



**UK Updates
Global CCCM
Dec '24**

Graeme Burt & Niklas Templeton on behalf of UK WP4 team

CM2 Build

- Pre-cleanroom string assembly complete
- + cleaning & qualification of non-cavity beamline equipment
- Step1 underway
- *Step2 expected mid-Jan'25*
- *Clean-build complete by late-Jan'25*
- Cold test equipment upgrade & commissioning complete



Design, Assembly Procedures & Tooling

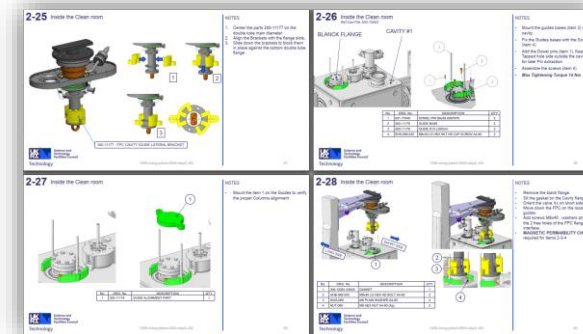
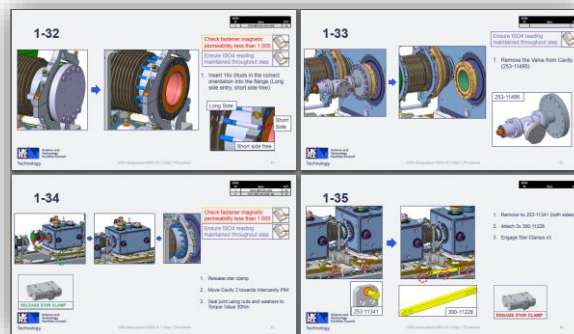
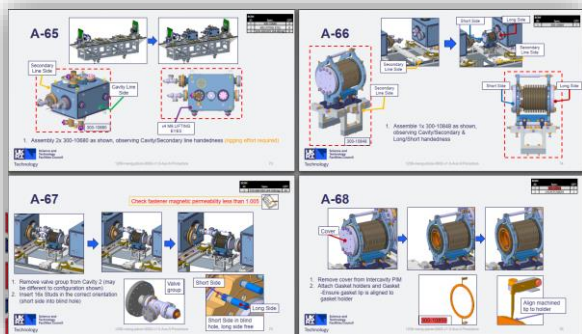
Build Procedures

- Done: *steps 1 & 2*
- Final edits: *steps 3 & 4*
- 1st draft complete: *steps 5, 6, 8, 9, 11*
- To-do: *steps 7, 10, 12*

Auxiliary Procedures

- Done ✓
 - pre-cleanroom string assy (step0)*
 - PIMs processing*
 - Cav incoming handling & acceptance*
 - gate valve processing*
- Final edits: *OVC acceptance & handling*
- 1st draft complete:
 - CM outgoing tests (step13)*
 - Thermal screen mock assy*
- To-do: *Transport tooling & frame (step14)*

	Prcdrs	Dwgs
RFD SPS	892p	675
DQW LHC	927p	280
<i>(so far)</i>		



Cryomodule Procurement

Outer Vacuum Chambers: *1st ready to ship*

1st Bi Phase line:

- *MIP & Weld QA approved*
- *Fabrication underway*
- *Awaiting delivery estimate*

'other' cryolines:

- *MIP & Weld QA approved*
- *Fabrication underway*
- *CM2 Batch 1 expected late-Jan*

