

# Monthly Performance Report – October 2022

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RAIL SAFETY DIVISION

November 29, 2022



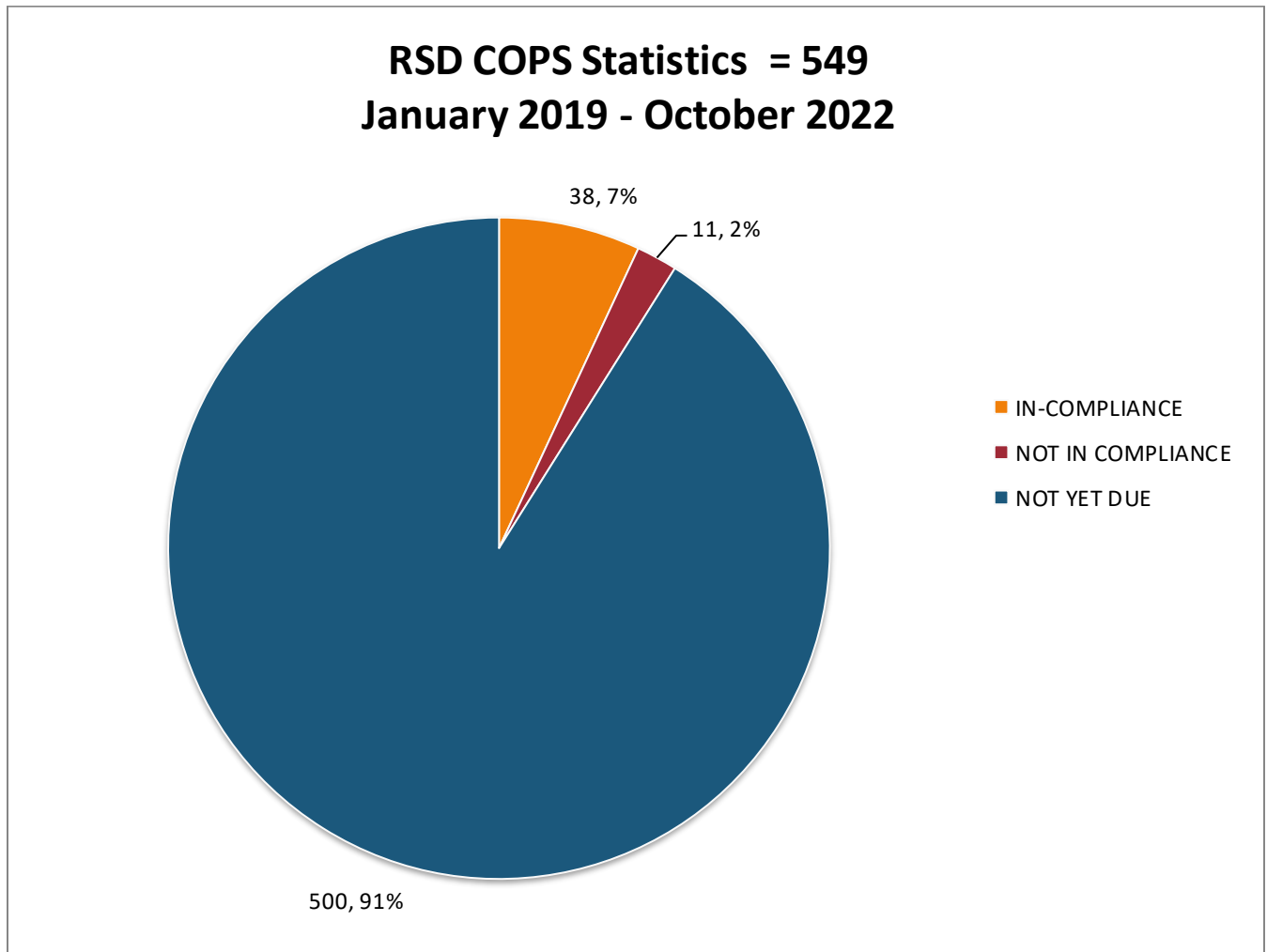
**California Public  
Utilities Commission**

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## Compliance with Ordering Paragraphs (COPS)

Through October 31, 2022, the Rail Safety Division (RSD) showed 549 total entries in the COPS system, with 38 (7%) reaching compliance, 500 (91%) not yet due for compliance, and 11 (2%) out of compliance. 549 (100%) of all ordering paragraphs (OPs) are assigned to RSD staff.



## Monitoring the Whistleblower Website

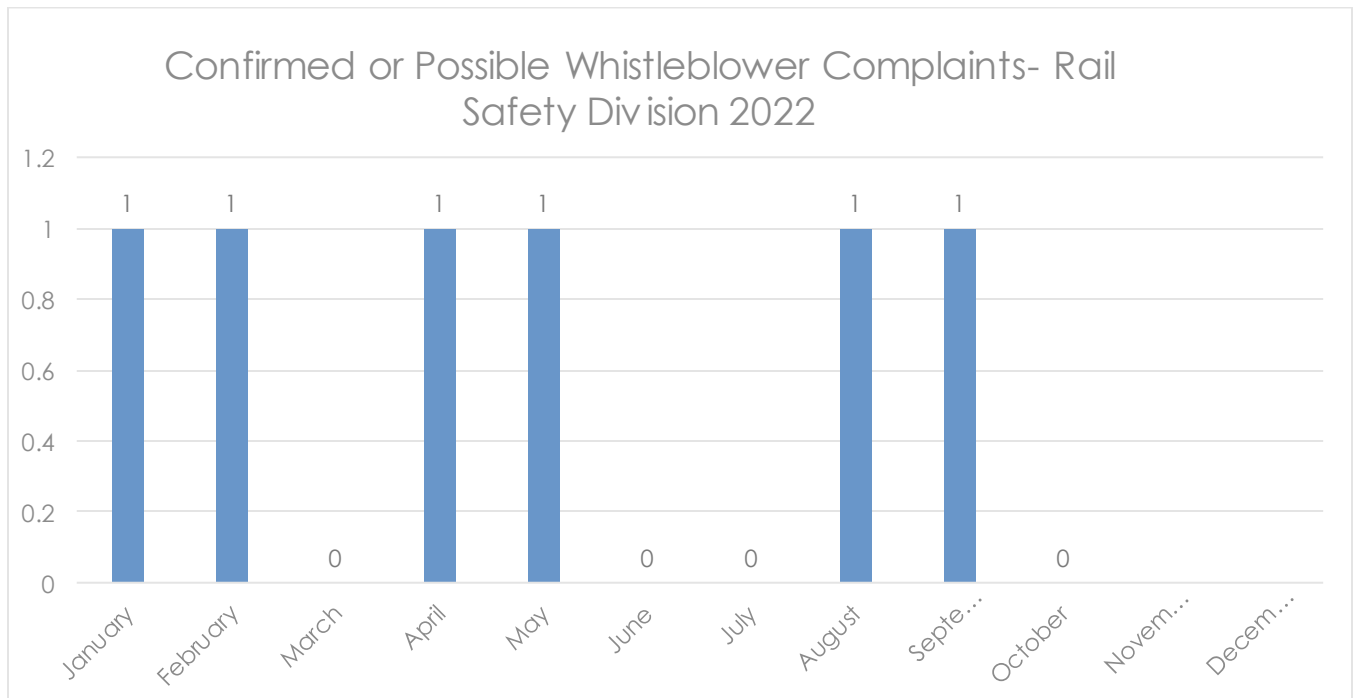
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The Risk Section has been overseeing intake for complaints that arrive via a “whistleblower” application on the Commission’s web site. Whistleblower protections are afforded to utility employees and contractors who report potentially unsafe or illegal practices.

### Statistics – 1/1/2022 – 10/31/2022

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Note: This is for complaints filed using the on-line Whistleblower Application ONLY.



## Railroad Operations and Safety Branch - ROSB

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In October 2022, the RSD Railroad Operations and Safety Branch (ROSB) completed the following:

<b>Railroad Operations and Safety Branch</b>	<b>Oct-22</b>	<b>YTD 2022</b>
<b>New Incidents Investigated</b>	8	72
<b>Informal Complaints Investigated</b>	1	16
<b>Railroad Bridge Observations</b>	22	133
<b>Non-compliant conditions identified/corrected</b>	1000	7296
<b>Operation Lifesaver Presentations</b>	2	73

### ROSB Inspection, Investigation & Field Activities

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**October 5, 2022:** RSD Railroad Safety Inspectors, along with a Sonoma Marin Area Regional Transit (SMART) manager, performed an inspection of the SMART corridor tracks between Santa Rosa and Larkspur to check for compliance with CPUC General Orders (GOs).

The team identified a power operated switch without a walkway for access not complying with GO 118-A. GO 118-A states, *“Walkways shall provide a reasonable regular surface with gradual slope not to exceed approximately one inch to eight inches.”* For power operated switches, there is a requirement to provide an area behind the switch mechanism for an employee to safely operate the switch machine, if necessary. SMART management corrected all the defects within two weeks as was verified by a follow up inspection.

**October 18, 2022:** An RSD Railroad Safety Inspector performed an inspection at the BNSF Hobart intermodal rail terminal in Commerce to verify compliance of railroad freight equipment pursuant to Title 49 Code of Federal Regulations (CFR).

Upon inspection of freight equipment several non-compliant conditions were identified including:

- A thin flange wheel which is a derailment causing defect.
- A broken handhold that has the potential to cause personal injury to railroad employees that use the safety appliance in the performance of their job duties.
- Excessive piston travel beyond the allowed limits, excessive piston travel causes the brake cylinder to reach its maximum effective limits and therefore may not apply sufficient braking forces to the wheel and rendering the brakes ineffective.

