



FACILITY INSPECTOR – CYBER JOB AID

Sensitive Security Information (when filled out)

Facility:	FIN:
MISLE Activity #:	Date:
Unit:	FSO:
USCG Facility Inspector:	FSO Phone Number
USCG Facility inspector:	USCG Facility Inspector:

Facility Inspector - Cyber Job Aid – It is recommended that Coast Guard facility inspectors complete this job aid for familiarization with cyber activities at MTSA-regulated facilities. This job aid is not a substitute for applicable legal requirements, nor is it itself a rule. The inspector should consult NVIC 01-20 and applicable sections in NVIC 03-03 (current series) for references.

Preface

There are many resources, technical standards, and recommended practices available to marine industry that can help with the governance of cyber risk. Facilities are encouraged to be familiar with cyber security and cyber risk management guidance such as released by the National Institute of Standards and Technology (NIST). Coast Guard facility inspectors and facility owners/operators should be familiar with those resources to promote a culture of proactive cyber risk management.

This job aid is NOT intended to be regulatory and is only meant to assist facility inspectors in applying the cyber guidance and regulations when conducting facility inspections and reviewing cyber components of a Facility Security Assessment (FSA) and Facility Security Plan (FSP). This job aid addresses items covered by regulation as well as best practices and general cyber security observations. Checking NO on the job aid warrants further discussion with the facility and does not necessarily mean a discrepancy or violation during the inspection or review of the FSA or FSP.

Many MTSA-regulated facilities will have two separate cyber-enabled systems: Information Technology (IT) and Operational Technology (OT) based. IT systems support daily tasks associated with administration, finances, human resources, and other applications that typically support non-operational activities. Examples include computer workstations, laptops, servers, and the Internet. OT equipment supports operational activities within a facility such as chemical processing, cargo handling, and security access control. The inspector should become familiar with how OT systems interact with security access control systems and discuss with the facility. Likewise, possessing knowledge on the convergence of IT and OT systems to support daily operations within facilities is vital to understanding that traditional IT threats (such as ransomware and viruses) can affect OT operations.

Sensitive Security Information (when filled out)

33 CFR 105 Reference(s) 33 CFR 105.305 (d)(2)(v) Has the facility ever conducted a cyber security assessment? Y □ N □ N/A □ Having a third party or internal audit should address IT and/or OT cyber vulnerabilities within the facility or the organization. Y □ N □ N/A □ Are cyber security assessment reports shared with the FSO/AFSO and upper management? Y □ N □ N/A □ The FSO/AFSO should be aware of the cyber-physical vulnerabilities and administrative network discrepancies that could lead to a security incident. Y □ N □ N/A □ If a cyber assessment has been completed, are operations personnel included in the assessment process? Y □ N □ N/A □ Operations personnel that are knowledgeable on the OT systems within the facility can help identify cyber weaknesses and administrative vulnerabilities on the Industrial Control (ICS) systems. N □ N/A □ Is the physical infrastructure of networks and networked security equipment assessed during the annual physical security inspection? Y □ N □ N/A □	Facility Cyber Security Assessments				
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security equipment assessed during the annual physical		atworked	V		
			I		IN/A ∟
Do IT staff or cyber security personnel participate in the $Y \square$ $N \square$ $N/A \square$	Do IT staff or cyber security personnel particip	ate in the	Υ□	ΝΠ	N/A 🗌
annual physical security inspection?					
If no, IT staff/cyber security personnel are highly encouraged	 If no. IT staff/cvber security personnel are high	lv encouraged			
to participate for security program integration and		•			
familiarization of FSO duties/responsibilities.	familiarization of FSO duties/responsibilities.				

