EFFECTIVE ACCIDENT RESPONSE, INVESTIGATION AND DOCUMENTATION

CASTA Spring Conference, Greeley, CO May 18. 2018 Presented by: SWTA, GET, City of Greeley, RFTA & Cobbs-Allen



WELCOME

► Introduction

- Effective Accident Response, Investigation and Documentation or
- Accident Investigation (A/I) for transit operations
- ► Audience profile
 - Mode of service
 - ► Jurisdiction
 - ► Scale



WORKSHOP AGENDA

Panel Presentations:

- Agency requirements, approaches & procedures
- Accident response, investigation & documentation

► Field Exercise:

- Investigate simulated crash
- ► Report



TODAY'S OBJECTIVES

► To better understand:

- Transit accident investigation requirements & challenges
- Accident chain of events & response & investigation processes
- Roles & intents of transit agency & local law enforcement (or state OSHA) & importance of working relationships
- Need for information & the facts for learning & loss control
- A/I's relationship to our public transportation mission, vision & // core values

PANEL INTRODUCTIONS

- Officer Jack Drey, City of Greeley Police Dept.
- Patrick Moore, Safety & Training Supervisor, Greeley-Evans Transit
- John Filippone, Safety Manager, Roaring Fork Transit Authority
- Eddie Thomas, Risk Consultant, Cobbs Allen
- ► Walt Diangson, Lead Trainer & CSO, SWTA



EFFECTIVE ACCIDENT RESPONSE, INVESTIGATION AND DOCUMENTATION OR ACCIDENT INVESTIGATION

An Overview



THE STARTING POINT: THE MISSION



To be a customer-oriented system that provides safe, dependable and responsive services through positive interactions.



To pursue excellence and innovation in providing preferred transportation choices that connect and support vibrant communities.

Core Value: Safety is RFTA's highest priority.

A/I & THE CRISIS/EMERGENCY PROCESS



A/I DEFINITION

Accident Investigation" * during an accident, which produces:

- Vital information to identify contributing factors & root cause;
- Determination of fault & consequences;
- Learning: recommended corrective actions & controls to prevent or minimize future occurrences of the same or a similar events.
- ► Transit Accidents → Collisions/Crashes & Incidents:
 - Vehicle contact;
 - Near miss or close call incident;
 - Other incidents, property damage, crime or other losses & events.

VARIOUS TYPES OF ACCIDENTS

- Vehicle collisions/crashes: other vehicles, people & fixed objects
- Incidents: ST&F, property damage, securement, crime, confrontations, work. comp. injuries & close calls
- Measure of seriousness & response:
 - Frequency & severity
 - Major \$500 \$5,000 damage, towing, medical treatment
 - Minor "fender benders"
 - Near misses or close calls



Variety of Transit Accident Situations



























AN INCIDENT: BUS FIRES





FOCUS BUS COLLISIONS



CHALLENGES TO EFFECTIVE A/I

- Distance & time between accident scene & responders (e.g. road supervisors, law enforcement, fire)
- Accident scene cleared & removed before investigators arrive
- Environmental conditions (weather, traffic circulation)
- Staffing & training to competency
 Preparedness & communications



ELEMENTS OF A GOOD ACCIDENT INVESTIGATION PROCESS

- Documented procedures in place
- Procedures include medical attention, towing, D&A testing, insurance, legal & evidence chain of custody
- Event management
- Accurate & complete Information (not fault finding)
 - Accident report
 - Witness statements
 - Declinations for medical treatment
 - Dispositions of all involved
 - Scene & asset photographs
 - Accident scene sketch
 - Descriptions of accident "sequence of events"

ELEMENTS OF A GOOD ACCIDENT INVESTIGATION PROCESS (CONT'D)

- Identification of contributing factors
- Dispatcher communications, records & support
- Supervisory safety leadership communications, coaching
- Root causes and corrective actions are identified in timely manner
 - Investigation report & file reviewed by management, legal, safety group, accident committee & then all departments
 - Incident trends & statistical analysis conducted
 - Safety data updated & maintained
 - Training reviewed & updated
 - Related accident drills & table-top exercises conducted
 - Root causes & corrective actions implemented & communicated

ACCIDENT CHAIN OF EVENTS (COE)

COE = chain of errors = contributing factors leading to an undesired outcome

- Unsafe conditions & unsafe behaviors
- ► E.g. Tight schedules + multitasking → rushing & distractions → speeding → crash & injuries or worse
- Accident typically at end of sequence of events leading to an accident
- Interruption of COE could eliminate the accident



CHAIN OF EVENTS IN A COLLISION

Point of Possible Perception – where <u>should</u> operator have seen potential

> Operator Response – usually ½ to ¾ second (if any)