- Missing cross key retainer cotter, this defect is a derailment causing defect as the coupler can separate from the car and derail the freight cars during transportation.

The inspector immediately notified BNSF management of the non-compliant conditions. BNSF corrected the defective conditions before the train departed. The RSD inspector completed a federal inspection report and issued a copy of the report with his findings to the BNSF and the FRA with six non-compliant conditions and three recommended for civil penalties.

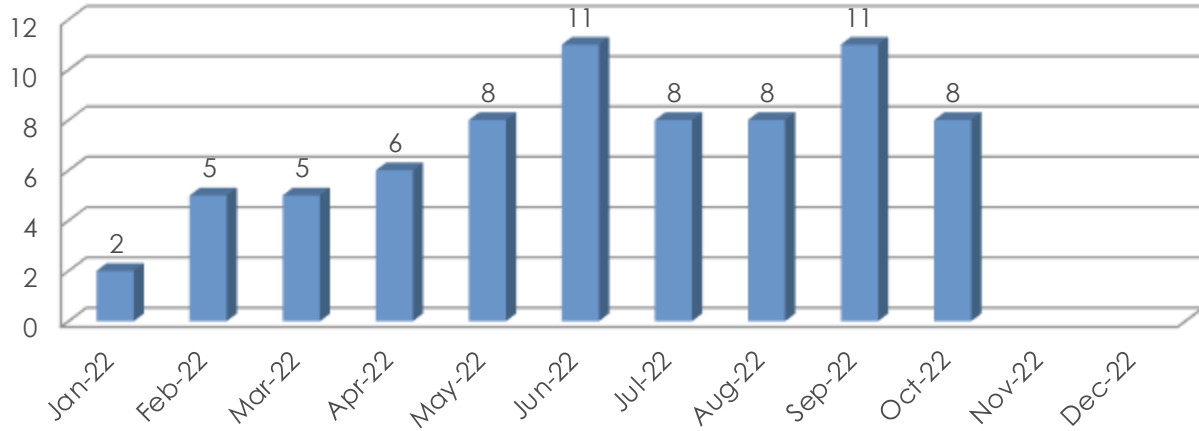
**October 19, 2022:** RSD Railroad Safety Inspectors performed a focused inspection on the Union Pacific (UP) Valley subdivision from Wheatland to Roseville to focus on Roadway Worker Protection (RWP). The Federal Railroad Administration’s (FRA) RWP regulations are in place to protect railroad workers and contractors while performing work on or near railroad tracks and structures.

The inspectors observed men and equipment working on the main track near the First Street grade crossing in Sheridan. The inspectors immediately stopped and approached the work group at the crossing and discovered they were working without protection. An RSD Track Inspector instructed the work group to immediately clear the tracks and remain clear until the UP was able to provide flag protection against trains. While the equipment was clearing, the track inspector contacted the UP Manager of Track Maintenance (MTM) responsible for the area, explaining the situation at the First Street crossing, and requested that the UP provide an employee to provide protection for the work group.

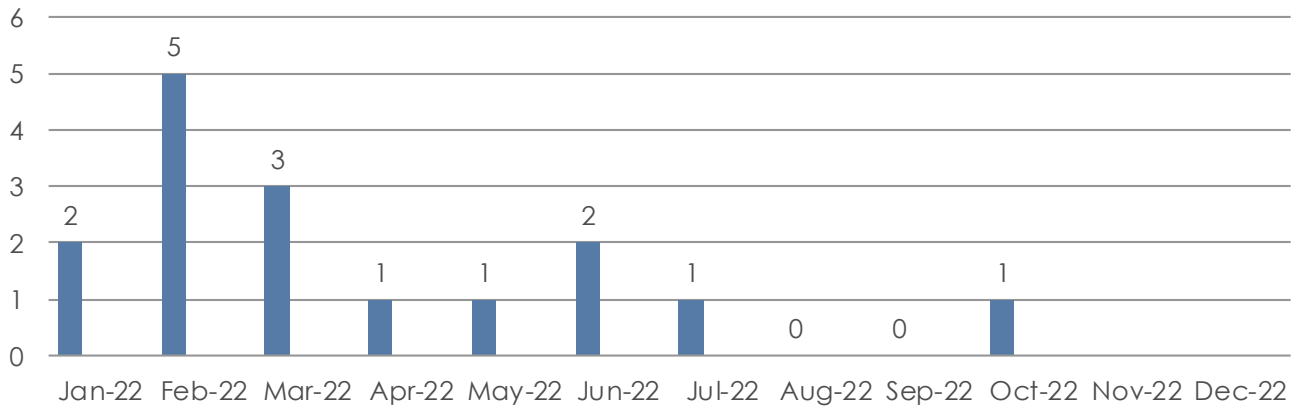
The inspectors held a job briefing with the contractors. In the briefing, the inspectors explained that the UP was sending a flagman to assist them, and for them to stay clear of the track until the arrival of the flagman and be governed by his instructions. They also discussed the potential for an accident caused by equipment fouling the track without any protection against train traffic.

The inspectors met with the UP superintendent in Roseville and explained what occurred in Lincoln, providing him with the contractor’s contact information. The superintendent assured the inspectors that he would take immediate action to correct the situation. The inspectors then returned to Lincoln and found that the UP flagman had arrived at that location and was assisting the contractors with obtaining the required authority and protection to continue their work in compliance with RWP regulations.

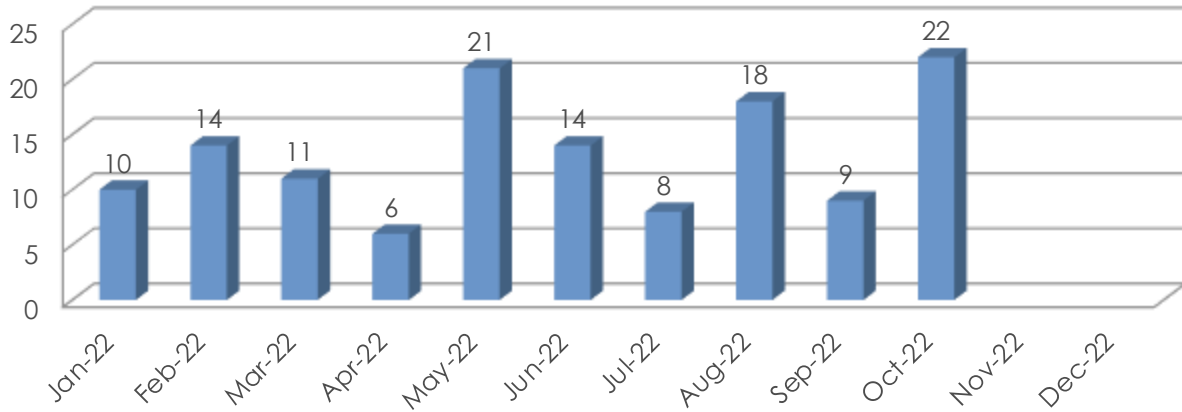
### Incidents Assigned for Investigation YTD = 72



