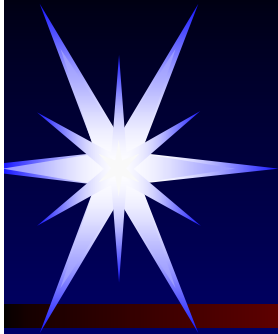


Special Operations Response to Hazardous Materials Incidents on the Highway



Presented By
Lt. Tom Berninger
Sarasota County Fire Department



Sarasota County Fire Department Special Operations Assets and Capabilities

- ❖ 54 Member Type II WMD/Haz Mat Team
- ❖ State deployable under the Statewide Emergency Response Plan (SERP).
- ❖ 8 team members deployable immediately upon dispatch.
- ❖ Balance can be recalled within 20 minutes.
- ❖ Self-sustained for 72 hours.

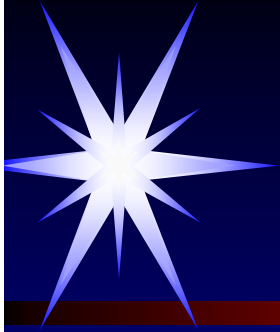




Four Missions of Special Operations

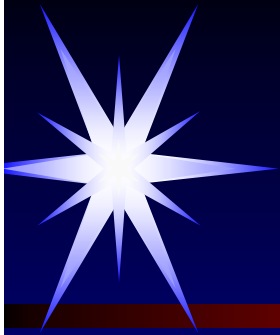
- Hazardous Materials Response (28%)
- Heavy Vehicle Extrication (17%)
- Technical Rescue (1%)
 - Confined spaces
 - Trench / collapse
 - High angle
- Support of Department Operations (54%)
 - Structural fires
 - First response medical when others not available





Squad 8 – First Out

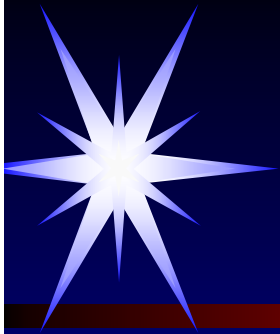




Squad 8 / Haz Mat Equipment

- ❖ *Four Gas Detectors-Two Types*
- ❖ *Photo and flame ionization detectors*
- ❖ *Safe Site MTX Kit*
- ❖ *Radiological detection & identification*
- ❖ *Travel IR (infrared)*
- ❖ *25 Bags Absorbent (oiliphilic/hydrophobic)*
- ❖ *150 Feet Absorbent Boom*



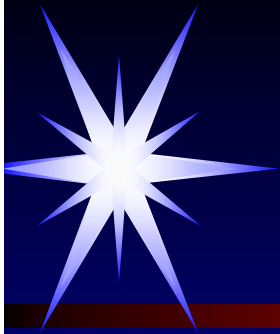


Squad 8 Equipment

ITX Four Gas Detector

- O₂ Levels
- CO Levels
- H₂S Levels
- % Flammability
Lower Explosive
Limits



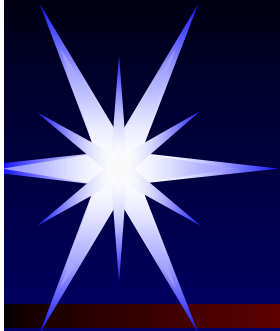


Squad 8 Equipment

Safe Site MTX

- Stand Off Detection
- Multiple Detectors
- SafeCom Base Unit
- 2 Mile Data Transmission
- 4 Detector Units



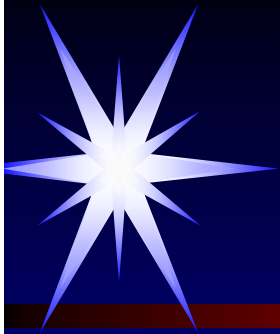


Squad 8 Equipment

MSA Sirius 5 Gas Detector

- % Flammability/LEL
- Oxygen Levels
- H2S Levels
- CO Levels
- Photo ionization for Volatile Organic Compounds (VOC)
- Bluetooth Belt Bridge to Safe Site Units



