

EUROfusion PSD Management Meeting

WPSA report 2024-10-29

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This work has been carried out within the framework of the EUROfusion Consortium, funded by the European Union via the Euratom Research and Training Programme (Grant Agreement No 101052200 – EUROfusion). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Commission. Neither the European Union nor the European Commission can be held responsible for them.





WPSA news: machine status

- ME1 shutdown advancing well

- Tangential NB connection- completed
- Saddle loops – completed
- Diamagnetic loops - completed
- Acceptance test of divertor cryopumps - completed
- Supports for Stabilizing Plate advancing
- Installation of P-NBI beam lines now in preparation

- ✓ T-NB connection: total 4 **Completed**
 - 2 connections at P16H completed.
 - Rest of 2 at P04H planned in early Sep.

Port activities

- ✓ Port assembly: total 23 **~37%→48%**
 - 4 T-NB ports completed
 - **9 ports under assembly**

- ✓ EFCC: total 18 **~72%→78%**
 - 14 coils completed (Lo x6, Mid x6, Up x2)

- ✓ FPPC trial winding was completed in Sep.

- ✓ FPPC supports 18/36 completed **~50%→50%**

- ✓ SP supports 45/74 completed **~59%→61%**

- ✓ EF1 repair)

- **Port partial cutting was completed.**

- ✓ Saddle loops: 18/18 completed **100%→100%**

- ✓ Pellet guiding tube supports: 8/12 completed **~66%→66%**

- ✓ Diamagnetic loops temporal assembly: 2/2 completed **100%**

In-vessel

- ✓ Installation on P-NBI beam lines:

- **Under preparation.**



JT-60SA Analysis & Modeling 1: output for WPSA

- Neutron and gamma diagnostics: updated proposal and layout (port allocation)
- Heating systems developments
- Tools for control room analysis
 - Development of data access and visualization tools (incl. IMAS workflow)
 - Development of control room codes for MHD analysis
 - RT Equilibrium reconstruction tools and cross-check (CCS-CREATE)
 - Equilibrium controller (MECS plasma model + CREATE controller)
 - RAPTOR workflow
 - Integrated Data Analysis tool (and necessary basic components to be set-up)
- Coordination SA (development, verification, documentation, /TE (validation, exploitation) being discussed
- Note: previous experience of the former EU-IC team members has been essential for the success of the activities performed during the week





WPSA news: Meetings

- Technical Coordination Meeting (TCM-42)
 - Hosted by RFX in Padua 25-28 Nov <https://indico.cern.ch/event/1460357/>
 - **Agenda available. Focus on**
 - Progress in-vessel components installation
 - Heating systems
 - Cryogenics, magnets
 - Diagnostics
 - Data Access
 - WPSA planning meeting
 - Hosted by CREATE in Naples 4-6 Dec <https://create.unina.it/wpsa/>
 - Agenda completed, sessions on
 - WPSA activities
 - Report on JT-60SA ET (WPTE)
 - Coordination SA/TE for common activities
 - Preparation of transition to W
- **Satellite meetings on:**
 - Cryogenic
 - Magnet modeling
 - CS status
 - Data Access
 - Divertor (W)
 - Diagnostics
 - Pellet system