

LS2 planning meeting

A.Tauro



Safety organisation

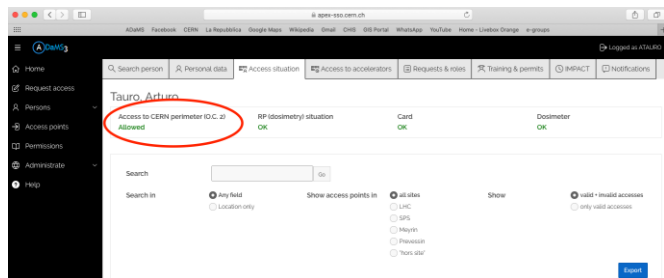
TB 18.6.2020



- Still restricted access to CERN (white list)
- Personnel should come to CERN only if asked by their **supervisor** (or TL)
- **HSE Covid-19 directive: EDMS 2370902**
- **ALICE specific Covid-19 related instructions: EDMS 2369007**
- Please check your **CERN O.C.2 access right** in ADAMS before coming onsite
- Upon arrival, **PPEs** can be collected at the **self-service points**: P2 (b.3294 R-001) or ALICE secretariat (coffee room)
- **IMPACT** not needed anymore for Meyrin site → only for P2



PPE pick-up points (↑P2 and ↓Meyrin)



For any question write to ALICE-covid19-coordination@cern.ch

Safety files

- HSE memo and instructions:
 - HSE Covid-19 directive EDMS 2370902
 - HSE Covid-19 directive contractors EDMS 2373120

DO/2020-103 5 May 2020

EDMS : 2370902

MEMORANDUM

From: Fabiola Gianotti, Director-General, *Fabiola Gianotti*
Doris Forstel-Wirth, Head of the HSE Unit *Doris Forstel-Wirth*

To: Extended Directorate,
Technical Coordinator of the large LHC experiments.

Cc: SAPOCO Chair, President of SA, HSE-MB members, Chair of ACCU

Ref: COVID-19-related health and safety measures for the period covering the rest of CERN's activities

Date: 5th May 2020

The present memorandum defines the general principles and responsibilities regarding the COVID-19-related health and safety measures applicable during the period of CERN's gradual restart following CERN's safe mode in response to the COVID-19 pandemic. It is complemented by detailed instructions given in Annex 1, which will be regularly updated and regular measures to

In accordance with the Organization's contract's recommendations States, by all Health Orga

The principle of planning will require maintained

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05.05.2020 EDMS : 2373120 v.1

CERN Instruction on COVID-19 Health and Safety Measures for contractors

CERN has defined specific COVID-19 related health and safety measures (the "COVID-19 measures") applicable during the period of CERN's gradual restart following CERN's safe mode in response to the COVID-19 pandemic.

In accordance with the CERN Safety Policy, the COVID-19 measures aim at ensuring the best possible protection in health and safety matters of all persons, independently of their status, participating in the Organization's activities or present on its site. They take account of relevant regulations and recommendations issued by authorities or other competent bodies of CERN's Host States or the European Union or by international bodies, such as the World Health Organization.

The COVID-19 measures will apply as from the 5th of May 2020 until they're revoked. They will be regularly reviewed to take account of the evolution of the pandemic and of scientific and regulatory developments related to COVID-19.

Contractors shall ensure that the COVID-19 measures are taken into account in the planning and execution of their activities at CERN and all relevant contractual safety documents shall be updated accordingly. Contractors shall ensure that their activities and personnel comply with the COVID-19 measures. Compliance shall be monitored by CERN in accordance with the applicable procedures, it being understood that compliance with the COVID-19 measures shall be without prejudice to compliance with all other applicable Safety rules and procedures and with applicable national regulations, as the case may be.

1. Individual Responsibility

Each person present on the CERN site shall comply with COVID-19 measures set out hereunder and any instruction given by CERN in relation to its implementation.

1.1 Access to CERN

Contractor personnel shall come on-site only upon agreement with CERN.

