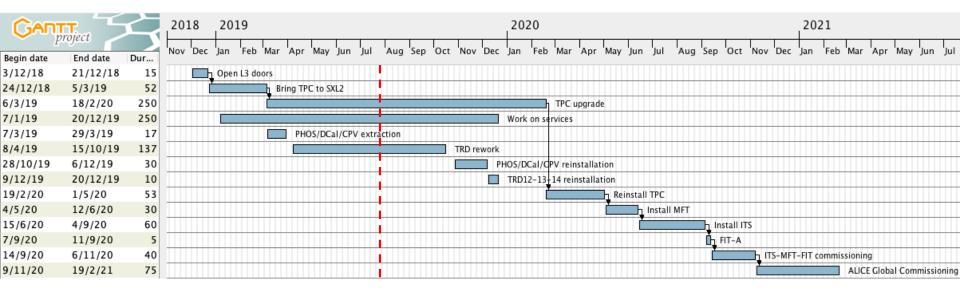
# LS2 planning meeting A.Tauro



# LS2 master plan (v31)







# **EN-EL** interventions



- Test secours (10 min): 19 Dec 2019 from 8:00 AM to 11:00 AM
- 18kV, 3.3kV and LV network maintenance:
  - Mon 20 to Wed 22 Jan 2020: 3 days no general services no access on site (both surface and underground)
  - Thu 23 to Fri 24 Jan 2020: 2 days "Limited access" → details to be worked out
- AUG on Monday 27 January 2020 no access on site (both surface and underground)
- Auto transfer test: 27-29 Apr 2020
- BIW test: 5 and 6 Oct 2020 from 18:00 to 00:00 no access underground



# **EN-CV** interventions



#### • Big maintenance:

- SF: from Nov 2019 to mid Jan 2020. NO impact on ALICE as both magnets will be OFF.
- UW: **stop UX mixed water** for 2 days in week 40/2019 (October).
- 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.

#### • Ventilation:

- SG2: w7/2019 Done
- Gas extraction: w8/2019 Done
- UX25 cavern: May 2020 (tbc)
- MCH and MTG: Apr 2020 (tbc)
- L3: Apr 2020 (tbc)
- ITS: Apr 2020 (tbc)

#### Raw water:

• Test after Apr 2019. Short interruption (1 day), can be used tap water during the test.



## UX access restrictions



- No access from Friday 26<sup>th</sup> July 12:00 to Saturday 27<sup>th</sup> July 18:00 (lift intervention)
- No access to A-side on Friday 2<sup>nd</sup> August from 13:00 to 18:00 (evacuation TRD blocks)
- No access to A-side from 2<sup>nd</sup> to 4<sup>th</sup> September (open low-beta platform)
- No access to A-side from 18<sup>th</sup> to 20<sup>th</sup> September (close low-beta platform)



# **CERN** Open Days



- Sat 14 and Sun 15 September 2019
- CERNois visits on Fri 13 PM
- Open Low-Beta platform and put scaffolding

Please register as volunteer: https://espace.cern.ch/OD2019/Volunteers/





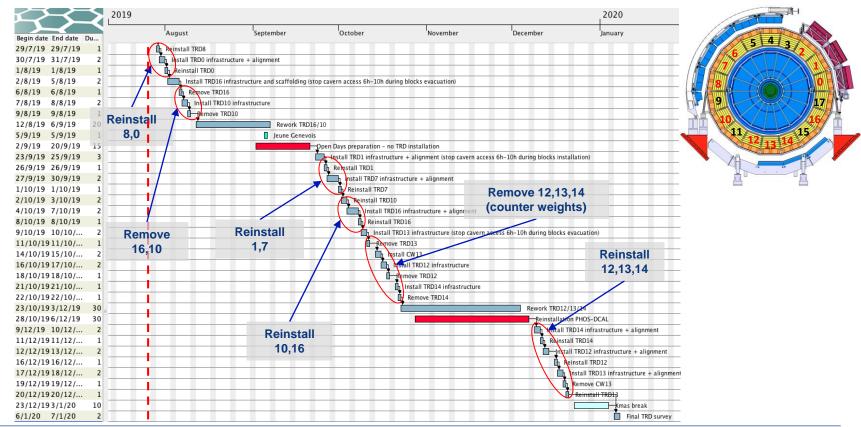
$\leq$	2019								
Begin date	End date	Duration	Week 36	Week 37 8/9/19	Week 38	Week 39 22/9/19	Week 40 29/9/19	Week 41 6/10/19	Week 42
2/9/19	4/9/19	3		Open low-be	eta platform	i T			
5/9/19	5/9/19	1		Jeune Gene	vois				
9/9/19	11/9/19	3		P	ut scaffoldi	ng betweer	UX and RB	24 (OD)	
16/9/19	16/9/19	0		•		n Days – 14	-15.9.2019		
17/9/19	17/9/19	1			L Rei	move scaffo	lding betw	een UX and	RB24 (OD)
18/9/19	20/9/19	3				Close low	/-beta platf	form	



....

#### **TRD** schedule





26/7/19

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# TPC upgrade sequence v34





Remove Services and FEE (outside cleanroom)

TPC schedule v34



Uninstall MWPC ROC



Install GEM ROC



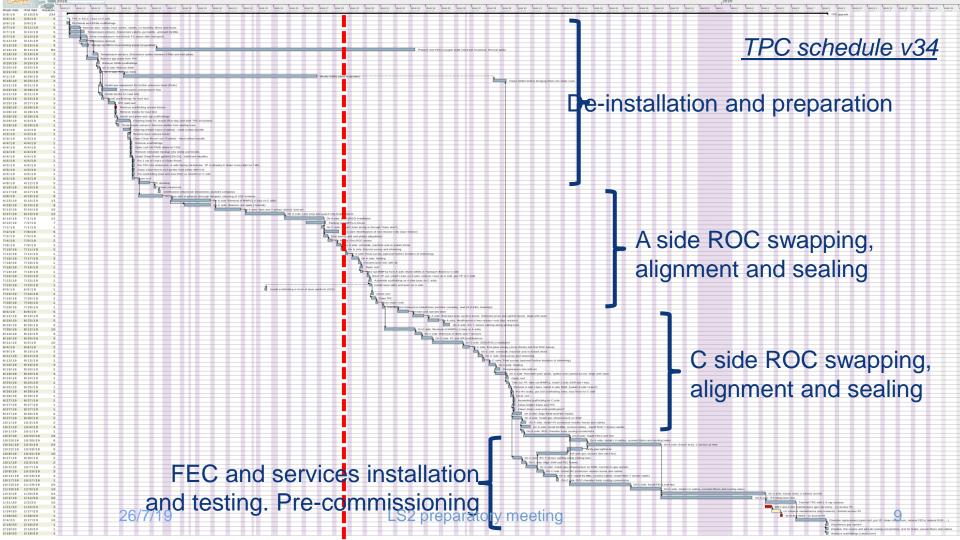
Install new FEC + test



Transportation to SX2



LS2 preparatory meeting



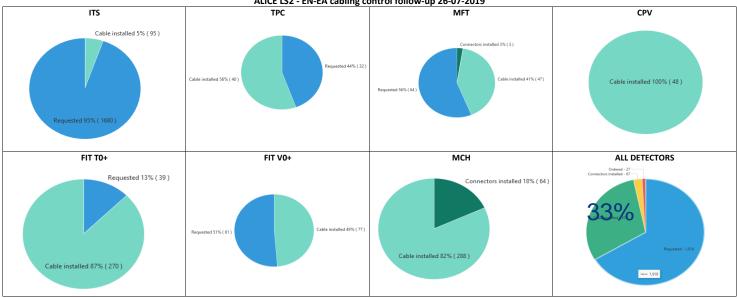
# Copper cables (EN-EA)



