LS2 planning meeting A.Tauro



LS2 master plan (v34)



3/12/18 2/1/2/18 15 2/1/2/18 5/3/19 52 6/3/19 13/3/20 268 7/1/19 27/3/20 320 16/3/20 1/6/20 56 2/6/20 13/7/20 30 2/6/20 13/7/20 30 14/7/20 5/10/20 60 6/10/20 12/10/20 56 13/10/20 7/12/20 40 8/12/20 30/4/21 104 3/5/21 7/5/21 5 10/5/21 2/7/21 40	GANT	roject	5			2021	
24/12/18 5/3/19 52 6/3/19 13/3/20 268 7/1/19 27/3/20 320 16/3/20 1/6/20 56 2/6/20 13/7/20 30 14/7/20 5/10/20 60 6/10/20 12/10/20 5 13/10/20 7/12/20 40 8/12/20 30/4/21 104 3/5/21 7/5/21 5 10/5/21 2/7/21 40	Begin date	End date	Dur	Dec Jan Feb Mar Apr May Jun Jul	Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul	Aug Sep Oct Nov Dec Jan Feb Mar Apr Ma	ay Jun Jul Aug Sep Oct Nov Dec
6/3/19 13/3/20 268 7/1/19 27/3/20 320 16/3/20 1/6/20 56 2/6/20 13/7/20 30 14/7/20 5/10/20 60 6/10/20 12/10/20 5 13/10/20 7/12/20 40 8/12/20 30/4/21 104 3/5/21 7/5/21 5 10/5/21 2/7/21 40	3/12/18	21/12/18	15	Open L3 doors	I		
7/1/19 27/3/20 320 16/3/20 1/6/20 56 16/3/20 1/6/20 56 2/6/20 13/7/20 30 14/7/20 5/10/20 60 6/10/20 12/10/20 5 13/10/20 7/12/20 40 8/12/20 30/4/21 104 3/5/21 7/5/21 5 10/5/21 2/7/21 40	24/12/18	5/3/19	52	Bring TPC to SXL2			
16/3/20 1/6/20 56 2/6/20 13/7/20 30 14/7/20 5/10/20 60 6/10/20 12/10/20 5 13/10/20 7/12/20 40 8/12/20 30/4/21 104 3/5/21 7/5/21 5 10/5/21 2/7/21 40	6/3/19	13/3/20	268		TPC upgrade		
2/6/20 13/7/20 30 14/7/20 5/10/20 60 6/10/20 12/10/20 5 13/10/20 7/12/20 40 8/12/20 30/4/21 104 3/5/21 7/5/21 5 10/5/21 2/7/21 40	7/1/19	27/3/20	320		Work on services		
14/7/20 5/10/20 60 6/10/20 12/10/20 5 13/10/20 7/12/20 40 8/12/20 30/4/21 104 3/5/21 7/5/21 5 10/5/21 2/7/21 40	16/3/20	1/6/20	56		Reinstall	TPC	
6/10/20 12/10/20 S 13/10/20 7/12/20 40 8/12/20 30/4/21 104 3/5/21 7/5/21 S 10/5/21 2/7/21 40	2/6/20	13/7/20	30		I (1997)	Install FIT-C and MFT	
13/10/20 7/12/20 40 8/12/20 30/4/21 104 3/5/21 7/5/21 5 10/5/21 2/7/21 40	14/7/20	5/10/20	60			Install ITS	
8/12/20 30/4/21 104 3/5/21 7/5/21 5 10/5/21 2/7/21 40	6/10/20	12/10/20	5			FIT-A	
3/5/21 7/5/21 5 10/5/21 2/7/21 40	13/10/20	7/12/20	40			ITS-MFT-FIT commissioning	
10/5/21 2/7/21 40 Machine commissionig with bear	8/12/20	30/4/21	104				ALICE Global Commissioning
	3/5/21	7/5/21	5			Ū,	Machine checkout (no UX access)
5/7/21 5/7/21 0 First stable beams	10/5/21	2/7/21	40			ľ	Machine commissionig with bear
	5/7/21	5/7/21	0				🕹 First stable beams



Key dates



Activity	Date
Move TPC to SX2	16 Mar 2020
Install TPC (parking position)	17 Mar – 9 Apr
Install cage and central beampipe	14 Apr – 5 May
Move TPC to IP	6-7 May
Install Miniframe	28-29 May
FIT-C & MFT installation and checks	2 Jun – 13 Jul
ITS installation and checks	14 Jul – 5 Oct
FDD-C installation	First half Aug*
FDD-A installation	1-10 Sep
FIT-A installation	6-12 Oct
ITS & MFT commissioning time	8w
ALICE global commissioning time	21w
End of LS2 – stop UX25 access	1 May 2021
Start commissioning with beam – ALICE in super-safe	10 May 2021

* we need to redo tightness UX-RB26 before w35 (start cool down S23)



TPC & miniframe reinstallation sequence

ALICE

		2020	
		February March April May June July August	T S
Begin date	End date		
28/1/20	28/1/20	Fix DF base to concrete blocks (chemical)	Jan 5 th - Mar 13 th - complete TPC, cage insertion test in SXL2
28/1/20	28/1/20	Displace scaffolding inside L3 from C/I to C/O	
29/1/20	29/1/20	Install scaffolding to access Delphi Frame feet	cleanroom, prepare for TPC transportation, TOF and HMPID
3/2/20	7/2/20	TPC: prepare IROC exchange (open CLR roof, remove scaffolding, install tooling)	
11/2/20 24/2/20	21/2/20 25/2/20	TPC: cage insertion test in CLR (open roof, install nacelles and blocks)	_ activities in the cavern
16/3/20	16/3/20	TPC: adjust TPC position inside DF	Mar 16 th - transportation TPC to SX2
17/3/20	17/3/20	h Bring TPC from cleanroom to SX2 (Frederici truck)	
17/3/20	17/3/20	Remove MNF scaffolding interfering with DF (tbc)	-
17/3/20	17/3/20	Displace ALTEAD cage (SX2)	-
17/3/20	17/3/20	Remove /reinstall PX24 duct	-
18/3/20	18/3/20	h Transport TPC from low-beta to the DF base (in front of L3)	-
19/3/20	25/3/20	Align DF and install transfer rails (TRD people needed)	Mar 16 th - Apr 9 th - reinstall TPC
26/3/20	26/3/20	Remove scaffolding inside baby-frame	
27/3/20	30/3/20	Move TPC to IP (remove onega platform)	TPC moved to IP, adjusted and put back to parking position
31/3/20	1/4/20	TPC survey and possible adjustment	-
31/3/20	1/4/20	h Install ITS table	-
2/4/20	6/4/20	Move TPC to parking position and reinstall omega platform	-
7/4/20	7/4/20	h Install scaffolding inside baby frame	-
7/4/20	8/4/20	Fix A-side beampipe support to TPC (integration test)	
8/4/20	8/4/20	Install ITS temporary rails	-]
10/4/20	13/4/20	Easter holidays	
14/4/20	20/4/20	Install cage and central beampipe	
21/4/20	24/4/20	Connect and align beampipe	Apr 14 th - May 5 th - install cage and central beampipe
1/5/20	1/5/20	Labour day	
27/4/20	5/5/20	Bakeout central beampipe	
6/5/20	7/5/20	h Move TPC to IP ind align it (remove omega and scaffolding)	May 6 th - 7 th - move TPC to IP - start connection TPC to services
8/5/20	18/5/20	h Install A-side beampipe support, remove temp rails, align cag	
19/5/20	19/5/20	Install scaffolding inside baby-frame	_
20/5/20	20/5/20	h Remove transfer rails	_
21/5/20	21/5/20	Remove DF (along with ITS table)	
21/5/20	21/5/20	Ascension	May 8 th - May 27 th - prepare miniframe installation
22/5/20	22/5/20	Remove DF base and blocks	
25/5/20	25/5/20	h Install miniframe rails	—
26/5/20	27/5/20	Install laser platform	
25/5/20	25/5/20	Reinstall TPC VHV box and laser pipe inside baby-frame	
28/5/20	29/5/20	Install miniframe	May 28 th - 29 th - reinstall miniframe



TPC upgrade sequence

			2020														
proje Begin date	End date	D	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11 8/3/20	Week 12 15/3/20	Week 13	Week 14	Week 15	Week 16	Week 17 19/4/20	- W 24
20/1/20	22/1/20	3	13/1/10		3kV mainter					013120	1313110	LL J J LU	1010110	214120	1114120	1314110	-
23/1/20	26/1/20	4	, T	LV n	twork main	enance (ex	p.network)	- limited acc	cess P2								
27/1/20	27/1/20	1		AU	G test 2020 -	no access	P2										
23/1/20	3/2/20	12	<u> </u>		On 0	Side: Secto	or tests, 2 s	ectors at tim	ne (cont)								
28/1/20	31/1/20	4			Prepare 6	5 sectors for	^r IROC exch	ange (A01, A	402, A03, A	06, A07, A08	3)						
4/2/20	4/2/20	1			no 🖣	en roof: Pre	pare for IR	OC exchang	e, remove s	caffolding a	nd close ro	of					
4/2/20	6/2/20	3	1		i tanı	Replace ga	s mixture v	vith air									
5/2/20	5/2/20	1				Clean cleanr	oom										
7/2/20	7/2/20	1				HROC rep	lacement: A	402, A07									
10/2/20	21/2/20	10				r E		🗕 Fill TPC w	rith Ne CO2	N2							
10/2/20	10/2/20	1				Dpe	n roof: Rem	nove tooling.	Put 2 nace	les on A sid	e						
11/2/20	21/2/20	9						Reinstall	FEC frames,	FECs, servi	ces in A06, /	A07, A08					
24/2/20	3/3/20	7							Te	st A01, A02	A03, A06, /	A07, A08					
4/3/20	4/3/20	1							Ľ C	isconnect g	as system						
5/3/20	6/3/20	2								Finalize:	out covers,	cooling con	nections, te	st for leaks,	secure fibe	rs and cable	es
9/3/20	13/3/20	5				_				Ľ.	Continge	ncy					
11/2/20	21/2/20	9				Ť		HTS insert	ion test								
24/2/20	25/2/20	2						Ad	just TPC po	sition							





TPC schedule v41

TPC upgrade sequence





Remove Services and FEE (outside cleanroom)



Uninstall MWPC ROC



Install GEM ROC



Install new FEC + test



Ready for transportation to SX2



TPC schedule v41

31.1.2020

Cage will be inserted from A-side, using ITS table and final rails

• Survey needed

٠

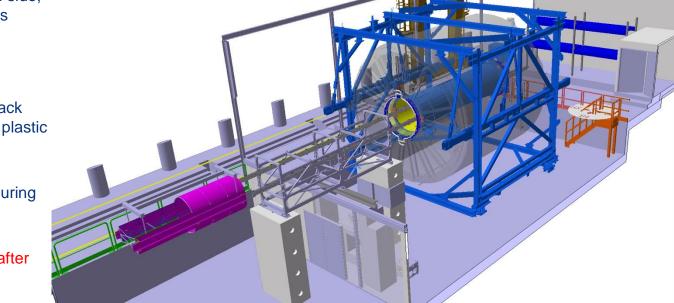
•

- Open cleanroom roof and back wall – close cleanroom with plastic sheet
- Allow TPC laser operation during C-side test
- Test planned in weeks 7-8, after TPC ROC exchange