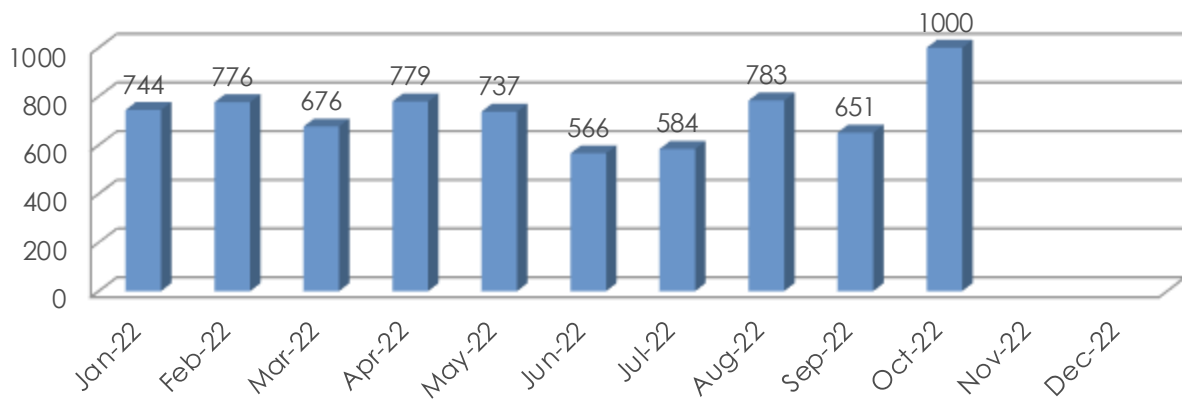
### Informal Complaints YTD = 16



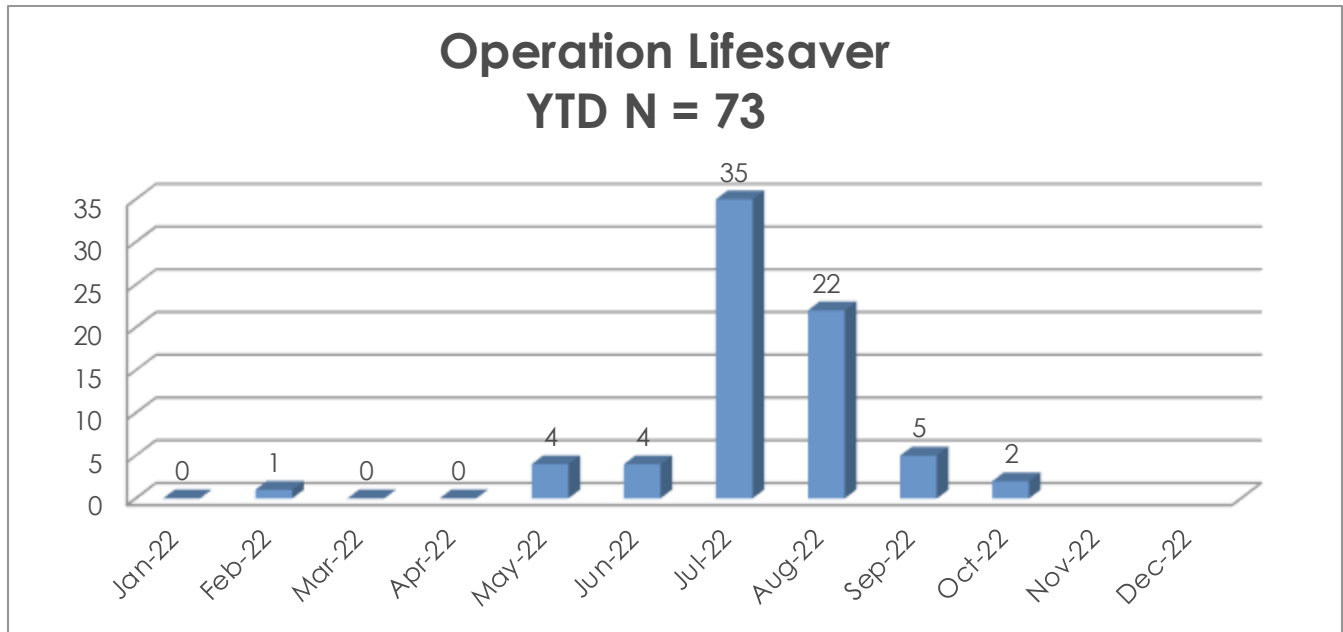
### Railroad Bridge Observations YTD = 133



### Non-Compliant Conditions Identified/Corrected YTD = 7296







## Crude Oil Reconnaissance Team (CORT) Monthly Report

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### CORT Summary

The CORT<sup>1</sup> was formed in 2014 in response to highly volatile crude oil transportation in North America. The CORT’s purpose is to monitor crude oil transported by rail into California. This report tracks CORT activities, crude oil unit trains<sup>1</sup> entering California each month and the type of crude oil being transported.

The CORT’s role was expanded in 2018 to include tracking ethanol unit trains entering the state and documenting the location of stored hazardous material tank cars.

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<sup>1</sup> A unit train is a freight train composed of cars carrying a single type of commodity that are all bound for the same destination.

<b>Crude Oil Shipments in California</b>							
<b>Consignee<sup>2</sup></b>	<b>Highly Volatile (Y/N)</b>	<b># UnitTrains Received September</b>	<b># UnitTrains Projected October</b>	<b># Unit Trains FYTD (22-23)</b>	<b># Cars Received September</b>	<b># Cars Projected October</b>	<b># Cars FYTD (22-23)</b>
Plains All America	N	0	0	0	0	0	0
Kern Oil	N	1	1	4	90	100	374
<b>Ethanol Unit Train Shipments in California</b>							
<b>Consignee</b>		<b># UnitTrains Received September</b>	<b># UnitTrains Projected October</b>	<b># UnitTrains FYTD (22-23)</b>	<b># Cars Received September</b>	<b># Cars Projected October</b>	<b># Cars FYTD (22-23)</b>
Kinder Morgan (Wilmington)		15	17	63	1438	1700	6045
Eco-Energy (Stockton)		4	2	8	404	200	771
Pelican Renewables (Stockton)		2	1	9	207	103	922
<b>Storage of Hazardous Material Cars</b>							
<b>Railroad</b>		<b>Loads</b>	<b>Empties</b>	<b>Commodity</b>	<b>County</b>		
Arizona California RR		67	129	LPG	San Bernardino		
Santa Maria RR		3	162	LPG	Santa Barbara		
Sierra Northern Railway		261	165	LPG	Stanislaus		
Oakland Global Rail Enterprise		9	76	LPG	Alameda		
Yreka Western RR		0	0	N/A	Siskiyou		

<sup>2</sup> See Appendix A for descriptions of Consignees and Railroads.

## Appendix A

### **Crude Oil Consignees**

**Delta Trading** in Bakersfield has oil cars delivered by manifest train. Delta is still seeking a new customer.

**Kern Oil** in Bakersfield has unit trains delivered by the San Joaquin Valley Railroad (SJVR).

**Plains All America** in Taft has unit trains delivered by the SJVR.

### **Ethanol Unit Train Consignees**

**Kinder Morgan** is a pipeline and off-loading facility located in Wilmington, that receives 64 or 96 car unit trains delivered by the BNSF.

**Eco-Energy** is an energy provider in Stockton, that receives 100 to 112 car ethanol unit trains delivered by the Central California Traction Company.

**Pelican Renewables** is an energy provider in Stockton, that receives 96 to 108 car ethanol unit trains delivered by the Central California Traction Company.

### **Hazardous Material Car Storage Locations**

**Arizona-California Railroad** is a short line railroad that operates over 91 miles between Cadiz and Parker, Arizona. A spur track located in Rice, owned by the railroad but leased by PBF Energy for the storage of tank cars. Cars are Interchanged at Cadiz with BNSF.

**Santa Maria Railroad** is a short line railroad that operates over 14 miles of track and interchanges with the UPRR in Guadalupe.

**Sierra Northern Railway** is a short line railroad that operates over 100 miles of track in Mendocino, Tuolumne, Stanislaus, and Yolo counties. Sierra Northern provides rail shipping to all of California through interchanges with the BNSF and UPRR.

**Oakland Global Rail Enterprise** is a short line railroad that operates over 10 miles of industrial track in Oakland and interchanges with the UPRR.

**Yreka Western Railroad** is a short line railroad that operates 9 miles of track in Siskiyou County and interchanges with the UPRR and Central Oregon and Pacific Railroad (CORP) in Montague.

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**Oakland Global Rail Enterprise** is a short line railroad that operates over 10 miles of industrial track in Oakland and interchanges with the UPRR.

**Yreka Western Railroad** is a short line railroad that operates 9 miles of track in Siskiyou County and interchanges with the UPRR and Central Oregon and Pacific Railroad (CORP) in Montague.

## Rail Crossings and Engineering Branch - RCEB

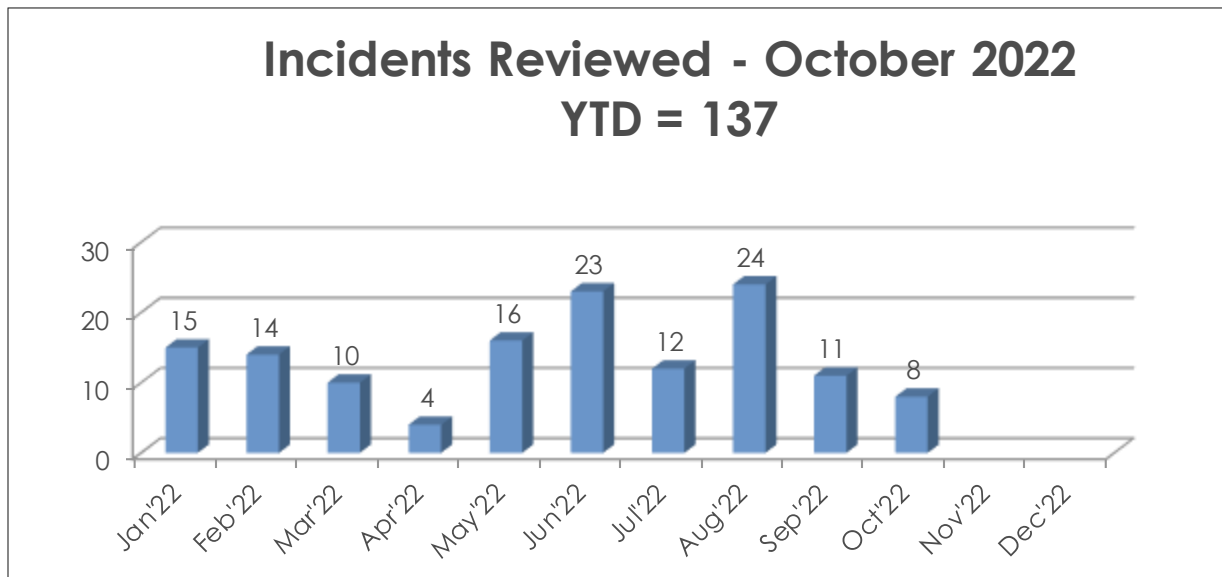
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In October 2022, the Rail Crossings and Engineering Branch (RCEB) completed the following:

	<b>October Closed</b>	<b>Closed YTD</b>
<b>Crossing Incident Reviews</b>	8	137
<b>Safety Assessments/Quiet Zones/Reviews/Training/Operation LifeSaver Presentations</b>	36	495
<b>Proceedings, Resolutions and G.O. 88-B Reviews</b>	6	90

