

Report: 23

Activity: LHC Insulation Vacuum

Name Jaime Pérez Espinós

Meeting 17/02/2020



LS2



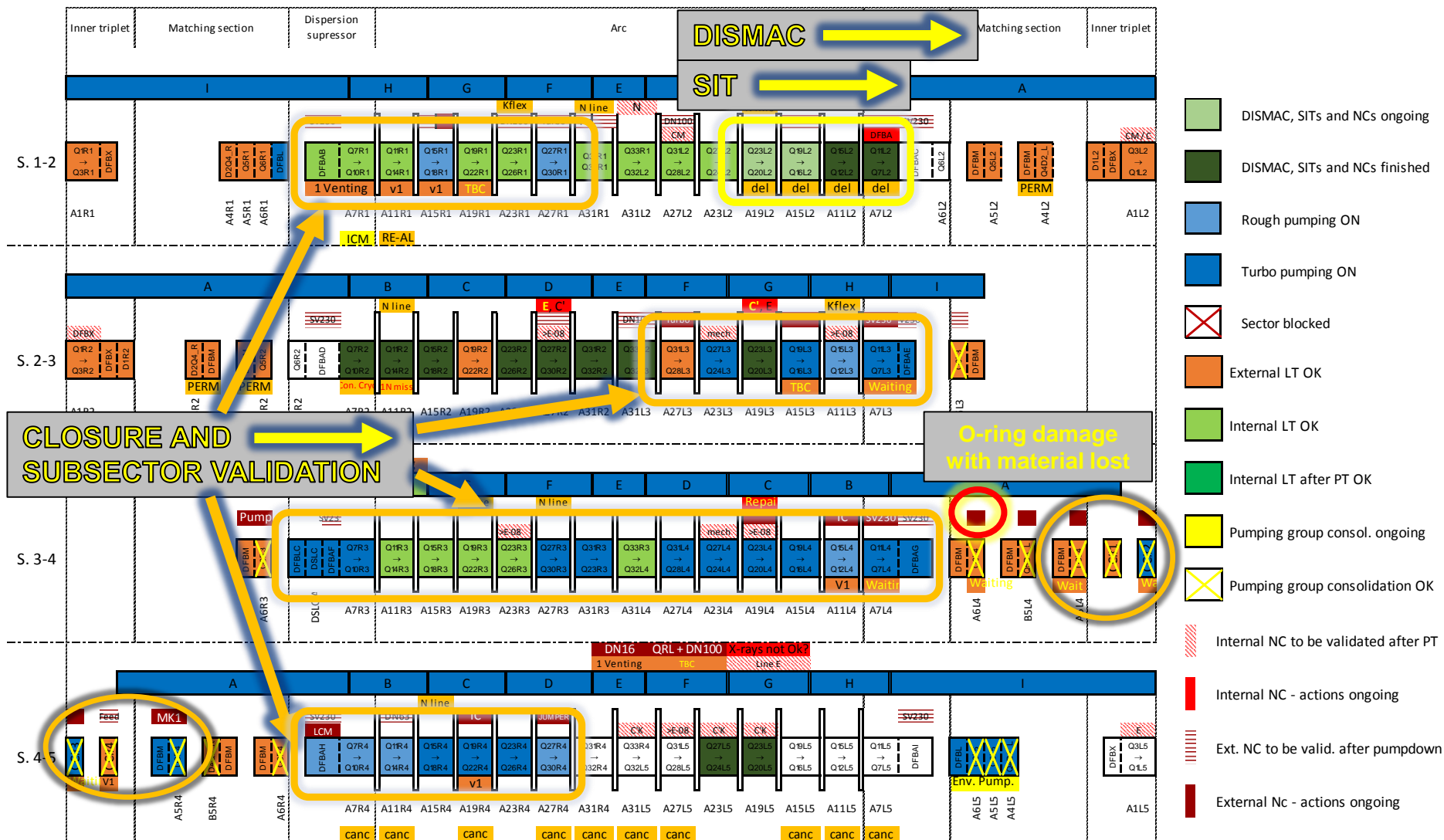
Performed activities during last 2 weeks

