

Report: #27

Activity: BVO LHC

G. Bregliozzi, E. Page, C. Vazquez & N. Zelko

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LS2



Room Temperature Area Activities

LSS2

Vacuum Sector	Intervention Description	Intervention Status	Layout Database	SCADA	NEXT
A6L2.B & R	Dismounted for the LIU TI2 (20m of machine) Exchange VMSIO RF insert	Pumping: leak detection,	Updated	-	NEG activation Ongoing
E5L2.B & R	Dismount and recondition for MKI 2B exchange	Not started	-	-	Waiting MKI surface tests in wk. 28-29
C5L2.B & R	Dismount and recondition for MKI 2B exchange		-	-	
A4L2.X & B4L2.X (New C4L2.X)	Modify the layout for new TDIS. Waiting final installation	Stand-by	Updated	Done	TDIS surface tests finished

TDIS Second bake-out: Ultimate pressure 3E-11 mbar

LSS4

Vacuum Sector	Intervention Description	Intervention Status	Layout Database	SCADA	Next
New F5 + E5L4.R	Sectorization for BWS.5L4.B2	Standby	Updated	Done	Postponed in January 2021
D5L4.R	BSRT mirror exchange BVO consolidation	Standby	-	-	
New C5 + B5L4.B	Sectorization for BGC	Standby	Updated	-	BGC acceptance tests wk.28-29
D5R4.B	- BSRT mirror exchange - BVO consolidation	Done	-	-	NEG Activation wk.34
New E5 + F5R4.B	Sectorization for BWS.5R4.B1	Done	Updated	Done	NEG Activation wk.34

DUMP LINES

Vacuum Sector	Intervention Description	Intervention Status	Layout Database	SCADA	Next
CTD62.DR	BTVDD screen OK - VPIC inspected – Waiting to upgrade dump windows	Stand-by	-	-	-
BTD62.DR	<ul style="list-style-type: none">- VPIZ consolidation- Pumping group consolidation (BVO+ICM) done	Leak detection & RGA scan ongoing	-	-	-
CTD68.DB	Waiting to upgrade dump windows	Stand-by	-	-	-

LSS7

Vacuum Sector	Due Date	Intervention Description	Intervention Status	Layout Database	SCADA	Next
A6L7.B	Na	TCP.P.C6L7.B1 and TCP.P.D6L7.B1	Not started	-	-	Waiting TCP.P
B5L7.B&R	Mar 2020	- MQWA replaced by TCAPM - TCSPM.6L7.B2	In progress	Done	-	Waiting TCSPM
A5L7.R	Na	TCSPM.E5L7.B2	Not started	Done	-	Waiting TCSPM
A4L7.B	Na	- TCSPM.D4L7.B1 + 2 new VPIAN / VPNCA	Not started	Done	To be updated	Waiting TCSPM
IP7.B&R	Na	- TCSPM.B4L7.B1 + TCSPM.B4R7.B2 + 4 new VPIAN / VPNCA	Not started	-	-	Waiting TCSPM
A4R7.R	Nov 2019	- TCSPM.D4R7.B2	In progress	Done	-	Waiting TCSPM
A5R7.B	Na	- TCSPM.E5R7.B1 + 1 new VPIAN / VPNCA	Not started	Done	To be updated	Waiting TCSPM
B5R7.B&R	Mar 2020	- MQWA replaced by TCAPM - TCSPM.6R7.B1	Not started	Done	-	Waiting TCSPM
A6R7.R	Mar 2020	TCP.P.C6R7.B2 and TCP.P.D6R7.B2	Done	-	-	-

LSS8

Vacuum Sector	Due Date	Intervention Description	Intervention Status	Layout Database	SCADA	Next
A5L8.R	Na	<ul style="list-style-type: none"> - Add a BPM on the internal line - VPS test with B. Henrist 	Magic box installed	Done	-	Waiting BPM acceptance tests
A4R8.X & B4R8.X (New C4R8.X)	Na	Modify the layout for new TDIS. Waiting final installation	Modify the layout for new TDIS. Waiting final installation	Updated	Done	Waiting second TDIS bakeout in October

