

## U.S. NUCLEAR REGULATORY COMMISSION

# STANDARD REVIEW PLAN

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13.6.6 CYBER SECURITY PLAN

**REVIEW RESPONSIBILITIES** 

**Primary** - Office of Nuclear Security and Incident Response

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Secondary - None

AREAS OF REVIEW

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For the Cyber Security Plan (CSP), the U.S. Nuclear Regulatory Commission (NRC) evaluates the applicant/sapplicant/licensee's plan to provide high assurance that the digital computer and communication systems and networks associated with safety, security, and emergency preparedness (SSEP) functions, as well as support systems and equipment, which if compromised, would adversely impact safety, security, or emergency preparedness functions, are adequately protected against cyber attacks. This requirement is codified in Title 10 of the Code of Federal Regulations (CFR), Section 73.54, "Protection of Digital Computer and Communication Systems and Networks." ApplicantsApplicant/licensees must identify those assets that must be protected against cyber attacks; establish, implement, and maintain a cyber security program for the protection of the assets; and ensure that the cyber security program is incorporated into the physical protection program. The cyber security program must implement security controls to protect Critical Digital Assets (CDA) from cyber attacks, apply and maintain defense-in-depth (D3DEFENSE-IN-DEPTH) protective strategies, mitigate the effects of cyber attacks, and ensure that the functions of the CDAs are not adversely impacted by the cyber attacks. The cyber security program must include adequate

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#### **USNRC STANDARD REVIEW PLAN**

This Standard Review Plan (SRP), NUREG-0800, has been prepared to establish criteria that the NRC staff responsible for the review of applications to construct and operate nuclear power plants intends to use in evaluating whether an applicant/licensee meets the NRC's regulations. The SRP is not a substitute for the NRC's regulations, and compliance with it is not required. However, an applicant/licensee is required to identify differences between the design features, analytical techniques, and procedural measures proposed for its facility and the SRP acceptance criteria and evaluate how the proposed alternatives to the SRP acceptance criteria provide an acceptable method of complying with the NRC regulations.

The SRP sections are numbered in accordance with corresponding sections in Regulatory Guide (RG) 1.70, "Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants (LWR Edition)." Not all sections of RG 1.70 have a corresponding review plan section. The SRP sections applicable to a combined license (COL) application for a new light-water reactor (LWR) are based on RG 1.206, "Combined License Applications for Nuclear Power Plants (LWR Edition)."

These documents are made available to the public as part of the NRC's policy to inform the nuclear industry and the general public of regulatory procedures and policies. Individual sections of NUREG-0800 will be revised periodically, as appropriate, to accommodate comments and to reflect new information and experience. Comments may be submitted electronically by e-mail to NRR SRP@nrc.gov.

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training, evaluate and manage cyber risk, and ensure that the cyber security performance objectives for CDAs are maintained during modifications. The applicant/licensee must establish, implement, and maintain a CSP that implements the cyber security program requirements of 10 CFR 73.54. The applicant/licensee must develop and maintain written policies and procedures to implement the CSP. The applicant/licensee must review the cyber security program as a component of the physical security program in accordance with the requirements of 10 CFR 73.55(m), including the periodicity requirements. The applicant/licensee must retain all records and supporting technical documentation required to satisfy the recordkeeping requirements of 10 CFR 73.54 until the Commission terminates the license for which the records were developed. The applicant/licensee must also maintain the superseded portions of such records for at least 3 years after the record is superseded, unless otherwise specified by the Commission. Formatted: Highlight The scope of the review is programmatic. The NRC staff does not review design information contained in the CSP. Field Code Changed Formatted: Highlight Specific information to be reviewed, referenced to applicable sections of 10 CFR 73.54, includes the following: Formatted: Highlight the purpose and scope of the applicant/licensee's cyber security program (10 CFR 73.54(a)) Formatted: Highlight the performance basis of the applicant/licensee's cyber security program (10 CFR 73.54(c) and 10 CFR 73.54(e)) Formatted: Highlight a discussion of the licensee's formal, documented security planning, assessment, and authorization policy (10 CFR 73.54(f)) Formatted: Highlight a discussion of the applicant'sapplicant/licensee's cyber security training (10 CFR 73.54(d)(1)) Formatted: Highlight a discussion of the applicant's applicant/licensee's identification of CDAs (10 CFR 73.54(b)(1)) Formatted: Highlight a discussion of the applicant's applicant/licensee's reviews and validation testing of critical systems (CS) and CDAs (10 CFR 73.54(b)(2)) the applicant/sapplicant/licensee's defense-in-depth (D3DEFENSE-IN-DEPTH) protective strategies (10 CFR 73.54(c)(2)) 8. a discussion of the application of security controls (10 CFR 73.54(c)(1)) 9. a discussion of the incorporation of the cyber security program into the physical protection program (10 CFR 73.54(b)(3)) a discussion of policies and implementing procedures for the cyber security program 10. (10 CFR 73.54(f)) a discussion of continuous monitoring and assessment (10 CFR 73.54(b)(2) and 11. 10 CFR 73.54(d)(2)) 13.6.6-2 Revision 0 - May 2010

- a discussion of periodic assessment of security controls (10 CFR 73.54(b)(2) and 10 CFR 73.54(d)(2))
- 13. a discussion of effectiveness analysis (10 CFR 73.54(b)(2) and 10 CFR 73.54(d)(2))
- 14. a discussion of vulnerability assessments and scans (10 CFR 73.54(b)(2) and 10 CFR 73.54(d)(2))
- 15. a discussion of change control processes (10 CFR 73.54(d)(3))
- a discussion of configuration management (10 CFR 73.54(d)(3), 10 CFR 73.54 (f), and 10 CFR 73.54 (g))
- 17. a discussion of the security impact analysis of changes (10 CFR 73.54(d)(3))
- 18. a discussion of security reassessment and authorization (10 CFR 73.54(d)(3))
- 19. a discussion of the updating of cyber security practices (10 CFR 73.54(f))
- a discussion of the review and validation testing of a modification or addition of a CDA (10 CFR 73.54(d)(3))
- a discussion of the application of security controls associated with a modification or addition (10 CFR 73.54(c)(1) and 10 CFR 73.54(d)(3))
- 22. a discussion of the cyber security program review (10 CFR 73.54(g))
- 23. a discussion of document control and records retention and handling (10 CFR 73.54(h))

#### Operational Program Description and Implementation

For a combined license (COL) application, the NRC staff reviews the CSP description and the proposed implementation milestones. The NRC staff also reviews the table of operational programs required by NRC regulations in the final safety analysis report (FSAR) to ensure that the CSP and associated milestone is included.

### Review Interfaces

Other required Standard Review Plan (SRP) sections interface with this section as follows:

- 1. SRP Section 13.6, "Physical Security"
- 2. SRP Section 13.4, "Operational Programs" (For COL reviews of operational programs, the review of the applicant/sapplicant/licensee's implementation plan is performed under this section.)