- Leak test activities
 - SIT
 - Leak tests linked to magnet exchanges around Q16L2 and connection cryostat at A7L2.M (~250 leak tests foreseen) [AL4030 + Wim + Natalia]
 - DISMAC
 - Leak tests on A19L2, A15L2, A11L2 and A7L2, following validation to test only subsectors affected by SITs on cold mass volumes [AL4030 + Natalia]
- Closure and preparations for global leak tests
 - Envelope leak test of A15R1, A15L3, A7L3, A15R3, A23R3, A27L4, A19L4, A7L4 and H34.Q [AL4030 + Jaime]
 - Repair of leaks and pump-down start at A15R1, H34.Q, E45.Q, A11L4, B5L4, A5L4, A19R4 and D81.Q [AL4030 + Jaime]
 - Pump-down start of new 9 vacuum subsectors in s. 2-3 and s. 4-5
 - Turbo pumping follow-up or swap of ~20 vacuum subsectors [AL4030 + Jaime]

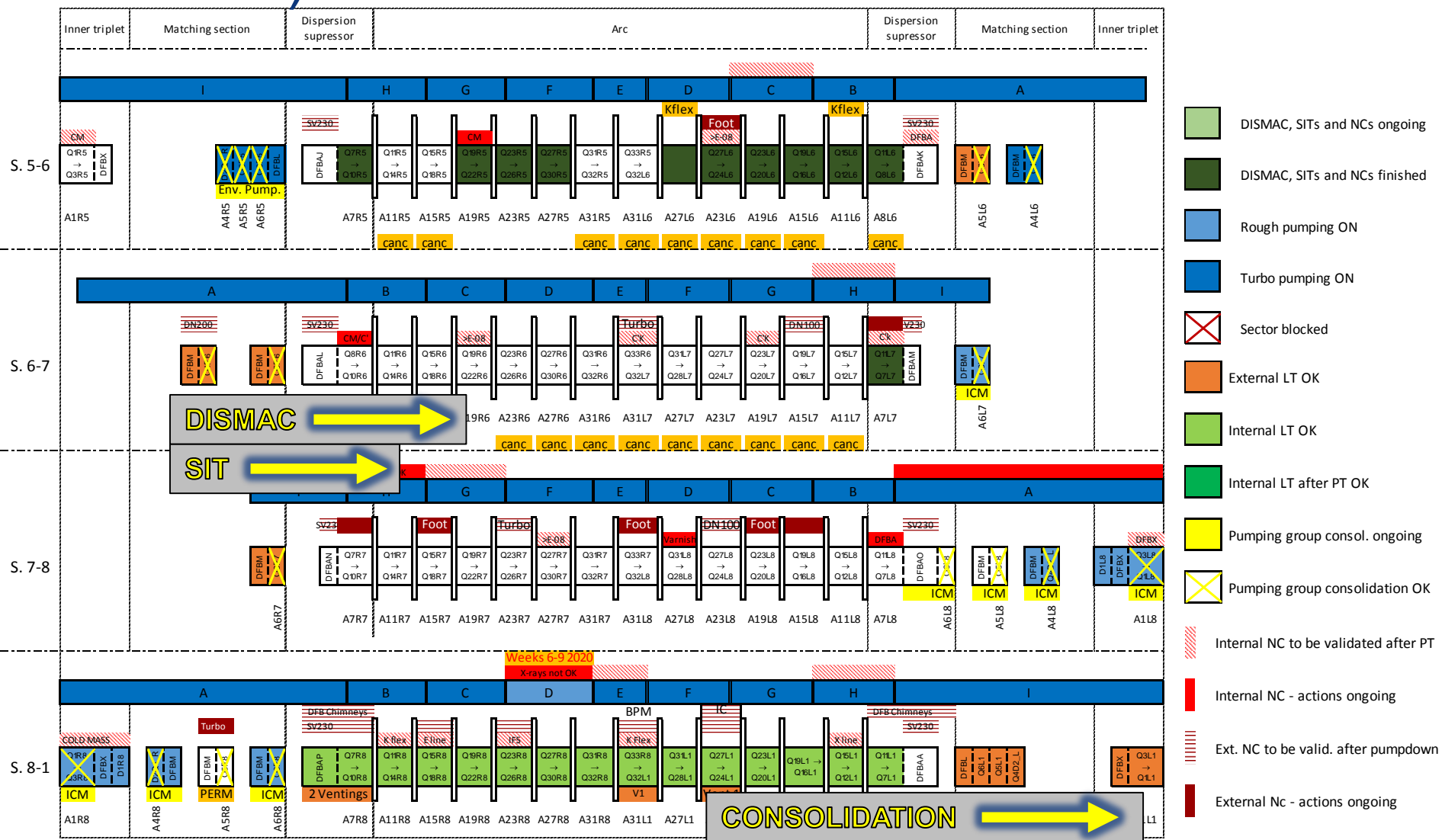
Performed activities during last 2 weeks

