	Bike channels, bike parking, bike lockers, wayfinding Oakland 12th St, Hayward	185
2	\$151,800	Bike channels, accessible fare gate Lake Merritt	201
3	\$360,000	Bike Stair Channel MacArthur	51
4	\$3,900,000	Access improvements, Canopy, Tail Track, Station Improvements, Security Cameras North Berkeley, Civic Center, Millbrae	330
5	\$35,313,430	Railcars (24), plaza, bike/ped access Ashby, Balboa Park, Bay Fair, Concord, Fruitvale, North Berkeley, Powell, West Oakland	913
6	\$31,513,050	Railcars (12), Next Generation Faregates, Access lighting Lake Merritt, Balboa Park, El Cerrito Del Norte, MacArthur, Union City	531
TOTAL	\$71,671,280		2,211
7 (not yet awarded)	\$58,000,000	Railcars (19), Next Generation Faregates, Access and Platform improvements Richmond, West Dublin/Pleasanton, El Cerrito Plaza, Bay Fair, Balboa Park, Walnut Creek, South San Francisco, Embarcadero	1,397

Waymark (Walnut Creek Phase II)

Developer: Walnut Creek Transit Lifestyle Associates, LLC

- 358 housing units
- 15,000 sq ft retail
- Grand Opening May 2023



Image courtesy of Walnut Creek Transit Lifestyle Associates, LLC

Gateway@Millbrae

Developers: Republic Urban Properties, Core Companies

- Veteran's building (80 units, 100% affordable)
- 320 housing units (20 affordable units)
- 164-room hotel
- 150k sq ft office
- BART plaza
- Grand Opening April 2023



Balboa: Kapuso at the Upper Yard

Developer: Related California & Mission Housing Development Corporation

- Partnership with City of SF
- 130 affordable housing units
- Family Wellness Community Resource Ctr.
- 6,000 sf child development center
- 2,400 sf non-profit office space
- 3,000 sf retail
- New BART plaza
- Taking applications now for residents:
<https://kapusouy.com>



Image courtesy of Kapuso at the Upper Yard

In Construction:

Fruitvale Phase IIB: Casa Sueños

Developers: Unity Council, Bridge Housing

- 181 housing units, 100% affordable
- 7,500 sq ft affordable commercial retail
- Construction completion anticipated Fall 2023



Image from unitycouncil.org

West Oakland

Developers: JRDV Urban International, Mandela Partners

- Board approved developer 6/2020
- 762 housing units (240 affordable)
- 300k sq ft office, ground floor retail
- \$28m Oakland Housing Authority financing
- Lease option to be executed Spring 2023

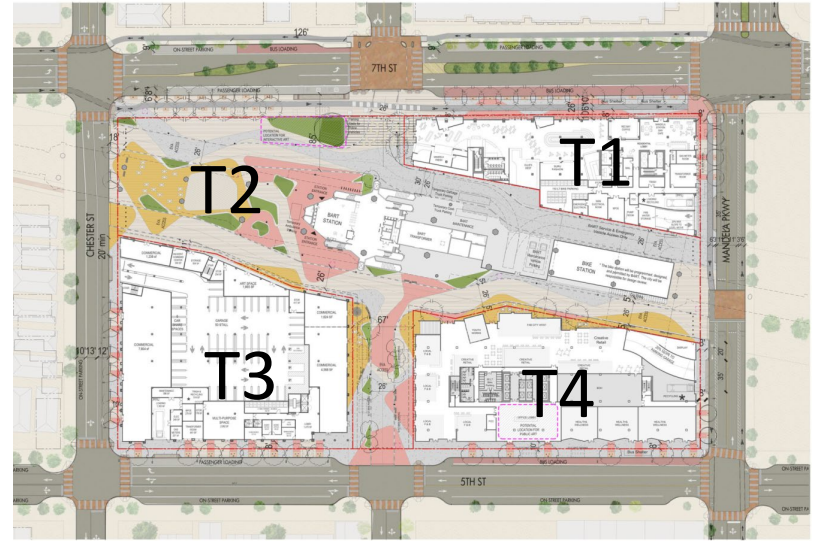


Image courtesy of JRDV Urban International and Mandela Station Partners

Lake Merritt

Developers: Strada, East Bay Asian Local Development Corporation (EBALDC)

- Board approved option for Block 1 9/2021
- Building B fully entitled, construction to commence end of 2023/early 2024 (pending funding)
- Building A finalizing entitlements

