Cyber Risk Management Policy



Objective

Systems by implementing measures to protect against operational, safety or security failures as a consequence of information or systems being intentionally or unintentionally corrupted, hacked, lost or compromised

Scope

This should be considered as best practice for all systems but as a minimum must apply Operational technology and Information technology related to the following functions:

- ▶ BRIDGE and SAFETY CENTER SYSTEM
- MACHINERY AUTOMATION, POWER MANAGEMENT, STEERING AND PROPULSION CONTROL SYSTEM
- ► REMOTE COMMUNICATION /ACCESS SYSTEMS

Scope

- Whilst not mandatory at this stage systems related to the following functions should be prioritized for full inclusion into it:
 - PASSENGER SERVICING AND MANAGEMENT SYSTEMS
 - ► PASSENGER FACING PUBLIC NETWORKS
 - ► ADMINISTRATIVE AND CREW WELFARE SYSTEMS

Philosophy

- ► All of this is based on MSC-FAL1 Circ.3 Guidelines on Maritime Cyber Risk Management
- Cyber Risk Management is a continuos process of development, monitoring and improvement

Philosophy

- ▶ The process is divided into five main elements:
- Identify the relevant measures before cyber incidents occur including conducting cyber risk assessments
- Protect the systems by developing and implementing safeguards including awareness training, access control and network segmentation
- Detect possible cyber incidents by developing and implementing appropriate activities including implementing continuous monitoring processes

Philosophy

- Respond to detected cyber incidents is an apporpriate way including response plan and mitigating actions
- Recover services disturbed by cyber incidents including a recovery plan

Process: IDENTIFY

- ► The head of Cyber Risk management must ensure that cyber risk are identified and assessed using the following:
- A register is developed and maintened of essential IT/OT systems including hardware, data flow, software
- Each essential IT/OT system is assigned a responsible Owner and that system owner and responsabilites are clearly defined
- A cyber risk assessment is undertaken and maintened over time and that resulting risk control processes, measures and contingency plans keep risks at tolerable/acceptable levels

Process: PROTECT

- We must ensure that effective safeguards are in place to protect the following items:
- Systems are configured for their specifics needs and ,where appropriate only used for their designated purposes
- Effective cyber risk management and security awareness training programs are in place
- Systems are protected by appropriate physical security measures
- ► Networks are apporpriately segmented to limit any undesirable interactions between systems, personnel and outside threat vectors

Process : PROTECT

- Cyber resilience requirments are defined and applied during procurement and newbuild and whereverpractical, suppliers are contractaully requuired to design-in cyber resilience and ensure long term support
- Access rights and permissions for shoreside ,shipboard and remote systems are appropriately controlled,checked,including password lenght ,complexity and expiry
- Remote access is limited to authorized trained personnel and ,where practical,individually authorized on each occasionn remote access interventions are made

Process : PROTECT

- Systems have appropriate anti-malware software installed and running and that virus definitions are regularly updated
- Security patches are regularly assessed, verified and implemented
- Strong porcesses are in place to ensure that removable devices are only used where necessary and are free from malware before usage

Protect: DETECT

- We must ensure that methods ,tools and process are always implemented to detect cyber incidents in a timely manner ,with attention concentrated on the loss f system integrity,conficentiality,availability
- Detection scope must cover all essential systems
- Cyber risk management and security awareness training programs include requirements for all system users to promptly report any abnormal event or security concern
- Procedures are in place to ensure detected cyber incidents are recorded,managed, investigated and that resultant corrective actions are implemented in a timely manner

Respond and recover

- We must ensure that:
- Cyber incident response and revovery plans which prioritize restoration of essential services, operations and capabilities in a timely manner are developed and maintened. these plans must be aligned with the Company Emergency response plan
- Training programs for cyber incident response and recovery are developed,implemented and maintened
- Cyber incident drill programs are implemented to reguarly test the cyber incident response and recovery plan

Thank u!!!!!!

