

Licence No: FANR/NF/2022/002

**Licence for the Conduct of Certain Regulated Activities at the
Barakah Nuclear Power Plant Unit Four**

Under the powers provided in Articles (5), (6) and (28)(3)(a) of the Federal Law by Decree No. 6 of 2009 Concerning the Peaceful Uses of Nuclear Energy (the Law), and having considered that the proposed activities of Nawah Energy Company P.J.S.C. comply with the requirements of the Law and applicable regulations of the Federal Authority for Nuclear Regulation (the Authority), the Authority hereby grants a licence for the possession, handling, and storage of nuclear material directly associated with Unit 4 of the Barakah Nuclear Power Plant (Barakah NPP Unit 4) (the Licence) to:

Nawah Energy Company P.J.S.C. (the Licensee)

being a private joint stock company established in Abu Dhabi (industrial licence No.: IN-2003241).

This Licence authorises the Licensee to conduct the following Regulated Activities set forth in Article (25) of the Law:

possession, handling and storage of nuclear material

and related Regulated Activities listed in Section 1 of Schedule 1 of this Licence.

The Licence conditions are set forth in Schedule 2. The description of the fuel handling and storage activities, structures, systems, and components at the Barakah NPP Unit 4 is provided in the Licence application documents referenced in Schedule 3 (Application Documents). Schedule 4 provides for interpretation of certain terms used in this Licence.

This Licence shall remain in force until:

- it is suspended or revoked by the Authority;
- it is amended by the Authority;
- it is surrendered by the Licensee, subject to acceptance by the Authority; or
- the Authority issues a Licence for the Operation of the Barakah NPP Unit 4.

This Licence is granted without prejudice to any future decision by the Authority regarding the possession, handling and storage of nuclear material associated with the Barakah NPP Unit 4.

Abdulla Al Suwaidi

Chairman of the Board of Management of the Federal Authority for Nuclear Regulation

Issued in Abu Dhabi
13 December 2022



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The Licence comprises this page, the preceding page and the following schedules, which together form an integral part of the Licence:

Schedule 1: (1 page) Regulated Activities Authorised

Schedule 2: (3 pages) Licence Conditions

Schedule 3: (1 page) Application Documents

Schedule 4: (1 page) Interpretation

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Schedule 1

Regulated Activities Authorised

1. This Licence authorises:
 - a) possession, handling and storage of nuclear material at the Barakah NPP Unit 4 located in Al Dhafra region of the Emirate of Abu Dhabi, United Arab Emirates, as described in the Application Documents.
 - b) import and re-export of unirradiated Nuclear Fuel directly associated with the Barakah NPP Unit 4.
2. The Licensee is required to obtain all necessary Licence(s) from the Authority for the conduct of any other Regulated Activity.
3. The Licensee shall obtain all necessary licences, permits and authorisations from other government entities for the conduct of any Regulated Activities authorised by the Authority under this Licence and update the Authority on any change relating to the aforementioned licences, permits and authorisations.

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Schedule 2

Licence Conditions

This Licence is subject to and the Licensee shall comply with the Licence conditions specified and incorporated below:

1. Law, Regulations, Licence and the Licensee's Submissions:

The Licensee shall conduct the Regulated Activities authorised by this Licence in accordance with:

- The Law, and any amendment thereto;
- The Federal Law by Decree No. 4 of 2012 Concerning Civil Liability for Nuclear Damage (the Nuclear Liability Law), and any amendment thereto;
- The applicable regulations issued by the Authority pursuant to the Law and the Nuclear Liability Law;
- The terms and conditions of this Licence; and
- The Application Documents including documents referenced therein and/or submitted with the application for this Licence and additional information submitted by the Licensee.

2. Safeguards Obligations:

- The Licensee shall maintain up-to-date, complete and correct design information in the format of a design information questionnaire (DIQ) for the Barakah NPP Unit 4 and in the level of details specified by the Authority that reflects the "as built" design of the Barakah NPP Unit 4. The Licensee shall submit the DIQs to the Authority in accordance with the requirements for the provision of design information included in the applicable regulations (the Submitted DIQs). Any changes requested by the Authority to the Submitted DIQ shall be completed by the Licensee and submitted to the Authority within twenty (20) working days.
- The Licensee shall conduct the Regulated Activities authorised by this Licence, including but not limited to the category, quantity and purpose of use of nuclear material, involved in the conduct of such Regulated Activities, in a manner consistent with the relevant Submitted DIQ.
- The Licensee shall conduct the Regulated Activities authorised by this Licence in accordance with the Licensee's procedures for physical inventory taking and nuclear material accountancy and control that have been approved in writing by the Authority (the Approved Safeguards Procedures).
- The Licensee shall notify the Authority in writing about any changes in the Approved Safeguards Procedures. Any changes proposed by the Licensee to the Approved Safeguards Procedures, which may affect the application of the safeguards obligations, the physical inventory taking of nuclear material or the nuclear material accountancy and control at the Barakah NPP Unit 4 shall be approved by the Authority in writing prior to their implementation by the Licensee.

