



INSIDER THREAT MITIGATION

12 - 14 MARCH 2019
BRUSSELS BELGIUM

PANEL DISCUSSION: INFCIRC 908 “INSIDER THREAT MITIGATION”

EXPERIENCE OF THE KINGDOM OF MOROCCO

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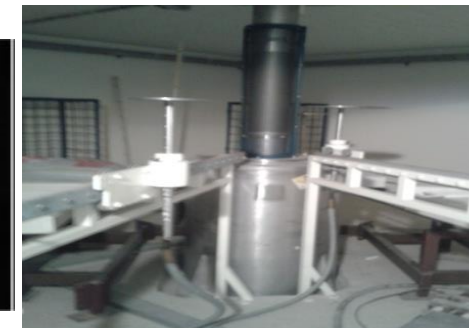
Moroccan Agency for Nuclear and Radiological Safety and
Security (AMSSNuR)

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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 companies;
 - >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;



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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



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Thank you

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