31.1.2020

Cage insertion test

Goal: test cage insertion and interface with TPC





ITS and MFT barrels insertion test (MNF)







Copper cables (EN-EA)

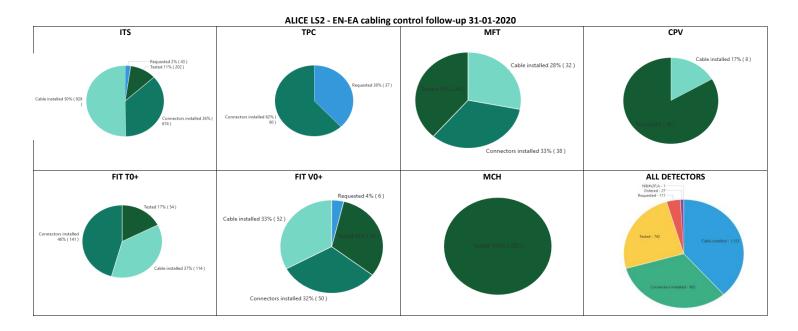


202	0																									
Veek 1	Week 2 Week	3 Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28 W
9/12/19		20 19/1/20	26/1/20	2/2/20	9/2/20	16/2/20	23/2/20	1/3/20	8/3/20	15/3/20	22/3/20	29/3/20	5/4/20	12/4/20	19/4/20	26/4/20	3/5/20	10/5/20	17/5/20	24/5/20	31/5/20	7/6/20			28/6/20	5/7/20 1
	Xmas break	ing A-side + b	and former (-lasa Alaidu		-	-	-		-	-		-		-	-			-			-		-	-	
_	Clean		PC connector			A)		-				-			-			-						-		_
-	_	1		C connecto		- ~,	-	-		-	-				-		-		-					-		
			- +		oles test (cal	les betwee	n PPO and	TPC-A)																		
	-	_						(PPO and PF	21)	_	-								_							
_								MNF: ITS gab	oles test (b	etween PP0	and PP1)															
_						h MN	F: MFT conr	nectors (PPO,	cables fror	n PP2)																
						 _	MNF: MFT c	onnectors (P	P2)																	
										MNF: MFT c	ables test (c	ables betw	een PPO and	PP2)												
						Ľ.	MNF: FIT	l connectors	(PPO, cable	s from FIT	A)															
							MN MN	IF: FIT=A c on																		
											t (cables be	tween PP0	and FIT-A)													
									MNF: ITS	DSS connec																
											MNF: BC	M cables be	tween PP0	and BCM bo	x											
																					4		nectors (cabl	_		_
	_	_			_	_	_	_									_		_			FI	T cables test	(cables fro	om C-side)	
	_			_					-				Second o	abling camp	aign											_
	-								M cables	s from CR4	- D DO													-		_
	-	-			-	-	-				A06 and C1	c	-	-	-	-		-	-	-	-	-	-	-	-	
	_	-				-					ables betwe		I PPO		-									-		-
_	_										FDD C32 to			s												
	_								BCN	M CR4 conn		e occesso	signar cabit													
_	-							-		DD CR4 con									-							
-									_		HTS DSS o	onnectors i	n rack A03													
											ћ тро	connector	in A06 and	C15												
												BCM conn	ectors in PP	0												
													FDD conne	ctors												
													ZEM con	nectors PP0												
																								Wiener L	VPS cooling	consolidation



Copper cables (EN-EA)





Progress pulling: 95% Progress connectors: 57% Progress test: 25%



Optical fibers (EN-EL)



Description		De	ember			January 2020				Febuary			
Description		9 12 12 12 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	16 17 18 18 19 20 20 21	0 0 4 23	7 8 9 10 11 12 13 13 15 15	10 15 15 15 15 15 15 15 15 15 15 15 15 15	1 22 23 23 28 28 28 28 28 28 28 28 28 28 28 28 28	38885	- N N 4 N 0 M 0	9 11 12 13 14 16 16	21 19 19 19 19 19 19 19 19 19 19 19 19 19	2 2 2 2 2 2	β - 01
		S50	S51	551 S01	S02 S	03	S04	S05	S06	S07	S08	S09	
	POSE												
TPC-C & TOF trunk (FASS O-Side) (10+70)	TELINING												
	MATERIEL												
	POSE												
60 TRUNK 144 OF 27m (SURFACE)	TERMINATION												
	MATERIEL												
	POSE												
MFT trunk (FASS O-Side) (50)	TERMINATION												
	MATERIEL												
INSTALLATION D'UN DUCT ET	POSE												
SOUFFLAGE D'UN CÂBLE	TERMINATION												
	MATERIEL												



Miniframe schedule



2020	#13655					
January	February	March	April	Мау	June	July
Xmas break						
+	ITS transportation frame ready					
	Insta	all ITS/MFT PP1-PP2 mockup	services and cable trays (Mimm	o, Antoine)		
L L	ITS insertion te	st				
	Rework PP1 cooling lines ((Philippe)				
	Cut ITS crates inox line	s				
	rocure and install ITS	5 crates cooling hoses				
Install B	IR and BIB (Lee, Pieter)					
Ins	tall beampipe support box (Lee, Pie	eter)				
	Install BCM bo	DX				
	👖 Install FIT sig	gnal patch panel				
	🚺 Install ITS m	noveable access platform				
	Install led li	ghts inside Miniframe (Philip	pe)			
		Install ITS/MFT vent	ilation pipe (PP1) (Engie)			
				220V plugs inside Miniframe (El		
_				ange cables and optical fibers i	nside miniframe	
_			Modify cab	le supports miniframe (Cedric)		
_					3D scan (Kevin)	
						ladder after MNF installation)
_					ll TPC cooling hoses Minifram	
				🖞 Rein	istall cable support inside Min	
					Install ITS PP1-PP2 cable	
_					Install ITS PP1 sub-	racks
					Install miniframe	



EN-EL interventions



- 18kV, 3.3kV and LV network maintenance: 20-24 Jan 2020 Done
- AUG on Monday 27 January 2020 Done
- Auto transfer test: 27-29 Apr 2020
- Test secours (10 min at 6:00 AM): 26 May 2020



Racks status



- Racks currently powered on:
 - HMPID racks
 - PHOS-CPV: A16, A17
 - CTP: C24, C25 (CTP) (and VME crates on)
 - MCH: C08, C10, C37, C39
 - TOF: O03, O04, O05, O30, O31, O32, I03, I04, I05, I30, I31, I32
 - TRD: O26, O27, O28, O29, C16-18, I08, O08, C19, C29
 - DCal: A14

31.1.2020

EN-CV interventions



Big maintenance:

- SF: from Nov 2019 to mid Jan 2020. NO impact on ALICE as both magnets will be OFF done
- UW: stop UX mixed water for 2 days in week 41/2019 (October) Tue 8 and Wed 9 Oct done
- * SU: various small perturbations + 1 day stop all cooling UX + 1 day stop all cooling SXL2 in week 16/2020 (April).

Small maintenance:

- UW: from mid Aug 2020 to mid Sep 2020. Stop mixed water UX for 1 day in week 37/2020 (September).
- SF+SU: weeks 45-47/2020: cleaning towers (stop SF 1 week) + 1 day stop all cooling UX.
- Renovation transformer UIAC220 in w10/2020 → transparent but need to reduce mixed-water consumption

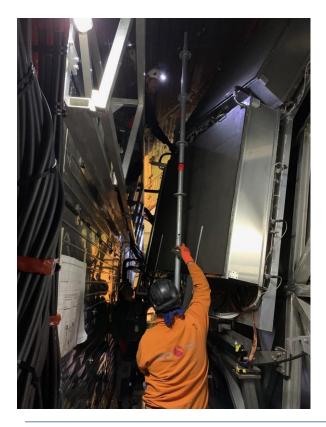
Stop demineralized water from 17 to 20 December 2019

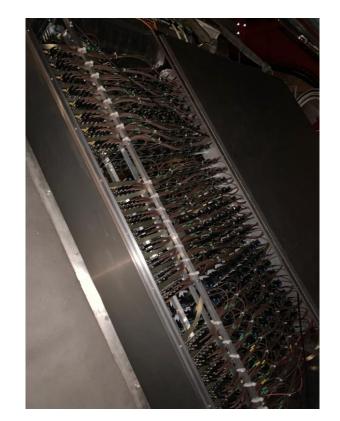
• Ventilation:

- SG2 (2019): w7/2019
- SG2 (2020): Tue-Wed w3/2020 DONE
- Gas extraction: w8/2019
- UX25 cavern: w2/2020
- MCH and MTG: Mon-Thu w3/2020 DONE
- L3: to be done
- ITS: → will be done before end June
- Raw water:
 - Test after Apr 2019. Short interruption (1 day), can be used tap water during the test.



HMPID M3 opening





M3 cover shifted right wards 40cm

Intervention on electronics next Monday

M4 opening next week



ALICE

Muon work







Other tests foreseen in 2020-21



2020:

- LASS functional test: no access to UX25 on Monday 3 Aug 2020 whole day (weekend 8-9 Aug as contingency)
- LASS global verification of entire LHC: 1 day no access to UX25 (date tbc)
- BIW test: no access underground on 5 and 6 Oct 2020 from 18:00 to 00:00

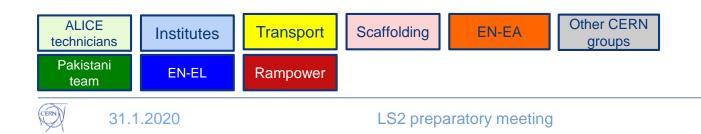
2021:

- DSO test: no access to UX25 on 8 and 9 Mar 2021 (tbc)
- LHC sector test (beam through ALICE): no access to UX25 from 26 to 29 March 2021