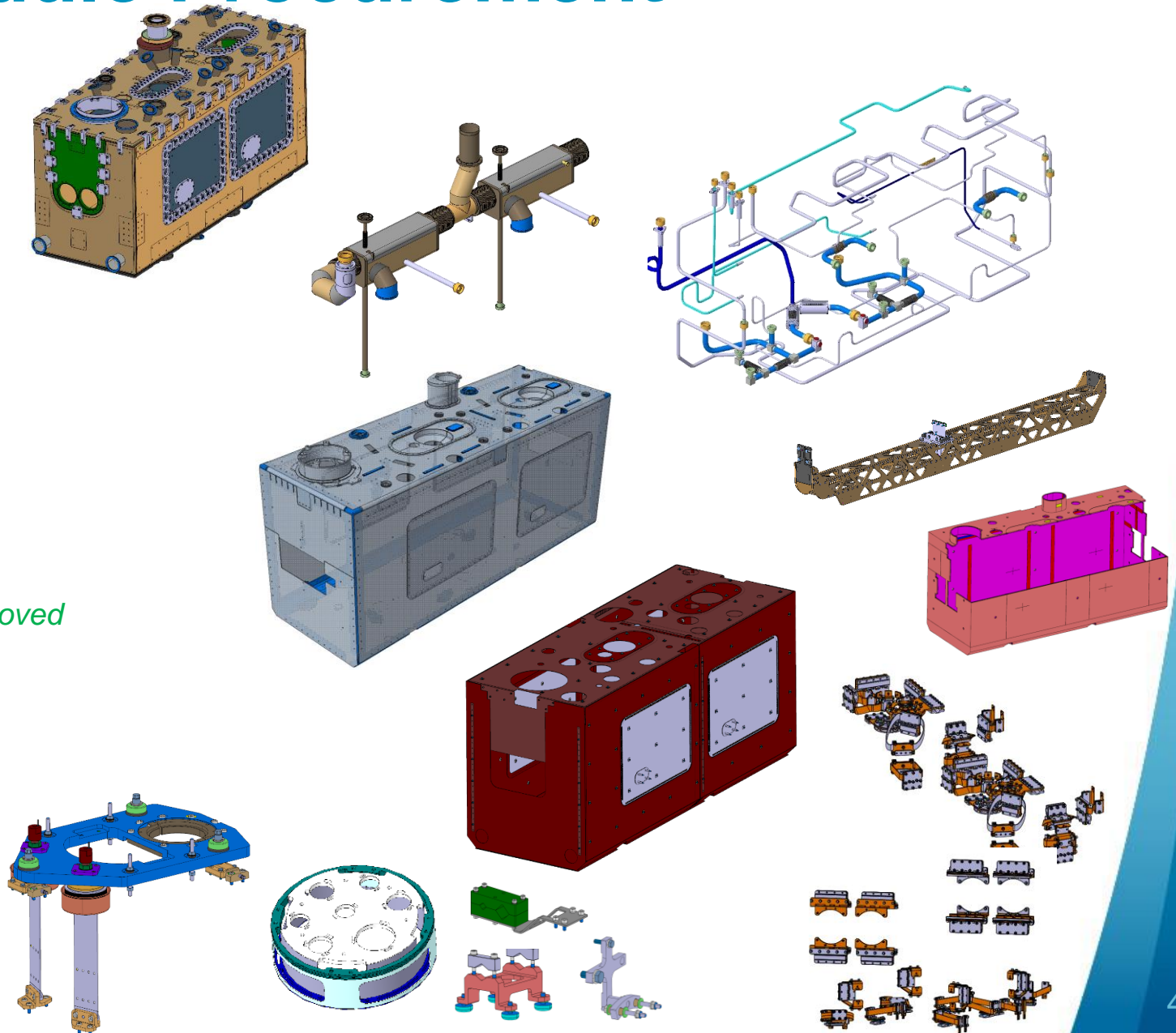
Thermal Screens: *expected mid-Jan*

MLI: *50K delivered – 2K design & drawings approved*

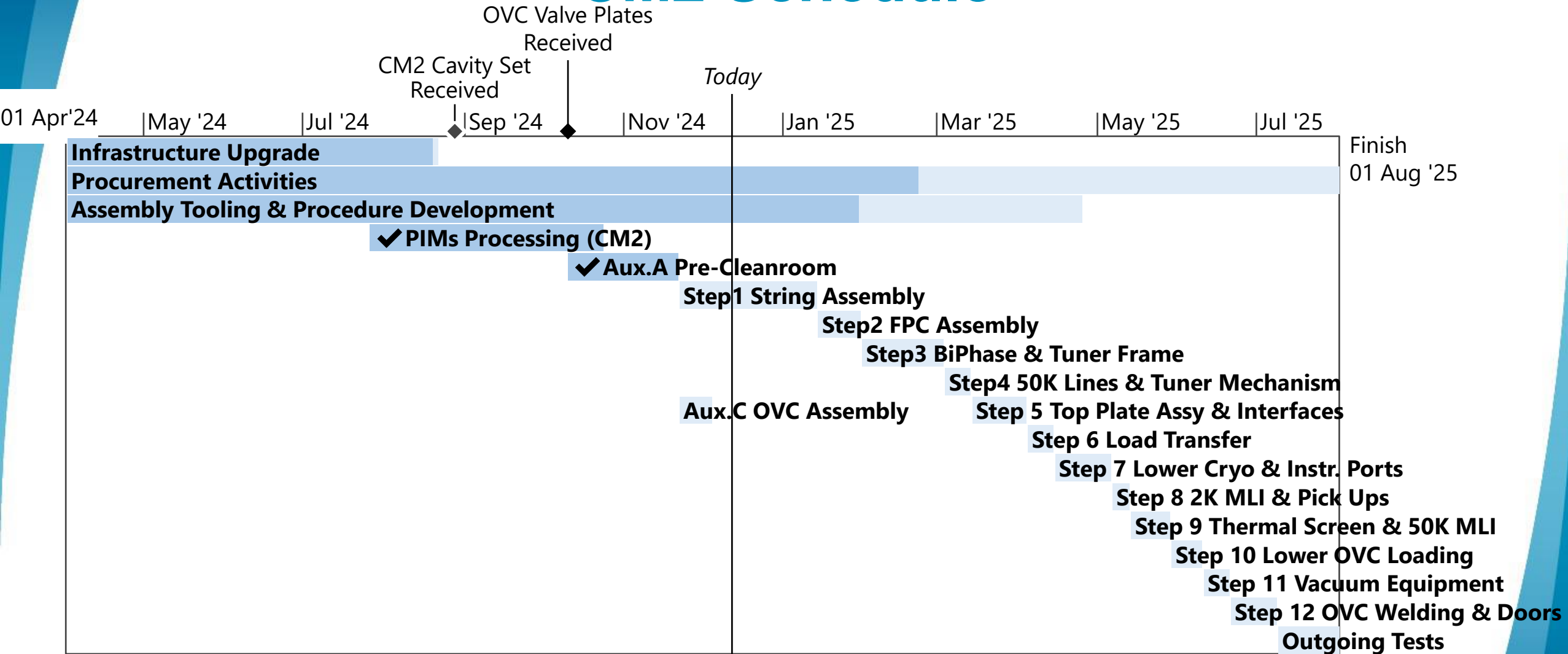
Warm Mag Shields: *4 shipped, 5th underway*

Cavity Support System & Other Packages:

- *All materials delivered & contracts placed*
- *Some delivered*
- *TBD – blade welding*



CM2 Schedule





Departed
 Marco Mangiavini
 Contract Engineer Oct'24

Design, Assembly Procedures & Tooling

Quality Assurance, Welding & Logistics

Instrumentation, Qualification & Testing

Technical Engineering

Ed Jordan
DAPT Lead

Carlos Granjeiro
QAWL Lead

Andy Blackett-May
IQT Lead

Luke Bladen
TE Lead

Kavi Grad Engineer

John Welder

Ivan Cryo Engineer

Stuart Vac Engineer

Abi Technician

Luke F Lanc. Grad Engineer

David Undergrad Engineer

Ollie Vac Engineer

Susan Technician

Matty Technician

Matty Apprentice

Dan Apprentice

simplified representation – does not reflect STFC pay & management





HL-LHC-UK

Thanks!

Questions?