		2019					2020	
Begin date End date		ly August	September	October	November	December	January	Febri
/7/19 4/7/19	4	FIT bunker to C-side cables (42)						
/7/19 5/7/19	1	-CPV cables from CTP to CPV (53)						
/7/19 11/7/19	4	MCH RO connectors (C-side racks)						
2/7/19 17/7/19	4	MCHRO connectors (ST1-2-3)						_
8/7/19 19/7/19	2	MCH FEE connectors (C-side rac	(c)					_
2/7/19 25/7/19	4	MCH FEE connectors (ST4-						
2/7/19 25/7/19	4	MCH RO cables test (ST1-						
6/7/19 31/7/19	4	MCH RO connectors						
/8/19 2/8/19	2	MCH RO cables te						
1/7/19 2/8/19	3		-racks, cables from CR4)					_
4/7/19 13/9/19	38			bles from racks to PPO (468-4	487. 489-508)			
/8/19 30/8/19	20		August holidays					_
/9/19 4/9/19	3		Open low-beta	- no access A-side				_
6/9/19 17/9/19	2			FT cables from A15 to PP0 (2	7-30 1)			_
8/9/19 19/9/19	2			CPV cables from A17 to CPV				_
6/9/19 18/9/19	3			AFT connectors (A-side racks				
9/9/19 19/9/19	1			MFT connectors (A-side rack				
9/9/19 19/9/19	1			MFT cables test (cables from				
8/9/19 20/9/19	3			Close low-beta - no access	A-side			_
3/9/19 23/9/19	1			h MFT connectors (rack 124				
4/9/19 24/9/19	1			MFT connectors (C-side				_
5/9/19 30/9/19	4				cables from CR4 and C-side)			_
0/9/19 2/10/19	3				rs (cables from C-side racks)			
/10/19 8/10/19	4				nnectors (detector)			_
10/19 14/10/	4				-C connectors (C-side racks)			
10/19 11/10/	3				bles test (cables between CR4 and	C-side)		
5/10/19 17/10/	3				FIT cables test (cables from C-side			
5/10/19 16/10/	2				CPV connectors (A-17 rack)	-/		
7/10/19 17/10/	1				CPV connectors (C-25 rack)			
8/10/1921/10/	2				h CPV connectors (detector)			_
2/10/1922/10/	1				CPV cables test			_
1/11/1919/11/	7					TPC connectors (PP0, cables fr	om (R4)	
0/11/1921/11/	2					TPC cables test (PPO, cables		_
0/11/193/12/19	10				<b>r</b>		PPO, cables from A-side racks)	_
12/19 13/12/	8					*	bles test (PPO, cables from A-si	ide racks to PPC
/12/19 5/12/19	2						rs (PPO, cables from A-side rack	
12/19 10/12/	3						es test (PPO, cables from A-side	
/12/19 9/12/19	2						ctors (PPO, cables from CR4)	
0/12/19 11/12/	2						es test (PPO, cables from CR4 to	PP0)
3/12/193/1/20	10						Xmas break	
8/3/19 12/7/19	85	Replace TRC/TRD/TOF 300mm2 LV cab	es (back-frame) (I-side)				Minas break	
5/7/19 18/10/		replace in c/ inc/ for scotting LV cab	co (ouck-frame) (r-side)	the second se	Replace TPC/TRD/TOF 300mm2 L	V cables (back_frame) (Oide		_



# Copper cables (EN-EA) – progress

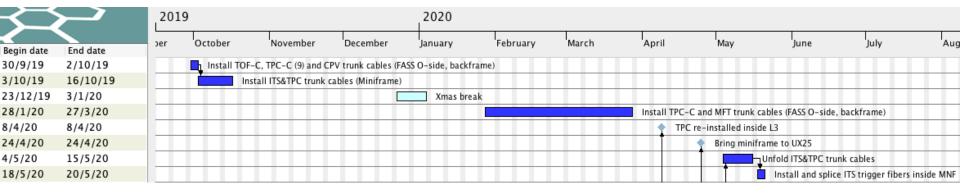


ALICE LS2 - EN-EA cabling control follow-up 26-07-2019



# **Optical fibers (EN-EL)**

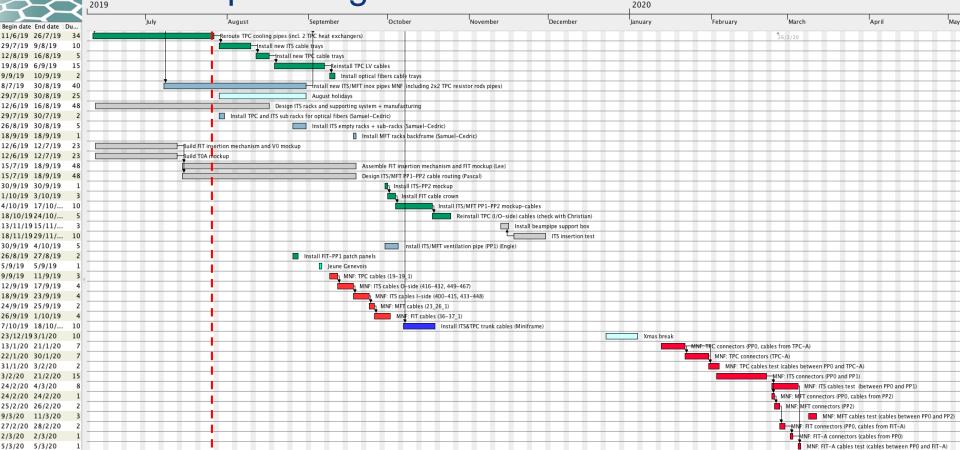






# Miniframe planning

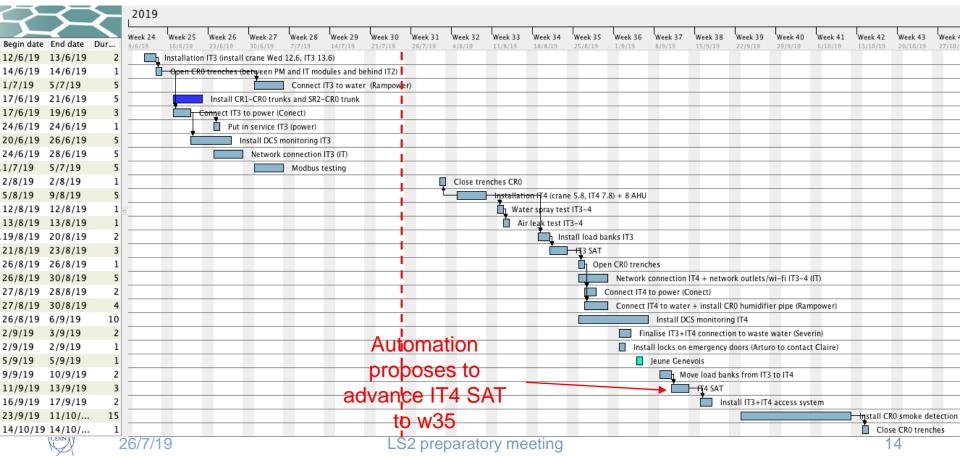




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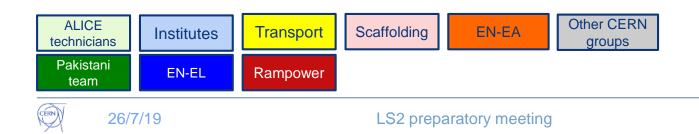
# **CR0** planning





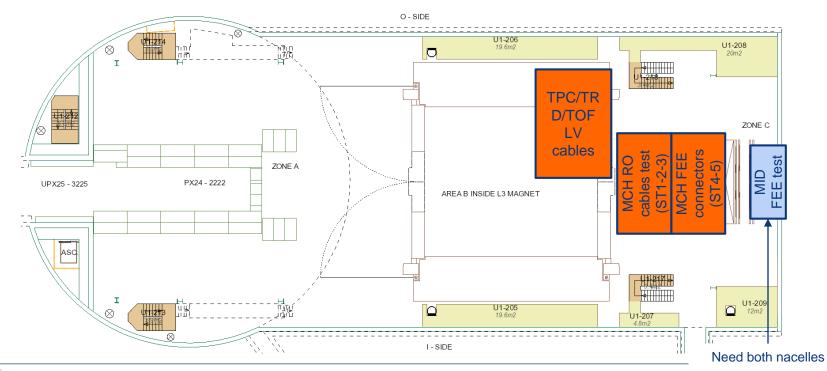


## Day-by-day sequence w30



#### UX25 activities w30 – Mon 22 Jul 2019



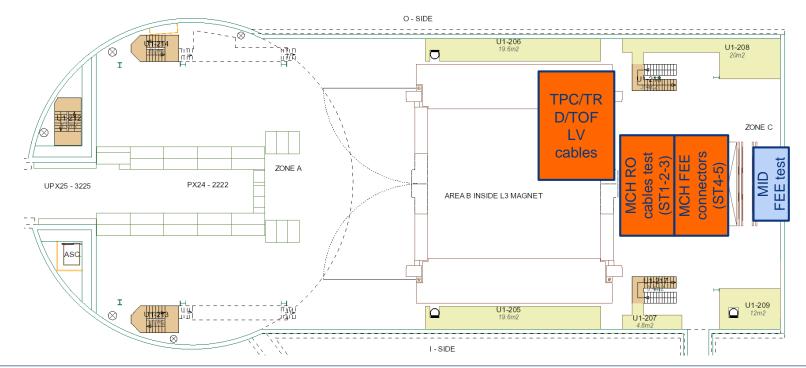




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#### UX25 activities w30 – Tue 23 Jul 2019



