

FINAL REPORT OF INVESTIGATION A&I E19090

February 18, 2019

Customer Fatality

Adopted by the Metrorail Safety Commission at its meeting on June 11, 2019.

Washington Metrorail Safety Commission
777 North Capitol Street, NE, Suite 402
Washington, DC 20002



FINAL REPORT OF INVESTIGATION A&I E19090**SMS 20190219#77915**

Date of Event:	02/18/2019
Type of Event:	Customer Fatality
Incident Time:	23:54 hrs.
Location:	Greenbelt Station (E10)
Time and How received by SAFE:	05:35 hrs. - 02/19/2019, SAFE On Call Phone
Safety Officer Response:	Yes, SAFE 801 and SAFE 802
Time of Safety Officer Arrival:	06:30 hrs. - 02/19/2019
Time of Safety Officer Departure:	08:30 hrs. - 02/19/2019
Rail Vehicle:	Train ID 591 (L7410-7411-7523-7522-7404-7405-7357-7356)
Injuries:	Fatal Injury
Damage:	N/A
Emergency Responders:	PG FIRE/EMS 814, SAFE, MTPD

Executive Summary

On Tuesday, February 19, 2019 at approximately 05:35 hrs., SAFE was notified by Rail Operations Control Center (ROCC) of report of a deceased body within the platform limits on Track 1 at Greenbelt Rail Station (E10). A review of Close Caption Television video (CCTV) footage revealed that on Monday, February 18, 2019 at approximately 23:05 hrs., on Track 1 at Greenbelt Station (E10), a customer in dark clothing appeared to be stumbling on the platform and subsequently fell into the roadway. The platform video playback projected limited lighting of the roadway where incident occurred. However, a physical inspection performed by responding SAFE personnel did not reveal a lighting deficiency. The customer did not appear to recover from the fall and remained out of camera view.

At approximately 23:54 hrs., Train ID 591 (L7410-7411-7523-7522-7404-7405-7357-7356) arrived at the station and it is most probable that the train made contact with the customer based on blood and flesh identified under Lead Car 7410.

Washington Metropolitan Area Transit Authority (WMATA) personnel did not discover the deceased body until approximately 05:30 hrs. on Tuesday, February 19, 2019 when Prime Mover (PM) 54 Equipment Operator (E/O) reported to ROCC that while entering the

Greenbelt Station, Track 1, they observed what appeared to be a human body on roadway.

Based on post incident inspection of the station platform, the responding Safety Officer did not report any visible tripping hazards that may have contributed to this incident.

Train ID 591 Train Operator was sent for Post Incident Testing on Tuesday February 19, 2019 and interviewed by SAFE. The consist involved was removed from service for post incident inspection to include but not limited to video/event log download and inspection.

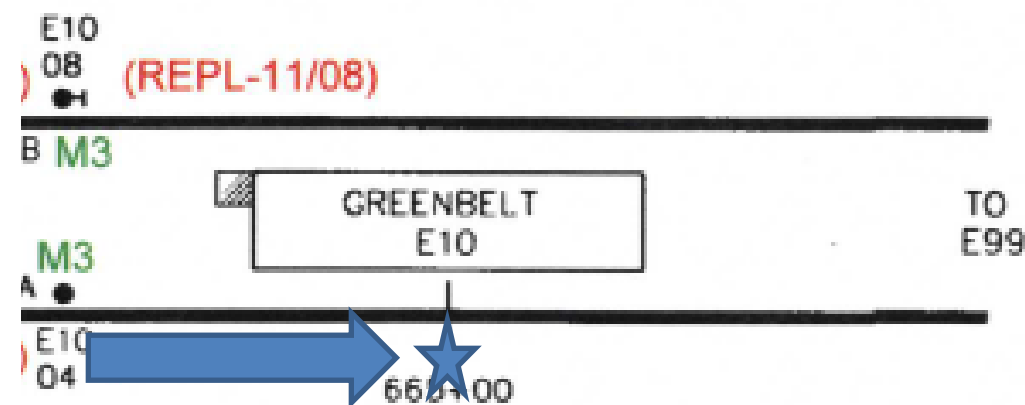
Notification

Title	Time	Comment:
FTA	08:01 hrs.	Email
WMSC	08:01 hrs.	Email
CMC	09:47 hrs.	Phone Call