1.2 Hygiene measures

- a) Masks¹ shall be worn indoors when other persons are present (shared workspaces) or can be encountered (public spaces). Masks shall also be worn outdoors if the physical distance of two meters cannot be respected. Masks are considered Personal Protective Equipment (PPE) and shall be used and disposed of in accordance with the relevant instructions.
- b) Hand-shaking and other close contacts with colleagues are not allowed;

¹Unless otherwise specified, or where a risk assessment has concluded differently, masks to be worn shall be at minimum surgical masks of type 1 according to EN 14935 standard.

CERN 2020-05-19 1.08 (18) - Released under Public License
CERN COVID-19 Health and Safety Measures - EN.pdf (number 2020-05-19 14:04)

DO/2020-103 EDMS : 2370902

MEMORANDUM

De: F. Gianotti, directrice générale
D. Forstel Wirth, chef de l'unité HSE

À: Directeur(e) et/ou Coordinateurs techniques des grandes expériences LHC

Cc: Président du SAPOCO, Présidente de l'Association du personnel, membres de HSE-MB, Président de l'ACCU

Objet: Mesures de santé et de sécurité relatives au COVID-19 pour la période de reprise des activités du CERN

Date: 5 mai 2020

Le présent mémorandum définit les principes généraux et les responsabilités concernant les mesures de santé et de sécurité relatives au COVID-19 applicables au cours de la période de reprise progressive des activités à la suite de la mise en mode sécurisé du CERN en réponse à la pandémie de COVID-19. Il est complété par les instructions détaillées figurant à l'annexe 1, qui seront réexaminées régulièrement pour tenir compte de l'évolution de la pandémie et des évolutions scientifiques et réglementaires. Une fois le redémarrage du CERN mené à bien, les mesures de santé et de sécurité relatives au COVID-19 seront réexaminées.

Confirmer ont pour sécurité présente d'entrep recevoir des Etat internati

Les princ planifié pouvoir équival

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05.05.2020 EDMS : 2373120 v.1

Instructions du CERN concernant les mesures de santé et de sécurité relatives au COVID-19 pour ce qui concerne les entreprises contractantes

Le CERN a défini des mesures spécifiques de santé et de sécurité relatives au COVID-19 (ci-après « mesures COVID-19 ») applicables au cours de la période de reprise progressive des activités à la suite de la mise en mode sécurisé du CERN en réponse à la pandémie de COVID-19.

Conformément à la Politique de sécurité du CERN, les mesures COVID-19 ont pour but d'assurer la meilleure protection possible en matière de santé et de sécurité de toutes les personnes, quel que soit leur statut, qui participent aux activités de l'Organisation ou sont présentes sur son domaine. Ces mesures tiennent compte des réglementations et recommandations pertinentes émises par les autorités ou d'autres organes compétents des États hôtes du CERN, ou encore par l'Union européenne ou par des organismes internationaux tels que l'Organisation mondiale de la santé.

Les mesures COVID-19 s'appliquent à compter du 5 mai 2020 et jusqu'à ce qu'elles soient abrogées. Elles seront réexaminées régulièrement pour tenir compte de l'évolution de la pandémie et des évolutions scientifiques et réglementaires liées au COVID-19.

Les entreprises contractantes doivent veiller à ce que les mesures COVID-19 soient prises en compte lors de la planification et de l'exécution de leurs activités au CERN. Tous les documents de sécurité contractuels concernés doivent être adaptés en ce sens. Les entreprises contractantes doivent veiller à ce que leurs activités et leur personnel se conforment aux mesures COVID-19. Le respect de ces règles sera vérifié par le CERN conformément aux procédures applicables, étant entendu que l'application des mesures COVID-19 est sans préjudice du respect des autres règles et procédures de sécurité ainsi que des réglementations nationales applicables, in cas échéant.

