POLICY: HAZARDOUS MATERIAL RESPONSES

PURPOSE

To provide guidance in response to a hazardous materials incident, including the establishment of command, product identification, and site security.

HAZARDOUS MATERIALS PROCEDURE

Fire Department personnel may perform limited attempts to mitigate hazardous material spills or releases. Actions taken shall not exceed those classified as “First Responders Operations Level” in 29 CFR Part 1910 (Dept. of Labor).

Specifically, fire department personnel shall:

1. Understand what constitutes a hazardous material and what are the risks associated with them at an incident.

2. Understand potential outcomes associated with an emergency incident when hazardous materials are present.

3. Be able to recognize the presence of a hazardous material.

4. Be able to identify a hazardous material.

5. Be able to understand the role of fire department personnel included in this procedure.

6. Be able to implement appropriate site control measures.

7. Be able to use the United States DOT Emergency Response Guidebook.

8. Be able to recognize the necessity of additional resources required for mitigation. (See attachments C , C-1)

Hazardous material spills/releases shall be handled by qualified firms and personnel as identified in 29 CFR Part 1910. The fire chief, or in his absence, the incident commander, will determine the appropriate mitigation request.

Terminology

Hot Zone – The perimeter surrounding the immediate hazard area.

Warm Zone – The perimeter adjacent to and upwind of the hot zone. The area where decontamination and support activities take place.

Cold Zone – Adjacent to the warm zone. The cold zone is where the command post and staging area would be located.

Emergency Response – Occurs when hazardous materials are involved in an uncontrolled release and the fire department is notified.

Transportation Incident – Incidents involving transport vehicles that carry hazardous materials as cargo.

Fixed Site Incident – Incidents involving hazardous materials at a site used for storage, manufacturing, processing, or handling of a hazardous material.

Hazardous Material Incident – A sudden, unexpected spill, leak, fire, explosion, accident, or similar occurrence which involves the transportation, storage, handling, manufacturing, sale, use, disposal or processing of a hazardous material.

In-Place Shelter – Is used when evacuating the public would cause greater risk than staying where they are, or when an evacuation cannot be performed.

Evacuation – Removal of occupants from an area to protect them from a life safety threat, such as a vapor cloud or explosion. For protection from toxic vapors, evacuation routes should be made from a crosswind direction if possible.

Incident Classification

A. Minor Incident
   1. Transportation
      a. No evidence of a container leaking.
      b. Transport vehicle not overturned.
      c. Product transfer not required.
      d. Traffic not rerouted.
   2. Fixed Site
      a. No outside assistance required.
      b. No evacuation outside of incident site.

B. Alert
   1. Transportation
      a. Vehicle carrying hazardous materials has overturned.
      b. Transfer is necessary.
      c. Traffic rerouted.
   2. Fixed Site
      a. No outside assistance required.
      b. No evacuation outside of incident site.

C. Site Emergency
   1. Transportation – site evacuation necessary.
   2. Fixed Site – evacuation/in place sheltering required for entire facility, with or without fire.

D. Community Emergency
   1. Transportation – evacuation of affected community is required.
   2. Fixed Site – evacuation of affected community required.

Incident Response

Responding to a hazardous material incident presents fire department personnel with unique hazards. In order to function effectively and limit danger to responding personnel, the following shall be considered when responding to a reported incident:

1. Review dispatch response.
2. Stage up wind, up hill, up stream and out of any smoke, liquid or vapor of the incident.
3. Keep a safe distance away with apparatus and personnel until product is identified.
4. Monitor any additional information or changes in the situation.

Arrival At An Incident

Several primary objectives must be met by the first arriving unit(s) at a hazardous material emergency:

1. Establish command.
2. Stage all responding unit(s) and personnel in a safe area.
3. Determine the location and status of victims.
4. Identify the material(s) involved.
5. Contact the shipper, CHEMTREC, etc. for assistance.

If the Incident Commander determines the need exists for defensive mitigation actions by fire personnel, he/she may need to ask Central Dispatch for a reactivation for a full company response of all available personnel.

ONLY firefighters with a minimum of Hazardous Materials Operations Level certification may be used on any hazardous material scene.

