

The purpose of this guide is to give an overview of the criminal threats that face our state and measures we can take to protect ourselves. It is one of our missions at the Office of Prevention and Security, Homeland Security Section, to work with the many communities within our state with the common goal of protecting our citizens, critical infrastructures, and the assets they control. This guide is intended to give information that can assist in determining areas within your facility that are vulnerable to possible criminal attacks and ways in which to protect them.

Protective measures are employed in order to:

- Increase awareness among site managers and law enforcement
- Reduce vulnerabilities of sites and their respective critical assets, and/or
- Enhance the defense against and response to an attack

This guide establishes an overview of; criminal objectives, gives examples of specific threat categories, available protective measures, implementation of protective measures, and a protective measures matrix.

While a number of protective measures can be implemented for any of the critical infrastructure sectors, this guide is customized with protective measures customized for the following sector:

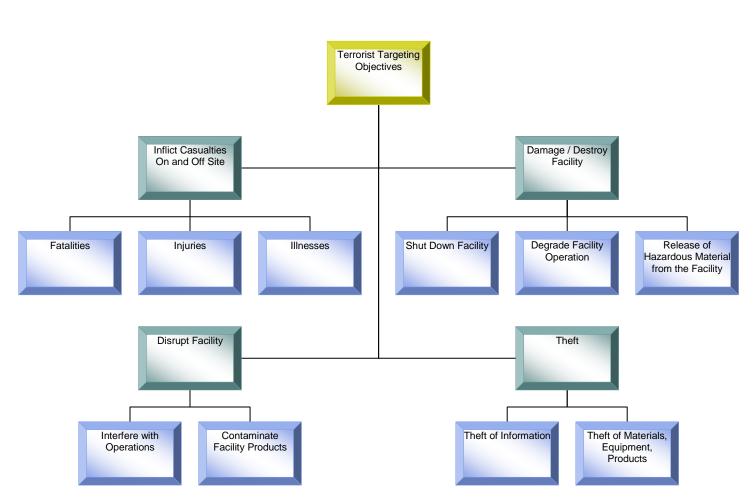
# Infrastructure: Commercial Office Buildings



## **Criminal Objectives**

In general terms, criminals/terrorists seek to destroy, incapacitate, or exploit critical infrastructure and key resources across the United States in order to threaten national security, cause mass casualties, weaken our economy, and damage public morale and confidence. Figure 1 depicts the range of possible objectives for a criminal act on Commercial Office Buildings.

Figure 1



Inflicting casualties in the form of fatalities, injuries, and illnesses is one of the major objectives of many violent criminal acts. Casualties can occur both at a targeted facility and in the surrounding area.

When the target is the actual structure, damage or destruction of the facility can be intended to shut down or degrade the operation of the facility or to cause the release of hazardous materials to the surrounding area. Disruption of the targeted site without inflicting actual damage can be intended to interfere with the facility operations and cause a decrease of output, or to tamper with the facility products to render them dangerous and/or unstable.

Theft of equipment, materials, or products can be intended to divert these items to other uses to reap financial gain from their resale. Theft of information can be intended either to acquire insight that is not public information or to gain data that can be used to carry out attacks.

# Threat categories

Criminals have a variety of weapons and tactics available to achieve their objectives and have demonstrated the ability to plan and conduct complex attacks, simultaneously, against multiple targets. Attacks can be carried out by individuals, small teams of a few perpetrators, or larger groups acting in a coordinated fashion. Some of the many potential categories of threats of concern are described in the following sections.

## Improvised Explosive Devices (IEDs)

Explosives are a common weapon employed by terrorists and violent criminals. They range from small explosive devices detonated by a lone suicide bomber to large quantities of explosives packed into a car, a truck, or waterborne craft. There have been an increasing number of coordinated bombing attacks around the world.

## **Chemical Attack**

Chemicals can be exploited or used by criminals as a weapon. Such chemicals include toxic industrial chemicals (e.g., chlorine, ammonia, hydrogen fluoride) and chemical warfare agents (e.g., sarin gas, VX gas).

## **Biological Attack**

Biological pathogens (e.g., anthrax, botulin, plague) can cause disease and are attractive to terrorists/criminals because of the potential for mass casualties and the exhaustion of response resources.

## **Nuclear/Radiological attack**

Although weapons-grade nuclear material is relatively difficult to obtain, some sources of nuclear and radiological material are more readily available (e.g., from medical diagnostic equipment) and easier to deliver than others in the form of a radiological dispersal device.

## Aircraft Attack

Both commercial and general aviation aircraft can be used to deliver attackers, explosives, or hazardous materials; they can also be used as weapons in and of themselves.

## **Maritime Attack**

Boats of various sizes can be used to deliver attackers, explosives, or hazardous materials; they can also be used as weapons in and of themselves.

# **Cyber Attack**

Criminals can infiltrate data processing, transfer, and storage systems to cause economic and operational damage. Supervisory control and data acquisition systems can be infiltrated to operate infrastructure systems in order to cause damage and inflict on-site and off-site casualties.

# **Sabotage**

The distribution, damage, or destruction of a facility through sabotage, the introduction of hazardous materials into the facility, and/or contamination of facility products is of concern. In some cases, sabotage is designed to release hazardous material from a facility into the surrounding area.

# **Assassination/Kidnapping**

Assassinating key personnel or kidnapping individuals and taking hostages have been used in many criminal acts.

## **Small Arms Assaults**

Small arms, including automatic rifles, grenade launchers, shoulder-fired missiles, and other such weaponry, can be aimed at people (e.g., shooting of civilians) or at facilities (e.g., stand-off assault from outside a perimeter fence).

