



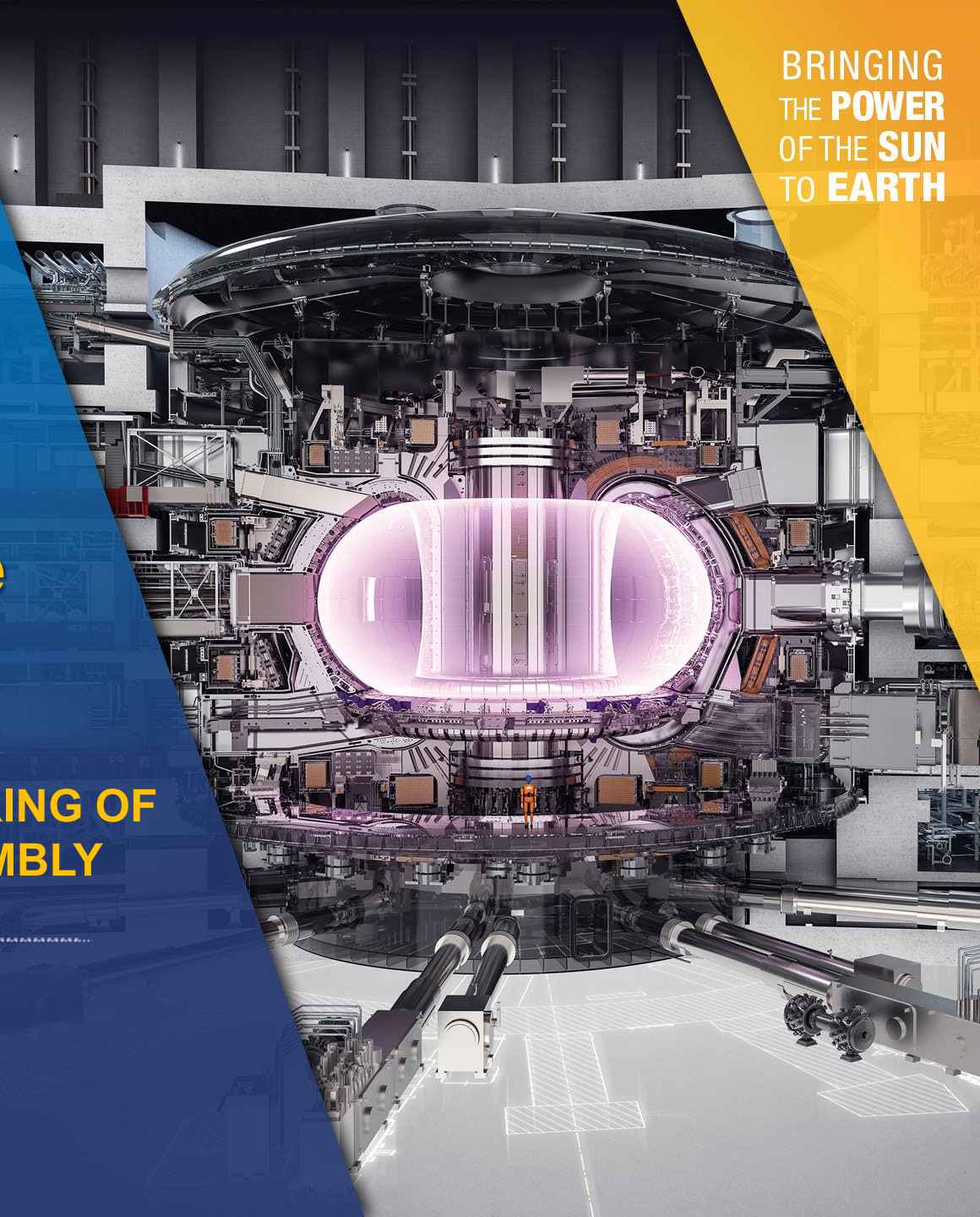
**FUSION
FOR
ENERGY**

BRINGING
THE **POWER**
OF THE **SUN**
TO **EARTH**

F4E-OMF-1609 Quality Assurance Overview

**DESIGN AND MANUFACTURING OF
REMOTE HANDLING ASSEMBLY
TOOLS AND SYSTEMS**

04 November 2024



F4E-QA-115-DM-EI-003	For operational communications the following channels shall be used: <ul style="list-style-type: none">- Technical matters: F4E Technical Project Officer- Commercial matters: F4E Contract and Procurement Officer- Quality matters: F4E Quality Assurance Officer
----------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Marco Chiappone
Quality Assurance Officer



F4E External Support

F4E PRIORITIES FOR THE ITER PROJECT

SAFETY

QUALITY

COST

SCHEDULE

TEAMWORK

QA Requirements - Origin



ITER must comply with:

- INB* order 7 February 2012 -titles I & II
- IAEA** General Safety Requirements No. GSR Part 2 (2016) – “Leadership and Management for Safety”.