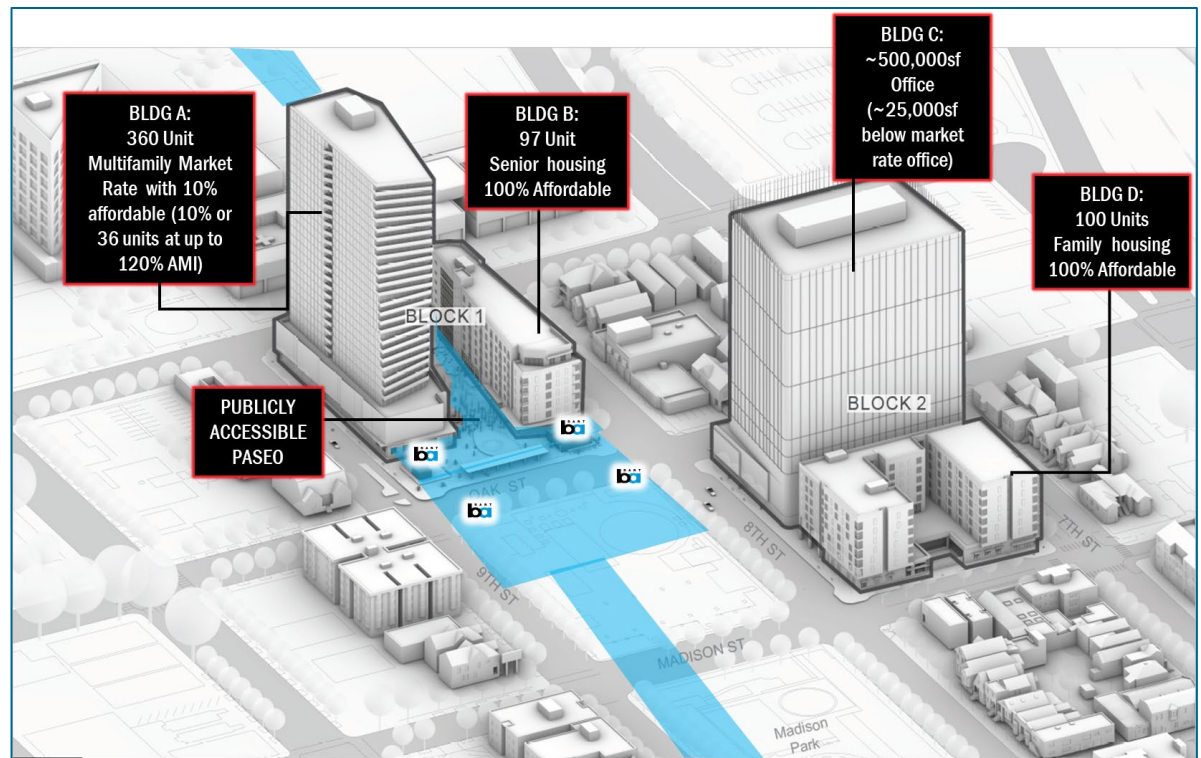


Image courtesy of Strada/EBADLC

El Cerrito Plaza

Developers: Holliday Development, Related California

- Board selected developer 12/2020
- ~700 units
- 50% affordable
- Potential library
- City approved pre-development loan for A1 South
- Board action on term sheet expected early 2024



West Dublin

- 2/2023 Board authorization
- 300 housing units, 100% affordable
- \$4.3m City of Dublin pre-construction loan (2/2023)
- Fully entitled
- BART Plaza



North Berkeley

Developers: North Berkeley Housing Partners (Avalon, Bridge, East Bay Asian Local Development Corporation (EBALDC), Berkeley Food and Housing Project)

- Board selected developer 12/2022
- 650+ units
- 50% affordable
- City affordable housing \$
- Proposed on-site childcare
- City process to develop Objective Design Standards (currently)