1. Responsabilité individuelle

Toute personne présente sur le domaine du CERN doit se conformer aux mesures COVID-19 énoncées ci-après, ainsi qu'aux instructions données par le CERN concernant leur mise en œuvre.

1.1 Accès au CERN

a) Le personnel des entreprises contractantes ne peut venir sur le domaine qu'avec l'accord du CERN.

1.2 Mesures d'hygiène

- a) Le port du masque est obligatoire¹ en intérieur quand d'autres personnes sont présentes (espaces de travail partagés) ou peuvent être croisés (espaces publics). Le

¹Sauf indication contraire, ou si une évaluation des risques a abouti à une conclusion différente, les masques à porter sont au minimum des masques chirurgicaux de type 1 conformes à la norme EN 14935.

CERN 2020-05-19 1.08 (18) - Released under Public License
CERN COVID-19 Health and Safety Measures - FR.pdf (number 2020-05-19 14:04)



EN versions

FR versions



19.6.2020

LS2 preparatory meeting

3



Safety files

- HSE memo and instructions:
 - HSE Covid-19 directive EDMS 2370902
 - HSE Covid-19 directive contractors EDMS 2373120
- **HSE FAQ: <https://hse.cern/content/faq-covid-19>**

Health and Safety	
Hygiene	
How do I eliminate my waste linked to COVID-19?	+
How should workstations that are used successively be cleaned (in labos or workshops for example)?	+
How often do we need to clean/disinfect workshops and laboratories?	+
For machines and devices, what disinfectant should be used to avoid damaging material, paint, plastic? How do I apply it?	+
What SCEM code should I use to order these bins?	+

Safety files

- HSE memo and instructions:
 - HSE Covid-19 directive EDMS 2370902
 - HSE Covid-19 directive contractors EDMS 2373120
- HSE FAQ: <https://hse.cern/content/faq-covid-19>
- **ALICE specific instructions:**
 - **EDMS 2369007**

 	ALICE TC - Safety Office	
EDMS Document No: 2369007	Created: 06.05.2020	Page: 1 of 7
	Modified:	Rev. No.: 0.8
<p><i>Implementation of the General Safety Instructions and Guidelines related to the COVID19 Hazard for the ALICE activities</i></p>		
Prepared by: K. Barth , EP-AIO	Checked by: A. Augustinus, EP A. Tauro, EP C. Gargiulo, EP	Approved by: W. Riegler, EP
Distribution List ALICE Members		

Safety files

- HSE memo and instructions:
 - HSE Covid-19 directive EDMS 2370902
 - HSE Covid-19 directive contractors EDMS 2373120
- HSE FAQ: <https://hse.cern/content/faq-covid-19>
- ALICE specific instructions:
 - EDMS 2369007
- **Mandatory to come to CERN:**
 - **Covid-19 safety course**
<https://learninghub.cern.ch>
 - **Attestation de déplacement obligatoire**
<https://cesaam.web.cern.ch>
 - **Valid IMPACT and being in ALICE white list (check O.C. 2 in ADAMS)**

COVID-19 - Health & Safety Measures at CERN / Mesures d'Hygiène et de Sécurité au CERN

Sign to Session

Description and sessions in English

TARGET AUDIENCE

- All personnel coming on the CERN sites (MPE, MPA, Users, Contractors, etc.)

OBJECTIVE

- Enforcement of the COVID-19 health and safety measures

CONTENT

- Protective measures and individual responsibilities
- Specific rules and instructions

IMPORTANT INFORMATION

- Successful completion of this course will be mandatory for access to CERN sites from 18th May onwards.
- The measures described are applicable until further notice. They will be reviewed and updated as function of the evolution of the pandemic and of scientific and regulatory developments related to COVID-19.

Description et sessions en français

PUBLIC CIBLE

- L'ensemble du personnel présent sur les sites du CERN (MPE, MPA, Users, Contractors, etc.)