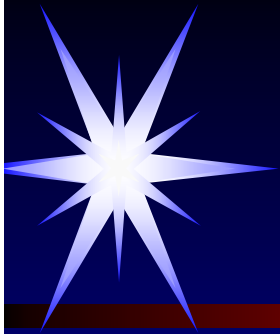


Squad 8 Equipment

Identifinder

- Gamma Spectroscopy Instrument
- Identifies Specific Isotopes
- Internal Database
- Also Measures Dose Rate
- Computer Downloadable Data



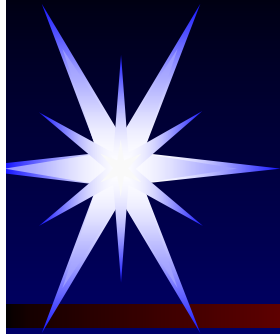


Squad 8 Equipment

Travel IR

- **Infrared Technology**
- **Identifies Liquids/Solids**
- **Extensive Chemical Library**
- **New Compact Model Available/Receiving in Early 2009**

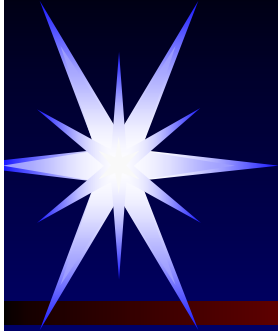




Fire Station 8 Supplies Cache

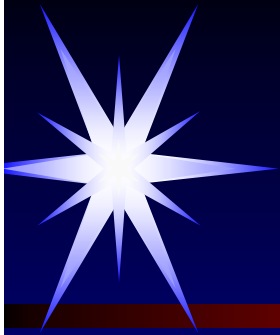
- ❖ 200 Gallons Class B Foam (5 gal. buckets)
- ❖ Two Additional Pallets Bagged Absorbent
- ❖ 750 Feet Additional Absorbent Boom
- ❖ Additional Overpack Drums
- ❖ Reserve Unit/Squad 9
- ❖ Tow Vehicle and Support Trailers





Haz Mat Support Trailer

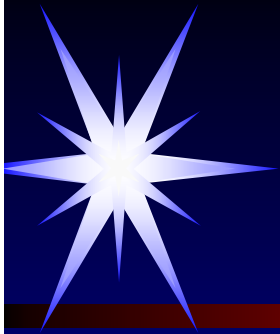




Haz Mat Trailer Equipment

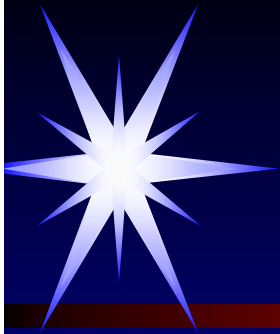
- ❖ Sustainment Equipment and Supplies.
- ❖ Bulk Personal Protective Equipment for Repeated Entries.
- ❖ “People Mover” (Kubota Diesel)
- ❖ Supports a “Base of Operations”
- ❖ Food, Sundries, Sleeping Supplies to Support 72 Hours.





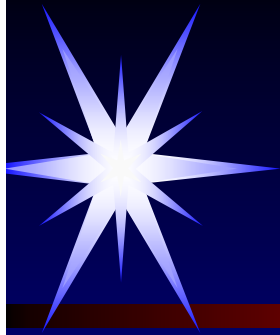
Kubota “People Mover”





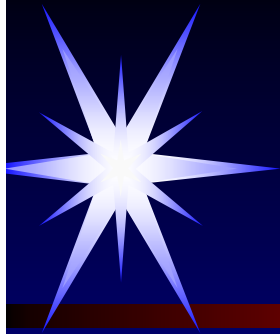
Additional Trailers





Special Operations Tow Vehicle

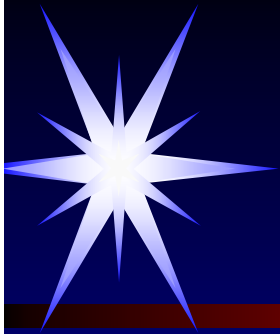




Initial Response to Highway Incidents

- ❖ Known or Unknown Haz Mat, Use Emergency Response Guidebook (ERG)
- ❖ Command Established at All Incidents
- ❖ Command Usually at a Fixed Position
- ❖ If More Than One Jurisdiction/stakeholders Involved, Unified Command Will Be Used



