

BPA Policy 434-1

Cyber Security Program

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1. Purpose & Background

This policy sets forth requirements and responsibilities for the Bonneville Power Administration Cyber Security Program (CSP) that protects both Information Technology (IT) and grid Operations Technology (OT) cyber systems. The implementation of this policy shall focus on reduction of risk while remaining consistent with obligations under relevant external regulations, chiefly Department of Energy orders and directives, and the *Federal Information Security Management Act* (FISMA) and also including provisions to allow implementation of requirements of the North American Electric Reliability Corporation Critical Infrastructure Protection (NERC CIP) standards pursuant to the Energy Policy Act of 2005 (Pub. L. 109-58).

Elements of this policy may provide evidence of compliance with NERC CIP, however this policy is not intended solely to be a NERC CIP policy.

2. Policy Owner

The BPA Chief Information Officer (CIO) is the owner of this policy.

3. Applicability

This policy is applicable to all personnel who use, access, modify, manage, maintain or operate IT or OT equipment, including Transmission-owned or Transmission-managed cyber systems.

4. Terms & Definitions

Refer to *National Institute of Standards and Technology (NIST) Interagency Report (IR) 7298 Revision 1, Glossary of Key Information Security Terms* for additional definitions related to cyber security, but not unique to this policy. The NIST IR 7298 Rev 1 includes most of the current terms & definitions used in NIST information security publications and those in the *CNSS Instruction No. 4009, National Information Assurance (IA) Glossary*.

NIST Special Publications and Federal Information Processing Standards contain the definitions for key terms used in the implementation of the IT risk management framework and the *Federal Information Security Management Act*.

Refer to *NERC Glossary of Terms Used in NERC Reliability Standards* for additional definitions related to critical infrastructure protection, but not unique to this policy. The NERC Glossary of Terms Used in NERC Reliability Standards includes most of the current terms & definitions used in NERC CIP publications.

- A. **Annual:** Occurring within a calendar year, (January 1 through December 31).
- B. **Authorizing Official (AO):** An AO is a federal official with authority to formally assume responsibility for operating a cyber system at an acceptable level of risk to BPA operations (including mission, functions, or reputation), BPA assets, or individuals.
- C. **Chief Information Officer (CIO):** The official with overall responsibility for IT procurement, maintenance and operations including the selection and designation of the senior agency information security officer. The CIO is responsible for BPA Technical

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Architecture for the life-cycle management of information, information resources and related IT investments to maximize investments in information technology and ensure information technology is aligned with strategic goals. The CIO is responsible for the BPA Information Technology Architecture.

- D. **Chief Information Security Officer (CISO) [BPA Senior Agency Information Security Officer (SAISO)]:** The official who ensures the development and maintenance of information security policies, procedures, and control techniques to address all applicable statutory requirements. Pursuant to FISMA, (§ 3554 (a)(3)(A)), the BPA CISO is the senior information security official responsible for carrying out CIO responsibilities under the statute.
- E. **Cyber System:** Operational Technology (OT) and equipment or collections of IT equipment; any technology system (or collections thereof) capable of sending, receiving, or storing electronic data. Synonyms: Grid IT, IT, information system, cyber asset, IT system. Examples: computing servers, user workstations, remote terminal units, phasor measurement units, network routers and switches.
- F. **Information Owner (IO) [Information Steward]:** An official with operational authority for specified BPA information (including responsibility for establishing controls for its generation, collection, processing, dissemination, storage and disposal); generally a business unit manager or designate.
- G. **System Owner (SO):** An official responsible for the overall procurement, development, integration, modification, or operation and maintenance of one or more cyber systems, including identifying and documenting in the System Security Plan (SSP): the operation of the information system; unique threats to the information system; and any special protection requirements identified by the system owner, for each information system for which he or she is responsible.
- H. **System Security Officer (SSO):** The official responsible to the SO, IO and AO for maintaining an adequate operational security for one or more cyber systems.
- I. **System Security Manager (SSM) -** The SSM typically has the detailed technical knowledge and expertise required to manage the security aspects of the cyber system and is generally assigned responsibility for the day-to-day security operations.
- J. **Information Technology [40 USC § 11101(6)(A)]:** With respect to an executive agency means any equipment or interconnected system or subsystem of equipment, used in the automatic acquisition, storage, analysis, evaluation, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information by the executive agency, if the equipment is used by the executive agency directly or is used by a contractor under a contract with the executive agency that requires the use —
 - a. of that equipment; or
 - b. of that equipment to a significant extent in the performance of a service or the furnishing of a product;