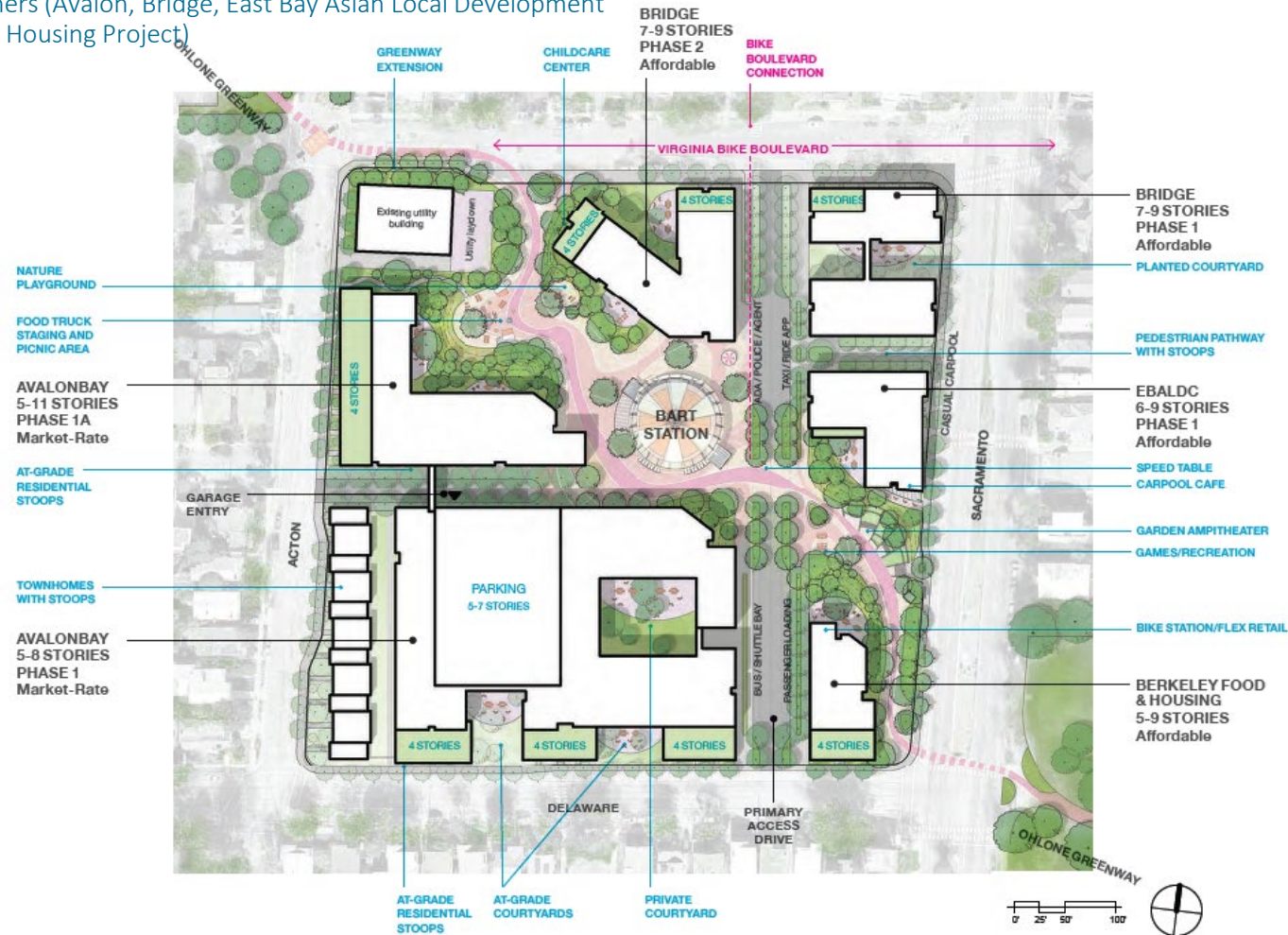


Image courtesy of North Berkeley Housing Partners

Ashby

BART/City Joint Vision & Priorities for TOD

- Reinforce South Berkeley's role as **hub for African American culture and life** in Bay Area
- Provide a **permanent home for Berkeley Community Flea Market** – offering supportive amenities
- **Active frontages** on Adeline St & Ashby Ave
- **At least 35% affordable housing**, with expectation of at least 50% affordable
- Complement Ed Roberts Campus by offering uses **supporting people with disabilities**
- Preference for residents of Berkeley who have faced or are facing **displacement**



Source: visitberkeley.com

- City & BART in negotiations:
 - City air rights option to West Lot
 - Community benefits priorities & contributions
- Permanent home for Berkeley Flea Market
 - Nov 2022 Council action to redesign Adeline St.
- Connect Adeline St and TOD
 - BART community event in late March/early April to discuss operational constraints and possible options