Day-by-day sequence w4

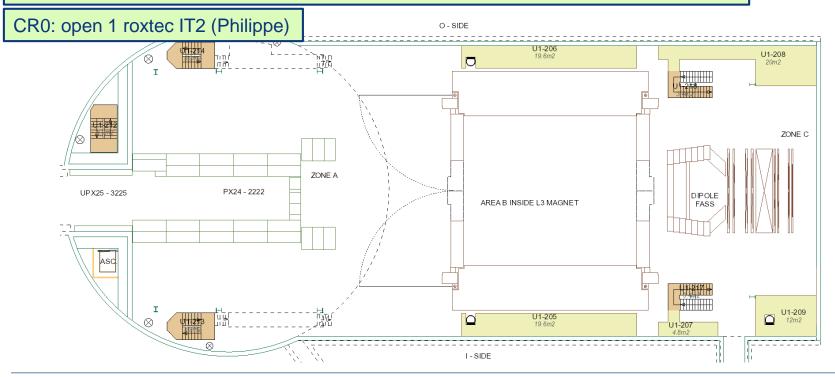


UX25 activities w4 – Mon 20 Jan 2020



EN-EL: 18kV, 3.3kV and LV network maintenance → NO access to P2

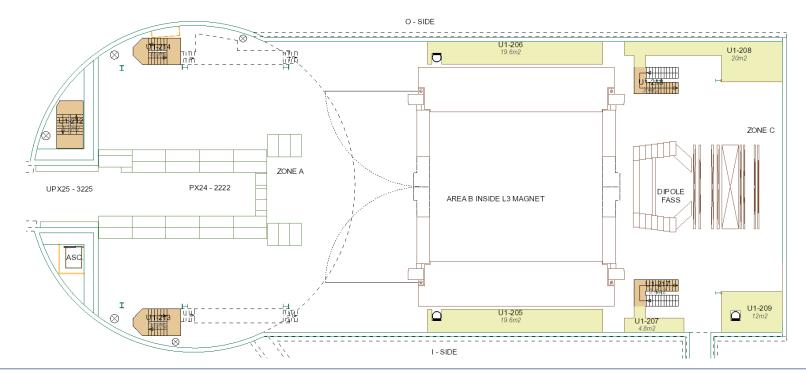
CR3: install TA valves, redo flexible hoses distribution (Philippe + Bruno) – whole week

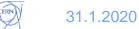




UX25 activities w4 – Tue 21 Jan 2020



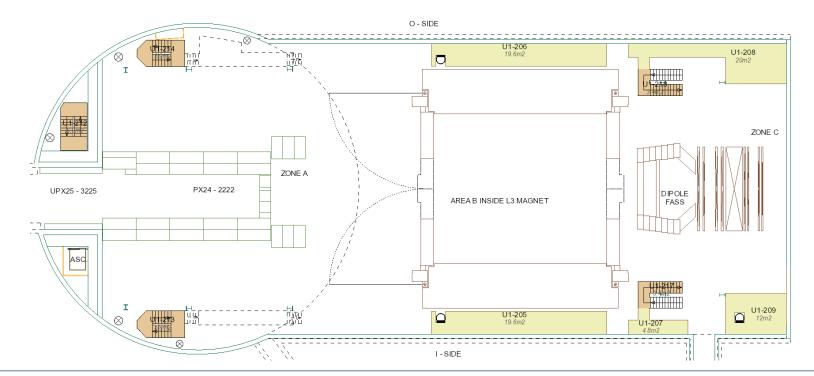




UX25 activities w4 – Wed 22 Jan 2020



EN-EL: 18kV, 3.3kV and LV network maintenance \rightarrow NO access to P2



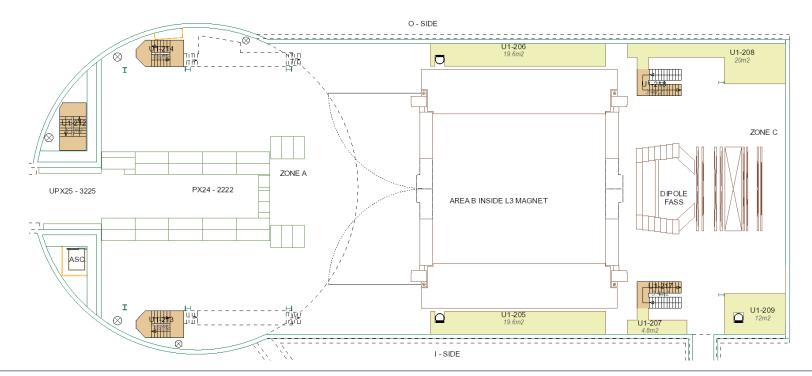


:ÉRN

UX25 activities w4 – Thu 23 Jan 2020



EN-EL: 18kV, 3.3kV and LV network maintenance \rightarrow NO access to P2



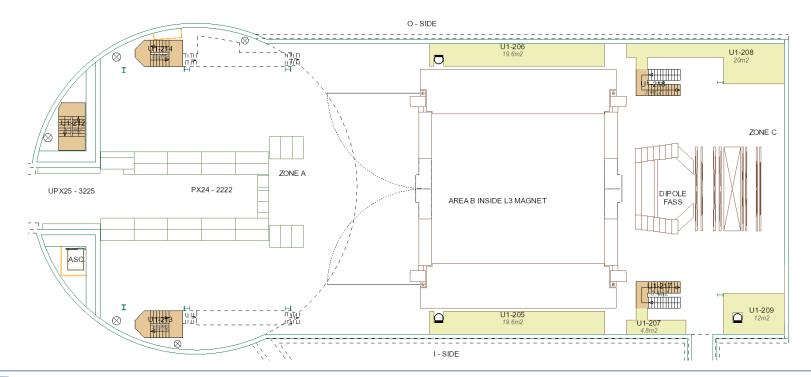


:ÉRN

UX25 activities w4 – Fri 24 Jan 2020



EN-EL: 18kV, 3.3kV and LV network maintenance \rightarrow NO access to P2

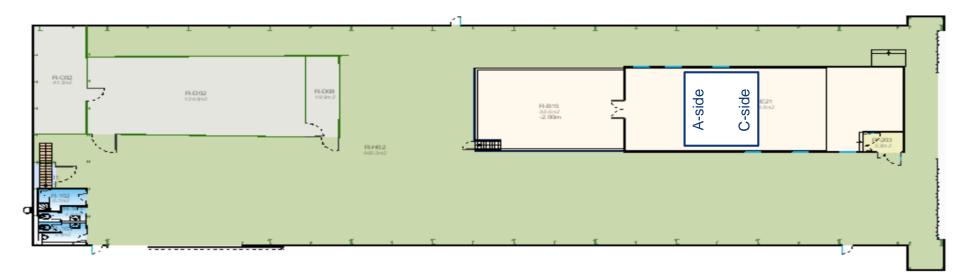




:ÉRN

SXL2 activities w4 – Mon 20 Jan 2020

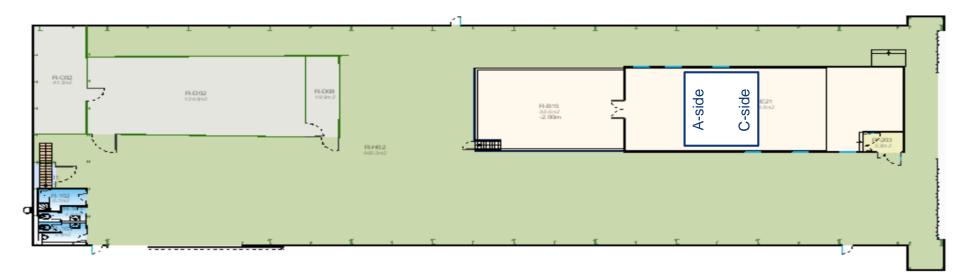






SXL2 activities w4 – Tue 21 Jan 2020

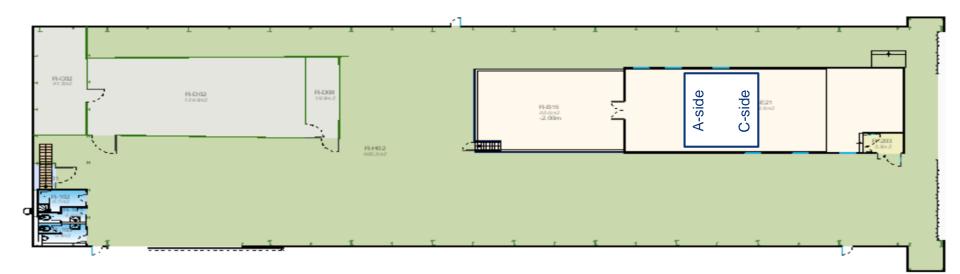






SXL2 activities w4 – Wed 22 Jan 2020

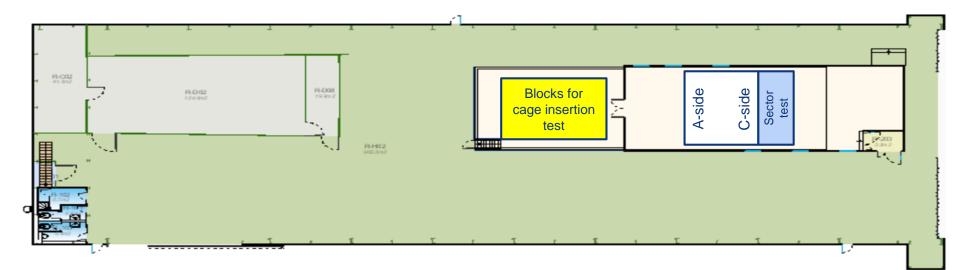






SXL2 activities w4 – Thu 23 Jan 2020

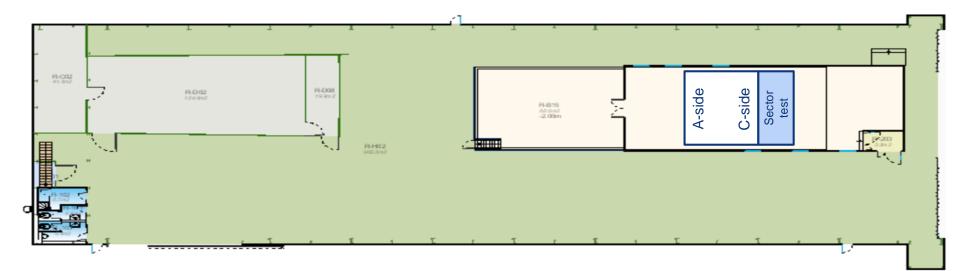






SXL2 activities w4 – Fri 24 Jan 2020

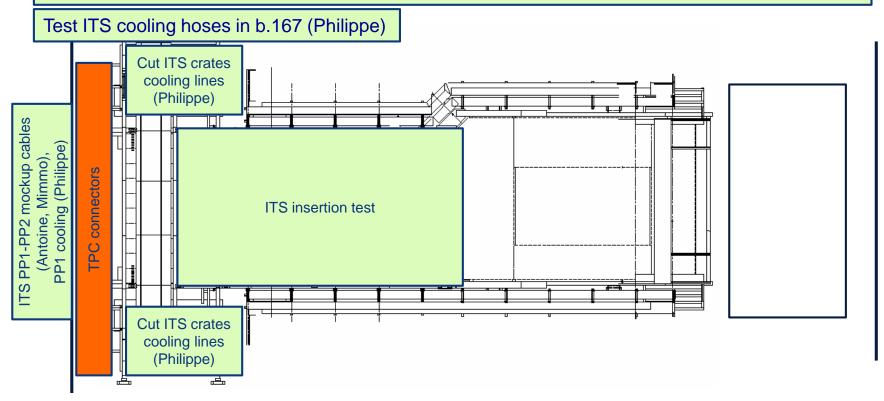






Miniframe activities w4 – Mon 20 Jan 2020

Produce and install steps to protect FO boxes; finish ITS rack supports; build ITS rack trap (Cedric)

