
FDR Walkthrough

Resources

- OEC Sandbox
 - <https://indico.cern.ch/event/1393802/>
- GM&I Sandbox
 - <https://indico.cern.ch/event/1405397/>

GM&I FDR SANDBOX: Session #1

TUESDAY, 14 MAY		Restricted	Europe/Zurich	T. Jones
14:00	→ 14:15	Introduction to Review and Replies on general Items to PDR Report	15m	
		0:10 talk + 0:05 questions		
14:15	→ 14:45	OEC Introduction, Replies to PDR Report & Main Design Changes	30m	
		00:20 talk + 00:10 questions		
		Speaker: Tim Jones (University of Liverpool (GB))		
14:45	→ 15:35	OEC Design & Manufacturing	50m	
		Presentations (30') + Questions (20')		
		Global Mechanical Structures	10m	
		Design & manufacture of Global Mechanical Structures		
		Speaker: John Carroll		
		Type-1 Cooling Interconnect	10m	
		Description of thermo-fluidic design & implementation of Type-1 Cooling Interconnect		
		Speaker: Simone Coelli (Università degli Studi e INFN Milano (IT))		
		Type-1 Electrical Services	10m	
		Design and implementation of Type-1 Power and Type-1 Data cabling		
		Speaker: Stephan Eisenhardt (The University of Edinburgh (GB))		
15:35	→ 15:50	Afternoon break	15m	

GM&I FDR SANDBOX: Session #2

Time	Topic	Duration
15:35 → 15:50	Afternoon break	15m
15:50 → 16:40	OEC Design Validation & Performance Presentations (30') + Questions (20') Half-cylinder Prototyping Experience from the assembly of a L4 prototype half-cylinder Speaker: James Coleman-Mills Thermo-fluidic Testing Results from work (full L4, one-loop L2 and L3) at BabyDEMO Speaker: Sonia Carra (Università degli Studi e INFN Milano (IT)) Global Mechanical FEA Studies Expected deformation & stability of Outer Pixel Endcap Speaker: Mauro Monti (Università degli Studi e INFN Milano (IT))	50m 10m 10m 10m
16:40 → 17:30	OEC Integration Presentations (30') + Questions (20') OEC Integration & Test Integration tooling. Integration & test of services. Integration & test of half rings. Half-cylinder mating & test Speaker: Marianna Testa (INFN e Laboratori Nazionali di Frascati (IT)) Welding During Integration Geometrical issues, welding & re-work Speaker: Paul Neil Kemp-Russell (University of Sheffield (GB))	50m 20m 10m
17:30 → 18:00	OEC planning Presentation (20') + Questions (10') Overview of OEC Integration scheduling. Plans for PRRs. Procurement. Speaker: Helen Hayward (University of Liverpool (GB))	30m

Session #1

- OEC Introduction, replies to PDR & main design changes
 - https://indico.cern.ch/event/1393802/contributions/5858841/attachments/2817637/4989266/1_Introduction_070524.pdf
- OEC Design & Manufacturing (3x10' + 20')
 - GM Structures – John
 - Type-1 Cooling – Simone
 - Type-1 Electrical – Stephan

Session #2

- **OEC Design Validation & Prototyping (3x10' + 20')**
 - Half-cylinder Prototyping – James
 - Thermo-fluidic Testing – Sonia
 - Global Mechanical FEA - Mauro

- **OEC Integration (20'+10' + 20')**
 - OEC Integration & Test – Marianna (20')
 - Welding During Integration – Paul (10')

- **OEC Planning (20' + 10')**
 - Overview of OEC Integration Schedule, PRRs & Procurement - Helen