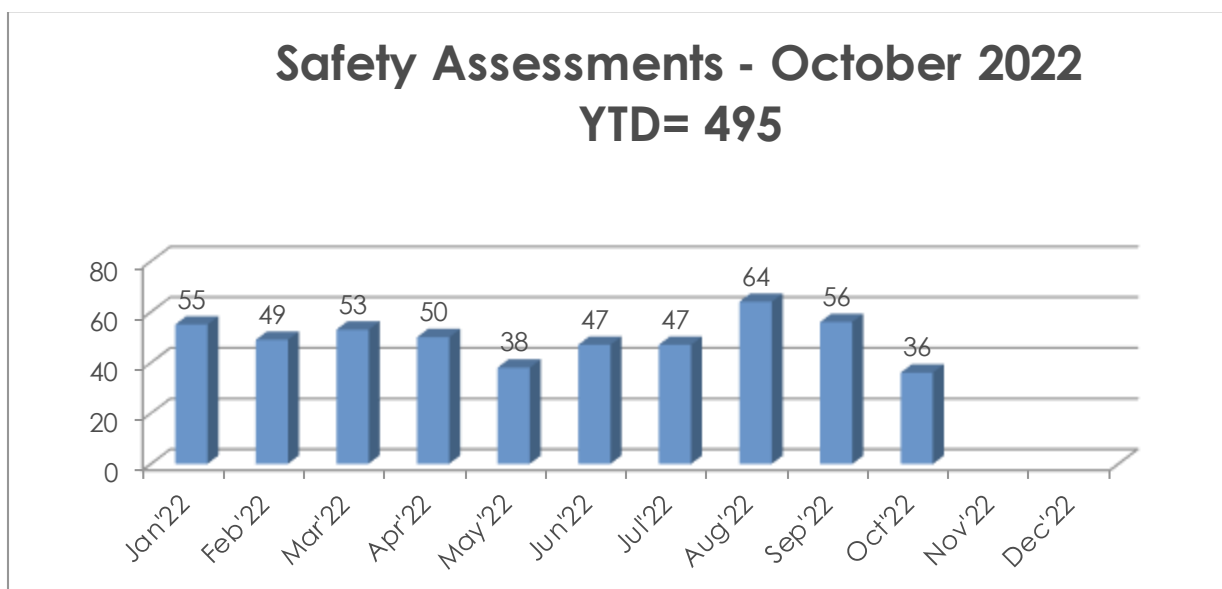
### Rail Crossing Incident Investigations

In October 2022, RCEB closed eight incidents at highway-rail at-grade crossings (crossings). These eight incidents resulted in one injury and four fatalities.



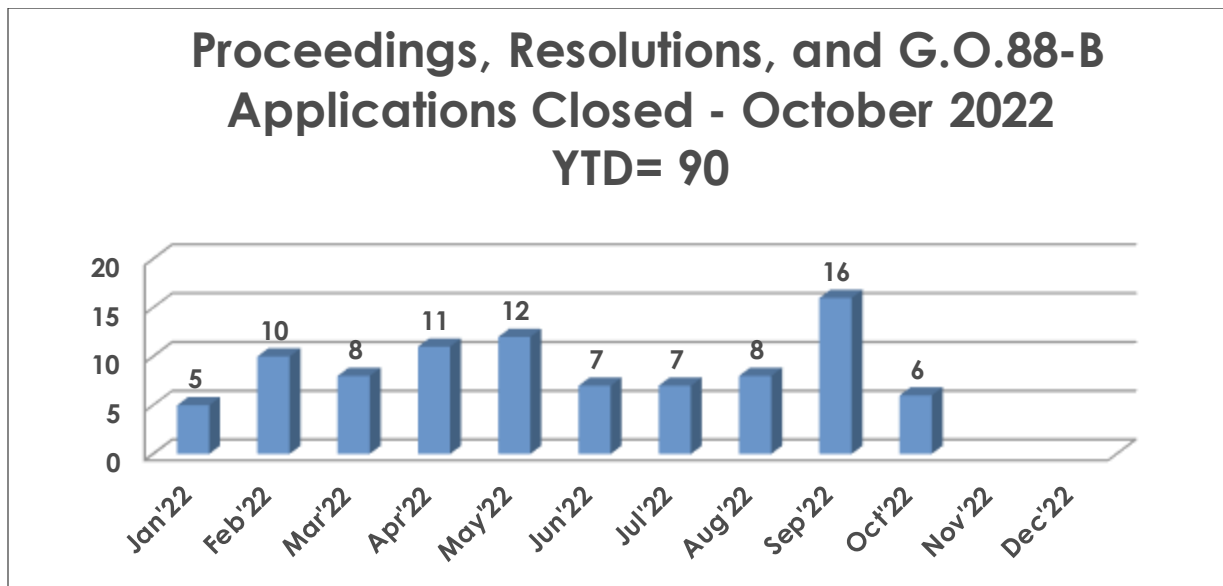
**Safety Assessments, Quiet ZONES, and Reviews**

In October 2022, RCEB completed 36 rail-crossing safety assessments involving: communications, field inspections, meetings, quiet zone reviews, staff training, diagnostic reviews, and Operation LifeSaver presentations. These activities review existing crossings and proposed changes to crossing warning devices.



Proceedings, Resolutions and G.O. 88B Reviews

In October 2022, RCEB approved six General Order 88-B requests for authority for alteration to existing crossings.



Rail Transit Safety Branch - RTSB

In October 2022, the Rail Transit Safety Branch (RTSB) completed the following:

Major Audits

RTSB Staff continues field work, checklist data collection, and other follow-up for the Bay Area Rapid Transit (BART) Triennial Safety and Security Review which started in late November of 2021 .

RTSB Staff conducted the Santa Clara Valley Transportation Authority (SCVTA) Triennial Safety and Security Review in April 2022.

On June 6 - 17 RTSB Staff conducted the North [San Diego] County Transit District (NCTD) Triennial Safety and Security Review.

## Administrative Accomplishments

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On October 25-27, Daren Gilbert, Steve Artus, Ainsley Kung, Rosa Muñoz, and Varoujan Jinbachian participated in the Federal Transit Administration’s (FTA) “Joint State Safety Oversight Agency and Rail Transit Agency Training Workshop.”

### RCEB-RTSB Coordination Meeting:

On October 20, RTSB and RCEB staff met to review and coordinate action on transit crossing accidents

### Training:

RTSB staff completed the following training in the month of October:

- Sally Nguyen and Ariana Merlino completed the “Transit Rail Incident Investigation” course offered by the U.S. Department of Transportation’s Transportation Safety Institute (TSI).
- Nicholas Denny completed the "Forty-Hour POST Certified PC 832 Arrest Course", which meets the requirements of the introductory training course prescribed by the Commission on Peace Officer Standards and Training (POST), as described in California Penal Code (PC) Section 832(a).
- Several staff members completed the required “Harassment Prevention with Diversity and Bias Awareness for Staff” training provided by CPUC’s Equal Employment Opportunity Office.

### RSSIMS Replacement Project:

The three rail branches (RCEB, ROSB, and RTSB) share a database called the Rail Safety and Security Information Management System (RSSIMS). RTSB is participating in activities to identify upgrades for the next version of the database.

## General Order and Resolution Activity

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### Proposed Revision to GO 143-B:

RTSB management is continuing its work on drafting proposed changes to General Order 143-B “Safety Rules and Regulations Governing Light-Rail Transit.”

## RTA Ongoing Projects

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### SAFETY CERTIFICATION AND OVERSIGHT OF RAIL TRANSIT AGENCY PROJECTS

## Bay Area Rapid Transit – BART

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### Communications Based Train Control (CBTC):

BART entered a \$798 million contract with Hitachi Rail STS USA, Inc to design and build a modern CBTC system. The agency intends for this project to “greatly improve (its) train service.” The Project’s Safety Certification Plan (SCP) was approved by the Commission via Resolution ST-206. Contractor Hitachi executed Notice to Proceed in November 2020. SSRC quarterly meetings started in June 2022.

Project completed preliminary design for Phase 1 – ATS upgrade at OCC; Final Design Review has begun.

### BART Hayward Maintenance Complex (HMC) Project:

This project is comprised of two phases. On November 16, 2018, RTSB management approved an element of the first phase of this project, the Component Repair Shop, to commence operations. The Central Warehouse, also an element of Phase I, submitted SCVR on January 7, 2021, and RTSB management approved on January 29, 2021. Construction on the Hayward Maintenance Complex Phase II East Storage Yard began on March 1, 2019. This yard will provide a storage venue for BART revenue vehicles and provide egress to the BART A1 and A2 Mainline Tracks and the Hayward Test Track. Due to funding constraints, BART has sub-divided the HMC Phase II Project into three separate contracts, Civil Grading, Trackwork Procurement, and East Vehicle Storage Yard. At the end of the Hayward Maintenance Complex Project, BART will submit a final SSCVR that will cover both phases. HMC Phase I project scope has been scaled down and is considered by BART to be effectively complete due to budgetary constraints. BART submitted their revised SCP Rev. E detailing and amending changes to the project, which was approved by RTSB on April 13, 2022. BART has submitted their SSCVR for this phase on July 8th, 2022, has been reviewed by Staff, and Staff has performed site verifications and inspections. Staff found site deficiencies, which BART has addressed. The approval letter for Phase I was sent to BART on October 6th, 2022. HMC Phase II has the East Vehicle Storage Yard re-design at 90% completion and is undergoing BART and 3rd Party review. HMC Phase II anticipates having 100% design by January 2023.