Do facility IT personnel participate in the required facility security assessment? If no, IT staff/cyber security personnel are highly encouraged to participate for security program integration and familiarization of FSO duties/responsibilities.		Y 🗆	N 🗆	N/A 🗆
Cyber Security Administration and Organization				
33 CFR 105 Reference(s) 33 CFR 105.205 33 CFR 105.225				
Does the FSP address cyber security administration and organization?		Y 🗆	N 🗆	N/A 🗆
The cyber/IT portion of the FSP should be written to include (but not limited to) role identifications, incident response, and risk assessments.				
Does the facility document end user acknowledgements? All users (contractors and employees) should sign and acknowledge responsibilities while operating devices on the networks.		Y□	N 🗆	N/A 🗆
Are third party users vetted prior to access into a facility network? The facility should have a vetting process for third party companies that require access into the IT or OT networks. This includes the individuals that will be accessing the systems.		Υ□	N 🗆	N/A 🗆
Are cyber security vulnerabilities addressed due physical security audits? The IT staff should accompany the FSO/AFSO audits and address physical vulnerabilities that the information infrastructure.	during annual	Υ□	N 🗆	N/A 🗆

Does the facility audit the integrity of information networks	Υ□	N 🗆	N/A 🗆
throughout the organization?			
Internal audits of the integrity of the IT and OT networks are crucial to maintaining cyber resiliency. Examples of audits include (but are not limited to) penetration testing, updating incident response plans, verifying end user compliance with company policies. Penetration testing can include internal phishing tests, examining the overall health of the network (IT and OT) regularly, and ensuring that updates are regularly installed.			
Do security personnel conduct regular audits of facility access credentials?	Υ□	N 🗆	N/A 🗆
Security personnel (under the direction of the FSO) should audit site access credentials (if using site access badges in conjunction with TWIC on a set basis to ensure unauthorized personnel do not gain access to the facility.			
Are cyber security audit records retained on a fixed schedule?	Υ□	N 🗆	N/A 🗆
The facility should maintain cyber audit records (either conducted by a third party or internally) in conjunction with required physical security audit reports to maintain uniformity.			
Does the FSP have a system in place for revocation of physical and network access in the event of a termination, suspension, or transfer?	Υ□	N 🗆	N/A 🗆
Discontinuing physical and network access is important to preventing an intentional insider threat in the event of a change in employment status.			

Does the FSP address unauthorized mobile/person connections into operational technology system <i>Connecting personal or unauthorized devices in</i> <i>systems or operational technology systems press</i> <i>the physical security of the facility. Malicious se</i> <i>affect access control systems and software if int</i> <i>the facility network.</i>	s? tto either IT ents a risk to oftware could	Y 🗆	N 🗆	N/A 🗆
Personnel Training				
33 CFR 105 Reference(s)	33 CFR 105.20 33 CFR 105.21 33 CFR 105.21	.0		
Is the FSO/AFSO required to complete cyber set awareness training for the company? <i>Training can include computer-based or in pers</i> <i>Training courses are effective cyber defense me</i> <i>FSO/AFSO. These courses can either be provid</i> <i>company or third party entities.</i>	son courses. asures for the	Υ□	N 🗆	N/A 🗆
Are contract security staff/Personnel with Secur (PSDs) required to complete cyber security awa training? <i>Training can include computer-based or in pers</i> <i>Contract security staff should have a basic unde</i> <i>cyber security threats, delivered through compo</i> <i>training entities.</i>	son courses.	Υ□	N 🗆	N/A 🗆
Is the FSO/AFSO aware of cyber security incident mechanisms internally? The FSO/AFSO should know which internal entries in the event of a cyber incident.		Y 🗆	N 🗆	N/A 🗆

