



**FUSION  
FOR  
ENERGY**

## **10<sup>th</sup> ILO meeting**

**On-going and main future CFTs  
(F4E Business Intelligence-related activities)**

*25<sup>th</sup> January 2011 - Barcelona*

## Buildings (and site adaptation)



Site adaptation work (OPE-251): [on-going analysis of offers](#)

TB02-Lift and cranes (OPE-285): [deadline 21/02/2011](#)

TB03-Nuclear tokamak building/assembly hall/doors (OPE-286): [deadline 21/02/2011](#)

TB04- Mechanical & Electrical System: [planned publication Q4](#)

TB05&07- Design & Build packages: [planned publication Q4](#)

TB06- HV electrical equipment: [planned publication Q4](#)

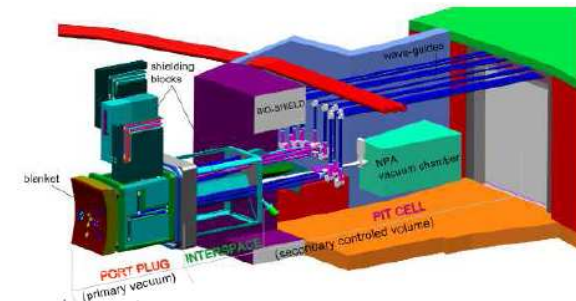
TB08-site infrastructure: [planned publication Q4](#)

## 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: 2<sup>nd</sup> 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.

### **Cryoplant:**

- Q3: ONE F4E CFT (indication in Portal).

### **Test Blanket module:**

- Cf. WP2011

### **Tritium Plant:**

- Tritium tanks; procurement activity 2010 postponed to 2011  
mapping under construction following ILOs feedback in 2010 => will be submitted to ILOs for validation. Not planned to be published so far.

**Analysis and codes:**

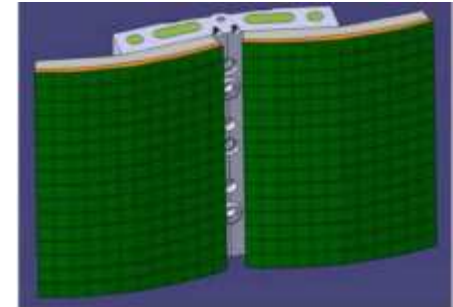
- Cf. WP2011

### 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.

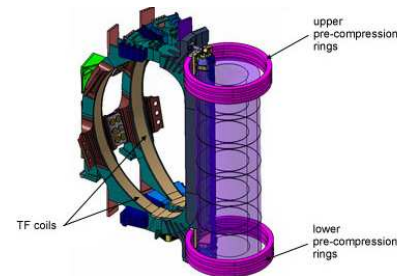
### First Wall:

- 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**



## Magnets:

- Pre-compression rings: call on-going
- PF Coils: negotiation on-going
- TF Coils: MoU RP signed with Japan.. But extended MoU on preparation



## Vacuum Vessel:

- NA

### 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:

## Conclusion



- F4E is respecting the schedule of the Work Programme.