**BUSHEHR OSART FOLLOW-UP MISSION**

**18 - 22 June 2022**

**IRAN**

**Content of this document:**

1. The Findings
2. Team and Roles
3. The Methodology
4. Visa, domestic flights and Covid measures
5. The Schedule
6. **The Findings**

Leadership and Management for Safety (LMS)

**1.1(1) Suggestion**: The senior management level should consider proactively addressing identified challenges to continuously improve the safety and reliability of the plant.

**1.1(2) Recommendation:** The reinforcement of management expectations in the field should be enhanced to ensure they are fully understood and implemented by the plant personnel and contractors.

Training and Qualification (TQ)

**2.2(1) Suggestion:** The plant should consider implementing a more robust alarm response management in simulator training.

Operations (OPS)

**3.4(1) Suggestion:** The plant should consider reinforcing the management expectations for identification and reporting deficiencies in the field.

**3.6(1) Recommendation**: The plant should ensure rigorous implementation of the fire prevention and mitigation to ensure the safety of personnel and plant reliability.

Maintenance (MA)

**4.6(1) Suggestion:** The plant should consider enhancing the arrangements for monitoring material condition to ensure that degradation is identified, reported and corrected in a timely manner.

Technical Support (TS)

**5.1(1) Suggestion:** The plant should consider enhancing its in-house efforts and expertise regarding the design to ensure that its technical advice and information from external TSO is appropriate for plant safety.

Operating Experience Feedback (OEF)

**6.6(1) Recommendation:** The plant should improve its arrangements for adequacy of corrective actions and their timely implementation to prevent occurrence of similar events.

Radiation Protection (RP)

**7.3(1) Recommendation**: The plant should set and monitor clear expectations and work practices related to radiation and contamination control to ensure that the risks for the personnel are minimized.

Chemistry (CH)

**8.2(1) Suggestion**: Consideration should be given to maintain the condition of chemistry instruments and equipment to ensure accurate analyses.

Emergency Preparedness and Response (EPR)

**9.2(1) Recommendation:** The plant should provide sufficiently protected and equipped emergency facilities to ensure long term effective implementation of the emergency response actions and protection of personnel in case of all accidents.

Accident Management (AM)

**10.2(1) Recommendation**: The plant should establish and implement a comprehensive severe accident management programme.

1. **Team and Roles**

TL and reviewer: Ronan CAVELLEC [S1.1(1); R1.2(1); R6.6(1); S8.2(1)]

DTL and reviewer: Kaz NAGASHIMA [S5.1(1); R7.3(1); R9.2(1); R10.2(1)]

Reviewer : Simon MORGAN [S2.2(1); S3.4(1); R3.6(1); S4.6(1)]

1. **The Methodology**

The Word document of the original report is amended by:

1. At the end of the INTRODUCTION AND MAIN CONCLUSIONS section, adding:

* a section entitled “Plant Follow-Up main conclusions (Self-Assessment)”   
  which the plant completes **at least 1 month prior to the mission**;
* a section entitled “OSART team Follow-Up main conclusions”   
  which the Team Leader completes at the end of the mission.

1. At the end of each issue after the IAEA Basis, chapters entitled:

* “**Plant Response/Action**” which the plant completes **at least 1 month prior to the mission**. The following description should be included within 1 or 2 pages:
  + Analysis conducted,
  + The root cause(s) identified,
  + Corrective action plan,
  + Progress to date,
  + Corrective action effectiveness evaluation.
* “**IAEA comments**” which the team members complete following review of the actions taken by the plant on the issue as per:
  + Root causes,
  + Actions taken,
  + Action effectiveness review,
  + The reason(s) fi issue not resolved (delete this section if issue resolved).
* “**Conclusion**” which is the team’s verdict on the extent of resolution of the issue by the plant:
  + Issue resolved
  + Satisfactory progress to date
  + Insufficient progress to date

1. **Visa, domestic flights and Covid measures**

* **Visa:** To travel to Iran, individual need an invitation letter to apply for a visa.
* **Domestic flights:** the host organization informs the team of the selected flights.
* **Covid:** The Team will perform a PCR test 24h before leaving the duty station.

1. **The Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| 16-17/06/2026 | Travel and arrival at the DELVAR hotel in Bushehr on 17 June 2022 | | |
| **Day 1**  09:00 - 09:30  09:45 - 10:15 | Leaving the hotel at 08:00 **every day (daily lunch: 12:00 - 13:00)**  **Entrance Meeting** (dress code: formal casual)  Entrance Formalities (including WBC) with counterpart escort; visit of the offices; discuss and agree on review schedule | | |
| 10:30 - 12:00 | Ronan and LMS counterpart to discuss S1.1(1) and R1.2(1) | Kaz with EPR, AM and RP counterparts for field visit (for EPR, AM and RP issues) | Simon and OPS counterparts to discuss S3.4(1) |
| 12:00 - 13:00 | **Lunch** | | |
| 13:00 - 16:30 | Ronan with LMS and CH counterparts for field visit (for LMS and CH issues) | Kaz with EPR and AM counterparts to discuss R9.2(1) and R10.2(1) | Simon with OPS/Fire Protection to discuss R3.6(1) |
| 16:30 - 17:00 | **Last discussion with counterparts seen today on the work done and conclusions** | | |
| 17:00 | **The team leaves the plant – Team Meeting at the hotel after dinner** | | |
| **Day 2**  09:00 - 12:00 | Ronan and LMS counterpart to finalize LMS conclusions | Kaz and EPR and AM counterpart to finalize EPR and AM conclusion | Simon with MA to discuss S4.6(1) |
| 12:00 - 13:00 | **Lunch** | | |
| 13:00 - 16:30 | Ronan and OEF counterpart to discuss and conclude on R6.6(1) | Kaz and RP counterpart to discuss and conclude on R7.3(1) (incl. field visit if needed) | Plant Walkdown with FP & MA |
| 16:30 - 17:00 | **Last discussion with counterparts seen today on the work done and conclusions** | | |
| 17:00 | **The team leaves the plant – Team Meeting at the hotel after dinner** | | |
| **Day 3**  09:00 - 12:00  12:00 - 13:00  13:00 - 15:00  15:00 - 17:00 | Ronan and CH counterpart to discuss and conclude on S8.2(1) | Kaz and TS counterpart to discuss and conclude on S5.1(1) | Simon and TQ counterpart to discuss and conclude on S2.2(1) |
| **Lunch** | | |
| **Last discussion with counterparts seen this week as necessary** | | |
| **The team is preparing the Bushehr OSART Follow-Up Mission** | | |
| 17:00 | **The team leaves the plant** | | |
| *Evening* | *Official dinner (optional; dress code: business casual)* | | |
| **Day 4**  09:00 - 09:30  09:30 - 10:30  10:30 - 11:30  11:30 - 12:00 | TL/DTL: Meeting with plant manager  TL/DTL: Meeting with regulator if requested by the plant  All: Prepare Exit Speech  Team: Exit WBC | | |
| 13:00 - 16:30  16:30 - 17:00 | All: **Finalize Report** (peer check, English check, DTL check, TL check)  Exit speech rehearsal (incorporate changes if any) and departure | | |
| **Day 5**  09:30 - 10:30  10:45 | **Exit Meeting** (dress code: formal casual)  The team leaves the site; hotel check-out; airport | | |
|  | **Or:** additional night, hotel check-out, airport | | |