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**MQP Level 1**

## **ITER Policy on Safety, Security and Environment Protection Management**

The ITER Policy on Safety, Security and Environment Protection Management” presents the strategical objectives of ITER Organization in order to comply with the requirements of the order 7 February 2012 : Priority given to nuclear safety and integration of the protection of the environment, implementation of an integrated management system (IMS) and efficient communication... (Please see complete abstract on document metadata.)

| <i>Approval Process</i>                                     |  |  |   |
|---|--|--|---|
|   | <i>Name</i>  | <i>Action</i>  | <i>Affiliation</i>  |
| <i>Signatory</i>  | <b>Elbez-Uzan J.</b>   | <b>03 Jul 2019:signed</b>  | <b>IO/DG/RCO/SD/EPNS</b>  |
| <i>Co-signatories</i>                                       |  |  |   |
| <i>Reviewers</i>  | <b>Blackler K.<br/>Calpena S.</b>  | <b>16 Jul 2019:recommended<br/>17 Jul 2019:recommended (Fast Track)</b>  | <b>IO/DG/COO/SCOD<br/>IO/DG/RCO/SD</b>  |
| <i>Previous Versions Reviews</i>                            | <b>Casella F.<br/>Chiocchio S.<br/>Dorschner C.<br/>He K.<br/>Lee H. G.<br/>Jucker P.<br/>Kirnev G.<br/>Lee G.- S.<br/>Merola M.<br/>Miele P.<br/>Mokaria P.<br/>Nakajima H.<br/>O'Connor N. *<br/>Orlandi S.<br/>Tada E.<br/>Zhao Z.</b>  | <b>22 May 2019:recommended v3.0<br/>14 Jun 2019:recommended v3.0<br/>11 Jun 2019:recommended v3.0<br/>05 Jun 2019:recommended v3.0<br/>04 Jun 2019:recommended v3.0<br/>04 Jun 2019:recommended v3.0<br/>04 Jun 2019:recommended v3.0<br/>05 Jun 2019:recommended v3.0<br/>05 Jun 2019:recommended v3.0<br/>28 May 2019:recommended v3.0<br/>23 May 2019:recommended v3.0<br/>04 Jun 2019:recommended v3.0<br/>17 Jun 2019:recommended v3.0<br/>27 May 2019:recommended v3.0<br/>28 May 2019:recommended v3.0<br/>24 May 2019:recommended v3.0</b> | <b>ORNL - Oak Ridge National Laborator...<br/>IO/DG/COO/CIO/CMD<br/>IO/DG/RCO/FPD/PCD<br/>Chinese Domestic Agency (CN)<br/>NFRI - National Fusion Research Ins...<br/>F4E (EU)<br/>Russian Research Centre "Kurchatov ...<br/>IO/DG/COO<br/>IO/DG/COO/TED/INC<br/>IO/DG/RCO/PCO/CDPC<br/>IN DA (Supplier &amp; DA) (IN)<br/>IO/DG/COO/CIO/CMD/DCC<br/>IO/DG/COO/CST/CMG<br/>IO/DG/COO/PED<br/>IO/DG/RCO<br/>IO/DG/QMD</b> |
| <i>Approver</i>   | <b>Bigot B.</b>  | <b>18 Jul 2019:approved</b>  | <b>IO/DG</b>  |
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| <i>Read Access</i>  | <b>LG: Quality Control Group, AD: ITER, AD: External Collaborators, AD: IO_Director-General, AD: EMAB, AD: OBS - Quality Management Division (QMD) - EXT, AD: OBS - Quality Management Division (QMD), AD: Auditors, AD: ITER Management Assessor, project administrator, RO, GG: MAC Members and Experts, LG: ...</b> |  |   |

*Change Log*

**ITER Policy on Safety, Security and Environment Protection Management (43UJN7)**

| <i>Version</i> | <i>Latest Status</i> | <i>Issue Date</i> | <i>Description of Change</i>   |
|----------------|----------------------|-------------------|--|
| v1.0           | Approved             | 29 Apr 2011       |  |
| v2.0           | Approved             | 24 Feb 2015       | Updated as per MQP doc Request - QV3P4B.<br>-Applicable regulatory documents extended to<br>1- Decree No. 2012-1248 dated 9 November 2012 authorizing the ITER Organization to create a basic nuclear facility called “ITER-INB-174”;<br>2- The French “INB Order” of 7 February 2012, on the general technical regulations applicable to Nuclear Facilities for the protection of “interests[1]” replacing Order 10 August 1984<br>-Activities for compliance with the objective of protection of the interest cited in Article L.593-1 of the Environment Code included<br>1- Priority given to nuclear safety<br>2- Protection of the environment added<br>3- An integrated management system (IMS) detailed<br>4- Extended communication means presented |
| v3.0           | Signed               | 22 May 2019       | as per approved MQP doc Request - XKQ3N8:<br>* to introduce of a specific sentence regarding Counterfeit, Fraudulent and Suspect Items (CFSI).<br>* to replace “External Contractors” in 3 and 4 by “External Interveners”<br>* to align 2 references with ITER Quality Assurance Program 22K4QX v8.5 (to replace IAEA GSR 3 by IAEA GSR part 2 2016 / to indicate the edition 2015 for ISO 14001)   |
| v3.1           | Approved             | 03 Jul 2019       | Comments treated.  |

## **ITER Policy on Safety, Security and Environment Protection Management**

The objective of the ITER Organization is to demonstrate the scientific and technical feasibility of fusion energy for peaceful purposes, an essential feature of which is the achievement of sustained fusion power generation.