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IT includes computers, ancillary equipment (including imaging peripherals, input, output, and storage devices necessary for security and surveillance), peripheral equipment designed to be controlled by the central processing unit of a computer, software, firmware and similar procedures, services (including support services), and related resources.

All IP-addressable equipment or devices are included in this category.

- K. **Privileged User:** Any user who has been granted system administrator or network administrator rights, e.g. super-user access or root-level access, or has authority to alter the security controls or overall security configuration of a cyber system.
- L. **System Life Cycle (SLC):** Establishes procedures, practices, and guidelines governing IT strategic planning, asset management, project initiation, concept development, planning, requirements analysis, design, development, integration and test, implementation, operations and maintenance, and disposition of information systems within BPA. One of the key aspects of the SLC is to ensure an orderly and consistent method of developing and deploying systems.
- M. **North American Electric Reliability Corporation (NERC):** The Federal Energy Regulatory Commission (FERC) appointed Electric Reliability Organization (ERO), responsible for development of the reliability standards for the Bulk Electric System.
- N. **Critical Infrastructure Protection (CIP) [NERC CIP]:** The specific set of reliability standards, developed by NERC, pertaining to the physical and cyber security of BES critical assets.
- O. **CIP Exceptional Circumstance:** A situation that involves or threatens to involve one or more of the following, or similar, conditions that impact safety or BES reliability: a risk of injury or death; a natural disaster; civil unrest; an imminent or existing hardware, software, or equipment failure; a Cyber Security Incident requiring emergency assistance; a response by emergency services; the enactment of a mutual assistance agreement; or an impediment of large scale workforce availability.

5. Policy

All BPA Information and Information Systems shall adhere to the provisions specified within FISMA, and further clarified within the following sections.

Management of all BPA-owned or –managed cyber systems must conform to the detailed requirements set forth under the BPA Cyber Security Program Plan, as currently amended.

- A. **Assignment of System Owner:** All devices that meet the definition of IT shall have an SO assigned and be included in the inventory of an System Security Plan (SSP) as approved by the BPA Office of Cyber Security. SOs will be designated in writing by the CIO and will be responsible for implementation of all provisions in this policy. Highest priority will be given to implementation of real time automated capability for monitoring vulnerabilities, configuration management, asset management and security event logs.

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- B. Cyber Security Risk Management:** A cyber security risk management program must be implemented and maintained to identify, evaluate, reduce, and accept security risk to BPA for all BPA cyber systems. The risk management program will consist of a method to categorize systems based on potential threat and impact to BPA missions, evaluate existing compensating controls, and manage exceptions identified through the program.
- C. Security Assessment and Authorization:** Processes must be in place to ensure adequate security assessment and formal risk determinations or decisions for all BPA information and cyber systems. The AO is formally responsible for accepting risk to BPA and providing Authority To Operate (ATO) for all cyber systems. All systems must be incorporated into the BPA security risk management framework, based on each system's security category.

Implementation of BPA's cyber and cyber security systems must meet these objectives:

1. Periodically assess the security controls in organizational cyber systems to determine if the controls are effective in their application.
2. Develop and implement plans of action designed to correct deficiencies and reduce or eliminate vulnerabilities in organizational cyber systems.
3. Authorize the operation of organizational cyber systems and any associated cyber system connections.
4. Monitor cyber system security controls on an ongoing basis to ensure the continued effectiveness of the controls.

- D. Minimum Security Requirements:** All cyber systems that support BPA mission functions must meet the minimum security requirements. The minimum security requirements cover twenty security-related areas with regard to protecting the confidentiality, integrity, and availability of BPA information and operational technology systems (cyber systems) and the data or information processed, stored, and transmitted by those systems. Specific requirements are located in the Cyber Security Program Plan (CSPP) unless otherwise noted. The system security plan (SSP) will show if scoping and tailoring results in controls, or control enhancements that differ from CSPP requirements.

