DeepShield ICS Security Compliance Framework 2023

1. Introduction and Purpose

1. This Industrial Control System (ICS) Security Compliance Framework ("Framework") establishes the mandatory security controls, protocols, and compliance requirements for DeepShield Systems, Inc. ("DeepShield") and its integrated industrial cybersecurity platform.

2. This Framework is designed to ensure compliance with applicable regulatory requirements while implementing DeepShield's proprietary deep-layer security architecture for protecting critical infrastructure and operational technology environments.

2. Scope and Applicability

1. This Framework applies to all DeepShield products, services, and operations related to:

a) Industrial automation systems

b) SCADA networks

c) Maritime and subsea infrastructure

d) Manufacturing operations technology

e) Critical infrastructure protection systems

2. All employees, contractors, and third-party service providers accessing or managing DeepShield systems must comply with this Framework.

3. Regulatory Compliance Standards

1. DeepShield's Framework incorporates requirements from:

- NIST SP 800-82 Guide to ICS Security
- IEC 62443 Industrial Network and System Security
- NERC CIP Standards
- Maritime Cybersecurity Framework (BIMCO)
- ISO/IEC 27001:2022 Information Security Management

2. Where conflicts exist between standards, the more stringent requirement shall apply.

4. Security Control Requirements

1. Network Segmentation and Access Control

a) Mandatory implementation of DeepShield's proprietary OT network isolation protocol

b) Multi-factor authentication for all privileged access

c) Role-based access control (RBAC) implementation

d) Regular access rights review and attestation

2. Threat Detection and Response

a) Continuous AI-driven monitoring of OT networks

b) Real-time anomaly detection using DeepShield's behavioral analysis engine

c) Automated incident response protocols

d) Mandatory incident reporting within 4 hours of detection

3. System Hardening

a) Regular vulnerability assessments

b) Quarterly penetration testing

c) Security patch management

d) Baseline configuration management

5. Maritime and Subsea Infrastructure Protection

1. Specialized Controls

a) Subsea control system isolation

b) Maritime-specific threat detection

c) Vessel cybersecurity requirements

d) Offshore platform protection measures

2. Compliance with International Maritime Organization (IMO) Guidelines

a) Resolution MSC.428(98) compliance

b) Maritime cyber risk management

c) Port facility cybersecurity

6. Audit and Assessment

1. Internal Audit Requirements

- Quarterly security control assessments
- Annual comprehensive framework review
- Continuous compliance monitoring
- Regular penetration testing

2. External Audit Requirements

- Annual third-party security assessment
- Regulatory compliance verification
- Client audit support protocols

7. Incident Management and Reporting

1. Incident Classification

- Level 1: Critical Infrastructure Impact
- Level 2: Operational Disruption
- Level 3: Security Event
- Level 4: Policy Violation

2. Response Requirements

- Mandatory incident documentation
- Escalation procedures
- Stakeholder notification protocols
- Post-incident analysis

8. Training and Awareness

1. Required Training Programs

- Annual security awareness training
- Quarterly technical updates
- Role-specific security training
- Incident response drills

9. Framework Updates and Maintenance

1. This Framework shall be reviewed and updated:

- Annually at minimum
- Following major security incidents
- Upon significant regulatory changes
- As required by threat landscape evolution

10. Compliance Declaration

The undersigned affirm that this Framework has been reviewed and approved as the governing document for DeepShield Systems, Inc.'s ICS security compliance program.

Effective Date: January 1, 2023

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