Emergency Response and Intelligent Transportation Systems Study

Study Status Update
October 29, 2014
Agenda

- Introductions
- Study Locations Review
- Emergency Response Analysis Status
- Land Use and Roadway Network Assumptions
- Intelligent Transportation Systems Overview
- Study Schedule
Recap of Study Progress

• Draft list of study locations revised to 15 locations
• Response types defined for each location
  ➢ Fire
  ➢ ALS
  ➢ HazMat
  ➢ Technical Rescue
• Confirmed transportation projects for 2020 / 2035
• Confirmed planned development in Tideflats
# Study Locations and Response Type

<table>
<thead>
<tr>
<th>ID</th>
<th>Location Name</th>
<th>Fire</th>
<th>ALS</th>
<th>HazMat</th>
<th>Tech Rescue</th>
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Emergency Response Analysis – Existing Conditions

Tideflats Area Study Locations
TFD Stations 4 Minute Travel Areas

Legend
- Final Study Locations
- Travel Restrictions
- TFD Stations

TFD Station 3
Biz Ctr
Husky Term
PSE LNG
Targa
PNW Term
S&SA
US Oil
NWIW
Bullfrog Derail
Tribal Comm.
TFD Station 12
Tribal Youth Ctr

TFD Station 1
NU Star
Pulp Mill
APMT
NIW Dee

October 24, 2014
Emergency Response Analysis – Existing Conditions
Emergency Response Analysis – Visit Summary

- 15 study locations
- Department interviews
- Port Security
Land Use Assumptions

- 10,400 additional jobs forecast for the Tideflats area by 2040
- Minimal population growth
- Based on updated land use allocations
Roadway Network Assumptions

Key 2020 Projects
• Port of Tacoma Rd Interchange
• Portland Ave off-ramps from SR-509
• Milwaukee Way vacation
• HOV lanes along I-5
• Puyallup Avenue bridge
• 11th Street viaduct to be tested for sensitivity

Notable 2035 Projects
• SR-167 connection
• D Street ramps
• 54th Avenue Interchange
• Street vacations at Alexander and Maxwell
Intelligent Transportation System

- Goals and Needs of ITS implementation
- ITS Strategies:
  - Information Management
  - Traffic Management
  - Incident and Emergency Management
  - Commercial Vehicle Operations
Information Management

Data Collection and Communications

- Physical infrastructure
- Closed Circuit Television (CCTV)
- Vehicle detection and classification
- GPS real-time
- Data sharing
- Center-to-Center integration
- Data storage

Image sources: SDOT, ITS International
Traffic Management

Traveler Information

- Variable Message Signs (VMS)
- Congestion mapping
- Highway/Rail Coordination
- Speed Management
- Video Enforcement
- Terminal Wait Times
Traffic Management

Operations and Maintenance

• Signal control software/hardware
• Signal coordination
• Adaptive Signal Control
• Emergency Vehicle Pre-Emption
• Variable Speed Limits
• Reversible Lane Operations

Image sources: FHWA, Manitoba.gov, WSDOT
Emergency and Incident Management

- Data and video sharing (Police, Fire, Port, WSDOT, City, etc.)
- Emergency vehicle automated routing
- Flood and other warning systems
- Emergency Response Plans
- Disaster response and evacuation

Image source: WSDOT
Intelligent Transportation System Goals and Needs

• What current transportation or emergency response issues could be addressed with ITS?
• How do you want ITS to function?
  ➢ Infrastructure
  ➢ Roles and Responsibilities
  ➢ Agency Coordination
  ➢ Implementation and Funding
  ➢ Operations and Maintenance
Study Schedule

- Next meeting
- Future emergency response analysis
- Stakeholder outreach
- ITS Plan development