



U.S. DEPARTMENT OF  
**ENERGY**



# **Office of Cyber Assessments Program Plan**



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**Office of Cyber Assessments  
Office of Enterprise Assessments  
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## Office of Cyber Assessments Program Plan

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## Office of Cyber Assessments Program Plan

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## Office of Cyber Assessments Program Plan

### Table of Contents

1.	Introduction.....	1
	Purpose .....	1
	Authorities .....	1
	Implementation .....	1
2.	Mission and Vision.....	2
	EA-60's Mission .....	2
	EA-60's Vision .....	2
	Core Principles.....	2
3.	Governance and Organizational Functions.....	4
	Office of Cyber Assessments (EA-60) Functions.....	4
	Office of Cyber Assessment Strategy (EA-61) Functions .....	5
	Office of Cyber Assessment Operations (EA-62) Functions .....	6
4.	Assessment Capabilities, Methods, and Results .....	6
	Assessments and Special Project Capabilities .....	7
	Assessment Methods .....	7
	Assessment Results .....	7
5.	Stakeholders and Collaboration .....	8
	Collaboration .....	9
6.	Learning and Improving .....	10

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## Office of Cyber Assessments Program Plan

### 1. Introduction

#### Purpose

This program plan describes the Office of Cyber Assessments (EA-60) authorities and how the office accomplishes its responsibilities. This plan outlines the mission, vision, core principles, governance, organizational structure, and capabilities that define the independent cyber assessment program operating within the DOE Office of Enterprise Assessments (EA).

#### Authorities

The DOE Independent Oversight program is implemented by EA, according to the requirements established in DOE Policy 226.2, *Policy for Federal Oversight and Contractor Assurance Systems*, which establishes the expectation for the implementation of a comprehensive and robust oversight process that enables the Department's mission to be accomplished effectively, efficiently, safely, and securely; and DOE Order 227.1A, *Independent Oversight Program*, which identifies EA-60 as the organization responsible for conducting cybersecurity assessment activities for DOE sites and facilities. In addition, EA-60 conducts assessments of DOE and NNSA national security and intelligence systems to meet the annual independent requirements of the Federal Information Security Modernization Act (FISMA) of 2014.

DOE Order 205.1 (latest version), *Department of Energy Cybersecurity Program*, formally delegates Secretarial authority for cybersecurity to the Deputy Secretary. The Order assigns the EA Director the responsibility of providing independent oversight of the DOE cybersecurity program in accordance with EA's mission, functions, assigned responsibilities, and associated national requirements and DOE directives. DOE Order 205.1 also defines requirements for developing and reporting on corrective actions (i.e., plans of action and milestones) related to weaknesses identified during EA cyber assessment activities.

#### Implementation

Using these authorities, EA-60 implements the Department's cybersecurity independent oversight assessment program in accordance with applicable requirements and approved internal protocols. EA-60 is responsible for evaluating, assessing, and reporting on the effectiveness of the Department of Energy (DOE) cybersecurity programs, including those of the National Nuclear Security Administration (NNSA) and contractor organizations, Office of Environmental Management, Office of Science, Power Marketing Administrations, Office of Intelligence and Counterintelligence, and all other Departmental Elements under DOE. EA-60 also develops the annual FISMA assessment metrics and reports for DOE national security and intelligence systems. EA-60 conducts extensive planning to tailor assessment activities appropriately. This aids in characterizing assessment results in the most meaningful way to further the mission of the Department. Additionally, EA-60 conducts special assessments as requested by the Office of the Secretary or other stakeholders, performs follow-up actions for concerns identified during assessment activities as required, and shares a summary of results, lessons learned, common

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## Office of Cyber Assessments Program Plan

issues, and good practices derived from the assessments performed across the Department. EA-60 also collaborates with numerous entities within and outside the EA to remain aware and knowledgeable of the Department's priorities and challenges throughout the Federal government.

