Basic Fireground Monitoring

- What is monitoring?
  - Characterizing an atmosphere using instrumentation
  - Helps determine presence and/or concentration of hazardous materials
  - Recon vs. Operational

- What is leak detection?
  - To determine if and in some cases where a leak has occurred in a system

- Common fireground incidents requiring monitoring
  - Natural gas odor
  - CO detector activation
  - Liquid fuel spill
  - Normal fireground operations

- Basic fireground monitoring equipment
  - PH paper
    - Discuss uses
  - Sensit
    - Discuss what is does in relation to 4-gas/LEL
  - Single gas meter
    - HCN
  - 4-gas meter
    - LEL, O2, H2S, CO
    - Discuss basic operation
    - Discuss start-up procedures and fresh air calibration
    - Discuss bump testing vs. calibration
  - PID
    - Discuss uses
  - Area Monitoring
- Basic odor investigation walk-through
  o PPE needs
  o Required monitoring needs
  o Back-up line
  o Notification of gas company
  o 4-gas for area monitoring
  o Sensit for detection of concentration around doorways and windows