

EUROfusion PSD Management Meeting

WPSA report 2025-04-15

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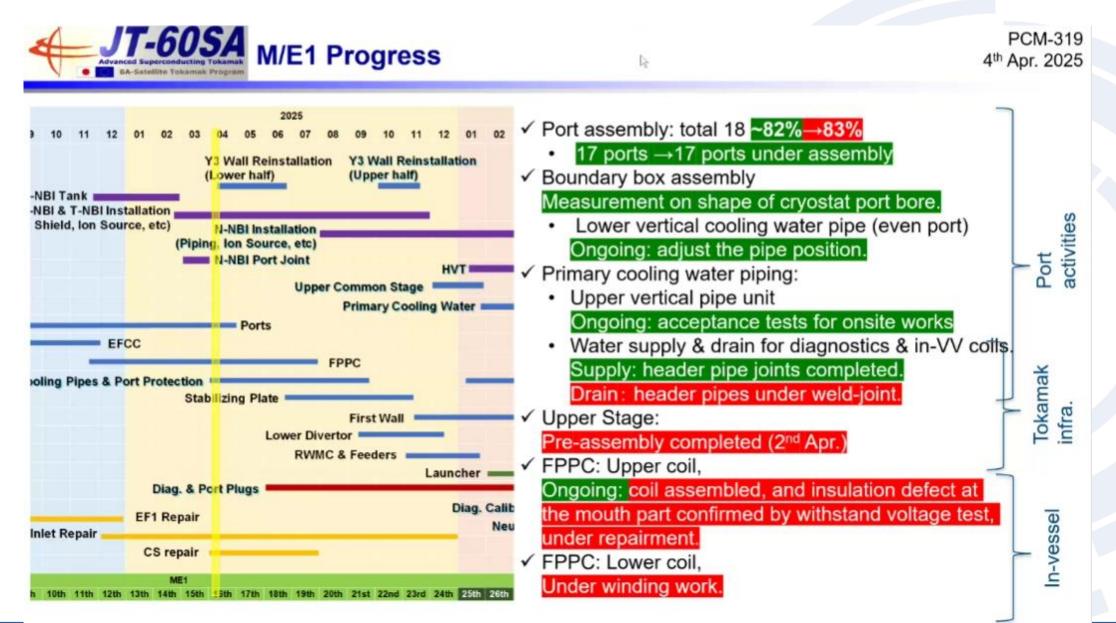


This work has been carried out within the framework of the EUROfusion Consortium, funded by the European Union via the Euratom Research and Training Programme (Grant Agreement No 101052200 — EUROfusion). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect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





ME1 progressing smoothly









- Edge Thomson Scattering port plug, retractable supporting structure, collection optics delivered to Naka. Last TS component, well in time for installation (September 2025)
- Divertor VUV in preparation for acceptance test in ENEA Frascati, planned for week of 18th May
- On site visit of Doppler Reflectometer team (CIEMAT) planned for fist week of June for port inspection
- Final (formal) Design Review Meeting for Tangential Phase Contrast Imaging being organized (before May). Agreed partial installation of ex-vessel components (being procured by EPFL) to facilitate complete installation in ME2



- **JT-60SA Operations**
- Guideline for Machine Operations in OP2 and beyond being discussed with involvement of all the contributing parties (JT-60SA PL and PMs, ET, QST, F4E, WPTE, WPSA)
- "Rules" (CQMS documents) being prepared
- Among the other topics, long-term secondment (~several months to ~several years) for EU personnel being planned (~15 persons, tbd)
 - Scientific programme role
 - Experiment execution role
 - Diagnostics experts (support for commissioning and operation)
 - Data flow and data validation
 - Scientific Assistants for session planning (pulse design)
 - PhD students with supervisors on site (tbd)



- Full data access NOT yet restored
- Reference plan confirmed: access available when the Analysis Cluster moved in the IFERC network (August + test period=September 2025)
- In the meanwhile only local access available: PCs in the QST network can access the database
 - 1 access point (1 PC in the QST network with defined user account) given to F4E
 - All the QST PCs in the QST network can currently access the data
 - On request, 1 user account given to one EU person on site for accessing data from the control room PCs. Report on the activity and usability being prepared



- JT-60SA International Fusion School 2025 Innovations in Fusion
- 1–12 Sept 2025 Naka Fusion Institute, QST, Naka, Japan indico page <u>https://indico.euro-fusion.org/event/3385/overview</u>
- deadline for application 8th May 2025 23:59 Central European Time
- Work package SA Feasibility study and design of Edge and SOL Diagnostics
- call CfP-FSD-AWP25-SA-08 in IMS https://ims.euro-fusion.org/fp9/Call
- information meeting held on Wednesday 26th March 2025 8:30-9:30 CET
- Call closed, 16 proposals received, being analyzed