## 2. Mission and Vision

### EA-60's Mission

EA-60 conducts independent evaluations of the effectiveness of classified and unclassified cybersecurity policies and programs throughout the Department. EA-60 uses its knowledge and expertise of the DOE missions to develop threat-informed assessment programs that provide results to risk decision makers to enhance their cybersecurity capabilities and support the secure enablement of the site or program mission. These activities include tailored cybersecurity program performance assessments in critical areas needed to protect the information, systems, and technology assets from cyber threats. In addition, EA-60 uses technical performance to evaluate security defenses and incident response capabilities. The EA-60 assessments teams may also exploit vulnerabilities to demonstrate the potential impact if leveraged by an adversary or malicious insider. These activities are aligned with the risk management framework and oversight requirements outlined by national policy and DOE Orders.

### EA-60's Vision

To be the premier cybersecurity assessment organization for the Department of Energy by supporting our stakeholders with valuable information to assist in making effective risk decisions.

### Core Principles

Our culture is a key component of our organization's ability to achieve our mission. The culture provides the intangible factors that enable our team to provide the highest quality assessment services while supporting our most important asset: our people.

The core principles enabling this culture include our values, our expertise, and our continuous learning. These principles provide a framework for how our offices work with each other and with our stakeholders and describe the characteristics of our team both individually and collectively. Enhancing the workplace culture is a priority for EA-60 that motivates and empowers the team, leverages expertise, and encourages continuous improvement.

These principles and the supporting performance characteristics are depicted below.

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## Office of Cyber Assessments Program Plan



The culture is foundational to supporting our mission. The mission requires specific actions to execute the EA-60 vision. However, those actions require enabling leadership and direction to incorporate our cultural principles with our mission. These core principles will be used as a model for the leadership and workplace culture in the office and will guide our decisions and priorities to achieve the EA-60 mission.

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## Office of Cyber Assessments Program Plan



### 3. Governance and Organizational Functions

To enable the execution of our mission, EA-60 comprises two sub-offices: Office of Cyber Assessment Strategy (EA-61) and Office of Cyber Assessment Operations (EA-62). EA-60 provides management, budget support, and strategic direction, while EA-61 and EA-62 are the implementation offices for the mission.

#### Office of Cyber Assessments (EA-60) Functions

With support from other Federal management and contractor resources, the EA-60 Director and Deputy Director lead the development and prioritization of initiatives and overall program management. The EA-60 Director is the Senior Federal Executive responsible for management of all EA-60 assessment policy, planning, and operations of this office. The Director forecasts the budget and expenditures for travel, training, and other direct costs and serves as the conduit for all external communications. The Director is also responsible for developing and maintaining the EA-60 workplace culture, ensuring respect, accountability, continuous learning, and delivery of high-quality results to EA-60's stakeholders. The Director is also responsible for ensuring that all Federal and contractor EA-60 employees adhere to DOE and site-specific safety



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## Office of Cyber Assessments Program Plan

and security program requirements when conducting assessment activities at DOE sites. The Director is the rating official for the EA-60 Deputy Director and serves as a technical monitor for the support services contract.

The EA-60 Director is supported by the Deputy Director who is responsible for ensuring the implementation of the direction set forth by the Director and acts on their behalf if they are unavailable. They are also responsible for ensuring the functions of the office are operating in accordance with DOE and EA requirements and protocols. The Deputy Director also ensures the effective implementation of the EA-61 and EA-62 strategy, results, ongoing learning, and workforce culture monitoring. The Deputy Director is the rating official for the directors of EA-61 and EA-62.

The Director communicates objectives for projects, priorities, and assessment activities to the EA staff and stakeholders through informal and formal methods (e.g., emails, memorandums, reports, policies, performance plans, contract performance feedback) and during structured meetings (e.g., leadership and staff meetings, post-assessment briefings). The Director and Deputy Director also set objectives that align with the functional areas for each sub-office that are outlined below.