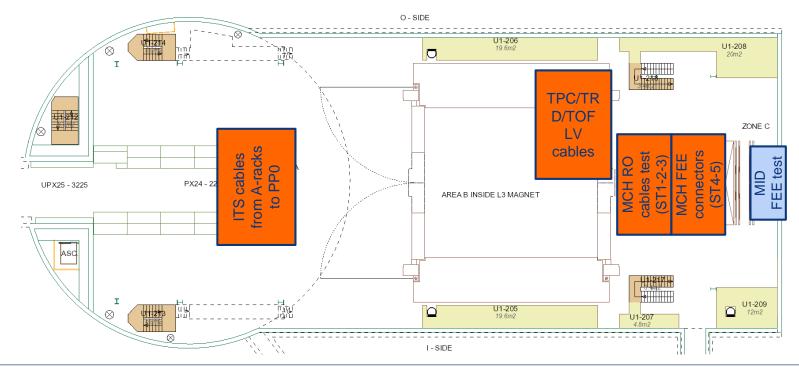




#### UX25 activities w30 – Wed 24 Jul 2019



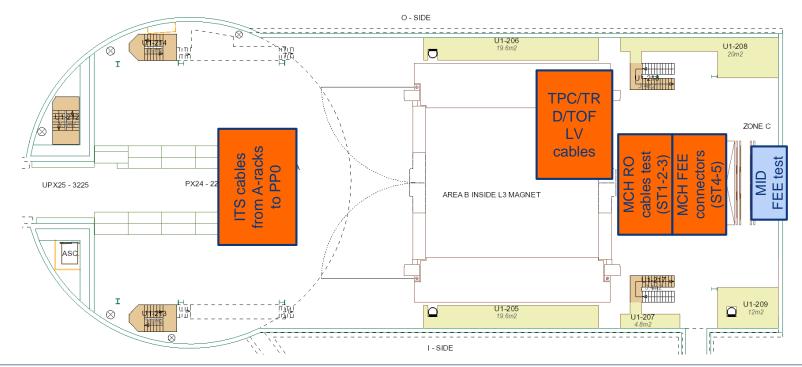
#### Restart flammable gas for MTR





#### UX25 activities w30 – Thu 25 Jul 2019



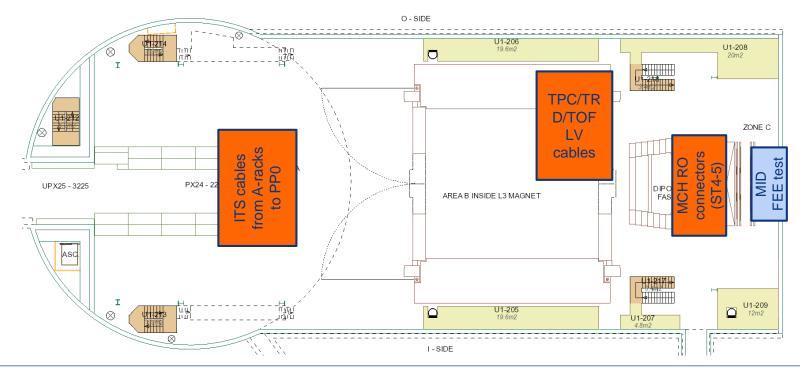




### UX25 activities w30 – Fri 26 Jul 2019



#### Lift maintenance (AS-724): no access to UX25 from Friday 26.7 12:00 to Saturday 27.7 18:00

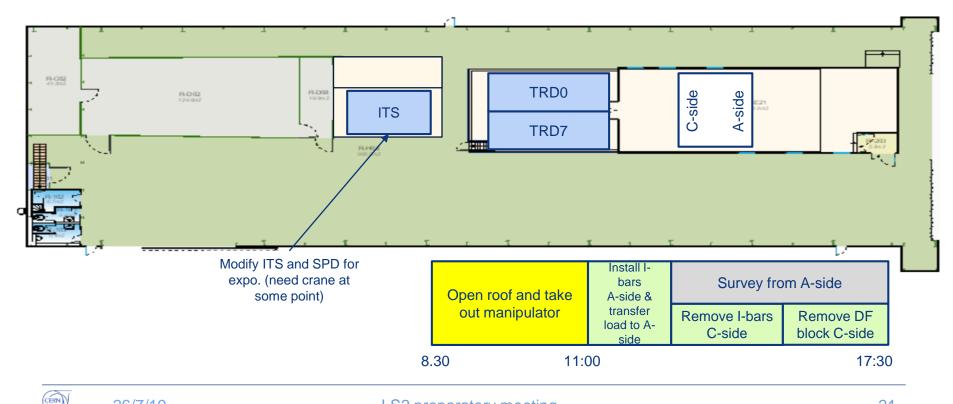




### SXL2 activities w30 – Mon 22 Jul 2019



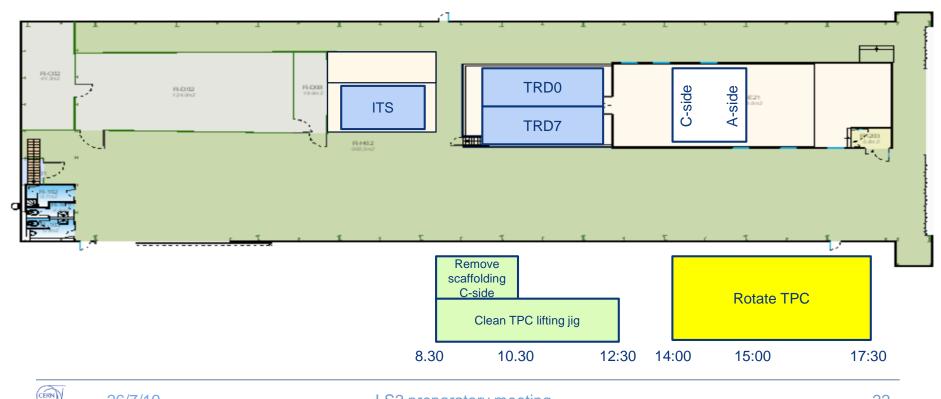
Inside the cleanroom: coats + charlottes + overshoes obligatory



### SXL2 activities w30 – Tue 23 Jul 2019



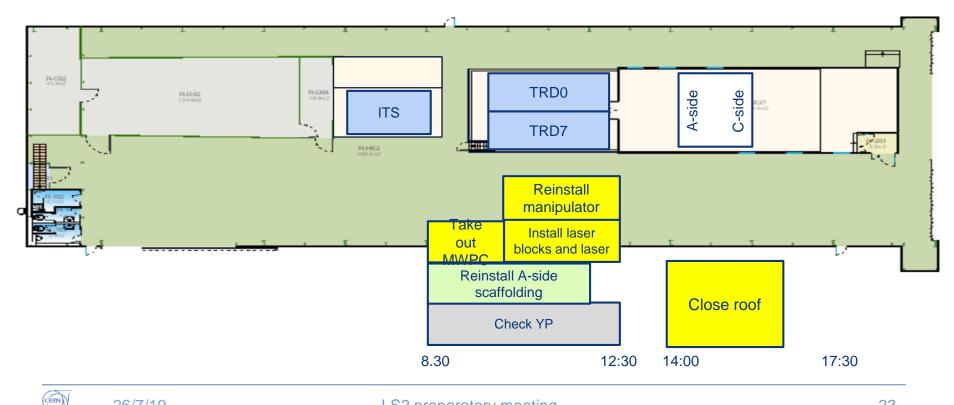
Inside the cleanroom: coats + charlottes + overshoes obligatory



