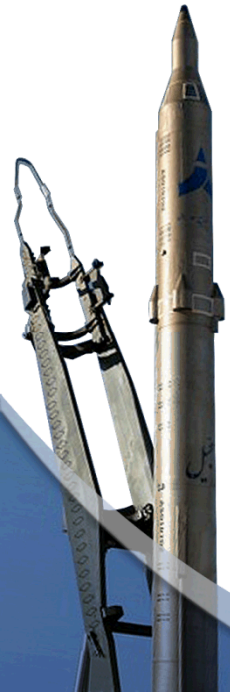




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# Overview of the Nuclear Security Center of Excellence (NSCOE) at Sandia National Laboratories



Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000.





# Opportunity

Sandia has a unique opportunity to engage with our partners and customers through our Nuclear Security Center of Excellence (NSCOE).

The Center will provide a venue for Physical Protection System Demonstration, Training, Testing, and Evaluation.



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# NSCOE Vision, Mission, and Location

## Vision

- The National Nuclear Security Center of Excellence (NSCOE) serves as a model for engagement internationally and domestically on nuclear security issues

## Mission

- The Center integrates Sandia program foundations to address security challenges for physical protection systems, nuclear material management, and nuclear security

## Location

- The NSCOE will integrate existing facilities and capabilities located across Sandia with a primary focus on the existing security systems in Tech Area V (TA-V)



# So What Are We Proposing?

- Use existing capabilities across Sandia and within TA-V demonstrate all aspects of high security physical protection systems
- These facilities will be used for demonstration and training of physical protection systems for and internationaldomestic customers



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# TA-V Contains Elements of An Entire Physical Security System



**Perimeter Intrusion Detection  
& Assessment System  
(PIDAS)**



**Entry Control Portal (ECP)**



**Central Alarm Station  
(CAS)**



TA-V is Strategically Located Near Other Security Facilities



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# NSCOE Objectives

- Address security challenges in areas of physical protection, nuclear material management and nuclear security
- Address the need for detailed, system-level hands-on physical protection system demonstration, training, and operations



# Result

- NSCOE provides international and domestic users the opportunity to participate in active Physical Protection System training, including design, installation, operation, maintenance, and test and repair from the component level up through complete systems



# Project Execution

- Effort's initial two phases are focused on physical protection systems training, operations, and demonstration
  - **Phase I**
    - ◆ Reconstitution of multiple sectors of the PIDAS and installation of a new Alarm, Control and Display system
    - ◆ Modification of our training curriculum to integrate our courses with the NSCOE facilities
  - **Phase II**
    - ◆ Reconstitution of the access control system, contraband detection, and delay barriers in the Entry Control Portal



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# Questions?