



**FUSION
FOR
ENERGY**

14th ILO meeting

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

30th November 2011 - Barcelona

Buildings (and site adaptation)



- TB02-Lift and cranes (OPE-285): [list of invited candidates published online](#)
- TB03-Nuclear tokamak building/assembly hall/doors (OPE-286): [on-going dialogue; list published](#)
- TB04- Mechanical & Electrical System: [CFOI closed 07/11 \(Competitive Dialogue\)](#).
- TB05- Design & Build package: [target CFT 12/2011 \(Restricted procedure\)](#)
- TB08-site infrastructure: [target CFT 12/2011 \(Restricted procedure\)](#)
- TB06- HV electrical equipment: [2012](#)

[Update Buildings strategy Presentation online soon \(and updated mapping\)](#)



CODAC (Control Data Access and Communication)

- Framework contract : final Mapping and Market Survey outcomes will be published before the Christmas Break. The relating tendering procedure is expected to be launched during the Q1 2012.

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

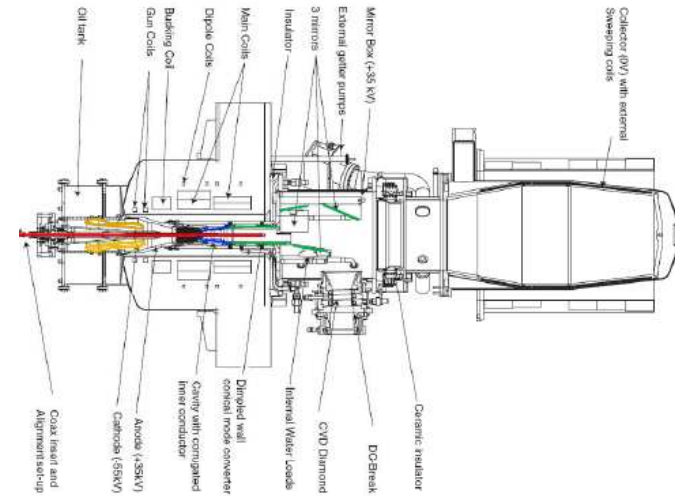
- Under evaluation: (OFC 322) Integration Port
- Under evaluation: (FPA-328 (WP 55/01)) Dev. & design for diagnostics
- 2012-Q1: Irradiation & post irradiation testing services (market survey finished); information day planned in early 2012.

Electron Cyclotron Power Source and supplies (Gyrotron):

- 2012-Q1: Superconducting magnet for the gyrotron (OPE-299)

NBTF (Mitica/Prima/Spider):

- 2012 Q1: Prima Vacuum and Gas Injection Plant;
- Electron Cyclotron system : Ongoing consultations with industries in preparation for the PA concerning in particular alternative designs for the anode power supply and complexity. A Market survey is foreseen early January 2012.



PRIMA Padova Research on ITER Megavolt Accelerator

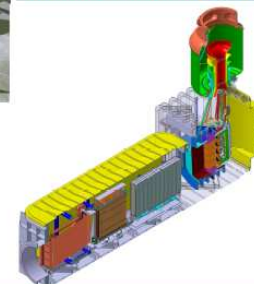


Courtesy RFX



SPIDER Source for Production of Ion of Deuterium Extracted from Rf plasma

Two devices operating in parallel
SPIDER: Full Size Ion Source
MITICA: 1MV injector,



MITICA Megavolt ITER Injector & Concept Advancement

Cryoplant:

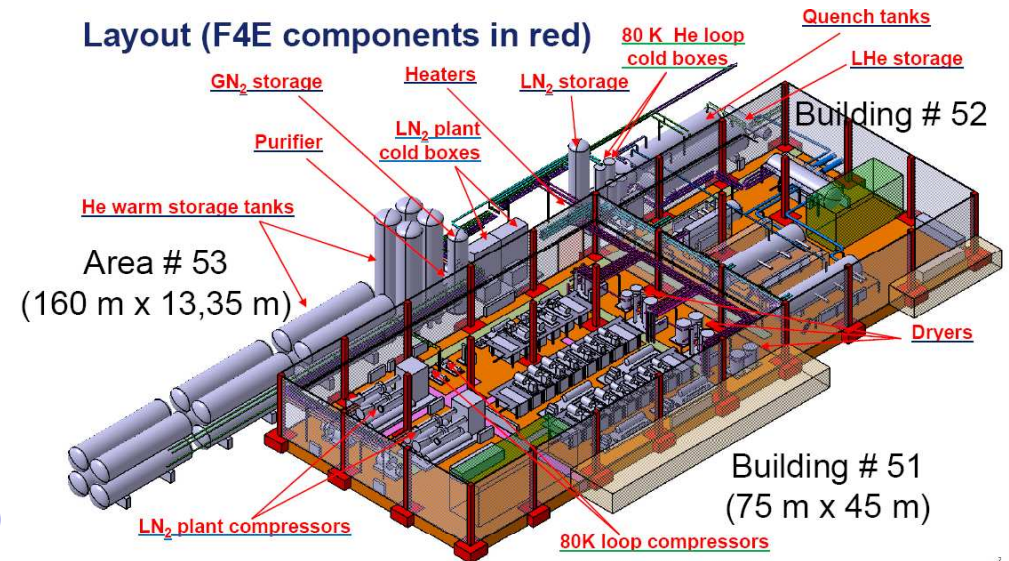
- PA signed during last ITER Council in Japan.
- 12/11 or January 2012: CFT

Vacuum Pumping and Fuelling:

- 12/11 or January 2012: CFT pre-production cryopumps (prototype)

Tritium Plant:

- WDS tanks: procurement activity postponed.



Test Blanket Module, Materials development, and Engineering Support

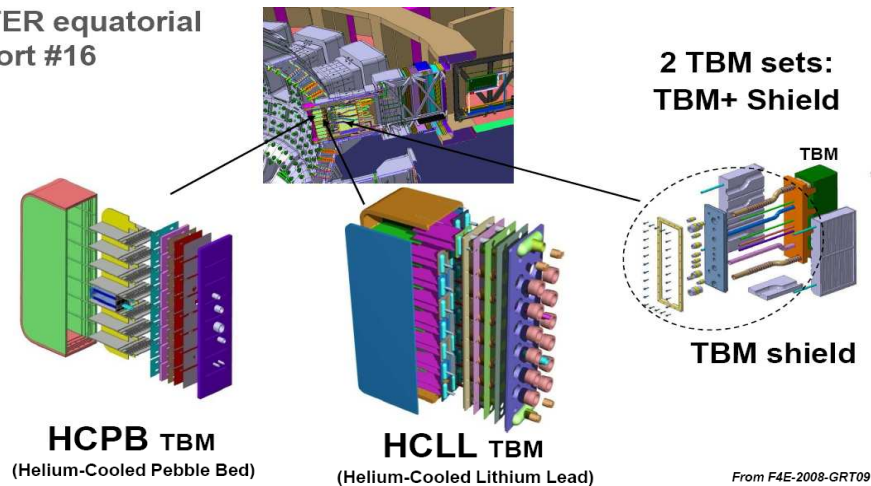


TBMs:

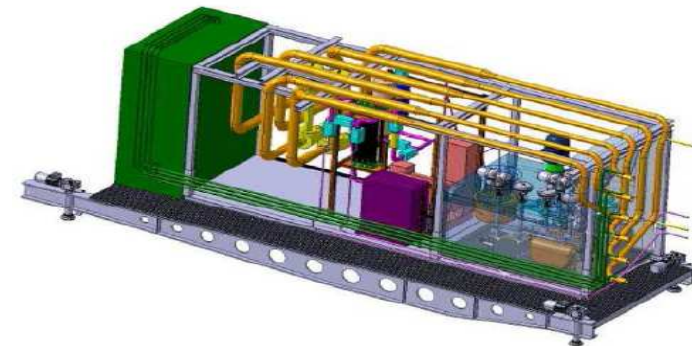
- On-going: (OMF-331) Engineering Support in the area of Test Blanket Module (TBM) Systems Design and Technological Demonstration

Project Office: On-going OMF 332 (risk assessment and risk management support)