1. **Access Control:** Controls for both physical and electronic access must be provided for all personnel, devices and processes before granting any privileges within, or access to BPA cyber systems. Access controls for all BPA cyber systems must be implemented based on the principles of least-privilege and separation of duties.
2. **Awareness and Training:** Security awareness and training must be provided for all personnel with authorized access to cyber systems that support BPA mission functions.
3. **Audit and Accountability:** All cyber systems that support BPA mission functions must incorporate auditing and accountability capabilities commensurate with each cyber system's security category.
4. **Certification, Accreditation, and Security Assessments:** BPA's office of Cyber Security will:

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- a. Periodically assess the security controls in cyber systems to determine if the controls are effective in their application;
 - b. Work with SOs to develop and track the implementation of plans of action designed to correct deficiencies and reduce or eliminate vulnerabilities in organizational information systems;
 - c. Monitor information system security controls on an ongoing basis to ensure the continued effectiveness of the controls.
 - d. If a cyber system is contained within an authorization boundary for an existing authorization, has the same general security requirements and is under the same management control, it can “inherit” the authorization to operate provided it has been assessed or is under adequate continuous monitoring.
5. **Configuration and Change Management:** Configuration and Change Management must be performed for all cyber systems that support BPA mission functions commensurate with each cyber system’s security category. The Configuration and Change Management program must be implemented in a manner to track and manage all system changes, to reduce the risk of impact to BPA’s missions.
 6. **Contingency Planning:** Contingency planning must be an integral part of each cyber system’s operational profile, commensurate with each system’s security category.
 7. **Identification and Authentication:** Identification and authentication controls must be commensurate with each cyber system’s security category and must be provided for all personnel, devices, and processes with authorized access to cyber systems that support BPA mission functions.
 8. **Incident Response:** Incident response, i.e., incident handling and management, must be provided for all cyber systems that support BPA mission functions. BPA’s specific approach to declaring and responding to CIP Exceptional Circumstances are described in processes owned and maintained by the CIP Senior Manager.
 9. **Maintenance:** Structured maintenance programs must be in place for all cyber systems that support BPA mission functions, commensurate with each system’s status in the BPA Systems Life Cycle (SLC) standard and its security category.
 10. **Media Protection:** Media protection policy must be established at all levels of the systems. The policy will address the access, marking, storage, transport, sanitization, use, and downgrading (applies to digital and non-digital media subject to release outside of the organization, whether the media is considered removable or not.)
 11. **Physical and Environmental Protection:** Physical and environmental protection must be provided for all cyber systems that support BPA mission functions, commensurate with each system’s security category.
 12. **Planning:** BPA must develop, document, periodically update, and implement security plans for cyber systems that describe the security controls in place or planned for the cyber systems and the rules of behavior for personnel accessing the cyber systems. These plans are to be documented or referenced in the SSP.