Are restrictions placed on access to sensitive files (i.e., security files, operational systems, etc.)?Files and network folders should be restricted to certain employees and contractors, particularly security and IT records.		Y	N 🗆	N/A 🗆
Drills and Exercises	22 CED 105 22	0		
33 CFR 105 Reference(s)	33 CFR 105.22	U		
Do required drills incorporate cyber security inc	vidents?	Y 🗆	N 🗆	N/A 🗆
Has the facility ever participated in a cyber secu	rity exercise?	Υ□	N 🗆	N/A 🗆
Does the FSO incorporate IT staff into required	drills?	Y 🗆	N 🗆	N/A 🗆
IT staff should be involved in drills and exercise subject matter experts in the event that a cyber s scenario is injected.				
Does the FSO incorporate facility operations pe cyber security drills?	rsonnel in	Υ□	N 🗆	N/A 🗆
Operations personnel that normally operate ICS equipment can help IT staff and security staff identify shortfalls in network security during a drill/exercise and provide subject matter expertise.				
Does the FSO incorporate contract security staff security drills?	f into cyber	Υ□	N 🗆	N/A 🗆
Contract security staff should be included in cyber security drills and exercises to ensure involvement in preventing a cyber security incident at the facility and on access control and other security systems.				
Do drills and exercises guide cyber security dev policy?	elopment and	Υ□	N 🗆	N/A 🗆
Drills and exercises should guide the continual cyber security in the FSP.	development of			

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Records and Documentation				
33 CFR 105 Reference(s)	33 CFR 105.225			
Does the facility keep records of cyber incident	s?	Y 🗆	N 🗆	N/A 🗆
Records may be kept in electronic format and should be protected against unauthorized deletion, destruction, or amendment.				
Are records of cyber security audits marked and stored as SSI?		Υ□	N 🗆	N/A 🗆
Does IT staff keep and maintain a record of sus activity?	picious network	Υ□	N 🗆	N/A 🗆
Records of suspicious network activity should be conveyed to the FSO/AFSO for situational awareness, particularly if the activity is discovered on or affects security systems.				
Response to Change in MARSEC Level				
33 CFR 105 Reference(s)	33 CFR 105.230)		
Are facility IT staff aware of physical security an increase in MARSEC level?	requirements for	Υ□	N 🗆	N/A 🗆
IT/cyber security staff should be aware of the FSP's requirements and responses to an increase in MARSEC level for network security.				
Do facility IT staff have a site-wide response to MARSEC level?	an increase in	Υ□	N 🗆	N/A 🗆
The FSO should be proactive in conveying the property of the p	likewise address			
Does the facility have offsite backup for securit	ty systems?	Υ□	N 🗆	N/A 🗆

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Communications				
33 CFR 105 Reference(s)	33 CFR 105.235	5		
Does the facility understand cyber Breach of Security and Suspicious Activity incident reporting requirements? <i>Reference: COMDT (CG-5P) Policy Letter 08-16 – Reporting</i> <i>Suspicious Activity and Breaches of Security</i>		Y 🗆	N 🗆	N/A 🗆
Are cyber incidents reported to company management for future mitigation policies?		Y 🗆	N 🗆	N/A 🗆
Procedures for Interfacing with Vessels and	Segmented Netw	orks		
33 CFR 105 Reference(s)	33 CFR 105.240 33 CFR 105.245			
Is cyber security awareness included as part of of Security (DOS) process? The FSO (or designate) should address cyber s such as connecting to onshore networks with the DOS process.	ecurity concerns	Y	N 🗆	N/A 🗆
Does the FSO (or designee) discuss reporting suspicious cyber activity with a visiting vessel? The FSO (or designee) should be proactive in discussing cyber incident prevention measures with the Vessel Security Officer (VSO).		Y 🗆	N 🗆	N/A 🗆
Are visiting vessels required to connect to a face network system? Operations and IT staff should communicate vi weaknesses discovered in shore-to-ship networ available).	Inerabilities and	Y 🗆	N 🗆	N/A 🗆
Are visiting vessels able to connect to facility we networks? Facilities should not have open wireless network have a password-enabled system to ensure no be security occur over the network.	rks, but instead	Y 🗆	N 🗆	N/A 🗆