### Office of Cyber Assessment Strategy (EA-61) Functions

EA-61 is responsible for conducting in-depth threat analysis, high-level focused evaluations, and effective knowledge management practices. With a primary focus on emerging cybersecurity information, regulatory requirements, and stakeholder input, EA-61 strives to enhance the overall effectiveness of cybersecurity assessments by providing decision support to EA leadership, enhancing threat information to assessment leadership, and ensuring efficient knowledge utilization within the organization.

EA-61 knowledge development and management functions include advanced research and correlation of cybersecurity information relevant to a specific DOE site, program, or mission area. EA-61 and 62 summarizes its assessment results and presents them to senior management within DOE, Departmental Elements, or at the request of specific stakeholders. Additionally, EA-61 develops threat information and site reference information and correlates relevant cybersecurity incidents, site cybersecurity conditions, emerging cybersecurity requirements, and other relevant information to enable a more effective review of cybersecurity programs across the Department. EA-61 is also responsible for developing and implementing the required information sharing infrastructure to facilitate improved knowledge sharing and reporting for EA-60 and other organizations. EA-61 is led by the Director, Office of Cyber Assessment Strategy, with support from Federal and support services contractor staff.

Additional information related to the mission, capabilities, and structure of EA-61 can be found in the Office of Cyber Assessment Strategy - Concept of Operations ([external link](#)).

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## Office of Cyber Assessments Program Plan

### Office of Cyber Assessment Operations (EA-62) Functions

EA-62 is responsible for the initiation, planning, conducting, and reporting on the independent assessments of the effectiveness of classified and unclassified cybersecurity programs implemented throughout the Department. The office has established and maintains a continuous program for assessing the security of DOE sites and cybersecurity programs through remote and onsite program reviews, including cybersecurity program interviews and technical analysis performed by Federal and support services contractor subject matter experts (SMEs). Information is gathered from EA-61 and detailed discussions regarding the site's cyber program and technical implementation to plan and scope the assessment appropriately. EA-62 combines this information with interviews and technical performance testing to evaluate a program's ability to detect and respond to malicious activity and detect weaknesses that can be exploited by adversaries. As part of these services, EA-62 develops and delivers a series of assessment reports each year that document the analysis and results of each cybersecurity assessment. EA-61 and 62 also combines these results into briefings and other artifacts to support the Director by sharing results throughout the Department.

EA-62 capabilities include replicating the techniques, tactics, and practices of adversaries, and serving as SMEs for cybersecurity in project teams and other forums where they represent EA. The EA-62 SMEs support EA-60 with independent studies of cybersecurity topics of interest to the DOE community and perform reviews of cybersecurity topical areas that support the analyses to identify crosscutting and emerging issues. An additional core function of EA-62 is to develop and maintain a cybersecurity testing platform to evaluate the effectiveness of cybersecurity processes and technologies implemented across the DOE Enterprise. EA-62 is led by the Director, Office of Cyber Assessment Operations, with support from Federal and support services contractor staff.

Additional information related to the mission, capabilities, and structure of EA-62 can be found in the Office of Cyber Assessment Operations – Assessment Process Guide ([external link](#)).

### 4. Assessment Capabilities, Methods, and Results

Cyber threats are continuously increasing across the Department and the Federal Enterprise, and adversaries continue to enhance their techniques, tactics, and practices. Resources, both personnel and technology, also continue to be a challenge across DOE. EA-60 must continue to evolve its processes and results to support informed risk decisions and resource allocation by DOE leadership.

Therefore, it is a priority for EA-60 to ensure ongoing development and implementation of technologies and processes to maintain advanced, threat-informed programs and technical assessment capabilities. These capabilities then provide results used by DOE to enhance its cybersecurity programs. The following is a list of examples of these capabilities and results provided through the EA-60 assessments.

