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**1.** 14.2-FA1: Commercial Space Vehicle Tracking Using 1090 MHz ADS-b

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

Commercial space vehicles licensed by the FAA include launch vehicles, re-entry vehicles and manned high altitude balloons. Operations of commercial space vehicles will become increasingly frequent and then routine in various regions of the US. The primary objective of this research is to ensure no degradation to both the safety and efficiency of the National Airspace (NAS) for other N ...

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**2.** 14.2-FA2: 14.2-FA2 Management System Display to Track Emergency Response Vehicles and Mutual Aid During a Crash Response

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

Disaster response at airports involves integration of airport fire rescue with emergency personnel and equipment from the surrounding community. The current response model is built upon the concept of mutual aid. As such, airport command authorities face the task of coordinating and tracking multiple disparate fire rescue units and personnel. Technology could provide an integrated command and cont ...

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## 3. 14.2-FH1 : Decentralized, Public, and Mobile-Based Sidewalk Inventory Tool

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

Communities throughout the U.S. are increasingly encouraging walking for transportation and recreation in order to meet a range of safety, health, equity, sustainability, and other goals. One way to accomplish this is by actively working to fill gaps in the pedestrian network and to improve sidewalks or other pedestrian pathways that have fallen into disrepair. A significant challenge to working m ...

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## 4. 14.2-FH2: Parking-Cruising Caused Congestion & Targeting Public Mitigation Investments

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

Identifying the Problem  It is a common perception and concern among city mayors and transportation professionals that an enormous amount of time and fuel is wasted by motorists circling or “cruising” for free or underpriced on-street parking.  As an example of such concern, over 70 city parking managers and senior transportation policy officials came to San Francisco in ...

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## 5. 14.2-FH3: Modular Building Block Approach to Construction Assembly in Place Mini-Roundabouts

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

Mini-roundabout is a single-lane roundabout with a traversable central island and splitter islands. The inscribed circular diameter of mini-roundabout ranges from 50 ft to 90 ft. This intersection design is suitable for junctions of 2-lane and/or 3-lane high volume collector roads. A well designed mini-roundabout can deliver more than twice the traffic handling capacity when compared to intersecti ...

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## 6. 14.2-FM1: Driver Fatigue and Distraction Monitoring and Warning System

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

Driver fatigue and driver distraction are recognized as a continuing safety issue for commercial drivers.  Driver fatigue is a major cause of CMV crashes, but fatigue causes are not well understood.  Distraction-affected crashes were reported in ten percent of fatal crashes, 18 percent of injury crashes, and 16 percent of all motor vehicle traffic crashes in 2012 according to the Nationa ...

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**7.** 14.2-FT1 : Technology to Improve upon APC Data Counting that will Provide Better Correlation to Service Plan

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

Transit agencies traditionally face major issues in rider system utilization and travel patterns. First, it has been a challenge to accurately count the number of riders that board and alight along stops or stations on a transit route. In the vast majority of transit agencies, this has been traditionally accomplished through “ride checking;” a manual process of counting riders ...

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**8.** 14.2-NH1 : Device to Address the Competing Needs of Ensuring Lockability of Seat Belts and Mitigating Entrapment Risk in Mis-Use Conditions

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

The Federal Motor Vehicle Safety Standard (FMVSS) No. 208, “Occupant crash protection,” requires that passenger seating positions of passenger cars and some other passenger vehicles have a seat belt assembly whose lap belt portion is lockable so that the seat belt assembly can be used to tightly secure a child restraint system. FMVSS No. 208 further specifies that the means to lo ...

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**9.** 14.2-OS1: Using alternative energy to reduce greenhouse gas production in the transportation sector

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

The surface transportation sector is one of the largest contributors to the production of greenhouse gases. The USDOT’s Zero Emission Transportation Initiative is looking to push the transportation sector greenhouse gas production to zero by 2050. Alternative energy sources used to power vehicles have the potential to significantly reduce vehicular production of greenhouse gases.& ...

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**10.** 14.2-PH1: Develop and demonstrate new non-destructive evaluation methods to quantify remaining strength of line pipe steel and or pipeline fittings

Release Date: 07-14-2014Open Date: 07-14-2014Due Date: 09-15-2014Close Date: 09-15-2014

Pipeline and Hazardous Materials Safety Administration The energy transportation network of the U.S. consists of over 2.6million miles of pipelines. That’s enough to circle the earth about 100 times. These pipelines are operated by approximately 3,000 companies, large and small. U.S. operators transport almost two-thirds of the Nation’s energy. According to the U.S.

Energy Informati ...

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