SCENARIO

The Universal Adversary terrorist group plan and execute an attack on the rail road transportation system by planting multiple improvised explosive devices on a train's tankers as is slows down for a community crossroads. There is an immediate explosion and release of chlorine gas into the air. A light (five miles per hour) breeze carries the plume toward residential and commercial areas. There are a moderate number of casualties and only two fatalities on site, but people in the immediate area are contaminated with chlorine.

Emergency warnings are issued for residents in the immediate area to shelter-in-place. It is estimated that nearly 100,000 people may be exposed to the smoke and chlorine as the plume moves downwind. Your hospital, 5 miles from the incident, has also been instructed by local officials to immediately shelter-in-place.

The media are reporting the incident as terrorism, and show the hazmat teams and fire/EMS personnel attempting to put out the fire. The local EOC is immediately activated. There is widespread fear of contamination by residents, even though they are not in the plume area, and many begin presenting to the hospital for treatment. The chlorine cloud and smoke are expected to impact your facility within the hour, and the chlorine may cause facility damage and will require cleanup and decontamination.



1.

CHEMICAL ATTACK - CHLORINE TANK EXPLOSION

INCIDENT PLANNING GUIDE

Does your Emergency Management Plan Address the following issues?

Mitigation & Preparedness

Does your hospital have a plan and procedures shelter-in-place, including:

- The immediate shutdown of HVAC systems?
- Lockdown or securing access to the facility?
- Sealing the facility?
- Does your hospital have a chemical decontamination plan that can be immediately activated and receive victims? Does your plan include provisions for gross decontamination of the victims until full decontamination can be conducted?
- 3. Does your hospital have a procedure for individually controlling HVAC and return air for impacted areas?
- 4. Does your hospital have a procedure to obtain incident and chemical specific details from local officials immediately after the incident and regularly throughout the response?
- 5. Does your hospital have a process to ensure medically qualified and test-fitted personnel are available and assigned to use PPE and provide patient decontamination?
- 6. Does your hospital provide staff training and exercising on use of chemical detection/monitoring equipment and maintain ready state of equipment?
- 7. Does your hospital have immediate access to medication/antidotes?
- 8. Does your hospital have a plan to seal the facility and prevent contamination of staff, current inpatients and facilities?
- 9. Does your hospital have procedures for the management of contaminated and non-contaminated personal belongings?
- Does your hospital have pre-event standardized messages for communicating the risks associated with this event and recommendations to the public and the media?
- Does your hospital use expert information sources (e.g., poison control, DOT Emergency Response 11. Guide, CDC web site, city or county emergency operations plan) when planning for chemical incidents and decontamination?

Response & Recovery

- 1. Does your hospital have procedures with assigned responsibilities to rapidly initiate shelter-in-place?
- Does your emergency management/operations plan address how your hospital receives timely and pertinent incident information from field incident command (e.g., chemical information, decontamination provided/recommendations, etc.)?
- 3. Does your hospital have a procedure to notify field incident command of hospital decontamination location, and ingress and egress routes for EMS?



INCIDENT PLANNING GUIDE

4. Does your hospital have a procedure to secure the decontamination area? Does your hospital have a procedure to provide agent information to decontamination team, all 5. treatment areas, security, and Hospital Command Center? Does your hospital have a process to contain or divert water run off collection and disposal in 6. conjunction with local EPA and local water authority, and appropriately notify authorities when decontamination is activated? 7. Does your hospital have a procedure to notify local EOC of operational status? 8. Does your hospital have a procedure to ascertain the status of other area hospitals? Does your hospital have a procedure to consult with resident experts/Poison Control Center for 9. assessment and treatment guidelines? 10. Does your plan include an emergency patient registration procedure? 11. Does your hospital have a procedure to regularly inventory bed availability/census? 12. Does your hospital have a procedure to regularly inventory antidote supplies? 13. Does your hospital have a procedure to inventory blood products? Does your hospital have a process to identify and address issues associated with ongoing shelter in 14. place, if applicable? Does your hospital have a procedure to provide scheduled family briefings and provide for a family 15. assistance center? 16. Does your hospital have a process to modify family visitation policy? Does your hospital have a process to establish Media Conference area, a procedure to provide scheduled media briefings in conjunction with local EOC/JIC, and a plan to work with local EOC to 17. address risk communication issues for the public? Does your hospital have a process to address fatality issues in conjunction with law enforcement and 18. medical examiner/coroner? 19. Does your hospital have a process to address bio-waste disposal? Does your hospital have a procedure to clean up decontamination area and other "contaminated" 20. areas and reopen them for normal operations? 21. Does your hospital have a procedure to perform air quality monitoring in facility?



INCIDENT RESPONSE GUIDE

Mission: To protect the staff, patients, and facility in the event of an external threat, and to effectively and efficiently triage, decontaminate, treat, and track a surge of victims with respiratory needs.