Security Systems and Equipment Maintenance				
33 CFR 105 Reference(s)	33 CFR 105.250)		
Are access control systems and software update schedule?	ed on a set	Υ□	N 🗆	N/A 🗆
Do access control systems receive software/firr	nware updates?	Y 🗆	N 🗆	N/A 🗆
Does the FSO/AFSO or any other facility employee have the ability to remotely access security systems?		Υ□	N 🗆	N/A 🗆
Remote access should not be discouraged. Instead, proper security protocols should be in place to mitigate the chance of a cyber incident. Examples include strong passwords, use of a Virtual Private Network (VPN), and using trusted networks. The FSO/AFSO should team with IT staff to ensure maximum protection for remote access requirements.				
Are contractors or third party vendors vetted prior to introducing any devices to systems supporting the security program?		Υ□	N 🗆	N/A 🗆
Security Measures for Access Control				
33 CFR 105 Reference(s)	33 CFR 105.255			
Are devices and controllers for access control p locked in tamper-proof casings within the MTS footprint (i.e., turnstile controllers)?	-	Y 🗆	N 🗆	N/A 🗆
Are contract security staff routinely checking a devices and controllers at entry points?	ccess control	Υ□	N 🗆	N/A 🗆
Does the facility have designated personnel wh access control networks?	o monitor digital	Υ□	N 🗆	N/A 🗆
Are access control servers kept locked in restricted areas in the facility?		Υ□	N 🗆	N/A 🗆
Are security camera servers or supporting equip locked in restricted areas in the facility?	oment kept	Υ□	N 🗆	N/A 🗆
Are access control computers, access control ec access control records kept on backup power?	uipment, and	Υ□	N 🗆	N/A 🗆

Does the facility employ fire protection systems for the information infrastructure?	Y 🗆	N 🗆	N/A 🗆
Are access control points and equipment on backup power?	Υ□	N 🗆	N/A 🗆
Are security staff able to connect to outside connections that are not password protected or encrypted (i.e., open Internet) on devices supporting access control?		N 🗆	N/A 🗆
Does the facility keep a record of vendors/visitors that require access into the networks on the facility?		N 🗆	N/A 🗆
Are there different levels of access for credentialing software?		N 🗆	N/A 🗆
Do workstations automatically lock during inactivity?	Υ□	N 🗆	N/A 🗆
Security Measures for Restricted Areas			
<i>33 CFR 105 Reference(s)</i> 33 CFR 105.260			
Are spaces containing digital infrastructure locked or have access control systems in place? <i>Examples include server rooms, control rooms, access control</i> <i>equipment boxes, and central computer operating terminals.</i>		N 🗆	N/A 🗆
Are spaces containing digital infrastructure marked as restricted areas?		N 🗆	N/A 🗆
Are site-wide alarm computers physically secure?			
Are site-wide alarm computers physically secure?	Y 🗆	N 🗆	N/A 🗆
Are site-wide alarm computers physically secure? Is there a key control program in place throughout the facility for restricted areas containing digital infrastructure?	Y 🗆 Y 🗆	N 🗆 N 🗆	N/A 🗆 N/A 🗆

Security Measures for Handling Cargo				
33 CFR 105 Reference(s)	CFR 105 Reference(s) 33 CFR 105.265			
Do facility operators require portable media (i.e flash drives, etc.) exchanges during cargo hand		Y 🗆	N 🗆	N/A 🗆
Uncontrolled use of removable/portable media can increase the risk of malware being transferred to critical network systems.				
Does the facility allow wireless connections between ship and shore for cargo handling?		Υ□	N 🗆	N/A 🗆
Are interconnections shared between vessels and shoreside systems?		Y 🗆	N 🗆	N/A 🗆
Does the facility allow remote access for cargo handling?		Υ□	N 🗆	N/A 🗆
Would the facility restrict interconnections for MARSEC level increases?		Y 🗆	N 🗆	N/A 🗆
Security Measures for Delivery of Stores				
33 CFR 105 Reference(s)	33 CFR 105.270			
Does the facility require any third-party access for the delivery of stores?	to IT systems	Y 🗆	N 🗆	N/A 🗆
Does the facility have processes in place to protein files associated with the scheduling and deliver		Υ□	N 🗆	N/A 🗆
Are remote-controlled gates or doors used in th restricted portion of the facility for store deliver		Y 🗆	N 🗆	N/A 🗆
Security Measures for Monitoring				
33 CFR 105 Reference(s)	33 CFR 105.275	;		
Does the facility monitor networks that contain security equipment for unauthorized activity?	operational	Y 🗆	N 🗆	N/A 🗆
Examples of operational security equipment inca access control systems, intrusion detection syste credentialing applications.				