Scene Actions

Upon arrival on the scene and based on the information that is available, the Incident Commander, Operations Officer and Safety Officer, shall develop and implement an action plan. This action plan shall be consistent with the goal of protecting our own personnel first, along with the citizens and visitors in our jurisdiction, while attempting to contain property and environmental damage. The action plan shall address the following areas as required:

1. Establish a perimeter using information from the DOT Guidebook and current weather conditions.
2. Evacuate or in/place shelter of persons at risk.
3. Maintain maximum possible safety of responding personnel.

Hazardous materials consist of materials that meet one or more of the following criteria:

Flash point less than 100 degree F
Toxic
Explosive
Ph less than 2.0 (acid)
Ph greater than 11.0 (base)
Reactive
Oxidizers
Etiological
Radioactive
Or any other material placarded or labeled.

Personnel should use the “Hazardous Materials Reminder” sheet along with the “Haz-Mat Incident Notification Form” – Bulletin 21 Fire Marshall Division, while commanding a Hazardous Material Incident.

ATTACHMENT A

HAZARDOUS MATERIAL INCIDENTS

GENERAL INFORMATION

Date:_____ Time:_____ O.I.C._____

Transportation Incident: _____ Location:_____

Fixed Site Incident:_____ Location:_____

Building Representative on Scene? Y___ N___ Name:_____

Weather Conditions:_____ Wind Direction:_____

Nature of Incident (spill, leak, fire, etc.):_____

_____

Site Conditions:_____

_____

Recommended Access/Travel Routes to Incident:_____

_____

Minor Incident:____ Alert:____ Site Emergency:_____Community Emergency_____

CHEMICAL INFORMATION

Chemical Names of Involved Materials:_____

_____

Trade Names of Involved Materials:_____

_____

D.O.T. Placard Numbers:_____

D.O.T. Guide Numbers:_____

Container Types:_____

Size:_____ P.I.N._____

Condition (ruptured, leaking, intact, etc.):_____

Quantity of Materials Involved:_____

Dangerous Properties:_____

_____

Manufacture/Shipper:_____

SITE CONDITION INFORMATION

Est. Population Exposed:_____ Accessibility:_____

Topography:_____ Water Availability:_____

Evacuation Required: Y____ N___ Distance:_____

Number of People Affected: _____ Evacuees Sent To:_____

EMERGENCY SERVICES INFORMATION

Command Post Location:_____

Staging Area's / Location's:_____

Entry Perimeter Established (area's. location's, distances):_____

NOTIFICATIONS / RESOURCES CALLED (ENTER TIME)

AHPD _____ EMS_____ AHDPW_____ City Mgr._____ MSPFM_____ Chemtrec_____

TFD Special Response Unit_____ OCRC_____ DNR_____ EPA_____ OCDC_____

Edison_____ Consumer Power_____ Manufacturer_____ Shipper_____

Others:_____ Time:_____

_____ _____

_____ _____

OUTSIDE AGENCY COORDINATORS

Agency:_____ Coordinator:_____

Agency:_____ Coordinator:_____

Agency:_____ Coordinator:_____

Agency:_____ Coordinator:_____

Agency:_____ Coordinator:_____

Agency:_____ Coordinator:_____

ATTACHMENT B

HAZMAT OPERATIONS CHECKLIST

_____ Position HAZMAT Vehicles
- Sufficient isolation distance (200ft. minimum)
- Upwind
- Use chart in DOT guidebook for references

_____ Coordinate with fire operations/incident commander for situation report

_____ Obtain available hazard information & relay to data/research
- Shipping papers
- Haz-alert
- MSDS
- Facility personnel

