Center for Security Technology, Analysis, Response, & Testing (CSTART) Portal

May 2023

National Nuclear Security Administration

What is CSTART?

INNOVATE. COLLABORATE. DELIVER.

- A virtual portal that brings together subject matter experts from NNSA and partner organizations
  - Goal: Enhance the physical security program across NNSA's nuclear security enterprise
- Key functions:
  - Provide expertise on security technologies, systems, analysis, testing, inspection support, training, and response forces
  - Collect, analyze, and distribute lessons learned
  - Support inspections and oversight activities
  - Promote professional development and training for security professionals
  - Advocate for continual improvement and security excellence

CSTART Centers of Excellence

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PHYSICAL SECURITY CENTER OF EXCELLENCE (PSCOE)

To develop and implement physical security solutions for our nation's nuclear deterrence and critical assets against evolving threats

SECURITY OPERATIONS CENTER OF EXCELLENCE (SOCOE)

To contribute to the nuclear security operations and strategic initiatives, support a consistent and sustainable implementation of applicable programmatic regulations, and expand collaboration with all stakeholders, agencies, and partners

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CSTART Portal Access

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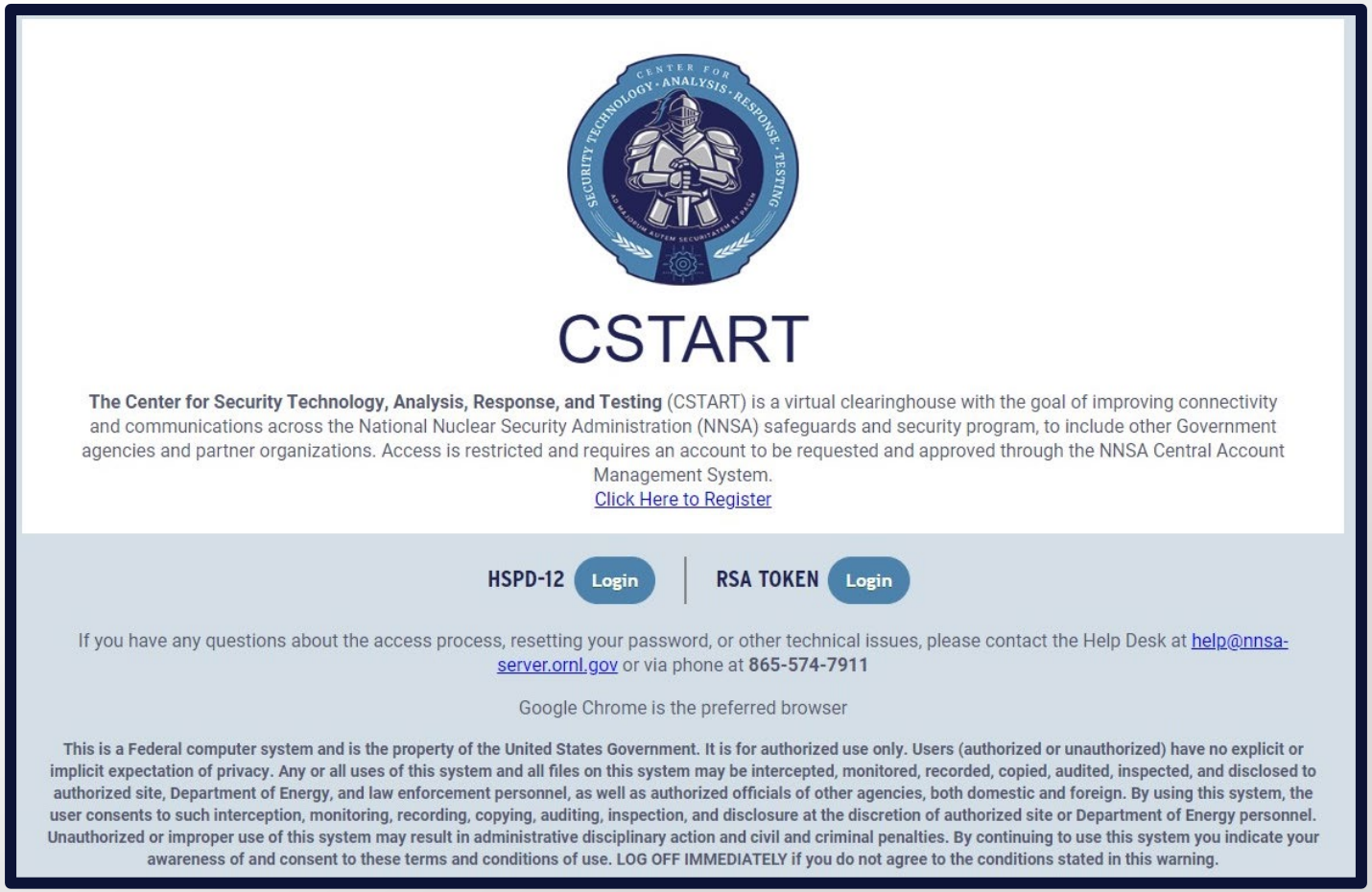