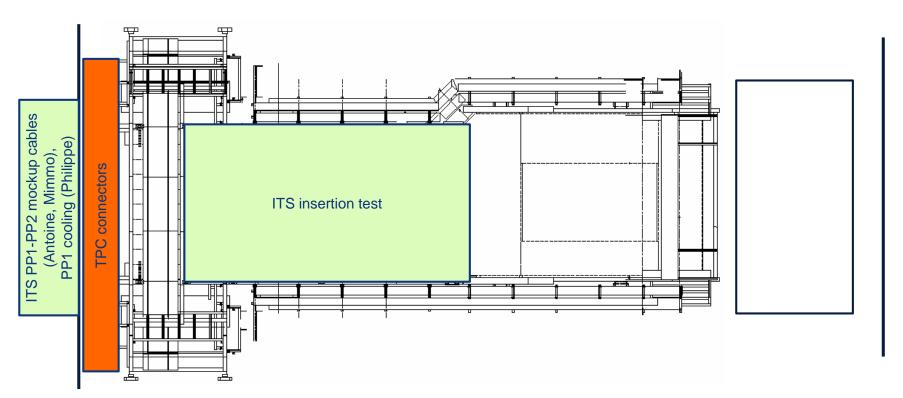




ALICE

Miniframe activities w4 – Tue 21 Jan 2020

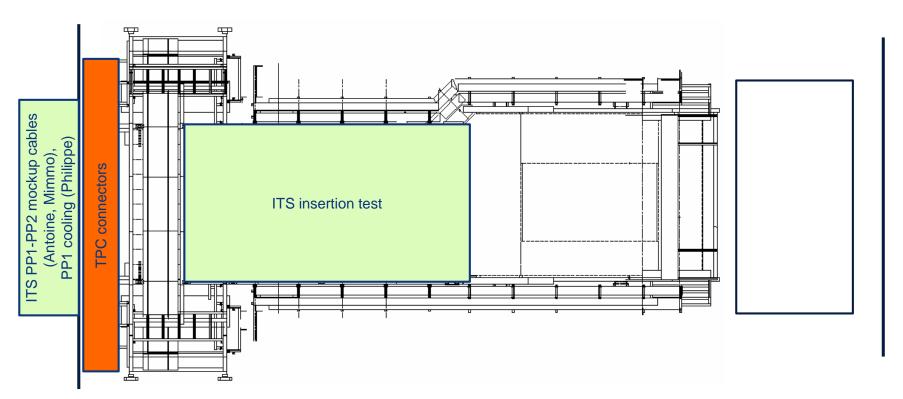






Miniframe activities w4 – Wed 22 Jan 2020

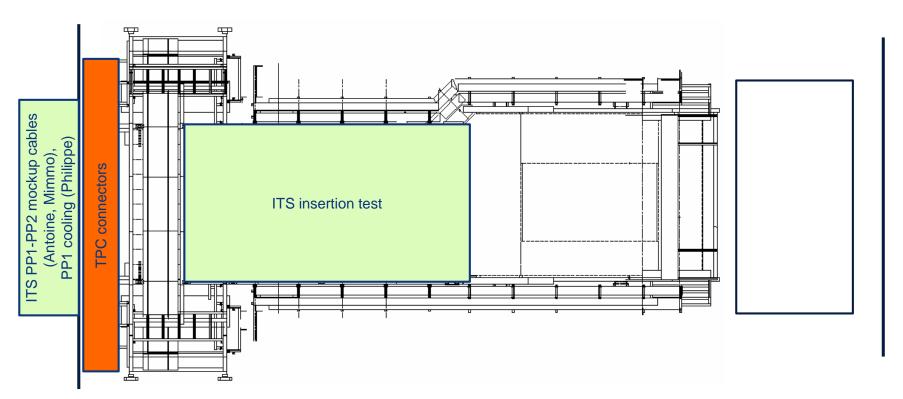






Miniframe activities w4 – Thu 23 Jan 2020

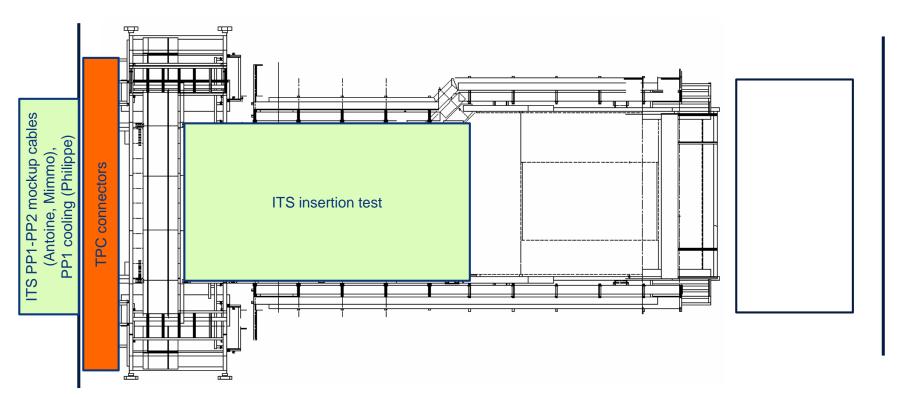






Miniframe activities w4 - Fri 24 Jan 2020

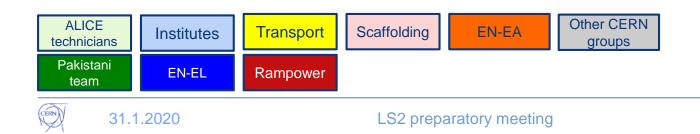




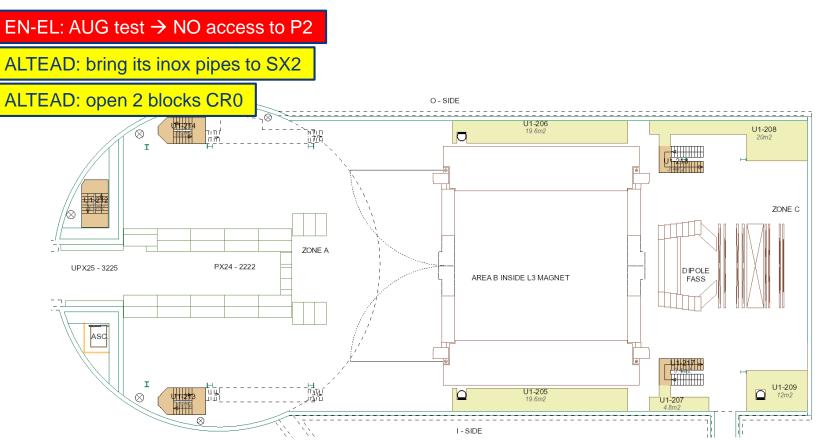




Day-by-day sequence w5



UX25 activities w5 – Mon 27 Jan 2020





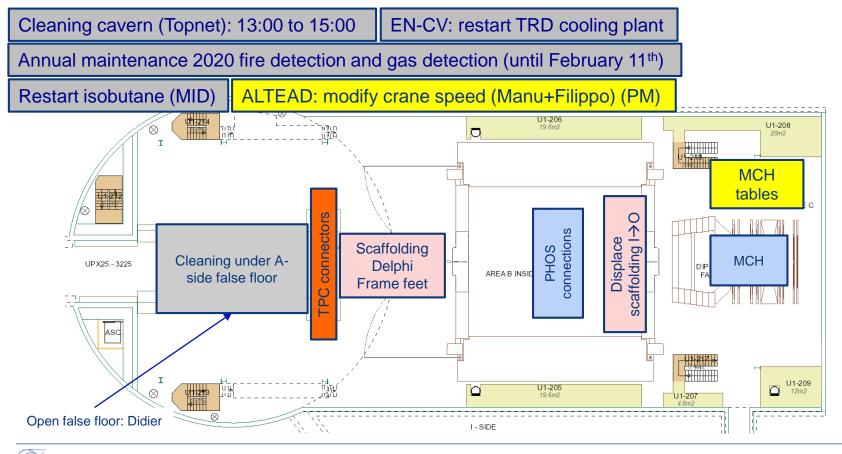
ICE

UX25 activities w5 – Tue 28 Jan 2020

:ÉRN

31.1.2020





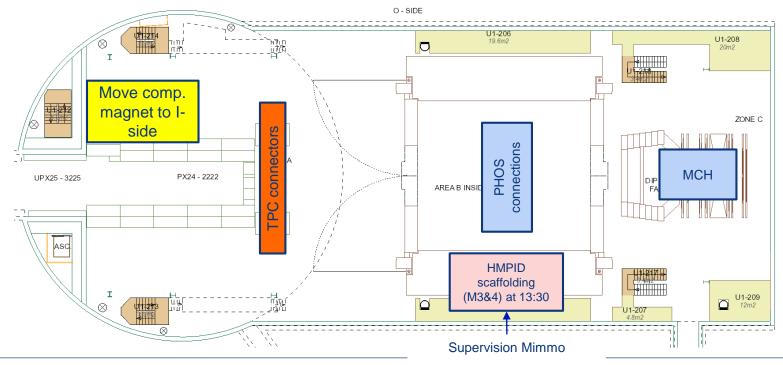
UX25 activities w5 – Wed 29 Jan 2020

ALICE

CR0: close 2 blocks (ALTEAD)

CR0: close 1 roxtec IT2 (Philippe)

BE-ICS: update SNIFFER security patches and password (ARC)