Incident Site

Greenbelt Station (E10), Track 1

Field Sketch/Schematics



Investigation

On Tuesday, February 19, 2019 at approximately 05:31 hrs., WMATA personnel were notified and dispatched to the Greenbelt Station for a reported incident where a body was found on the roadway. Metro Transit Police Department (MTPD) Officer arrived at 05:42 hrs. and was able to confirm the presence of a body on the roadway, Track 1. Per the MTPD Officer, the body was displaying no signs of life and was located at the midway point of the station platform. Prince Georges County Fire/EMS (PGFD) Engine, MTPD, a Medical Examiner and SAFE personnel were also notified and responded. Upon arrival to

the incident location by PG Fire/EMS, it was revealed that the body exhibited no signs of life.

Based on review of the Verint video recording playback of the Greenbelt Station platform, it revealed the following information related to the Customer who was struck by the train:

- Customer was traveling alone
- Customer moved along Track 1 and fell off the platform onto the roadway unassisted
- Customer did not recover from the fall and return back to the platform. **Note:** The Customer remained out the camera view

At 23:54 hrs. the previous evening (2/18/2019) Train ID 591 serviced the Greenbelt station on Track 1 and was removed from service as part of its regular schedule and stored at Greenbelt Yard station, Track 1.

Based on review of the front facing camera review from Lead Car 7410, it was not apparent that a body was on the roadway as the train entered the station. **Note:** See photos 5,6 and 7 below. Additionally, platform video did not display the customer on the roadway after the fall and as Train ID 591 arrived at the station (see photo 3).

There were two TRST units that returned to Greenbelt yard via Greenbelt Station, Track 1. The first unit went through the station at 05:14 hrs., and the second unit which subsequently notified ROCC of what appeared to be the body on the roadway at 05:21 hrs.

SAFE visually inspected the platform. No anomalies were reported at that time.

MTPD

See Attachment 1 pages 1-4 for MTPD Event Report

Train Operator

Days Off: Thurs Wed

Per the T/O interview statement, Train ID 591 entered the Greenbelt Station Track 1. The T/O reported that the track was clear. He further stated that he turned off his high beams (lights), checked the platform and scanned the roadway to the 8-car marker and didn't see anything.

T/O's 30-day work history was reviewed, and it was determined that T/O work history was within the WMATA guide lines listed on the Fatigue Risk Management Policy 10.6 and Hours of Service Limitations for Prevention of Fatigue Policy 10.7

Car Maintenance (CMNT)

The following special undercar inspection was performed on cars 7410 and 7411 and the findings are below:

- On car 7410, damage was found to the front Truck Control Unit (TCU) cutout protective cover and to the Front Truck Holding Brake Actuator Cylinder at wheel 4
- CMNT steam cleaned blood and flesh from under Rail Car 7410
- CMNT repaired the TCU cover and holding brake bracket on Rail Car 7410
- CMNT found no hit damage, no defects on Rail Car 7411 so no repairs were performed on Rail Car 7411
- CMNT steam cleaned some blood and flesh from under Rail Car 7411

CMNT actual completion of the inspection was on Wednesday, February 20, 2019. Refer to Attachment 2 and 3.

Vehicle Program Services (CENV)

Based on the Event Recorder (ER) data analyzed, the following events transpired on 2/18/2019 with Train ID 519 (Lead Car 7410):

1. Train ID 591 arrived at Greenbelt Station at 23:54:42
2. The left side doors were commanded open at 23:54:53
3. Doors were commanded close at 23:55:17 and All Doors closed was attained at 23:55:22
4. Lead Car 7410 was keyed down at 23:55:30.

Furthermore, there was no data to support there were any anomalies with the train that may have contributed to this incident.

See Illustration 1 for the ER chart.