https://cstart-sec.nnsa.doe.gov

National Nuclear Security Administration

CSTART v2.8

- **CSTART v2.8 is Here! (5/1/23)**
- **Updated Search Capabilities**
  - Key word searching has been improved to provide more effective results of pages, posts, events, and attached documents.
- **Technical Security Program – Request For Information (RFI)**
  - New forms have been added to Contact Us allowing users to submit TEMPEST, Technical Surveillance Countermeasures, and Technical Security questions. There are also now moderated forums for Technical Security Program discussions.
- **Audience-targeted Menu Items**
  - Updates have been made to specific areas under the Library menu for users with additional access.
- **Additional Content Update, Enhancements, and bug fixes**
  - Numerous small tweaks, updates, and bugs have been addressed for a better user experience.

CSTART Main Page

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Upcoming Events

May 2
EFCOG Safeguards and Security Working Group Annual Meeting

May 16
National OPSEC Program: OPSEC and the Internet Course (OPSE-3500)

May 17
National OPSEC Program: OPSEC and Public Release Decisions (OPSE-1500)

June 6
National OPSEC Program: OPSEC Analysis Course (OPSE-2380)

June 7
National OPSEC Program: OPSEC Analysis Course (OPSE-2380)

View Calendar

National Nuclear Security Administration

PSCOE Highlights

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Home » Physical Security Center of Excellence (PSCOE)

Physical Security Center of Excellence (PSCOE)

The mission of the Physical Security Center of Excellence (PSCOE) is to is to develop and implement physical security solutions for our nation's nuclear deterrence and critical assets against evolving threats.

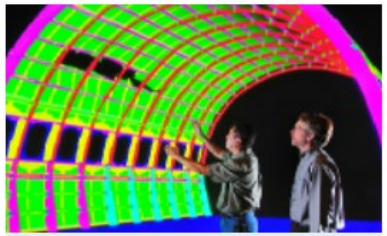
Site Resources

Research & Development

Read More

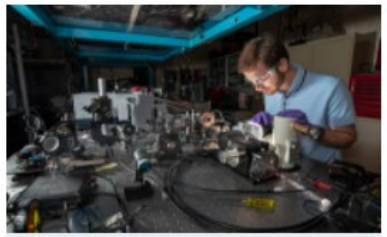
Testing & Evaluation

Read More



Design

Read More



Implementation

Read More

Security Infrastructure Support

Read More

Lessons Learned and Best Practices

Read More

Portable Intrusion Detection System (PIDS)

Objective

PSCOE has been tasked by DOE/NNSA and PSEAG to develop a Portable Intrusion Detection System to be used in a variety of potential use cases (e.g., static, strategic, tactical) for the protection of CAT I SNM and PL-1 areas.

The final system will be developed in a spiraling technology with the following development segments:

- Segment I: Develop PIDS joint requirements
- Segment II: Perform industry survey for PIDS
- Segment III: Design, build, and test a prototype system (Spiral 1)
- Segment IV: Design, build, and test an enhanced system (Spiral 2)
- Segment V: Design, build, and test an enhanced system (Phase II)

Potential Impact

Once completed, PIDS will be a rapidly deployable, portable, perimeter security system that is capable of modularly incorporating the necessary components (e.g., sensing, assessment, command control and display equipment, communications, and power) for a wide variety of use cases and locations in which it may be deployed to augment sentry guards.