ARC

overview

wk.25

ARC	Status	BVO Consolidation	Final Leak detection	Next activity	Left	Final pump down
12	Pump down	Done	Done	TCLD bake-out (wk. 28-29)	-	-
23	Pump down		Done	TCLD Installation wk.31 + Bakeout wk.36	-	-
34	Pump down		Done	-	-	-
45	Pump down		Done	-	-	-
56	Pump down		Done	-	-	-
67	Pump down		Done	Venting for 11T-TCLD activities (?)	<ul style="list-style-type: none"> LD new PIMs TCLD integration and bakeout 	-
78	Static vacuum		Foreseen - LD pumping ports (80% left)	-	-	-
81	Pump down		Done	-	-	-

MKB TD62 Problems

Problem of pressure spikes & ion pumps instabilities

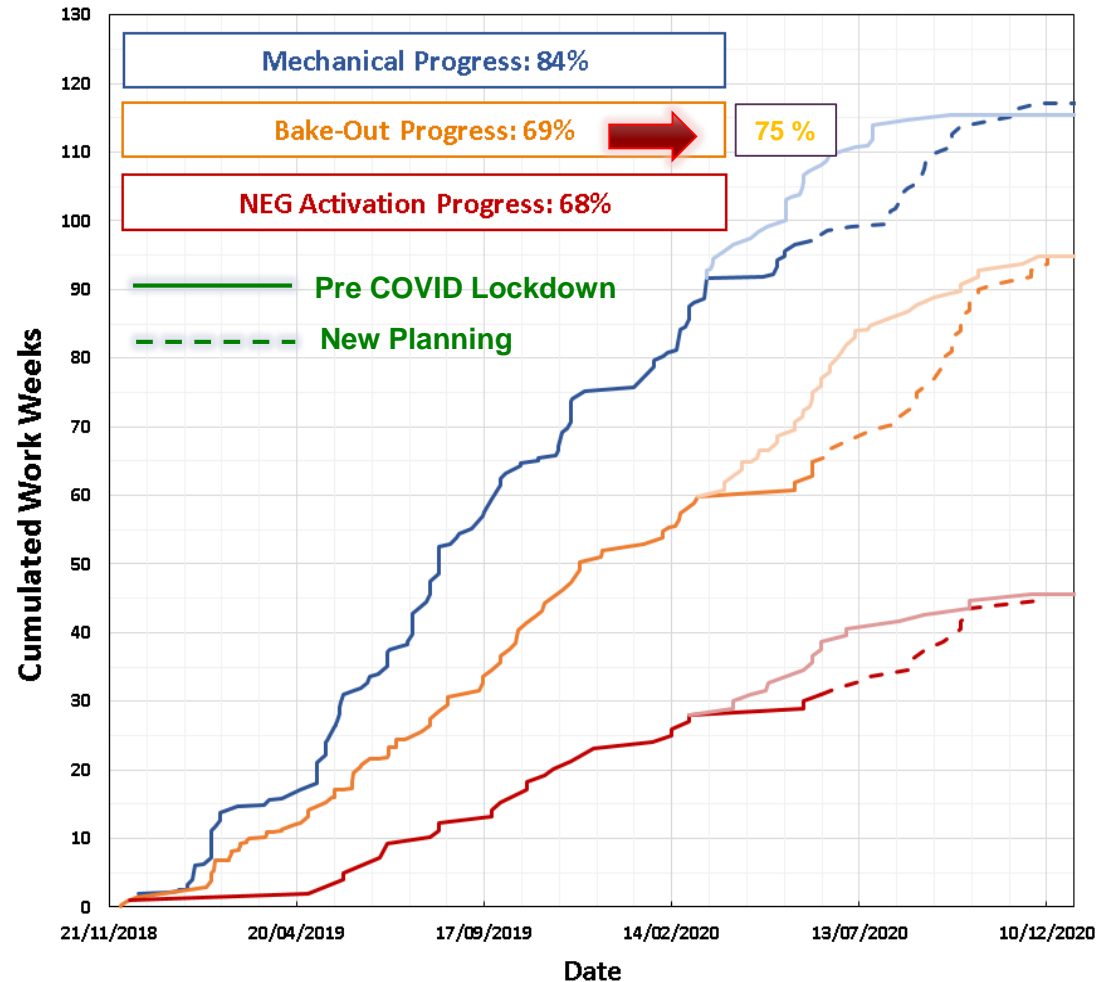
Very slow pressure decrease. Still some visible spikes and slightly signal of pressure increase



Two ion pumps were exchanged

Leak detection & RGA analysis ongoing. It should be finished this week.

