



FANR in a Changing Landscape



BNPP Update





Barakah Unit 1

Barakah Unit 2

Barakah Unit 3

Barakah Unit 4

Commercial Operation
April 2021

Commercial Operation
March 2022

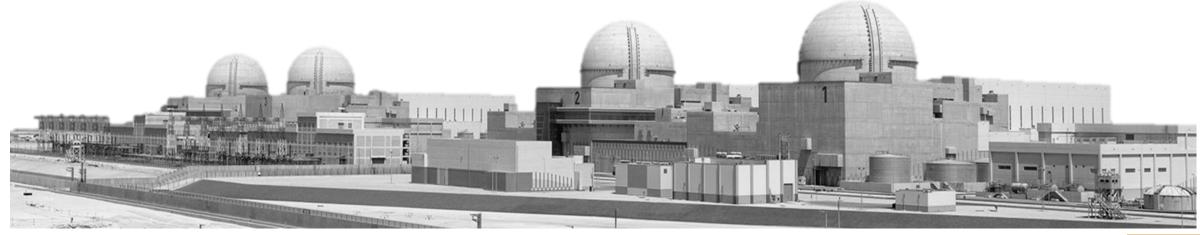
Commercial Operations Feb 2023 1st Criticality achieved on 1st Mar 2024. Continuing Power Ascension Tests

3rd Refuelling Outage Planned in Q2 2025

2nd Refuelling Outage Planned in Q4 2024

1st Refuelling outage planned in Q1 2024

Commercial Operations is expected in 2024



FANR Workforce















2024 Year of Safety Culture





NEA WG Leadership & Safety Culture FANR's active participation at Nuclear Energy Agency WG on Leadership and Safety Culture

FANR's Safety Culture WG Launch of FANR Safety Culture Working Group in 2023

September 2023

FANR Hosts IAEA Workshop on Safety Culture in the Nuclear Sector

November 2023

FANR announced that 2024 will be the "Year of the SAFETY CULTURE" at FANR



2024 Year of Safety Culture





BARAKAH OVERSIGHT ACTIVITIES FOCUSING ON SAFETY CULTURE



In 2024, FANR Oversight
Inspection Activities will
incorporate Safety Culture
as element in the scope of all
planned inspections of
Barakah NPP in 2024.



FANR's Program Inspection on Nawah's IMS included a stand-alone Scope on Safety Culture. Which also include interviews with Nawah Site Senior VPs and VPs to assess the maturity of the operator's safety culture.



Inspectors will conduct random verification activities at Barakah NPP site, in the area of safety culture including unannounced site walk-downs and discussions with plant personnel.

COP 28







• 22 countries, including UAE, launch Declaration to triple nuclear energy capacity by 2050



- FANR in coordination with IAEA hosted a session titled "Climate Change Challenges to the Safety of Nuclear Installations"
- FANR officially announced its transformational project Integrated Operational Nuclear Safety (IONS)

Call for Action





• The 6th IAEA International Conference on Effective Nuclear and Radiological Systems was hosted in **Abu Dhabi** from **13-16 Feb 2023**. More than **600** participants from **95** IAEA Member States and four international organizations have gathered to exchange best regulatory practices

Leadership:

invest in people skills and capabilities, develop next generation, be brave and intentional:



Organizational Readiness and Agility:

proactive development
of frameworks, adaptive
management,
environmental scans
(market, national
policies, natural hazards)
for course adjustment



Trust:

Demonstrate competence, openness, and impartiality



Collaboration and capacity building:

joint reviews
(harmonization), regionfocused capacity
building, best practices:

FANR Growth





Phase 1:Look into FANR's readiness with respect to any future government plans for the expansion of the UAE Nuclear Power Plants (Large NPP).

Phase 2: Consider New Advanced Nuclear Reactor Technologies



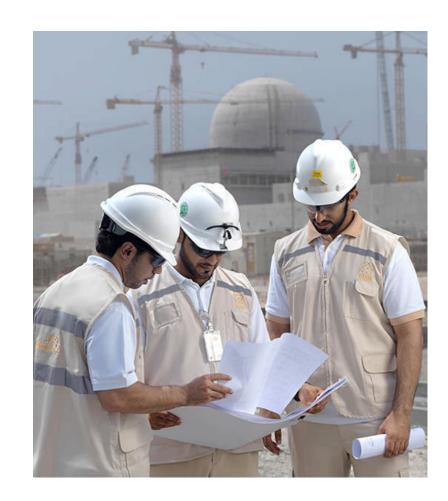
- 1. Assess the applicability of FANR regulatory framework for review and assessment of different technologies
- 2. The need for revising or updating existing regulatory framework, processes, procedures, and identify any gaps in relation to the use of different technologies based on country of origin.
- 3. Provide a preliminary PSAR chapters categorization in association with different technologies.
- 4. Assess the need for early vendor inspections. especially for long lead items.
- 5. Evaluate if there is a need for organization structure and identify the resources needed.
- 6. Assess the training needs.
- 7. Evaluate the Legal Engagement.
- 8. Assess the current and future national and international cooperation

Regulatory Changing Landscape مثة الاتحادية للرقابة النووية Federal Authority for Nuclear Regul





- I. Leveraging the resources of the country-of-origin regulatory bodies during the review of the construction license application.
- II. The big contrast between being a regulator regulating operating power plants and a regulator in the licensing phase.
- III. The actioning the recommendations from the Reg-Conf Held in Abu Dhabi Feb 2023.
- IV. The Adherence to the highest standards of safety, security and non-proliferation echoed under the declaration of tripling nuclear energy by 2050.
- V. The need for the international community to prepare for the tripling initiative in terms of capacity and skills.







THANK YOU