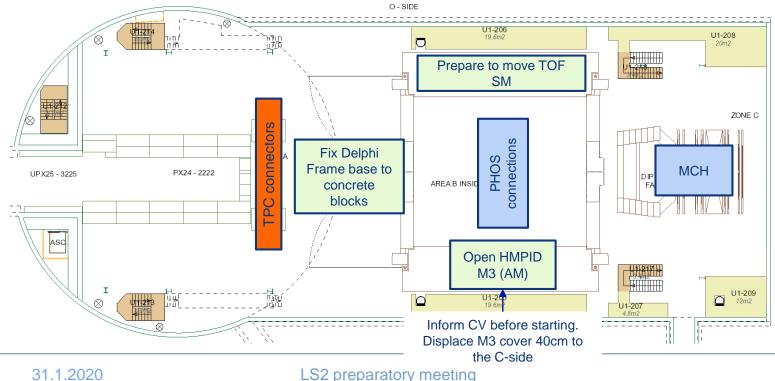


CÉRN

UX25 activities w5 – Thu 30 Jan 2020

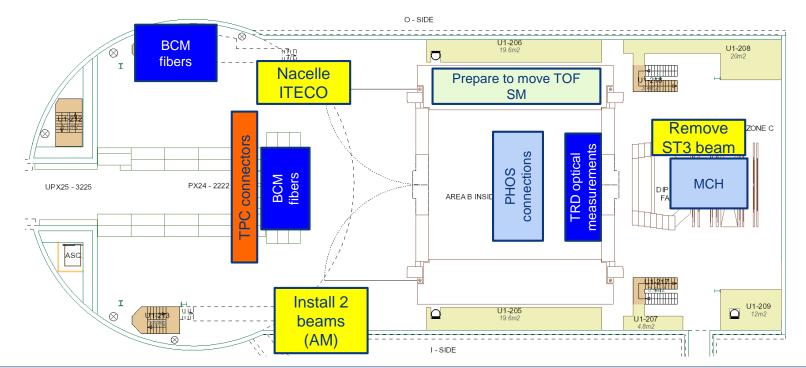
CERN





UX25 activities w5 – Fri 31 Jan 2020



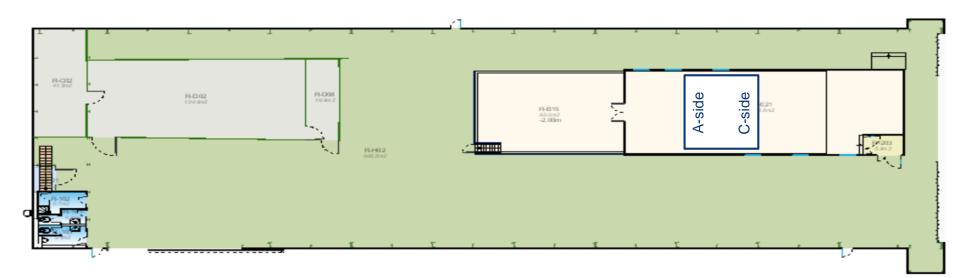




SXL2 activities w5 – Mon 27 Jan 2020



EN-EL: AUG test \rightarrow NO access to P2





SXL2 activities w5 – Tue 28 Jan 2020



Preparation TPC tool for the ROC exchange (prepare fences, Evgeny, Samuel and Yannick)

ALTEAD+TPC: dry installation TPC infrastructure

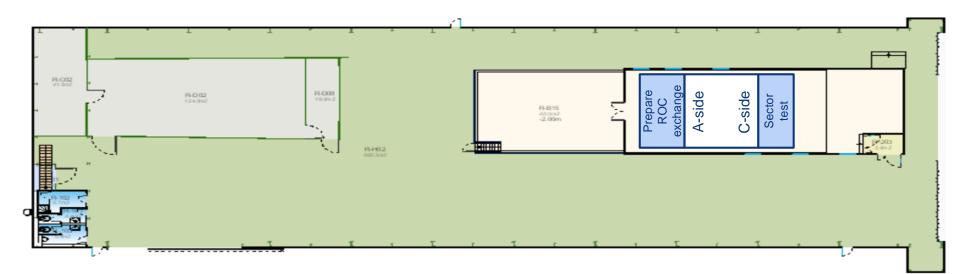




SXL2 activities w5 – Wed 29 Jan 2020



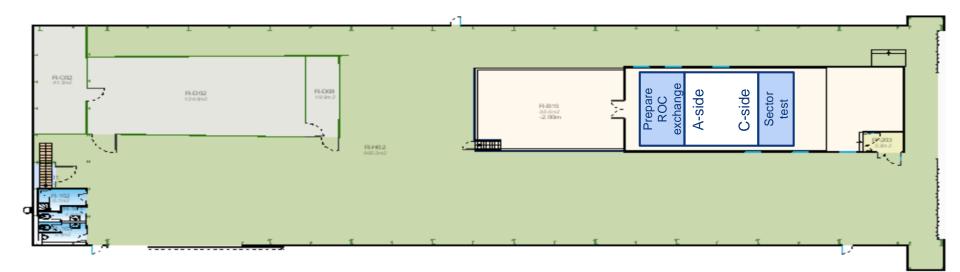
ALTEAD+TPC: dry installation TPC infrastructure





SXL2 activities w5 – Thu 30 Jan 2020

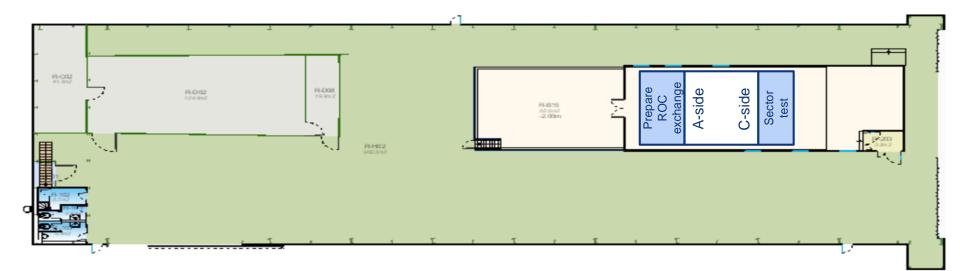






SXL2 activities w5 – Fri 31 Jan 2020



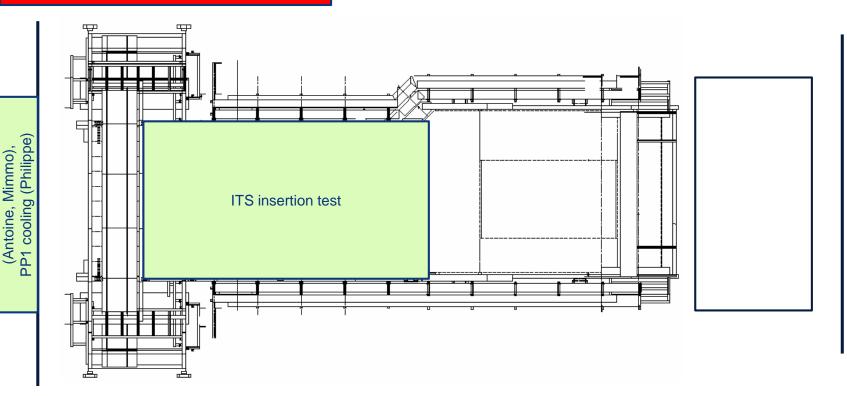




Miniframe activities w5 – Mon 27 Jan 2020



EN-EL: AUG test \rightarrow NO access to P2





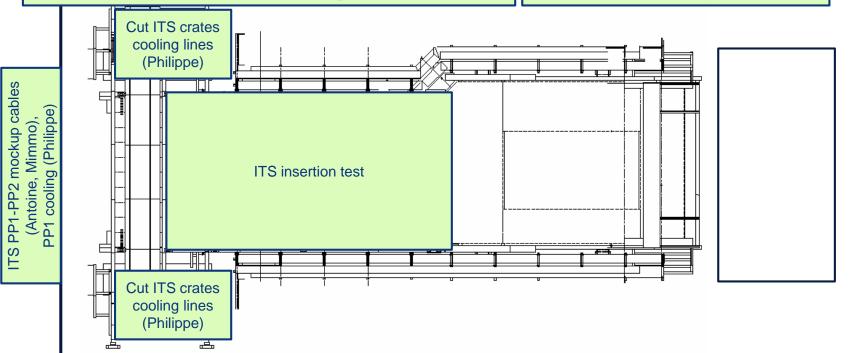
TS PP1-PP2 mockup cables

Miniframe activities w5 – Tue 28 Jan 2020

Produce and install steps to protect FO boxes; finish ITS rack supports; build ITS rack trap (Cedric)

Produce and install ITS crates cooling hoses (Philippe)

Weld ITS-PP2 cable trays (Cedric)

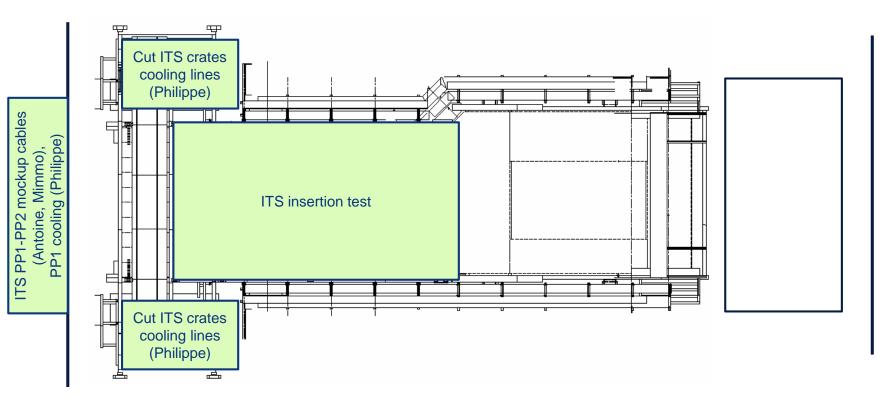




ALICE

Miniframe activities w5 – Wed 29 Jan 2020

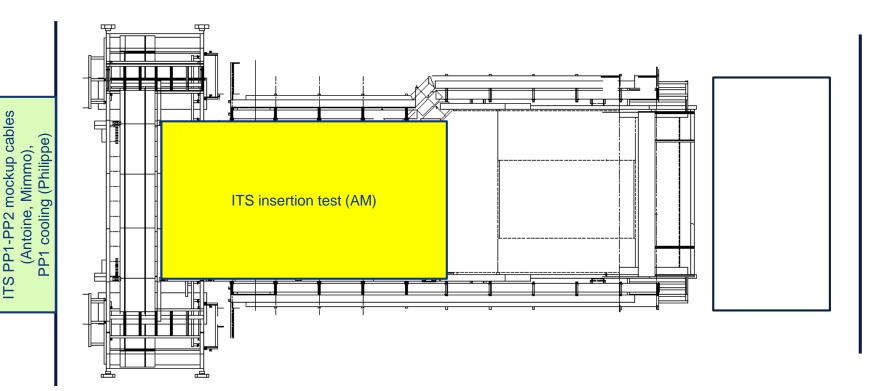






Miniframe activities w5 – Thu 30 Jan 2020

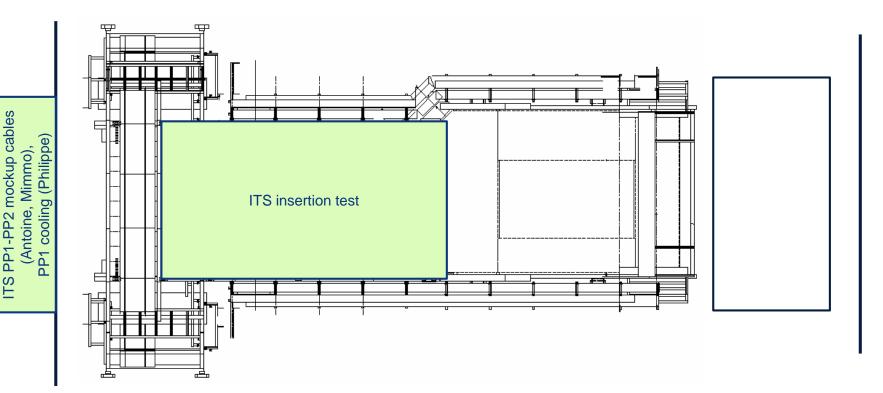






Miniframe activities w5 – Fri 31 Jan 2020

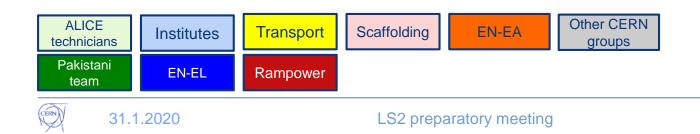








Day-by-day sequence w6



UX25 activities w6 – Mon 3 Feb 2020 Annual maintenance 2020 fire detection and gas detection (until February 11th) SMB: open trench in front of SXL2 (inspection evacuation network) Move TOF SM7,8,9,10 O - SIDE U1-208 19 F ាលា កក់ព D 20m2 т U1-218 **Nacelle** Install TOF DCDC **ITECO** U1 212 ZONE C connectors DCal services connections PHOS PHOS cooling - 2222 UPX25 - 3225 DIPOLE maintenance B INSIE FASS ASC Fix electronics HMPID M3 (8:00 to 10:00) Ι U1-209 **Close HMPID** ΠŪ \Box \otimes 11-213 1319/102 U1-207 M3 (after 10:00) 48m2 <u>``</u> I - SIDE

