

EUROfusion PSD Management Meeting

WPSA report 2025-07-08

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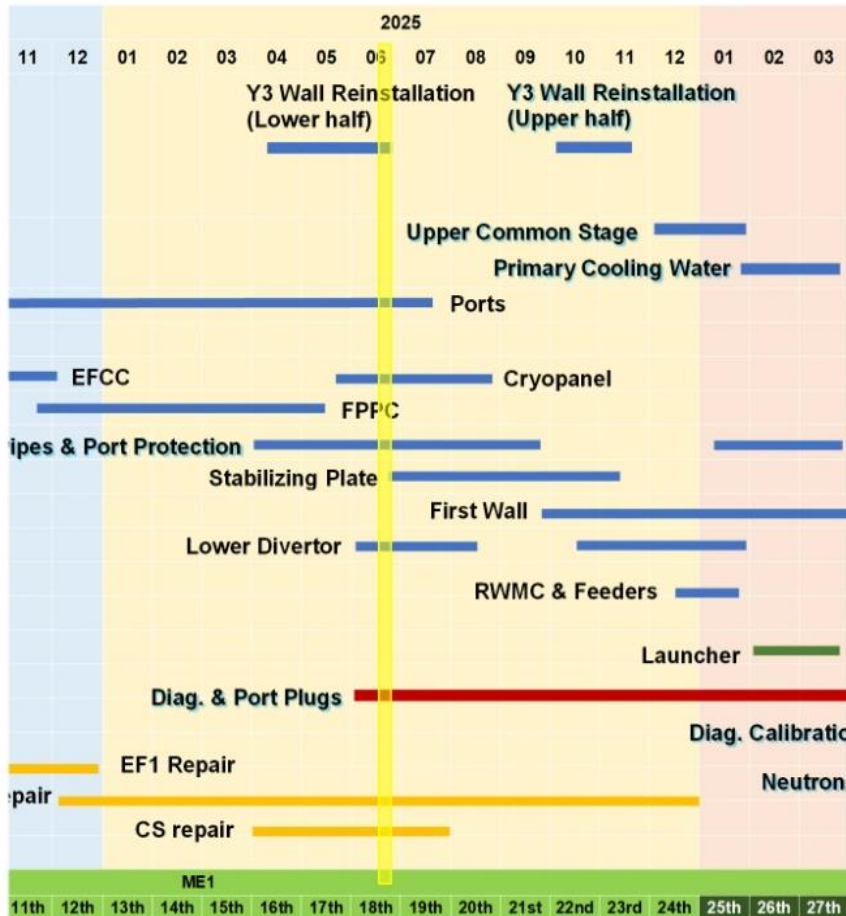


ME1 status



M/E1 Progress

PCM-323
20th Jun. 2025



- ✓ Port assembly: total 18 **~88%→96%**
 - **P06H was set between VV& CV.**
- ✓ Boundary box assembly
 - On-going: Preparation for top panel assembly.**
 - Lower vertical cooling water pipe (even port)
 - Ongoing: two pipes out of nine are under alignments.**
- ✓ Primary cooling water piping:
 - Upper vertical pipe unit
 - On-going: All pipe units (9 units) are set in the port, and under alignments.**
 - Water supply & drain for diagnostics & in-VV coils.
 - Supply: on-going, header pipe assembly.**
 - Drain: on-going, header pipes assembly.**
- ✓ FPPC: Upper coil,
 - On-going: MI cable repairments were completed, this coil case is under assembly.**
- ✓ FPPC: Lower coil,
 - On-going: under surveillance.**

Port activities

Tokamak infra.

In-vessel

- upper FPPC coil case is under assembly
- lower FPPC coil failure under investigation
- manufacturing of the new coil expected to start early August 2025
- Evaluation of the outcome of the investigation planned before new manufacturing
- **Estimated delay of several weeks, to be estimated after construction of the new coil (September-October) =>likely, no plasma operations in 2026**
- Insulation reinforcement work for CS with spray almost completed
- MGI didn't pass He leak test. Remedial action under way



Enhancements

- Cryopumping system: installation ongoing
- Edge TS: installation ex-vessel components starting on 22nd July. Eu team members on site ~ 7 weeks, also for other preliminary activities (pre-alignment in vessel optics, polychromators, laser)
- Div VUV: installation in April 2026. Acceptance inspection in ICSI Romania (polishing of Mech. Structure+shutter)+Frascati (full VUV assembly, but not in the vertical position)
- Pellet system
 - Centrifuge vibration problem solved changing type of bearing (residual vibration at the extreme of the range under investigation). Acceptance test under preparation
 - F4E tender for Pellet sources being launched (pacing+fuelling). 2 EU consortia preparing to answer. Information day on 17th July
- Doppler Reflectometry
- Visit to Naka being organized in September for inspection of the torus hall, agreement on TL routing etc.
- EDGE and SOL diagnostics
 - Process completed, kick-off meetings this week and on 3rd week of July



Tungsten transition

- PSD Meeting on the transition of JT-60SA to W on 17 June 2025 <https://indico.euro-fusion.org/event/3546/>
 - Yevgen Kazakov: scientific goals of JT-60SA / timeline until W transition
 - Valerio Tomarchio : short update on EU procurement regarding the transition (+update on the FW)
 - Marianne Richou: update from WP DIV (test of MB on GLADIS...)
 - Presentations on edge simulations:
 - Lucas Balbinot : SOLEDGE simulations of Ar seeded scenario 2 (to be confirmed)
 - Giulo Rubino : SOLPS-ITER simulations of Ne seeded scenario 2 + effect of closed geometry
 - Wim Van Uytven (KU Leuven) : SOLPS-ITER Wide Grid simulations of Ne seeded scenario 2 + possibly effect of X-point upward shift / gap closure / OT inclination
 - Christoph Baumann : ERO2.0 simulation Full-W simulations in ITER : example of what could be done for JT-60SA
 - Integrated core+SOL modelling:
 - Luca Garzotti : simulations based on Ar seeded scenario 2
 - W transport:
 - Clemente Angioni : preliminary results and plans
 - Carlo Sozzi : update on the diagnostics proposals relevant for the W wall
- QST started contacts with Kyoto Fusioneering for +3 ECRF sources (total 12 for > 10MW to plasma)



Other

- Remote access
 - Data & analysis server available but only for users on site
 - transfer under IFERC network planned for September 2025
 - New authentication process required (not yet communicated)
 - GA milestone on REC moved to end 2025
- WPSA call for 2026-27 being finalized
 - Support for more urgent activities (commissioning of subsystems and enhancements under advanced status of implementation)
 - Not clear yet if/how/when other less urgent but important activities can be supported
- JT-60SA PL leaving the position on end of August
 - Role covered ad interim (December 2025) by the F4E head of the BA unit (Guy Phyllips)
 - Nomination process for new PL started. JG proposed (not yet officially confirmed)