

KOM WPSA Operation Area

Introduction

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.





ME1 progress (red=good, green=bad)



M/E1 Progress: good progress

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

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 welding.
- ✓ Boundary box (B.B.) assembly
On-going: Even; MGI and other gas piping (boron & Hydrogen) are under weld assembly.
On-going: Odd; side panel assembly are under leakage test.
- ✓ Primary cooling water piping:
 - Upper vertical pipe unit
Leakage test on the In-VV side was completed (9/9).
 - Supply & drain for diagnostics & in-VV coils.
On-going: first wall cooling piping for the inboard & the outboard are under welding assembly.
 - Divertor upper & lower connecting pipes outside tokamak
Welding at all P01, P05, P10, P15 were completed.
- ✓ Stabilizing Plate Assembly
Set and alignments of support legs were completed (11/18).
Double wall at P09M/L, P10M/L, P11M/L were completed.
- ✓ In-vessel Coil feeder
on-going: EFCC feeder were under installation (7/18).



JT-60SA timeline



Overall Schedule & Milestone for Op-2

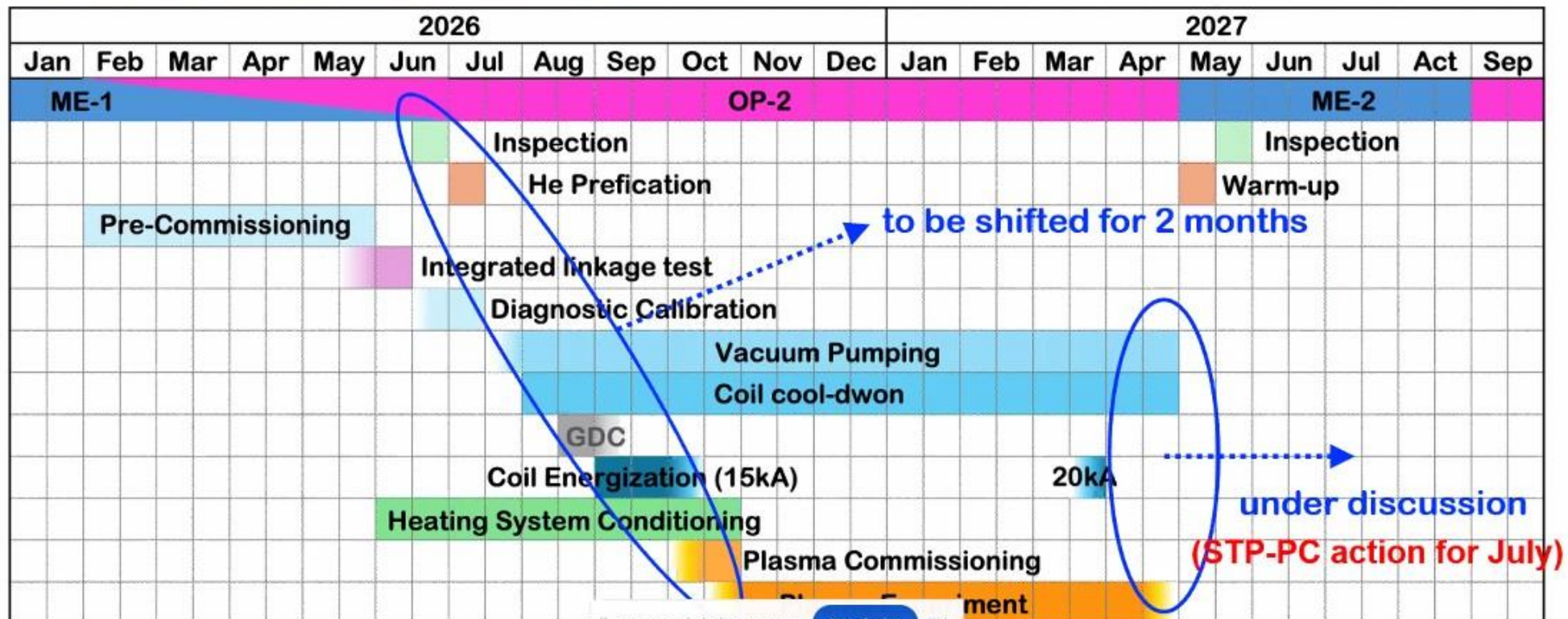
Project Milestones

Vacuum pumping : July 2026 → September 2026

Shine-through experiment with N-NBI : Feb. 2027

H-mode plasma achievement : Mar 2027

20kA PF energization : Mar 2027





Status of Schedule & Milestones



Project Milestone

Vacuum pumping : July 2025 → September 2026 (impact of FPPCC winding issues) → Impact on the global project schedule being discussed

Schedule of OP-2

	2025			2026											
	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Electrical inspection															
Cryoplan inspectio															
In-vessel coil commissioning															
SC coil HV test															
Diagnostics calibration															
ECRF commissioning															
NB commissioning															
Vacuum Pump															
Coil Cool-down/Cryogenic condition															
Coil energization															
Plasma Operation															



Incoming events

- **3rd Experiment Team Workshop, 27-31 July 2026 (Naka, Japan)**
 - Workshop topics include: plasma control, integrated data analysis and IMAS, beta test of RMS
 - Includes HMI training ('Invitation to HMI training for JT-60SA' being finalized by PL)
 - Includes pulse design training
- **Note:** dedicated training for future JT-60SA operators under discussion (QST)
- **4th Experiment Team Workshop: end Sept. – beg. October (under discussion)**
 - Workshop topics include: plasma modeling (tungsten, main scenarios, etc.); HMI training, part 2
- **Call for participation to the machine commissioning activities (subsystems etc), with or without plasma in preparation (expected in May)**
- **Technical Coordination Meeting 45 – EPFL/Lausanne 26-29 May 2026**