> > Initial Engagement

Point of Perception – where did operator see potential

Equipment Response – with air brakes ½ to ¾ second

Maximum Engagement – full contact

Disengagement – where separation starts

Point of Final Rest (POR)



CITY OF GREELEY POLICE DEPARTMENT PERSPECTIVE

Police Officer Jack Drey



LOCAL LAW ENFORCEMENT RESPONSE

- Sequence of events in responding
- Traffic investigative process
- ► Crime scene
- Objective What's to be determined?
- Determining speed & possible violations
- Working with transit agency



Determining the Facts



Striking Vehicle Start of Skid Speed







GET TRANSIT OPERATOR PERSPECTIVE

Patrick Moore, Safety and Training Supervisor, Greeley-Evans Transit (GET)



GET'S ACCIDENT PROCEDURES

- 1. ACCIDENT AND INCIDENT PROCEDURES
- 2. KEEP CALM
- 3. CHECK FOR INJURIES/SAFETY VEST ON FIRST
- 4. CALL BASE ONE/DISPATCH
- 5. PROTECT YOURSELF AND YOUR PASSENGERS





6. Have a safety vest on when outside your vehicle

REELEY - EVANS TRA

GET CONNECTED

- 7. Get information from passengers
- 8. Have license and registration ready
- 9. Fill out proper forms at the office

GET'S ACCIDENT PROCEDURES (CONT'D)

GAL 9000



















Cour	tesy Card	City of Greek
	ncident Report Form	result in a claim against
Operator's Name:	Vehicle #:	
Date of Incident:	Time of Incident:	

PROCEDURAL FORMS



TRANSIT OPERATOR PERSPECTIVE

John Filippone, Safety & Training Manager, Roaring Fork Transportation Authority (RFTA)



RFTA'S APPROACH TO A/I

- RFTA's adopted policies, procedures and practices
- Accident response and investigation procedures
- RFTA accident reporting forms and process
- Photographic record
- Accident scene sketch
- Operator & supervisor reports



EXAMPLES OF COLLISION EVENTS





Incident/Unusual Occurrence Report

Please complete electronically or print legibly.

INTERVIEW TECHNIQUES

WHOM DO WE INTERVIEW?

ON SCENE INTERVIEWS

ring interview at the scene, it is important for the investigator to respond to the source of other witnesses and persons. Depending on labor contract agreements, the operator , wish to have a third party present, such as a union representative. If the operator can be interviewed at the scene, his or her first impressions will probably be more accurate than testimony given at a later time.

PROCEDURES & FORMS

SMTWTFS







PHOTOGRAPHIC RECORD




















ACCIDENT FIELD SKETCHES



POINT OF IMPACT / POINT OF REST REFERENCE POINTS / MEASUREMENTS "NOT TO SCALE"





- When unable to get to scene in timely manner
- Review of vehicle operator's accident report & sketch
- Interview of vehicle operator
- Receipt of police report
- Other



SUPERVISOR'S ACCIDENT REPORT



INTERVIEW TECHNIQUES

WHOM DO WE INTERVIEW?

ON SCENE INTERVIEWS

In locating persons requiring interview at the scene, it is important for the investigator to respond to the scene as soon as possible. If the operator is available at the scene, he or she should be interviewed out of hearing distar may wish to h the scene his.

INTERVIEWING





INSURANCE PERSPECTIVE

Eddie Thomas, Risk Consultant, Cobbs Allen Insurance Brokers



INSURANCE'S APPROACH TO A/I

- Insurance for collisions & related losses
- Claim process
- Insurer's expectations & information needs
- Role of insurer in litigation or that of agency's legal services
- Risk management & loss control
 - Prevention
 - Loss minimization
 - ► Resources → OutFront 365



OUTFRONT 365 OVERVIEW

▶ Web-based

► Features a variety of risk management tools:

- Job Hazard Analysis Library
- Safety Data Sheet Management
- Certificate of Insurance Management
- Employee Training Program
- Risk Management Library
- Incident Tracking and Claims Reporting
- HR & Benefits Platform



► JHA Library

- Helps create job hazard analyses (JHAs), which are essential in HR for recruiting and hiring
- Complete library of pre-loaded JHAs

SDS Management

- Organize your safety data sheets online
- Ability to search by appearance, name and more

RISK MANAGEMENT RESOURCES



Certificate of Insurance Management Upload and manage your inbound COIs Send reminders to vendors that a COI is about to expire

Risk Management Library Includes PowerPoint programs, safety posters, policies and procedures Many of the resources are offered in Spanish as well as English





Incident Track create efficiencies with its online recording, management and analysis of incidents.