II. ACCEPTANCE CRITERIA

Acceptance criteria are based on meeting the relevant requirements of the following Commission regulations:

I. 10 CFR 73.54

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2. 10 CFR 73.55(a)(1), 10 CFR 73.55(b)(8), and 10 CFR 73.55(m)

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 Appendix G, "Reportable Safeguards Events," to 10 CFR Part 73, "Physical Protection of Plants and Materials" Formatted: Highlight

4. 10 CFR 73.58, "Safety/Security Interface Requirements for Nuclear Power Reactors"

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Specific criteria acceptable to meet¹ the relevant requirements of the Commission's regulations identified above are as follows for each review described in Section I of this SRP section:

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The security plan is considered acceptable if it conforms to Regulatory Guide (RG) 5.71, ""Cyber Security Programs for Nuclear Facilities."," the most recent NRC-approved NEI 08-09, "Cyber Security Plan for Nuclear Power Reactors," or any other NRC approved set of guidelines.

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1. As required by 10 CFR 73.54, an applicant/licensee or licensee must provide a high assurance that digital computer and communication systems and networks are adequately protected against cyber attacks, up to and including the design-basis threat (DBT) described in 10 CFR 73.1, "Purpose and Scope."

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2. As required by 10 CFR 73.55(a)(1) and 10 CFR 73.55(b)(8), an applicant/licensee or licensee must submit a CSP and establish, maintain, and implement a cyber security program.

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- As required by 10 CFR 73.55(m)(2), an audit of the effectiveness of the cyber security program must be conducted. Applicants' physical security plans should address the other cyber requirements found in 10 CFR 73.55, "Requirements for Physical Protection of Licensed Activities in Nuclear Power Reactors against Radiological Sabotage."
- Appendix G to 10 CFR Part 73 requires licensees to report or record, as appropriate, the following safeguards events:
  - any event in which there is reason to believe that a person has committed or caused, or attempted to commit or cause, or has made a credible threat to commit or cause:
    - i. significant physical damage to a power reactor
    - ii. interruption of normal operation of a licensed nuclear power reactor through the unauthorized use of or tampering with its machinery, components, or controls including the security system
  - B. any failure, degradation, or the discovered vulnerability in a safeguard system that could allow unauthorized or undetected access to a protected area or vital

<sup>&</sup>lt;sup>1</sup> The SRP is not a substitute for the NRC's regulations, and compliance with it is not required. However, in accordance with 10 CFR 50.34(h), an applicant/licensee is required to identify differences between the design features, analytical techniques, and procedural measures proposed for its facility and the SRP acceptance criteria. The applicant/licensee must also evaluate how the proposed alternatives to the SRP acceptance criteria provide an acceptable method of complying with the NRC regulations.

An actual entry of an unauthorized person into a protected area The actual or attempted introduction of contraband into a protected area any failure, degradation, or discovered vulnerability in a safeguards system that could have allowed unauthorized or undetected access to a protected area or vital area had compensatory measures not been established any other threatened, attempted, or committed act not previously defined in Appendix G to 10 CFR Part 73 with the potential for reducing the effectiveness of the safeguards system below that committed to in a licensed physical security or contingency plan or the actual condition of such reduction in effectiveness Formatted: Highlight As required by 10 CFR 73.58(b), 10 CFR 73.58(c), and 10 CFR 73.58(d), licensees must assess and manage the potential for adverse effects on safety and security, including the site emergency plan, before implementing changes to plant configurations, facility conditions, or security. The scope of changes to be assessed and managed must include planned and emergent activities (such as, but not limited to, physical modifications, procedural changes, changes to operator actions or security assignments, maintenance activities, system reconfiguration, access modification or restrictions, and changes to the security plan and its implementation). If potential conflicts are identified, the licensee must communicate them to appropriate licensee personnel and take compensatory or mitigative actions or both to maintain safety and security under applicable Commission regulations, requirements, and license conditions. Formatted: Highlight Operational Programs For COL reviews, the NRC staff will review the description of the operational program and proposed implementation milestone for the CSP in accordance with 10 CFR 73.54. The implementation milestone occurs before the fuel leadarrives on-site. Formatted: Highlight Technical Rationale The following paragraphs discuss the technical rationale for applying these acceptance criteria to the review of this SRP section.

The NRC regulations at 10 CFR 73.54 include the cyber security program requirements for power reactor licensees. Subsequent to the events of September 11, 2001, the NRC issued orders to require power reactor licensees to implement measures to enhance cyber security. These security measures require an assessment of cyber systems and the implementation of corrective measures sufficient to provide protection against the cyber threats at the time the orders were issued. The requirements maintain the intent of the security order by establishing the requirement for a cyber security program to protect digital computer and communication systems and networks that, if compromised, can adversely impact SSEP. This includes support systems and equipment.

area for which compensatory measures have not been employed.

C.

D.

E.

F.

Recently, the NRC revised 10 CFR 73.55 to codify the cyber security requirements for NRC-licensed power reactors. In particular, 10 CFR 73.55(a)(1) and 10 CFR 73.55(b)(8) require that an applicant or licensee submit a CSP and establish, maintain, and

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implement a cyber security program. Finally, 10 CFR 73.55 requires an audit of the effectiveness of the cyber security program at least every 24 months.

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3. Appendix G to 10 CFR Part 73 requires licensees to report or record, as appropriate, safeguards events. These events include cyber attacks.

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 As required by 10 CFR 73.58, licensees must assess and manage the potential for adverse effects on safety and security, including the site emergency plan, before implementing changes to plant configurations, facility conditions, or security.

## III. REVIEW PROCEDURES

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The purpose of the review procedures is to determine whether a CSP conforms to the guidance in RG 5.71, the provisions of applicable NRC regulations, the information requirements of Section I above, and the acceptance criteria of Section II above. Table 1 provides a checklist for reviewers to use when reviewing the body of the CSP. Table 2 and Table 3 provide listings of security controls with time associations. Reviewers can use these for comparison with the frequencies in the CSPs being reviewed.