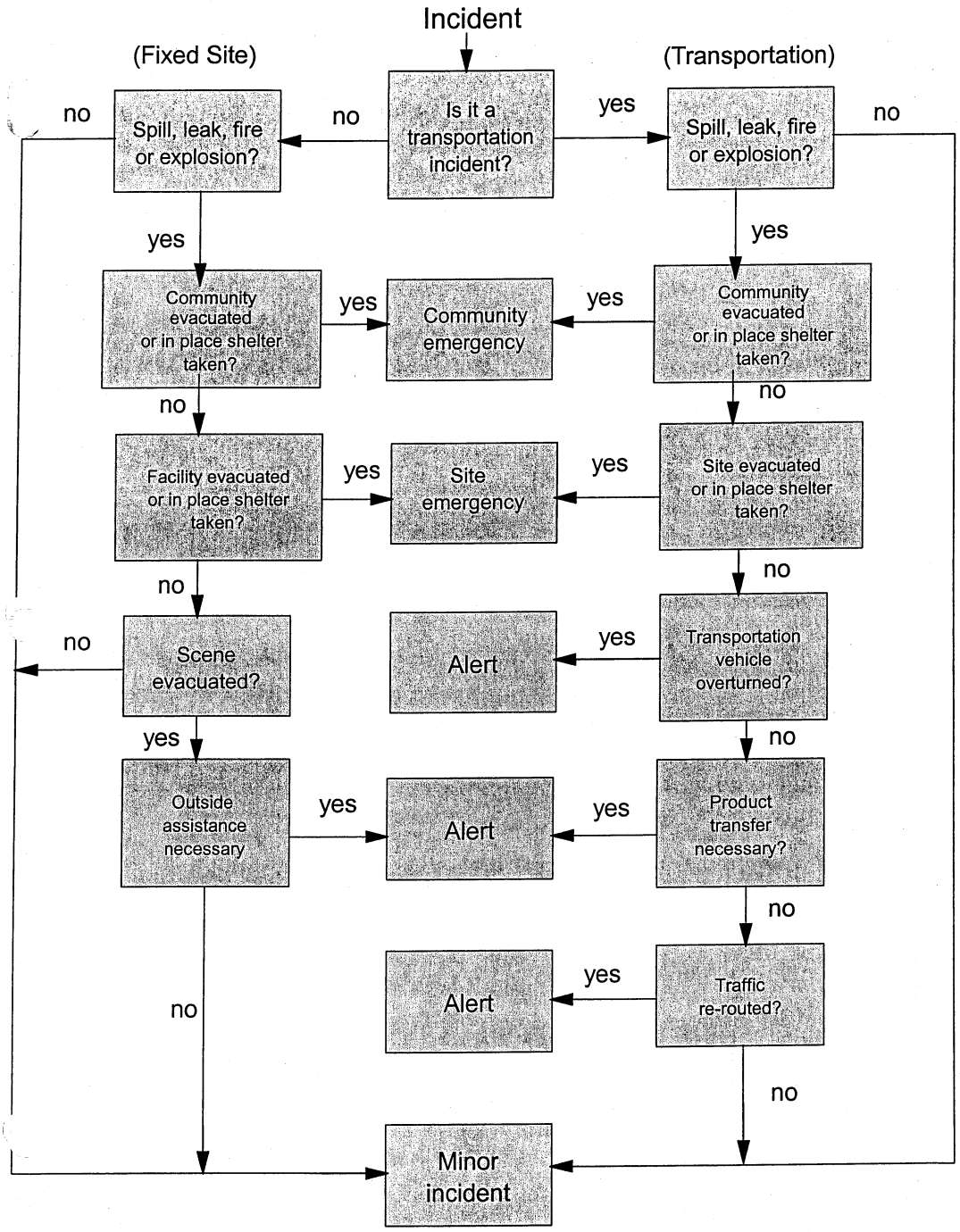
_____ Assign HAZMAT radio channel

_____ Determine need for recon
- Level of protection
- Entry team
- Backup team

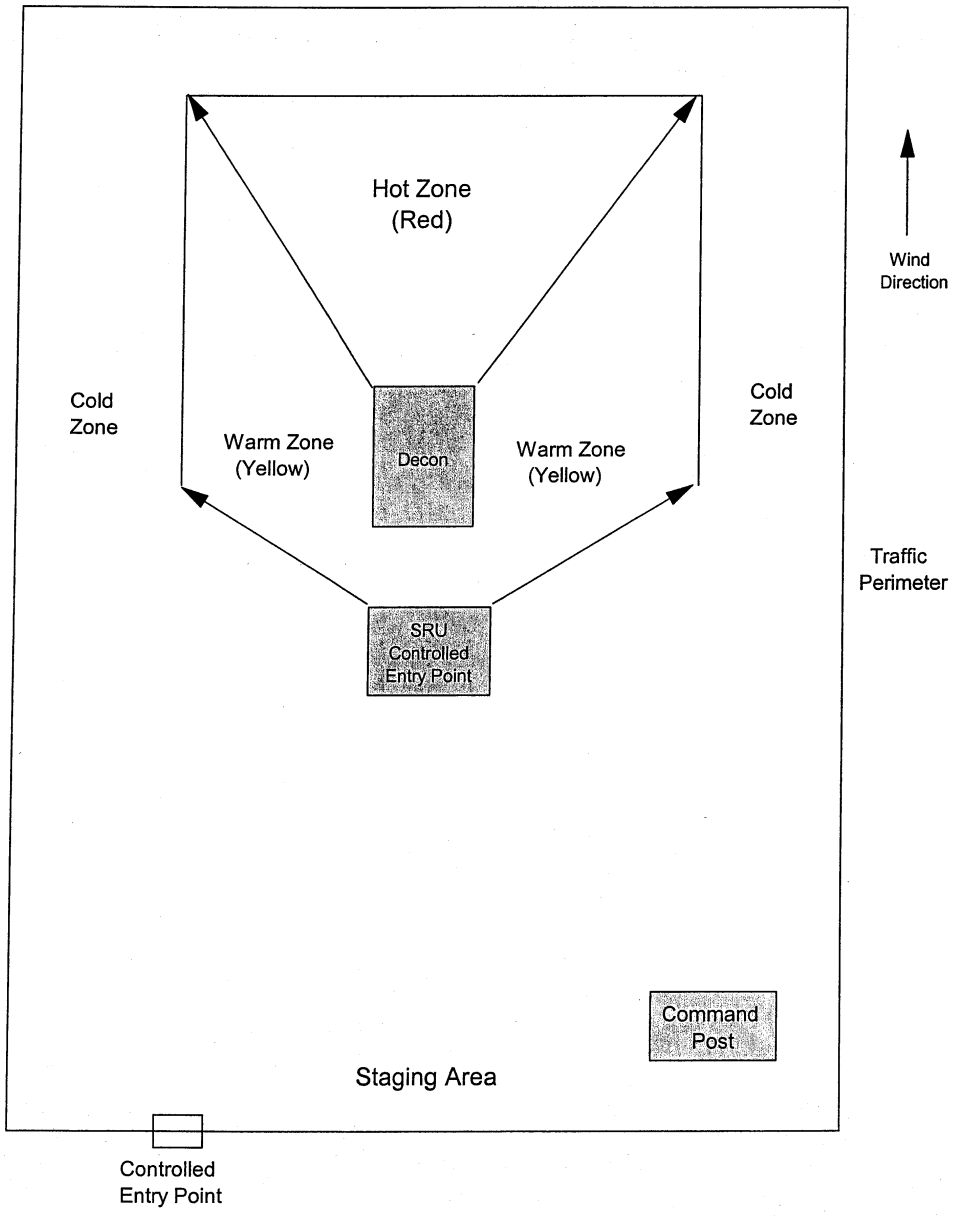
_____ Classify incident (use attached flow chart) and relay to incident commander

_____ Formulate action plan
- Defensive actions
- Offensive actions

_____ Initiate documentation for additional resource development
(or other appropriate request forms for HAZMAT teams)
(Attachment C & C1)


Incident
(Fixed Site)
(Transportation)
Is it a transportation incident?
Spill, leak, fire or explosion?
Spill, leak, fire or explosion?
Community evacuated or in place shelter taken?
Community emergency
Community evacuated or in place shelter taken?
Facility evacuated or in place shelter taken?
Site emergency
Site evacuated or in place shelter taken?
Scene evacuated?
Alert
Transportation vehicle overturned?
Outside assistance necessary
Alert
Product transfer necessary?
Alert
Traffic re-routed?
Minor incident
yes
no

Tactical plan - Incident scene diagram



ATTACHMENT C

CHEMICAL SPILL

INCIDENT DATA

Date:_____ Reporting Time:_____A.M.
P.M.