### Traction Power System Improvements Project (TPSIP):

Five sites have been identified for installation of new traction power substations to support the traction power system improvements portion of the Transbay Core Capacity Program. The two West Bay sites are



Civic Center Station and Montgomery Street Station and have estimated completion dates by 2022. The three East Bay sites are in Oakland at Thirty Fourth Street, Concord at David Avenue and Minert Road and Richmond at Yard East, with completion dates not yet estimated. An SCP was approved via Commission Resolution (ST-239) on July 16, 2020. Civic Center and Montgomery Street stations are under construction. Project completed design conformance in August 2022. Project is reviewing construction issue-for-bid contract for East Bay sites.

No Updates.

#### Irvington Station (IRV) Project:

The Irvington Station Project includes construction of a new station halfway between the existing Fremont and Warm Springs/South Fremont stations. The estimated completion year is 2027. The Project is in the engineering design phase. The SCP was approved under Commission Resolution (ST-240) on November 5, 2020. Project is approaching 90% design completion. SCP revision 1 was approved in May 2022. The UPRR crossing application was approved in July by the Rail Crossing Branch.

No Updates.

#### New Vehicle Procurement (NVP):

BART is in the process of procuring 1,200 new rail vehicles. There are two types of new vehicles, D-Cars and E-Cars. D-Cars have an operator's cab while E-Cars do not. Upon submittal by BART, Staff reviews testing and certification documents for each group of cars prepared for service and verifies compliance with the testing and certification plan before authorizing the cars for revenue service. Due to continuing intermittent communications loss with wayside equipment and resulting system reboot, BART ceased accepting new vehicles in January 2021 until the vendor, Alstom, resolved that issue in February 2022.

A total of 402 new cars were approved as of September 2022.

## Los Angeles County Metropolitan Transportation Authority – LACMTA

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#### P3010 New Vehicle Procurement Project:

All 235 new P3010 Light Rail Vehicles (LRV) have been delivered to LACMTA from Kinkisharyo International, the vehicle manufacturer. These vehicles are intended to expand passenger capacity for the recently completed projects (Expo Phase 2 and Foothill Extension Phase 2) and the future Crenshaw/LAX line currently under construction. The P3010s have state of the art technology and upgrades to improve the passenger experience. As cars are prepared for service, Staff will recommend official approval to RTSB

management after in person review of the Car History Books (testing documentation). Overall, 40 LRVs remain to be accepted by LACMTA and approved by RTSB management. To date, RTSB management has certified for revenue service 206 vehicles. In November 2021, LACMTA started to send conditional approval documentation to RTSB for vehicles with a new communication system that addressed previously identified issues. The cars that were accepted prior will have to be retrofitted to be compatible with the new communication system.

In October 2022, CPUC Staff conditionally approved 8 vehicles. A Car History Book Review is planned for November 14, 2022 and November 18, 2022.

#### HR4000 Heavy Rail Vehicle Procurement:

LACMTA is in the process of procuring a base order of 64, with options for up to 282 new heavy rail vehicles (HRV) to provide for the future expansions of Regional Connector and D (formerly Purple) Line Extensions, and to replace the aging HRV fleet operating on the B (formerly Red) Line subway. Resolution ST-185 approved the procurement option. The vehicle manufacturer is China Railway Rolling Stock Corporation (CRRC). These vehicles will operate as married pairs in the LA Metro red and purple (D) line subways, and trains may be made up of several married pairs of HR 4000 vehicles. The first set of married pair vehicles will be shipped to LACMTA in August 2022, while two other married-pairs will be shipped to LACMTA in December 2022.

The first set of married pair (MP) vehicles is expected to arrive at LACMTA between November and December 2022. It has been delayed because open items were identified in the Springfield assembly site that have high risk to LACMTA operations. The shipment of the other 2 MPs, which are still in Changchun, China, is delayed because CRRC is awaiting replacement parts from a new vendor. Those 2 MPs are expected to arrive in the United States by December 2022 and Los Angeles by Spring 2023.

#### Regional Connector Project:

The Regional Connector Transit Corridor (RCTC) Project is a below-grade, 1.9-mile, dual-track light rail system that will extend the existing A Line (formerly Blue Line) from the 7th/Metro Station to the existing L Line (formerly Gold Line) in the Little Tokyo area of Los Angeles. The new RCTC link will allow passengers to travel from Azusa to Long Beach and from East Los Angeles to Santa Monica without transferring lines. The RCTC will contain three new subway stations. The contractor, Regional Connector Constructor (RCC) intends to turn over different system elements at different times to Metro once they are ready, instead of turning over everything at once. The goal is to optimize scheduling. The guideway has been turned over to Metro the weekend of June 25-26, which means that guideway access will be handled through Metro Track Allocation process instead of through the contractor.

The project is still experiencing material delays and testing delays. As a result, LACMTA is targeting to open RCTC in Quarter 1 of 2023. Five Emergency drills are scheduled and will span November 2022 to January 2023.

#### D Line (Westside) Extension Project:

LACMTA is extending the D (formerly Purple) Line from the current terminus at Wilshire/Western station for nine miles to Westwood Veteran’s Administration Hospital. This extension will consist of approximately 9 miles of heavy rail subway with seven new stations and is separated into 3 different projects/segments, PLE1, PLE2, PLE 3. The project is funded mostly by Measure R, Measure M and federal grants. Section 1 is forecast to open in 2024, Section 2 in 2025 and Section 3 in 2027. Travel time between Westwood and downtown L.A. is expected to take about 25 minutes. The design build contractor for Segment 1 is STS (a joint venture of Skanska, Traylor, Shea). The design build contractor for Segment 2 is TPOG (a joint venture of Tutor Perini and O&G). Tutor Perini is also the design build contractor for Segment 3 tunneling and stations.

As of August 2022, Safety related design conformance verification by the Safety Certification Review Team is nearly completed for Section 1 and 2. Track and structures items remain for Section 1 and for Section 2 the documents are in the LACMTA approvals process. Construction progress for Section 1 is at 79% and all 3 stations are under construction. Construction progress for Section 2 is at 54% with eastbound tunneling at 73% completion and westbound tunneling at 78% completion. Construction progress for Section 3 is at 41% with eastbound tunneling at 67% and westbound tunneling at 57%.

#### MGLFECA Foothill Extension Phase 2B:

LACMTA is extending the L (formerly Gold) Line from the current terminus of Azusa Station to the City of Montclair. The Metro Gold Line Foothill Extension Construction Authority (MGLFECA) is an independent transportation planning, design and construction agency created in 1998 by the California State legislature to resume design, contracting, and construction of the Los Angeles to Pasadena Metro Gold Line. The initial 13.7-mile, Los Angeles to Pasadena Metro Gold Line was completed and opened in 2003. Phase 2A of the Foothill Extension project was completed in March 2016 and extended the Gold Line from Pasadena to Azusa. Once construction of Phase 2B is complete, the MGLFECA will transfer the project to LACMTA to operate. In August 2019, the MGLFECA awarded the design build contract to the Kiewit Parsons Joint Venture. Due to funding issues, the current terminus of the new alignment was changed to Pomona Station with a contract option to build to Montclair if the MGLFECA can secure additional funding. The estimated completion of the Pomona segment is early 2026. The contract option portion from Pomona to Montclair would be on a shared corridor with Metrolink. Major construction commenced July 2020, beginning with track and warning equipment installation at the at-grade rail crossings.

As of August 2022, Safety related design conformance verification by the Safety Certification Review Team is nearly completed. Construction progress for the project to Pomona has reached the 50% milestone and the project continues to seek funding for the contract option to build to Montclair.

### Crenshaw/LAX Corridor Project:

LACMTA is constructing a new Light Rail Transit (LRT) line through the Crenshaw/LAX Corridor. The Line will travel 8.5 miles from the existing Metro Exposition Line at Crenshaw and Exposition Boulevards to the Green Line and will serve the cities of Los Angeles, Inglewood, El Segundo, and portions of unincorporated Los Angeles County. The project consists of Segments A, B1, B2, and C. Substantial completion of Segments A-B occurred on March 12, 2021. Now the AMC (Airport Metro Connector) Station is under construction in Segment A; it will connect to the future LAX APM. To avoid the construction zone but allow revenue service, there are preparations underway for a turnback operation north of the AMC Station. Substantial completion of Segment C occurred in June 2022. Now that the entire alignment is substantially completed, pre-revenue operations are anticipated to start no later than August 1, 2022.

LACMTA staff submitted the Crenshaw/LAX Safety Certification Verification Report (SCVR) on September 13, 2022 with the intention of opening on October 7, 2022. CPUC staff sent a letter to LACMTA staff on September 28, 2022 with conditional SCVR approval pending closure of safety-critical open items. LACMTA staff regularly updated CPUC Staff about open items leading up to October 7 and the items were addressed to CPUC staff's satisfaction. Therefore, Crenshaw/LAX opened on October 7, 2022 between Expo/Crenshaw Station and Westchester/Veterans Station. The rest of the alignment leading south to the future LAX APM and the existing Metro C Line (formerly Green) will open within the next 2 years.

Additionally, the Crenshaw/LAX Safety and Security Certification Plan (SSCP) Revision 7 was submitted on September 23, 2022 with all CPUC staff comments addressed. The SSCP Revision 7 was approved by CPUC staff on September 29, 2022.

### New A Line Project:

In the 2019 as part of the New Blue Improvements Project, LACMTA made improvements to its A Line (formerly Blue Line) that runs from Downtown Los Angeles to Long Beach. The Blue Line was renamed the "A Line" prior to fully reopening to the public on November 2, 2019. There were improvements to train control, track, overhead power, Willowbrook/Rosa Parks Station, and general station areas.

