

	<b>OFFICE OF STATE FIRE MARSHAL</b> <i>REGIONAL HAZARDOUS MATERIAL EMERGENCY  RESPONSE TEAMS</i> <b>STANDARD OPERATING GUIDELINES</b>		<b>Number: T-007</b>  <b>Adoption Date:  October 27, 1993</b>  <b>Review/Revision Date:  April 5, 2005</b>
	OSFM Approved: Signature on file at OSFM _____ Date _____ Nancy J. Orr, State Fire Marshal	Signature on file at OSFM _____ Date _____ Susan J. Otjen, Operations Manager	
<b>SUBJECT: Reconnaissance Procedures</b>  <b>OBJECTIVE: To Describe the Procedures to Be Used by the Reconnaissance Team to Perform Reconnaissance at Hazardous Materials Incidents.</b>			

**I. SCOPE**

This guideline establishes procedures for reconnaissance at hazardous materials incidents by State Hazardous Materials Emergency Response Teams (HMERTs).

**II. OFF-SITE RECONNAISSANCE**

Initial observations and monitoring: At responses in which the hazards are largely unknown, Off-Site Recon is performed to make visual observations to gather available and important information without exposing individuals to hazard zones.

A. The Recon Team consists of a minimum of two team personnel. They have the responsibility to approach from up-wind, up-hill, and with operating air monitoring equipment. They scan the scene with binoculars and verbally announce any observations. The relay of Recon information should begin with Resource and the Group Supervisor/Team Leader monitoring radio transmissions of the Recon team during off-site recon.

1. The elements of off-site reconnaissance include:
  - a. Object/product of concern
  - b. Labels and placards
  - c. Action or reaction of products
  - d. Street and road layout
  - e. Wind direction and speed
  - f. Structures
  - g. Drains, curbs and gutters
  - h. Waterways and wetlands
  - i. Terrain and grades
  - j. Overhead obstructions

- k. Victim/body location & condition
  - l. Locations of any established control zones.
- 2. Monitoring for hazardous conditions is to be initiated as part of off-site reconnaissance to ensure Recon team avoids entry into a hazard zone. This monitoring assists in the establishment of proper control zone boundaries.
  - a. Monitoring ambient air for:
    - 1. Lower Explosion Limits (LEL)
    - 2. Oxygen deficiency (O2)
    - 3. Carbon Monoxide (CO)
    - 4. Other expected conditions
  - b. Radiological
- 3. The Recon team develops a sketch of the incident scene and should include as many of the above elements as available. Also note:
  - a. Placards, labels, markings on containers
  - b. Markings on transportation vehicles
  - c. Product name
  - d. UN or STCC number
  - e. Types and numbers of containers, buildings or dump sites
  - f. Leaching and/or runoff
  - g. Biological indicators:
    - Dead vegetation, animals, fish or insects
  - h. Unusual odors and other conditions
  - i. Locations for point of entry, decon corridor, emergency exits, medical triage, etc.
- 4. Conduct interviews as needed.
- 5. Collect any other available information that may indicate or characterize on-site conditions.
- 6. The Recon team relays all information gathered to the HazMat Group Supervisor/Team Leader and Resource. Group Supervisor/Team Leader and other team members review information obtained through off-site reconnaissance, incident briefing with IC and first responders and develop the Team Action Plan.

### **III. ON-SITE RECONNAISSANCE**

When off-site reconnaissance does not provide complete information necessary to develop viable Mitigation Objectives, on-site reconnaissance may be necessary.

On-site recon is performed in the Hot Zone and necessitates the establishment of a "Team Action Plan" including Safety Objectives, medical monitoring, monitoring for hazardous conditions, proper PPE, Entry/Back-up , Decon, etc.

On-site Recon allows for the collection of more specific information such as:

- a. Types of containers and impoundment
- b. Numbers and quantities of materials
- c. Types of materials
- d. Condition of containers
- e. Condition of pipes or storage containment
- f. State of various disrepair
- g. Physical condition of the materials
  1. Solids, liquids, gases, etc.
  2. Color, turbidity
  3. Behavior - foaming or corroding
  4. Evidence of reactivity
  5. Leaks or discharges from containers, tanks, plumbing, ponds, vehicles, etc.
- h. Specific needs for mitigation efforts.
  1. Tools
  2. Supplies