

OFFICE OF INTERNATIONAL NUCLEAR SECURITY (NA-211)



INS
International Nuclear Security
Reducing Risk of Nuclear Terrorism

INTERNATIONAL NUCLEAR SECURITY (INS)

For more than 20 years, INS has leveraged the Department of Energy and its national laboratories' nuclear security expertise to bring the technical solutions needed for mitigating risks of terrorists or other non-state actors acquiring nuclear material.

INS is evolving along with today's threats and risks. While highly enriched uranium and weapons-grade plutonium remain a top priority, INS is also concerned with other high-risk materials and the threat of attacks on facilities that could adversely impact U.S. national security.

INS VISION

A world in which effective nuclear security prevents nuclear theft, sabotage, and terrorism.

INS MISSION

Lead US and international efforts to prevent theft and sabotage of nuclear materials and facilities worldwide.

INS works with partners across the globe to secure:



**Weapons-usable
nuclear materials**



**Nuclear Power
Plants and Fuel
Cycle Facilities**



**Research
Reactors**



**Materials
in Transit**

Across these areas, INS applies a systematic approach based on threat and vulnerability assessments to reduce risk.

INS engages with over **50** partner nations around the world through assessments, technical exchanges, trainings, facility upgrades, regulatory development, and other assistance to strengthen the most critical components of their nuclear security architecture:

- **National Level Infrastructure** — improving nuclear security frameworks worldwide
- **Physical Protection** — preventing adversary attempts of sabotage and theft by providing assessments, improvements, and sustainment
- **Nuclear Material Accounting and Control** — helping partners ensure that nuclear material is present and accounted for
- **Transport Security** — securing nuclear materials in transit

- **Response** — helping partners outpace the nuclear adversary through training and continuous improvement
- **Cyber Security** — anticipating the cyber component of theft and sabotage
- **Insider Threat Mitigation** — stopping the enablers of nuclear theft and sabotage
- **Sabotage Mitigation** — reducing vulnerabilities to prevent nuclear sabotage
- **Performance Evaluation** — continuously improving operational security

INS also helping partners adapt and implement security solutions to address **emerging technologies** such as unmanned aerial systems (UAS), advanced nuclear reactors, artificial intelligence (AI), robotics, and 5G communication networks.