FEMA Vehicle Risk Management Study













Emergency Service /ehicle Crashes



Emergency Vehicle Croshes And Struck By Incidents Are The 2nd Leading Cause of Death Among Firefighters

There Are Over 12,000 Emergency Vehicle Crashes and Over 900 Related Injuries in the Fire Service per year

Chicago Fire Department Averages Over One Vehicle **Incident Per Day**

About the Study

Preventing Firefighter Fatalities & Injuries



The Chicago Fire Department, In partnership with the University of Arizona, Northwestern and Johns Hopkins University, is undertaking a vehicle risk management study supported by FEMA to identify the causes of vehicle incidents (i.e. crashes and related injuries) in the fire service and to implement interventions and controls to reduce their frequency and severity.

The goal of this project is to improve the health and safety of all our firefighters and the general public.

Using Vehicle Data Recorders

As part of this study, we will be collecting data from vehicle data recorders (VDR) installed on all new fire apparatuses and rigs since 2009 when the NFPA recommended their use.

The data will be wirelessly transmitted from vehicles to an online server and shared with the universities and I.A.F.F. Local 2. Aggregated data without date/time will be shared with the rest of the department.



Vehicle Movement Vehicle Movement vehicle speed, occeleration (g-force), harsh braking, harsh comering, master switch crival and location



Vehicle Maintenance VDRs also transmit diagnostic and maintenance codes, to ensure timely repair and servicing of vehicles



Safer Driving Data will help us identify areas to improve safe driving and to educate drivers on safe vehicle operations









Vehicles with VDRs

Beginning April 1st, 2015, we will pilot test the use of VDR tracking on eight department vehicles. The pilot test will last for 30-90 days at which point we will equip more department vehicles with tracking transmitters. The vehicles are:

Ford Explorer Utility Interceptor Ford Explorer Utility Interceptor Ford E450 Type III Ambulance Ford E450 Type III Ambulance Spartan Gladiator Crew Cab Aerial Spartan Gladiator Crew Cab Aerial Spartan Crimson Gladiator Pumper Spartan Crimson Gladiator Pumper B582/BAT 2015 B583/BAT C168/AMB 23: 15: 2015 2013 C178/AMB E341/TRK 52: 2013 2010 51:

E343/TRK D653/ENG 42: 82: 2011 D650/ENG 2009





Data collected in this study will NOT be used to impose discipline. The data and results from this study will be used to identify areas for improving policy, education and training. We have obtained Local 2 support and will involve the union in all decisions regarding the study.

Contact

If you have any questions about the study, please contact the study team members:

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