- Closure and preparations for global leak tests
 - Production and new tests for safety valves in A7L2 and A7R2 and s. 6-7 [Wim + Natalia + Jaime]
 - Resolution of O-ring NCs in s. 4-5 [Natalia + Wim]
- Turbo pumping group consolidation and others
 - Follow-up of pumping group consolidation at A4L6, A6L7, LSS pt. 5 and LSS pt. 8 [Wim + ICM]
 - Tests of new pumping group process control on 2 different locations for 2 different configurations (Q4L6 and Q31R6) [Wim + Jaime]

Tunnel activity status (sectors 1-2, 2-3, 3-4 and 4-5)



Tunnel activity status (sectors 5-6, 6-7, 7-8 and 8-1)



Planned activities for next 2 weeks

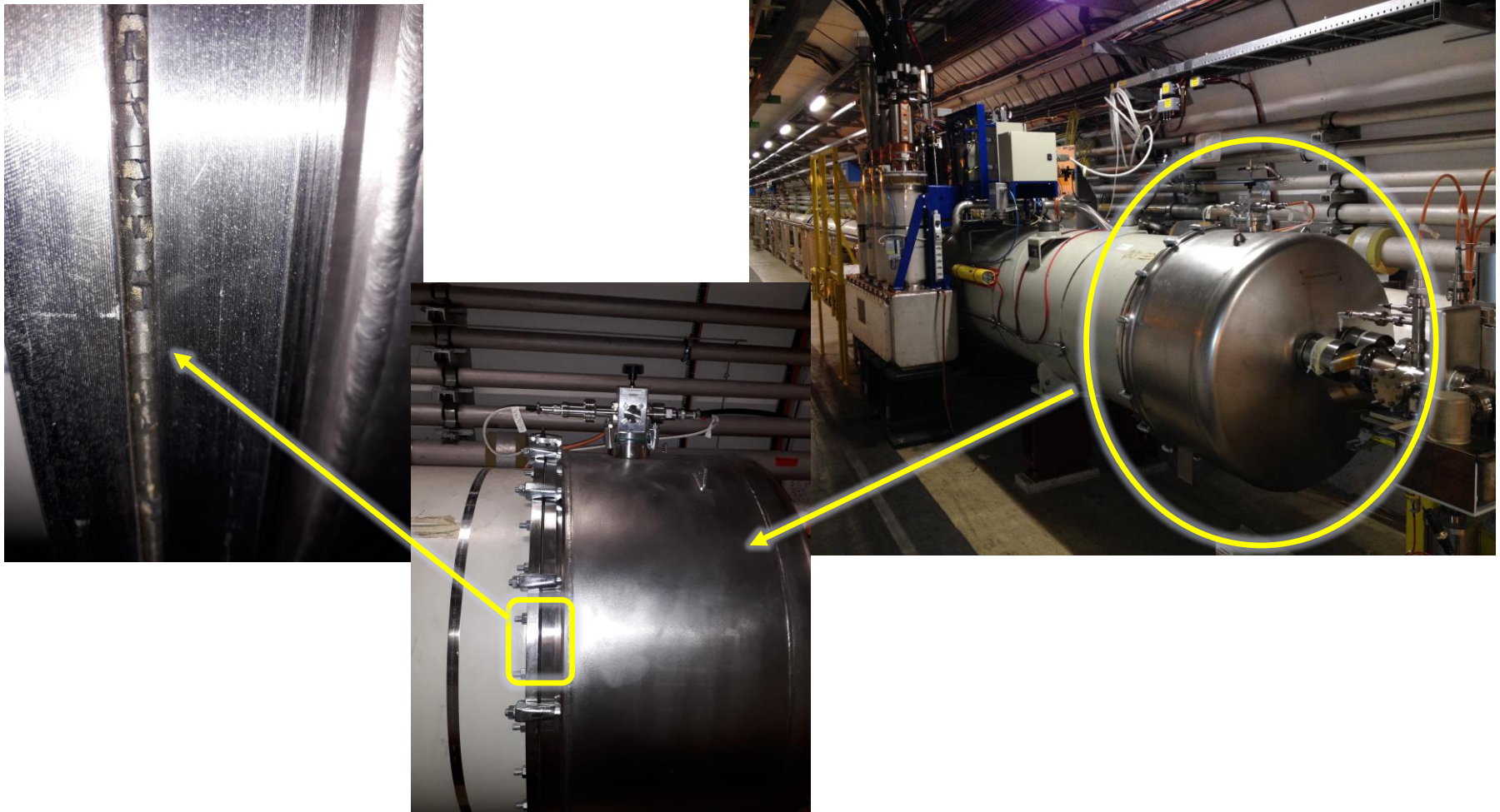
- Leak test activities
 - SIT
 - Finish leak tests linked to magnet exchanges around Q16L2 and connection cryostat at A7L2.M (~250 leak tests foreseen) [[AL4030 + Wim + Natalia](#)]
 - Leak tests in s. 6-7 [[AL4030 + Wim](#)]
 - DISMAC
 - Leak tests on A7R6, A11R6, A15R6 and A19R6, following validation to test only subsectors affected by SITs on cold mass volumes [[AL4030 + Natalia](#)]