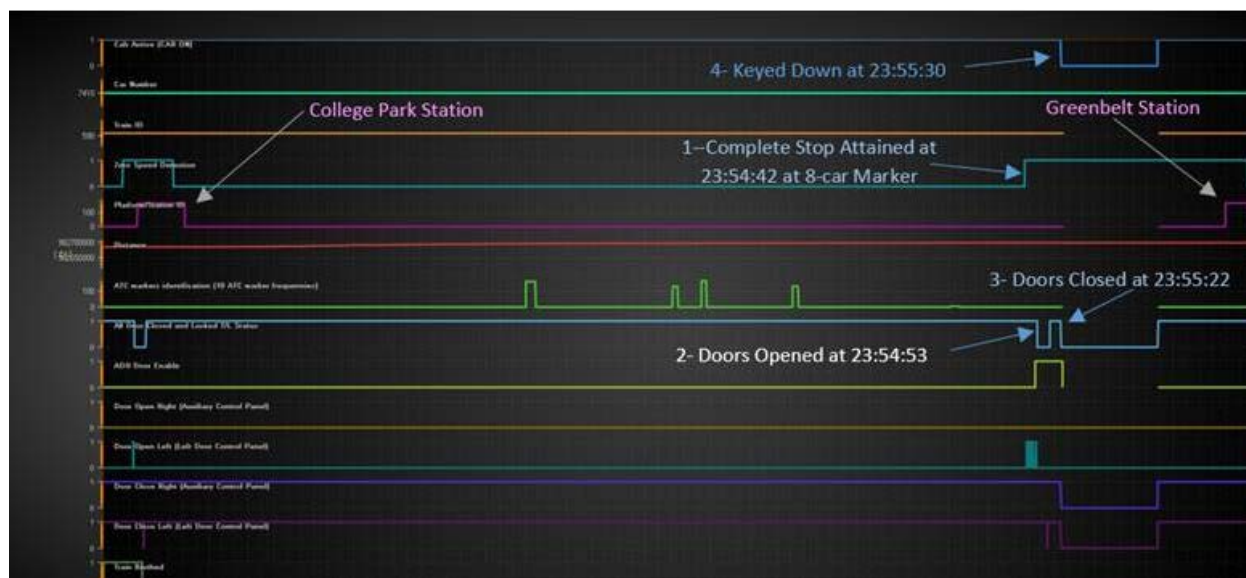


Illustration 1

Weather

At the time of the incident, the temperature was 33° F, and clear. SAFE has concluded that weather was not a contributing factor in this incident (Weather source: National Oceanic Atmospheric Administration (NOAA) – Location: Greenbelt, MD.)

Conclusion

Based on the salient facts, SAFE concludes based on platform video review, the customer appeared to be unsteady on his feet while positioned close to the platform edge and subsequently fell into the roadway before being struck by Train ID 591, Lead Car 7410. Station's CCTV and Car 7410 Forward Facing Camera did not display a human form on the roadway after the customer fell onto the roadway. It is most probable that the customer was positioned under the platform in the area of refuge that was not within CCTV camera view; however, fouling the dynamic envelope of the train when Train ID 591 entered the station limits.

The station was inspected by SAFE personnel immediately after the incident and there were no tripping hazards found that contributed to the customer's fall from the platform. Additionally, the station was properly lit, the PA system was fully operational and the Emergency Trip Station (ETS) box was operating properly when tested by SAFE personnel.

Finally, there was no data to support there were any anomalies with the train that may have contributed to this incident.

SAFE does not have any additional information to disclose regarding E19090, this was an MTPD related incident and recommends its closure.

Immediate Mitigation to Prevent Re-Occurrence

- Track 1, 3rd rail power was de-energized
- MTPD investigation commenced
- Train removed from service.

Corrective Action

No corrective actions were taken as a result of this event.

Attachments



Event Report					
Metro Transit Police Department					
ORI-DCMTP0000					
Type of Report	MTPD CCN	Local Jurisdiction		Local CCN	
Open		Prince Georges County			
Event Location					
Street	Station Acronym	City, State	County	MTP District	Local District
5717 Greenbelt Metro Dr	GNBT - GREENBELT	GREENBELT	PG1-Hyattsville-District 1	District 1	PG1-Hyattsville-District 1
Date and Time of Event			Date and Time Reported		
From To			2/19/2019 5:31:33 AM		
2/19/2019 5:31:00 AM					
Category					
Rail Station, Line or Right-of-Way	On Bus	Property	Other		
GNBT - GREENBELT		Rail Station	MSA1		
Green					
Specific Location (Foot Bridge, Kiosk, Platform, Tracks, Etc.)			For Burglary or B&E Only		
Right-of-Way/Track Bed			If Hotel Rule Applies, #Premises or Facilities Entered:		
Location Description					
Rail Station					
Event Information					
If Incident Use This Block	Offense #	DEATH REPORT			
Incident Classification	Offense Classification				
Incident Description	Description	DEATH REPORT			
	Weapon/Force Type of Activity	/			
Entry Type:		Number Premises Entered:			
Hate Crime Motivation:					
Bias Motivation					
None (No Bias)					
Offender Suspected of Using:		Modus Operandi (MO):			
Case Status Information		If Case Cleared Exceptionally:		Clearance Date	
Case Status (Completed by the Official who signs this report):					
Reporting Officer (Print)	Badge #	Second Officer (Print)	Badge #		
Supervisor's Name (Electronically Approved)		Teletype #	Investigator Notified	ID#	

