

EUROfusion PSD Management Meeting

WPSA report 2025-01-07

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- EF1 repair completed, now proceeding with remaining EF reinforcement
- Contract for CS reinforcement being prepared. External review process being organized for the CS commissioning.
- Delay in the signature of the formal approval of the US diagnostics (XICS and FIDA)
- MGI leak repair: still not solved due to lack of contractor on site. Other solution being considered (with IPP)
- Edge TSS Laser repair planned with a visit of the provider
- VPN down due to discovered security vulnerability. Unavailable at least for 1 month
- Procurement of new server advancing (nakasvr26: interactive + batch + data storage). DRM beginning of February, installation before Dec 2025. Commissioning by April 2026 under IFERC network. Operational for OP2-3-4 with scalable capabilities of storage.

- Meeting for revision of OP2, OP3, OP4 (for next ME2) diagnostics plan to be held on 28th January
- Meeting on the organization of operation planned for 10th February
- Experiment Team Coordination Meeting 19-21 February 2025 in Naka => extended visit with F4E for discussion on diagnostics enhancements being organized



- W-transition. Discussion on plans on Eurofusion actions. 2 meetings agreed:
 - 1st meeting on edge (Balbinot/Rubino) + core (Garzotti) + W transport (Angioni) simulations to be held beginning of March: aim is to assess how increased edge density in W will affect confinement and how **much more ECRH (electron heating) is needed** (possibly, second interaction before summer)
 - meeting on diagnostics to be held in April (QST, F4E and EUROfusion), following the one on Jan 28 organised by QST & after the PC (12th-13th of March)
 - aim is to review existing capabilities in W and identify missing diagnostics (preparing EUROfusion plans on diags for W), addressing both **protection and physics**
- Characterisation / qualification of W divertor PFCs for JT-60SA
 - Test plan in linear plasma devices discussed with F4E, DIV, PWIE
 - Expected edge conditions derived from currently available edge simulations (SOLPS-ITER and SOLEDGE)=> distributed
 - erosion and lifetime will be assessed on several (number tbd) mock-ups in MAGNUM-PSI and PSI-2 for steady-state conditions.
 - HHF tests possibly to be performed on a sufficiently high number of samples to get statistics on the raw W quality.
 - Possibility of “simulating” transients (disruptions) considered (OLMAT and QSPA facilities)
 - timeframe:
 - already two mock-ups build and some tests started
 - Full scale mock-ups may be available second half of 2025
 - Modeling concerning shaping starting (PWIE)