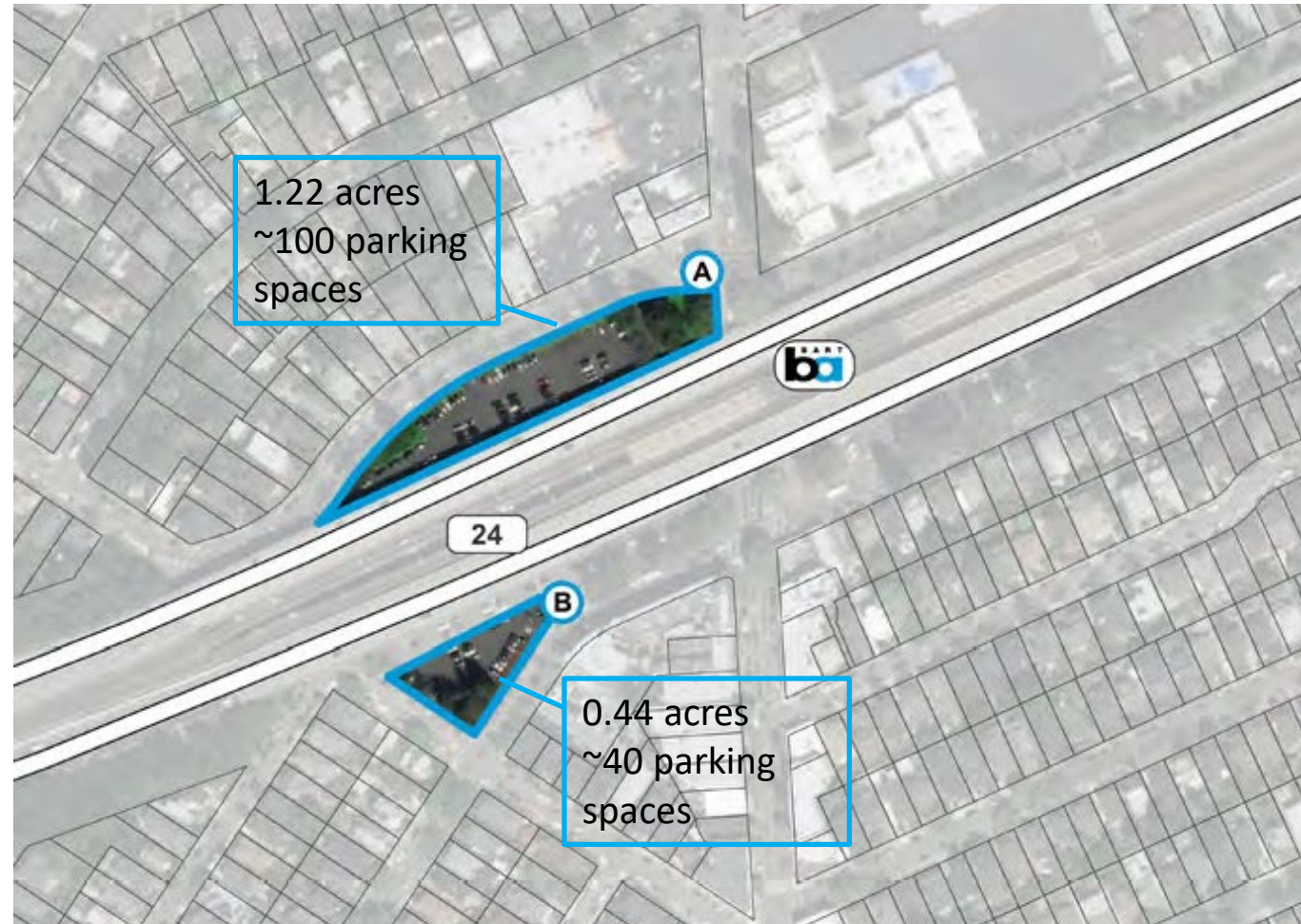
Option 2 – South of Ashby

November 29, 2022



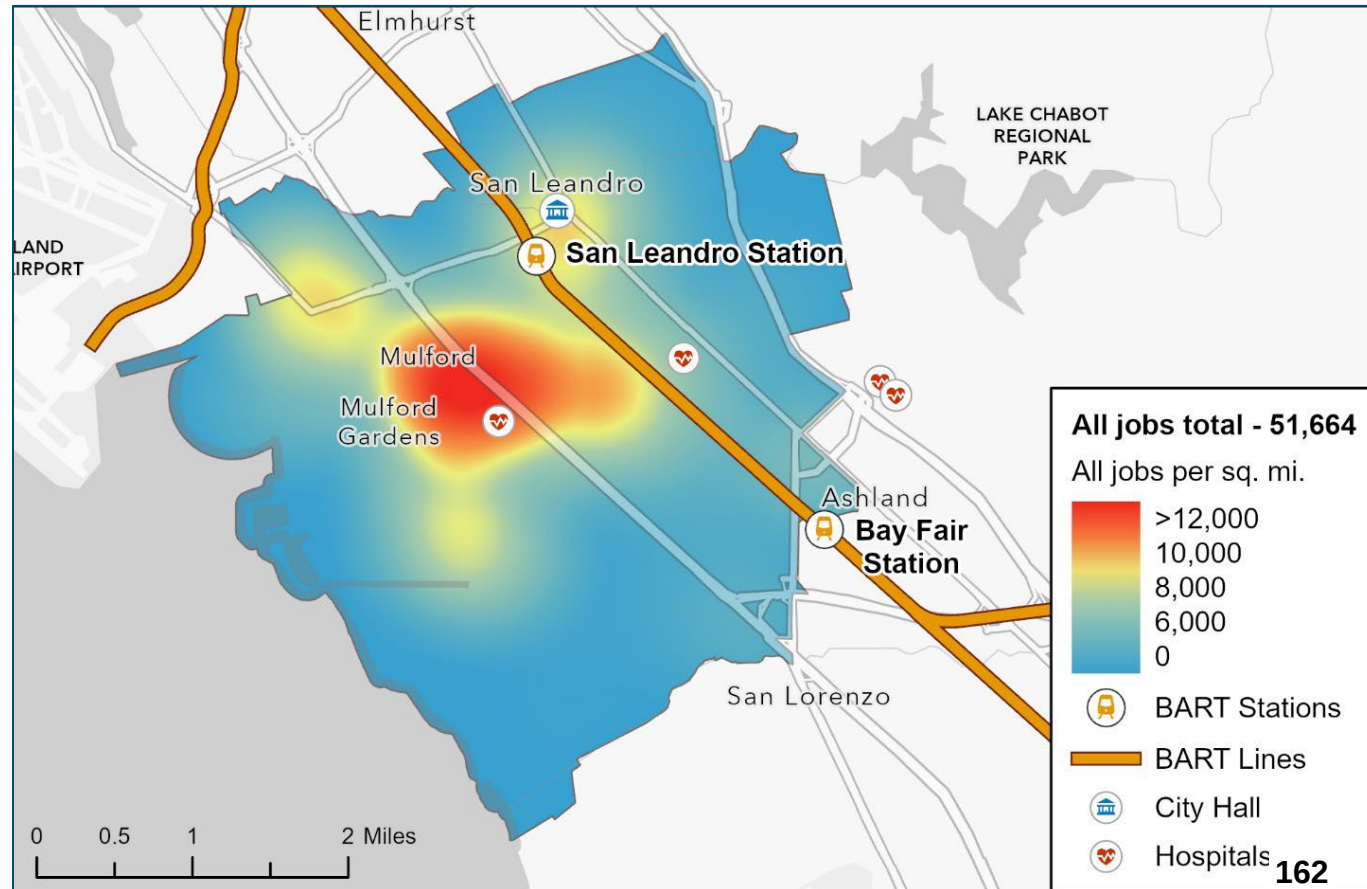
Rockridge

- 1.66 acres
- Acreage not inclusive of Caltrans-owned land
- City of Oakland included BART parcels in Housing Element
- City is rezoning to 175'
- Spring Community Open House



TOD Programmatic Efforts

- Local Housing Element Updates- Engagement
- TOD Workplan Update
- A-Line Jobs Attraction Study
- TOD Asset Management
- Pre-development Funding Strategy
- Regional Housing Measure



Source: ARUP

TOD Industry Challenges & Opportunities

- **Cost to borrow money** now is approaching twice what it cost in 2020
- **High vacancies in office market**
 - 19.5% office vacancy in I-680 corridor
 - 28% office vacancy in Downtown Oakland
 - 22% office vacancy in San Francisco
- **Construction costs** are 30% greater now than 3 years ago; 60% greater now than 10 years ago
- **Community concerns** about high densities persist
- More **public funding programs to support affordable housing**
- Greater recognition of **urgency to address local housing needs**

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

MEMORANDUM

TO: Board of Directors

DATE: March 3, 2023

FROM: General Manager

SUBJECT: For Information: Senate Bill 827 (Glazer) – BART Office of the Inspector General

At the Board of Directors meeting on March 9, 2023, staff will bring forth Senate Bill 827, authored by Senator Steve Glazer (D-Orinda). The bill contains language on the powers, duties, and responsibilities of the Office of the Inspector General. SB 827 will be presented to the Board as an information item.

Staff plan to bring the bill back to the Board for action at the Board of Directors meeting on March 23.