Project Overview

- PIDS Flyer
- PIDS Phase II Overview

Project Documentation

- OUO/UCNI PIDS Joint Requirements Document
- OUO PIDS Setup and Dismantling Guide
- OUO PIDS Phase II Maintenance Guide
- OUO PIDS Phase II Development Report
- PIDS Phase III Development Plan

Project Charts

- OUO/UCNI PIDS Phase III Project Chart FY2021 T2
- OUO PIDS Phase III Project Chart FY2021 T1
- OUO PIDS Phase III Project Chart FY20 Q4
- OUO PIDS Phase III Project Chart FY20 Q3
- OUO PIDS Phase III Project Chart FY20 Q1
- OUO PIDS Phase II Project Chart FY20 Q1

SOCOE Highlights

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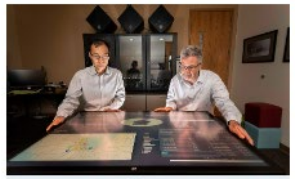
Security Operations Center of Excellence (SOCOE)

The mission of the Security Operations Center of Excellence (SOCOE) is to contribute to the nuclear security operations and strategic initiatives, support a consistent and sustainable implementation of applicable programmatic regulations, and expand collaboration with stakeholders, agencies, and partners.

Contact the SOCOE Liaison for more information.



S&S Topics

Information on this page is focused on the functional areas of security; Information Protection, Personnel Security, etc. More information is provided here.

S&S Evaluation Resources and Trending Information

Information to aid in the evaluation and oversight of safeguards and security programs is provided here.

Analysis and Analytics

Information pertaining to vulnerability assessment (VA) and security risk assessments (SRA) can be found here:

- Modeling and Simulation Tools
- Risk Assessments
- VA and SRA References

SOCOE Share: Security Awareness & Lessons Learned Resources

In an effort to promote security awareness across the complex and to share lessons learned, sites are encouraged to share their awareness materials or to submit a lessons learned or best practice article. Security awareness materials and guidance on how to create a lessons learned article, including a template and style guide for your submission, can be found on SOCOE share.

Do you have something you would like to share with the community? Please send an email to SOCOE Liaison to be featured.

Insider Threat Information

Information on this page is gathered from across the DOE complex, other government agencies, and industry to provide insider threat news and events to the S&S community. The Local Insider Threat Working Group Toolkit provides LITWGs with guidance, information, and resources from the Office of Insider Threat Program (ITP) to assist in deterring, detecting, and mitigating insider threats. More information is provided here.

General S&S Information

Information related to publications and items of interest to the S&S community is provided here.

Home » Security Operations Center of Excellence (SOCOE) » Safeguards & Security Topics

Safeguards & Security Topics

Title
Counter Uncrewed Aircraft System
Enterprise S&S Planning and Analysis Program
Human Reliability Program
Information Security
Material Control and Accountability
Personnel Security
Physical Security Systems
Program Planning and Management
Protective Force
Security Analysis Cell
Security Awareness Information
Technical Security Program

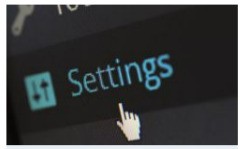
CSTART
Center for Security Technology, Analysis, Response and Testing

About | Library | PSCOE | SOCOE | SMIP | S&S Community | Contact Us | Log Out | Search

Home » Security Operations Center of Excellence (SOCOE) » SOCOE Share: Security Awareness & Lessons Learned Resources

SOCOE Share: Security Awareness & Lessons Learned Resources

SOCOE Share is a space to share security awareness materials and to learn more about how to submit a lessons learned or best practices article.



Security Awareness

In an effort to promote security awareness across the complex, sites are encouraged to share their awareness materials. Click here to take a look! Do you have something you would like to share with the security community? Please send an email to the SOCOE Liaison to be featured.

Lessons Learned & Best Practices Style Guide and Template

Want to submit a lessons learned or best practice article, but not sure how to write it? This style guide should help! There's also a template to help you get started. Click here to download a copy of the template (.docx).

Lessons Learned & Best Practice FAQs

Common best practice and lessons learned questions answered here.

National Nuclear Security Administration

SOCOE Highlights Cont….

S&S Evaluation Resources and Trending Information

Assessment Resources

- DOE-STD-1217-2020 Safeguards and Security Survey and Self-Assessment Planning Conduct and Reporting
- PPM Assessment Guide, Dec 2016
- PERSEC Assessment Guide, Dec 2016
- EA-22 Integrated Appraisal Guide, Jan 29, 2019
- 2020 EA Independent Oversight Program Appraisal Process Protocols
- DOE CMPC Marking Resource April 2020

DOE S&S Policy Information Resource (PIR)

The PIR is a great tool that can help you quickly find and download current Safeguards & Security requirements, their associated national policies, and link directly to the official standards and policy documents. If you need help on creating a specific report or query please submit a question through Contact Us.