Table 1 - Acceptance Review Checklist for Cyber Security Plan Evaluation

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	and Content				Accept with		
	Guide	Requirement	Acceptance Criteria	Accept	RAI	D۵	ject
ŀ	RG 5.71	Requirement	Introduction	Accept	IVAI	IVE	Jeci
ŀ	A.1	As required by	Licensees and applicants must				
	6.1	10 CFR 73.54(e) and 10 CFR 73.55(c)(6), licensees and applicantsapplicant/licen sees must establish, implement, and maintain a cyber security program for each site to protect digital computer and communication systems and networks from cyber attacks, up to	establish, implement, and maintain a cyber security program for each site. Licensees and applicants may comply with the requirements of 10 CFR 73.54 by implementing the guidance in RG 5.71.				
	A.2	and including the DBT described in 10 CFR 73.1.	Cyber Security Plan				
ļ	A.2.1	Coope and Durness	Cyber Security Plan			_	
ŀ	A.Z.1	Scope and Purpose	The CCD describes the following:				
		Required by 10 CFR 73.54(e), this plan describes how licensees and applicantsapplicant/licen sees will establish a cyber security program to achieve high assurance that digital systems, networks, and communication systems are protected.	<ul> <li>implementation and documentation of the "baseline" security controls, as described in SectionRegulatory Position C.3.3 of RG 5.71</li> <li>implementation and documentation that the cyber security program employs a life-cycle approach to maintain security controls, as described in Section Regulatory Position C.4. of RG 5.71.</li> </ul>				

A.2.2	Performance-Based Requirements			
	A licensee must establish, implement, and maintain the CSP, as required by 10 CFR 73.55(e). As required by 10 CFR 73.54(b)(3), cyber security is a component of the physical protection program.	The CSP establishes how digital computer and communication systems and networks within the scope of 10 CFR 73.54 will be adequately protected from cyber attacks up to and including the DBT.		
A.3		ber Security Program Implementa	tion	
	A licensee must establish, implement, and maintain a program that complies with the requirements of 10 CFR 73.54(b)(2) and 10 CFR 73.55(b)(8) to protect systems within the scope of 10 CFR 73.54(a)(1).	<ul> <li>The CSP complies with 10 CFR 73.54 as follows:</li> <li>establishes and implements the defensive model described in Section 3.15 of this plan, with the security controls described in Sections C.3.1, C.3.2, and C.3.3 of RG 5.71</li> <li>maintains the program described in Section C.4 of RG 5.71</li> <li>ensures that documentation of security controls is available for each CDA for inspection</li> <li>ensures that the NRC will approve any changes that decrease the effectiveness of the plan</li> <li>ensures that reports of any cyber attacks or incidents at the site are made to the NRC as required by 10 CFR 73.71, "Reporting of Safeguards Events" and Appendix G, "Reportable Safeguards Events," to 10 CFR Part 73, "Physical Protection of Plants and Materials."</li> </ul>		

A.3.1	Analyzing Digital Comput	er Systems		
A.3.1.1	Security Assessment and Authorization			
	As required by 10 CFR 73.54(f), licensees must develop and maintain policies and procedures to implement the CSP.	The CSP discusses the following policies and procedures:  • a formal documented security planning, assessment, and authorization policy that describes the purpose, scope, roles, responsibilities, management commitments, and coordination among departments and the implementation of the security program and the controls listed in Appendices B and C to RG 5.71  • a formal documented procedure to facilitate the implementation of the cyber security program and the security assessment		

A.3.1.2	Cyber Security Team			
	In order to comply with 10 CFR 73.54(c)(2), licensees should establish and maintain a defense in depth protective strategies.	The CST should have the authority to conduct an objective assessment, make determinations, implement the defense-in-depth protective strategies, and implement the security controls using the process in Section C.3.3 of RG 5.71.  The CST must have broad knowledge in the following areas:  • information and digital system technology:  - cyber security  - software development  - communications  - systems administration  - computer engineering  - networking — site and corporate networks  - programmable logic controllers  - control systems  - distributed control systems  - computer systems and databases used in design, operation, and maintenance of CDAs		
		nuclear facility operations, engineering and technical specifications		
		physical security and emergency preparedness systems and programs		

In order to comply with 10 CFR 73.54(d)(1), the CST should have particular roles and responsibilities.

The submitted CSP lists the roles and responsibilities for the CST, which include the following:

- Perform or oversee each stage of cyber security management processes.
- Document all key observations, analyses, and findings during the assessment process so that information can be used in the application of security controls.
- Evaluate or reevaluate assumptions or conclusions about current cyber security threats.
- Evaluate or reevaluate assumptions or conclusions about potential vulnerabilities to, and consequences from, an attack.
- e Evaluate or reevaluate assumptions or conclusions about the effectiveness of existing cyber security controls, defensive strategies, and attack mitigation methods; and cyber security awareness and training of those working with, or responsible for, CDAs and cyber security controls throughout their system life cycles.
- Confirm information from reviews of CDAs and connected digital devices and associated security controls with physical and electronic validation activities.

	<ul> <li>As needed, identify and implement new cyber security controls.</li> <li>Document the implementation of alternate or compensating measures in lieu of any security controls (Appendices B and C of RG 5.71).</li> <li>Document the basis for not implementing certain controls (Appendix B to RG 5.71).</li> <li>Prepare documentation and oversee implementation of security controls (Appendices B and C to RG 5.71).</li> <li>Retain all documentation in accordance with 10 CFR 73.55(q) and Section C.5 of RG 5.71.</li> </ul>		
As required by 10 CFR 73.54(d)(2), the CST conducts objective security assessments to evaluate and manage cyber risks.	Security assessment determinations are not constrained by operational goals.		

A.3.1.3	Identification of CDAs			
A.3.1.3	As required by 10 CFR 73.54(b)(1), the licensee must identify and document each CDA that has a direct, supporting, or indirect association with the proper functioning of CS.	<ul> <li>The submitted CSP provides a description of methods that:</li> <li>identify and document systems, equipment, communication systems, and networks that are associated with the SSEP functions described in 10 CFR 73.54(a)(1), as well as the support systems associated with these SSEP functions. Systems, equipment, and network systems associated with SSEP functions are referred to as CS. The CST identifies CS by conducting an initial consequence analysis of systems, equipment, communication systems, and networks to determine those which, if compromised, exploited, or failed, could impact the SSEP functions of the nuclear facility, without taking into account existing mitigating measures.</li> <li>perform a dependency and pathway analysis of any system or equipment associated with SSEP functions to determine whether they are CS.</li> <li>identify and document CDA that have a direct, supporting, or indirect role in the proper functioning of CS.</li> </ul>		

As required by	The submitted CSP discusses the
10 CFR 73.54(b)(1), the	means to document the following:
licensee must examine each CS and document the results.	description of CDA
	identification of each CDA     within each CS
	description of CDA functional(s)
	identification of the consequences to the CS and SSEP functions, if a compromise were to occur
	identification of the digital devices having direct or indirect roles in CS function
	description of security     functional requirements or     specifications that includes:
	<ul> <li>security requirements for vendor or developers to maintain system integrity</li> <li>secure configuration, installation, and operation of the CDA</li> <li>effective use and maintenance of security features or functions</li> <li>known vulnerabilities regarding configuration and use of administrative functions</li> <li>effective use of useraccessible security features or functions</li> <li>methods for user interaction with CDA</li> <li>user responsibilities in maintaining the security of the CDA</li> </ul>