With regard to the ITER Policy on Safety, Security and Environment Protection Management, the ITER Organization is governed by:

- Article 14 of the ITER Agreement<sup>1</sup>;
- The Headquarters Agreement signed with the Host State on 7 November 2007;
- Decree No. 2012-1248 dated 9 November 2012 authorizing the ITER Organization to create a basic nuclear facility called “ITER-INB-174”;
- The French “INB Order” of 7 February 2012, on the general technical regulations applicable to Nuclear Facilities for the protection of “interests<sup>2</sup>”.

The ITER Organization’s first priority, over and above its progress in research activities related to the ITER operation, is to protect its “interests<sup>2</sup>” by preventing accidents and by limiting their consequences related to nuclear safety.

### **In order to achieve these objectives, the ITER Organization shall carry out four strategic activities:**

- 1. Ensure that the first priority is given to nuclear safety by:**
  - Implementing the safety analysis submitted to the French Nuclear Safety Authority (ASN);
  - Identifying the Protection Important Components related to nuclear Safety Important Class (SIC) components;
  - Implementing a robust surveillance of the related Protection Important Activities and Protection Important Systems, Structures and Components;
  - Preventing accidents and limiting their consequences on the workers, public and the environment.
- 2. Ensure the protection of the workers and security, public health and sanitation, and the protection of nature and the environment for non-radiological events by:**
  - Conducting an analysis to identify the activities and structures, systems and components which may interact with the environment and may have a potential impact on it;
  - Minimizing the consequences of potential accidents;
  - Engaging an Environmental Management System following the principles of International Standard ISO 14001:2015.
- 3. Establish an Integrated Management System (IMS):**
  - As part of the ITER Management & Quality Program (including safety, security and protection) with a Continuous Improvement Strategy which follows the IAEA GSR part 2<sup>3</sup>, incorporating the requirements of the INB Order of 7 February 2012;
  - By ensuring that the Domestic Agencies and External Contractors elaborate their own applicable management system requirements in agreement with the IMS;
  - By always taking into account the safety and protection of the “interests<sup>2</sup>” in the decision-making processes;
  - By auditing the implementation of the IMS, periodically reviewing its performance in the fields of safety, security and protection, and constantly improving it by integrating the lessons learned from experience.
- 4. Implement the ITER Policy on Safety, Security and Environment Protection Management, and apply it to all Domestic Agencies and External Contractors by:**
  - Circulating this policy among the staff of the ITER Organization, the Domestic Agencies, and External Contractors working for ITER;

- Implementing a communication and training program to ensure that the staff of the ITER Organization, the Domestic Agencies and External Contractors working for ITER know, understand and apply this policy, and will act in a responsible manner regarding safety, security, public health and sanitation, and the protection of nature and the environment;
- Encouraging a responsible, transparent, open and participative culture on safety, security and quality;
- Creating channels to encourage collection, internal communication, integration and diffusion of lessons learned and by providing feedback;
- Promoting transparency of practices on safety, security<sup>4</sup> and protection for the authorities and the public, especially for the Commission Locale d'Information (CLI)<sup>5</sup>;
- Prevent, detect and treat any occurrence of Counterfeit, Fraudulent and Suspect Items;
- Prioritizing nuclear safety through the Domestic Agencies and External Contractors' adherence to written procedures that implement this policy through their respective Quality Assurance Plans;
- Fostering a safe and healthy workplace with work processes and equipment that reduce hazards, operating in a manner that protects and restores the environment, and integrating sustainability (including pollution prevention) into planning and decision-making;
- Communicating appropriate environmental management system information to staff, subcontractors, customers and other stakeholders;
- Systematically integrating environmental, safety, health, quality, and physical and cyber security principles into management and work practices at all levels;
- Fostering a harassment-free work environment and one in which workers are encouraged to promptly report or raise issues without fear of retribution or retaliation;
- Complying with legal, contractual and other applicable requirements;
- Understanding that fulfilling this policy by knowing and implementing the applicable plans and procedures, including awareness of changes, is a condition of employment.

The means for complying with the present policy are ensured by adequate human and capital resources.

Dated and Signed

The Director-General

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<sup>1</sup> "It is the policy of the ITER Organization to perform its mission observing the applicable national laws and regulations of the Host State (France) in the fields of public and occupational health and safety, nuclear safety, radiation protection, licensing, nuclear substances, environmental protection and protection from acts of malevolence"

<sup>2</sup> The interests to be protected mentioned in Environmental Code Article L-593-1 are security, public health and sanitation, and the protection of nature and the environment. "Security" includes nuclear safety, radiation protection, prevention and the fight against malevolent acts and civil security actions in the case of an accident per Article L591-1 of the Environmental Code.

<sup>3</sup> International Atomic Energy Agency – Safety Standards Series- General Safety Requirements-3 (IAEA GSR part 2, 2016).

<sup>4</sup> To the extent possible on those dispositions linked to the protection against malevolent acts.

<sup>5</sup> Commission Locale d'Information (CLI): an independent local committee of public stakeholders which observes the activities of the ITER Organization.