Table 6.1 Typical Hazmat Problems with Potential Response Objectives and Action Options

Problem	Strategies	Tactics
Access: Access problems may be related to gaining access or denying access (to civilians or unprotected responders). Generally the first problem presented is limiting access to civilians and unprotected responders.	Isolate and deny entry	Establish control zones (Hot and Cold) Control traffic
Container Under Stress: The two types of container stress that responders can readily affect are generally thermal stress (heating) and mechanical stress (due to overpressure).	Ignore	Protect exposures (protective actions only)
	Cool	Use master stream Use hoseline
	Extinguish fire	Remove fuel Use master stream Use hoseline Use foam master stream Use foam hoseline
	Release pressure	Transfer product Release product to atmosphere Vent and burn
Container Breach/Release: Active strategies to manage a breach/release generally require operations inside the hazard area (Hot Zone).	Ignore	Protect exposures (protective actions only)
	Contain	Close valve(s) Tighten attachments Plug Patch Transfer product Decontaminate (required for entry)
Dispersion: Active strategies to control dispersion may be either offensive or defensive (depending on where they are performed). Dispersion control strategies are driven by the form of the material that has been (or is being) released.	Ignore	Protect exposures (protective actions only)
	Confine: Solid	Cover
	Confine: Liquid	 Adsorb or absorb Dike (Circle or V-shape) Divert Retain Dam (underflow or overflow) Suppress vapor (foam)
	Confine: Energy	Shield
	Disperse: Gas	Disperse vapor (water fog or blower)

Table 6.1 (concluded)

Problem	Strategies	Tactics
Fire: The fire problem includes a direct threat to life safety and exposures, potential to affect container integrity, and release of toxic products of combustion. However, in some cases (pesticides), fire may present less threat than fire-control operations.	Ignore	Protect exposures (protective actions only)
	Extinguish	Use master stream Use hoseline Use foam master stream Use foam hoseline Use dry chemical Use specialized extinguishing agent
Possible Victims: Possible victims may be reported (definitely a known imminent life threat) or inferred based on incident conditions. Victims removed from the hazard area (Hot Zone) may require decontamination.	Determine	Ask
	Notify	Use public address system Use telephone
	Locate	Perform primary search/extraction Perform decontamination Perform secondary search
Victims may be visible or known to be inside the hazard area. These victims may (or may not) be able to rescue themselves. First responders must use care in assessing their capability to effect a rescue (due to limitations in personal protective equipment and training. Victims removed from the hazard area (Hot Zone) may require decontamination.	Rescue	Rescue themselves Move to safe refuge Perform extraction Perform decontamination
Potential Life Exposure: Potential victims may become exposed due to dispersion (downhill or downwind). Responders must consider dispersion, time, and incident conditions in evaluating potential life exposure.	Protect in place	Notify face to face Notify by telephone Notify media
	Evacuate	 Notify face to face Notify by telephone Notify media Shelter Control traffic Perform security
Environmental/Property Exposure: Active strategies to minimize environmental/ property damage are generally offensive in nature.	Ignore	Self-mitigate
	Control chemical	Dilute Neutralize
	Cool	 Use master stream Use hoseline Use foam master stream Use foam hoseline