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## Office of Cyber Assessments Program Plan

### Assessments and Special Project Capabilities

- Conduct approximately 15–18 (announced and unannounced) assessments annually
- Assess sensitive compartmented information facilities, special access programs, industrial control systems, software applications, physical access control systems, High Value Assets (HVAs), national security systems, and intelligence systems
- Develop threat reports and other knowledge management artifacts to define and support assessment strategies
- Conduct special projects: continuous network scanning, boundary scanning

### Assessment Methods

- Programmatic Review
  - Local implementation and requirements analysis
  - Cyber oversight and governance review
  - Issues management effectiveness review
  - Correlating technical implementation weakness to process failures and/or process weaknesses to technical vulnerabilities
- Technical Testing
  - Testing effectiveness of security and defense in depth measures
  - Using Insider-focused tactics and threat-informed methods
  - Evaluating incident response capabilities and performance
  - Determining detection effectiveness
- Results Analysis
  - Issues and strengths in context of mission
  - Impact of weaknesses based on defense in depth
  - Effectiveness of issues management processes to prevent recurrence
  - Ability for oversight to effectively monitor performance

### Assessment Results

- Learning and Collaboration
  - Gathering retrospectives and lessons learned to inform later assessments
  - Gathering report and assessment feedback from leadership to inform later assessments
  - Developing good practices and crosscutting issues for briefing to senior leadership
  - Sharing results and crosscutting issues with DOE cyber community
  - Collaborating with other EA offices to identify cross-cutting issues
- Reports, White Papers, and Briefings
  - Annually produce ~20 reports, including the DOE's Intelligence Community Inspector General FISMA report, and DOE National Security Systems FISMA metrics
  - Brief the Departmental Elements, Energy Facility Contractors Group, working groups, and others on the latest results and observations from assessments and ongoing evaluations

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## Office of Cyber Assessments Program Plan

### 5. Stakeholders and Collaboration

Effective execution of the mission requires collaboration with stakeholders internal and external to DOE. The following table outlines the stakeholders with which EA-60 partners to accomplish its mission.

Stakeholders	Role
Departmental Leadership	<ul style="list-style-type: none"><li>- Provide strategic vision and prioritization of key initiatives that impact the organization</li><li>- Provide feedback on assessment approach</li><li>- Provide priorities and focus areas for assessments</li></ul>
EA Leadership	<ul style="list-style-type: none"><li>- Propagate policy oversight of independent assessments</li><li>- Provide strategic vision and prioritization of key initiatives that impact the organization</li></ul>
Departmental Elements	<ul style="list-style-type: none"><li>- Leverage EA assessment services</li><li>- Provide mission/business input and expertise to assist in EA planning</li></ul>
Other EA Offices	<ul style="list-style-type: none"><li>- Provide additional enforcement, assessment, and training information to aid in planning and conducting cyber assessments</li><li>- Collaborate on combined assessment activities</li><li>- Share lessons learned, results, and cross-cutting issues</li></ul>
DOE Office of the Chief Information Officer	<ul style="list-style-type: none"><li>- Provide enterprise risk analysis and information technology program support</li><li>- Lead and cultivate the Privacy Program for the Department</li><li>- Create and disseminate cyber training and awareness</li><li>- Partner with the Departmental Elements to assess and report on the HVAs and completion of corrective actions</li><li>- Provide supply chain risk management evaluations</li><li>- Provide incident awareness and reports from the enterprise</li><li>- Provide key site and enterprise information from incident reports, network tools, data calls, and other sources to support the EA mission</li><li>- Provide information technology resources and collaboration tools to facilitate communication and information exchange to support the EA mission</li></ul>
NNSA Office of the Chief Information Officer	<ul style="list-style-type: none"><li>- Provide incident awareness and reports from the NNSA enterprise and classified networks</li><li>- Provide results from enterprise cybersecurity exercises for collaboration with the EA mission</li><li>- Collaborate with EA on assessments of high-priority projects</li></ul>

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## Office of Cyber Assessments Program Plan

