

Project Completion Report from Fire Protection Research Foundation

(Last updated: 12/08/2016)

Project: **ENHANCING INCIDENT COMMANDER COMPETENCIES FOR MANAGEMENT OF INCIDENTS INVOLVING PIPELINE AND RAIL CAR SPILLS OF FLAMMABLE LIQUIDS**

Actual accomplishments to the objectives for this project:

- Project technical advisory panel was formed, consisting of representatives from the key stake holder groups – **October 2015**
- Request for Proposal (RFP) submitted for project contractor selection – **October 2015**
- Project technical panel (PTP) meeting – for the contractor selection – **November 2015**
Submittals received for the RFP were all reviewed by the PTP and teleconference meeting was conducted for contractor selection.
- Project technical panel and contractor meeting – **January 2016**
Blended meeting during the Hazmat TC meeting. Those in the panel who participated in the Hazmat TC meeting, met in person and those who did not, joined this meeting through teleconferencing. Contractor provided an overview of the literature resources compiled for the project, clarified the scope of the guidance document and also discussed the timeline for the project deliverables.
- RFP was submitted for electronic tool development contractor – **February 2016**
- Based on the recommendation from Panel about the submittals – contractor selection was made for electronic tool development – **March 2016**
- Mid-term report submitted on **April 8th 2016**.
- First draft of guidance document review meeting was conducted – **April 2016**.
Teleconference meeting was conducted to take the feedback from the project technical panel on the revisions required in the first draft.
- Final review of guidance report and first review meeting for electronic app tool was conducted – **May 2016**
Focus of this teleconference meeting was to finalize the guidance report by taking feedback from panel. The same meeting also reviewed the first look of the app with layout of the interface and the information needed to be included in the app.
- Final reports published - **July 2016**
 - [High Hazard Flammable Liquid Train \(HHFT\) On-Scene Incident Commander Field Guide](#)
 - [Liquid Petroleum Emergencies On-Scene Incident Commander Field Guide](#)
 - Project webpage with deliverables: www.nfpa.org/hazmatic
- Second review meeting for the electronic application tool – **July 2016**

This review meeting clarified the app contents and sought feedback from panel for any additional contents to be added in the app. Also it explored the app names considering the contents of the app.

- App name was decided and first test version of the app in android was released – **August 2016**

HAZMAT FLIC (Flammable Liquid Incident Command) app was chosen as the app name based on the project technical panel feedback. The contractor produced a trial version of the app in the android platform and the feedback was provided for the same.

- Second trial version of HAZMAT FLIC in android and first trial version of app in iOS version was released for testing – **September 2016**
- HAZMAT FLIC app released – **October 2016**

NFPA HAZMAT FLIC app (iOS and android) provides the on-scene incident commander with pertinent guidance materials including two Fire Protection Research Foundation reports, a multi-tiered size-up checklist, and a collection of additional resources for managing emergency responses for high hazard flammable train and liquid petroleum pipeline emergencies. The app can be downloaded for free from [Google Play store](#) and [Apple store](#). The app was officially released during the HAZMAT IC workshop conducted at NFPA on November 2 & 3, 2016.

- Two workshops were conducted on **November 2 & 3, 2016** at NFPA Conference Center, hosting 40 Subject Matter Experts (SMEs).
 - HAZMAT Incident Commander workshop to discuss the tools
 - Key Performance Capabilities and Competencies for High Hazard Incident Commanders
 - Workshop proceedings are available at www.nfpa.org/hazmatic - December 2016.
- Final completion report for the project was submitted to PHMSA, DOT – **December 2016**

The overall project deliverables are:

Reports:

- High Hazard Flammable Liquid Train (HHFT) Incident Commander On-Scene Guide
- Liquid Petroleum Emergencies Incident Commander On-Scene Guide

Electronic mobile application tool:

- HAZMAT FLIC app (iOS and Android)

Workshop proceedings:

- HAZMAT Incident Commander workshop
- Key Performance Capabilities and Competencies for High Hazard Incident Commanders