ITER equatorial Port #16



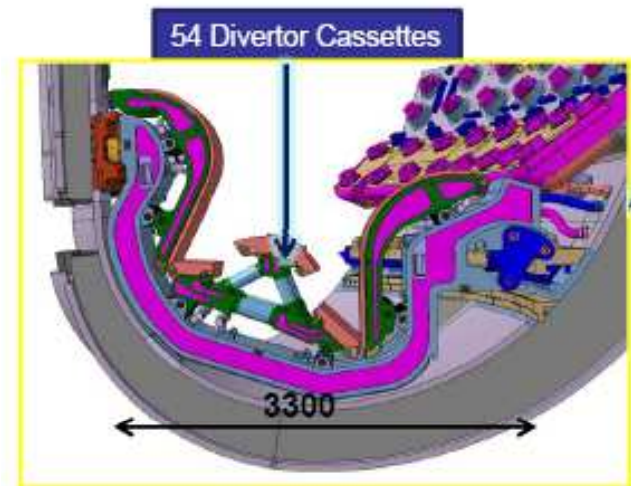
From F4E-2008-GRT09



Ancillary system

Divertor

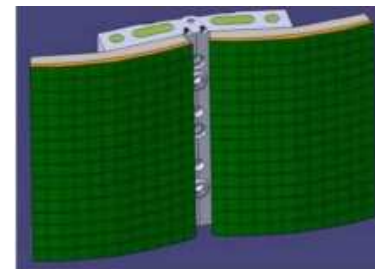
- On-going: (OPE-138) pre-production qualification for the Inner vertical target (Negotiated)
- December: (OPE-311) High Heat Flux testing on W and CFC proto (Open procedure)



Cassette Size: 3.3 x 2.5 m
Cassette Weight: 9 to 11 t

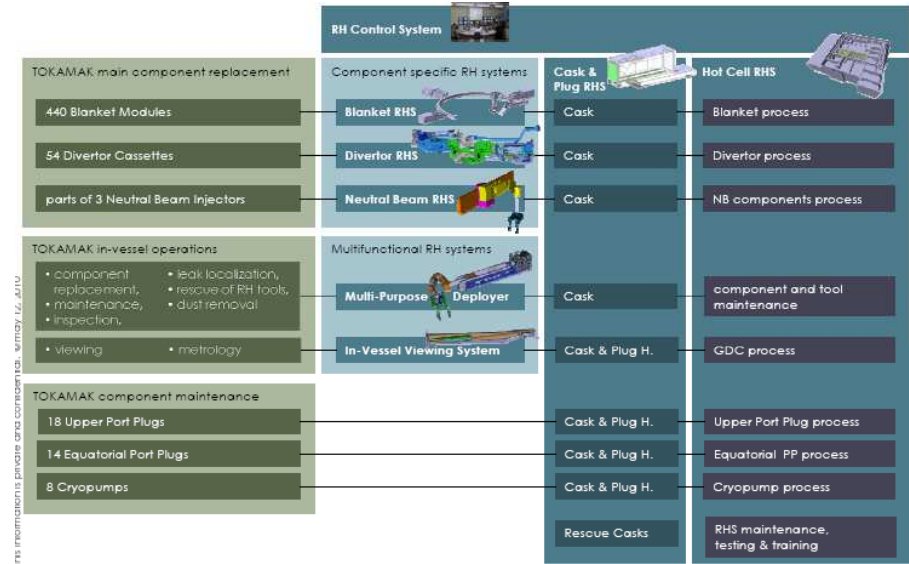
First Wall:

- On-going: (OPE 319) HHF test facility for in-vessel components (competitive dialogue)
- 2012 Q1: 3rd semi-prototype



Remote Handling:

- On-going: CFEI for 3 packages launched (Deadline 03/02/2012)
 - Neutral beam RH
 - Divertor RH
 - Transfer cask
- Competitive dialogue** on Legal aspects expected to start in Q2 2012. Awarding of the first package (Divertor RH) foreseen in Q4 2012.
- 2012 Q2: **In vessel Viewing System.** (later launch due to the different level of maturity of the relating conceptual design which has been recently amended according to new ITER requirements).



F4E -272 – OPE RH Engineering Support Awarded to OTL

Magnets:

- On-going: (OPE-355) radial plate series production (competitive dialogue with 4)

Several lots, 2 scenarios:

Lot 1: 70 radial plates (50 regular + 20 side)

Lot 2: 46 radial plates (36 reg. + 10 side)

Lot3: 24 radial plates(14 reg. +10 side)

If Lot 1 is awarded, Lots 2 and/or 3 will not be awarded; mandatory to tender on the 3 lots