### SXL2 activities w30 – Wed 24 Jul 2019

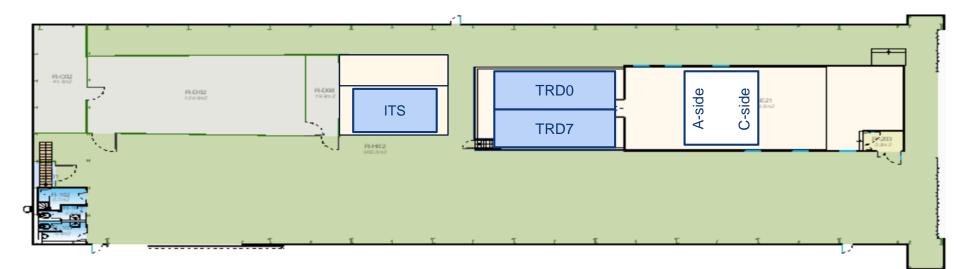


Inside the cleanroom: coats + charlottes + overshoes obligatory



#### SXL2 activities w30 – Thu 25 Jul 2019

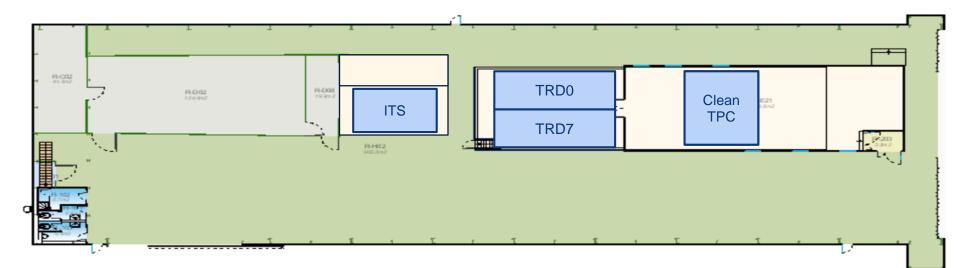






#### SXL2 activities w30 – Fri 26 Jul 2019

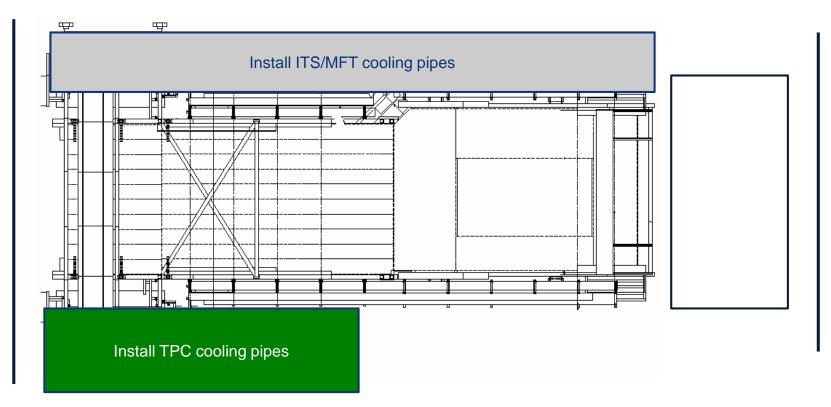






### Miniframe activities w30 - Mon 22 Jul 2019

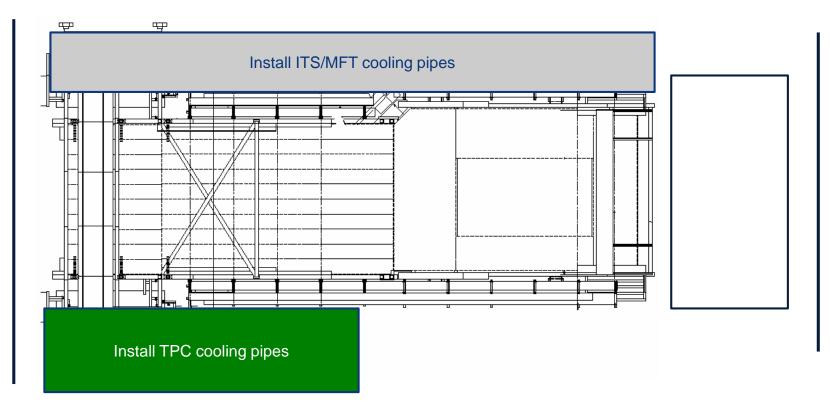






### Miniframe activities w30 – Tue 23 Jul 2019

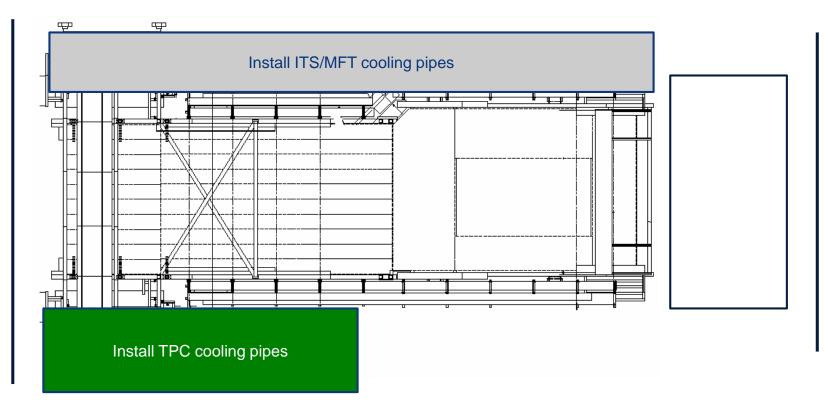






### Miniframe activities w30 - Wed 24 Jul 2019

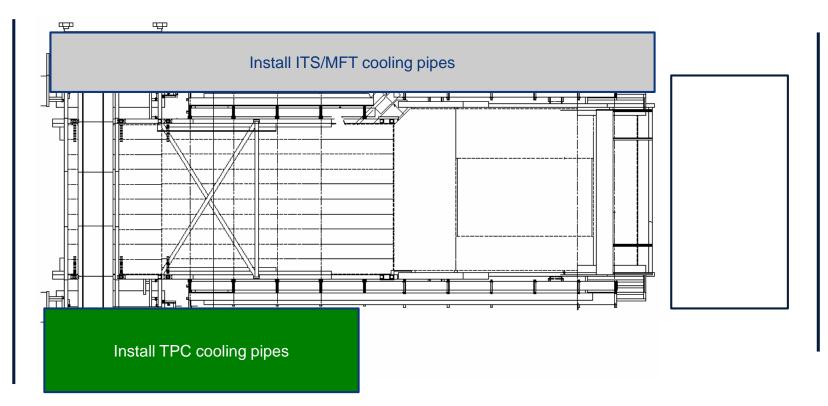






### Miniframe activities w30 – Thu 25 Jul 2019

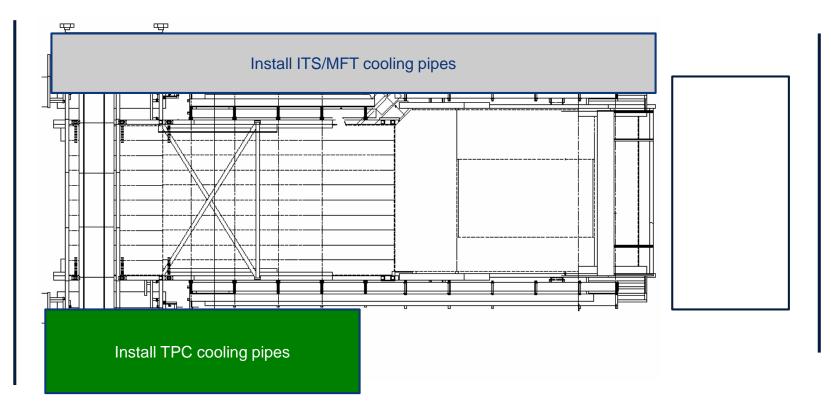






### Miniframe activities w30 - Fri 26 Jul 2019

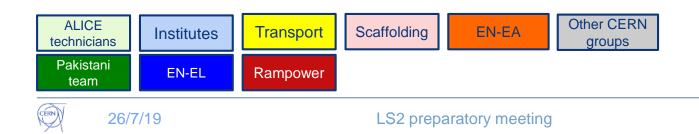








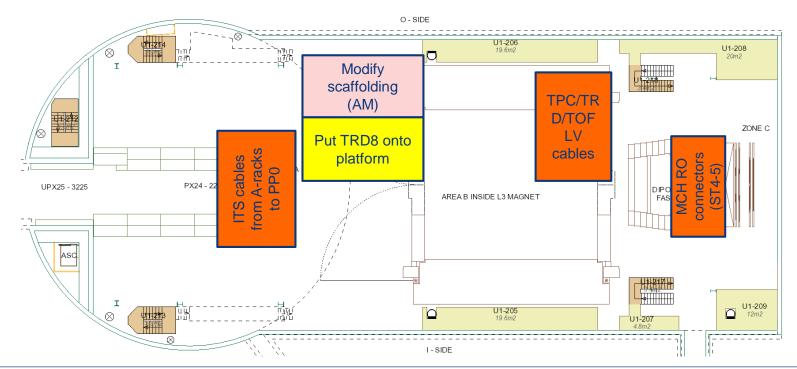
## Day-by-day sequence w31



#### UX25 activities w31 – Mon 29 Jul 2019



#### ALTEAD: close CR0 trenches

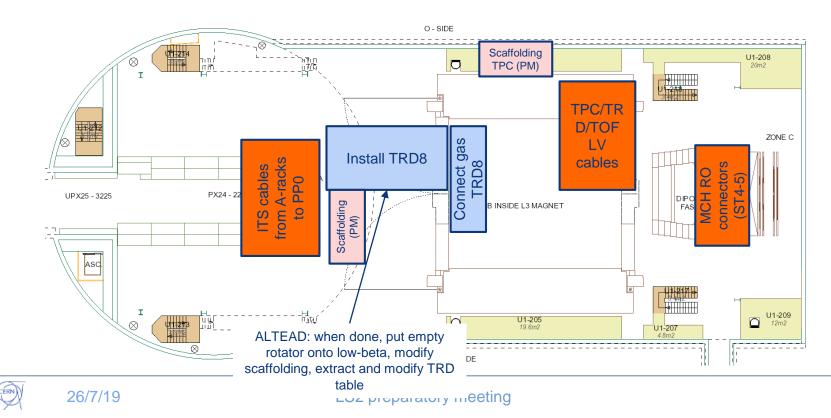