# **Available Protective Measures**

Protective measures include equipment, personnel, and procedures designed to protect a facility against threats and to mitigate the effects of an attack. Protective measures are designed to meet one or more of the following objectives:

Devalue:	Lower the value of a facility to criminals; that is, make the facility less interesting as a target.
Detect:	Spot the presence of adversaries and/or dangerous materials and provide responders with information needed to effectively respond.
Deter:	Make the facility more difficult to attack successfully.
Defend:	Respond to an attack to defeat adversaries, protect the facility, and mitigate any effect of an attack.

Many different protective measures are available for deployment at a facility and in the areas around it. Some are applicable to a wide range of facilities and against a number of threats, while others are designed to meet the unique needs of a specific facility or a specific threat. In addition, some may be tactical in nature, while others may address long-term strategic needs.

In general, applicable protective measures can be grouped into several broad categories as shown in table 1 on the following two pages. The table is intended to be illustrative rather than comprehensive. In addition to these generally applicable measures, some protective measures that are specifically orientated toward Commercial Office Buildings are given at the end of this guide in the Protective Measure Matrix.

# **Available Protective Measures Matrix**

Protective Measures	Protective Measures Description and Engage
and Type	Protective Measures Description and Examples
Access Control	Control of employees/visits/vehicles entering a facility site or a controlled area in the vicinity of a facility
	Controlled entrances (e.g., doors, entryways, gates, locks, turnstiles, door alarms)
	Control of material (e.g., raw materials, finished product)
	Secure perimeters (e.g., fences, bollards)
	Restricted access areas (e.g., key assets, roofs, heating, ventilation, and air conditioning)
	Access identification (e.g., employee badges, biometric identification) Signage
Barriers	Physical barriers and barricades
	Walls, Earth banks and berms (e.g., for blast protection)
	Fences (e.g., barbed wire, chain link)
	Screens and shields (e.g., for visual screening)
	Vehicle barriers (e.g., bollards, jersey barriers, planters, vehicles used as temporary barriers)
Monitoring and Surveillance	Use of equipment to monitor movements of people and material in and around a facility and to detect contraband
	Closed-circuit television, cameras (e.g., fixed, panning, recording capability)
	Motion detectors
	Fire and smoke detectors
	Heat sensors
	Explosive detectors
	Chemical agent detectors
	Biological agent detectors
	Radiological agent detectors
	Metal detectors
	Night-vision optics (infrared, thermal)
	Lighting (buildings, perimeter, permanent, temporary)
Communications	Communication capability within a facility and between a facility and local authorities
	Telephone (land line, cell, satellite)
	Radio
	Interoperable equipment (within facility, with local jurisdictions)
	Redundant and backup communication capabilities
	Data lines (internet, perimeter, permanent, temporary)
Inspection	Inspection of people, vehicles, and shipments for explosives, chemical/biological/radiological agents
	Personnel searches (including employees, visitors, contractors, vendors)
	Vehicle searches (cars, trucks, delivery vehicles, boats)
	Cargo and shipment searches
	Trained and certified dogs
	X-ray screening
	(Continued on following page.)

Protective Measures and Type	Protective Measures Description and Examples
Security Force	Personnel assigned security responsibility
	Force size
	Equipment (weapons, communication gear, vehicles, protective clothing and
	gear, specialized incident-response gear)  Training
	Operational procedures (patrols, checkpoints, local law enforcement, state
	police, FBI, National Guard)
	Coordination among facility force, local law enforcement, state police, FBI,
	National Guard
Cyber Security	Protection of computer and data systems
	Firewalls
	Virus protection
	Password procedures
	Information encryption
	Computer access control
	Intrusion detection systems
	Redundant and backup systems
Security Program	Procedures and policies
	Employee background checks
	Employee security awareness and training
	Visitor control and monitoring
	Security reporting system  Operations security plan
	Coordination among facility, local law enforcement, state and federal
	agencies,
Incident Response	Procedures and capability to respond to an attack
	Emergency response plan
	Emergency response equipment
	Emergency response personnel
	Emergency response training and drills
	Shelter facilities  Communication with public
	Communication with public
<b>Personnel Protection</b>	Procedures to protect personnel from attack
	Protection for high-profile management personnel (e.g., guard escorts, schedule and route changes)
	Protection for employees (e.g., alerts, reduced travel and business activity outside facility)
Infrastructure Interdependencies	Protection of site utilities, material inputs, and products
	Utilities (e.g., electric power, natural gas, petroleum products, water, telecommunications)
	Inputs (e.g., raw materials, parts)
	Outputs (e.g., finished products, intermediate products)

# **Implementation of Protection Measures**

Some protective measures are designed to be implemented on a permanent basis to serve as routine protection for a facility. Others are implemented or increased in their application only during times of heightened alert.

The implementation of any protective measure at any time involves the commitment of resources in the form of people, equipment, materials, time and money. Facility owners, local law enforcement, emergency responders, and state and local government agencies need to coordinate and cooperate on what measures to implement, how extensive they should be, and how long they should be kept in force in order to maximize security while staying within the bounds of available resources.

To assist in the decision process, consider developing and referring a security step-up plan, so that protective measures can be implemented or expanded to reduce the likelihood or impact of an attack. Table 2 shows an example of a step-up threat alert matrix. Each level of alert should have a corresponding security plan that details the security procedures and measures that need to be implemented to address the threat level.

AI	ert Level	Description
Red	SEVERE	Severe Risk of Criminal Attack
Orange	HIGH	High Risk of Criminal Attack
Yellow	ELEVATED	Significant Risk of Criminal Attack
Blue	GUARDED	General Risk of Criminal Attack
Green	LOW	Low Risk of Criminal Attack

## Random Anti-Criminal/Terrorism Measures

While the best protection can be obtained by implementing all proposed protective measures in some cases it may not be feasible to implement every protective measure 100% of the time due to financial or manpower restraints. Studies have shown an alternative method of randomizing measures may also be effective. For instance, every day a security measure is implemented for half the day. On the first day the local police department is brought in to walk an explosive detecting dog around the facility. Later in the day, all personnel are stopped from entering until a photo ID can be checked. The next day, every fifth vehicle is searched when driving into the parking lot. These methods are changed daily, disrupting a critical piece of the terrorism event planning. While criminals are surveilling possible targets, they observe security measures in place. By frequently changing the security measures, the target is made less attractive due to the unpredictable nature of these random ant-terrorism measures.