- ► Features of Incident Track:
 - Immediate reporting of all claims
 - ► Easy to access loss history
 - Ability to print OSHA logs

Type: Work-Related Injury (F Employee:	(ecol dabl	=}
Basic Information		
Additional Information	>	Who
		Site employee based; Caitlin Miley Enterprises
Claims Diary	>	Edit company information
Investigation	>	*Employee Involved: Begin typing employee involved
Save	>	
		I do not want the name of the employee on the OSHA log for this incident.
		What
		*Short Description:
		*Description:

RESOURCES: INCIDENT TRACKING

Training Track allows you to schedule online trainings and safety videos to your employees.

Once you have scheduled trainings, you may track the status and download certificates.

*Due Date:		*Employee selection:	
		Select employees by	
Training course:		Select employees by Entire Site	
Begin typing training course	~	Department Position	
🗙 Re	move	Employee Classification	
No training courses have been selected			
0 seats scheduled for a total of \$0.00			
Send employee notifications immediately			

	٩
	Online Training Library A collection of comprehensive online e-learning training courses. Quizzes are included.
	Safety Videos Nibrary of workplace safety and compliance videos.
	Policies and Procedures Documents to provide organizational direction.
	Training Materials PowerPoint programs for instructor-led training and presentations.
	Posters Dne-page safety pointers on a wide range of topics.
	Training Shorts short instructional documents and toolbox talks, perfect for group-lead safety meetings.
	QuiZZES Fest employee knowledge with quizzes that complement the training materials.
_	Links A selection of helpful websites and useful links.
	My Content /our personal directory of customized content and documents.

RESOURCES: EMPLOYEE TRAINING

WRITING AN ACCIDENT REPORT

Where?

WRITING UP AN ACCIDENT REPORT

- Be specific. Answer the 5 W's (Who, What, Where, When & Why).
- Just explain what happened. Don't editorialize, assign blame or fault.
- Draw the field sketch (note "note to scale")
- Include all photos (perpendicular of vehicles, damage & characteristics of the scene's area).

WRITING UP AN ACCIDENT REPORT

Use the correct form – accident (collision) or incident (other)
Do your report as soon as possible.
Just tell the truth.
Get names of witnesses and statements if possible.

GET	Incident Report Form	
Operator's Name:	Vehicle #:	
Date of Incident:	Time of Incident:	

COLLISION OCCURRED ON COLLISION OCCURRED ON		NUMBER		ary	JUDICIA	DISTNICT LOCA	AL REPORT NUMBER
	RFTA	NUMBER		COUNTY REPORTING DIST	RUCT BE	AT	
					MO. DAY YEAN	TIME (2400)) NCIC # OFFICER L D.
STATE HWY REL		EET / MILES	0F				
		1					

WRITING-UP AN ACCIDENT REPORT

- > Keep information's use & purpose in mind
- Include information desired by management, safety risk management, insurance, legal, training, maintenance and operations
- Include disposition of all parties (e.g. hospital destinations), vehicles (including towed vehicles)
- Vehicle operator write report in native language of proficiency, translate, certify, attach to all accident reports



WRITING-UP AN ACCIDENT REPORT

> Maintain accident & link to related agency files:

- Police reports
- Courtesy cards
- Declinations for medical attention
- Any rider & eligibility files
- Vehicle operator file
- Vehicle maintenance
- Safety complaints
- Customer safety-related complaints
- Other





FIELD EXERCISE

SUV Challenges GET Transit Bus to the intersection

FIELD EXERCISE PREPARATION

- Objective: collect needed accident information as a team of investigators or information collectors
- Form into three (3) investigating teams
- Select lead road supervisor, assign duties to team members
 - Interview vehicle operator of Vehicle 2 (V1)
 - ► Interview
- Safety vests, cameras, report forms

Diagram 1: Point of Impact

Bicyclist

Bus Stop

Ν

Time of Day: 6:30 AM MDT

Not to Scale

----Going to Change to Fit----Actual Vehicle ----Placement in Parking Lot-//

Pedestria

Bus Stop





WHERE ARE THE POI & POR?

AVAILABLE TIME:

Exercise overview and instructions	15 min.
Team preparation	10 min.
Event scene inspections and information gathering	20 min.
Team discussion and summation of findings	10 min.
(including self-examination of photos)	
 Review of all team findings (facts, no conclusions) 	15 min.
\Box Exercise closing and conclusion	10min.
Summary and closing of conference session	2 min.

► D

► C

► A

► B

►E

EXERCISE REVIEW & DISCUSSION