Attached is staff's presentation on the bill. If you have any questions, please contact Rodd Lee, Assistant General Manager, External Affairs, at (510) 464-6235.

DocuSigned by:

Michael Jones

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Robert M. Powers

Attachments

cc: Board Appointed Officers
Deputy General Manager
Executive Staff

Introduced by Senator GlazerFebruary 17, 2023

An act to amend Section 28840 of, and to add Sections 28841.2, 28841.4, and 28841.6 to, the Public Utilities Code, relating to transportation.

LEGISLATIVE COUNSEL'S DIGEST

SB 827, as introduced, Glazer. San Francisco Bay Area Rapid Transit District: Office of the BART Inspector General.

Existing law establishes the San Francisco Bay Area Rapid Transit District (BART), governed by a board of directors, with specified powers and duties relative to the construction and operation of a rapid transit system. Existing law also establishes the independent Office of the BART Inspector General within BART and specifies the duties and responsibilities of the BART Inspector General including, among others, conducting, supervising, and coordinating audits and investigations relating to the district's programs and operations.

This bill would provide that the BART Inspector General is vested with the full authority to exercise all responsibility for maintaining a full scope, independent, and objective audit and investigation program. The bill would provide the office with access and authority to examine all records, files, documents, accounts, reports, correspondence, or other property of the district and external entities that perform work for the district. The bill would provide that all books, papers, records, and correspondence of the office are public records subject to the California Public Records Act, but would prohibit the BART Inspector General from releasing certain types of records to the public, except under certain circumstances. The bill would also make it a crime to engage in specified activities with regard to an audit, evaluation, investigation, or review

conducted pursuant to these provisions, as specified. Because the bill would create a new crime, the bill would impose a state-mandated local program.

Existing constitutional provisions require that a statute that limits the right of access to the meetings of public bodies or the writings of public officials and agencies be adopted with findings demonstrating the interest protected by the limitation and the need for protecting that interest.

This bill would make legislative findings to that effect.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that no reimbursement is required by this act for a specified reason.

Vote: majority. Appropriation: no. Fiscal committee: yes.
State-mandated local program: yes.

The people of the State of California do enact as follows:

- 1 SECTION 1. Section 28840 of the Public Utilities Code is
- 2 amended to read:
- 3 28840. (a) There is hereby created in the district an
- 4 independent Office of the BART Inspector General to ensure that
- 5 the district makes effective use of bridge toll revenue and other
- 6 revenue and operates efficiently, effectively, and in compliance
- 7 with applicable federal and state laws.
- 8 (b) (1) The board shall nominate three persons to the Governor
- 9 who shall appoint one of the three persons nominated by the board
- 10 to serve as the BART Inspector General for an initial four-year
- 11 term. The board shall have the option to renew the term at will.
- 12 The BART Inspector General shall be removed from office by the
- 13 board, subject to approval of the Governor, only if either of the
- 14 following occur:
- 15 (A) A two-thirds majority of the members of the board votes
- 16 for removal.
- 17 (B) The BART Inspector General violates a federal or state law
- 18 or regulation, a local ordinance, or a policy or practice of the
- 19 authority relative to ethical practices, including, but not limited
- 20 to, the acceptance of gifts or contributions.

(2) The reasons for removal of the BART Inspector General shall be stated in writing and shall include the basis for removal. The document stating the reasons for dismissal shall be deemed a public document and posted on the district's Internet Web site: internet website.

~~(c) Within one year of the operative date of this article, the board shall nominate three persons to serve as the first BART Inspector General to be appointed pursuant to subdivision (b).~~

(c) The BART Inspector General is vested with the full authority to exercise all responsibility for maintaining a full scope, independent, and objective audit and investigation program, including, but not limited to, those activities described in subdivision (d) of Section 28841 and Section 28841.2.

SEC. 2. Section 28841.2 is added to the Public Utilities Code, to read:

28841.2. The Office of the BART Inspector General shall have access and authority to examine all records, files, documents, accounts, reports, correspondence, or other property of the district and external entities that perform work for the district. The Office of the BART Inspector General may enter any district office or facility and access, examine, and reproduce during regular business hours all records, files, documents, accounts, reports, vouchers, correspondence files, and all other records for any audit or investigation. Any officer or employee of the district or entity having these records or property in their possession, under their control, or otherwise having access to them, shall permit access to, and examination and reproduction thereof, upon the request of the BART Inspector General or the BART Inspector General's authorized representative.

