

EUROfusion PSD Management Meeting

WPSA report 2026-01-15

Carlo Sozzi




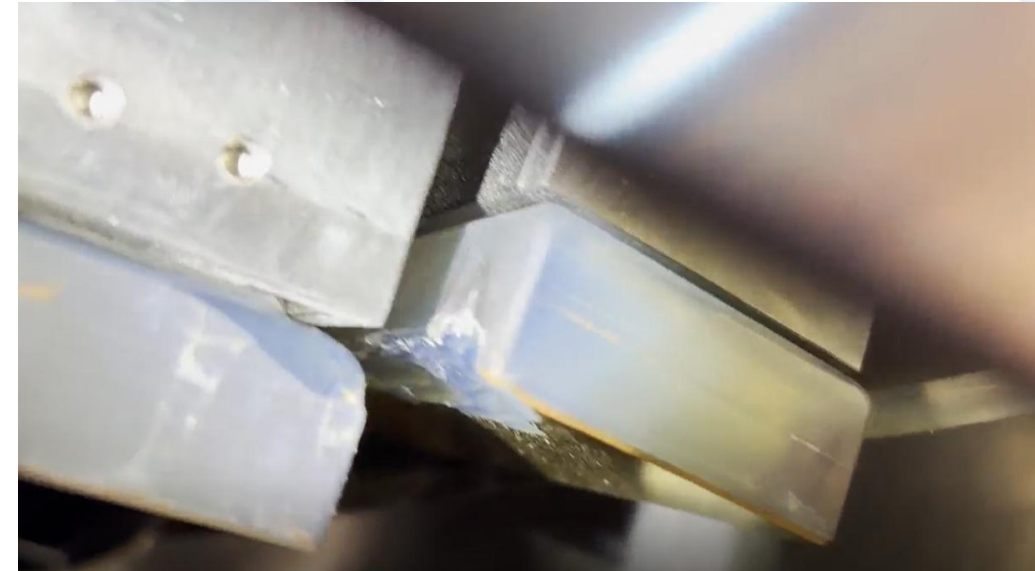
This work has been carried out within the framework of the EUROfusion Consortium, funded by the European Union via the Euratom Research and Training Programme (Grant Agreement No 101052200 — EUROfusion). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect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





Systems under installation:

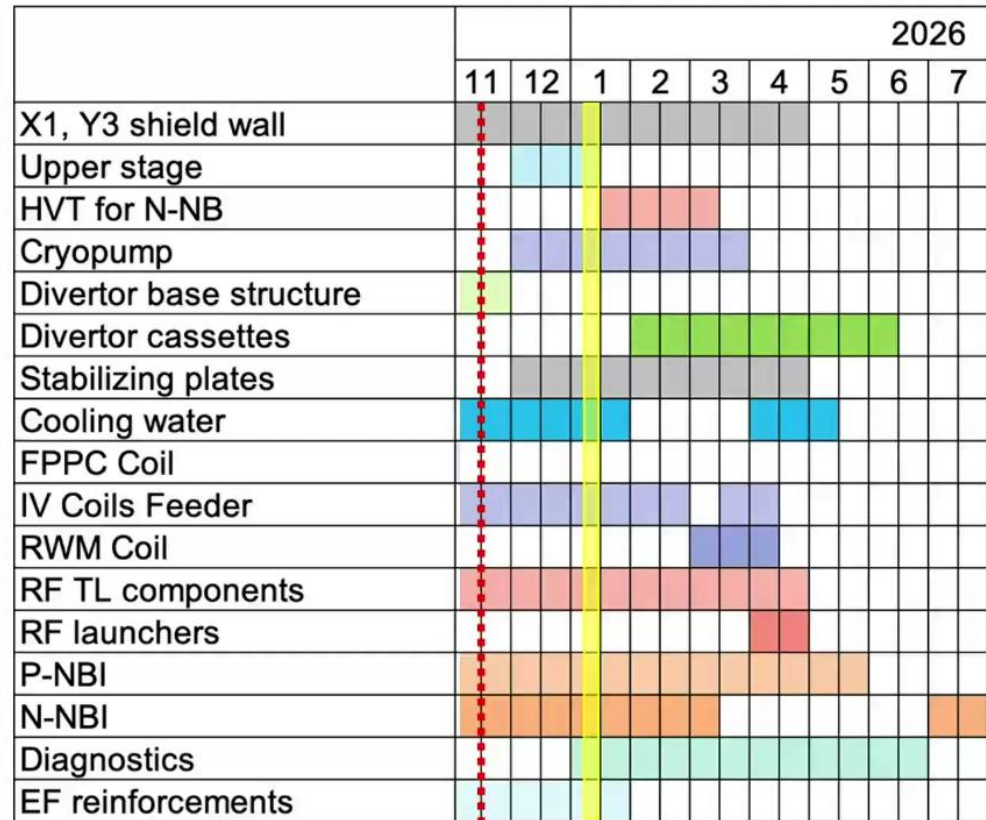
- Edge TS port plug installation starting in **February** 2026.
- Divertor VUV spectrometer: due for installation in **February** 2026. Severe damage during shipping. 
- Training event for the Pulse Design Tool being organized. **Urgent to set up new Eurofusion Gateway for running the software.**





