

# emergent™

Cyber Security Consulting Solutions

## NRC Client Spotlight

Congress created the **U.S. Nuclear Regulatory Commission (NRC)**, as an independent agency in 1974 to enable the nation to safely use radioactive materials for beneficial civilian purposes while ensuring that people and the environment are protected. The NRC regulates commercial nuclear power plants and other uses of nuclear materials, such as in nuclear medicine, through licensing, inspection and enforcement of its requirements.

### Challenge

- NRC required a mechanism for securing digital information on a variety of externally facing systems and applications.
- NRC required a means to meet Homeland Security Presidential Directive 12 (HSPD-12) mandates for its employees and contractors.
- NRC required a system to digitally authenticate existing and prospective licensees for their National Source Tracking System (NSTS), which tracks radioactive sources.

### Solution

- Emergent Consulting designed and implemented an application and system agnostic credentialing system supporting Rudimentary, Basic, and Medium Assurance Level certificates.
- The team created a fully functional and compliant HSPD-12 system that could be integrated into the Physical and Logical Access Control Systems (PACS and LACS respectively) and identity proofing system through the Office of Personnel Management (OPM) to support all employees and internal contractors.
- Architected a NSTS tracking system that integrated identity proofing, fulfillment, authentication, and access management for licensees and applicants using smart cards and Medium Assurance Level certificates.

### Results

- Application and system owners have the capability to integrate the Assurance Level certificates of their choice into their systems and infrastructure efficiently without a concerted customization effort.
- The HSPD-12 system went live on schedule and has issued 6000 Personal Identity Verification (PIV) cards utilized for Physical and Logical access to NRC facility and systems.
- The NSTS system continues to accept applications from prospective licensees and is utilized for licensee communications to the NRC.



The U.S. Nuclear  
Regulatory Commission

[www.nrc.gov](http://www.nrc.gov)

Industry: Federal Government

### Products and Services

- Card Management System
- Emergent Consulting
- Middleware
- Public Key Infrastructure
- Smart Cards
- HSPD-12 management
- PIV
- PIV-I

### Contact

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