At Willowbrook/Rosa Parks Station, LACMTA would like to convert the northern emergency exit grade crossing to a public crossing. On 5/16/22 there was a virtual meeting between LACMTA and CPUC Staff to discuss this proposal and a field diagnostic meeting occurred on 7/12/22. A crossing application will

have to be submitted to the CPUC for the reopening of the north crossing at the Willowbrook/Rosa Parks Station. The test results for the yard train control upgrades were acceptable and staff training on the new system is complete. CPUC Staff is currently reviewing the test reports. Yard operations is still, however, using the older system since transfer to the new train control system is pending closure of the punch-list.

### East San Fernando Valley Project:

The East San Fernando Valley project alignment will start at the City of Los Angeles Van Nuys Bus Rapid Transit Orange line station and head north for 6.7 miles through the San Fernando Valley, adding 11 new LRT stations, with 34 LRVs serving this alignment. It will be a street running system for the most part with approximately 3 miles on a shared corridor with Metrolink/Amtrak. LACMTA has contracted Gannett Fleming Inc. to develop a 30/60 percent design package. LACMTA was planning to begin the procurement process of the final design build package sometime in the middle of 2021. The final design build package procurement process was delayed due to the pandemic but is expected to take place in 2022 with groundbreaking on construction to follow soon thereafter. CPUC staff have been working with the project team and LACMTA on development and drafting of the Safety Certification Plan which was approved by the commission on December 16, 2021. Forecast Revenue Service Date is June 2028.

Design progress is currently at the 30-60% range and the Project is working closely with CPUC on crossings applications review and approvals.

### West Santa Ana Branch Transit Corridor Project:

LACMTA is evaluating a new LRT line that will connect southeast LA County to downtown Los Angeles, serving the cities and communities of Artesia, Cerritos, Bellflower, Paramount, Downey, South Gate, Cudahy, Bell, Huntington Park, Vernon, unincorporated Florence-Graham community, and downtown Los Angeles. The West Santa Ana Branch Transit Corridor (WSAB) is a 19-mile corridor project. LACMTA staff submitted a proposed funding plan/report and is exploring Public-Private Partnerships to bridge the funding gap. The Metro Board of Directors met on January 27, 2022, to discuss the selection and approval of the project terminus and a Locally Preferred Alternative (LPA). The Metro Board approved Los Angeles Union Station as the northern terminus of the West Santa Ana Branch Transit Corridor Project. The 14.8-mile Slauson/A Line to Pioneer route was also approved as the Locally Preferred Alternative (LPA) for the project's initial segment between Artesia and Downtown Los Angeles.

No Updates.

## Los Angeles World Airports – LAWA

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### LAWA Automatic People Mover Project:

Los Angeles World Airports (LAWA), the governing body of Los Angeles International (LAX) and Van Nuys airports, is developing a multi-billion-dollar upgrade to the ground transportation system at LAX. The 2.25-mile Automated People Mover (APM) will have six new stations, three of which will connect new rental car, airport parking and Metro facilities to the airline terminals. Those in the Central Terminal Area (CTA) will provide fast and easy connections to nine airline terminals with a pedestrian walkway system. 44 cars will be built for the APM system, with the cars starting to arrive at the LAX site in the second quarter of 2022. Car 1 was shipped from the Alstom facility in Pittsburgh, PA on 6/2/22, and Car 2 was shipped on 6/13/22.

As of October 19, 2022, the station construction is 65.1% complete and the guideway construction/installation finishes is 47.5% complete.

## Orange County Transportation Authority – OCTA

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### OC Streetcar Project:

The OC Streetcar (OCSC) project consists of 4.15 miles of track between the Santa Ana Regional Transportation Center in the City of Santa Ana and the Harbor Boulevard/Westminster Avenue intersection in the City of Garden Grove. The project includes 10 stations along the alignment and the procurement of 8 Siemens S700 LRVs. The project is currently under construction. On March 4, 2022, Walsh Construction, the contractor on OCSC project, filed a lawsuit against OCTA alleging that the project breached the agreement governing the scope of work, citing numerous alleged failings on OCTA's part including neglecting to pay the company more for, or extending deadlines to accommodate, added work on the project. Walsh Construction is asking for at least \$50 million in damages as a result of the contract violations. On July 11, 2022, OCTA submitted a GO 95 variance request to RTSB. The request is regarding 42 overhead contact system (OCS) poles that they are not able to meet the GO 95 minimum clearance requirement. OCTA has been working with RTSB since January 2021 to determine the clearance requirements of GO 95, feasibility of design changes to meet the requirements, and then mitigation methods for remaining conflicts. OCTA's proposed mitigations include relocation of Southern California Edison (SCE) secondary electric wires by two of the Overhead Catenary System (OCS) poles and installation of an industry-used protective sleeve of the communication wires adjacent to the remaining 40 OCS poles. OCTA has met with affected utility owners and received written concurrences on proposed mitigation method. Currently, RTSB is reviewing the variance request and working on a draft resolution for Commission approval.

OCTA has completed repairs for both the Westminster Bridge and Santa Ana River Bridge. Downtown construction on Fourth St is wrapping up, with embedded track installation complete and landscaping and stations still in progress.

## Sacramento Regional Transit District – SRTD

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### LRV (Light Rail Vehicle) Procurement Project:

SRTD will be acquiring 36 new Siemens low floor light rail vehicles. SRTD acquired \$172 M for them and to make changes to its stations to accommodate the new low floor P20 Siemens S700 LRVs. Estimated in-service date of first vehicle is projected for 11/2023. Safety Certification Plan is in development and plans and specifications have been submitted.

### Dos Rios Light Rail Station Project:

SRTD will be completing final design and requesting bids for construction of a new light rail station. SRTD has acquired funding for the project. Estimated in-service date of the station is projected for 7/2024. Safety Certification Plan is in development and plans and specifications have been submitted.

### Gold Line Double Track Project:

SRTD will be completing final design and requesting bids for construction of two passing tracks between Folsom and Sacramento, to accommodate 15-minute service. SRTD has acquired \$35 M for the project. Estimated in-service date of the track is projected for 8/2023. Safety Certification Plan is in development and plans and specifications have been submitted.

## San Diego Metropolitan Transit System – SDMTS

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### San Diego Trolley, Inc. (SDTI) SD-10 Light Rail Vehicle Procurement:

SDTI is procuring 45 LRVs known as SD10 (Car Nos. 5046 to 5091) to replace the current SD-100 models cars which will be retired from revenue service. The procurement process began September 2020 with an expected schedule completion and acceptance of all 45 LRVs by late 2023. As Siemens cars are delivered on-site at the SDTI Yard, they will undergo commissioning and dynamics tests. Staff will participate in the acceptance testing throughout the procurement process. Staff granted permission in July for two additional SD10's to enter revenue service. To date, 14 out of 44 cars are in revenue service operation.

No Updates.

## Santa Clara Valley Transportation Authority – SCVTA

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### BART Silicon Valley (BSV) Phase II:

This BSVII is an approximately 6-mile extension of the BART system from the Berryessa/North San Jose Station through downtown San Jose in an approximately 5-mile long single-bore tunnel terminating in Santa Clara near the Santa Clara Caltrain Station. The Phase II project includes three stations in the City of San Jose (Alum Rock/28th, Downtown San Jose and Diridon Stations), one station in the City of Santa Clara (Santa Clara Station), and the Newhall Maintenance Facility. The project Safety and Security Certification Plan (SSCP) was originally Commission approved under resolution ST-83 on February 15, 2007, for the entire 16 miles extension but SCVTA Board divided the project into two phases. The BART's Silicon Valley Berryessa extension (phase I) was placed in revenue service on June 13, 2020. On June 16, 2021, Staff received the project SCP for the phase II, and CPUC approval was sent on August 17, 2021, approving the SCP. This project is under preliminary design phase and Staff continues to attend the FTA Project Management Oversight Contractor (PMOC) meetings, Safety and Security Review Committee (SSRC) meetings, Fire Life Safety and Security Committee (FLSSC) meetings. Revenue Service Date is scheduled to be 3/31/2031.

Contract Package 1 (CP1) Systems – RFP Draft C released on 4/15/2022. The final RFP is anticipated to be issued in first quarter of 2023. Continue to work with other contract packages.

Contract Package 2 (CP2) Tunnel & Trackwork – Contract has been executed on 6/9/2022. Limited Notice to Proceed (LNTP) issued on 6/9/2022. Innovation Task Force (KST Joint Venture, BART, VTA) continue to meet and work on Innovation processes by contractors. Draft Innovation Engineering Report is underway.

Contract Package 3 (CP3) Newhall Yard and Santa Clara Station – RFP Revision B (pre-final/draft) released 5/20/2022. RFP Revision 0 (final) release date 9/30/2022.

Contract Package 4 (CP4) Stations – Reissue RFQ tentative date January 2023. Issue RFP Revision 0 tentative date August 2023. Development of technical documents continue in support of other Contract Packages.

