Security Guidelines for Premises Storing/Handling Security Sensitive Materials (SSMs)

S/N	Area of Interest		Description	Recommended Measures
1	Perimeter Security	Perimeter barriers	Perimeter barriers are measures adopted along the boundary of the facility. They are normally the first layer of protection and provide both physical and psychological deterrents to unauthorised entry, thereby deterring or delaying such incidents from occurring.	Barriers to humans (such barriers should be at least 2.4m high) Concrete wall Brick wall Chain-linked fence Welded-mesh Pedestrian turnstiles fence
			 Different objectives for a perimeter barriers include: Marking an administrative border line of a private area. Preventing unintended entry of vehicles or people. Creating a stand-off line for a variety of threats. Deterring possible intruders. Preventing or delaying the intrusion of a person. Preventing the intrusion of a vehicle. Preventing or delaying an illegal exit from a confined area. An operative defence line for security guards or police. A line-of-sight blocking element. An architectural or landscape feature. 	Barriers to vehicles
		Monitoring and	Monitoring and detection equipment	Fence-mounted or open-area sensors

detection	are key components of effective perimeter security. Often, facilities will monitor for security incidents through a combination of human oversight and one or more electronic sensors or other intrusion detection systems. Typically, when a sensor identifies an event of interest, an alarm notifies the security personnel or assigned staff who will then assess the event directly at the location or remotely through surveillance images. To increase the reliability of a monitoring system, one may elect to deploy multiple interactive, redundant measures at the location of interest.	 Vibration detection sensors Video motion detection Infrared sensors Acoustic sensors Remote surveillance CCTV cameras (4 CIF, 6 frames/sec for indoor and 12 frame/sec for outdoors, 28 days archival with 10% buffer) Thermal images Internet Protocol (IP) cameras Human-based monitoring via security sentry or mobile patrol.
Security lighting	Security lighting increases visibility around perimeters, buildings, and sensitive locations and acts as a deterrent and detection tool. It should therefore be provided at the perimeter to allow security personnel to maintain visual observation during darkness both by direct surveillance and through the CCTV system. Sufficient lighting should be provided to ensure that the perimeter is well-lighted and that there are no blind spots. At a minimum, all access points, the perimeter and restricted areas should be illuminated from sunset to sunrise or during periods of low visibility. In	

	some circumstances, lighting may not be required, but these circumstances must be addressed in the building's security plan. Lighting however, also needs to be matched to the operating environment and this should be taken into consideration during planning.	detected, the security system or guard force can activate the standby lighting system for extra illumination. It can also be deployed at unattended/attended gates for extra lighting. Standby lighting differs from the continuous lighting in that only security personnel or the security system software have control over the system. This lighting system consists of manually operated movable light sources such as searchlights, which can be activated during the hours of darkness to cover specific areas
		as needed. Moveable lights are normally used to supplement continuous or standby systems. The emergency lighting system may duplicate the other three systems in whole or in part. Its use is normally limited to periods of main power failure or other emergencies. While security lighting should be connected to an uninterruptible power system when possible, emergency lighting should depend on a separate, alternate power source, such as portable generators or batteries.
Access control	Wherever a perimeter line is planned, points of access for vehicles and pedestrians are required at various points along the line. These points are usually regarded as the weak links of the perimeter as they require a breach in the protective line every time they are opened. Access points control the	Position the entry control point to allow adequate visual assessment of approaching vehicles. Allow adequate passage for a vehicle that has been denied access at the security check to exit without having to enter the site or move vehicles in queue.

2 General Premise Access Con	time and people permitted to enter a building or facility. In addition to controlling passage, access management usually includes the ability to observe and track movement in and out of controlled areas. The entry points through a perimeter line will typically consist of vehicle gates, pedestrian gates, and in some cases, a guard post. The entry points provide places where the required level of vehicle or pedestrian screening and access control can be implemented. The challenge of designing an entry point is to prevent unauthorised access while maximising the flow of authorised access by pedestrians or vehicles.	line should provide the same level of protection against vehicles and intruders as that provided by the rest of the perimeter line. Entrances should be designed in such a way as to enable access control to be implemented either for unattended entry using an access control system or by guards. Sufficient space should be allocated for proper inspection and for communication (which may be at a distance) between the people entering and those responsible for approving access. Ascertain and verify the purpose of the visit such as checks of government issued photo identification or letters of appointment. Providing company or facility issued photo IDs to individuals permitted access to the facility or restricted areas of the facility that identify: Employees Regular contractors Temporary contractors Visitors
2 General Premise Access Con Security	This is focused on the identification and securing of cleared personnel who have already been granted permission to enter the facility. The primary component of a successful	individuals permitted access to the facility or restricted areas of the facility that identify different group of personnel
	primary component of a succession	Employees