Direc	Directions					
	Read this entire response guide and review incident management team chart.					
	Use this response guide as a checklist to ensure all tasks are addressed and completed.					
Objec	tives					
	Implem	ent shelter-in-place				
	Protect	the facility, staff, patients and visitors from contamination				
	Patient	triage and medical management				
	Provide	e decontamination of patients and facility				
Imme	diate (O	perational Period 0-2 Hours)				
	COMM	AND				
	(Incider	nt Commander):				
		Receive notification about the incident from local officials				
		Notify the emergency department of possible incoming casualties that have been exposed to numerous chemicals (inhalational and dermal problems); may have blast injuries (pressure and fragment wounds); fire burns; and other possible trauma				
		Implement the shelter-in-place plan				
		Activate and implement the decontamination plan				
		Activate the Emergency Operations Plan and the HCC				
		Appoint Section Chiefs and Branch Directors and Medical/Technical Specialist Chemical, appropriate				
		Establish operational periods				
		Establish operational objectives				
		Protecting life safety of existing personnel & patients				
		Provide decontamination				
	(PIO):					
		Monitor media outlets for updates on the incident and possible impacts on the hospital				



	COMMAND				
	(Safety):				
		Implement decontamination operations and safety measures including staff, patient and facility protection			
		Conduct ongoing analysis of existing response practices for health and safety issues related to staff, patients, and facility, and implement corrective actions to address			
	(Medica	(Medical/Technical Specialist - Chemical):			
		Investigate agent identification and disseminate clinical management information			
	OPERA	ATIONS:			
		Activate Medical Care, Infrastructure, HazMat, and Security Branch Directors			
		Notify the emergency department of possible incoming casualties that have been exposed to chlorine gas (inhalational and dermal problems) and who may have skin irritation or burns and other possible trauma			
		Set up decontamination area and implement decontamination plan and procedures for adults, pediatrics, and patients with special needs			
		Direct implementation of procedures for technical and emergency decontamination and ensure proper use of PPE			
		Implement staff monitoring in and rotation through the decontamination area			
		Relocate medications/antidotes to clinical care and decontamination areas and prepare specific patient antidote dose amounts (e.g., pediatric, geriatric)			
		Implement shelter-in-place as determined by the Incident Commander and at the direction of local officials			
		Isolate HVAC systems in treatment areas, if possible			
		Provide information and instructions to staff, visitors, and patients regarding sheltering-in- place			
		Consult with Medical/Technical Specialist - Chemical and internal and external consultants, including Poison Control Center, Agency for Toxic Substances and Disease Registry (ATSDR) of the CDC to ascertain treatment protocols			
		Provide facility security, traffic and crowd control			
		Activate surge capacity plan and patient registration emergency procedures			
		Prepare for fatalities, including contaminated remains, in conjunction with local law enforcement, coroner/medical examiner and EOC			



	OPERATIONS				
		Provide mental health support for staff, visitors, families and volunteers, in collaboration with Logistics Section			
		Secure/lockdown the facility to prevent contaminated individuals from entering or leaving, and establish a clear perimeter with directions to the Decontamination Area			
	PLANNING				
		Establish operational periods and develop the Incident Action Plan, in collaboration with the Incident Commander			
		Implement patient, materiel, personnel and bed tracking			
Intern	nediate ((Operational Period 2-12 Hours)			
	СОММ	AND			
	(Incide	nt Commander):			
		Ensure communications and decision making are coordinated with external agencies and healthcare facilities			
		Direct implementation of surge capacity plan			
	(PIO):				
		Manage media relations/public information /risk communication and integrate public relations activities with the Joint Information Center			
	(Safety	Officer):			
		Continue to monitor decontamination areas, staff and patient safety and use of personal protective equipment			
	OPERATIONS				
		Ensure the victim decontamination is in compliance with established decontamination practices			
		Implement procedures for patient valuables management, evidence collection and security			
		Evaluate and update staff scheduling to accommodate decontamination team supplementation			
		Implement family notification procedures in conjunction with family assistance center operations			
	П	Ensure proper waste water and expendable materials disposal			



	OPER	ATIONS		
		Continue patient management and facility monitoring activities		
		Monitor the air quality in the facility and evaluate effectiveness of shelter-in-place measures		
	PLAN	NING		
		Update and revise the Incident Action Plan and initiate demobilization assessment and processes		
		Continue patient, materiel, personnel and bed tracking		
	LOGISTICS			
	LOGIS	TICS		
	LOGIS	TICS Monitor the health status staff who participated, supported or assisted in decontamination activities and ensure appropriate medical care and follow up		
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		Monitor the health status staff who participated, supported or assisted in decontamination activities and ensure appropriate medical care and follow up Facilitate procurement of supplies, equipment and medications for response and patient care		