OBJECTIF

- Application des mesures d'hygiène et de sécurité relatives au COVID-19

CONTENU

- Mesures de protection et responsabilités individuelles
- Règles et instructions spécifiques

INFORMATIONS IMPORTANTES

- La validation de cette formation sera obligatoire pour accéder aux sites du CERN à partir du 18 mai.
- Les mesures présentées sont applicables jusqu'à nouvel ordre. Elles seront ré-évaluées et mises à jour en fonction de l'évolution de la pandémie et des développements scientifiques et réglementaires relatifs au COVID-19.

Learning Type: Programme

Domain: Safety and Health (SH)

Format: 13 min e-learning

Contact: safety-training@cern.ch

Course code: STCD091

Click on the arrow below button to enroll on the complete group of learning modules listed below:

Sessions: COVID-19 - Health & Safety Measures at CERN | Available Seats: Unlimited

COVID-19 - health & Safety Measures at CERN

European Organization for Nuclear Research
Organisation européenne pour la recherche nucléaire

CERN
Espérance des Particules 1,
CH-1211 Genève 23

Tel: +41 22 767 5152 ou +41 22 767 2848
mots: secretariat@cern.ch

Genève, le 18.03.2020

ATTESTATION

Le CERN atteste que [redacted] de nationalité italienne, domicilié(e) [redacted], France, titulaire du/des document(s) suivant(s) :

Carte de légitimation [redacted]
Titre de séjour spécial N° [redacted]

est appelé(e) à circuler entre son domicile et les installations du CERN situées en Suisse et en France, dans le cadre de ses activités indispensables pour assurer la sécurité et la sûreté des sites et des équipements de l'Organisation.

Les autorités de contrôle peuvent s'adresser aux instances ci-dessous qui disposent de la liste des bénéficiaires de la présente attestation :

- Mission permanente de la Suisse à Genève (geneve.oj@eda.admin.ch) ; tél. +41 58 482 24 24).
- Sous-Préfecture de Gex (sp-gex@gain.gouv.fr) ; +33 4 50 41 84 97).
- Service des relations avec les pays-hôtes du CERN (relations.secretariat@cern.ch) ; tél. +41 22 767 51 52 ou +41 22 767 28 48).

Fabrice Giamatti
La Directrice générale

home.cern

ADAMS3

Logged as FREID

Home | Search person | Personal data | Access situation | Access to accelerators | Requests & roles | Training & permits | IMPACT

Notifications

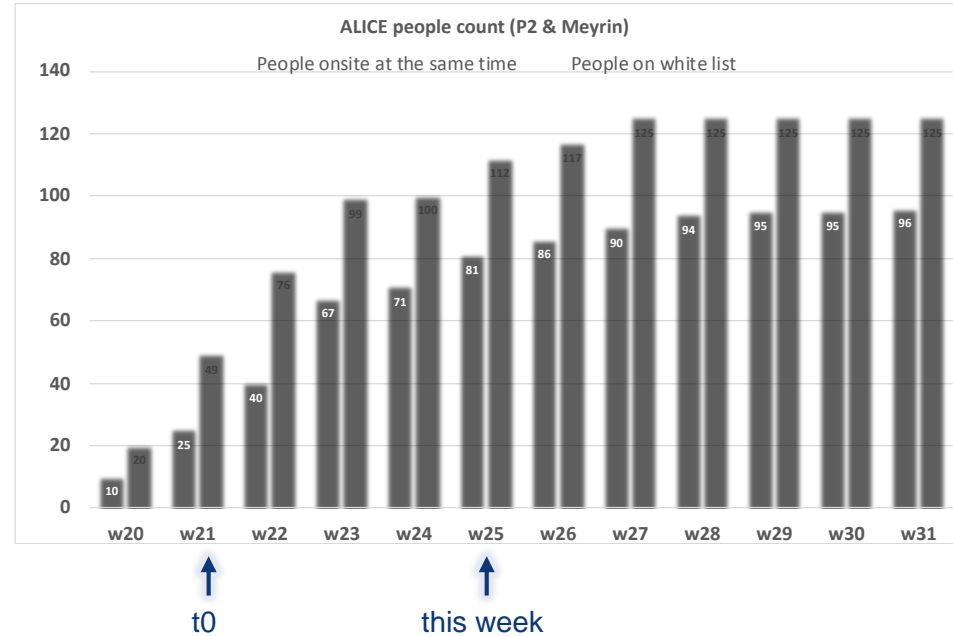
Access to CERN perimeter (O.C. 2) Not_allowed	RP (dosimetry) situation OK	Card OK	Dosimeter OK
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Gradual return of people to CERN