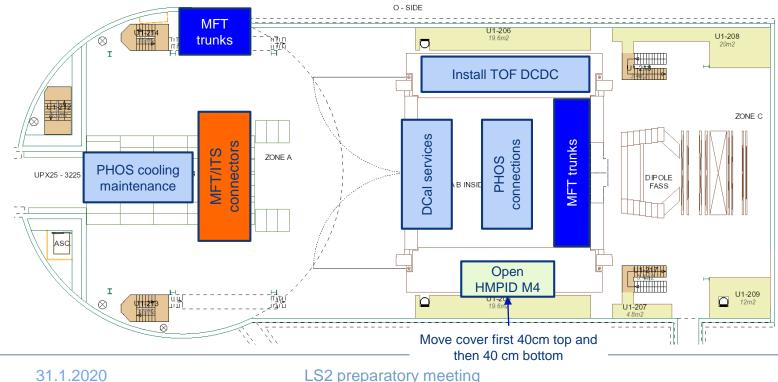


UX25 activities w6 – Tue 4 Feb 2020



Cleaning cavern (Topnet): 13:00 to 15:00

CERN

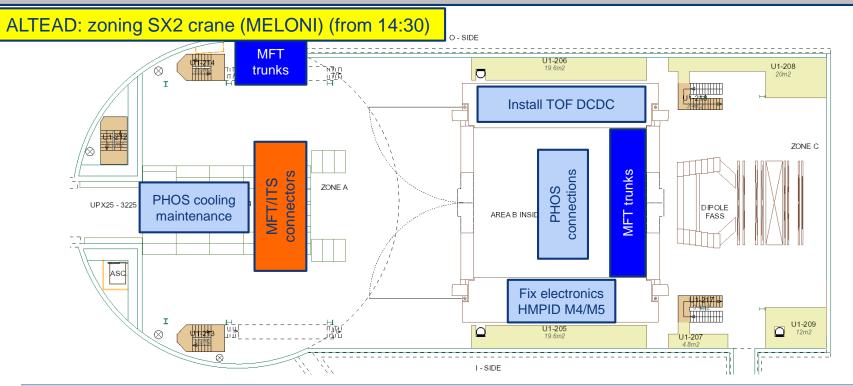


UX25 activities w6 – Wed 5 Feb 2020



Cavern lift maintenance: no access to UX25 from 6:00 AM to 8:00 AM

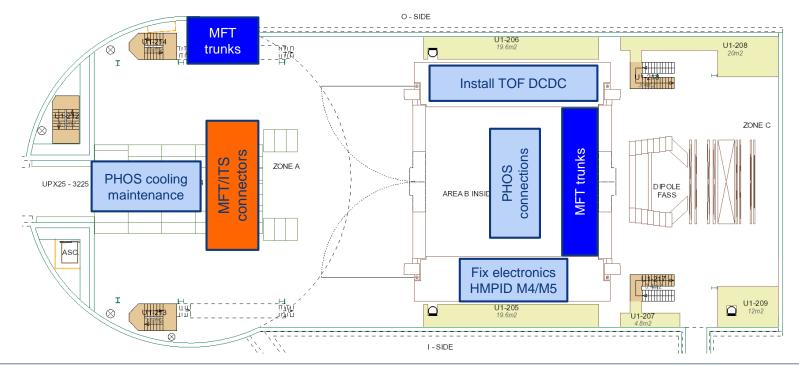
IT: intervention on TN network of point 2, will generate a network cut of few minutes between 8:30 and 12:00





UX25 activities w6 – Thu 6 Feb 2020

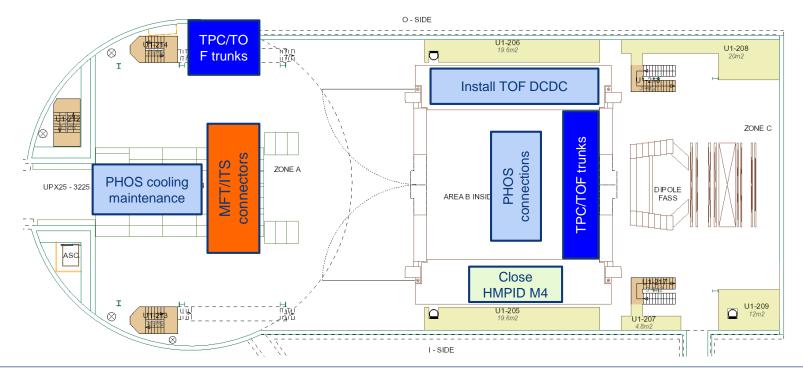






UX25 activities w6 – Fri 7 Feb 2020



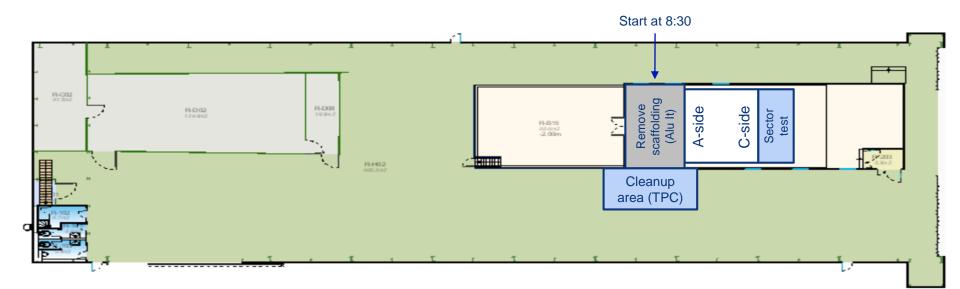




SXL2 activities w6 – Mon 3 Feb 2020



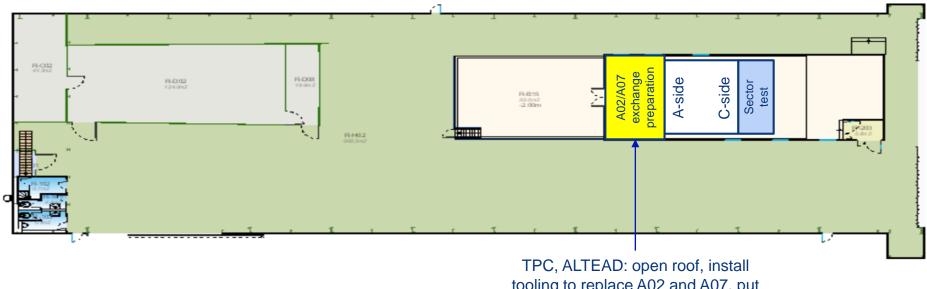
TPC: switch off cleanroom ventilation (PM)





SXL2 activities w6 – Tue 4 Feb 2020





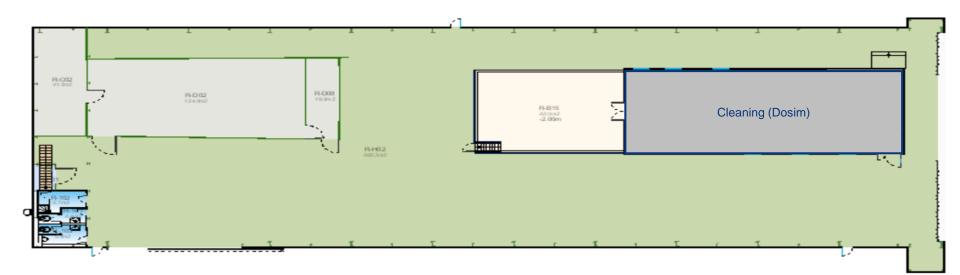
tooling to replace A02 and A07, put access staircase and fences, close roof



SXL2 activities w6 – Wed 5 Feb 2020



TPC: replace gas mixture with air

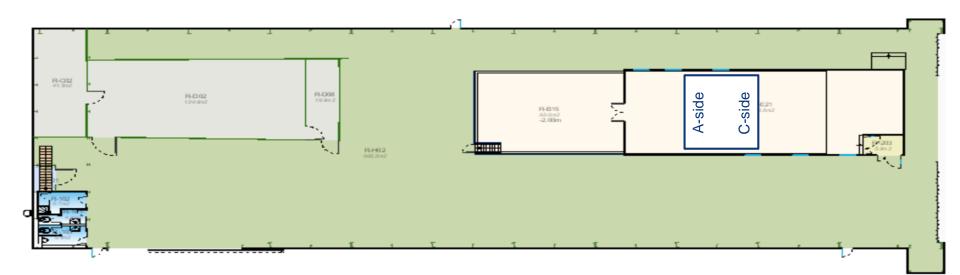




SXL2 activities w6 – Thu 6 Feb 2020



TPC: replace gas mixture with air

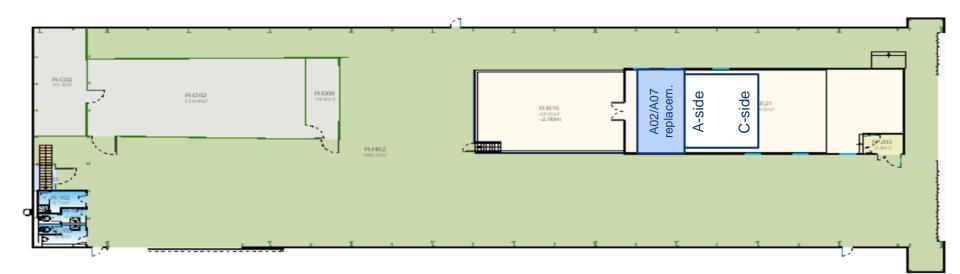




SXL2 activities w6 – Fri 7 Feb 2020



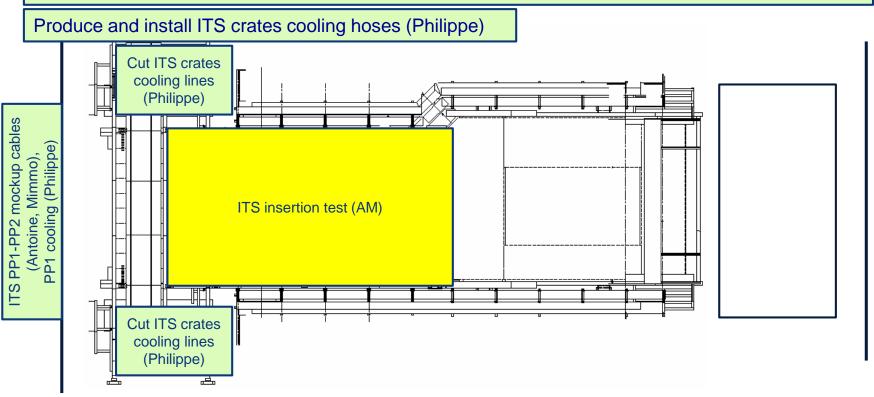
Transportation ITS table and cage to P2





Miniframe activities w6 – Mon 3 Feb 2020

Produce and install steps to protect FO boxes; finish ITS rack supports; build ITS rack trap (Cedric)

