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This is the first issue of the EFDA QA info.

The bulletin will be published regularly and contains news/updates on key activities and developments in relation to quality assurance of EFDA.

## EFDA QA

### STATUS

EFDA Quality Commitment - Spread the Word.  
Get everybody involved in Quality.

### BACKGROUND

The EFDA Management expects from all EFDA members that all activities related to the EFDA missions are performed according to agreed quality standards. This makes the products of the activities reliable and safely usable throughout the ITER lifetime.

EFDA shall implement, for the ITER components and activities, the requirements of the "Arrete 10 August 1984" and in general use as basis the IAEA Code for Quality Assurance for Safety in Nuclear Power Plants (IAEA50-C/SG SG-Q) and other Nuclear Installations.

ITER QA system imposes a QA approach of every new task.

## EFDA QMS

### STATUS

Draft of EFDA Quality Management System (QMS) issued.

### BACKGROUND

As deliverable of task TW5-TDS-QA, a draft of EFDA Quality Management System is available for consultation and serves as EFDA management guideline.

The following documents are available in [IDM](#) (EFDA Access only):

- Quality Manual	EFDA/QA-001
- Organization and responsibilities	EFDA/QA-002
- Resources Control	EFDA/QA-003
- Internal Control and Audit (Assessment)	EFDA/QA-004
- Information, documents and records control	EFDA/QA-005
- Configuration Management and Change Control	EFDA/QA-006
- Procurement Management	EFDA/QA-007
- Non-Conformance Control & Corrective/Preventive Actions	EFDA/QA-008
- Quality management in R and D contracts	EFDA/QA-101
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"Quality is everyone's responsibility"  
- W. Edwards Deming

## EDFA QA/PMS

### STATUS

Procurement Management Specification Template – First Release (issued status)  
The first release of the Management Specification Template is out.  
This document, together with its guideline, can be found in [IDM](#) (EFDA Access only).

### BACKGROUND

This document will serve as basis for the **specific per contract Management Specification.**

The activities of the EFDA suppliers will be performed through three contractual documents tailored to each contract placed to European industry or laboratories:

- The **Technical Specification**, defining the object of the contract (the « what? » configuration of the product)
- The **Management Specification**, defining the quality requirements to be met by the supplier (« how? »).
- The **Contract**, defining the commercial and legal requirements and provisions that are applicable.

These documents are issued by EFDA, reviewed and approved by ITER.

To achieve the Management Specification requirements, the supplier shall provide a dedicated **Quality Plan** describing the quality provisions implemented to perform the work.

**The compliance with the Quality Plan shall replace certifications and shall be limited to the actual part (division, department, laboratory) of the Association/Industry that is performing the work.**

### UPCOMING

Test and verify the template on the QA exercises at the associations and in new procurements. Update and integrate new solutions from the feedback.

## TW6-TDS-QA

### STATUS

The WP2006 task TW6-TDS-QA is in full motion (see next sections).

### BACKGROUND

Contract awarded to CEA and IST, with duration until December 2007.

The QA Support Contract (TW6-TDS-QA) consists of the following main work:

- Gathering the Level 3 Documentation (IST)
- Fusion for Energy QMS proposal (CEA)
- QA Exercise with Associations (CEA/IST)

## Level 3 docs

### STATUS

Gathering the available Level 3 Documentation in the Fusion Community- an ongoing effort in EFDA.  
Some documentation being compiled. **But, more is needed!**

### BACKGROUND

Definition of the 4 Levels of Quality Assurance System (Documentation):

- Level 1. High level management practices (QMS, Quality Manual)
- Level 2. General Management Instructions (QMS procedures)
- Level 3. Specifications for the work, codes of practice, internal standards, common tools
- Level 4. QA records (prepared during the work)

Guidelines and recommendations for the creation of a “body of knowledge”, through a web-based storage system to manage identified Level 3 documents for the use of the whole EU Fusion community.

#### QA manual

- Write what you will do
- Do what has been written
- Track deviations
- Write what has been done
- Check quality
- Check contractors
- Arrete 10 August 1984

"If you always do what you did, you will always get what you got!"  
- anonymous

An on-line Level 3 documentation will be of great help to our EU suppliers involved in the ITER project.

#### **UPCOMING**

**This work needs more support and input from the Associations and the EFDA responsible officers.**

Prepare a first set of Level 3 Quality Documents and circulate among the Associations that are willing to review/contribute.

## **F4E QMS**

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#### **STATUS**

The adaptation of EFDA QMS to Fusion for Energy (F4E) is currently ongoing.

The first drafts of some proposed F4E Quality Management System documents have already been issued.

#### **BACKGROUND**

The implementation of a Quality Management System in Fusion for Energy is needed in order to comply, as a minimum, with the safety and licensing requirements which regulate the activities in support of ITER construction.

The Quality Management System described in this Quality Manual applies to all ITER related activities performed by F4E, including subcontracting qualified laboratories and industries as well internal resources.

The F4E QMS proposal is being prepared starting from the draft resulted from task TW5-TDS-QA (EFDA QMS draft).

#### **UPCOMING**

- Issue of the proposal for the F4E QMS.
- Check proposal with ITER.
- Issue the proposal to the F4E Director

## **QA Exercise**

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#### **STATUS**

The following 3 WP2006 tasks were selected for the exercise:

- 1) Diagnostics (hydraulic analysis on a representative equatorial port plug structure);
- 2) Test Blanket Modules
- 3) Divertor Test Platform 2 (Task TW6-TVRDTP2DEV).

Tasks 1 & 2 to be implemented by CEA/IST.

Task 3 to start 2 months later by EFDA QA RO.

#### **BACKGROUND**

Development of a case study based on relevant R&D or manufacturing task (in research environment) showing implementation of management specifications and development of a quality plan.

Selection of two relevant tasks and Associations involved and develop together the pilot quality plan for the task to verify if the approach is viable and effective.

#### **UPCOMING**

- 2 days meeting with the EFDA tasks RO's (week 18.2007)
- 1 day meeting with the Association Task Leader
- 2-3 days meeting with the QA rep. at the Association.
- Scattered interactions during the work and a final meeting (half a day).

## **QA Upcoming**

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02/03 May - (Garching) Meeting with EFDA RO's: QA Exercise with Associations

11/12 June – (Barcelona) Second QA Meeting for the EU Associations  
(material from the 1<sup>st</sup> meeting is available on [IDM](#))

The internal EFDA QA info is produced by D. Rodrigues. Feedback is welcome, and can be sent to: [Diogo Rodrigues](#)

Bulletin Distribution: EFDA Euratom Associations.