TB 18.6.2020



- Personnel onsite:
 - All **EP-DT technicians** back at 100%
 - **Cabling team** 100%
 - Contractors, FSUs
 - Some **users**: TOF, MCH, TPC, TRD, MFT, ITS, EMC
 - **CERN team** at different percentages (still many people TW)
- Main activities:
 - **P2**: TPC, TOF, DCS, MCH, services
 - **Meyrin**: MFT, ITS, EMC, CTP, workshops



Max number of people onsite not a bottleneck

Summary of when experiments can be ready to close caverns after LS2

Large uncertainties as discussed in experiments presentations

	J	F	M	A	M	J	J	A	S	O	N	D	J	F
LHC (3mth shift)	H/W commissioning					Training		com. w/ beam	rampup					
ALICE														
ATLAS (no NSW-C)														
ATLAS* (w/ NSW-C)														
CMS											Shielding work needed for HL R3			
LHCb														

CMS can be ready for beam by Oct 1st, but would then need 21/22 EYETS to install shielding before HL R3 running.

Current hope is NSW-C could be installed with ATLAS ready for beam Feb 1st 2022 (TBC).

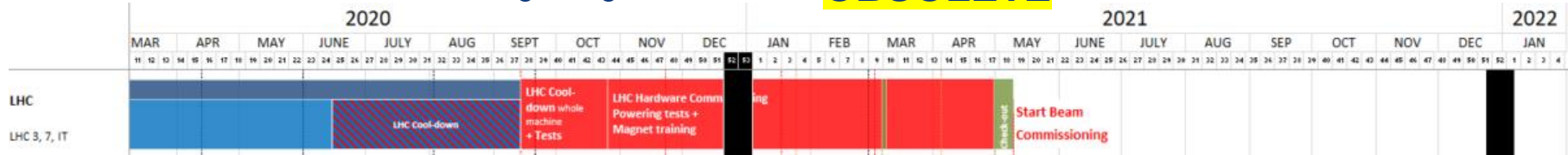
All experiments can efficiently use time between when they are ready and end-Oct / end-Jan. ⁷