Stakeholders	Role
DOE Office of the Inspector General	<ul style="list-style-type: none"><li>- Coordinate annual assessments, prioritization, and deconfliction between Inspector General audit and EA assessment activities</li><li>- Coordinate with EA on annual FISMA metrics for DOE information systems</li><li>- Address special projects related to DOE Office of Intelligence and Counterintelligence information systems</li></ul>
Department of Homeland Security	<ul style="list-style-type: none"><li>- Engage with DOE regarding the HVA program</li><li>- Utilize EA assessment results for inclusion in the DOE HVA program</li></ul>
Intelligence Community Inspector General	<ul style="list-style-type: none"><li>- Provide annual intelligence community FISMA metrics</li><li>- Provide input and expertise to support the EA mission</li></ul>
NNSA-Information Management Inspection Team	<ul style="list-style-type: none"><li>- Coordinate annual assessments, prioritization, and deconfliction</li></ul>
Office of Environmental Management Mission Information Protection Program	<ul style="list-style-type: none"><li>- Coordinate annual assessments, prioritization, and deconfliction</li></ul>
Office of Cybersecurity, Energy Security, and Emergency Response	<ul style="list-style-type: none"><li>- Coordinate sharing of key threat or risk information for critical infrastructure within DOE</li><li>- Collaborate on consequence-driven, cyber-informed engineering assessment capabilities</li></ul>

### Collaboration

EA-60 works with the stakeholders above to share our results, deconflict priorities, and ensure alignment with mission-related activities. Stakeholder engagement allows EA-60 to build strategies and threat information and to plan and conduct assessments that provide results that positively impact and enable the mission of DOE. EA-60 shares assessment results through a variety of work and ongoing interactions, including:

- Participating in other EA offices' report reviews to provide insight and comments
- Collaborating with the Office of the Chief Information Officer and counterpart organizations across the DOE Enterprise in working groups for policy development, implementation of the latest requirements, and on new initiatives to improve cybersecurity
- Participating in DOE-sponsored boards and groups, such as the:
  - Cyber IT/OT Executive Council,
  - HVA Program Management Office,
  - Information Management Governance Board,
  - Enterprise Architecture Governance Board,
  - Chief Information Security Officer Roundtable, and
  - Insider Threat Working Group.

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## Office of Cyber Assessments Program Plan

- Conducting stakeholder engagements to better understand the unique mission aspects and risks across DOE sites
- Conducting strategic engagements with Departmental Elements, the Energy Facilities Contractor Operations Group, and the National Laboratories Chief Information Officers council to gain insights into their priorities as well as gather feedback on our assessment results, and share lessons learned
- Developing and leading EA Learning Sessions to discuss EA-60 results, crosscutting issues, and cyber happenings with the larger EA office
- Presenting at Departmental Element briefings, contractor working groups, and other project teams on EA-60 cyber assessment results, common issues, and good practices
- Developing roll-up reports of key issues within the Departmental Elements and briefing those on a routine basis to senior management.

The office will continue to expand its collaboration and engagement by providing subject matter expertise for review and comment on congressional bills, Departmental cybersecurity policy, and other documents as requested.

### 6. Learning and Improving

EA-60 gathers lessons learned and other retrospective data points to help identify what processes work well and where changes might be needed. Over multiple assessments and activities, EA-60 analyzes this data for relevance and applicability. The output of this process is improvement initiatives that will be prioritized for implementation. The Director may also identify specific initiatives based on the needs and priorities of the Department.

The EA-60 Deputy Director, EA-61 Director, EA-62 Director, and the support services contract management work to develop objectives for improvement initiatives and then assign resources to participate in the development of potential solutions. This group will define the overall objective and criteria for success, but the work, implementation, and management will be done at the team level. The overall process is agile and iterative to build the best, enduring solutions. The assessment process and cybersecurity in general are not linear and require this flexibility to avoid static checklist/compliance-based processes, which will not meet the growing needs of our stakeholders.

All these efforts support enhancing the performance-based evaluation of cybersecurity programs and delivery of valuable results for the Department.