## **Protective Measures**

The following Exhibits1-5 are designed to provide information and assistance to facility owners, local law enforcement, and state homeland security agents in making decisions on how to increase security measures on the basis of designated threat alert levels. These suggested measures are collated from infrastructure-specific guidance and from experience in a number of localities across the country. The following should be noted regarding the suggested measures:

These suggestions are intended as a guide; they are not a requirement under any regulation or legislation.

The suggested steps are additive in that higher levels should also include those measures outlined for lower threat levels.

These suggestions are based on practices employed by facilities across the nation. The ability to implement them at any specific facility will vary.

These suggestions should not be viewed as a complete source of information on protecting your facility. Facility managers and local security personnel should consider the full range of resources available, as well as the specific nature of the threats, when responding to changes in threat condition levels.

These guides are not intended to supersede any existing plan or procedures, but are intended to work with or be implemented with current plans and procedures.

## **Exhibit 1 Protective Measures Implemented at HSAS Threat Level Green**

Measures put in place under this threat level can be considered to be "baseline countermeasures" that are in place under all conditions. Industry-developed guidelines provide detailed information on specific measures (see pages 5-9), which are not repeated here. The following list provides a brief summary of the major types of measures suggested by industry organizations for implementation.

Devalue	Detect	Deter	Defend	Protective Measures	Measure Implemented by
				Access Control	
	Х	Х		Validate that existing security access control measures (e.g., locks, door alarms, card	
	V	V		access devices) are in good working order.  Identify those measures and resources that can enhance security at higher threat condition	
	Х	Х		levels.	
	Х	Х		Control access to all key command, control and communications areas and other critical facilities at all times.	
	Х	Х		Maintain awareness of any contractors who are working on a critical facility (e.g., HVAC, fire alarms).	
	Х	Х		Develop plans for restricting vehicular access.	
				Barriers	
		Х	Х	Ensure that existing fencing is functional.	
		Х	Х	Work with law enforcement to develop a vehicle parking plan that provides safe-distance	
		Λ.	Λ.	parking next to and around facilities, including garages or under-building parking.	
				Monitoring and Surveillance	
	Х			Survey surrounding areas to determine how threats to neighboring facilities (e.g., airports, government buildings, industrial facilities, railways, electric power lines, and waterways).	
	Х	Х		Provide adequate lighting in security areas.	
	Х	Х		Provide video surveillance systems for critical areas and connect the systems to a central	
	,	,,		monitoring control room.  Advise all personnel to report the presence of unknown persons, unidentified vehicles,	
	Х			vehicles parked in an unusual manner, abandoned parcels or packages, and other	
				suspicious activities.	
				Communications	
	Х	Х		Maintain and monitor building communications and warning systems.	
	Х	Х	Х	Develop liaison with local law enforcement emergency response teams to enhance information exchange, clarify emergency response, track threat conditions, develop communications methods and alternatives, and support investigations.	
			Х	Provide names and phone numbers for key contact personnel to the emergency response organizations.	
			Х	Develop canned messages that can be disseminated to the workforce at the announcement of various alert levels. Determine when, by whom, and how those	
				messages will be disseminated.	
	N.			Inspection	
	X	Χ		Conduct routine security inspections.	
				Security Force	
X	X	X	X	Maintain an adequately staffed and equipped security force.	
X	X	X	X	Conduct regular patrols of facility using random time schedules.  Train security personnel on acceptable and appropriate responses to civil disturbance,	
Х	Х	Х	Х	demonstrations, protests, and other similar situations.	
				Cyber Security	
		Х	Х	Determine the threats to existing/proposed information technologies. Conduct cyber asset classification to identify assets that require protection.	
	Х	Х	Х	Establish an information/data security risk management program. Develop and implement hardware, software, and communication security for computer-based operational systems.	
	_	Х	Х	Implement cyber access controls, including (1) administrative controls (e.g., policy, procedures, training, background checks, and supervision) and (2) logical or technical	
		^		controls to restrict access to systems and information (e.g., passwords, tokens, encryption, system hardening, and protected protocols).	
Х		Х	Х	Control Access to information technology systems (on-site, remote access).	
	Х	Χ		Log and monitor for inappropriate network activities.	
	Х	Х		Install antivirus software throughout the enterprise on personal computers, data file servers, and centralized applications servers and in the firewall complex.	
	Х	Х		Define the network security perimeter by appropriately configured and managed control devices, such as security gateways and firewalls.	
		Х		Review and thoroughly test applications that require processing of sensitive data before putting them into production, and periodically reevaluate them to ensure application	
				integrity is maintained.	