A.3.1.4	Reviews and Validation Testing			
	As required by 10 CFR 73.54(e)(1), the CSP must describe implementation of the program and address site-specific conditions.	The submitted CSP identifies states that CST conducted a review and documents the following performed validation activities and for each CDA:		
		direct/indirect connection pathways		
		infrastructure interdependencies		
		application of defensive strategies, including defensive models, security controls, and other defensive measures		

In order to comply with 10 CFR 73.54(e)(1), the CST should validate	The walkdown includes the following:
the above activities with a walkdown.	performing physical inspection of the connections and configuration of each CDA
	for each CDA, tracing all communication connections into and out of each termination point along the pathway
	examining the physical security of the CDA including the communication pathways
	examining the configuration and assessing the effectiveness of existing security controls along the communication pathways
	examining interdependencies for each CDA and trust relationships and between CDAs
	examining interdependencies with infrastructure support systems emphasizing compromises of electrical power, environmental controls, and fire equipment
	examining systems, communication systems, and networks that are potential pathways for attacks
	resolving discrepancies found in the review

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documenting the walkdown

		In order to comply with 10 CFR 73.54(e)(1), the CST should perform electronic validations as appropriate.	An electronic validation is performed when a walkdown inspection is impractical and consists of tracing a communication pathway from start to finish. Use of electronic equipment may prove a better method than a physical walkdown.		
	A.3.1.5	D3DEFENSE-IN- DEPTH Protective Strategies			
I		As required by 10 CFR 73.54(c)(2), licensees must apply and maintain defense- in-depth protective strategies to ensure the capability to detect, respond to, and recover from cyber attacks.	The submitted CSP provides for the implementation of defensive strategies that ensure the capability to detect, respond to, and recover from a cyber attack. The defensive strategies consist of the following:  • security controls implemented in accordance with Section 3.1.6 of the CSP and the defense model outlined in Section-Regulatory Position C.3.2 of RG 5.71  • defense-in-depth measures described in Section 6 of Appendix C to RG 5.71  • detailed defensive architecture described in Section 7 of Appendix C to RG 5.71  • maintenance of a cyber security program in accordance with Section 4 of Appendix A to RG 5.71  The defense model establishes the logical and physical boundaries between CDAs with similar risks and CDAs with lower security risks.		

A.3.1.6	Application of Security Controls			
	As required by 10 CFR 73.54(c)(1) and 10 CFR 73.54(c)(2), the licensee must design its cyber security program with defense-in-depth, including implementation of security controls to protect CDAs from cyber attacks.	The licensee establishes defense- in-depth strategies by implementing and documenting the following:  defensive model (Section C.3.2 of RG 5.71)  physical security program and physical barriers  operational and management controls described in Appendix C to RG 5.71  technical controls described in Appendix B to RG 5.71		

Technical Security	
Controls	
	The submitted CSP discusses using the information collected from Section 3.1.4 of the CSP to conduct one or more of the following:
	Implement all security controls specified in Appendix B to RG 5.71.
	2. If a security control cannot be applied, implement an alternative control listed in Appendix B to RG 5.71 by doing one of the following:    Application
	A. Document the basis for the countermeasure.
	B. Perform and document an attack vector/tree analysis of the CDA to confirm that the countermeasure provides the same or greater protection as the corresponding control.
	3. Do not implement a control enumerated in Appendix B to RG 5.71 and—
	A. Perform an attack vector and attack tree analyses of the specific security controls for the CDA that will not be implemented.
	B. Document that the attack vector does not exist and demonstrate that the control is not necessary.

10 CFR 73	3.58(b), 3.58(c), and 3.58(d), the nust address in Specifically controls.  • should control advers functio  • should mitigat control	tted CSP notes that, elementing security of a CDA, the potential for espect must be assessed. Ey, the licensee—  not implement a security if there is a known e impact to SSEP ens  use alternate controls to e the lack of the security in accordance with of 3.1.6 of the CSP	
10 CFR 73 Licensees perform ef	3.54(c)(2) should fectiveness rulnerability nts, and provisions adequately attacks up DBT and the have been should req the followin  Perforr analysi Section  Perforr assess	m an effectiveness is, as described in C.4.1.2 of RG 5.71. m a vulnerability sment or scans, as ped in Section C.4.1.3 of	

<b>A</b> .:	3.2	Incorporating the Cyber Security Program into the Physical Protection Program			
-		-	The CSP discusses the following efforts necessary to integrate the management of physical and cyber security:  • establishment of a security organization, independent from operations, to incorporate both cyber and physical security  • documentation of physical and cyber security interdependencies  • development of policies and procedures joining management, physical, and cyber security controls  • incorporation of policies and procedures to secure the CDAs from attacks up to and including the DBT  • coordination of the acquisition of physical or cyber security services, training, devices, and equipment  • coordination of personnel training  • integration and coordination of incident response personnel  • training of senior management  • performance of periodic exercises of simulated physical		
			and cyber attacks		

A.3.3.	Policies and		
	Implementing Process As required by 10 CFR 73.54(f), the licensee must develop and maintain policies and procedures to implement the CSP.	<ul> <li>The CSP states the following:</li> <li>The licensee must develop and implement policies and procedures to meet the security control objectives provided in Appendices B and C to RG 5.71.</li> <li>The licensee must document, review, approve, issue, use, and revise policies and implementation procedures as described in Section 4 of the CSP.</li> <li>The licensee must ensure that personnel responsible for implementing and overseeing the program report to an executive who is responsible for nuclear plant operation.</li> <li>The licensee's procedures must establish specific responsibilities for positions described in Section C.10.10 of RG 5.71.</li> </ul>	
A.4	M	aintaining the Cyber Security Progr	ram
	As required by 10 CFR 73.54(b)(2), the licensee must implement the elements in this section to adequately protect the site from cyber attacks.	<ul> <li>The CSP states the following:</li> <li>The licensee will employ a life-cycle approach consistent with the controls described in Appendix C of RG 5.71.</li> <li>The licensee needs to maintain security controls for CDAs to achieve the overall cyber security program objectives.</li> <li>For new or existing CDAs undergoing modifications, the licensee should follow the process described in Section 4.2 of the CSP.</li> </ul>	