DOE Enterprise Assessments (EA)

Calendar Year 2023 LNPT and MTA Assessment Schedule

Example lines of inquiry (LOI) that can be used as reference points in conducting S&S self-assessments or preparing for a survey are provided here.

EA periodic reports provides a mechanism for routinely sharing S&S lessons learned with Federal and contractor stakeholders. Analysis of the data generated by these activities is aimed at identifying (1) emerging trends and (2) notable single occurrences.

- (OUO) EA-20 January – October 2022
- (OUO) EA-20 March 2021 – January 2022
- (OUO) EA-20 January 2020-March 2021
- (OUO) EA-20 April 2019 – December 2019
- (OUO) EA-22 September 2018 – March 2019
- (OUO) EA-22 March 2018 – August 2018
- (OUO) EA-22 August 2017 – February 2018

General S&S Information

CUI Technical Bulletin: In April 2023, NNSA published a technical bulletin that provides key information and guidance on how to identify and mark CUI now that CUI implementation has begun across the NNSA Enterprise. Read the bulletin here.

Export Compliance Assistance Program (ECAP).

ECAP provides export compliance training, assistance, and tools to raise awareness and promote export compliance across the DOE/NNSA complex.

Intelligence Related Publications:

Annual Threat Assessment of the U.S. Intelligence Community, February 6, 2023

National Security Agency Media Destruction Guidance

National Academies and the Department of Homeland Security IED Fact Sheet

S&S Policy Information Resource (PIR) Tool

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DOE Office of Inspector General (IG) Reports

- The Federal Energy Regulatory Commission's Unclassified Cybersecurity Program – 2022 (DOE-IG-23-11) December 2022
- Property Management at the Hanford Site (DOE-OIG-22-20) January 2022

Government Accountability Office (GAO) Reports

- Overseas Nuclear Material Security: A Comprehensive National Strategy Could Help Address Risks of Theft and Sabotage (GAO-23-106486) (Mar 30, 2023)
- Capitol Attack: Federal Agencies Identified Some Threats, but Did Not Fully Process and Share Information Prior to January 6, 2021 (GAO-23-106625) (Feb 28, 2023)
- Cybersecurity High-Risk Series: Challenges in Protecting Privacy and Sensitive Data (GAO-23-106443) (Feb 14, 2023)

Previously Issued Reports

Collaboration Tools

The increase in telework has placed a new emphasis on collaboration tools. In an effort to embrace the new work environment and ensure sensitive information remains secure, the Updated Approved Collaboration Tools Memo – April 7, 2021, Memo on Updated Approved Collaboration Tools and NA GC Video Recording Determination Signed are provided for your convenience.

Support

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Home » Contact Us

Contact Us

What kind of message would you like to send? *

Please select

- Please select
- I have a question
- I have a suggestion
- NA-70 Security Analysis Cell (SAC) Threat Information Survey
- Request Federal SMIP Field Augmentation (FAC) Support
- Submit a Lessons Learned or Best Practice
- S&S Security Topics Feedback
- I have a TEMPEST Question
- I have a Technical Surveillance Countermeasures Question
- I have a Technical Security Question (MEDPEDs, Audio Security, Telephone Security, etc.)

Choose File No file chosen

Max. file size: 10 MB.

Email *

Submit

Home » SME Profiles

SME Profiles

The SME Profile page is a starting point for locating subject matter experts in the NNSA safeguards and security program community. The database contains approved profiles of fellow users who have provided their contact information along with standardized keyword descriptors and CV/resume.

To submit your own SME profile, click the "Create/Update SME Profile" button and fill out the following form along with your CV/resume in plain text format. New profiles will be available and appear in the directory once processed through the system.

Browse SME profiles below or search for SMEs using our standardized keywords.

Create/Update SME Profile

National Nuclear Security Administration

Lessons Learned & Best Practices

- **Lesson Learned:** Knowledge gained from a good practice or an undesirable occurrence that is captured and shared.

- **Best Practice:** a method or technique generally accepted as superior because it produces superior results than other means or because it has become a standard way of doing things.