	access control system if knowing who is allowed on-site. Personnel identification measures help a facility quickly determine whether or not an individual is permitted access to a facility or a restricted area.	Temporary contractors
Monitoring and detection	Monitoring and detection equipment are key components of effective perimeter security. Often, facilities will monitor for security incidents through a combination of human oversight and one or more electronic sensors or other intrusion detection systems. Typically, when a sensor identifies an event of interest, an alarm notifies the security personnel or assigned staff who will then assess the event directly at the location or remotely through surveillance images. To increase the reliability of a monitoring system, one may elect to deploy multiple interactive, redundant measures at the location of interest.	Vibration detection sensorsVideo motion detection
General security policy	Prescribe a company security policy to inculcate a security mindset and enhance security awareness.	Regular training and awareness for new and existing employees. Identify suspicious indicators and report incidents to relevant staff and authorities.

				Develop SOPs specifying response during contingencies, and hold periodic exercises to ensure staff are familiar
3	Critical Facility Security	Access Control	This is focused on the identification and securing of cleared personnel who have already been granted permission to enter the facility, particularly the critical site/facility. The primary component of a successful access control system if knowing who is allowed on-site. Personnel identification measures help a facility quickly determine whether or not an individual is permitted access to a facility or a restricted area.	Providing company-issued photo IDs to individuals permitted access to the facility or restricted areas of the facility that identify different group of personnel Employees Regular contractors Temporary contractors Visitors Electronic access control measures Tap card readers Biometric readers Open door detectors (magnetic switches) Access control management software Access control management stations Manual access control measures Regulated key access Sign-in and sign-out procedures
		Monitoring and detection	Monitoring and detection equipment are key components of effective perimeter security. Often, facilities will monitor for security incidents through a combination of human oversight and one or more electronic sensors or other intrusion detection systems. Typically, when a sensor identifies an event of interest, an alarm notifies the	Vibration detection sensors

Inventory control and stock keeping	security personnel or assigned staff who will then assess the event directly at the location or remotely through surveillance images. To increase the reliability of a monitoring system, one may elect to deploy multiple interactive, redundant measures at the location of interest. Stock keeping refers to the maintenance of a system, either electronic or manual, of keeping track of the SSMs which are stored/handled/processed in the facility. Such information can include but is not limited to the following: type of SSMs, amount used, amount disposed and location. Information should be readily available.	Internet Protocol (IP) cameras Human-based monitoring Staff to keep a look out for unfamiliar, suspicious characters and suspicious activities within the facility and notify relevant staff upon detection. Lists all the hazardous materials at the covered facility Provides tracking of the quantity and the physical location of each hazardous material Monitors use by authorized personnel Tracks disposal and maintains a record of disposed containers Contains purchasing/receiving records for materials management Provision of a locked rack or other tamperevident, physical means of securing man portable containers of theft/diversion hazardous materials. Examples include: Chains and locks that cannot be cut or breached with man-powered tools Entry/motion detectors and alarms for the buildings or rooms where the containers
Quality Control	Prevent attempts to intentionally disrupt the operations of the facility to	

Annex A

cause harm and injuries.	security systems and systems related to security, such as communications and emergency notification equipment. The procedure should identify responsibilities, tasks, their frequencies of occurrence, and the documentation required
	Perform inspection, testing, and maintenance tasks on a regular basis and in accordance with the manufacturer's instructions
	Include all security equipment, such as gates, cameras, lights, alarms, and keypad entry systems, in the routine inspection and maintenance
	Employ appropriate security measures when performing maintenance, as well as in response to non-routine outages, equipment failures and malfunctions
	Document non-routine incidents and promptly report them to the Security Officer in charge
	Have procedures to verify the identity and each occurrence of contractor personnel who perform inspection, testing, and maintenance of security equipment