## **Exhibit 1 Protective Measures Implemented at HSAS Threat Level Green**

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Devalue	Detect	Deter	Defend	Protective Measures	Measure Implemented by
	Х	Х		Create an information technology security education and awareness program for technical administrators and key focal points.	
	Х	Х		Establish a comprehensive employee training program that addresses information/data security.	
				Security Program	
X	Х	Х	Χ	Develop a comprehensive security plan, policies and procedures.	
	Х	Х		Conduct employee background screening.	
	Х	Х		Screen contractors, temporary employees and visitors.	
	Х	Х	Χ	Conduct regular security audits.	
X	Х	Х		Caution employees not to talk with outsiders about their facility or related topics.	
Х	Х	Х		Develop a terrorism and security awareness program and educate and train employees and specified contractor personnel on security standards and procedures.	
	Х		Х	Review and validate procedures for heightened alert status.	
Х		Х		Review information posted to Web sites and be prepared to remove it if it compromises security.	
			Χ	Develop emergency procedures and training for people with special needs.	
	Х		Χ	Be cognizant of current events. Monitor television, radio and newspaper reports.	
	Х	Х	Х	Prepare and review risk assessments against facilities, assets and personnel.	
				Incident Response	
				Develop emergency operations and business continuity-of-operations plans that address	
X			Χ	such topics as readiness, prevention, response, recovery/resumption, testing and training	
				and evaluation and maintenance.	
			Χ	Maintain an adequately staffed, equipped and trained emergency response team.	
			Χ	Develop a communications plan for emergency response and notification of key personnel.	
			Х	Conduct drills and exercises for emergency response team and facility occupants.	
	Х	Х	Х	Capture "lessons learned" after each incident or exercise.	
			Х	Develop procedures for shutting down and evacuating the facility. Facilities located near critical community assets should be especially vigilant.	
			Х	Prepare for the possibility of flooding or other destruction as a result of a bombing incident or other similar catastrophic events.	
			Х	Establish liaison/working relationships with emergency management and first responders.	
			X	Ensure that local agencies are familiar with the physical layout and operational procedures. Designate arrival location for emergency response vehicles.	
				Personnel Protection	
			Х	Consult with local first responders and other government agencies regarding best actions to develop relative to "shelter-in-place".	
	Х		Х	Encourage and assist employees and their families to be prepared for personal, natural, technological, and homeland security emergencies.	
				Infrastructure Interdependencies	
				Know how to turn off power, gas, and water. Ensure procedures are ready for dealing with	
			Х	emergency shutdowns of HVAC systems in the event of a possible internal or external chemical release.	
		Х	Х	Prepare contingency plans for loss of critical utility services (water and electric power	
		X	X	Ensure coordination with supporting telecommunication restoration priorities and plans.	
L	1		^	Enouge deciration with supporting telecontribution restoration phonties and plans.	

## Exhibit 2 Protective Measures Implemented at HSAS Threat Level blue

Ensure measures taken for lower alert levels are reviewed and reinforced, as needed. Review the measures listed in the higher level alert levels to determine which measures should be implemented on the basis of the current threat and consider implementation of the following measures:

Devalue	Detect	Deter	Defend	Protective Measures	Measure Implemented by
				Access Control	
		Х		Review security hardware on doors, locks and windows. Check emergency exit doors for functionality and operation.	
	Х	Х		Ensure adequate access control measures and procedures; enhance as needed, especially at critical facilities.	
		Х	Х	Reduce the number of access points, if possible, for vehicles and personnel, and periodically spot-check the contents of vehicles.	
	Х	Х		Use company-issued or government-issued photo lds.	
	х	Х		Require visitors to check in at facility office to verify their identification. Be especially alert with regard to repeat visitors or outsiders who have no apparent business at the facility and are asking questions about the facility or its personnel.	
	Х	Х	Х	Install emergency buzzers from entrances and exits to a central command center.	
				Barriers	
		Х	Х	Work with law enforcement to develop plans for installing barriers (e.g., large flower pots, cement stanchions) to prevent vehicles from driving through facility doors and /or gates.	
				Monitoring and Surveillance	
	X			Check operation of CCTV systems and review policies with facility personnel.	
	X	Х		Install or verify operation of duress alarms to the central command center from the reception desk and/or remote guard stations, executive offices and key access points.	
	Х	Х		Upgrade surveillance cameras and alarm systems, if appropriate, for heightened threat	
	^	^		levels.	
	х			At regular intervals, remind all personnel to be suspicious and inquisitive about strangers, particularly those carrying suitcases or other containers. Watch for unidentified vehicles on or in the vicinity of the facility. Watch for abandoned parcels or suitcases or any unusual activity.	
				Communications	
	Х	Х	Х	Inform personnel of a change in alert status.	
	Х	Х	Х	Review with the employees the operation plans, personnel safety, security details, and logistics requirements that pertain to the increased security level.	
	Х	Х	Х	Review all data and voice communication channels to ensure operability, use familiarity, and backup functions as designed.	
	Х	X	X	Ensure that telephone and radio/phone contact with local law enforcement works.  Test emergency communication procedures and protocols.	
		X	X	Plan for alternate means of communication if phone lines are not available. Determine availability of satellite capability to support communications if cell phone service is not available.	
				Inspection	
	Х	Х		Increase frequency of inspections and patrols within facilities, including the interior of the buildings and along their perimeter.	
	Х	Х		Develop procedures to inspect items carried into the facility by personnel, contractors and visitors.	
	Х	Х	Х	Review the U.S. Postal Service "Suspicious Mail Alert" and "Bombs by Mail" publications with all personnel involved in receiving packages.	
				Security Force	
	Х	Х	Х	Review and verify availability of addition/backup personnel to support security and facility functions.	
				Cyber Security	
	X			Increase monitoring of all external network connections.	
	X	X	X	Increase the frequency of mission-critical data back-up.  Review and validate information/data security response plan, if established.	
	X	X	^	Refresh employees' knowledge of social engineering techniques designed to trick employees into divulging information that could be used to compromise data security.	
				Security Program	
	Х	Х	Х	Review all operations plans, personnel details, and logistics requirements that pertain to implementing higher alert levels.	
	Х	Х	Х	Review budgets to support required security measures as costs increase due to heightened threat level. Determine if partnerships can be leveraged with other	
				organizations to reduce the costs.	