> *Those who do not learn from history are condemned to repeat it.*
>
> George Santayana

Benefits of Lessons Learned & Best Practices

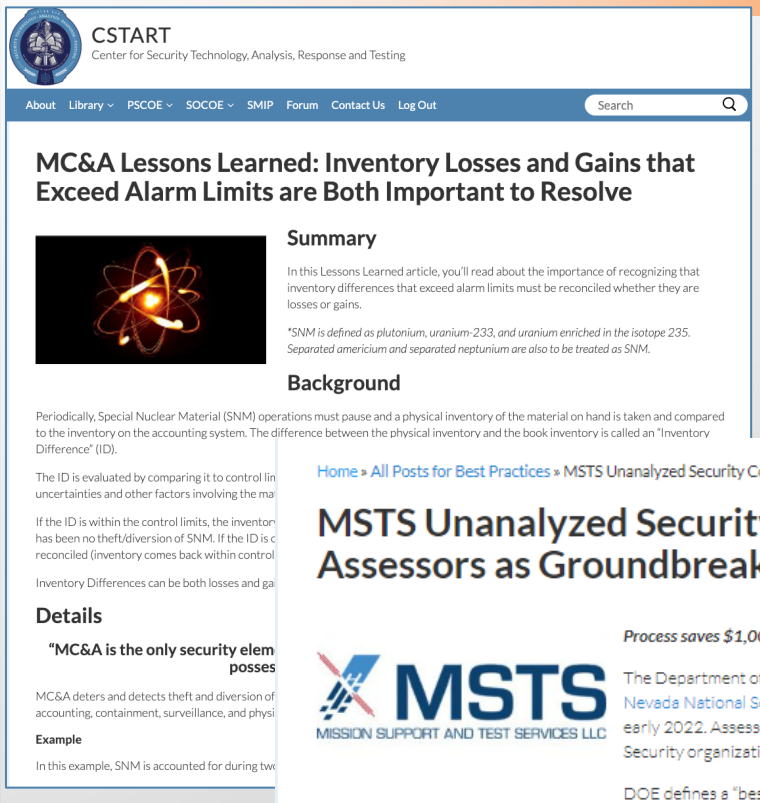
- Facilitate sharing of good practices
- Prevent future adverse incidents
- Highlight strengths that others can use to prevent a disaster
- Identify areas that may need engagement or improvement
- Improve the effectiveness of nuclear security operations
- Support a continuously improving nuclear security program

Finding Best Practices & Lessons Learned

- Best practices and lessons learned can come from anyone in the organization
- Finding and sharing a best practice or lesson learned is an excellent way to contribute to the security community
- Places to look for security lessons learned:
  - Incidents of Security Concern (IOSC) programs
  - Classification programs
  - Insider threat programs
  - Protective Force personnel
  - Professionals from personnel security, information security, and security awareness
  - ...and more!
- Keeping your eye out around the organization can help to identify key lessons learned and best practices that can add value across the nuclear security enterprise

Partner with us!

- Summary
  - Who, what, when, where, why, and how
- Details
  - More information
- Lessons learned
  - What went well?
  - What didn't go well?
  - What would you change?
- Can be ideas, drafts, or finished articles
- Questions? Contact us!



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MC&A Lessons Learned: Inventory Losses and Gains that Exceed Alarm Limits are Both Important to Resolve

Summary

In this Lessons Learned article, you'll read about the importance of recognizing that inventory differences that exceed alarm limits must be reconciled whether they are losses or gains.

**SNM is defined as plutonium, uranium-233, and uranium enriched in the isotope 235. Separated americium and separated neptunium are also to be treated as SNM.*

Background

Periodically, Special Nuclear Material (SNM) operations must pause and a physical inventory of the material on hand is taken and compared to the inventory on the accounting system. The difference between the physical inventory and the book inventory is called an "Inventory Difference" (ID).

The ID is evaluated by comparing it to control lin
uncertainties and other factors involving the ma

If the ID is within the control limits, the inventor
has been no theft/diversion of SNM. If the ID is c
reconciled (inventory comes back within control

Inventory Differences can be both losses and ga

Details

**"MC&A is the only security elem
posses**

MC&A deters and detects theft and diversion of
accounting, containment, surveillance, and physi

Example

In this example, SNM is accounted for during tw

Home » All Posts for Best Practices » MSTS Unanalyzed Security Conditions Process Heralded by Assessors as Groundbreaking Best Practice

MSTS Unanalyzed Security Conditions Process Heralded by Assessors as Groundbreaking Best Practice

MSTS
MISSION SUPPORT AND TEST SERVICES LLC

Process saves $1,000,000 per year due to increased efficiencies

The Department of Energy (DOE) Enterprise Assessment (EA)[1] conducted a Site Survey of Nevada National Security Site (NNSS) contractor Mission Support and Test Services (MSTS) in early 2022. Assessors noted three best practices implemented by the contractor's Safeguards & Security organization.