Are physical security measures in place to monitor physical access to central servers or controllers that support OT throughout the facility?		Y 🗆	N 🗆	N/A 🗆
Facility Security Plan (FSP) – Cyber Annex				
33 CFR 105 Reference(s)	33 CFR 105.400	(a)(3)		
Does the FSP address cyber security?		Υ□	N 🗆	N/A 🗆
If the facility has a cyber annex to their FSP, page 1	roceed to the belo	w questie	ons	
Is the cyber security annex marked as SSI?	Is the cyber security annex marked as SSI?		N 🗆	N/A
Does the cyber security annex to the FSP include incident response roles?		Υ□	N 🗆	N/A 🗆
Is the FSO/AFSO familiar with the cyber security elements in the FSP or cyber security annex?		Υ□	N 🗆	N/A 🗆
Is cyber security referenced in drills/exercises section?		Υ□	N 🗆	N/A 🗆
Audits and Security Plan Amendments			•	
33 CFR 105 Reference(s)	33 CFR 105.415	b (b)		
Are cyber security audits conducted at a set free	quency?	Υ□	N 🗆	N/A 🗆
Does the FSO/AFSO participate in cyber security audits?		Υ□	N 🗆	N/A 🗆
Are corrective action plans written after cyber security audits?		Υ□	N 🗆	N/A 🗆
If a cyber annex to the FSP is kept at the facility or by facility corporate offices, is the annex updated to reflect vulnerabilities found during previous cyber incidents?		Y 🗆	N 🗆	N/A 🗆

<u>Appendix A</u>

<u>Terms</u>

- Assessment: Evaluation against "best practices"
- Audit: Evaluation of compliance to a "standard"
- **IP Address:** Label assigned to a network device that communicates with the Internet Protocol
- Network Scan: Method of interrogating network devices over the "wire"
- **Penetration (pen) testing:** Method of testing a computer, network, web application for vulnerabilities
- **Security Integrator:** Third party vendor that provides security equipment and performs maintenance to a facility
- Vulnerability: A flaw in the system that can be open to attack/failure

Acronyms

- **AFSO:** Alternate Facility Security Officer
- **CBT:** Computer-Based Training
- CISA: Cybersecurity and Infrastructure Security Agency
- **FSO:** Facility Security Officer
- ICS: Industrial Control Systems
- **IT:** Information Technology
- NIST: National Institute of Standards and Technology
- **OT:** Operational Technology
- **PSD:** Personnel with Security Duties
- SSI: Sensitive Security Information
- VSO: Vessel Security Officer

Resources

- Maritime Transportation Security Act (MTSA) of 2002, Public Law 107-295
- Navigation and Vessel Inspection Circular No. 01-20 (current series), Guidelines for Addressing Cyber Risks at MTSA Regulated Facilities
- Navigation and Vessel Inspection Circular No. 03-03 (current series), Implementation Guidance for the Regulations Mandated by the Maritime Transportation Security Act of 2002 (MTSA) for Facilities
- Navigation and Vessel Inspection Circular No. 09-02 (current series), Guidelines for the Area Maritime Security Committees and Area Maritime Security Plans for U.S. Ports
- CG-5P Policy Letter 08-16, Reporting Suspicious Activity and Breaches of Security
- National Institute of Standards and Technology (NIST) SP 800-53, Rev 4