### Eastridge to BART Regional Connector:

The Eastridge to BART Regional Connector (EBRC) will add 2.4 miles of double track light rail along Capitol Expressway in San Jose. This segment extends the SCVTA light rail system from the Alum Rock station to Eastridge Transit Center, entirely within the City of San Jose. The alignment traverses through a mixture of residential, commercial, industrial, and undeveloped areas. The proposed light rail alignment consists of an elevated guideway to the side and in the median of Capitol Expressway on retained earth and



structure. There are no new at-grade automobile crossings, but there will be two pedestrian at-grade crossings at Eastridge Station. Resolution ST-88 dated May 24, 2007, grants SCVTA’s request for approval of its Capitol Expressway Light Rail Safety and Security Certification Plan (SSCP) dated March 2, 2007. SCVTA recently submitted an updated SSCP dated January 31, 2020. Staff reviewed and approved the SSCP on July 10, 2020. The project has almost completed preliminary engineering design phase and Utility relocation is occurring currently. Staff awaits to attend future meetings related to this project.

No Updates.

#### Light Rail Signal Priority Detection Upgrades Project:

The work involved is a replacement of the Train-to-Wayside hard-wired system with a new GPS-based LRV detection system to act as primary detection system for requesting transit service priority (TSP) at non-gated signalized intersections. The necessary equipment for the work would be installed on 98 of VTA’s light rail vehicles and would be installed at 89 signalized intersections. SCVTA submitted the project SCP on May 5, 2021. Staff reviewed and approved the project SCP on June 30, 2021. At its August 19, 2021, meeting the Commission approved Resolution ST-245.

At the July 2022 Rail Activation Oversight Committee meeting the following update was provided. TSP pilot testing in the city of Sunnyvale will accommodate existing SCADA vehicle tracking circuit, via an isolated circuit by utilizing 242 isolator cards and relocating pin landings. Light Rail Vehicle Equipment Installations have begun.

## San Francisco Municipal Transportation Agency – SFMTA

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#### Central Subway Project (CSP):

SFMTA is excavating 1.7 miles of tunnel to extend the Muni Metro Third St. Line to provide a direct transit link between the Bayshore and Mission Bay areas to South of Market, downtown San Francisco, and Chinatown.

SFMTA intends to issue the SCVR on or about 10/28/22 before revenue service starts towards the end of January 2023. They anticipate pre-revenue (‘soft launch’) to start on or about 11/19/22 with a scaled-back route, which will shuttle trains up and back between Chinatown and 4th-and-Brannan stations and will be weekends-only. Currently, they have been training operators on the alignment.

On 10/28/22, SFMTA submitted the Safety/Security Certification Verification Report, Rev. 0, for the project along with the letter to request authorization to start passenger service on the Central Subway on Saturday, 11/19/22. On 11/10/22, SFMTA submitted Safety/Security Certification Verification Report, Rev. 1, for the project. SFMTA managed to resolve all the exceptions that they did not have work arounds.

The only remaining exceptions are those that have work arounds. Those remaining exceptions, such as Fare Collection, will be resolved before the full revenue-service opening in January.

#### LRV4 Procurement to Expand and Replace the Rail Fleet:

SFMTA LRV4 project is to procure 264 state-of-the-art Siemens LRVs. CPUC granted SFMTA approval for revenue service in 2017. After delivery of 68 cars by 2019, SFMTA found issues with the doors. SFMTA have since stopped accepting new cars, and asked Siemens to resolve the issue. Siemens redesigned sensitive edges and rubber elements for the doors for improved sensitivity for patron use and updated the rear viewing technology.

On 9/19/2022, RTSB staff sent a letter to authorize SFMTA to place two LRV4 cars (2083 & 2084) into revenue service in the near future. Currently, SFMTA has 84 LRV4's accepted and revenue service ready.

#### SFMTA L Taraval Improvement Project:

In response to numerous collisions and reported safety concerns, an early implementation of measures known as the L Taraval Rapid (a non-safety certifiable) project to improve safety by adding temporary clear zones at transit stops, a transit only lane, and painted safety zones at street corners. The next step is a nearly complete rehabilitation on Taraval Street that will replace infrastructure like the worn rails, overhead wires, water, and sewer lines, as well as repave the entire street. Construction will last approximately three years. Transit service on the L Taraval will remain throughout with a combination of buses and trains. Once completed, the corridor will boast new transit priority traffic signals, bulb-outs to make pedestrian crossing safer, new trees, high visibility crosswalks, safety boarding islands, and increased accessibility. In order to minimize disruptions during construction and maximize flexibility, the project is split in two construction segments that will overlap. During various times, there will be bus substitutions for the L Taraval so that crews can work on the rails and infrastructure beneath them. Segment A: San Francisco Zoo to Sunset Boulevard was completed in July 2021.

Segment B: Sunset Boulevard to West Portal – Construction began in early 2022 and will continue through fall 2024. L Taraval segment B construction has reached a phase where the rail tracks west of the intersection of Ulloa St and Madrone Ave have been taken offline to complete construction work. Work needs to be performed during construction to facilitate the reconstruction of the water and sewer mains as well as replace the tracks and overhead lines. OCS work will be performed sequentially along the L Taraval line from West Portal to Sunset Blvd.

Currently, work continues on water and sewer lines, as well as on the overhead contact system (OCS). OCS work is now focused on foundation work and installation of new poles. Construction teams will be excavating and jackhammering pavement, which may cause vibrations. Materials are also being staged

nearby. Dust control and housekeeping measures are in place at active construction and staging locations. The L Taraval rail service is expected to be reactivated in the fall of 2024.

## Appendices

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### GENERAL DEFINITIONS

#### Corrective Actions Plans

General Order 164-E defines Corrective Action Plan as a plan developed by a Rail Transit Agency that describes the actions the RTA will take to minimize, mitigate, control, correct, or eliminate risks and hazards, and the schedule for implementing those actions.

#### Accident Investigations

Per General Order 164-E, the Commission must be notified within 2 hours by rail transit agencies of accidents if they include one of the following: a fatality (occurring at the scene, or within 30 calendar days following the incident); one or more persons suffering “serious injury” (as defined in GO 164-E); a collision involving a rail transit vehicle and another rail transit vehicle, or individual; a derailment of any rail transit vehicle at any location, at any time, whatever the cause; an evacuation for life safety reasons; or a runaway train. “Courtesy notices” are not included in these statistics.

## Monthly RTSB Data

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### Statistics Summary

Table 1. Investigation &amp; CAP Data

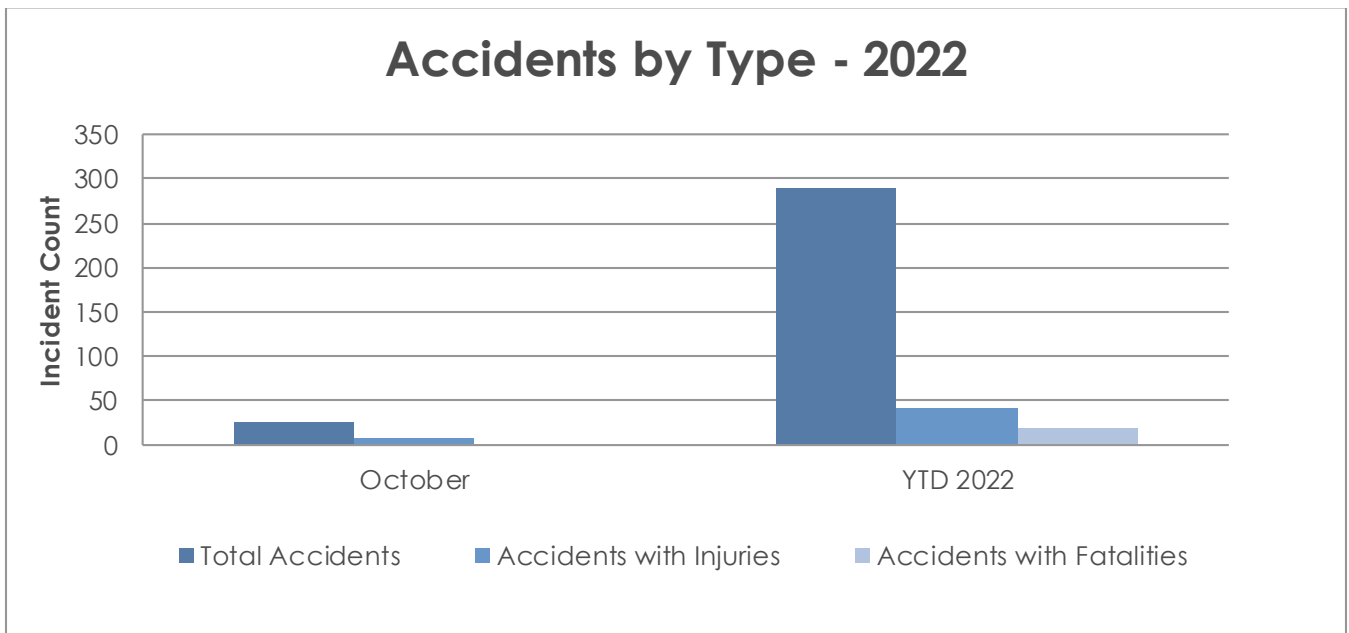
<b>Investigations</b>	<b>October 2022</b>	<b>YTD2022</b>
<b>Accidents Reported</b>	25	<b>289</b>
<b>Accident Investigations Closed</b>	30	<b>232</b>
<b>Complaints Investigated</b>	0	<b>6</b>
<b>Rail Transit Inspections</b>	64	<b>465</b>
<b>Triennial Review</b>	0	<b>3</b>
<b>Corrective Action Plans</b>	<b>October 2022</b>	<b>YTD 2022</b>
<b>New Corrective Action Plans</b>	46	<b>343</b>
<b>From Triennial Review</b>	0	<b>0</b>
<b>From Incidents</b>	7	<b>61</b>
<b>From Internal Safety/Security Audits</b>	0	<b>12</b>
<b>From Rail Transit Inspections</b>	39	<b>264</b>
<b>From Hazard Management</b>	0	<b>6</b>
<b>Closed Corrective Action Plans</b>	28	<b>282</b>
<b>From Triennial Review</b>	0	<b>5</b>
<b>From Incidents</b>	2	<b>23</b>
<b>From Internal Safety/Security Audits</b>	0	<b>7</b>
<b>From Rail Transit Inspections</b>	26	<b>246</b>