### UX25 activities w31 – Tue 30 Jul 2019



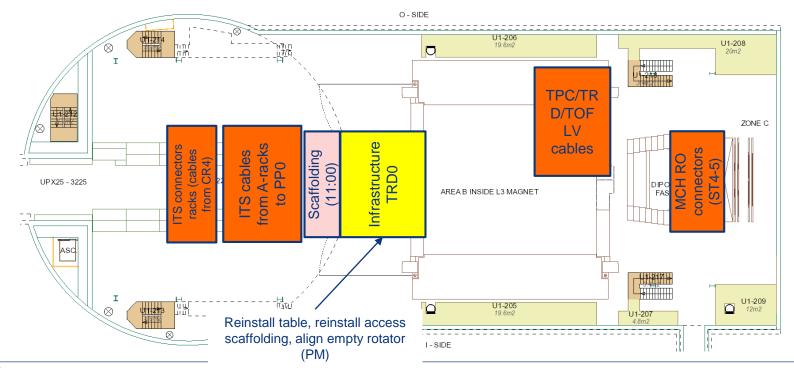
ALTEAD: remove CV equipment (part 1)



33

#### UX25 activities w31 – Wed 31 Jul 2019



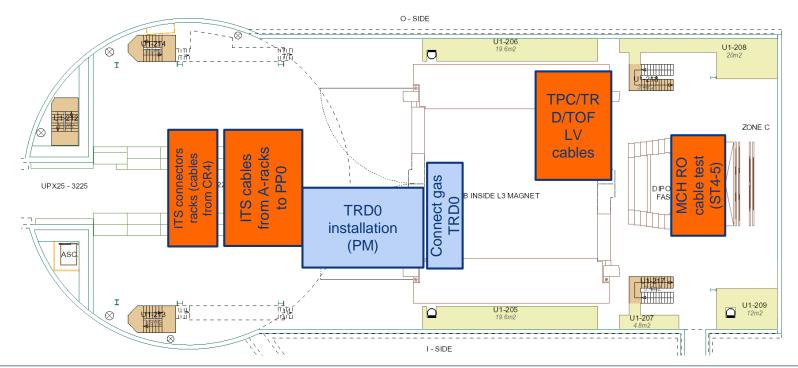


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### UX25 activities w31 – Thu 1 Aug 2019



#### ALTEAD: overtime hours





### UX25 activities w31 – Fri 2 Aug 2019



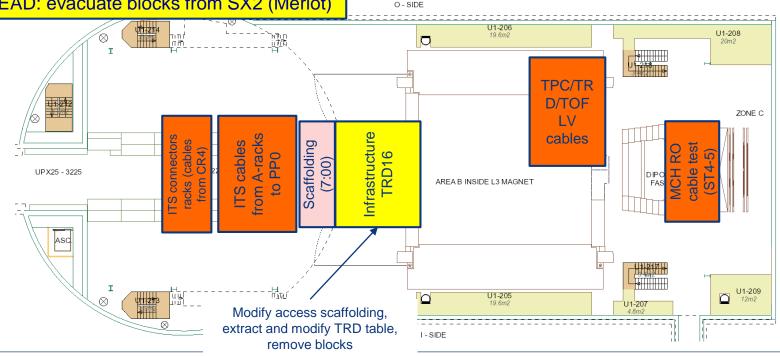
STOP flammable gas for MTR

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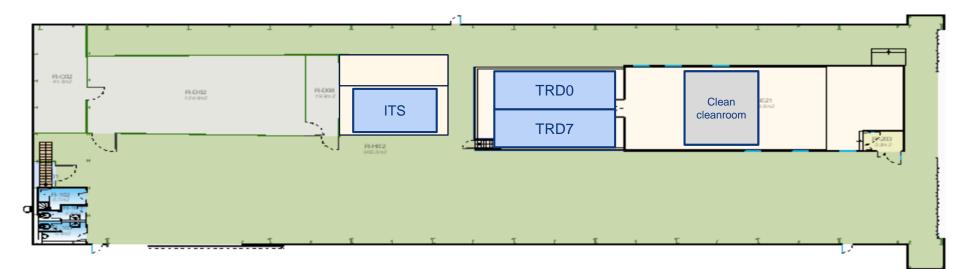
ALTEAD: removal TRD blocks  $\rightarrow$  no access UX24 A-side (PM)

ALTEAD: evacuate blocks from SX2 (Merlot)



#### SXL2 activities w31 – Mon 29 Jul 2019

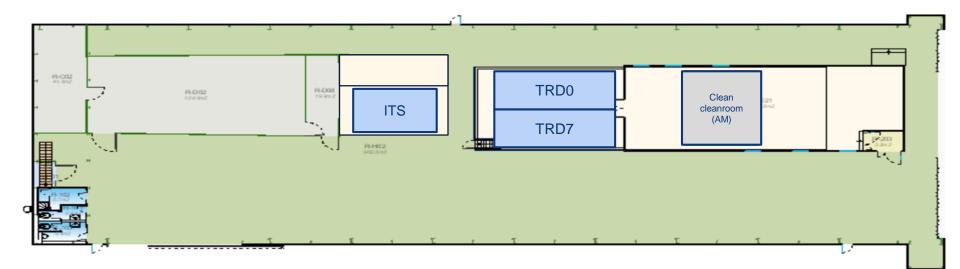






#### SXL2 activities w31 – Tue 30 Jul 2019



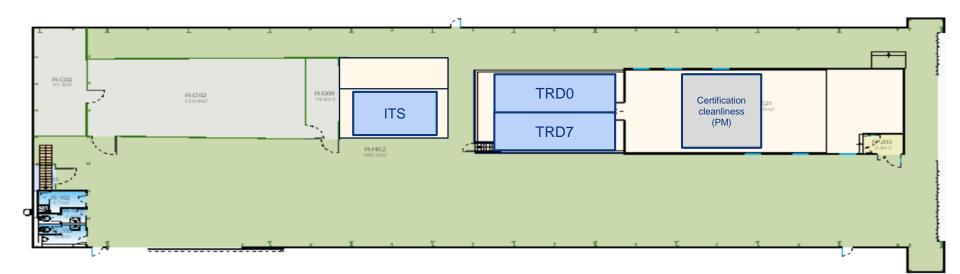




#### SXL2 activities w31 – Wed 31 Jul 2019



#### ALTEAD: transportation ITS to SX2 (PM)

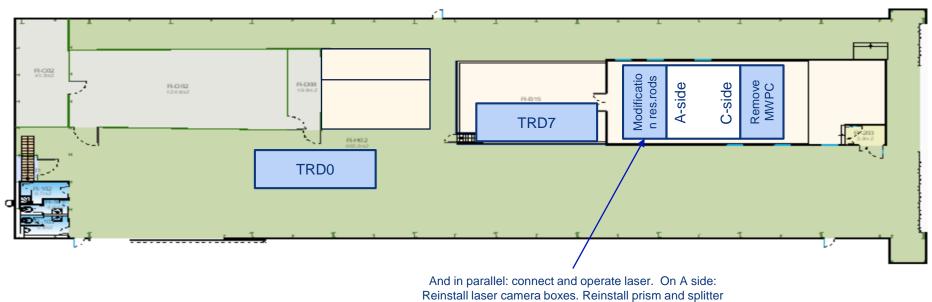




### SXL2 activities w31 – Thu 1 Aug 2019



ALTEAD + TRD: insert TRD0 into rotator (AM)