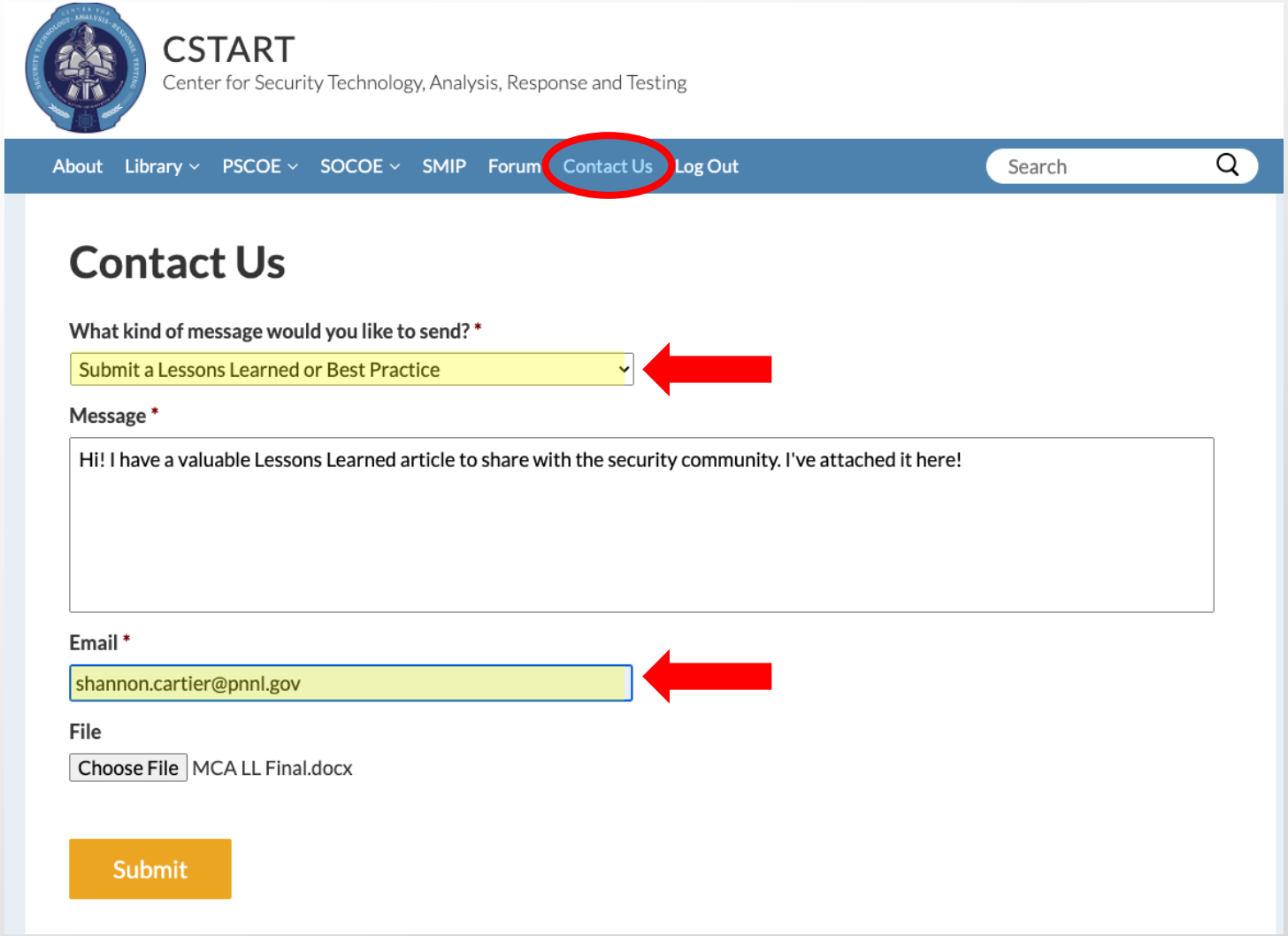
DOE defines a "best practice" as a positive example of work processes with the potential to be the basis for significant operational improvements or cost savings.

This article details the following best practice:

MSTS implements an Unanalyzed Security Conditions process that allows Nevada Enterprise to provide effective, efficient, and timely security planning and analysis to operations, projects, and facilities.

Please read the full article here.

Submit a Lessons Learned or Best Practice



Points of Contact

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SOCOE

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Thank you!