SEC. 3. Section 28841.4 is added to the Public Utilities Code, to read:

28841.4. (a) The BART Inspector General may gain access to confidential records or property that are obtained in connection with any audit, evaluation, investigation, or review conducted pursuant to Section 28841.2 unless a law specifically refers to and precludes the BART Inspector General from accessing, examining, and reproducing any record or property pursuant to Section 28841.2. Information or documents obtained in connection with any audit, evaluation, investigation, or review conducted by the BART Inspector General are subject to any limitations on release

1 of the information or documents as may apply to an employee or
2 officer of the district or external entity subject to this article that
3 provided the information or documents. Providing confidential
4 information pursuant to this section, including, but not limited to,
5 confidential information that is subject to a privilege, shall not
6 constitute a waiver of that privilege.

7 (b) For purposes of this section, “confidential records or
8 property” means records or property that may lawfully be kept
9 confidential as a result of a statutory or common law privilege or
10 any other law.

11 (c) The Office of the BART Inspector General shall not destroy
12 any papers or memoranda used to support a completed audit sooner
13 than three years after the audit report is released to the public. All
14 books, papers, records, and correspondence of the office pertaining
15 to its work are public records subject to Division 10 (commencing
16 with Section 7920.000) of Title 1 of the Government Code and
17 shall be filed at any of the regularly maintained offices of the
18 BART Inspector General, except that none of the following items
19 or papers of which these items are a part shall be released to the
20 public by the BART Inspector General or the employees of the
21 BART Inspector General:

22 (1) Personal papers and correspondence of any person providing
23 assistance to the BART Inspector General when that person has
24 requested in writing that their papers and correspondence be kept
25 private and confidential. Those papers and correspondence shall
26 become public records if the written request is withdrawn, or upon
27 the order of the BART Inspector General.

28 (2) Papers, correspondence, memoranda, or any substantive
29 information pertaining to any audit not completed.

30 (3) Papers, correspondence, or memoranda pertaining to any
31 audit that has been completed, which papers, correspondence, or
32 memoranda are not used in support of any report resulting from
33 the audit.

34 (4) Any survey of public employees that the BART Inspector
35 General determines should be kept confidential to deter retaliation
36 if the public employees respond to the survey.

37 (5) Any record of an investigation, including, but not limited
38 to, all investigative files and work product, except that the BART
39 Inspector General, whenever the BART Inspector General
40 determines it necessary to serve the interests of the state, may issue

a public report of an investigation that has substantiated an improper governmental activity, as defined in Section 8547.2 of the Government Code, keeping confidential the identity of the employee or employees involved. The BART Inspector General may also release any findings or evidence supporting any findings resulting from an investigation conducted pursuant to this article whenever the BART Inspector General determines it necessary to serve the interests of the state.

SEC. 4. Section 28841.6 is added to the Public Utilities Code, to read:

28841.6. It is a misdemeanor, punishable by imprisonment in a county jail not exceeding six months, or by a fine not exceeding one thousand dollars (\$1,000), or by both that imprisonment and fine, to do any of the following:

(a) Fail or refuse to permit the examination of, access to, or reproduction of the records, files, documents, accounts, reports, correspondence, cash drawers, or cash of their office by the BART Inspector General or in any way interfere with such examination conducted pursuant to this article.

(b) Interfere, intend to deceive or defraud, or obstruct the BART Inspector General in the performance of an audit, evaluation, investigation, or review pursuant to this article.

(c) Manipulate, correct, alter, or change records, documents, accounts, reports, or correspondence before or during any audit, evaluation, investigation, or review conducted pursuant to this article.

(d) Distribute, reproduce, release, or fail to safeguard confidential draft documents exchanged between the BART Inspector General and the entity subject to the audit, evaluation, investigation, or review conducted pursuant to this article before the release of the final report and without the BART Inspector General's express permission.

SEC. 5. The Legislature finds and declares that Section 3 of this act, which adds Section 28841.4 to the Public Utilities Code, imposes a limitation on the public's right of access to the meetings of public bodies or the writings of public officials and agencies within the meaning of Section 3 of Article I of the California Constitution. Pursuant to that constitutional provision, the Legislature makes the following findings to demonstrate the interest protected by this limitation and the need for protecting that interest:

1 The need for the Office of the BART Inspector General to fully
2 examine and evaluate records, files, documents, accounts, reports,
3 correspondence, and all other property of the San Francisco Bay
4 Area Rapid Transit District and external entities that perform work
5 for the district outweighs the interest in public disclosure of
6 information obtained by the Office of the BART Inspector General
7 in connection with its activities.