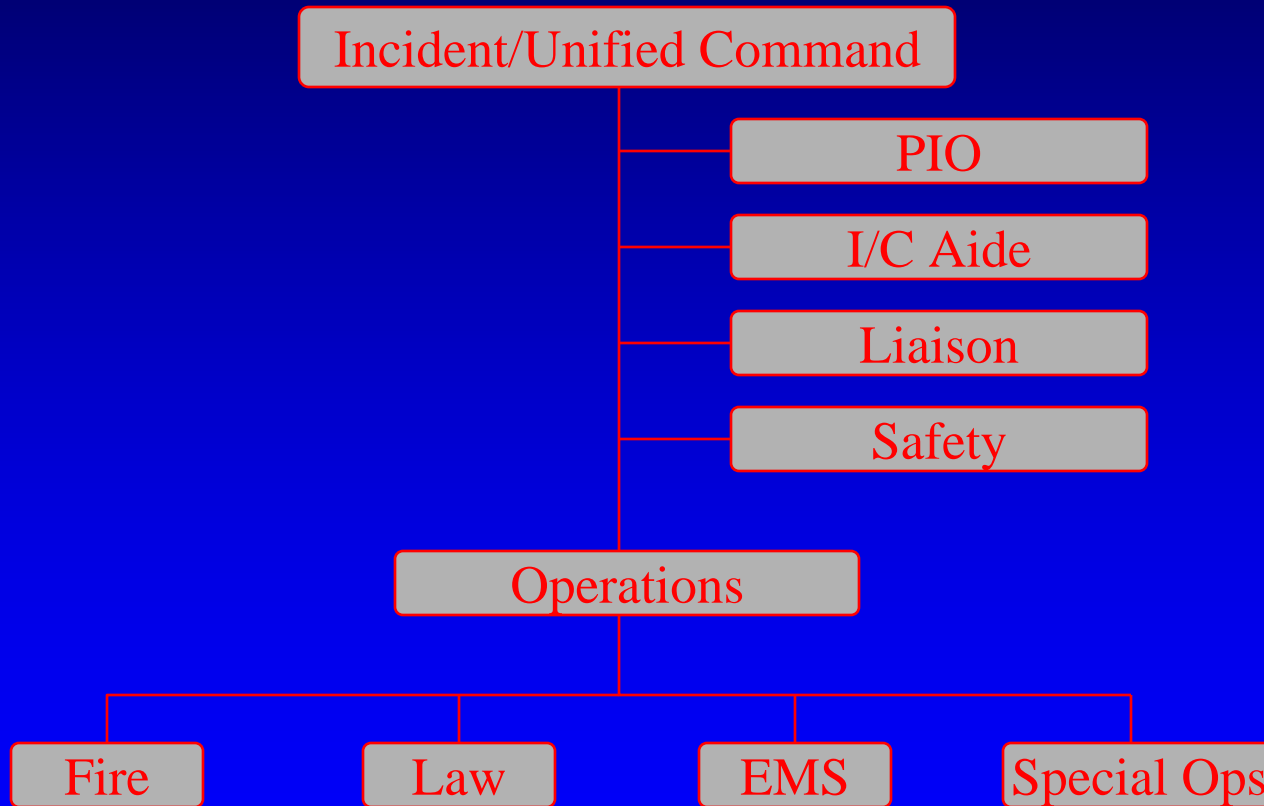


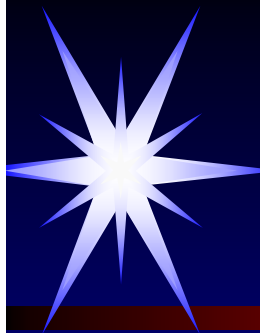
The Incident Commander

- ❖ Responsible for Overall Incident Management
- ❖ Assess Incident Priorities
- ❖ Determine Strategic Goals/Tactical Objectives
- ❖ Develop Incident Action Plan
- ❖ Manage Incident Resources and Coordinate Outside Agencies
- ❖ Coordinate Overall Emergency Activities