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3. Transfer of Licence:

This Licence, any part hereof, or any right hereunder shall not be transferred or assigned, either voluntarily or involuntarily, directly or indirectly, through any transfer of control of this Licence or transfer of control of the Licensee to any Person.

4. Modifications:

The Licensee shall:

- Obtain written approval of the Authority prior to implementing modifications that may result in significant implications for Safety or safeguards. In evaluating the significance of the modification, the Licensee shall use the guidance provided by the Authority.
- Obtain written approval of the Authority prior to implementing changes to the Physical Protection plan in accordance with the relevant regulations issued by the Authority.
- Keep records of all modifications, analyses and evaluations either in support of approval of requests in accordance with Licence Condition 4(a) or in support of conclusions that the modifications did not require approval of the Authority.

5. Plan of activities:

The Licensee shall provide the Authority, within thirty (30) days of the granting of this Licence, schedules and timelines of the activities to be carried out under the Licence. The Licensee shall update and provide the said schedules and timelines as may be deemed necessary by the Authority.

6. Event Reporting:

a) Prompt Notification

- The Licensee shall notify the Authority within four (4) hours of discovery of a Nuclear Security event in accordance with the guidance provided by the Authority
- The Licensee shall notify the Authority within twelve (12) hours of discovery by the Licensee of:
 - any violation of the conditions of this Licence;
 - any Accident or event having occurred during the conduct of the Regulated Activities authorised by this Licence that affects or has the potential to affect and have implications for Safety or safeguards;
 - any incident or circumstances leading the Licensee to believe there is or there may have been a loss or loss of control of nuclear material;
 - any event that prevents the ability of the International Atomic Energy Agency or the Authority's ability to verify nuclear material involved in the Regulated Activities authorised by this Licence;
 - any incident or circumstances leading the Licensee to believe there is or there may have been an interference in the operation of safeguards containment or surveillance device or other equipment, including data transmission equipment, installed at the Barakah NPP Unit 4.

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b) Follow up Reporting

- i. For the prompt notifications required by Licence Conditions 6(a), the Licensee shall submit to the Authority an initial report within forty-eight (48) hours of discovery of the event, which shall include, inter alia, the date, description and circumstances of the reported event.
- ii. Unless specified otherwise by the Authority or in the relevant regulations, the Licensee shall submit to the Authority a final report within sixty (60) days of each prompt notification referred to in Licence Condition 6(a) above.

7. Access to Facilities and Documents, and Assistance:

The Licensee shall provide the Authority and its authorised representatives with access to any place, to any document, record or report or to any person under the Licensee's control or the control of any of the Licensee's affiliates, contractors, subcontractors, suppliers, agents or other legal entities acting on behalf of the Licensee, and shall provide all assistance necessary to enable the Authority to inspect in accordance with the Law the conduct of the Regulated Activities authorised by this Licence.

8. Records:

The Licensee shall develop, maintain and implement arrangements for making and retaining adequate and detailed records of compliance with the conditions and requirements of this Licence and shall retain all the foregoing records as required by Licensee's Quality Assurance Program approved by the Authority.

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Schedule 3

Application Documents

1. LRA-FANR-LTR-20-0079, "Barakah Nuclear Power Plant Units 3&4 – Nawah Application for a License for the Possession, Handling, Transfer (Import and Re-export), Introduction, Removal and Storage of Unirradiated Nuclear Fuel", dated 11 May 2020.
2. LRA-FANR-LTR-21-0117, "Barakah Nuclear Power Plant Units 3&4 - Nawah Application for a License for the Possession, Handling, Transfer (Import and Re-export), Introduction, Removal and Storage of Unirradiated Nuclear Fuel - Revisions to Units 3&4 Unirradiated Nuclear Fuel License Application", dated 2 June 2021.
3. LRA-FANR-LTR-20-0138, "Barakah Nuclear Power Plant Units 2, 3 and 4 – Submittal of the Physical Protection Plan – Construction Phase II, Revision 12", dated 29 July 2020.
4. LRA-FANR-LTR-22-0208, "Barakah Nuclear Power Plant Unit 4 – Request for a Licence for the Possession, Handling, Transfer (Import and Re-export), Introduction, Removal and Storage of Unirradiated Nuclear Fuel" dated 25 August 2022.



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Schedule 4

Interpretation

1. Capitalized terms used but not defined in this Licence shall have the meaning ascribed to them in Article (1) of the Federal Law by Decree No. 6 of 2009 Concerning the Peaceful Uses of Nuclear Energy and in Article (1) of the Federal Law by Decree No. 4 of 2012 Concerning Civil Liability for Nuclear Damage.
2. The terms "nuclear material", "nuclear material accountancy" and "physical inventory" shall have the meaning ascribed to them in Article (1) of Authority's Regulation for the System of Accounting and Control of Nuclear Material and Application of Additional Protocol (FANR-REG-10), as amended by the Authority.
3. The terms "import" and "re-export" shall have the meaning ascribed to them in Article (1) of Authority's Regulation for the Export and Import Control of Nuclear Material, Nuclear Related Items and Nuclear Related Dual-Use Items (FANR-REG-09), as amended by the Authority.

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