MTPD CCN:
ORI-DCMTP0000

Event Report Page 1 of 5

Attachment 1 – MTPD Report

Date: 02/18/2019 Time: 23:05 hrs.
Final Report – Customer Fatality at E10
E19090

Drafted By: SAFE 705 – 02/21/2019
Reviewed By: SAFE 701 – 03/18/2019
Approved By: SAFE 70 – 05/03/2019

Victim Information				
Victim Sequence #: 01		Victim Assistance Provided: Y - Yes		
Last Name, First MI				DOB
[REDACTED]				7/2/1988
Address Type	Address (Street) City, State Zip			
H - Home	[REDACTED]			
Entity Name				
Work/School Address - Adtl. Contact Info				
Age of Victim	Sex	Race	Ethnicity	Resident Status
[REDACTED]	Male	White	H - Hispanic Origin	Nonresident
Classification of Victim		Type of Victim	This Victim is Related to Which Offense	
9930 - DEATH REPORT		Individual	9930 - DEATH REPORT	
Is suspect information available at the time of this report:				
Injury Type		Responding Ambulance:	Taken Where	
Aggravated Assault/Homicide Information				
Aggravated Assault/Homicide Circumstances			Additional Justifiable Homicide Circumstances	
Other Person Information				
Last Name, First MI				Entity Type
[REDACTED]				Reporting Party
DOB				
Address Type	Address (Street) City, State Zip			
W - Work	600 5TH STREET NW DC			
Type Phone	Phone Number			
M - Mobile	[REDACTED]			
Work/School Address - Adtl. Contact Info				
Age	Sex	Race	Ethnicity	DL State/Number
	Male	Black	Unknown	

Attachment 1 – MTPD Report

Property Information								
Type	Code	Class	WMATA Owned	Full Description (Include quantity, manufacturer, serial number, size, color, unique features, etc.) Vehicles: Enter Property Type, Code, Classification and Value here. (Describe Vehicle Below)	Age	Fair Market Value	Recovered Value	Recovered Date
Evidence (Including Other Seized Property And Tools)	19			SMART TRIP CARD				
Value Totals								
Veh. Year	Make	Model	Color	Style	Tag #	State	Year	VIN
Property Recovered Date			# Stolen Vehicles	# Recovered Vehicles	Is any property in custody of a police agency? (If Yes, explain below)			
Property Type (Enter number in the "Type" column above.) 1-None 2-Burned 3-Counterfeit/Forged 4-Damaged/Destroyed 5-Recovered 6-Seized (Drugs Only) 7-Stolen 8-Unknown								
Property Description Code (Enter Number in the "Code" column above.) SMART TRIP CARD								
Property Classification (Enter letter in the "Class" column above.) Evidence (Including Other Seized Property And Tools)								
Suspected Drug Type (If this event is a drug case, check up to three applicable boxes and write the estimated amount on the line.)								
Note: If more than 3 drug types, select the 2 most important listing amounts. Then select "Over 3 Drug Types", as the third, to represent the remaining drugs.								
Has a DVR been requested? <i>Narrative Information</i> RADIO RUN RECEIVED FOR A POSSIBLE BODY ON THE TRACKS. A BODY WAS CONFIRMED ON TRACK 1 SHOWING NO SIGNS OF LIFE. MTPD PERSONNEL, PG FIRE/EMS, PG COUNTY POLICE, PG MEDICAL EXAMINER ALL RESPONDED FOR AN INVESTIGATION.								
If second CCN is available, insert here:				Additional Narrative on Supplemental Report				