LS2 LHC Master Schedule evolutions

LS2C 12.6.2020
Marzia Bernardini

EDMS ACC-PM-MS-0002 v.2.5 → beginning March 2020

OBSOLETE

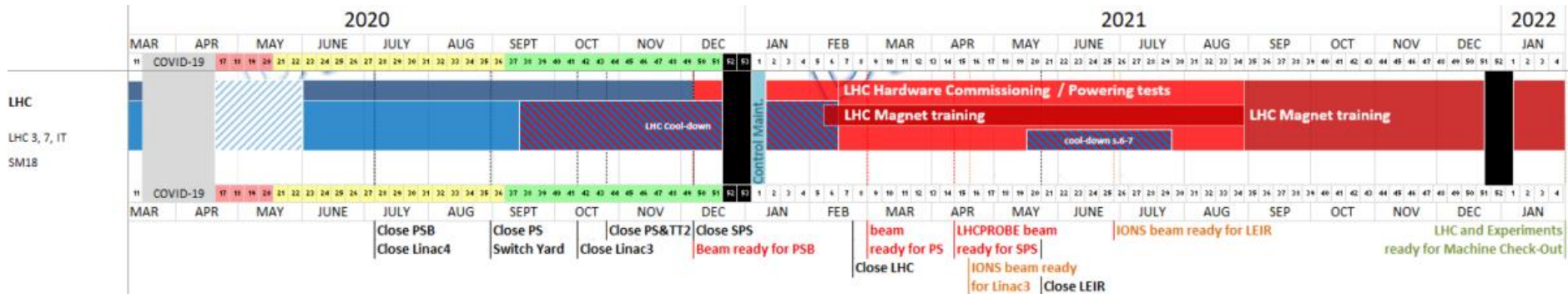


EDMS ACC-PM-MS-0002 v.2.6 → 8th May 2020

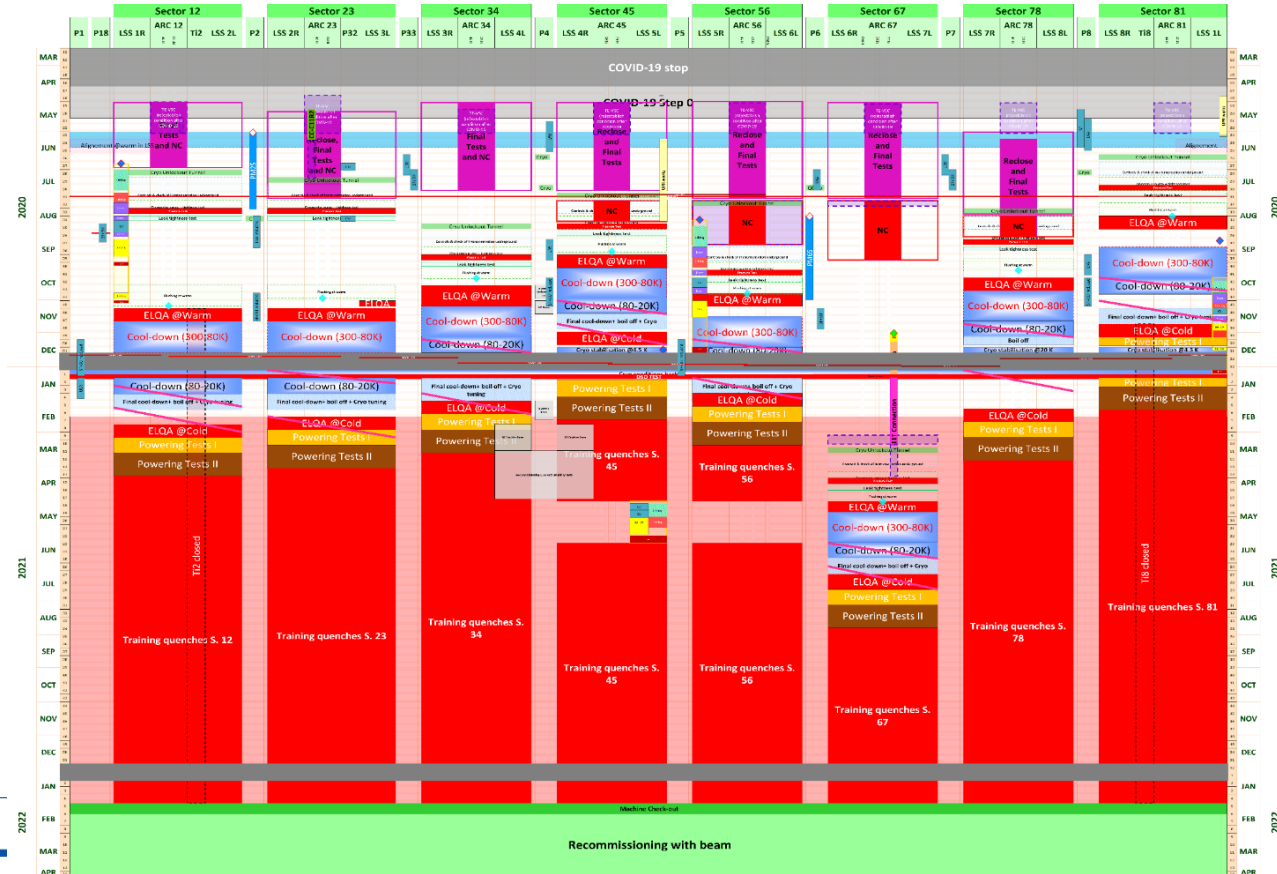