Measure

## **Exhibit 2 Protective Measures Implemented at HSAS Threat Level blue**

Devalue	Detect	Deter	Defend	Protective Measures	Measure Implemented by
	X	X	X	Develop table top exercises of procedures that may be appropriate.	
		Х	Х	Establish a process for periodic monitoring of television, radio, and news reports, and incorporate this capability in the central command center.	
	Х	X	Х	Review, update and routinely exercise security plans.	
	Х	X	X	Review physical security precautions.	
	Χ	Χ		Review provisions for employee picture identification badges and background checks.	
				Incident Response	
	Х	Х	Х	Review contingency and evacuation/relocating plans and emergency response manuals.	
			Х	Establish a crisis management team and other related response teams, such as an emergency response team, incident response team, and disaster recovery team, and train them with regard to their responsibilities for each threat level.	
		Х	Х	Review and update the call-down list for the emergency response teams.	
			Х	Inventory and verify the readiness of protective equipment, if available.	
			Х	Review and validate that basic training of response personnel is current and adequate with regard to possible threat conditions relevant to the organization.	
			Х	Ensure that the organization's first responders are certified in first aid, CPR and the use of defibrillators.	
		Х	Х	Develop relationships and documents, if appropriate, with local, state, and federal agencies, including emergency management, law enforcement, and the military.  Determine if partnerships can be leveraged with other organizations to reduce costs.	
	Х	Х	Х	Invite local fire, police, emergency medical services, and regulatory agencies to training exercises designed for the organization's crisis management team and related response teams.	
				Personnel Protection	
	Х	Х		Reinforce personal security awareness.	
	Х	Х	Х	Give key personnel, vendors, suppliers, and contractors a copy of the facility emergency procedures and other pertinent organizational guidelines.	
				Infrastructure Interdependencies	
			Х	Maintain independent emergency telephone lines separate from facility private branch exchange. In addition, develop backup/alternate methods of communications.	

# **Exhibit 3 Protective Measures Implemented at HSAS Threat Level yellow**

Devalu	Detect	Deter	Defend	Protective Measures	Measure Implemented by
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				Access Control	
V					
X		1		Consider removing or covering company logos.	
	Х	Х		Perform housekeeping of exterior grounds of facilities, limiting the storage of items (e.g., crates, barrels, etc)	
	X	X	Χ	Enhance or provide manned coverage of dock areas, if not already doing so.	
	Х	Х		Verify truck drivers' licenses, bills of lading, and other applicable paperwork relative to deliveries.	
Х			Х	Validate all building alarms, access controls, intrusion detection systems, and building systems in accordance with the threat conditions.	
		Х		Close and lock all gates and barriers, except those needed for immediate entry and exit.	
	Х	Х		Assign personnel to assist with security duties, monitoring personnel entering the facility, inspecting the area on a regular basis, and reporting to the facility management as issues surface.	
				Barriers	
		Х	Х	Install Jersey barriers to prevent vehicles from entering or nearing critical facilities.	
		X	X	Install tire shredders at critical entrances.	
				Monitoring and Surveillance	
	Х			Review the list of individuals notified by automatic alerts generated by security monitoring	
		-		systems (e.g., network and information technology intrusion detection systems).  At the beginning and end of each workday, inspect interior/exterior of buildings and storage	
	Х	Х		areas in regular use. Inspect all vulnerable areas in critical facilities.	
	Х	Х		Increase building spot checks.	
				Check HVAC filtration; any detectors, monitors or alarm systems; and water security	
	Х	Х		systems.	
	Х	Х		Ensure that other security systems are functioning and available for use.	
				Communications	
		V			
	Х	Х	Х	Inform personnel of the change in alert status.	
	Х	Х	Χ	Review with employees operations plans, personnel safety, security details, and logistic	
	-			requirements that pertain to the increased security level.	
	Х	X	Х	Ensure that all telephone, radio, and satellite communication systems are in place with all concerned personnel.	
	Х	Х	Х	Enhance interface with law enforcement, safety and related emergency responder groups.	
				Implement procedures to provide periodic updates to employees on security measures	
		Х		being implemented.	
		· ·		Verify that cell phones and pagers are ready for distribution to the members of the crisis	
		X	Х	management team and related response teams.	
		Х	Х	Determine if cell phones should have text messaging capability.	
		Х	Х	Ensure that communication channels and processes are open, reliable and consistent and that alternative/backup forms of communications are available.	
				Inspection	
				Review and verify vehicle inspection training for security personnel.	
	Х	Х		Physically inspect cargo as necessary.	
	X	X		Consider increasing screening activity of inbound packages.	
	X	X		Raise awareness regarding delivery of suspect mail and packages.	
	X			Enhance mail inspection procedures.	
				Security Force	
		,,,		Consider guard reinforcement and ensure that guards are adequately trained in company	
	Х	Х	Х	procedures.	
				Cyber Security	
	Х	Х	Х	Increase review of intrusion detection and firewall logs.	
		Х		Perform penetration testing of individual organizational sites and encourage participation by vendors to validate cyber security levels.	
	.,	.,		Refresh employees' knowledge of the danger of malicious code delivered by e-mail via	
	Х	Х		worm, viruses, etc	
				Security Program	
		X		Announce threat condition Yellow- ELEVATED	
X	Х	Х		Review vulnerability and threat assessments and revise as needed.	
		X		Update and test call-down lists for emergency response teams and key employees.	