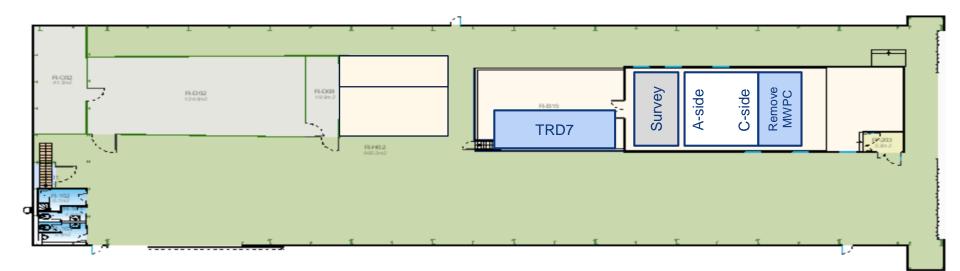


boxes. Align with laser



#### SXL2 activities w31 – Fri 2 Aug 2019

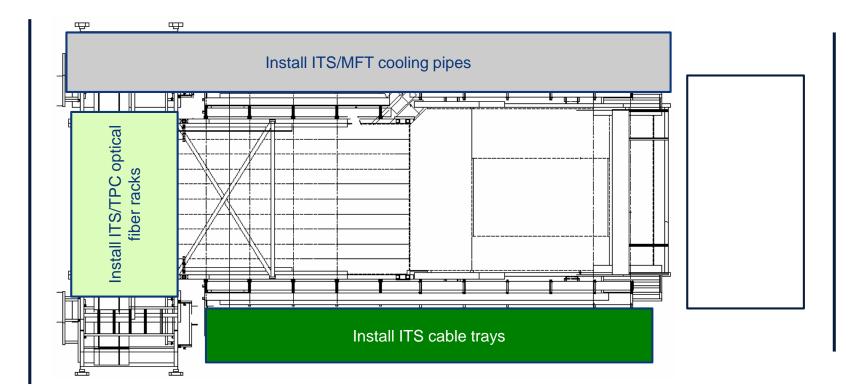






## Miniframe activities w31 - Mon 29 Jul 2019



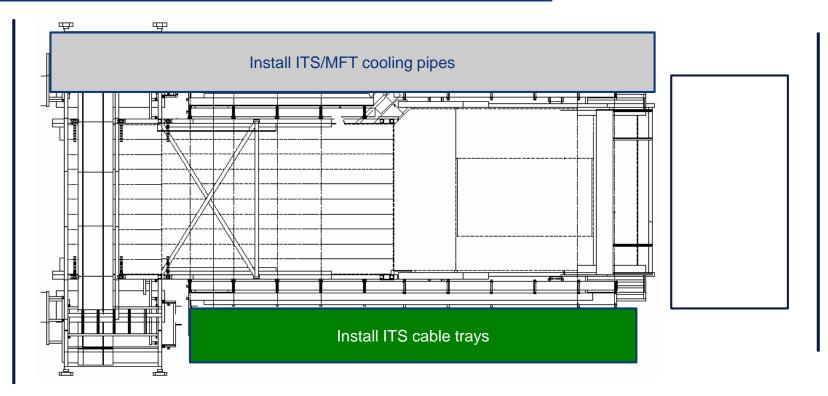




## Miniframe activities w31 – Tue 30 Jul 2019



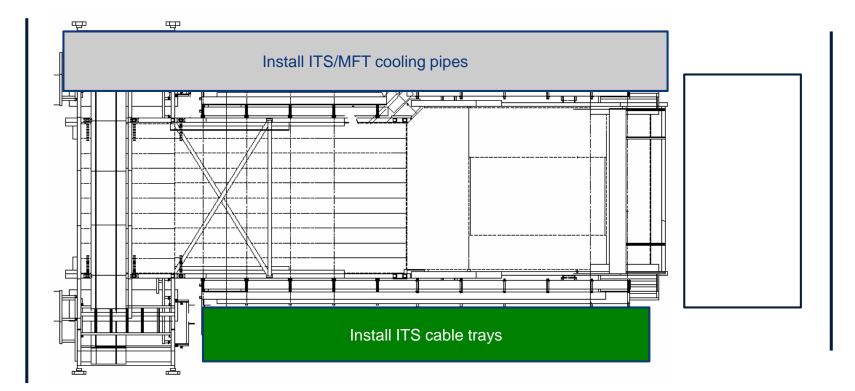
Remove Rampower material in order to make room for TRD platform





## Miniframe activities w31 – Wed 31 Jul 2019

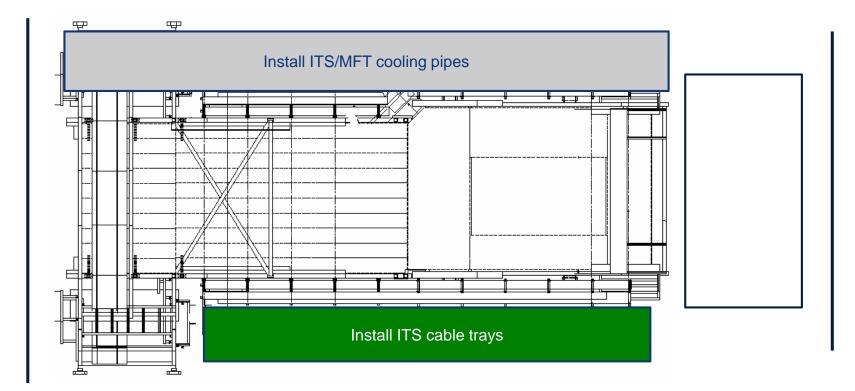






## Miniframe activities w31 – Thu 1 Aug 2019

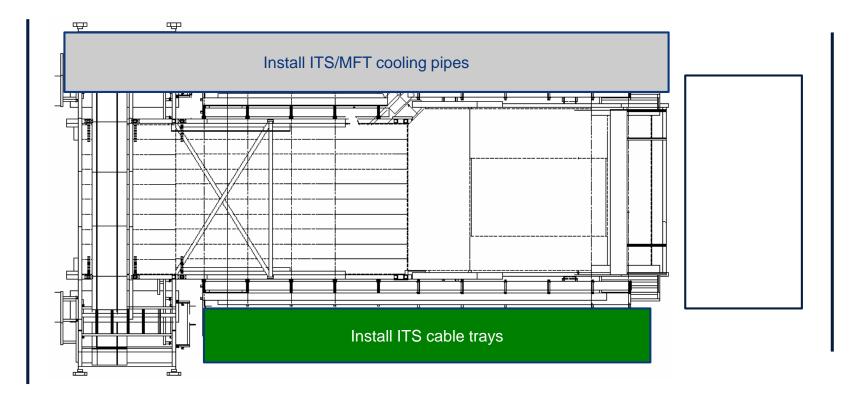






## Miniframe activities w31 – Fri 2 Aug 2019

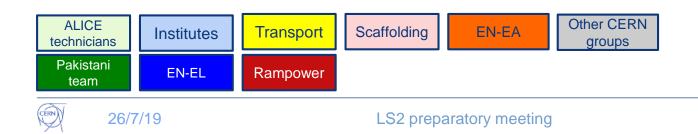








# Day-by-day sequence w32

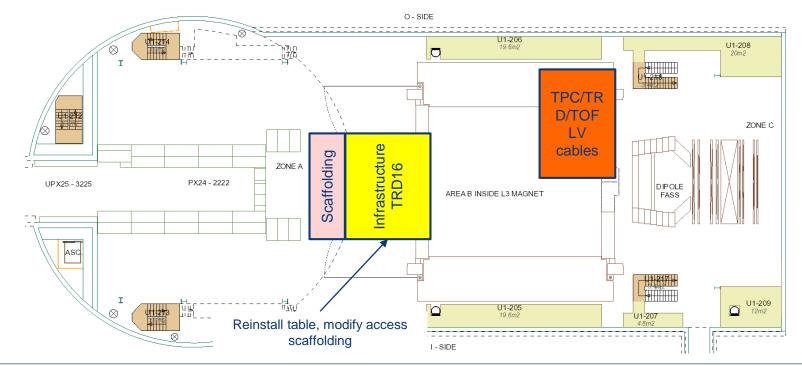


## UX25 activities w32 – Mon 5 Aug 2019

ALICE

CR0: installation mobile elevator + VIC (14:30)