Extended (Operational Period Beyond 12 Hours)					
	COMMAND				
	(Incide	nt Commander):			
		Continue regular briefing of Command staff/Section Chiefs. Address issues identified			
	(Public	Information Officer):			
		Continue patient information center, as necessary			
		Coordinate efforts with local/state public health resources/JIC			
	(Liaisor	n Officer):			
_		Continue to ensure integrated response with local EOC			
		Continue to communicate personnel/equipment/supply needs to local EOC			
		Continue to update local public health of any health problems/trends identified			
	(Safety Officer and Medical/Technical Specialist-Chemical):				
	 Continue to monitor decontamination operations and begin facility decontamination appropriate 				
		Monitor patient and staff safety and appropriate use of PPE			
	OPER/	ATIONS			
		Monitor air quality in the facility			
		Once the plume has passed and local officials advise it is safe to do so, discontinue shelter-in-place			
		Once the plume has passed and local officials advise it is safe to do so, conduct a external inspection of the facility for damage from chlorine and need for decontamination of the external facility			
		Facilitate law enforcement requests for patient/staff interviewing			
		Manage ongoing patient care issues			
		Maintain infrastructure support and services			
		Continue security and facility decontamination and plan for return to normal services			



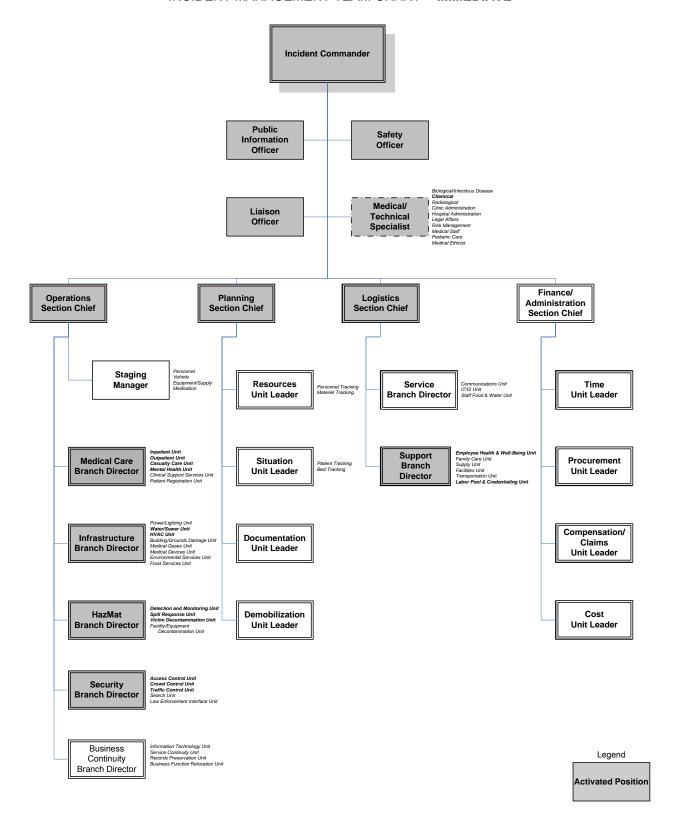
	PLANNING				
		Review and update the Incident Action Plan and plan for demobilization and system recovery			
		Ensure documentation is being completed by all Sections			
		Continue patient, personnel, materiel and bed tracking			
	LOGIS	TICS			
		Once the plume has passed and local officials advise it is safe to do so, discontinue shelter-in-place			
		Implement medical surveillance of personnel			
		Provide for staff food and water			
		Ensure adequate supplies, equipment, personnel and facilities to support extended response operations			
	FINAN	CE/ADMINISTRATION			
		Compile response costs and submit to the Incident Commander			
		Track any claims/injuries and complete appropriate documentation, compile report			
Demo	bilizatio	on/System Recovery			
	COMM	AND			
	(Incide	nt Commander):			
		Oversee and direct demobilization and system recovery operations			
	(Public Information Officer):				
		Provide final briefings as needed to patients/visitors/staff/media, in cooperation with JIC			
	(Liaisor	n Officer):			
		Prepare a summary of the status of the hospital and disseminate to Command staff/Section Chiefs and to public health/EMS as appropriate			
	(Safety	Officer):			
		Oversee facility decontamination and declare facility safe to conduct normal operations			
	OPER	ATIONS			
		Manage decontamination of the facility and restore patient care and facility to normal operations			