# **Exhibit 3 Protective Measures Implemented at HSAS Threat Level yellow**

Devalue	Detect	Deter	Defend	Protective Measures	Measure Implemented by
Х	Х	Х		Review, coordinate and update mutual aid agreements with other critical facilities and government agencies.	
	Х	Х		Establish and monitor active and passive security measures.	
	Х	Х		Review employee training on security precautions (bomb threat procedures, suspicious mail handling procedures, etc)	
	Х	Х	Х	Verify the equipment, communications lists and processes in the central command center, if established.	
		Х	Х	Verify contacts and communicate with the law enforcement community and local outside emergency medical, fire and response personnel.	
	Х	Х		Obtain threat and intelligence updates from local, state, and federal authorities as well as private industry security sources.	
	Х	Х		Ensure security-related information is communicated to personnel across the organization, as approved by leadership.	
	Х	Х		Periodically review actions taken to date against stated threat conditions, since they may rapidly change for better or worse.	
	Х	Х		Maintain a high level of suspicion and remain alert to unusual activities, occurrences, and behavior.	
				Incident Response	
	Х	Х	Х	Review and refine emergency response processes within the context of the current threat information.	
			Х	Ensure that a company response can be mobilized as appropriate for the increased security level.	
			Χ	Review communications procedures and back-up plans with all concerned personnel.	
		Х	Х	Ensure that all business, emergency, and continuity/recovery plan documents (e.g., contact lists, notification/escalation procedures) are up to date.	
			Х	Convene crisis management team and other related response teams to review emergency response and business recovery plans. Confirm functional responsibilities.	
				Personnel Protection	
	Х	Х		Emphasize and elevate the importance of knowing about planned absences, arrivals and whereabouts of all personnel.	
		Х	Х	Increase the frequency of warnings required under lower threat conditions. Inform personnel of additional threat information as available.	
		Χ	Х	Provide periodic updates on security measures being implemented.	
		х	Х	As appropriate, review with facility employees the operation plans, security details, personnel safety and logistics requirements that pertain to implementing increased security levels.	
				Infrastructure Interdependencies	
	Х	Х		Increase inspection of infrastructure connection points (e.g., electric power, telecommunications, water, natural gas).	

# **Exhibit 4 Protective Measures Implemented at HSAS Threat Level Orange**

Devalue	Detect	Deter	Defend	Protective Measures	Measure Implemented by
				Access Control	
	Х	Х		Evaluate requiring special identification for day labor (e.g., special badges, colored wristbands, etc). Inspect government-issued photo ID as proof of identification each time.	
		Х		Strictly enforce access control to all critical facilities, especially control rooms.	
		Χ		Restrict vehicle parking close to buildings.	
	Х	Х	Х	Evaluate arranging for security or law enforcement vehicles to be parked randomly near access points and exits.	
	Х	Х		Prepare to restrict access to essential personnel only.	
		X		Limit driveway and parking area access as appropriate.	
		X		If feasible, discontinue, limit, or otherwise control perimeter parking.	
		X		Evaluate eliminating underground parking.  If permissible, in compliance with fire code, restrict access to rooftops or, at a minimum, monitor continuously.	
		Х		Reduce the number of access points for vehicles and personnel to minimum levels.	
		Х		Evaluate restricting services provided by outside vendors/suppliers (e.g., cleaning crews) to possible no-sensitive areas.	
		Х		Validate vendor lists for all routine deliveries and repair services.	
		Χ		Discontinue tours and cease other nonessential site visits.	
				Barriers	
		Х	Х	Erect barriers and obstacles to control vehicle traffic flow and protect the facility from attack by a parked or moving vehicle. Consider using company vehicles for this purpose.	
		Х		Review all outstanding maintenance and capital project work that could affect the security of the facility.	
				Monitoring and Surveillance	
Х	Х	Х		Assign additional staff in the central command center to monitor existing security cameras in real time.	
	Х	Х		Evaluate the use of special foot patrols if appropriate (campus environments).	
	Х	Х		Install temporary CCTV at potential surveillance points, administration buildings, docks and control room access points.	
	Х	Х		Enhance visibility in and around perimeters by increased lighting and removing or trimming vegetation.	
	Х	Х		If conditions warrant, conduct heightened screening of all inbound mail. Direct attention to any packages or letters received without a return address or having indications of stains/powder.	
				Communications	
	Х	Х	Х	Include security and awareness briefings as part of daily job briefings.	
				Inspection	
	Х	Х		Check and screen all deliveries.	
	X	X		Increase the frequency of random briefcase and carryall inspections.	
	Х	Х		Search all vehicles and contents before they enter the facility.	
	Х	Х		Search all personal bags and parcels, and require personnel to pass through security checkpoints.	

# **Exhibit 4 Protective Measures Implemented at HSAS Threat Level Orange**

Devalue	Detect	Deter	Defend	Protective Measures	Measure Implemented by
	X	X		Inspect all deliveries and consider accepting shipments only at off-site locations.	
	Х	Х		Evaluate vehicle inspection program to include checking the undercarriage, under the hood, and in the trunk of vehicles.	
	Х	Х	Х	Approach all illegally parked vehicles in and around the facilities. Question drivers and direct them to move immediately. If the owner cannot be identified, have the vehicle towed	
	×	Х		Coordinate with facilities and building management, and increase inspections in and around the facility to ensure that utility and emergency systems are not tampered with, damaged, or sabotaged. The effort should include emergency generation and lighting, fire alarms and perimeter protection.	
	Х	Х	Х	Implement frequent inspection of critical facilities, including the exteriors and roofs of all buildings and parking areas.	
	Х	Х	Х	Increase patrolling at night and ensure that all vulnerable critical points are fully illuminated and secure.	
	Х	Х		Check all security systems, such as lighting and intruder alarms, to ensure they are functioning.	
	Х	Х		Modify lighting levels, as appropriate, to address changing security needs.	
	Х	Х		Assign personnel at facility to assist with security duties by monitoring personnel entering the facility, checking vehicles entering the facility, patrolling the area regularly and reporting to facility management as issues surface.	
	Х	Х		Resurvey the surrounding area to determine whether activities near a critical facility (e.g., airports, government buildings, industrial facilities, railways, and waterways) could create hazards that could affect the facility.	
	X	X		Increase inspections on building systems and infrastructure, including HVAC systems.	
	Х	Х		Inspect and, if feasible, secure vacant rooms (e.g., meeting, guest, housekeeping and storage rooms).	
				Security Force	
	Х	Х	Х	Increase number of security guards and patrol activities.	
	×	Х		Determine increased officer requirements for extended periods. Possibly suspend holidays, etc and hold discussions with contract security providers for increased human resources.	
		Х		Implement random shift changes of security guards.	
				Cyber Security	
Х		Х		Evaluate publicly accessible Web sites, and where necessary, close down nonessential services. For remaining sites, ensure that all operating systems and related application software patches are applied.	
				Security Program	
		Х	Х	Announce Threat Condition Orange – High.	
		Χ	Х	Place all critical and on-call personnel on alert.	_
		X	X	Place emergency response teams on notice.	
	X	X	X	Activate the business emergency operations center, if required.	
	X	X	X	Ensure that appropriate security measures are in place and functioning properly.  Instruct personnel to immediately report suspicious activity, packages/articles, people and	
	X	X		vehicles to security personnel. Call 911 for immediate response, if needed.  Be cognizant of unattended packages/ articles and vehicles.	
	Х	X	х	Move automobiles and other non-stationary items at least 25 meters from the facility, particularly buildings and sensitive areas, unless doing so would create a safety hazard or impede other security measures in place.	
	Х	Х	Х	Identify areas where explosives devices could be hidden and arrange for regular inspection.	
Х	Х	Х		Cancel or delay all non-vital facility work conducted by contractors, or have company personnel continuously monitor the contractors' work.	
	Х	Х		Discuss and coordinate with facilities and building management other security controls for guests and vendors.	
		Х	Х	If elevators are on premises, train staff in the operation of the elevators and the correct response in the event of an emergency.	
			Х	Coordinate operations related to critical infrastructure concerns with armed forces (i.e., armed security, local law enforcement, or the military).	_
		Х	Х	Run call tests and verify that all equipment is operational.	
		X	Х	Staff central command center, if in existence, during normal operational hours and continue to review call lists for currency.	