- Closure and preparations for global leak tests
 - Envelope leak test of A15R1, A23L3, A11L3, A7R3, A27R3, A31R3, A23L4, A19L4, A15L4, A15R4, A19R4 and A23R4 [[AL4030 + Jaime](#)]
 - Repair of leaks and pump-down start at A19L4, A7L4, B5L4, A5L4, A5R4, A19R4, E45.Q, F45.Q and 2 remaining cavities [[AL4030 + Jaime](#)]
 - Pump-down start of ~8 vacuum subsectors in s. 4-5
 - Turbo pumping follow-up or swap of ~20 vacuum subsectors [[AL4030 + Jaime](#)]

Planned activities for next 2 weeks

- Closure and preparations for global leak tests
 - Implementation of safety valve configuration in A7L2 and A7R2 and s. 6-7 [Wim + Natalia + Jaime]
 - Resolution of O-ring NCs in s. 6-7 [Natalia + Wim]
- Turbo pumping group consolidation and others
 - Pumping group consolidation at LSS pt. 1 [Wim + AL4030]
 - Follow-up of pumping group consolidation at A6L7 and LSS pt. 8 [Wim + ICM]
 - Cryostat O-ring control of standalones at every LSS [Wim + AL4030]

Technical issues

- Damaged cryostat O-ring at Q6L4.M



AOB

- -

Thank you !



LS2