<b>From Hazard Management</b>	0	1
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Data collected from RSSIMS

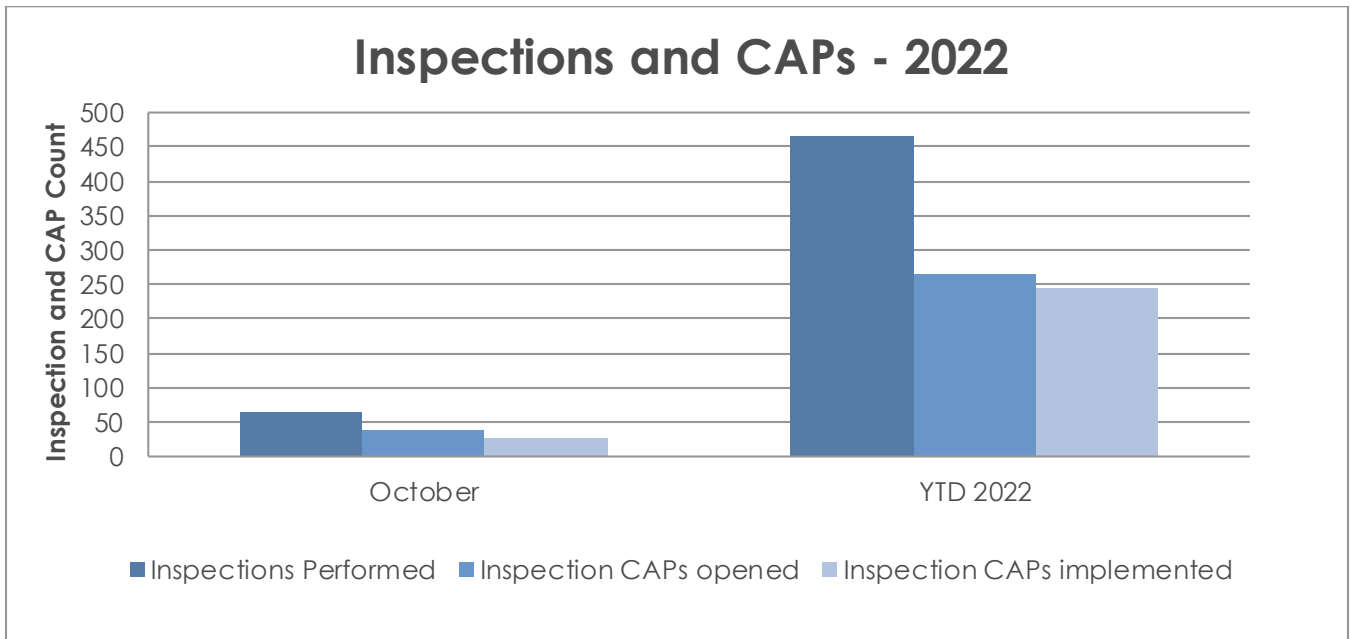
### Ongoing Data / Trends

Table 2. Accidents by Type



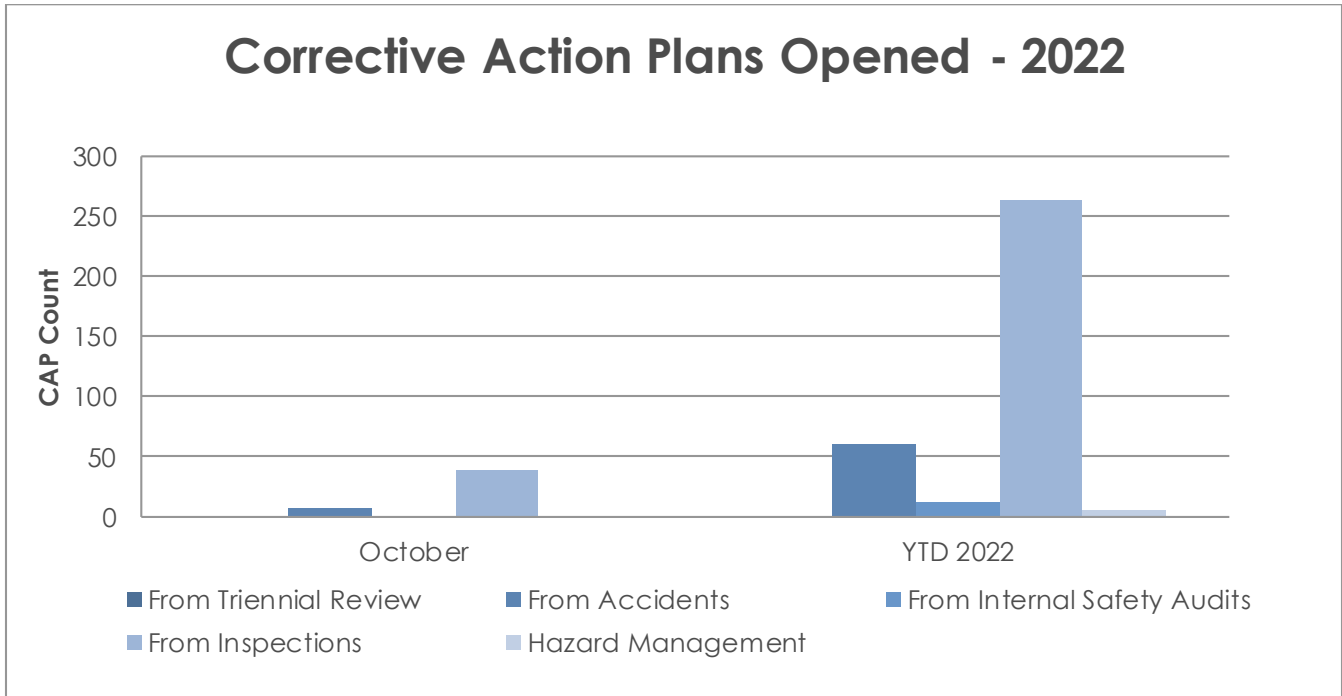
Data collected from RSSIMS

Table 3. Inspections & CAPs



Data collected from RSSIMS

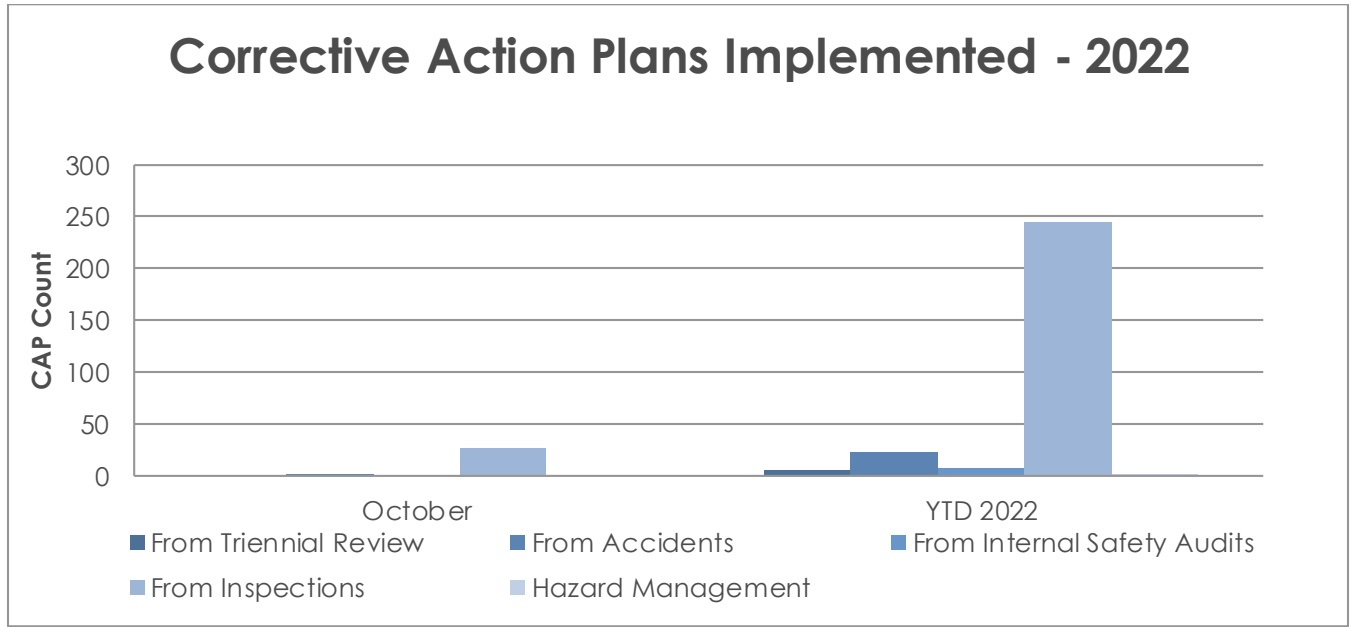
Table 4. CAPs Opened



Data collected from RSSIMS



Table 5. CAPs Closed



Data collected from RSSIMS