A.4.1	Continuous Monitoring			
	and Assessment  In order to comply with 10 CFR 73.54(b)(2), 10 CFR 73.54(e)(2), and 10 CFR 73.54(e)(2), the licensee should monitor the controls described in Appendix C to RG 5.71. Automated support tools are used for near real-time cyber management for CDAs.	The CSP describes a continuous monitoring program, including the following:  • ongoing assessments to verify that security controls remain in place throughout the life cycle  • verification that rogue assets have not been connected to the infrastructure  • periodic assessment to verify effectiveness and need for the security controls described in Appendices B and C to RG 5.71  • periodic security program review to evaluate and improve the effectiveness of the program  • support for configuration management		
A.4.1.1	Periodic Assessment of	possible updates to the CSP		
	Security Controls  As required by 10 CFR 73.54(b)(2) and 10 CFR 73.54(d)(2), the licensee must maintain the cyber security program and evaluate and manage cyber risks.	<ul> <li>The licensee must perform periodic assessments to verify that the security controls implemented for each CDA remain robust, resilient, and effective.</li> <li>The licenseeCST must verify the status of the controls annually or in accordance with the guidance described in Appendices B and C to RG 5.71, whichever is more frequent.</li> </ul>		

A.4.1.2	Effectiveness Analysis			
	,	The CSP states the following:		
		The CST monitors and measures the cyber security program and security controls to ensure that the controls were implemented correctly and are operating as intended, thus assuring protection against cyber attacks.		
		Licensee reviews of the security program and controls include periodic testing of the security controls and re-evaluation of adversary capabilities.		
		Licensee reviews of the security program and controls include audits of the following:		
		<ul> <li>physical security program and implementing procedures</li> <li>safety/security interface activities</li> <li>testing, maintenance, and calibration programs</li> <li>operating experience program</li> </ul>		
		The licensee considers feedback from the NRC and law enforcement agencies.		
		The CST verifies the effectiveness of security controls annually or in accordance with Appendices B and C to RG 5.71.		
		The CST reviews records of maintenance and repairs to ensure that security functions are maintained in accordance with recommendations provided by the manufacturer.		

The insights gained from these analyses are used to:

improve performance and effectiveness of the cyber security program,

manage and evaluate risk,

improve the effectiveness of implemented security controls described in Appendices B and C to RG 5.71,

ascertain whether new security controls are required to protect CDAs from cyber attack,

verify that existing security controls are functioning properly and are effective at protecting CDAs from cyber attack, and

facilitate corrective action of any gaps discovered in the

security program.

A.4.1.3	Vulnerability		
I	Assessments & Scans		Formatted: Highlight
	As required by 10 CFR 73.54(b)(2) and 10 CFR 73.54(d)(2), the licensee must maintain the cyber security program and evaluate and manage cyber risks.	The CSP states the following:  • The licensee will conduct vulnerability scans or assessments, identify deficiencies, and resolve the deficiencies. The frequency of the scans and assessments is at least once each quarter. Refer to RG 5.71, Appendices B and C, for frequency for specific controls.	
		The CST will perform vulnerability scans or assessments when new vulnerabilities that could potentially affect the effectiveness of the controls are identified.	
		The CST will employ up-to-date vulnerability scanning tools and techniques.	
		The CST will evaluate scan and assessment reports and address vulnerabilities that could adversely impact SSEP functions.	
		The CST will share scanning and assessment information with appropriate personnel to ensure that vulnerabilities that may affect similar or interconnected CDAs or impact the effectiveness of the CDA functions or the SSEP functions or both are understood, evaluated, and mitigated.	

The CST will ensure that the assessment and scanning does not adversely impact SSEP functions. If an impact is detected, the CDA will be removed from service or replicated before assessment and scanning is conducted.		
If the CSTLicensee/Applicant cannot conduct vulnerability assessments or scanning on a production CDA because of the potential for an adverse impact on SSEP functions, alternate controls (e.g., providing a replicated system or CDA to conduct scanning) will be employed.		

Α	.4.2	Change Control			
		As required by 10 CFR 73.54(d)(3), the licensee must ensure that modifications are	The CSP states the following:		
I		evaluated to ensure that cyber security objectives are met.	The CSTLicensee/Applicant will systematically plan, approve, test, and document changes to the environment of a CDA.		
			Changes to existing CDAs or addition of a new CDA must be made in a manner that ensures that the SSEP functions are protected from a cyber attack.		
			During the operation and maintenance life-cycle phases, the program establishes that changes made to CDAs, design control and configuration management procedures or other procedural processes ensure that the existing security controls are effective and that any pathway that can be exploited to compromise a CDA is protected from cyber attacks.		
			During the retirement phase, the design control and configuration management procedures or other procedural processes address safety, reliability, and security engineering activities.		

A.4.2.1	Configuration Management			
	In order to comply with 10 CFR 73.54(d)(3), 10 CFR 73.54(f), and 10 CFR 73.54(g), licensees should ensure that modifications to critical digital assets, are evaluated before implementation to ensure that the cyber security performance are maintained.	<ul> <li>The CSP states the following:</li> <li>The licensee will implement and document the configuration management controls described in Section C.11 of RG 5.71.</li> <li>The licensee will implement a configuration and change management system as described in Section C.11 of RG 5.71.</li> <li>Before modifications are implemented, the licensee must evaluate them using the criteria in Section 4.2 of the CSP to ensure that the performance objectives identified in 10 CFR 73.54(a)(1) are maintained.</li> </ul>		

Γ	A.4.2.2	Security Impact			
	71.7.2.2	Analysis of Changes			
		and Environment			
İ		In order to comply with	The CSP states the following:		
		10 CFR 73.54(d)(3), the	· · · · · · · · · · · · · · · · · · ·		
		security impact analysis	The CST will perform a security		
		should assist in	impact analysis in accordance		
		managing potential	with CSP Section 4.1.2 before		
		vulnerabilities,	implementing a design or		
		weaknesses, and risks	configuration change or when		
		introduced by changes	changes to the environment		
		in the system, network,	occur.		
		environment, or	TI 00T III I		
		emerging threats.	The CST will evaluate		
I			documents, document, and incorporate		
			into the security impact		
			analysis the safety and		
			security interdependencies		
			of other CDAs or systems.		
			The CST will also update and		
			document the following:		
			<ul> <li>location of CDA and connected assets</li> </ul>		
ı			<ul><li>connected assets</li><li>connectivity pathways</li></ul>		
			connectivity patriways		
•			<ul><li>infrastructure</li></ul>		
			interdependencies		
			<ul> <li>application of defensive</li> </ul>		
			strategies including:		
			<ul> <li>defensive models</li> </ul>		
			<ul> <li>security controls</li> <li>other defensive strategy</li> </ul>		
			<ul> <li>other defensive strategy measures</li> </ul>		
			<ul><li>plant-wide physical and</li></ul>		
			cyber security policies and		
			procedures, including		
			attack mitigation and		
			incident response and		
			recovery		
			The Bearing will be enforced		
			The licensee will perform     impact analyses as part of the		
			impact analyses as part of the change approval process and		
			address identified gaps to		
			protect CDAs from attack as		
			described in Section 4.2.6 of		
			this plan.		