	PLANNING					
		Finalize the Incident Action Plan and demobilization plan				
		Compile a final report of the incident and hospital response and recovery operations				
		Ensure appropriate archiving of incident documentation				
		Write after-action report and corrective action plan to include the following:				
		 Summary of actions taken 				
		 Summary of the incident 				
		 Actions that went well 				
		 Area for improvement 				
		 Recommendations for future response actions 				
		Recommendations for correction actions				
	LOGIS	TICS				
		Provide for mental health (acute and long term) services for staff and patients, in collaboration with Operations Section's Mental Health Unit Leader				
		Provide for equipment and supply repair or replacement				
		Provide ongoing support to injured staff or family of deceased staff				
	FINANCE/ ADMINISTRATION					
		Submit final response expenses to the Incident Commander for approval and to appropriate external authorities for reimbursement or other assistance				
Docui	ments a	nd Tools				
	CDC N	ledical Management Guidelines for Chlorine				
	Hospita	ital Emergency Operations Plan				
	Hospita	ital Decontamination Plan				
	Hospita	spital Mass Casualty Incident Plan				
	Isolation Protocols					
	Patient Tracking Form					
	HICS					
	Hazma	Hazmat and terrorism/WMD annexes of local Emergency Operations Plan				

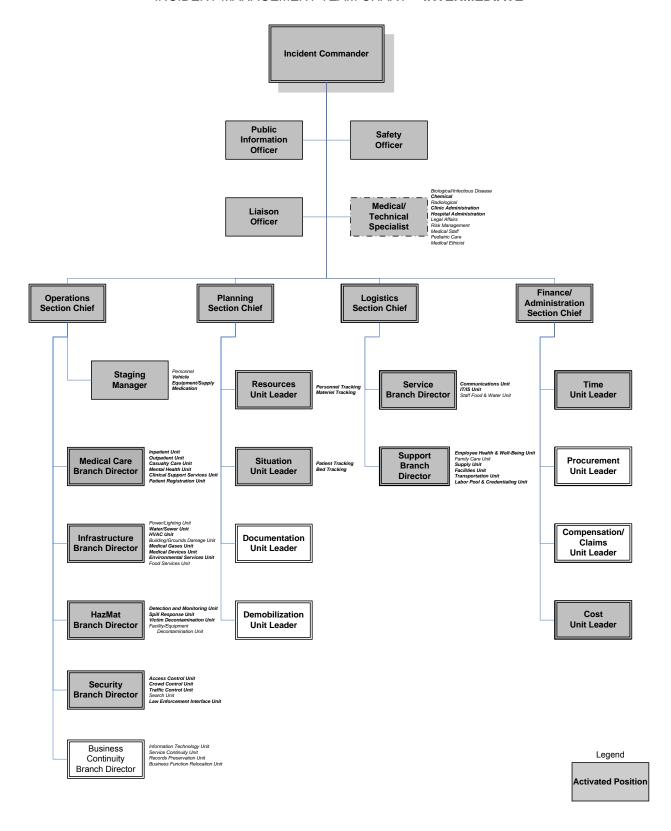


INCIDENT MANAGEMENT TEAM CHART -- IMMEDIATE



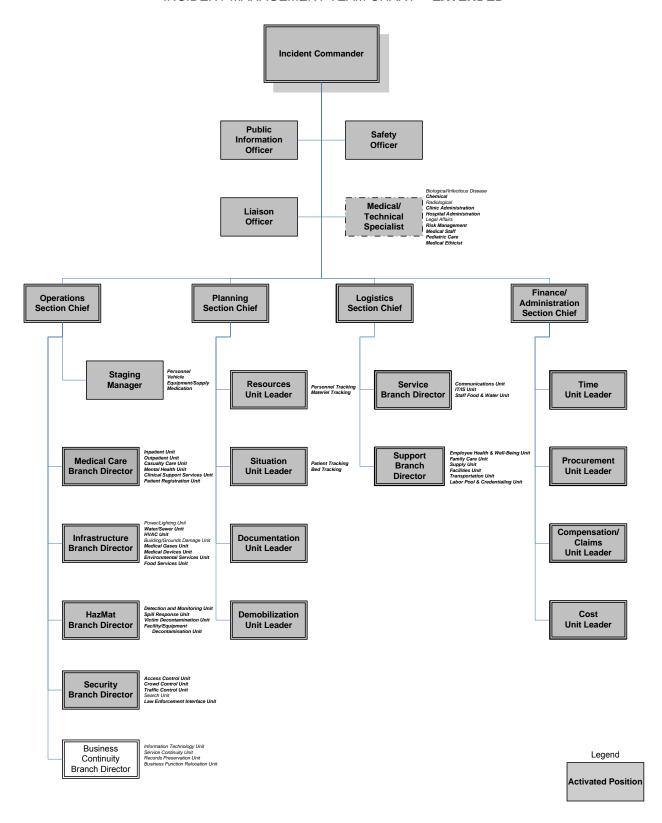


INCIDENT MANAGEMENT TEAM CHART -- INTERMEDIATE





INCIDENT MANAGEMENT TEAM CHART -- EXTENDED





INCIDENT MANAGEMENT TEAM CHART -- DEMOBILIZATION

