

The Management of the Interface between Safety and Nuclear Security in the United Arab Emirates



Raoul Awad

Deputy Director General for Operations

Federal Authority | هيئة اتحادية

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Outline

The UAE Commitment

The Federal Authority for Nuclear Regulation

The Operator of Barakah Nuclear Power Plant

Conclusion



The UAE Commitment

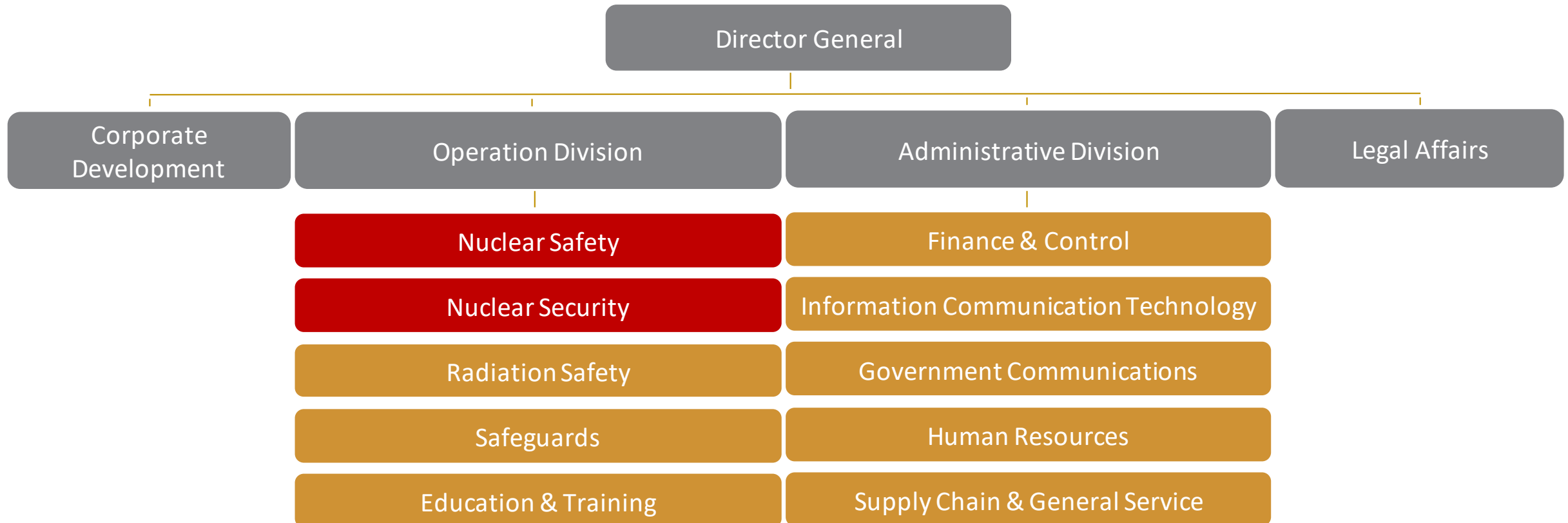
The Federal Law by Decree No 6 of 2009 concerning Peaceful Uses of Nuclear Energy Law establishes Federal Authority for Nuclear Regulation (FANR)

- Legal framework for Safety, Security, Safeguards in the Nuclear Sector, which includes nuclear facilities and regulated material (radioactive material / radiation generators / nuclear material / trigger list Items and nuclear related dual-use items).
- Establishes FANR as the authority responsible for regulation of the nuclear sector in the UAE.



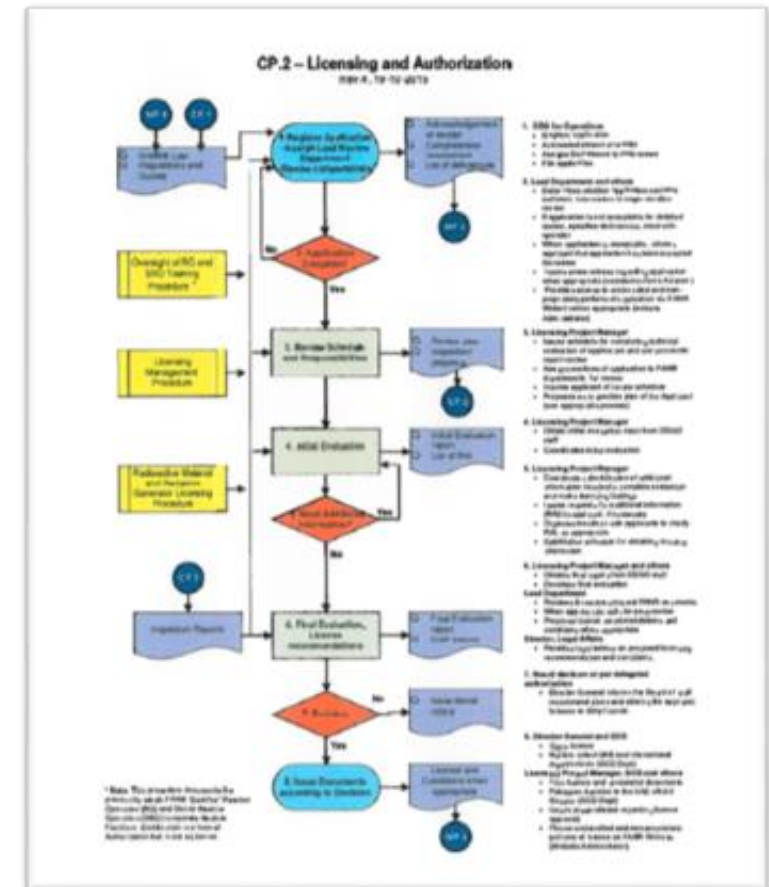
The Federal Authority for Nuclear Regulation