Involved:_____
Initial Report: □Yes □ No
Follow-up Report:□ Yes □ No
Incident Description:_____

_____

TRANSPORTATION OR FIXED SITE DATA

Facility/Carrier
Involved: _____
Contact: _____
Phone: _____
Address of Incident: _____
City or Township: _____
County: _____

Type of Incident
Spill:□
Leak:□
Fire:□
Explosion:□
Other:□

Type of Incident
Air:□
Water:□
Ground:□

Class
Minor:□
Alert:□
Site Area Emergency: _____
Community Emergency: _____

Incident Status
Escalating:□
Stable De-escalating:□
Terminated:□

PROTECTION ACTION RECOMMENDATION

In-Place:□
Shelter:□
Evacuation:□
None:□

STATISTICS
Number of Injuries: _____
Number of Deaths: _____

CHEMICAL DATA

Material Name: _____
Amount Released: _____
Duration of Release: _____
Total Amount that could be released: _____
Gas:□
Extremely Hazardous:□
Amount Released: _____
Duration of Release: _____
Total Amount that could be released: _____
Other Chemicals/Incompatibles Involved: _____
Health Risk and Precautions: _____
Emergency Medical Treatment Recommended: _____

WEATHER DATE

Wind Direction (from): _____
Wind Speed: _____ MPH
Air Temp (F): _____
Clear:□
Partly Cloudy:□
Overcast:□

Area of Release

Rural:□
Residential:□
Commercial:□
Industrial: □
Open Water:□

Release Impact

Number Affected: _____
School:□
Rest Homes:□
Hospitals:□
Shopping Centers:□
Jail:□
Other:□

INVESTIGATING DATA

Agency: _____
Phone Number: _____
Agencies Notified: _____

_____

Authority: _____
Title: _____

ATTACHMENT C1

HAZARDOUS MATERIALS RESPONSE TEAM ACTIVATION REPORT

Date Call Received	Time	Name and Title Caller	Telephone Number of Caller

Fire Department Making Activation Request* Fire Department Incident Commander

*Note: ONLY THE BELOW LISTED FIRE DEPARTMENT ARE AUTHORIZED TO ACTIVATE THE TEAM

Base	Department	Base	Department	Base	Department
( ) 1		( ) 8		( )	
( ) 2		( ) 9		( )	
( ) 3		( ) 10		( )	
( ) 4		( ) 11		( )	
( ) 5		( ) 12		( )	
( ) 6		( ) 13			
( ) 7		( ) 14			

Incident Location:

Command Post Location: Staging Area Location:

Approach Routing Instructions:

Material Name (Ask Spelling):

Placards or Labels: If Yes, D.O.T. or I.D Number Has the Material been Contained ( ) Yes ( ) No
( ) Yes ( ) No Is there potential for another Release? ( ) Yes ( ) No

Nature of Release Has Evacuation Occurred? ( ) Yes ( ) No
( ) Spill ( ) Solid Is Evacuation Indicated? ( ) Yes ( ) No
( ) Leak *of a* ( ) Liquid
( ) Fire ( ) Gas
( ) Explosion

Report Completed by Date Completed Time Completed

If you need a response follow these steps:

A. Notify the Team that they have bee activated
   1. If you have paging capability, activate ALL PAGERS ( ) with the proper message
   2. If you do NOT have paging capability, NOTIFY that the team is needed
B. Request that the HAZMAT Unit be dispatched through Central Dispatch at _____

The message sent out over the pager should include:

A. Who is requesting the Activation (Fire Dept.)
B. Level of response
   1. Tag Only
   2. Tag & Response Group
   3. Full Team
C. The location the response is for (Incident location)
D. Where the members should respond (staging location)
E. What the response is for (type of release, what may have been released, and quanitity)
F. Is the situation stable or not stable
G. Wind Direction and Speed
H. What is needed (ie Truck/Trailer/Command Post
I. Who is authorizing this broadcast (ie Chief ___)