Dashboard & resources availability



Small advancement on the bakeout installation thanks to the finalization of vacuum sector A6L2

Mechanical works should be analyzed and will increase of a couple of weeks time due to unexacted work on the MKB for leak hunting

Bakeout & NEG Activation Planning

NEG Activation	LSS	Vacuum Sector	First	Second	Support if needed	Wk.	Column1	Length
1	4	F5L4.R	Ivo	Giuseppe	Nicolas	17		25
2	6	A4L6.R & B	Ivo	Simone	Michele	19		180
3	4	F5R4.B	Simone	Ivo	Sergio	22		25
4	6	A4R6.R & B	Giuseppe	Michele	Julia	25	Consolidation	180
5	6	IP6.B	Michele	Orlando	Eric	25	Consolidation	155
6	8	A4L8.C	Cesar	Didier	Piotr	31	TANB	50
7	4	A6R4.R & B	Cesar	Piotr	Nicolas	32	Consolidation	60
8	8	C4R8C	Piotr	Didier	Chiara	32	TANB	36
9	1	A5L1.R + B4L1.B	Orlando	Michele	Josef	38	Wire collimators	26.2
10	2	A4R2.C	Eric	Josef	Giuseppe	39	TCLIA	50.2
11	6	IP6.R	Chiara	Josef	Jerome	41	BTVE Consolidation	155
12	8	A7R8.R & B	Jerome	Sergio	-	42	Ti8 Intervention	20
13	5	A6L5.R	Ivo	Piotr	Gregory	44	Totem	23
14	5	A7R5.B	Michele	Didier	-	46	Consolidation	22.5
15	5	A6R5.B & R	Orlando	Nicolas	-	47	Totem	56
16	5	A7L5.R	Nicolas			48	alignement	24
17	4	IP4.B + B5R4.R&B	Nicolas	Didier	Giuseppe	49	Cavity exchange	81.5
18	2	B4L2.C	Michele	Eric		6	TDIS adjacent	8.6
19	8	Ti8	Gregory	Michele	Didier	7	Ti8 Intervention	
20	8	A4R8	Michele	Didier	Gregory	7	TDIS adjacent	6.9
21	8	A6R8	Michele	Didier	Gregory	8	Ti8 Upgrade	119.2
22	3	B5L3.B	Ivo	Sergio		9	Sector valve exchange	79.1
23	7	A6R7.R	Didier	Ivo		10	TCPPM Upgrade	70.3
24	5	B4L5.R & B	Julien	Michele		24	Wire collimators upgrade	24.4
25	5	A5R5.R&B	Julien	Michele		25	Alignement LSS5	38
26	5	B4R5.B	Julien	Michele		24	Ion pumps Leak	22
27	2	A6L2.R & B	Cesar	Karl		27	Ti2 Intervention	116.8
28	ARC12	TCLD.11L2.B1	Cesar	Karl		28	TCLD	1
29	ARC23	TCLD.11R2.B1	Cesar	Karl		33-34	TCLD	1
30	4	C5L4.B + B5L4.B	Orlando	Alex	Giuseppe	???	BGC	28.6
31	7	IP7.R & B	Didier	Julien		???	TCSPM	165.8
32	4	D5L4.R	Orlando	Alex	Giuseppe	???	BSRT & BWS Sectorization	21.5
33	4	D5R4.B	Orlando	Alex		???	BSRT & BWS Sectorization	21.5
34	7	B5R7.B&R + A4R7.R	Eric	Ivo		???	MQW Upgrade & TCSPM Upgarde	118.1
35	7	A5L7.R & A5R7.B	Didier	Julien		???	TCSPM upgrade	58.4
36	2	MKI Exchange	Eric	Alex		???	HL-LHC MKI Upgrade	4.5
37	7	B5L7.R & B + A4L7.B	Eric	Ivo		???	MQW Upgrade & TCSPM Upgarde	118.1
38	7	A6L7.B	Didier	Ivo		???	TCPPM Upgrade	69.6
39	ARC67	TCLD.8L7.B2	Cesar	Karl		???	TCLD	1

Small delay

Thank you !



LS2