		<ul> <li>The licensee will manage the cyber security of SSEP functions and CDAs through ongoing evaluation, as described in Appendices B and C to RG 5.71, during all phases of the life cycle.</li> <li>The licensee will establish procedures for screening, evaluating, mitigating, and dispositioning threat and vulnerability notifications received from credible sources. This includes implementation of security controls to mitigate</li> </ul>		
		new issues.		
A.4.2.3	Modification of CDAs			
	As required by 10 CFR 73.54(d)(3), the licensee must ensure that modifications to CDAs are evaluated before implementation.	The licensee must disseminate, review, and update the following when a CDA modification is conducted:  documented security assessment and authorization policy to reflect all modifications  documented procedure to facilitate the implementation of the security reassessment and authorization policy and associated controls		

	A.4.2.4	Updating Cyber Security			
1	A.4.2.4	Updating Cyber Security Practices In order to comply with 10 CFR 73.54(e), the CST should update the cyber security practices.	The CST must review, update, and modify information on cyber security policies, procedures, practices, existing cyber security controls, network architecture, security devices, and any other information associated with the state of the security program or security controls provided in Appendices B and C to RG 5.71 when changes occur to a CDA or the environment. This information includes the following:  • detailed network architectures and diagrams  • configuration information on security devices or CDAs  • new plant or corporate-wide cyber security defensive strategies or security controls being developed and policies, procedures, practices, and technologies related to their deployment  • the site's physical and operational security program  • cyber security requirements for vendors and contractors  • identified potential pathways for attacks  • recent cyber security studies or audit results		
			identified infrastructure support systems whose failure or manipulation could impact the proper functioning of CS		

	A.4.2.5	Review and Validation Testing of Modification or Addition of a CDA			
		In order to comply with 10 CFR 73.54(d)(3), the CST should document the results of reviews and validation tests.	The CST documents the results of reviews and validation tests of each CDA modification and addition using the process described in Section-Regulatory Position C.3.1.4 of RG- 5.71.		
Ē	A.4.2.6	Application of Security Controls Associated with a Modification or Addition			
		As required by 10 CFR 73.54(c)(1) and 10 CFR 73.54(d)(3), the licensee must apply security controls associated with modifications.	The licensee undertakes the following when new CDAs are introduced:  • deploys the CDA ininto the appropriate level of the defensive model described in Section—C. 3.21.5 of RG 5.71this plan,  • performs a security impact		
			<ul> <li>analysis, as described in Section C.4.2.2 of RG 5.71</li> <li>verifies thatapplies the technical controls identified in Appendix- B to RG- 5.71 are implemented asin a manner consistent with the process described in Sections-Section 3.1.62 of RG 5.71, and 4.1.2 of the CSP</li> </ul>		
Ī			confirms that the operational and management controls listeddescribed in Appendix- C toof RG- 5.4771 are applied and effective for the CDA.		

Review	rity Program	
The cyber s	follows:  to the program's effectiveness at least every 24 months  eriodic applicable ements, in with the ts of 555(m) and  follows:  the program's effectiveness at least every 24 months  within 12 months of initial implementation of program  within 12 months of a change to personnel, procedures,	

#### Table 2 - Regulatory Guide 5.71, Appendix B, Technical Security Controls

(This table contains only those technical controls with time associations. To aid the reviewer, the description of these controls has been expanded beyond that which is provided in RG 5.71.)

# B.1.1 Access Control Policy and Procedure

- Develop, disseminate, and annually review and update a formal, documented CDA and CS access control policy which addresses the purpose, scope, roles, responsibilities, management commitments, and internal coordination of such policy.
- Audit CDAs annually or immediately upon changes in personnel responsibilities or major changes in system configurations or functionality.

# B.1.2 Account Management

- Review CDA/CS accounts in a manner consistent with the access control list provided in the design control package, access control program, and cyber security procedures. Initiate required actions on CDA/CS accounts no less frequently than once every 30 days.
- Review and document CDA/CS accounts at a maximum interval consistent with the most recent version of Nuclear Energy Institute (NEI) 03-12, "Security Plan, Training and Qualification Plan, and Safeguards Contingency Plan," endorsed by the NRC for CDAs/CS in vital areas and CDAs/CS that provide security functions protecting vital areas.
- Employ automated mechanisms that support CDA/CS account management functions and enable CDAs/CS to:
  - terminate temporary, guest, and emergency accounts no less frequently than once every 30 days
  - disable inactive accounts no less frequently than once every 30 days
  - document and immediately notify system administrators of all account creation, deletion, and modification activities to ensure that administrators are aware of any account modifications and can investigate potential cyber attacks

## B.1.7 Unsuccessful Login Attempts

- Implement security controls to limit the number of invalid access attempts by a
  user. Document this requirement in the access control policy. The number of
  failed login attempts in a specified time period may vary by CDA/CS. For example,
  the licensee may implement a security control that will automatically lock out the
  account after more than three invalid login attempts are made within a 1-hour time
  period. The licensee's system enforces the lock out mode automatically.
- The access control policy includes a requirement that only authorized individuals, who are not the user, can unlock accounts once the maximum number of unsuccessful login attempts has been exceeded. Alternatively, other verification techniques or mechanisms that incorporate identity challenges may be used.

# B.1.10 Session Lock

Configure CDAs/CS to do the following:

- Initiate a session lock after within 30 minutes of inactivity.
- Implement alternative controls and document the justification for alternative controls or countermeasures for those instances in which a CDA/CS cannot support session locks.
- Monitor and record physical access to the CDA/CS to detect and respond to intrusions immediately.

# B.1.17 Wireless Access Restrictions

Conduct scans no less frequently than once every week for unauthorized wireless access points, in accordance with this document, and disable access points if unauthorized access points are discovered.

# B.1.18 Insecure and Rogue Connections

Verify that, during deployment of CDAs/CS, when changes or modifications have been made to CDAs/CS, and no less frequently than once every month, CDAs/CS are free of insecure (i.e., rogue) connections, such as vendor connections and modems.

# B.2.1 Audit and Accountability Policy and Procedures

Develop, disseminate, and annually review and update the following while using an independent party for the audit reviews:

- a formal, documented audit and accountability policy that addresses the purpose, scope, roles, responsibilities, management commitments, and internal coordination of the policy
- a formal, documented procedure that facilitates the implementation of the audit and accountability policy and associated audit and accountability security controls

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#### B.2.2 Auditable Events

Review and update the list of defined auditable events no less frequently than once a

# B.2.5 Response to Audit Processing Failures

CDAs provide a warning when the allocated audit record storage volume reaches a defined percentage of maximum audit record storage capacity, which is based on the function of how quickly storage capacity is consumed and the organization's resources and response times (e.g., 60 to 70 percent of storage capacity).

### B.2.6 Audit Review, Analysis, and Reporting

Review and analyze the CDA/CS audit records no less frequently than once every 30 days for indications of inappropriate or unusual activity and report findings to designated official.