* Installation Nucléaire de Base

**International Atomic Energy Agency

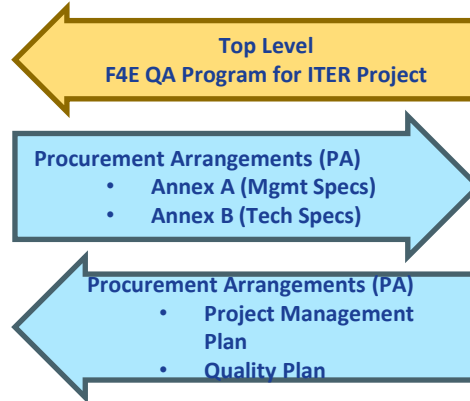
F4E (European Domestic Agency EU-DA) shall comply with ITER QA Program

EU-DA Suppliers shall comply with: F4E-QA-115 - “Suppliers Project Management and Quality Requirements”

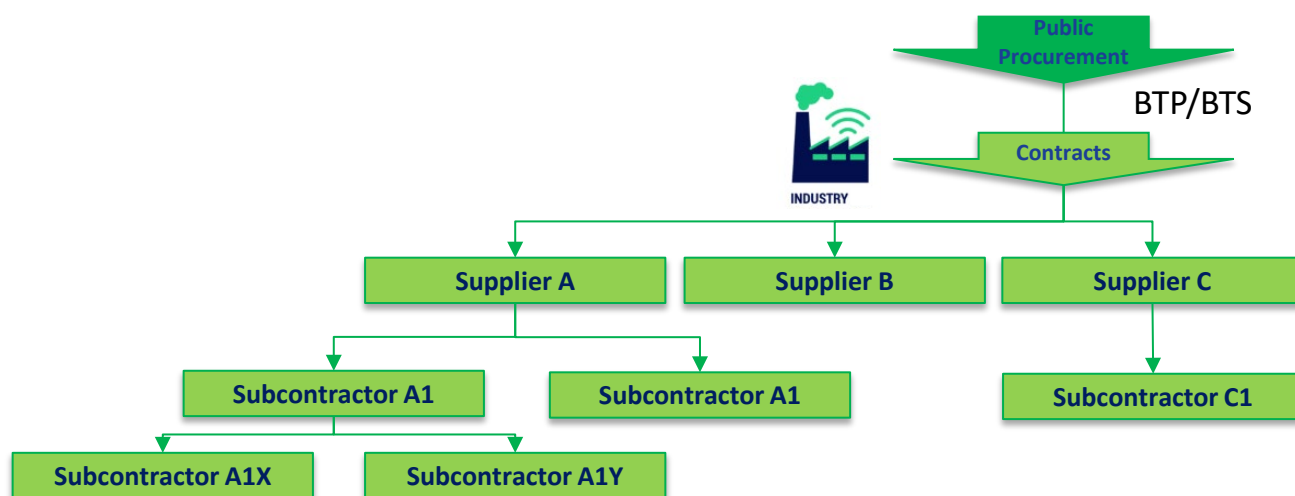
This document incorporates requirements of:

- EU-DA QA Program
- IO QA Program

Propagation of Requirements

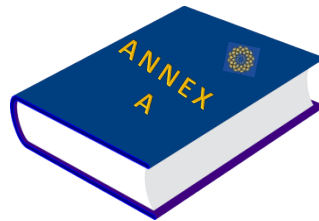
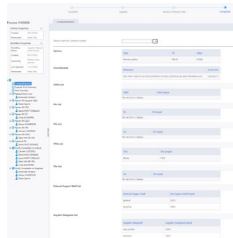


- Other Requirements:
- RCC-MR
 - ASME VIII
 - ITER Vacuum Handbook
 - ESPN Order
 - EU Regulations
 - ...