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13. **Program Management:** BPA must provide an overview of the requirements for the security program and a description of the security program management controls and common controls in place or planned for meeting those requirements.
14. **Personnel Security:** Personnel security programs must be in place for all personnel who have authorized access to cyber systems that support BPA mission functions, commensurate with each cyber system's security category. Personnel security requirements and implementation details are located in the BPA internal policy documents related to Personnel Security.
15. **Personally Identifiable Information Processing and Transparency:** Policy and procedures to address the authority to process personally identifiable information (PII), purpose of processing, consent, privacy notice, system of records notice, categories of PII, and system matching of PII.
16. **Risk Assessment:** Periodically assess the risk to organizational operations (including mission, functions, image, or reputation), organizational assets, and personnel, resulting from the operation of organizational information systems and the associated processing, storage, or transmission of organizational information through means described in the Cyber Security Assessment Program.
17. **System and Services Acquisition:** BPA prioritizes system and service acquisition activities to ensure that corrective actions identified in required annual FISMA reporting are incorporated into the capital planning process to deliver maximum security in a cost-effective manner. Funding high-priority security investments supports BPA's objective of maintaining appropriate security controls, both at the enterprise and system levels, commensurate with levels of risk and data sensitivity. System and Services Acquisition requirements and implementation details are located in the BPA internal policy documents specifically BPA Policy 473-1, Acquisition of IT Assets.
18. **System and Communication Protection:** System and communication protections must be provided for all cyber systems that support BPA mission functions, commensurate with each cyber system's security category. The systems and communication protections must be incorporated into an overall BPA strategy that implements the defense-in-depth security principle.
19. **System and Information Integrity:** System and information integrity programs must be provided for all cyber systems that support BPA mission functions, commensurate with each system's security category.
20. **Supply Chain Risk Management:** Policies and procedures to address a supply chain risk management plan, controls and processes, provenance (chronology of the origin, development, ownership, location, and changes to a system or system component and associated data), acquisition tools, strategy and methods, supplier assessment and reviews, operations security, notification agreements, tamper resistance and detection, inspection of system components, component authenticity, and component disposal.

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6. Policy Exceptions

Exceptions (to include NERC CIP related Technical Feasibility Exceptions) are defined as any non-conformity of programs, processes, or technologies as they relate to the requirements established within this policy and supporting standards.

All exceptions must be documented within thirty days of identification, and submitted no later than sixty days prior to compliance deadlines for approval by the CISO. Documentation of all existing and terminated exceptions shall be maintained and tracked as compliance artifacts.

7. Responsibilities

A. BPA Authorizing Official (AO)

Grants formal Authority To Operate for information systems according to the BPA security authorization process. AOs may appoint one or more AO Designated Representatives to act on their behalf. The AO exercises inherent federal government authority and must be a federal employee. The AO must have authority to oversee the budget and business operations of information systems within BPA. The AO at BPA is a formal delegation available in Section IV of the Cyber Security Program, *Letters of Delegation and Designation*. The BPA AO function is performed by the Chief Administrative Officer. The AO is the only individual at BPA that can accept cyber system risk to BPA operations (including mission, functions, or reputation), BPA assets, or individuals.

B. BPA Chief Information Security Officer (CISO) / BPA Senior Agency Information Security Officer (SAISO)

Develops and maintains the BPA cyber security program and all supporting governance and standards documentation. The CISO facilitates external and internal information security reviews, and coordinates site visits that support federal and DOE oversight and audits. The CISO provides an independent assessment of all NIST security controls for governance, compliance and oversight, and specific direction, guidance and assistance to correct deficiencies. The CISO provides technical testing and control assessment to the FERC governance and compliance office. For information security matters, the CISO serves as the CIO's primary liaison to BPA's AO, information owners, and system owners. The CISO develops and maintains BPA's information security program to ensure effective implementation and maintenance of required information security policies, procedures, and control techniques. The CISO acts as the Authorizing Official Designated Representative (AODR) when the AO is unavailable.

C. BPA Authorizing Official Designated Representative (AODR)

The AODR is an organizational official that acts on behalf of an AO to coordinate and conduct the required day-to-day activities associated with the security authorization process. The BPA AODR is delegated and empowered by the AO to make decisions with regard to the planning and resourcing of the security authorization process, approval of the security plan, approval and monitoring the implementation of plans of action and milestones, and the assessment and/or determination of risk.

D. IT Security Executive Risk Review Board (ITSERRB)

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The ITSERRB serves within BPA’s governance framework as a senior management forum to provide assurance about effective cyber security risk management and internal control. The ITSERRB provides this assurance through the following responsibilities:

- Review and approval, on at least an annual basis, of BPA’s formal risk management framework for level one and level two risks, which must include:
 - risk-based processes for making information risk decisions;
 - clearly defining risk thresholds and risk acceptance levels;
 - capturing (through a risk registry), monitoring, and mitigating risks; and
 - identification of common controls for risk mitigation implemented by management and mapped to internal controls program.
- Ensure all roles and responsibilities in NIST 800-37 Appendix D are appropriately designated through policy or, where appropriate, to a senior official through the BPA delegations management system in the Customer Contract Management system.
- Review assurance reports that operations plans and program plans appropriately integrate cyber security risk strategy within the larger BPA strategy.
- Direction, review, and approval of periodic level one and level two cyber security risk assessments (with aggregation of the CIO/CISO’s assessment of level three risks), including periodic review of management’s common controls implementation.
- Risk review of all high impact findings from Security Assessment Reports (SARs) submitted to the Authorizing Official (AO) for Authority to Operate, as well as risk review of additional (medium or low) impact findings from SARs as recommended by the AO.
- Risk review of all Plans of Action and Milestones (POAMs) that are more than 30 days overdue for resolution/closure.
- Quarterly report to the BPA Administrator on status of efforts directed by the ITSERRB.
- Report to the ACGC on issues as deemed necessary by the Chair and Administrator.

All systems needing, or in the judgement of the CISO might need, a formal risk determination from the authorizing official will be presented to the ITSERRB. In addition, any member of the ITSERRB can recommend agenda items to the Chair for the meetings. The Chair shall set the agenda for each meeting after allowing for input from committee members. Key ITSERRB documents, including agendas, supplemental materials, and decision documents will be posted on the ITSERRB SharePoint site. Access to documents on this site will be restricted as necessary to meet standards of conduct and information security standards. Assessment materials will be made available a week prior to the ITSERRB meeting (ITSERRB meets monthly). Cyber Security will be asked to give a quick 10 minute overview of the assessment prior to ITSERRB discussion and to be available to answer questions.

The ITSERRB has the ability to escalate a Security Assessment to the Audit Compliance & Governance Committee (ACGC) if it warrants discussion at that level, as well as review any risk associated with the assessment. The BPA Administrator sits on the ACGC, which provides direction on higher level risks.

Once the Security Assessment is reviewed, it will then be presented to the AO for signature. The package presented to the AO would include any open POAMs related to the system.

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E. Information Owners (IO)

Official responsible for determining and declaring the sensitivity of the information created, processed, stored, transferred, or accessed on the information system. IOs advise the SO of any special protection requirements of the information. IOs are responsible to approve and review access to cyber assets and to inform the authorizing official of business or mission risks regarding cyber security vulnerabilities or controls. IOs are responsible to understand how cyber security risks affect the devices and systems that impact their mission.

F. System Owner (SO)

The SO is responsible for the overall procurement, development, integration, modification, or operation and maintenance of one or more information systems. The SO is responsible for operating an information system on behalf of one or more IOs, who specify the data access requirements and conditions which meet the business requirements supported by the system. The SO coordinates all aspects of the system from initial concept, through development, to implementation and system maintenance. The SO is responsible for the selection, development, maintenance and effective implementation of all applicable security controls for each information system. ISOs are responsible for ensuring the IO knows their functional responsibilities and the general cyber security posture of the equipment and systems that support the IO mission functions and sub functions. SO responsibilities include:

- a. Establishing, documenting, and maintaining a role-based access model
- b. Approving, granting, and revoking access based on the principle of “least privileged”
- c. Tracking owners and users of shared access accounts
- d. Performing and reporting periodic reviews of access lists
- e. Ensure cyber security testing is performed in a manner that reflects production with minimal impact to operations
- f. Developing and maintaining Contingency-Recovery plans, pursuant to this policy
- g. Ensuring annual recovery and integrity testing of backup media
- h. Ensuring compliance with all other controls set forth in these policies
- i. Act as the subject matter expert representatives
- j. Reviewing and retaining (for three calendar years) all records of granting, changing, or revocation (to include date) of physical and cyber access
- k. Ensuring personnel with access to Bulk Electric System (BES) Cyber Systems comply with all relevant NERC CIP requirements
- l. Reviewing and updating all user access quarterly
- m. Documenting the results of all user access review activity

G. System Security Officer (SSO)

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For each information system for which he or she is responsible, the SSO must identify and document within the SSP the operation of the information system, unique threats to the information system, and any special protection requirements identified by the SO.

H. **System Security Manager (SSM)**

The SSM has the detailed technical knowledge and expertise required to manage the security aspects of the cyber system and is assigned responsibility for the day-to-day security operations.