# **Exhibit 4 Protective Measures Implemented at HSAS Threat Level Orange**

Devalue	Detect	Deter	Defend	Protective Measures	Measure Implemented by

				Incident Response	
	Х	Х	Х	Implement emergency and contingency plans as necessary.	
	Х		Х	Ensure that all personnel responsible for implementing counter-measures are immediately available. Staff critical facilities where feasible.	
		Х	Х	Convene emergency response/ crisis management teams to review the more specific information that is available from law enforcement, the media and other sources to assess the potential impact to the organization.	
			Х	Provide cell phones and pagers to the members of the crisis management team and related response teams, if not already done.	
Х			Х	Verify that alternate locations are valid and that personnel supporting recovery operations are current in their obligations.	
			Х	Prepare for possible evacuation, closing, and securing of all individual organization facilities.	
			Х	Review ability of facilities and building management to rapidly shut down HVAC equipment. Discuss conditions whereby HVAC is to be shut down and restarted.	
				Personnel Protection	
	Х	Х		Update personnel on escalating threat.	
			Х	Verify shelter-in-place procedures and equipment.	
			X	Ensure that best available filtration is being used for existing HVAC configuration.	
				Infrastructure Interdependencies	
		Х	Х	Review plans to address any redirections or constraint to transportation systems.	
		Х	Х	Consult with local authorities about control of public roads and accesses that might make the facility more vulnerable if they were to remain open.	

## **Exhibit 5 Protective Measures Implemented at HSAS Threat Level Red**

Ensure measures taken for lower alert levels are reviewed and reinforced, as needed, and consider implementation of the following measures:

Devalue	Detect	Deter	Defend	Protective Measures	Measure Implemented by
				Access Control	
Х		Х	Х	Coordinate with local authorities regarding closing of public roads and facilities.	
X		Х	Х	Reduce facility access points to the absolute minimum necessary for continued operation.	
	Х	Х	Х	Arrange to have heavy equipment placed at strategic locations near entrances and critical	
		X		components.  Do not allow visitors.	
		X		Do not allow non-essential vehicles into critical areas.	
	Х	Х		Thoroughly search essential vehicles, including undercarriage and the cab; enter cargo	
	^			area when possible.  Close or restrict entry to the facility to essential personnel only and restrict parking areas	
		Х		close to critical buildings.	
	Х	Х		Restrict or suspend all deliveries and mail to the facility. Send emergency supplies or essential shipments to an off-site location for inspection.	
		Х		Stop non-essential contract services at the facility.	
		Х		Staff all access points and restricted areas 24/7.	
	Х	Х		Restrict access to facilities, equipment, systems and essential personnel only.	
				Barriers	
		Х	Х	Deploy temporary barriers at all key assets.	
				Monitoring and Surveillance	
		Х	Х	Establish surveillance points and reporting criteria and procedures.	
	Х	X		Make frequent checks of all facility exterior areas, including parking.	
				Enhance monitoring of all buildings and access control/intrusion detection systems (e.g.,	
	X	Х		cameras, alarms, locks, lighting, card access devises). Ensure frequent checks with other integrated security consoles.	
	X	Х		Leave lighting on 24/7	
	X	X	Х	Increase security patrol activity at facility to the maximum levels sustainable.	
				Communications	
				Advise appropriate agencies that the facility is at Red level and provide advice as to the	
		Х	X	measures being used.	
			X	Test communications and notification procedures.	
			Х	Advise site management of potential implementation of evacuation/relocation plan.	
			Х	Conduct daily briefings with local law enforcement and industry information-sharing and coordination organizations on threat condition.	
			Х	Request assistance from local law enforcement to secure the facility and control access.	
			X	Cooperate with local law enforcement if they direct security measures.	
		Х	X	Extract and maintain a predetermined number of communication lines for emergency	
				operations.	
				Inspection	
<u> </u>	Х	Х	-	Search all persons before they enter the building.	
	Х	Х	Х	Inspect all vehicles entering the facility, including cargo areas, undercarriage, glove compartments and all other areas where dangerous items could be concealed.	
	Х	Х	Х	Identify the owners of all vehicles at critical facilities and remove all vehicles whose owners have not been identified.	
	Х	Х		Utilize alternative, enhanced methods of inspection at designated access points.	
				Security Force	
	Х	Х	Х	Augment security forces to ensure control of the facility and access to the facility and other potential target areas.	
Х	Х	Х	Х	Increase the number of security guards, guard postings and roving guard visibility.	
		Х	Х	Augment security guards with law enforcement/military personnel where feasible. Have	
		X	X	law enforcement on the site 24 hours a day if possible.  Consider using armed guards.	
				Cyber Security	
		V	V		
<u> </u>		X	X	Restrict computer access to essential personnel only.  Increase computer security levels to maximum.	
X		X		If warranted, disconnect organizations networks from the internet.	
				Consider continuous 24/7 monitoring of cyber security communications for latest	
	Х			vulnerability information.	
			X	Contact software vendors for status of software patches and updates.	

