PANEL DISCUSSION: INFCIRC 908
“INSIDER THREAT MITIGATION”

EXPERIENCE OF THE KINGDOM OF MOROCCO

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Introduction

• 1 Nuclear research reactor
• Medical applications
  • 1 Gamma knife (+1 in project);
  • 17 Brachytherapy units (HDR) (+1 in project);
• Industrial Applications
  • 13 NDT compagnies;
  • >300 Gauges;
• Agriculture (1 industrial irradiator + 1 in project)
• Education & research;
Experience (Commitments to INFCIRC 908)

Regulatory Framework

The national regulatory body AMSSNuR has recently prepared two draft decrees on Physical Protection of Nuclear Material and Security of Radioactive Sources that address the following points related to the mitigation of insider threat:

- Responsibilities of the operator
- Physical protection
- Security Culture
- Information security
- Trustworthiness of authorized persons
- Qualification and training
- Access control
- Transfer
- Sources inventory
- NMAC
Experience (Commitments to INFCIRC 908)

Implementing Guide (HRP)

In accordance with the draft regulations on nuclear security:

• The licensee shall establish and implement, subject to the approval of the national regulatory body (AMSSNuR), a programme to ensure the reliability of persons, for the purpose of granting access to sensitive information, nuclear and other radioactive material or related facilities.

• The AMSSNuR initiated the project of the Human Reliability Program (HRP) implementation guide in December 2017.

• This guide establishes policies and procedures for the implementation of the HRP in facilities and activities involving nuclear and radioactive materials to ensure that people with access to certain materials, facilities and information meet the highest standards of reliability, trustworthiness and physical and mental fitness.

➢ The guide was elaborated with the assistance of PNS
Experience (Commitments to INFCIRC 908)

Training

Several trainings were organized at the national and regional level during 2017-2018:
• Regional Course on Nuclear security Culture in Practice: September 2017;
• National Workshop on Preventive and Protective Measures against Internal Threats to Nuclear Material: October 2017
• National workshop on Human reliability: December 2017;
• National workshop on define basis threat: January 2018;
• National workshop “From Nuclear Security Awareness to a Robust Culture”: March 2018;
• Regional workshop on Human reliability: October 2018;
• Working meeting on Sustainability of nuclear security culture;
Experience (Commitments to INFCIRC 908)

Implementing an HRP at CNESTEN

• Absence of specific regulation related to HRP
• CNESTEN License required to take every action to secure its activities and facilities,
• CNESTEN take advantage of bilateral cooperation with PNS to establish and implement its HRP,
• Launched in 2016,
• 3 years of preparation,
• Supervised by an executive committee appointed
Experience (Commitments to INFCIRC 908)

Implementing an HRP at CNESTEN

• The HRP involves three components
  1. Manager review
  2. Medical assessment
  3. Security evaluation

• Each component is completed for initial certification and then periodically for recertification

• Executive Committee (EC) makes recommendation to Director General (DG)

• DG makes final decision on certification
Challenges

• Implementing an HRP programme could be a challenge because of lack of dedicated legal framework or cultural issues especially:
  • Performing background check for employees subject to HRP programme;
  • Psychological testing;
  • Drug and alcohol testing;
  • Reporting aberrant behavior.
Next Steps

• Issuing of the draft decrees submitted to the government for approval.
• Issuing of the implementation guides of HRP and site security plan.
• Organizing first national workshop with licensees, to present and explain the HRP and site security plan implementation guides.
• Training of inspectors on HRP inspections.
• Finalizing the draft Decree on the Physical Protection currently under development.
• Considering the development of a nuclear security culture, information security and transport security plan implementation guides.
Upcoming event

Insider Threat Mitigation Regional Workshop
June 24-28, 2019, Rabat, Morocco

• The purpose of the workshop is to support the 2016 Joint Statement on Mitigating Insider Threats (INFCIRC/908) and develop and foster an integrated insider threat mitigation strategy for the nuclear security domain.

• Target audience: Representatives from north African region from:
  • National organizations with nuclear security responsibilities;
  • Operators; and
  • Law enforcements
Thank you