MTPD CCN:
ORI-DCMTP0000

Event Report Page 3 of 5

Attachment 1 – MTPD Report

Date: 02/18/2019 Time: 23:05 hrs.
Final Report – Customer Fatality at E10
E19090

Drafted By: SAFE 705 – 02/21/2019
Reviewed By: SAFE 701 – 03/18/2019
Approved By: SAFE 70 – 05/03/2019

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Additional Narrative

██████████ REPORTS RECEIVING A RADIO RUN ON 2-19-2019, AT 0531 HOURS, FOR AN ITEM ON THE TRACKS AT THE GREENBELT METRO STATION. THE GREENBELT STATION IS LOCATED AT 5717 GREENBELT METRO DRIVE, GREENBELT MD. THE COMPLAINANT ADVISED THE ITEM WAS A BAG OR POSSIBLE BODY. UPON ARRIVAL, AT 0542 HOURS, I WAS ABLE TO CONFIRM THE PRESENCE OF A BODY ON THE RIGHT OF WAY OF TRACK 1. THE BODY WHICH WAS DISPLAYING NO SIGNS OF LIFE, WAS AT THE MIDWAY WAY POINT OF THE STATION PLATFORM. PG FIRE/EMS ENGINE #14 ARRIVED ON SCENE AND CONFIRMED THERE WERE NO SIGNS OF LIFE. AT THIS POINT, A COMMAND POST WAS ESTABLISHED AND THE IMMEDIATE AREA WAS TAPED OFF TO PRESERVE ANY EVIDENCE. SINGLE TRACKING ON TRACK 2 COMMENCED AT 0540 HOURS. ADDITIONAL RESOURCES TO INCLUDE EMERGENCY MANAGEMENT EM-21 ██████████ AND CSS OFFICERS ██████████ AND ██████████ ARRIVED ON SCENE FOR ADDITIONAL SUPPORT. PRINCE GEORGE'S COUNTY POLICE AND THE PRINCE GEORGE'S COUNTY EXAMINERS OFFICE WERE NOTIFIED. AT APPROXIMATELY, 0710 HOURS, PRINCE GEORGE'S COUNTY DETECTIVE ██████████ AND PRINCE GEORGE'S COUNTY MEDICAL EXAMINER ██████████ ARRIVED ON SCENE. AT 0744 HOURS AND AFTER AN INVESTIGATION BY THE MEDICAL EXAMINER'S PERSONNEL, THE BODY WAS REMOVED AND RECOVERED FROM THE RIGHT OF WAY. THE SCENE WAS TURNED OVER TO RAIL ASSISTANT SUPERINTENDANT ██████████ AT 0823 HOURS AND NORMAL SERVICE RESUMED AT 0921 HOURS.

MTPD CCN:
ORI-DCMTP0000

Event Report Page 4 of 5

Attachment 1 – MTPD Report

Note: Page 5 of 5 is blank page

Date: 02/18/2019 Time: 23:05 hrs.
Final Report – Customer Fatality at E10
E19090

Drafted By: SAFE 705 – 02/21/2019
Reviewed By: SAFE 701 – 03/18/2019
Approved By: SAFE 70 – 05/03/2019

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**Washington Metropolitan Area Transit Authority
Maintenance and Material Management System
Work Order Details**

Work Order #: 14859931
Type: CM



Status: COMP
02/20/2019 13:41

Work Description: SPECIAL UNDERCAR INSPECTION
Job Plan Description:

Work Information			
Asset: R7410	7410, RAIL CAR, KAWASAKI, 7000 AC, A CAR	Owning Office: CMNT-CMNT-CMNT	Parent:
Asset Tag: R7410		Maintenance Office: CMNT-GRBT-INSP	Create Date: 02/19/2019 12:51
Asset S/N: 7410		Labor Group:	Actual Start: 02/19/2019 12:51
Location: 1437	E99, GREENBELT YARD	Crew:	Actual Comp: 02/20/2019 13:41
Work Location: 1437	E99, GREENBELT YARD	Lead:	Item: K18050001
Failure Class: CMNT001	RAIL CAR	GL Account: WMATA-02-33392-50499160-041-*****-OPR**	
Problem Code: 1025	ACCIDENT/COLLISION/DERAIL	Supervisor: [REDACTED]	Target Start:
Requested By:		Requestor Phone: 301955-2160	Target Comp:
Chain Mark Start:		Chain Mark End:	Scheduled Start:
Create-Mileage: 126051.0		Complete-Mileage: 126166.0	

