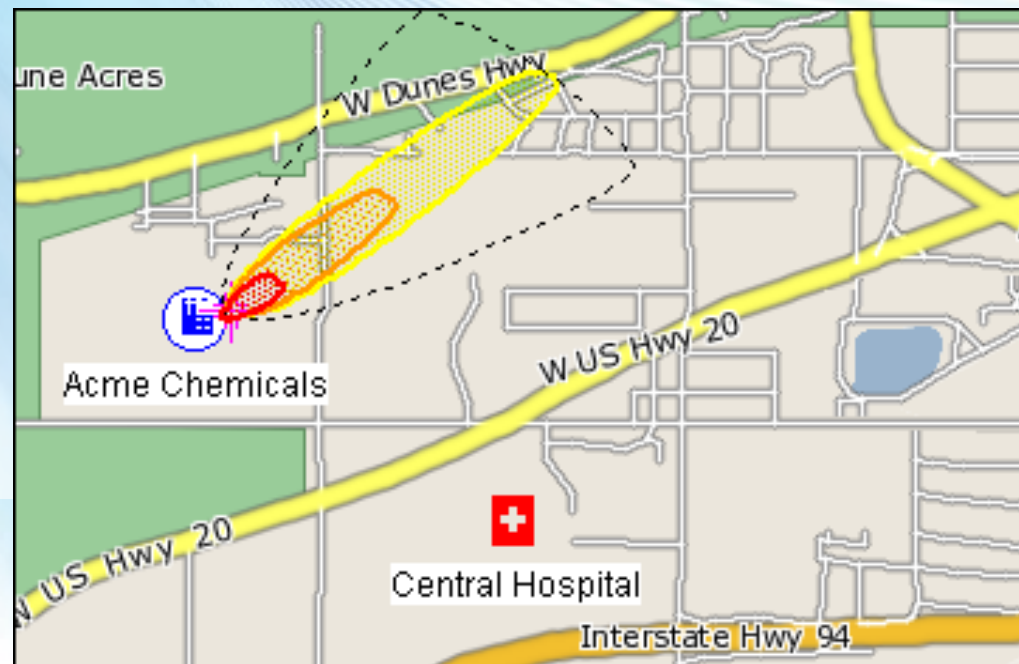# Plume Modeling In WebEOC

# Plume Model?

**ALOHA (Areal Locations of Hazardous Atmospheres)**

- Model chemical releases (Material Properties/Spill Size/Weather,Time)
- Estimate how a toxic cloud might disperse
- Fire/explosion scenarios
- Estimate threat zone
- ArcGIS compatible
- Mapper compatible



**intermedix**

CRITCHLOW

# More Than One Way to Skin the Cat!

- ## Mapper ERG Plume Model Tool
  - **Rapid Approximation in the field**
  - **Typically used in the first half hour to hour**
  - **Develop initial response boundary pre-plume data provision**

- ## Publish Data to Mapper as a Rest Service
  - **WMS, ARC GIS, or KML Feed**
  - **Just paste in the URL, as data changes mapper updates**
  - **Multiple hot, warm cold zones dynamic**

- ## Upload ALOHA (and other plume) data directly

**intermedix**

CRITCHLOW

# Mapper ERG Plume Model Tool

- Choose Material/Type from fixed list
- Spill Size Estimate (small large)
- Wind Direction (0-360)
- Night or Day
- Select Location
- Run Demographics
- Immediate Field Response Before GIS/Plume experts online

**intermedix**

CRITCHLOW

# Publish Data to Mapper as a Rest Service

- Add directly within Mapper
  - Only visible by those in the room

- Add as an administrator
  - Show to all users who are not restricted

- Base Map/Live Feed
  - Cut and Paste URL
  - Proxy URL if needed

  Sky is the limit on parameters/functionality
  Shape Files Hosted on Esri ArcGIS, GeoServer etc.

**intermedix**

CRITCHLOW

# Upload Shape Files Directly

- Browse to Zipped Shape File(ALOHA/GIS)
- Click Import
- Visible only to those in the room
- One file with time progression, or multiple files with multiple times.
- Great if you lose connectivity to your GIS servers or want to add shape files from another agency without getting GIS involved…

**intermedix**

CRITCHLOW