M/E1 Progress

PCM-331
13th Jan. 2026



ME-1 Schedule from TCM-44
K.Takahashi

✓ Port restoration for coil repairment access opening:
On-going: 3 openings out of 5 were completed, rest 2 are under work.

✓ Boundary box assembly

On-going:
Odd; port piping extended are under assembly.
Even; top panel of B.Box are under installation.

✓ Primary cooling water piping:

- Upper vertical pipe unit

Stopped:

- Supply & drain for diagnostics & in-VV coils.

On-going: first wall cooling piping for the inboard of P02-P18 is in progress

On-going: first wall cooling piping for the outboard at P09, P13

✓ Upper stage:

Installation was completed on 15 Dec.

✓ Stabilizing Plate Pre-assembly

Preassembly completed and assembly of the support leg at P03, P06, P07, P08 are completed.

✓ In-vessel Coil feeder

Coil feeders for EFCC are under work at P08 and P11.

Port activities

Tokamak infra.

In-vessel



Status: Diagnostics

PCM-331 13/1/2026

TRO: T. Nakano



Installation schedule in Torus Hall	2025						2026											
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	#	12
Edge Thomson Scattering system	Rar P8								PortPlu	Fibre				Rayleigh scatteri				
Neutron profile monitor system	P10											Calibration						
Thomson Scattering system	P8				Laser Line					Optics/Fibre								
Divertor Langmuir Probe system				cabling														
CO ₂ polarimeter system					CCR													Rea
Penning gauge					P7,8,9													
ECE system						P11				Wave	Calibration							
VUV spectrometer system						P10						Calibration						
Neutron Monitor system										P6	P18	Calibration						Rea
XICS												Calibration						
Div VUV										P12		Calibration						
Bolometer system										P16	P18	Fibre	P18					Rea
Visible Spectrometer & Da emission monitor										P6U	P4F	Portplu	Calibration					
Visible TV camera system										P15	P6	P18						Rearrangement P11
IRTV camera system										P15		P6	Calibration					Neutron
SX intensity measurement system										P14								
CXRS																		
MSE polarimeter system																		
TESPEL system																		
FIDA																		
TPCI																		

From 2nd Feb. , Port plug and opt arms will be installed
Cabling between Torus Hall and PIG room ongoing=> completed
Laser transfer line to P1 completed

port p1The port plug will be installed on 20th Jan
Remaining components will be installed after XICS 9th Mar.
P18 FC will be installed in Jun 2026
All components delivered, PPPL will be around from 19th Jan.

To be installed from 2nd of march
All components will be delivered tomorrow and open on 15th

To be installed from 16th Feb.
Optical axis adjustment completed: 0.2 deg. w uncertainty.
Leak test will be performed tomorrow.

The port plugs will be installed in the week of 26th Jan.

Magnetic shielding delivered/Calibration ongoing

Being witnessed today

Heat shields attached at the port plugs but...

Ablation monitor design ongoing

No progress since then

Ex collective TMS laser disassembling contracted

Utilities: -

NES: -

EDICAM: KVM still needed?



- MGI tested by QST
- Present status (provisional):
 - MG1 can not be installed
 - MG2 can be installed and operated with limited capabilities (reduced pressure)
- Test procedure being checked by F4E (not present during QST test)
- Still margins to complete the repair until end of January

1. Test result of MGI valves

	MG1	MG2
status	Piezo stack did not work Leak tests not yet carried out	Leak observed in $P_{gas} > 3.3\text{MPa}$
operation in JT-60SA	TBD	Could be used in $P_{gas} < 3\text{MPa}$
necessary work before operation in JT-60SA	repair of piezo stack leak test before baking leak test after baking leak test after repetitive operation	✓ ✓ leak test after baking leak test after repetitive operation
other issue	minor leak in MGI valve, but no contamination	minor leak in MGI valve, and minor contamination of air in the injection gas (When Helium was sprayed to Air vol, $10^{-5}\text{ Pam}^3/\text{s}$ was detected in background of $10^{-7}\text{ Pam}^3/\text{s}$.)



2025 reporting

- 37/52 reports delivered

