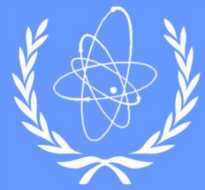




# Regulatory Supervision of Research Reactors

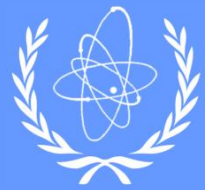
Research Reactor Safety Section  
Division of Nuclear Installation Safety  
IAEA

13<sup>th</sup> GNSSN Steering Committee Meeting  
IAEA, VIC  
08 November 2018



# Outline

- Introduction
- IAEA Support of Regulatory Supervision
- Recent IAEA Activities
- Concluding Remarks



# Introduction

- The feedback from the IAEA's activities on research reactor safety has shown that there is a need in many Member States to enhance the regulatory supervision of research reactors.
- IAEA activities on enhancing regulatory supervision of research reactors have been performed with support of the GNSSN in the frame of ANNuR projects.



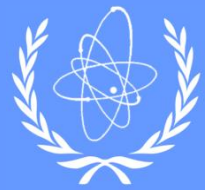
# IAEA Support of Regulatory Supervision for Research Reactors

- *Developed training material on regulatory inspection of research reactors*
- *Workshops on regulatory inspection of research reactors with simulated inspections*
- *Developed a regulatory inspection programme and the associated procedures for the Morocco regulator*
- *Developing a regulatory inspection programme and the associated procedures for the Jordan regulator*
- *Workshops on regulatory review and assessment*
- *Workshops on systematic assessment of regulatory competence and training needs*



# Showcasing an Inspection Programme

- The IAEA supported development of the inspection programme and the associated procedures for **the Morocco regulator** using IAEA safety standards including,
  - *Regulatory authority*
  - *Organization for inspection*
  - *Types of regulatory inspection*
  - *Inspection frequency*
  - *Areas and programmes to be inspected*
  - *Conduct of inspections*
  - *Enforcement policy*



# Training Material

- To help develop a regulatory inspection programme for research reactors, and also to help training inspectors to enhance regulatory supervision
- The training material on regulatory inspection of research reactors is comprehensive and covers **all topics** relevant to **all phases of the life cycle** of the research reactor facility:
  - *IAEA safety standards relevant to inspection;*
  - *Regulatory inspection programme;*
  - *Inspection topics;*
  - *Practical exercises.*



# Training Material

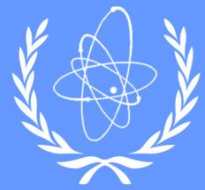
- Over the past few years, draft training material on regulatory inspection of research reactors has been used in several workshops under the ANNuR, FNRBA and ANSN activities including in Egypt, Ghana, Malaysia, South Africa, and Australia.
- AAEA/ANNuR/FNRBA workshop, Rabat, Morocco, 12-16 November 2018.
- Feedback from participating Member States has been used to improve this training material.



# Training Material

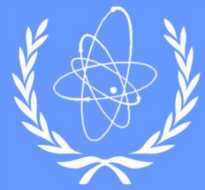
- The training material will be posted in the IAEA GNSSN webpage:
  - *Regulatory Inspection of Research Reactors, IAEA-TCS-66/CD, 2018*
  - *Safety of Research Reactors, IAEA-TCS-64/CD, 2016*
  - *Operational Radiation Protection and Radioactive Waste Management for Research Reactors, IAEA-TCS-62/CD, 2016*





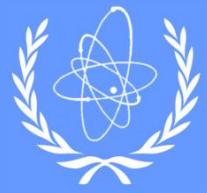
## Concluding Remarks

- The IAEA continued support of Member States on enhancing regulatory supervision, in the areas of regulatory review and assessment, regulatory inspection, training of regulatory staff.
- A training material on regulatory inspection of research reactors will be published in the IAEA GNSSN website in 2018, and used to support developing a regulatory inspection programme for research reactors and also for training inspectors of Member States.



## Activities under GNSSN (2018)

- ANNuR/FNRBA/AAEA Annual Meeting on Safety and Licensing in Ghana during 08-12 October 2018
- ANNuR/FNRBA/AAEA Workshop on Regulatory Inspection Programme in Morocco during 12-16 November 2018



**Thank you for your attention!**