Integrated approach for Safety and Security



The Federal Authority for Nuclear Regulation

- The development of Regulations and Regulatory Guides is reviewed both by safety and nuclear security teams to ensure their consistency
- Licensing processes for regulated activities (radioactive materials and Nuclear Power Plant) are the same for safety/radiation protection and security to obtain one license for one activity
- *Safety and Security Cultures done for inspector training in a same session*



The Operator of Barakah Nuclear Power Plant (BNPP)

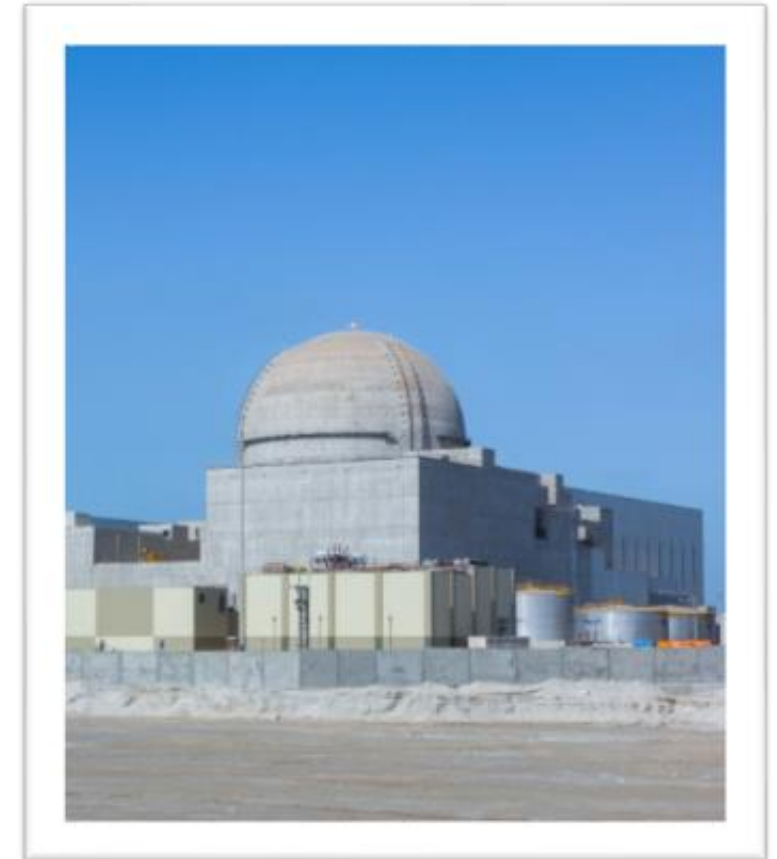
To comply with regulations

- for Management Systems for Nuclear Facilities [FANR-REG-01], Article 4(5): *“Ensuring that security measures balance any conflicting objectives of Safety, Operations, and security. Safety and security shall be considered together, such that one does not compromise the other. Potential conflicting requirements should be carefully analysed to ensure that they do not jeopardise Nuclear Safety”*
- for Physical Protection of Nuclear Material and Nuclear Facilities [FANR-REG-08], Article 9(1): *“The Licensee shall ensure that the Physical Protection System balances any conflicting objectives of Safety, Operation and Physical Protection... Potential conflicting requirements resulting from Safety and Physical Protection considerations shall be carefully analyzed to ensure that they do not jeopardize Nuclear Safety”*

The Operator of Barakah Nuclear Power Plant (BNPP)

Implement the procedure SNS-PRC-111-27, “BNPP Safety and Security Interface Implementing Procedure”

- This procedure Took into account:
 - INSAG-24: The Interface between Safety and Security at Nuclear Power Plants
 - U.S. Nuclear Regulatory Commission (NRC), Regulatory Guide 5.74 (RG 5.74) / June 2009; Managing the Safety/Security Interface
- Screened any activities from the design, construction and operation



The Operator of Barakah Nuclear Power Plant (BNPP)

The procedure SNS-PRC-111-27:

- Provide the requirements to assess planned and emergent changes and activities to identify any potential adverse impacts on safety and security
- Manage adverse impacts to preclude compromise of plant safety and the Physical Protection Plan
- Accomplished through communicating proposed changes to appropriate personnel knowledgeable for assessment and management

E.g. Marine barrier screened for safety before building it inside the intake channel



Thank you