ALTEAD: remove CV equipment (part 2)

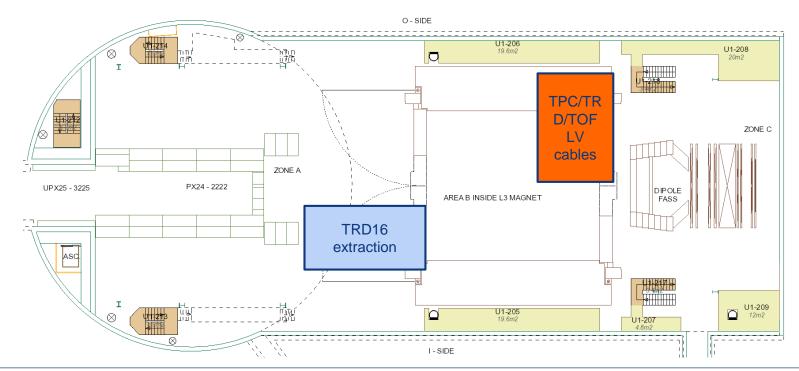




### UX25 activities w32 – Tue 6 Aug 2019



CR0: delivery 8 AHUs, installation 4AHUs above IT3





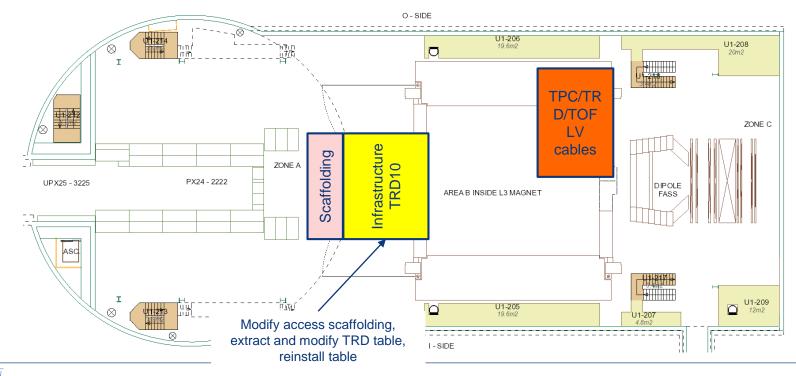
#### UX25 activities w32 – Wed 7 Aug 2019



#### CR0: installation IT4 + 4 AHUs

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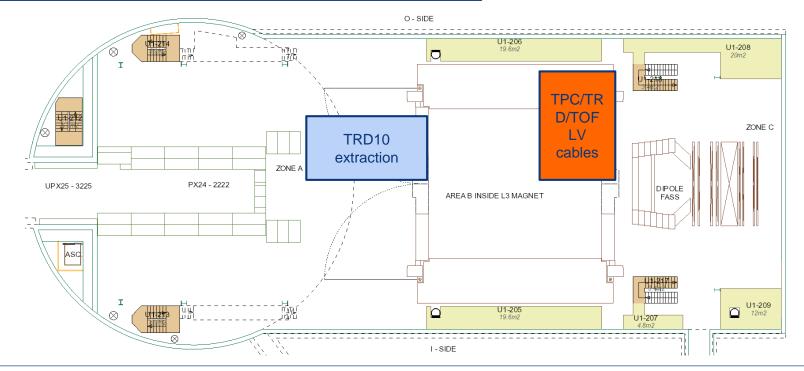
LS2 preparatory meeting

## UX25 activities w32 - Thu 8 Aug 2019



SNIFFER test - inhibit link to DSS and cavern evacuation

CR0: installation various parts from the roof (AUTOMATION)



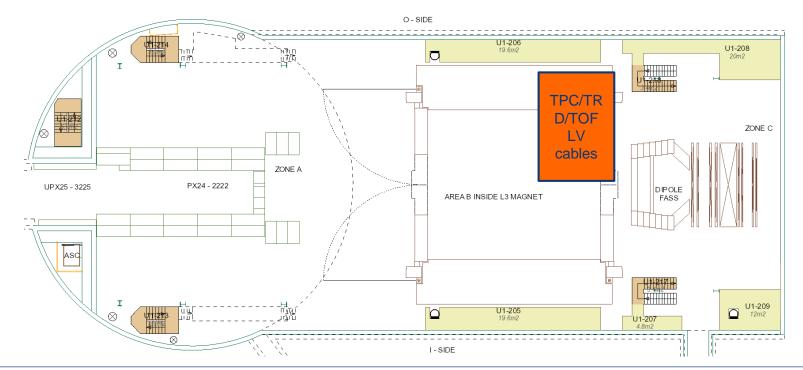


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#### CR0: removal mobile crane

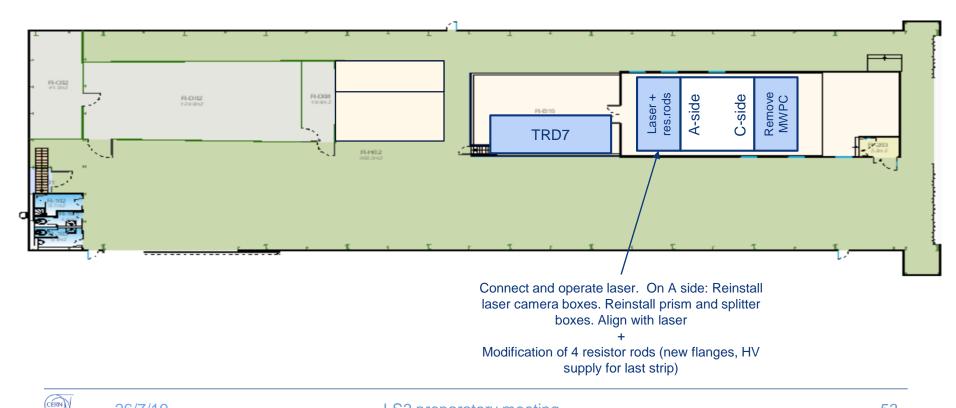




26/7/19

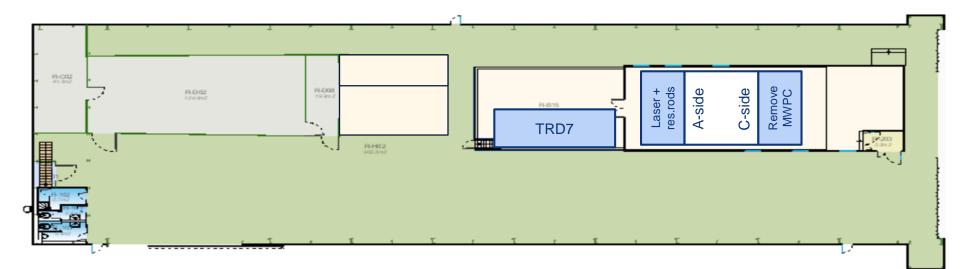
#### SXL2 activities w32 – Mon 5 Aug 2019





