



**FUSION
FOR
ENERGY**

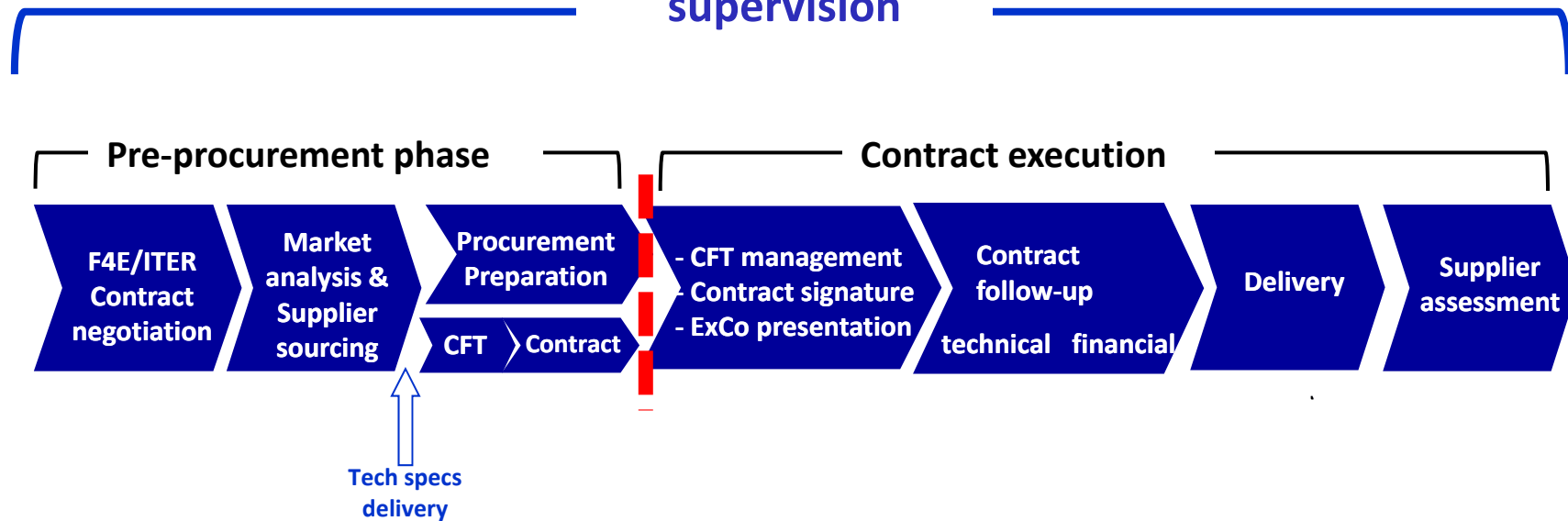
Industry, Services and RD for ITER Confederation Suisse

**Fusion For Energy
- Work programme -**

March 30th 2011, Berne

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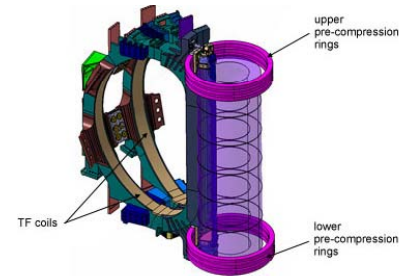
F4E Project Leader supervision



- The Procurement Arrangements (PAs) between F4E and its customer are the starting point of F4E WP execution
 - In particular necessary technical inputs, QM inputs deposited with the Nuclear Safety Authorities, standards....
- WP2011 is in line with ITER Council agreement
- Planning of activities and delivery by other ITER DAs is respected.
- Current ITER design confirmed, but modifications might be required..
- F4E continue management of EFDA tasks, results of which are required to initiate certain F4E activities.
- Technically and commercially complex procurements will be implemented whenever appropriate through the *Competitive Dialogue* procedure or through the negotiated procedure

Magnets:

- Pre-compression rings: call on-going
- PF Coils: negotiation on-going
- TF Coils: Radial Plates series manufacturing.



Vacuum Vessel:

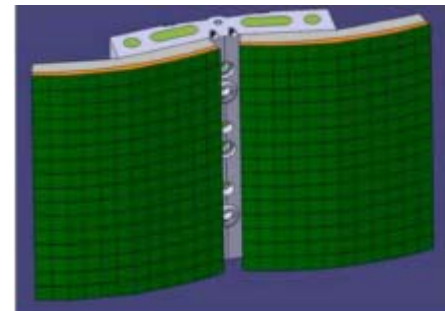
- Additional stages and options to be released according to contract schedule.

Divertor

- Q3: pre-production qualification (supply of 3 prototypes)
- Q3: manufacturing of full scale prototype
- Q3: high heat flux testing on W and CFC proto.

First Wall:

- On-going: OPE-097 for semi-prototypes
- Q3: procurement of a test facility for High heat flux testing (on Be-coated mock-up)
- Q3: irradiation and post-irradiation tests (mock-ups)
- Q3: **manufacture of a full scale prototype**





Cryoplant:

- Q3: F4E CFT (indication in Portal) see next presentation.

Tritium Plant:

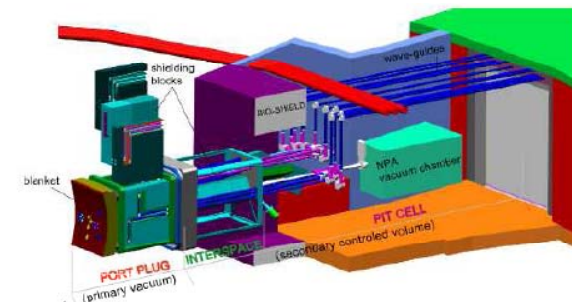
- WD tanks; procurement activity 2010 postponed to 2011

CODAC

- Q1: Service Framework contract for in-sourcing engineering support;

Diagnostics (bolometers, infrared tech, optical, reflectometers, dust measurement etc):

- Q1: Grant for High resolution neutron Spectrometer
- Q2: Integration Port CFT, & information day after CFT launch
importance of the mapping
- Q2: Dev. & design for 10 diagnostics (GFPA) + HXR diag.
- Q2: Irradiation & post irradiation testing services
- Q2: Magnetic sensors prototypes & test equipment
- Q3: prototypes in support of GFPA diagnostics



Electron Cyclotron Power Source and supplies (Gyrotron):

- Q2: both “He free” magnet & gyrotron CFTs
- Q2: (GFPA) Design & Development of gyrotron
- Q3: 2nd gyrotron prototype

NBTF (Mitica/Prima/Spider):

- Q1: NB Power Supply by Q1; NB HVD1+Bushing
- Q3: Assembly tools and testing equipments; cryogenic plant
- Q1-2 : Mitica Vacuum System

HCD/AGPS:

- Industry Consultation (3 companies) initiated on Acceleration Grid Power Supply (AGPS) technical matters. The consultation may be enlarged if feedback is not sufficient. In any case, technical note and results will be made public.

Remote Handling:

- Q1: Engineering Support Framework contract, call for tenders to be launched;
- Q1: General information day will take place in Barcelona (most likely, the last week of March or the first of April 2011);
- Q2: Procurement arrangement for the Divertor Remote handling to be signed;
- Q2 Call for expression for interest for all the EU RH Procurement Packages;
- Q4: Procurement arrangement for the In-viewing Vessel system to be signed;

Divertor:

- Mock-ups:



Thank you