8 SEC. 6. No reimbursement is required by this act pursuant to
9 Section 6 of Article XIII B of the California Constitution because
10 the only costs that may be incurred by a local agency or school
11 district will be incurred because this act creates a new crime or
12 infraction, eliminates a crime or infraction, or changes the penalty
13 for a crime or infraction, within the meaning of Section 17556 of
14 the Government Code, or changes the definition of a crime within
15 the meaning of Section 6 of Article XIII B of the California
16 Constitution.

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SB 827 (Glazer) BART Office of the Inspector General

SB 827 Background and Key Legislative Dates

Feb. 17	Bill introduced
Feb. 20	Memo and bill summary provided to Board
March 1	Bill referred to Senate Transportation and Judiciary Committees; hearing dates not yet set
March 9	Bill presented to Board as Informational Item
March 20	Bill may be acted upon/amended
April 28	Policy committee deadline for fiscal bills
May 19	Fiscal committee deadline to report bills to the Floor
June 2	House of Origin Deadline
July 14	Policy committee deadline in second house
Sept. 1	Fiscal committee deadline in second house
Sept. 8	Last day to amend on the Floor
Sept. 14	Last day for each house to pass bills
Oct. 14	Last day for Governor to sign or veto bills

Upcoming Policy Committee Hearings

Senate Transportation Committee

2nd and 4th Tuesdays at 1:30PM
March 28, April 11, April 25

Senate Judiciary Committee

Every Tuesday at 1:30PM

Bill Summary

Authority of the BART Inspector General (IG)

- The District Act is amended to clarify the BART IG is vested with the full authority to exercise all responsibility for maintaining a full scope, independent, and objective audit and investigation program.

IG Access to District and Third-Party Documents and Other Property

- The IG shall have access and authority to examine all records, files, documents, accounts, reports, correspondence, or other property of the District and any third-party entities that perform work for the District.
- The IG shall have the authority to enter any District office or facility and access, examine, and reproduce, during regular business hours, any materials needed for an audit or investigation.
- Any officer or employee of the District or third-party entity in possession of or with access to documents shall permit access to and examination of them upon request of the IG or their designee.

Bill Summary

Handling of Documents and Other Property

- The IG may gain access to confidential records or property that are obtained in connection with any audit, evaluation, investigation, or review unless a law specifically refers to and precludes the IG from accessing, examining, and reproducing.
- Information or documents obtained in connection with any audit, evaluation, investigation, or review conducted by the IG are subject to any limitations on release of the information or documents as may apply to an employee or officer of the District or external entity. Providing confidential information that is subject to a privilege shall not be construed as waiving that privilege.
- The IG shall not destroy any materials used to support a completed audit sooner than three years after the audit report is made public.
- All Books, papers, records, and correspondence of the OIG pertaining to its work are public records and shall be filed at any of the regularly maintained offices of the IG, except for specified instances.

Bill Summary

Misdemeanor Charges for Obstructing the Work of IG

New language makes it a misdemeanor, punishable by imprisonment in a county jail not exceeding six months, or a fine not exceeding \$1,000, or both, to do any of the following:

- Fail or refuse to permit the examination of, access to, or reproduction of any information requested by the IG or in any way interfere with an examination.
- Interfere, intend to deceive or defraud, or obstruct the IG in the performance of an audit, evaluation, investigation, or review.
- Manipulate, correct, alter, or change records, documents, accounts, reports, or correspondence before or during any audit, evaluation, investigation, or review.
- Distribute, reproduce, release, or fail to safeguard confidential draft documents exchanged between the IG and the entity subject to the audit, evaluation, investigation, or review before the release of a final report and without the IG's express permission.

Comparison of Statutory Authority and Responsibilities

	Current BART IG	SB 827	Caltrans IG	State Auditor	LA Metro IG
Explicit access to records and property	No	Yes	Yes	Yes	Yes
Explicit access to confidential records unless a law specifically precludes	No	Yes	Yes	Yes	Yes
Explicit access to employees, officers, or contractors	No	Not Clear	Not Clear	Not Clear	Yes
Sanctions for obstructing work of IG	No	Misdemeanor: Imprisonment and/or fine	Misdemeanor: Imprisonment and/or fine	Fine not to exceed \$5,000	Penalties for disobeying subpoena

Next Steps

- Continue internal review and discussions with the IG, key stakeholders, and labor partners.
- Identify any areas of concerns and potential amendments.
- Prepare bill analysis and staff recommendation for future Board action.
- Schedule meeting with Senator Glazer to discuss District's position.
- Prepare correspondence and testimony for first policy committee hearing in late March or early April.