Task IDs							
Task ID	10 FOUND DAMAGE TO THE FRONT ECU CUTOUT PROTECTIVE COVER AND TO THE FRONT TRUCK HOLDING BRAKE ACTUATOR CYLINDER AT WHEEL #4. STEAM CLEANED SOME BLOOD AND FLESH FROM UNDER THIS CAR.						
Component:	000-300-K03 TRUCK&SUSPENSION: WHEEL & AXLE ASSY; TRUCK	Work Accomp:	CHECKED	Reason:	FOREIGN OBJECT DAMAGE	Status:	COMP
Position:	4	Warranty?:	Y				
Task ID	20 REPAIRED THE TCU COVER AND HOLDING BRAKE BRACKET						
Component:	000-300-K10 TRUCK&SUSPENSION: BRAKE HARDWARE; TRUCK	Work Accomp:	REPAIRED	Reason:	INCIDENT//ACCIDENT	Status:	COMP
Position:		Warranty?:	Y				

Actual Labor									
Task ID	Labor	Start Date	End Date	Start Time	End Time	Approved?	Regular Hours	Premium Hours	Line Cost
10	[REDACTED]	02/19/2019	02/19/2019	12:00	14:30	Y	[REDACTED]	[REDACTED]	[REDACTED]
10	[REDACTED]	02/19/2019	02/19/2019	19:30	20:30	Y	[REDACTED]	[REDACTED]	[REDACTED]
20	[REDACTED]	02/20/2019	02/20/2019	12:00	13:30	Y	[REDACTED]	[REDACTED]	[REDACTED]
Total Actual Hour/Labor:							[REDACTED]	[REDACTED]	[REDACTED]

Failure Reporting			
Cause	Remedy	Supervisor	Remark Date
1929 FOREIGN OBJECT DAMAGE	2825 REPAIRED	[REDACTED]	02/20/2019
Remarks: REPAIRED THE TCU COVER AND HOLDING BRAKE BRACKET. VISUALLY INSPECTED. CHECK GOOD.			

Attachment 2 – CMNT post-incident inspection on Rail Car 7410, work-order 14859931

Drafted By: SAFE 705 – 02/21/2019
Reviewed By: SAFE 701 – 03/18/2019
Approved By: SAFE 70 – 05/03/2019



**Washington Metropolitan Area Transit Authority
Maintenance and Material Management System
Work Order Details**

Work Order #: 14859938
Type: CM



Status: COMP
02/20/2019 13:45

Work Description: SPECIAL UNDERCAR INSPECTION
Job Plan Description:

Work Information			
Asset: R7411	7411, RAIL CAR, KAWASAKI, 7000 AC, B1 CAR	Owning Office: CMNT-CMNT-CMNT	Parent:
Asset Tag: R7411		Maintenance Office: CMNT-GRBT-INSP	Create Date: 02/19/2019 12:51
Asset S/N: 7411		Labor Group:	Actual Start: 02/19/2019 12:51
Location: 1437	E99, GREENBELT YARD	Crew:	Actual Comp: 02/20/2019 13:45
Work Location: 1437	E99, GREENBELT YARD	Lead:	Item: K18060001
Failure Class: CMNT001	RAIL CAR	GL Account: WMATA-02-33392-50499160-041-*****-OPR**	Target Start:
Problem Code: 1025	ACCIDENT/COLLISION/DERAIL	Supervisor: [REDACTED]	Target Comp:
Requested By:		Requestor Phone: [REDACTED]	Scheduled Start:
Chain Mark Start:		Chain Mark End:	
Create-Mileage: 126051.0		Complete-Mileage: 126166.0	

Task IDs

Task ID	Description
10	FOUND NO HIT DAMAGE ON THIS CAR. STEAM CLEANED SOME BLOOD AND FLESH FROM UNDER CAR AND BODY.