TCM-43 draft agenda (Frascati week of 18th May)

ay-1 @ 21 May 2025					Day-2 @ 22 May 2025				
CET	Duration	JST	Subject in Session	CET	Duration	JST	Subject in Session		
9:00	0:20	16:00	internation optimation because lasistics at	0.00	0.45	46.00	(5) Discussion (Cont.)		
5.00	0.20	10:00	internet connection, payment for banquet, logistics, etc.	9:00	0:15	16:00	(5) Diagnostics (Cont.)		
9:20	0:25	16:20	(1) Welcome and introduction	9:00	0:15	16:00	PLS		
				5.00	0.15	10.00			
9:20	0:05	16:20	Opening talk						
9:25	0:05	16:25	Agenda of TCM-43	9:15	0:30	16:15	(6) NBI system		
9:30	0:15	16:30	Action List to be updated at TCM-43						
9:45	1:00	16:45	(2) Overall Progress	9:15	0:30	16:15	NBI system restoration		
9:45	0:20	16:45	M/E-1 schedule update and Tokamak Assembly	9:45	0:45	16:45	(7) Power Supplies		
0:05	0:20	17:05	Enhancement of VV baking system						
0:25	0:20	17:25	W safety logic and exhaust system including drain	9:45	0:15	16:45	ECRF PS		
0.45	4.45	47.45	(2) In success	10:00	0:15	17:00	JA activities for Magnet Power Supplies		
0:45	1:45	17:45	(3) In-vessel				EU activities for Magnet Power Supplies under MSMPS PA		
0:45	0:15	17:45	MGI and path towards acceptance	10:15	0:15	17:15	+ TF grounding resistor final decision		
1:00	0:10	18:00	Divertor cassette - manufacturing and installation	-					
1:10	0:15	18:10	FPPC design/manufacturing/feeders/interfaces						
1:25	0:10	18:25	Cryopumps trial installation and preparation for installation in W	10:30	0:45	17:30	(8) ECRF system		
1:35	0:10	18:35	JA other in-vessel activities						
1:45	0:10	18:45	Tungsten ACD procurement	10:30	0:15	17:30	EU activities (TL components/loads/windows/vat valve/vacuum components)		
1:55	0:25	18:55	Transition to Tungsten + summary of satellite meeting	10:45	0:15	17:45	JA activities		
2:20	0:10	19:20	Allowed materials for in-vessel components (QST proposal)						
				11:00	0:15	18:00	TL components procurement		
2:30	0:40	19:30	Lunch Break	-					
3:10	1:20	20:10	Technical Tour / Photo	11:15	0:15	18:15	Coffee break		
4:30	1:10	21:30	(4) Diagnostics	11:30	0:45	18:30	(9) Data access etc.		
1:30	0:10	21:30	Status of Neutronics studies	11:30	0:15	18:30	Progress report on IFERC network integration		
4:40	0:20	21:40	VUV	11:45	0:10	18:45	Progress report on the procurement of the new analysis server		
5:00	0:20	22:00	TSS		0:10	18:55			
5:20	0:20	22:20	TPCI	11:55 12:05	0:10	18:55	Cyber-attack and related actions (temporary local access, EU backup server, etc)		
5:40	0:15	22:40	Coffee break	12:05	0.10	19:05	Improvements on JT-60SA Machine Protection System for OP-2		
				12:15	2:15	19:15	(10) Magnet / Cryogenic system		
5:55	0:40	22:55	QST diagnostics + XICS	12.13	2.13	15.15	(ro) magner / cryogenic system		
5:35	0:30	23:35	New enhancements						
:05	0:30	0:05	US diagnostics	12:15	0:15	19:15	EF reinforcement		
35	0:30	0:35	FIDA	12:30	0:20	19:30	CS reinforcement		
			ent meeting SA report 2025-04-15	12:50	0:20	19:50	VMS PA and overview on activities		



TCM-43 draft agenda + sat. meetings

13:10	1:00	20:10	Lunch Break		
14:10	0:20	21:10	Summary of satellite meeting on Cryoplant maintenance PA		
14:30	0:20	21:30	Summary of satellite meeting on quench detection and quench analysis (including Coil		
14.50	0.20	21.50	protection interlock)		
14:50	0:20	21:50	HTS CL (PA introduction)		
15:10	0:10	22:10	CS joint activities		
15:20	0:20	22:20	Summary of satellite meeting on thermo-hydraulic simulations of PF coils		
15:40	0:20	22:40	Summary of satellite meeting on cryopump operation		
16:00	0:15	23:00	Coffee break		
16:30	2:20	23:30	(11) Preparation for OP2		
16:15	0:20	23:15	Overall plan for Op2		
16:35	0:20	23:35	Experiment Team Report		
16:55	0:30	23:55	HV tests strategy of EF and CS magnets in preparation of OP2		
17:25	0:40	0:25	Experimental program, scenarios and essential tools for main research items		
18:05	0:30	1:05	Commissioning plan		
18:35	0:30	1:35	(12) Project management		
18:35	0:15	1:35	Status and issues of Configuration Control Models (scope may change)		
18:50	0:10	1:50	PID update (input request)		
19:00	0:05	2:00	Action list during TCM-43		
19:05	0:05	2:05	(12) Future plans		
19:05	0:05	2:05	Future plans		
19:10		2:10	Closing		

date / place	Room A	Room B	Room c
19 May 2025 09:00 - 11:00	Tungsten Transition meeting	Satellite meeting Status of CS joint mock-up	
19 May 2025 11:00 - 13:00	MGI installation/RE detection & Synergies with DTT		
19 May 2025 14:00 - 16:00	Satellite Meeting Magnet quench detection meeting	Satellite Meeting OP2 planning	
20 May 2025 09:00 - 11:00	Satellite Meeting Cryopump operation, installation, schedule and interfaces	Satellite Meeting thermo-hydraulic simulations of PF coils	
20 May 2025 11:00 - 13:00	VUV installation and testing		
20 May 2025 14:00 - 16:00	Cryogenics Satellite Meeting	TSS installation and testing	
21 May 2025	TCM-43 0x:00 - 1x:00		
22 May 2025	TCM-43 0x:00 - 1x:00		
23 May 2025 09:00 - 11:00	Neutronics & neutron and gamma diagnostics	EU workplan on TFQDV	Materials for in- vessel components