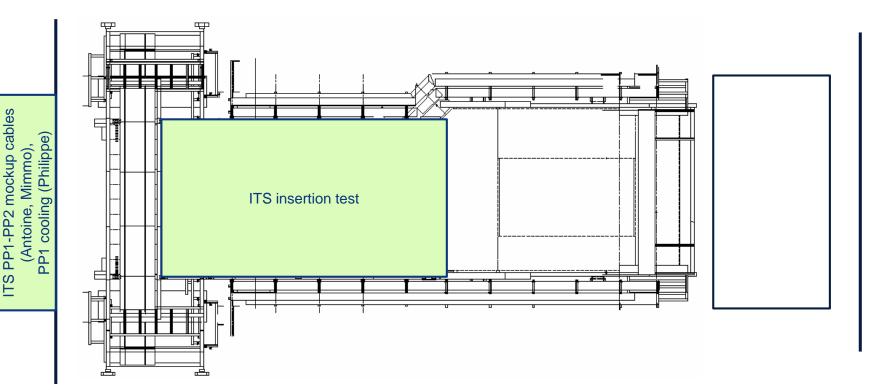




ALICE

Miniframe activities w6 – Tue 4 Feb 2020

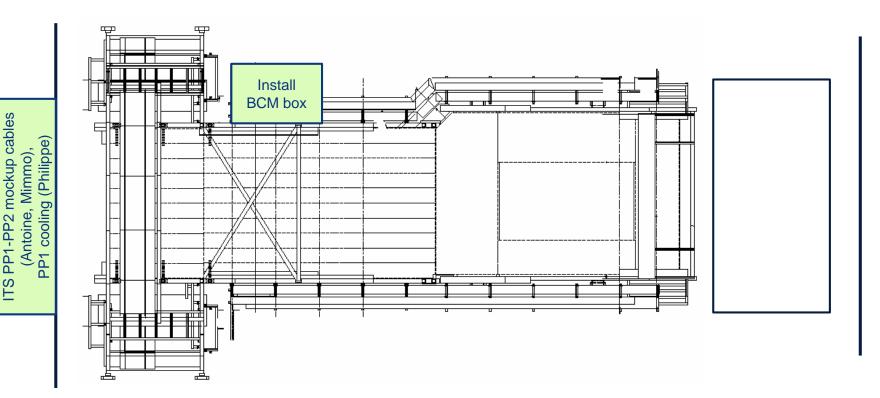






Miniframe activities w6 – Wed 5 Feb 2020

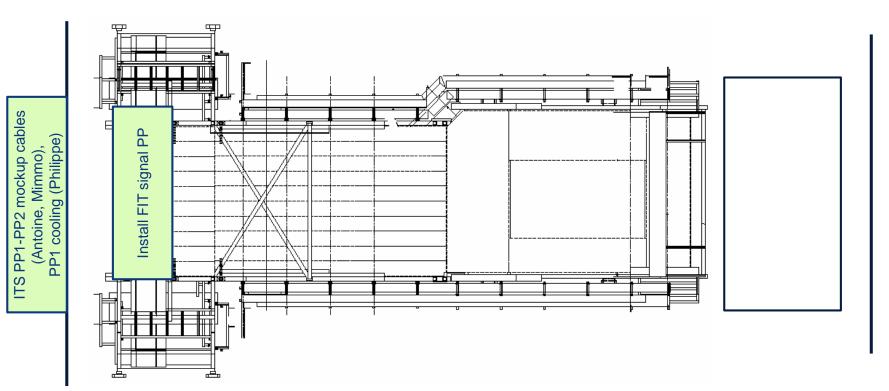






Miniframe activities w6 – Thu 6 Feb 2020

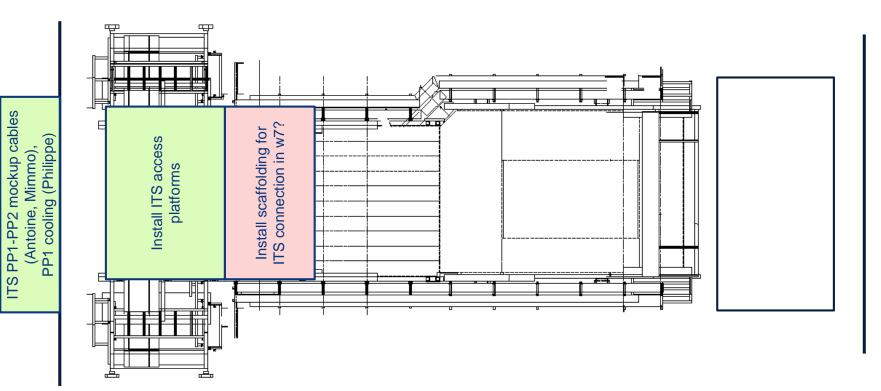






Miniframe activities w6 – Fri 7 Feb 2020

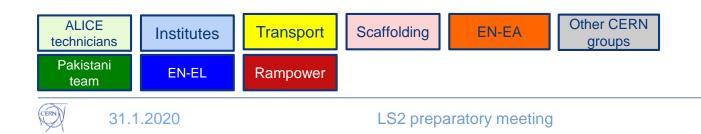








Day-by-day sequence w7

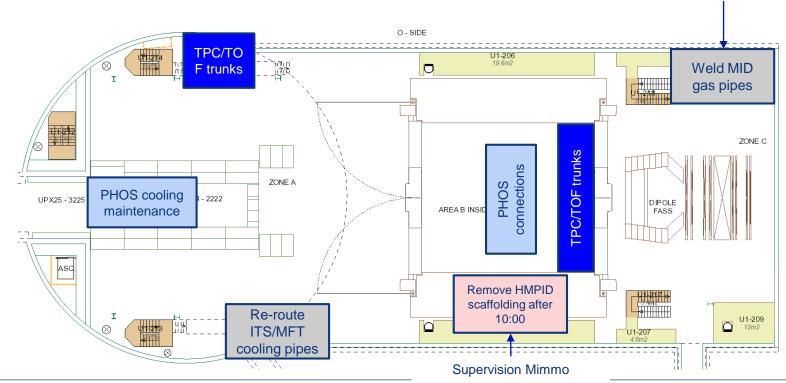


UX25 activities w7 – Mon 10 Feb 2020

ALICE

VIC needed

Install TA valves CR3-4 – whole week (Bruno, Philippe)

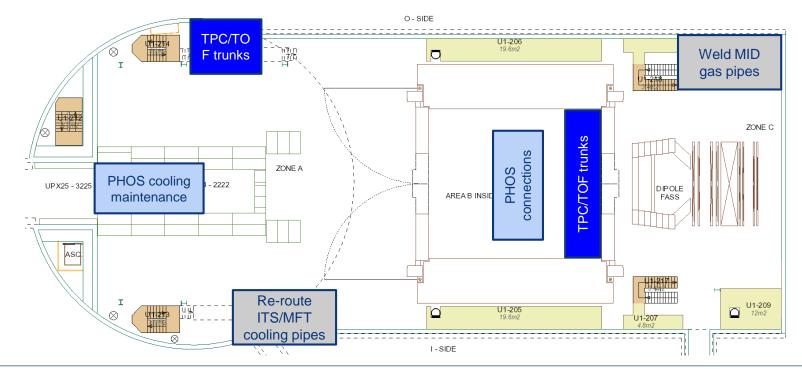




UX25 activities w7 – Tue 11 Feb 2020



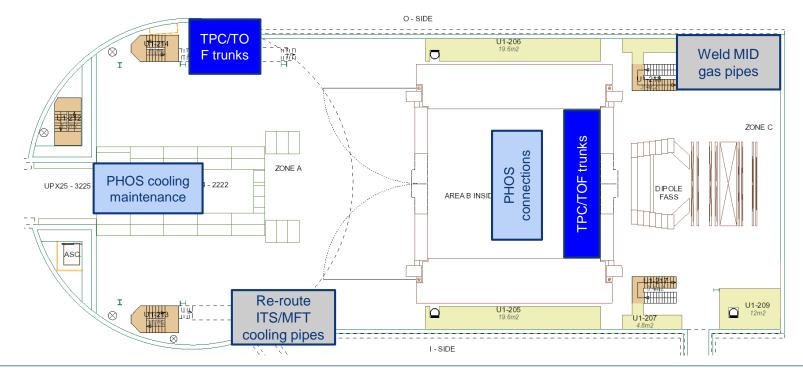
Cleaning cavern (Topnet): 13:00 to 15:00