# B.3.1 Critical Digital Asset/Critical System and Communications Protection Policy and Procedures

Develop, disseminate, and annually review and update the following:

- a formal, documented CDA/CS system and communications protection policy that addresses the purpose, scope, roles, responsibilities, management commitments, and internal coordination of the system
- a formal, documented procedure that facilitates the implementation of the CDA/CS system and communications protection policy and associated CDA/CS system and communications protection security controls

# B.4.1 Identification and Authentication Policies and Procedures

The identification and authentication policy and procedures provide guidance on managing both user identifiers and CDA/CS authenticators. These items include the following:

- disable user identifier after a maximum of 30 days of inactivity
- annual changing or refreshing of authenticators

# **B.4.3 Password Requirements**

Change passwords periodically (e.g., every 30 days for workstations; every 3 months for CDAs in a vital area).

# B.4.6 Identifier Management

Manage and document user identifiers by disabling the user identifier after a maximum of 30 days of inactivity.

# B.4.7 Authenticator Management

Manage CDA/CS authenticators by changing/refreshing authenticators annually.

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# Table 3 - Regulatory Guide 5.71, Appendix C, Management and Operations Security Controls

(This table contains only those management and operations controls with time associations. To aid the reviewer, the description of these controls has been expanded beyond that which is provided in RG 5.71.)

#### C.1.1 Media Protection Policy and Procedures

The licensee develops, disseminates, and annually reviews and updates the following:

- a formal, documented media protection policy that addresses purpose, scope, roles, responsibilities, management commitment, coordination among site entities, and compliance for each information category, as defined by the site policies, and ensures that any media which can provide information to assist an adversary is marked at a minimum to identify the sensitive nature of the media
- a formal, documented procedure to facilitate the implementation of the media
  protection policy and all associated media protection controls, including the
  methodology that defines the purpose, scope, roles, responsibilities, and
  management commitments in the areas of media receipt, storage, handling,
  sanitization, removal, reuse, and disposal necessary to provide high assurance
  that the risk of unauthorized disclosure of information that could be used in a
  cyber attack to adversely impact the SSEP functions of the nuclear facility is
  prevented

#### C.1.6 Media Sanitation and Disposal

The licensee tracks, documents, and verifies media sanitization and disposal actions and performs quarterly tests on sanitized data to ensure that equipment and procedures are functioning properly.

# C.3.1 System and Information Integrity Policy and Procedures

The licensee develops, disseminates, and annually reviews and updates the following:

- a formal documented system and information integrity policy that addresses the purpose, scope, roles, responsibilities, management commitment, coordination among licensee entities, and compliance
- formal documented procedures to facilitate the implementation of CDAs and an information integrity policy and associated system and information integrity controls

# C.3.4 Monitoring Tools and Techniques

The licensee tests cyber intrusion detection and prevention systems, consistent with the timeframe defined in NEI 03-12, Section 20.1, for intrusion detection systems, and before being placed back in service after each repair or inoperative state.

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# C.3.5 Security Alters and Advisories

The licensee is responsible for the following:

- receiving timely security alerts, bulletins, advisories, and directives from
  credible external organizations, as designated by the NRC and the licensee
  on an ongoing basis, such as third-party security alert notification services
  and vendor security alert lists, and maintaining a copy of these documents
- independently evaluating and determining the need, severity, methods, and timeframes for implementing security directives consistent with the security controls for the CDA (Section 3.1 of Appendix A to RG 5.71).
- within established timeframes set by the licensee or as directed by the NRC:

#### C.3.7 Software and Information Integrity

The licensee reassesses and documents the integrity, operation, and functions of software and information by performing regular integrity, operation, and functional scans consistent with manufacturer or vendor recommendations, either quarterly, or as defined in NEI 03-12, or as required by NRC regulation, whichever is more frequent.

#### C.7 Defense in Depth

The licensee implements and documents security boundary control devices between higher security levels and lower security levels that include, except in the case of data diodes, a rule set that at a minimum is updated quarterly.

# C.8.3 Incident Response Testing and Drills

The licensee is responsible for testing and conducting drills of the incident response capability for CDAs at least annually.

# C.8.4 Incident Handling

In the event of an unplanned incident that reduces the number of required cyber security personnel, the licensee must compensate by using other trained and qualified onsite cyber security personnel or calling in off-duty personnel within 2 hours from the time of discovery.

# C.9.1 Contingency Planning Policy and Procedure

The licensee develops, disseminates, and annually reviews and updates the following:

- a formal, documented contingency planning policy that addresses purpose, scope, roles, responsibilities, management commitment, coordination among licensee entities, and compliance
- formal, documented procedures to facilitate the implementation of the contingency planning policy and associated contingency planning controls

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#### C.9.3 Contingency Plan Testing

The licensee is responsible for conducting tests or exercises or both and documenting the contingency plan at least annually to verify its effectiveness and the organization's readiness to execute this plan.

#### C.9.4 Contingency Plan Training

The licensee is responsible for training personnel in their contingency roles and responsibilities with respect to the CDAs and providing refresher training at least annually or consistent with the licensee's overall contingency program, whichever period is shorter.

# C.9.6 Critical Digital Asset Backups

The licensee is responsible for the following:

- testing and documenting backup information monthly to verify media reliability and information integrity
- establishing and documenting the timeframe in which data or the CDA must be restored and the frequency at which critical data and configurations are changing

# C.11.2 Configuration Management Policy and Procedures

The licensee develops, disseminates, and annually reviews and updates a formal, documented configuration management policy and implementing procedures that address the purpose, scope, roles, responsibilities, management commitment, coordination among licensee entities, associated configuration management controls, and compliance.

# C.11.3 Baseline Configuration

The licensee documents the up-to-date baseline configurations and audits the configurations quarterly. Baseline configurations include but are not limited to a current list of all components (e.g., hardware, software), configuration of peripherals, version releases of current software, and switch settings of machine components.

The licensee defines the minimum physical and logical access for the modifications. Additionally, the licensee employs electronic means to monitor CDA access to ensure that only authorized systems and services are used. The licensee also documents the justification for the use of alternate (compensating) security controls for instances in which monitoring cannot be done electronically, including the following:

- · physically restricting access
- monitoring and recording physical access to enable immediate detection and response to intrusions
- employing auditing and validation measures (e.g., security officer rounds, periodic monitoring of tamper seals)

The licensee reviews log records no less frequently than once a quarter in compliance with the physical security plan.

## C.11.6 Access Restrictions for Change

The licensee defines, documents, approves, and enforces physical and logical access restrictions associated with changes to CDAs and generates, retains, and audits the record quarterly and when there are indications that unauthorized changes may have occurred.

# C.11.8 Least Functionality

The licensee reviews CDAs monthly to identify and eliminate unnecessary functions, ports, protocols, and services.