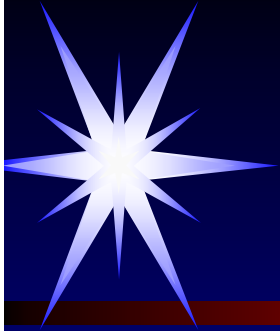
Command Structure





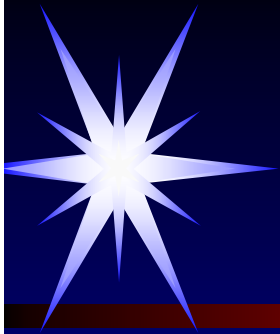
Tanker Accident/US 41 & 681





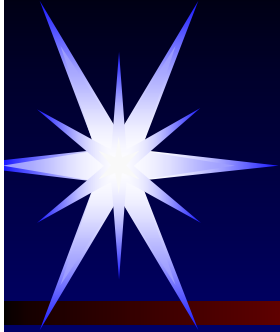
Command Post





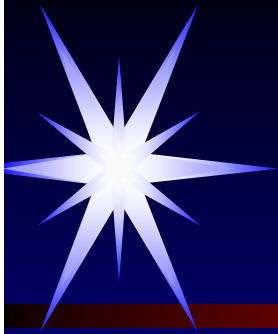
Absorbent Boom Applied





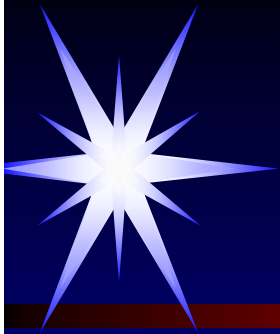
Haz Mat Operations





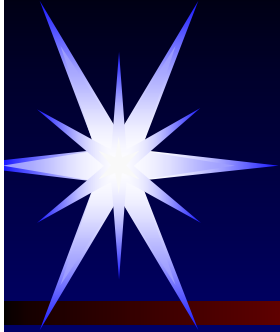
Product Transfer/Foam Protection





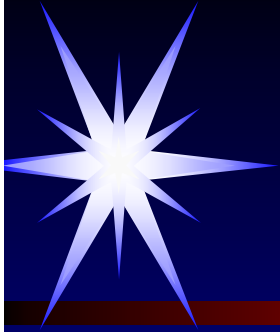
Vehicle Recovery





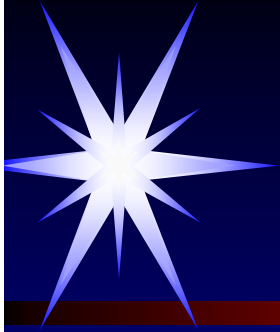
I-75 Gasoline Tanker Fire





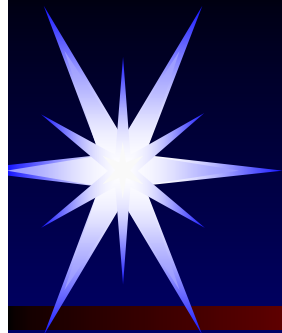
Vehicle Recovery





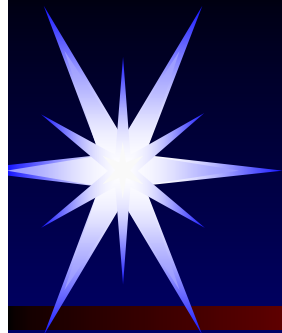
Bridge Fire Damage





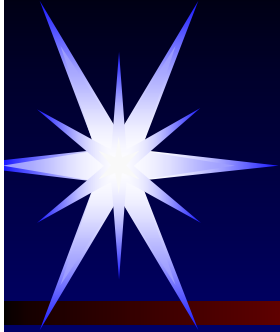
Concrete Spalling Under Bridge





Presented by Dog and Truck Productions





Thank You

Questions?

Sarasota County Special Operations Units and Personnel are
Located at 6750 Bee Ridge Road

Sarasota Fl. 34241

Coordinator Direct Phone: 941-232-1992