I. **Common Control Provider**

The common control provider is an individual, group, or organization responsible for the development, implementation, assessment, and monitoring of common controls (i.e., security controls inherited by information systems). Common control providers are responsible for: (i) documenting the organization-identified common controls in a security plan (or equivalent document prescribed by the organization); (ii) ensuring that required assessments of common controls are carried out by qualified assessors with an appropriate level of independence defined by the organization; (iii) documenting assessment findings in a security assessment report; and (iv) producing a plan of action and milestones for all controls having weaknesses or deficiencies. Security plans, security assessment reports, and plans of action and milestones for common controls (or a summary of such information) is made available to the SO inheriting those controls after the information is reviewed and approved by the senior official or executive with oversight responsibility for those controls.

J. **NERC CIP Senior Manager**

The NERC CIP Senior Manager is assigned overall responsibility and authority for managing the implementation of and compliance with NERC CIP standards. Any change to this designation must be documented within thirty calendar days of the effective change. The NERC CIP Senior Manager will ensure that

- Bulk Electric System (BES) cyber systems, as defined by NERC, have a formally appointed IO and SO.
- all BES assets that meet the federal definition of IT are managed in conformance with this policy.
- any conflicts with Department of Energy directives or the BPA CSPP are resolved or documented as an exception.

8. **Standards & Procedures**

Control families, and the control requirements governing implementations of each control family, are specified in the CSPP and the BPA Information Technology Architecture, the BPA Policy Library, the SSP, or elsewhere as indicated.

Cyber Security Program Standards are available on the BPA Office of Cyber Security Intranet Site.

Applicable standards are located or referenced within the Bonneville Information Technology Architecture (BITA) published on the Chief Information Officer (CIO) SharePoint site.

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System Life Cycle (SLC) processes, procedures, document templates, and examples are published on the CIO's SLC SharePoint site.

The CSPP and associated standards and requirements are located on the BPA Office of Cyber Security Website.

Other procedures and internal requirements to meet specific requirements of federal regulation and NERC CIP standards are located in other documentation as noted in this policy.

9. Performance & Monitoring

The Transmission Technology Security and Compliance Team shall provide quarterly management reporting to the CISO and NERC CIP Senior Manager with regard to compliance with this policy.

10. Authorities & References

- A. 44 USC § 3601, *E-Government Act*, 2002
- B. 44 USC § 3541, et seq., *Federal Information Security Management Act (FISMA)*, 2002
- C. DOE Order 205.1B, *Department of Energy Cyber Security Management Program*
- D. North American Electric Reliability Corporation Critical Infrastructure Protection (NERC CIP) standards
- E. FIPS 199, *Standards for Security Categorization of Federal Information and Information Systems*
- F. FIPS Publication 200, *Minimum Security Requirements for Federal Information and Information Systems*
- G. Pub. L. 103-62, as amended, *Government Performance and Results Act of 1993*

11. Review

This policy shall be reviewed by the policy owner annually for relevant purpose, content, currency, effectiveness, and metrics.

12. Revision History

Version	Issue Date	Description of Change
1.0	12/8/2014	Initial creation from GOISSM Policy doc
2.0	1/30/2015	Revisions for Cyber Security Program inclusions
3.0	3/2/2015	Grammatical corrections from RFC, moved a few blocks to appropriate sections, added CIP Exceptional Circumstances
3.1	5/13/2016	Administrative updates to definitions for consistency across policies
3.2	6/18/2018	Minor updates to formatting, use of acronyms, two name changes: BES instead of CCA, and TTSCT instead of GOISSM
3.3	8/31/2018	Minor updates required by the ICOT and DOE IG

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3.4	6/27/2019	Changed AO responsibility from COO to CAO per approved delegation
3.5	9/11/2020	Updated language regarding incident response/CIP exceptional circumstance process documentation
3.6	11/23/2021	Updates required by retirement and replacement of reviewing bodies (no longer a CTO position, ICOT replaced by ITSERRB); minor grammatical and clarity corrections; corrected Minimum Security Requirements, and Responsibilities.

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