# **Exhibit 5 Protective Measures Implemented at HSAS Threat Level Red**

Ensure measures taken for lower alert levels are reviewed and reinforced, as needed, and consider implementation of the following measures:

Devalue	Detect Deter	er Defend	Protective Measures	Measure Implemented by
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				Security Program	
		Х	Х	Announce threat condition Red- SEVERE.	
			Х	Notify law enforcement of facility evacuation and closings.	
			Х	Maintain close contact with law enforcement and emergency management officials.	
Х	Х	Х		Cancel or delay all non-vital facility work conducted by contractors, or continuously monitor	
	_ ^	^		their work with company personnel as applicable.	
Χ			Х	Implement business contingency and continuity plans as appropriate.	
				Incident Response	
			Х	Activate emergency response and continuity business plan for the critical facility.	
			Х	Check all available emergency equipment.	
			Х	Prepare emergency operations center for use.	
Х			Х	Prepare to work with a dispersed, or skeleton, crew of essential employees.	
			Х	Implement business contingency and continuity plans as appropriate.	
Х			Х	Prepare to implement business recovery plans.	
			Х	Deploy emergency response and security teams.	
				Convene crisis management team and related response teams to manage and direct	
			Х	emergency response and/or business continuity/recovery plans in response to an imminent	
				threat or actual event that impacts the organization, its employees or third-party	
				vendors/suppliers, etc	
			Х	Operate the command center, if in existence, and staff it fully for 24/7.	
Х			Х	Prepare to close the facility, protect assets, and shut down equipment and systems in the	
			, ,	event of an evacuation.	
			Х	Assign the person or persons who, if anyone, will remain behind to protect and monitor the	
				facility. Determine how and when the facility will be reopened.	
Χ			Х	Prepare to evacuate personnel and items needed to support recovery operations.	
			Х	Prepare for "manual evacuation" of essential computer hardware and systems, including	
			V	support items needed for an alternate location of operations.	
			X	Check emergency supplies, restock if necessary, and place in a handy place.	
	_	1	X	Pre-position specially trained teams or emergency response personnel.	
			Х	Redirect personnel to address critical emergency needs.	
				Personnel Protection	
	X	X		Update personnel on escalating threat.	
			Х	Establish positive control on facility air intakes. Prevent all unfiltered air from reaching	
				staffed spaces.	
			Х	Ensure that guard force and shift supervisor/ watch sections have breathing apparatus, if	
				appropriate, and are prepared to evacuate or shelter-in-place.	
		1	Х	Evacuate all nonessential personnel.	
Χ			Х	Eliminate travel into an area affected by the criminal attack or an area that is a target of an	
		1		attack.	
Х			Х	Cancel attendance at non-critical or off-site meetings, conventions, symposia, etc	
				Infrastructure Interdependencies	
			Х	Implement plans to accommodate redirection or constraint of transportation.	·

## REFERENCES

Department of Homeland Security, Protective Security Division "Protective Measures Infrastructures" Information Guide March 11, 2005

## **RESOURCES**

#### REFERENCE

http://www.mipt.org/ Oklahoma City National Memorial Institute to Prevent Terrorism

http://www.mipt.org/First-Responders.asp Information for First Responders

http://www.tkb.org/Home.jsp Terrorism Knowledge Base

http://www1.rkb.mipt.org/ Responder Knowledge Base

http://www.mipt.org/Building-Security.asp Information for Building/Facility managers

#### TRADE PUBLICATIONS

http://www.drj.com/ Industry magazine for disaster recovery, emergency management and business continuity

http://www.drj.com/new2dr/newbies.htm special reference section for people new to the industry

http://www.drj.com/new2dr/toolchest/drjtools.htm reference materials

http://www.inptech.com/drj/login.php free subscription

http://www.disaster-resource.com/ general resource information, also has news alerts and articles

http://www.disaster-resource.com/cgi-bin/freeguide.cgi free subscription to annual directory of suppliers

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#### **GOVERNMENT AGENCIES**

Department of Homeland Security Division, Characteristics and Common Vulnerabilities, Infrastructure Category: Commercial Office Buildings and Office Parks, June 2004

#### http://www.ops.state.co.us/pdf/conditions.pdf

Colorado Office of Preparedness, Security, and Fire Safety

### http://www.fema.gov/

http://training.fema.gov/ Online and field training

http://training.fema.gov/EMIWeb/CERT/overview.asp Community Emergency Response Teams overview

### http://www.ready.gov/

http://www.ready.gov/business/index.html Plan to stay in business, Talk to your people, Protect your investment

http://www.ready.gov/index.html Prepare your family, Get a kit, make a plan, stay informed

#### http://www.redcross.org/

http://www.dola.state.co.us/ Colorado Department of Local Affairs

http://cdpsweb.state.co.us/ Colorado Department of Public Safety

http://www.dhs.gov/dhspublic/ Department of Homeland Security

https://www.llis.dhs.gov/ Lessons learned

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