#### C.12.1 System and Services Acquisition Policy and Procedures

The licensee develops, disseminates, and annually reviews and updates a formal, documented system and services acquisition policy that addresses purpose, scope, roles, responsibilities, management commitment, coordination among licensee entities, associated system and service acquisition controls, and compliance.

The licensee develops, disseminates, and annually reviews and updates formal, documented procedures to facilitate the implementation of the system and services acquisition policy and associated system and services acquisition controls.

# C.12.6 Licensee/Applicant Testing

The licensee requires annual audits of CDAs to verify the following:

- The security controls present during testing remain in place and are functioning correctly in the production system.
- CDAs are free from known vulnerabilities and security compromises and continue to provide information on the nature and extent of compromises, should they occur.
- The change management program is functioning effectively and is recording configuration changes appropriately.

## C.13.1 Threat and Vulnerability Management

The licensee does the following:

- performs assessments and scans for vulnerabilities in CDAs at least once each quarter and at random intervals in accordance with Section 4.1.3 of Appendix A to RG 5.71 and when new potential CDA vulnerabilities are reported or identified
- analyzes vulnerability scan reports and remediates vulnerabilities immediately to provide a high degree of assurance that CDAs/CS are protected from cyber attacks up to and including the DBT
- employs vulnerability scanning tools that include the capability to update the
  list of cyber vulnerabilities scanned and updates the list of CDA vulnerabilities
  scanned monthly and when new vulnerabilities are identified and reported
- employs automated mechanisms to compare the results of vulnerability scans over time to determine trends in CDA vulnerabilities and mitigation/flaw remediation activities
- ensures that SSEP functions are not adversely impacted by scanning

The following additional guidance for the reviewer is provided:

- For reviews of CSPs for a new reactor, a table in FSAR Chapter 13 provides the implementation schedule, along with the implementation schedules for all other operational programs. The NRC will inspect the implementation of this program in accordance with NRC Inspection Manual Chapter IMC-2504, "Construction Inspection Program—Non-ITAAC Inspections." The reviewer will ensure that the program and associated implementation milestones are included within the license condition on operational program implementation.
- For reviews of CSPs for an operating reactor, the implementation schedule must consider refueling outages.
- For reviews of CSPs the phrase "cyber attack" must be defined in the CSP as "Any
  event in which there is a reason to believe that an adversary has committed or caused,
  or attempted to commit or cause, or has made a credible threat to commit or cause
  malicious exploitation of a CDA." See ML101550052.

# IV. EVALUATION FINDINGS

The reviewer should verify that the applicant/licensee has provided sufficient information and that the review and calculations (if applicable) support conclusions of the following type to be included

in the NRC staff's safety evaluation report. The reviewer should also state the bases for those conclusions.

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The evaluation findings for a CSP review should be substantially equivalent to the following statement: Formatted: Highlight A CSP has been submitted to demonstrate that the cyber security program will provide high assurance that digital computer and communication systems and networks are adequately protected against cyber attacks, up to and including the DBT described in 10 CFR 73.1. The CSP has been withheld from public disclosure in accordance with the provisions of 10 CFR 2.390(d)(1), Formatted: Highlight The applicant/licensee described the cyber security program based on the requirements of 10 CFR 73.54, including the audit of the effectiveness of the cyber security program at least every 24 months, as required by 10 CFR 73.55(m); safety and security interface, as required by 10 CFR 73.58; and reporting requirements, as required by Appendix G to 10 CFR Part 73. The implementation milestones for this program are included within the license condition on program implementation. Formatted: Highlight The CSP has been reviewed for format and content utilizing the NRC CSP template, found to contain all features considered essential of such a program by the NRC staff, and is acceptable. In particular, it has been found to comply with the Commission's regulations, including 10 CFR 73.54, 10 CFR 73.55(a)(1), 10 CFR 73.55(b)(8), 10 CFR 73.55(m), 10 CFR 73.58, and Appendix G to 10 CFR Part 73, and it conforms to the applicable regulatory positions set forth in RG 5.71. Formatted: Highlight For COL reviews, the following license condition for operational programs should be added to the license: The applicant/licensee described the CSP and its implementation in conformance with 10 CFR 73.54, 10 CFR 73.55(a)(1), 10 CFR 73.55(b)(8), 10 CFR 73.55(m), 10 CFR 73.58, and Appendix G to 10 CFR Part 73. The license condition on operational program implementation includes the program and its implementation milestones. Formatted: Highlight **IMPLEMENTATION** Field Code Changed Formatted: Highlight The following provides guidance to applicants and licensees regarding the NRC staff's plans for using this SRP section. The NRC staff will use this SRP section when reviewing the CSP submittals of license amendment applications and license applications submitted by applicantsapplicant/licensees in accordance with 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," and 10 CFR Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." Except when the applicant/licensee proposes an acceptable alternative method for complying with specified portions of the Commission's regulations, the NRC staff will use the method described herein to evaluate conformance with Commission regulations. Formatted: Highlight Revision 0 - May 2010 13.6.6-45

	The provisions of this SRP section apply immediately to reviews of applications to accommodate license amendment and COL application schedules.	
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1	VI. <u>REFERENCES</u>	Field Code Changed
	<ol> <li>10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," Chapter 1, "Energy."</li> </ol>	
:	<ol> <li>10 CFR Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants," Chapter I, "Energy."</li> </ol>	( <b>-</b>
<u> </u>	3. 10 CFR Part 73, "Physical Protection of Plants and Materials," Chapter I, "Energy."	Formatted: Highlight
۱ ،	<ol> <li>NRC, "Power Reactor Security Requirements Final Rule" Federal Register, Vol. 74, No. 58, March 27, 2009, pp. 13926–13993.</li> </ol>	Formatted: Highlight
۱ .	<ol> <li>NEI, "Security Plan, Training and Qualification Plan, and Safeguards Contingency Plan," NEI 03-12, Revision 6.</li> </ol>	Formatted: Highlight
(	3. NRC, "Cyber Security Programs for Nuclear Facilities," RG 5.71.	
	7. NRC, "Construction Inspection Program—Non-ITAAC Inspections," NRC IMC-2504.	
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	PAPERWORK REDUCTION ACT STATEMENT	Field Code Changed
•	The information collections contained in the Standard Review Plan are covered by the requirements of 10 CFR Part 50 and 10 CFR Part 50. The CFR Part 50 and 10 CFR Part 52, and were approved by the Office of Management and Budget (OMB), approval numbers 3150-0011 and 3150-0151.	
	PUBLIC PROTECTION NOTIFICATION	
	The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid OMB control number.	
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	13.6.6-47 Revision 0 - May 2010*	,

# SRP Section 13.6.6 "Cyber Security Plan" Description of Changes

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Section 13.6.6 is a new SRP section not previously included in NUREG-0800. It was developed to provide guidance for the review of CSPs.