- Contract**
- Annex A (Mgmt Specs)
 - Annex B (Tech Specs)
- Supply Chain shall demonstrate compliance with contractual requirements

Release Note (CoC/eRN) & ADP



Supply Chain Acceptance Register (SCAR)

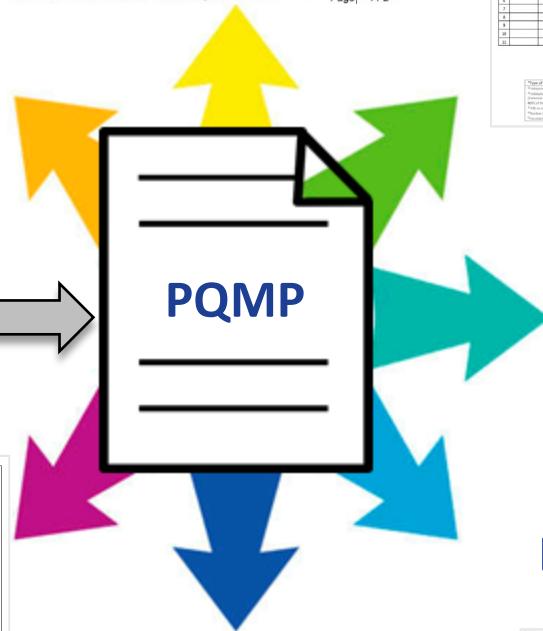
Supplier		Supplier	
Reference Number	Contract Number	Contract Title	Contract Value
...

NCR & Deviations

FUSION FOR ENERGY NONCONFORMITY REPORT FROM SUPPLIER

SUPPLIER DEVIATION REQUEST

Page | 1/2



Management Control Plan (MCP)/Manufacturing and Inspection Control Plan (MIP)											
Item No.	Item Description	Quality Class	Inspection Method	Inspection Frequency	Inspection Location	Inspection Responsibility	Inspection Equipment	Inspection Tools	Inspection Environment	Inspection Records	Inspection Results
1											
2											
3											
4											
5											
6											

Control Plan (MCP, MIP)

Configuration and Documentation List									
Item Description	Supplier	CDL Ref	Supplier	Supplier	Supplier	Supplier	Supplier	Supplier	Supplier
...

Configuration and Documentation List (CDL)

1. Executive Summary

The first four months of project have been performed without main inconvenience except for the placement of the order to buying that is still under finalisation. Even if the SP is SCAR, the trend is positive as shown in the SP trend.

Main reasons why SP is not close to 100% are:

- Initial delay collected on the starting face is not completely recovered yet but it will be completely recovered in a short time
- Approval status has not been reached for a certain number of documents
- Table of contents approach has not been adopted yet

Here below a highlight on the overall status of the main WBS:

- WBS 1 Project and Quality; no issue has been identified in this stage except for the finalization of quality documentation from buying site.
- WBS 2 System Engineering; on going no specific remark to report

Time Schedule

Progress Report

SUPPLIER PROJECT QUALITY MANAGEMENT PLAN is the trigger to achieve contract quality objectives, in few words is:

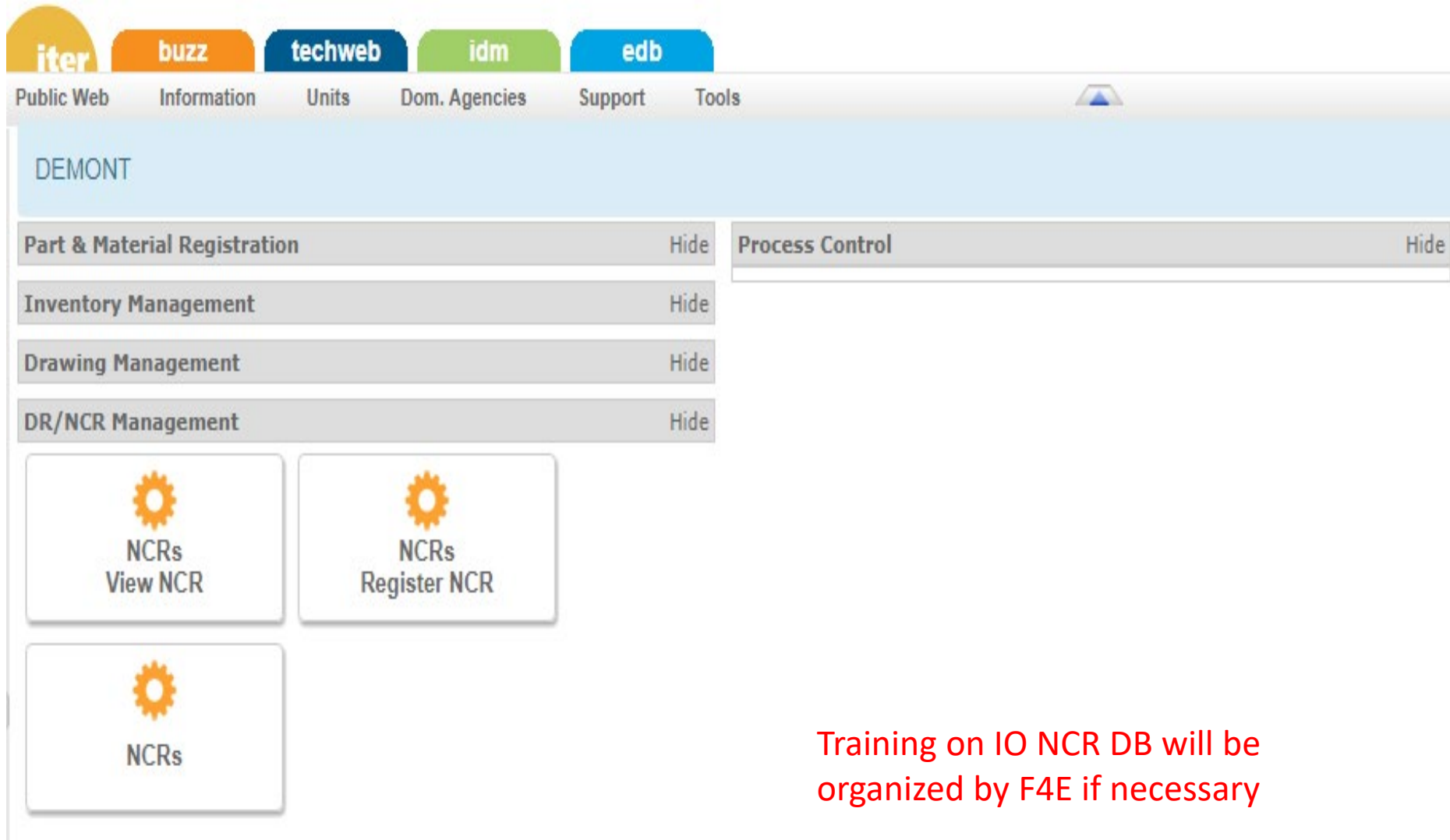
“It specifies quality standards, practices, methodologies, resources, specifications and the sequence of activities relevant to meet F4E requirements.”