### SXL2 activities w32 – Tue 6 Aug 2019

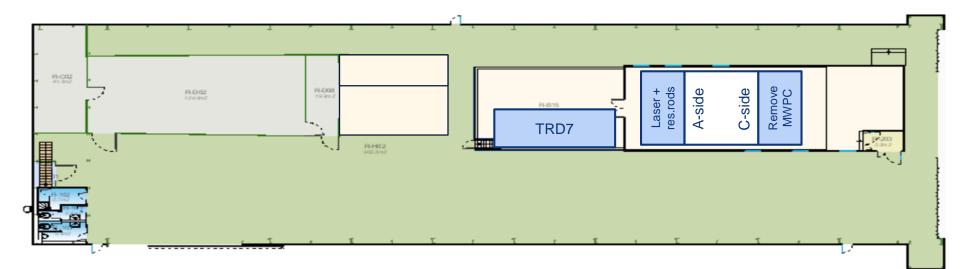






### SXL2 activities w32 – Wed 7 Aug 2019



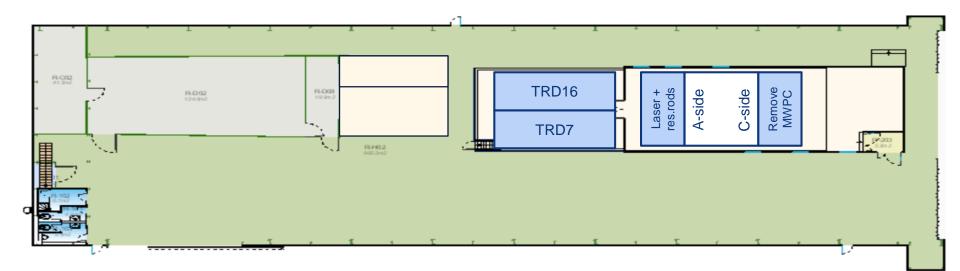




## SXL2 activities w32 – Thu 8 Aug 2019



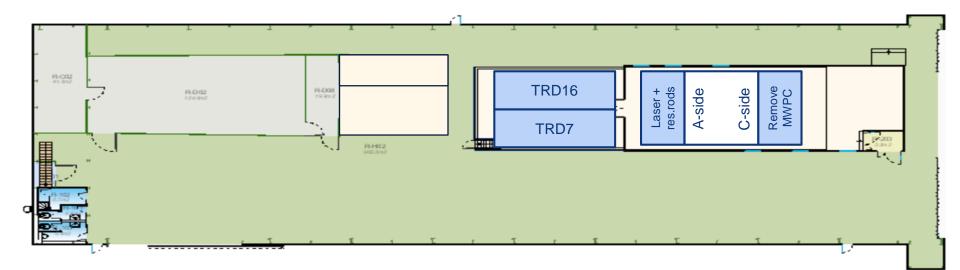
#### ALTEAD + TRD: extract TRD16 from rotator, put it into blue frame and into swimming pool





### SXL2 activities w32 – Fri 9 Aug 2019

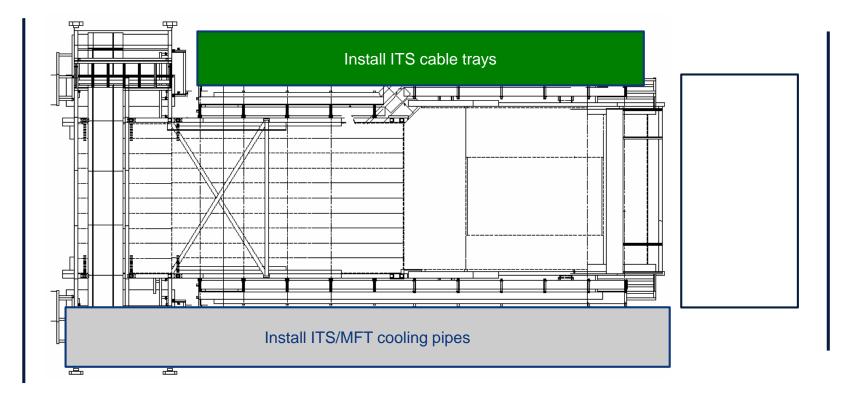






## Miniframe activities w32 – Mon 5 Aug 2019

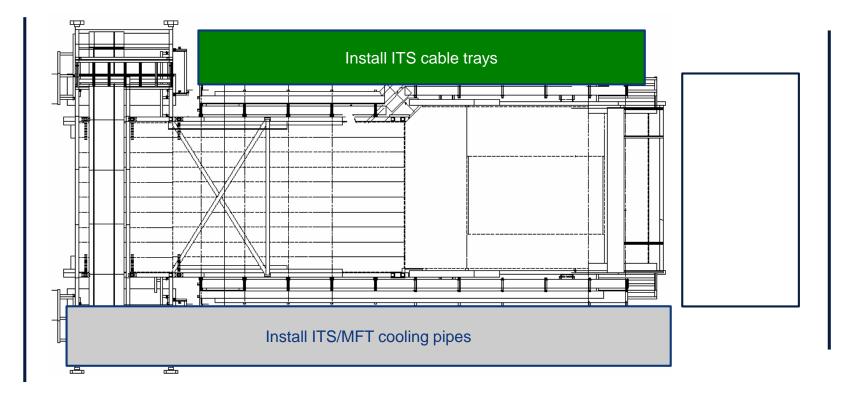






## Miniframe activities w32 – Tue 6 Aug 2019

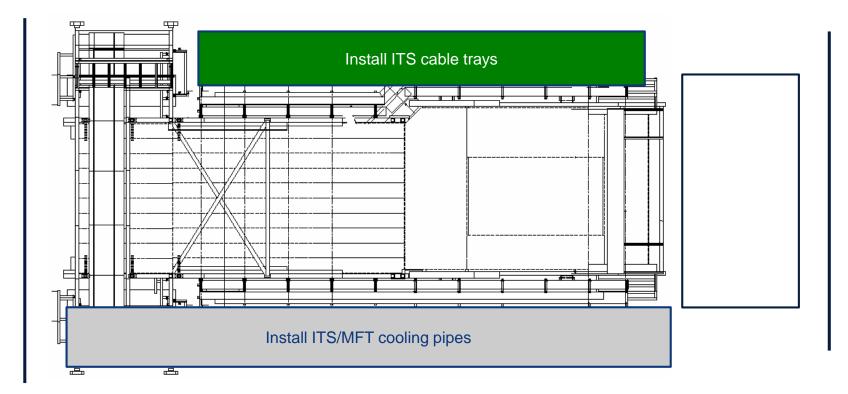






## Miniframe activities w32 – Wed 7 Aug 2019

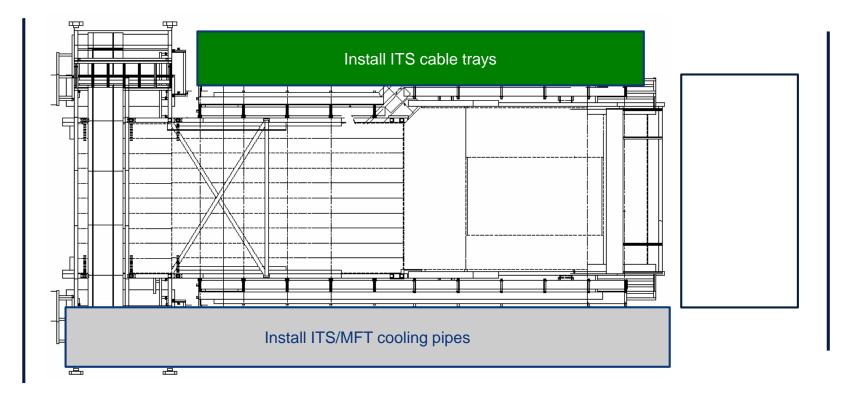






## Miniframe activities w32 – Thu 8 Aug 2019

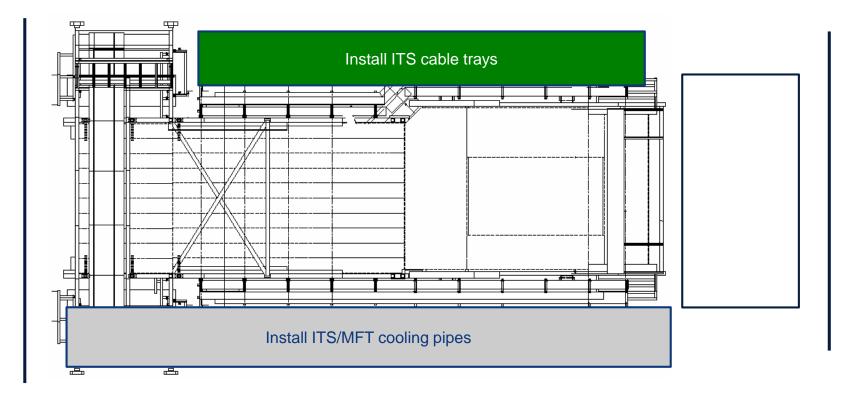






## Miniframe activities w32 – Fri 9 Aug 2019







# Meetings in August



- Next planning meeting on Friday 30 August
- Daily meetings will resume on Monday 26 August