UX25 activities w7 – Wed 12 Feb 2020

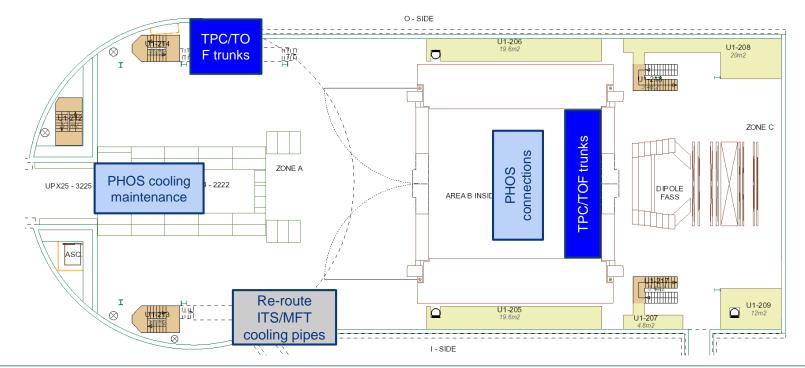






UX25 activities w7 – Thu 13 Feb 2020

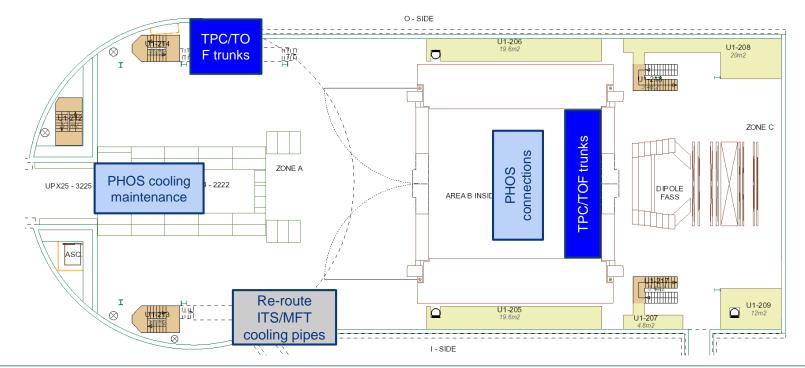






UX25 activities w7 – Fri 14 Feb 2020

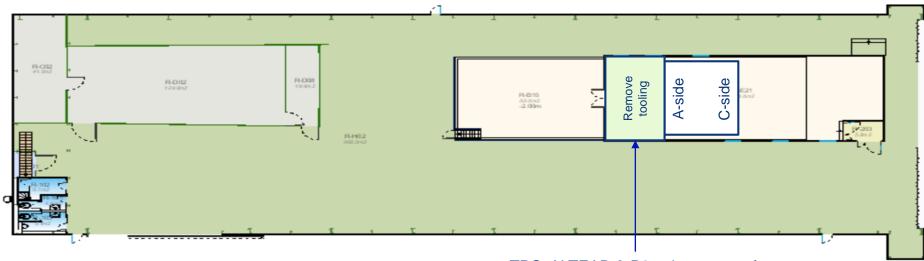






SXL2 activities w7 – Mon 10 Feb 2020



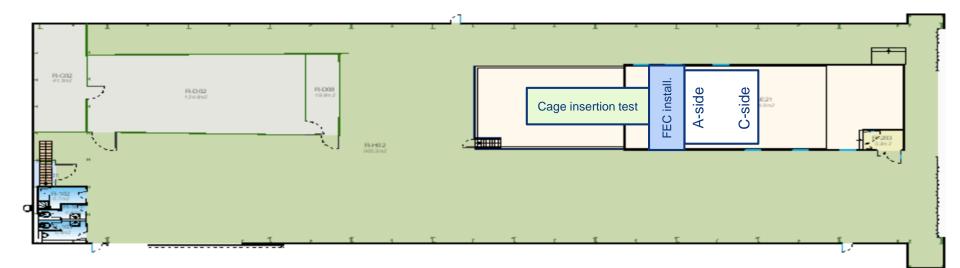


TPC, ALTEAD & P2tech: open roof, remove tooling, put blocks and nacelles, start preparing blocks for cage insertion test



SXL2 activities w7 – Tue 11 Feb 2020



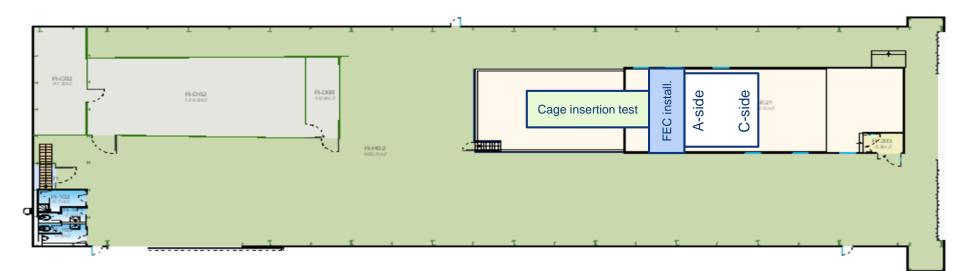








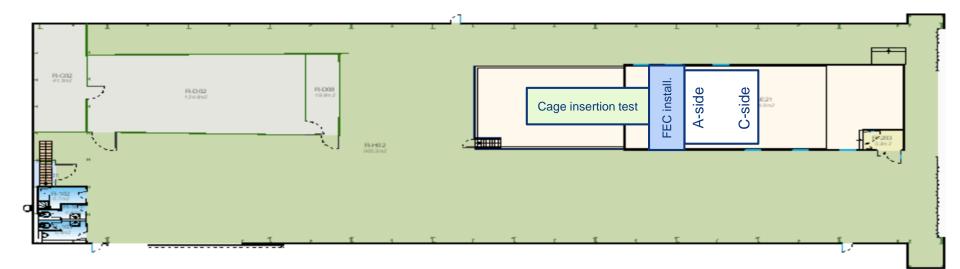
Survey TPC





SXL2 activities w7 – Thu 13 Feb 2020

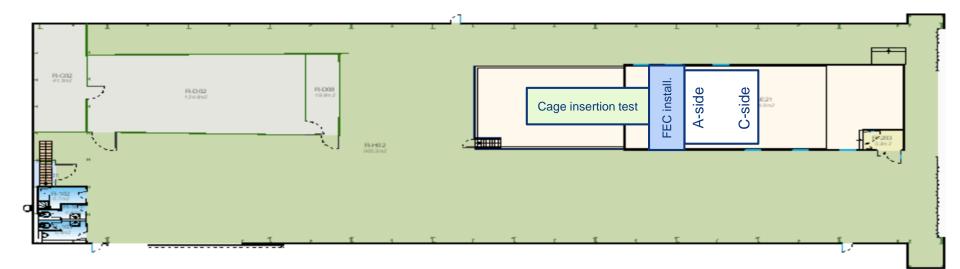






SXL2 activities w7 – Fri 14 Feb 2020

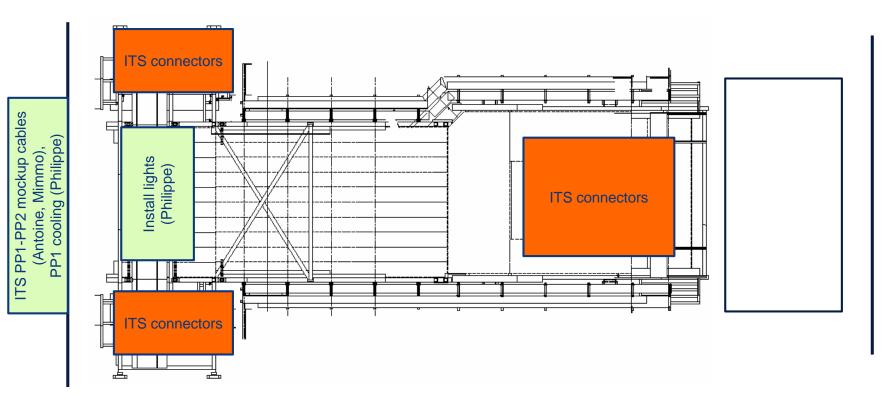






Miniframe activities w7 – Mon 10 Feb 2020

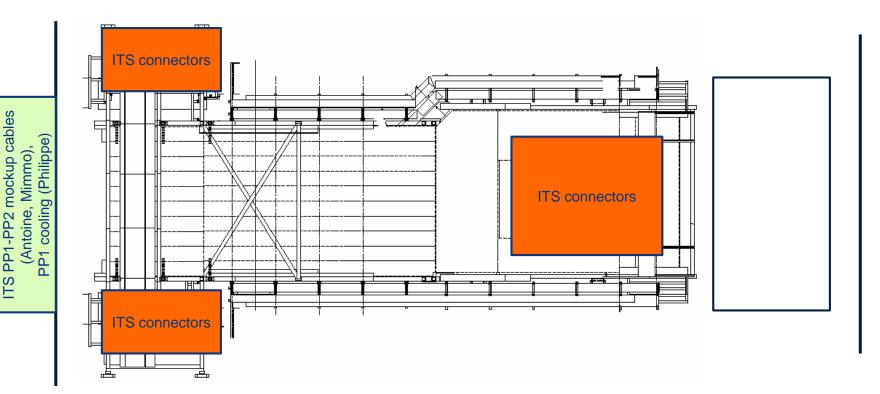






Miniframe activities w7 – Tue 11 Feb 2020

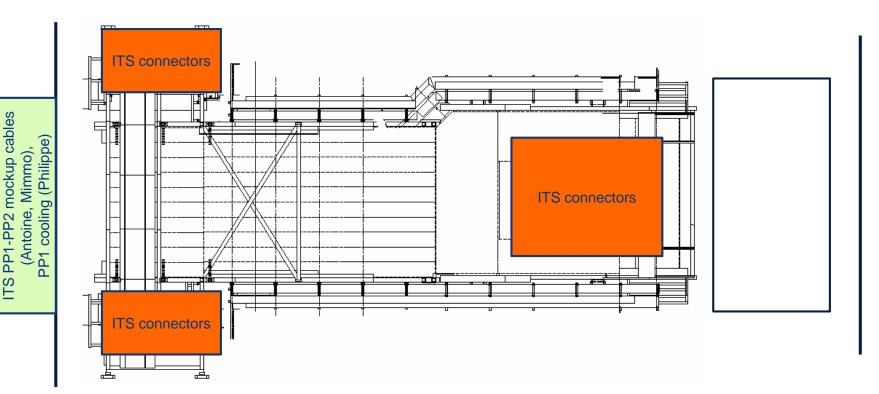






Miniframe activities w7 – Wed 12 Feb 2020

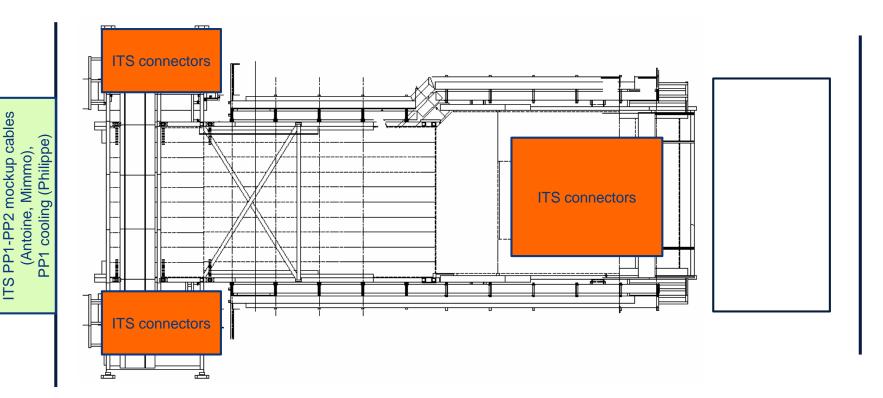






Miniframe activities w7 – Thu 13 Feb 2020







Miniframe activities w7 – Fri 14 Feb 2020