CONTROL PLAN is list of the activities that provide evidence that all contractual management and/or quality activities have been properly executed and checked.

F4E defines 2 types of Control Plans:

1. **Management Control Plan (MCP)** is the list of main management and technical activities. It applies to all type of contracts and covers all the phases.
2. **Manufacturing and Inspection Control Plan (MIP)** is the list of activities directly related to the follow-up and verification of the quality and/or safety of the final product(s) and/or service(s) in the frame of prototyping, qualification and manufacturing activities.

Nonconformities

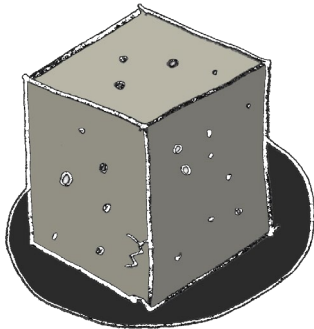


The screenshot shows a web application interface for ITER. At the top, there are navigation tabs: 'iter', 'buzz', 'techweb', 'idm', and 'edb'. Below these are menu items: 'Public Web', 'Information', 'Units', 'Dom. Agencies', 'Support', and 'Tools'. The main content area is titled 'DEMONT' and contains several management sections: 'Part & Material Registration' (with a 'Hide' button), 'Inventory Management' (with a 'Hide' button), 'Drawing Management' (with a 'Hide' button), and 'DR/NCR Management' (with a 'Hide' button). To the right, there is a 'Process Control' section (with a 'Hide' button). Below the management sections, there are three buttons with gear icons: 'NCRs View NCR', 'NCRs Register NCR', and 'NCRs'.

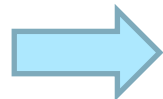
Training on IO NCR DB will be organized by F4E if necessary

Please, be aware:

If you will be compliant with the QA requirements:

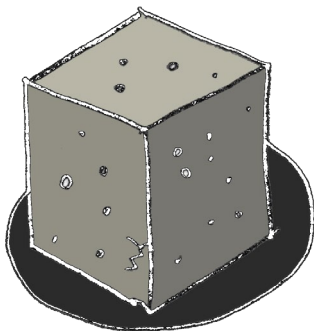


1 m³ of concrete

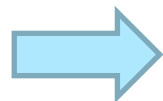


1 m³ of paper

If you will not be compliant with the requirements or you will try to bypass the rules:



1 m³ of concrete



2 m³ of paper



**FUSION
FOR
ENERGY**

Thank you for your attention

Follow us on:



www.f4e.europa.eu



www.twitter.com/fusionforenergy



www.youtube.com/fusionforenergy



www.linkedin.com/company/fusion-for-energy



www.flickr.com/photos/fusionforenergy