Component: 000-300-B03 CAR BODY: CAR END GROUP Work Accom: CHECKED Reason: NO TROUBLE FOUND Status: COMP Position: 557 Warranty?: Y

Actual Labor

Task ID	Labor	Start Date	End Date	Start Time	End Time	Approved?	Regular Hours	Premium Hours	Line Cost
10	[REDACTED]	02/19/2019	02/19/2019	12:00	14:30	Y	02:30	00:00	\$98.63
10	[REDACTED]	02/19/2019	02/19/2019	19:30	20:30	Y	01:00	00:00	\$38.52
Total Actual Hour/Labor:							03:30	00:00	\$137.15

Failure Reporting

Cause	Remedy	Supervisor	Remark Date
2475 NO DEFECT; NO REPAIRS PERFORMED	3192 TESTED / INSPECTED	[REDACTED]	02/20/2019

Remarks: INSPECTED UNDERCAR FOR DISCREPANCIES. FOUND NO HIT DAMAGE ON THIS CAR.

Attachment 3 – CMNT post-incident inspection on Rail Car 7411, work-order 14859938

Photos

Date: 02/18/2019 Time: 23:05 hrs.
Final Report – Customer Fatality at E10
E19090

Drafted By: SAFE 705 – 02/21/2019 Reviewed By: SAFE 701 – 03/18/2019 Approved By: SAFE 70 – 05/03/2019
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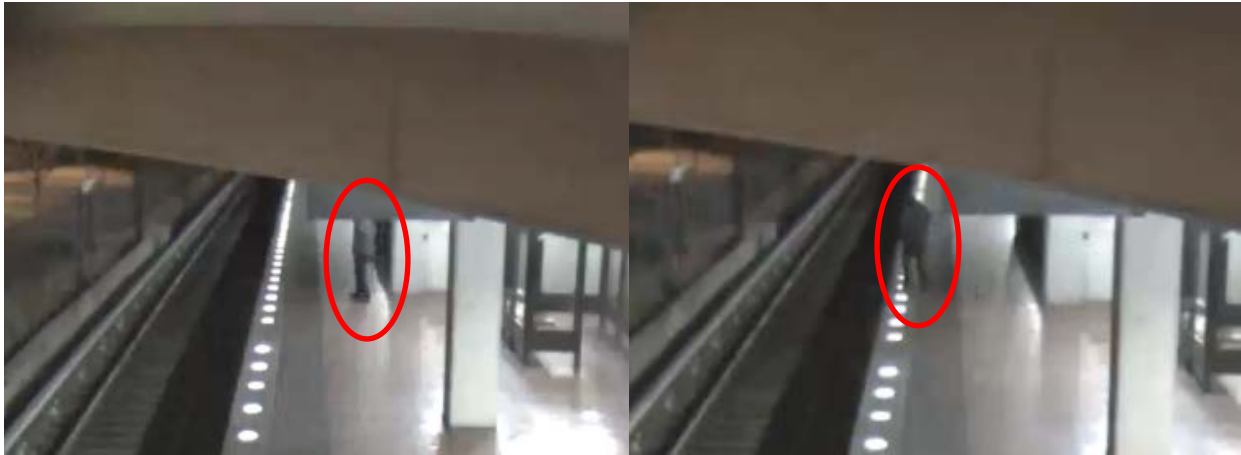


Photo 1 - Time: 23:05:19 hrs., Customer moves towards Track 1



Photo 2 - Time: 23:05:35 hrs., Customer falling off the platform and falls onto the roadway on Track 1 at the Greenbelt Station (E10).



Timeline - Playback

2/18/2019 23:54:26

Photo 3 – Train ID 591 arriving at 23:54:26 hrs.,



Timeline - Playback
2/18/2019 23:55:48

Photo 4 – Train ID 591 arrived at 23:54:48 hrs.,



Photo 5 – Forward facing camera view of the approximate area where customer fell onto the roadway.



Photo 6 – Forward facing camera view of the approximate area where customer fell onto the roadway.



Photo 7 – Forward facing camera view of the approximate area where customer fell onto the roadway.



Photo 8 – Prime Mover (PM) arriving on February 19, 2019 at 05:14 hrs.



Photo 9 – Prime Mover (PM) arriving on February 19, 2019 at 05:21 hrs.