

EUROfusion PSD Management Meeting

# WPSA report 2026-01-15

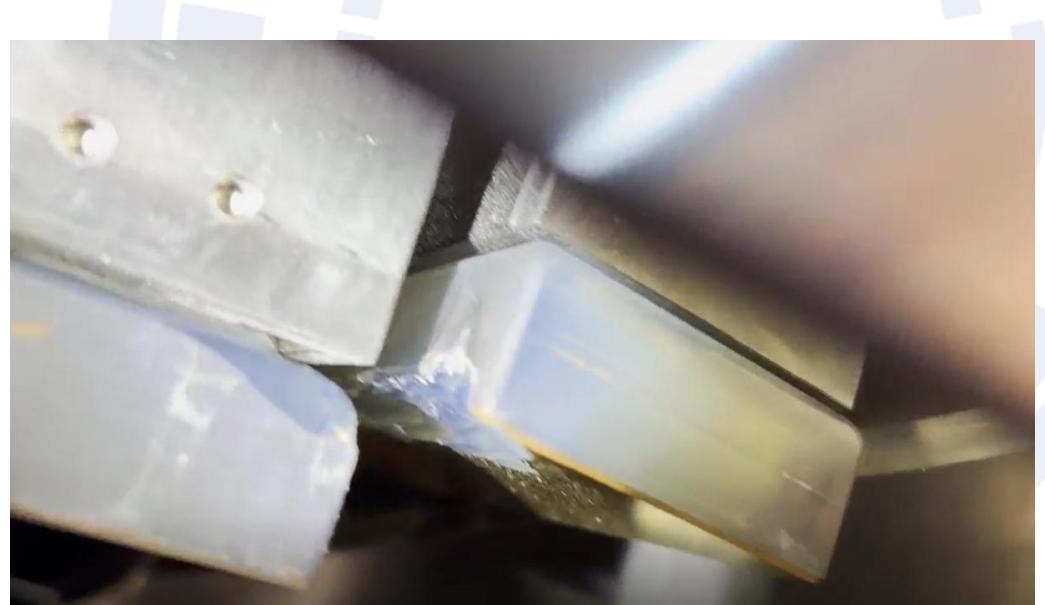
**Carlo Sozzi**





## 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.**





									2026
	11	12	1	2	3	4	5	6	7
X1, Y3 shield wall									
Upper stage									
HVT for N-NB									
Cryopump									
Divertor base structure									
Divertor cassettes									
Stabilizing plates									
Cooling water									
FPPC Coil									
IV Coils Feeder									
RWM Coil									
RF TL components									
RF launchers									
P-NBI									
N-NBI									
Diagnostics									
EF reinforcements									

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 pannel 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
- ✓ 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



Installation schedule in Torus Hall	2025						2026					
	7	8	9	10	11	12	1	2	3	4	5	6
Edge Thomson Scattering system	Rar	P8						Port	Fibre		Rayleigh scatteri	
Neutron profile monitor system	P10									Calibration		
Thomson Scattering system	P8		Laser Line						Optics/Fibre			
Divertor Langmuir Probe system		cabling										
CO <sub>2</sub> polarimeter system		CCR										
Penning gauge		P7,8,9										
ECE system			P1				Wave	Calibration				
VUV spectrometer system		P10					Calibration					
Neutron Monitor system			P10				P18	Calibration				
XICS	P10Floor						Calibration					
Div VUV		P10					Calibration					
Bolometer system		P12C					P18					
Visible Spectrometer & Da emission monitor		P16	P18									
Visible TV camera system		P6U	P4F	Portpl								
IRTV camera system		P15	P6	P18			Rearrangement	P11				
SX intensity measurement system		P15		P6	Calibration							
CXRS		P14					Neutron					
MSE polarimeter system			Fibre	P5/6/7 Portplug								
TESPEL system				P17/Fibre								
FIDA					Calibration							
TPCI						P9						
							work in Diag room					

Utilities: -

NES: -

EDICAM: KVM still needed?

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

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port plThe port plug will be installed on 20<sup>th</sup> Jan  
 Remaining components will be installed after XICS 9<sup>th</sup> Mar.  
 P18 FC will be installed in Jun 2026  
 All components delivered, PPPL will be around from 19<sup>th</sup> Jan.  
 To be installed from 2<sup>nd</sup> of march  
 All components will be delivered tomorrow and open on15th  
 To be installed from 16<sup>th</sup> 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 26<sup>th</sup> 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



- 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

	MGI1	MGI2
status	Piezo stack did not work Leak tests not yet carried out	Leak observed in <u>Pgas</u> > 3.3MPa
operation in JT-60SA	TBD	Could be used in <u>Pgas</u> < 3MPa
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, $10^{-5}$ Pam <sup>3</sup> /s was detected in background of $10^{-7}$ Pam <sup>3</sup> /s.)



## 2025 reporting

- 37/52 reports delivered