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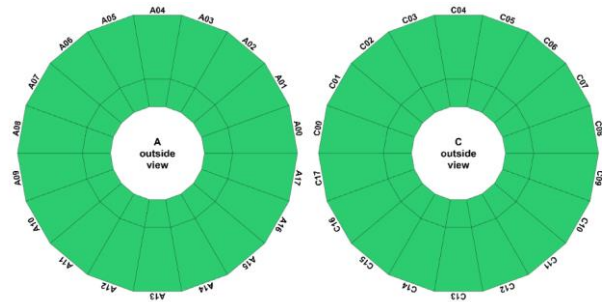
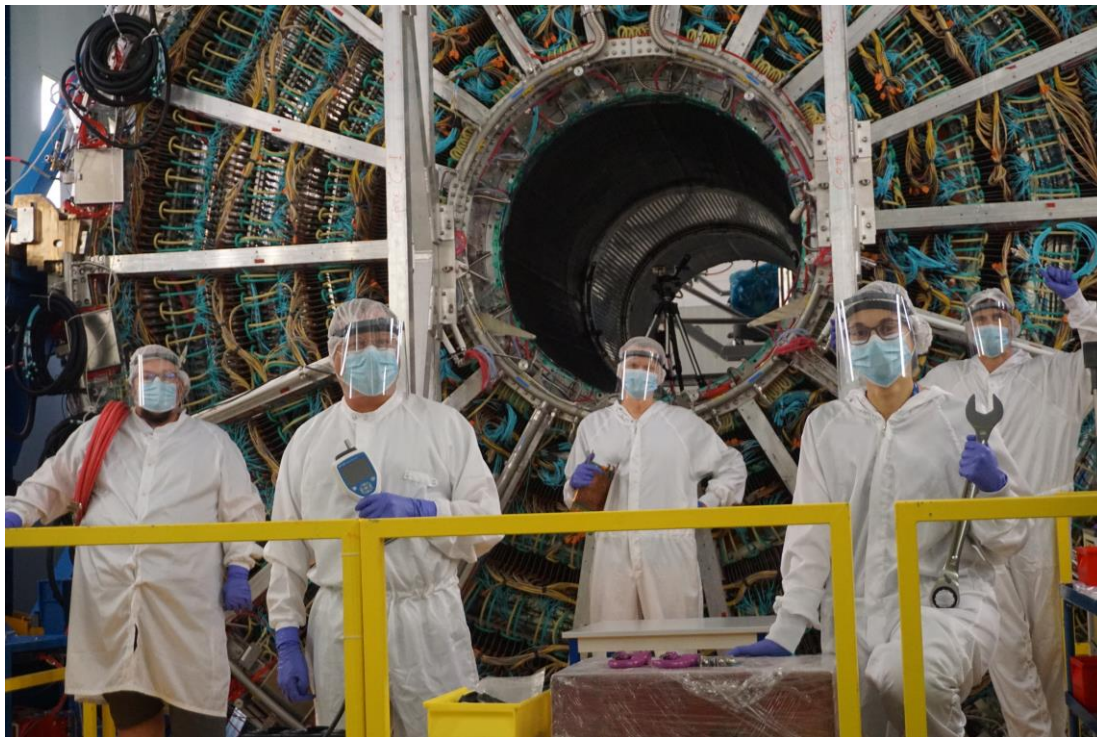
EDMS ACC-PM-MS-0002 v.2.7 → 12th June 2020 → NEW



LHC LS2 Baseline V2.5 FRAME 12th June LHC-PM-MS-0018 v.2.5



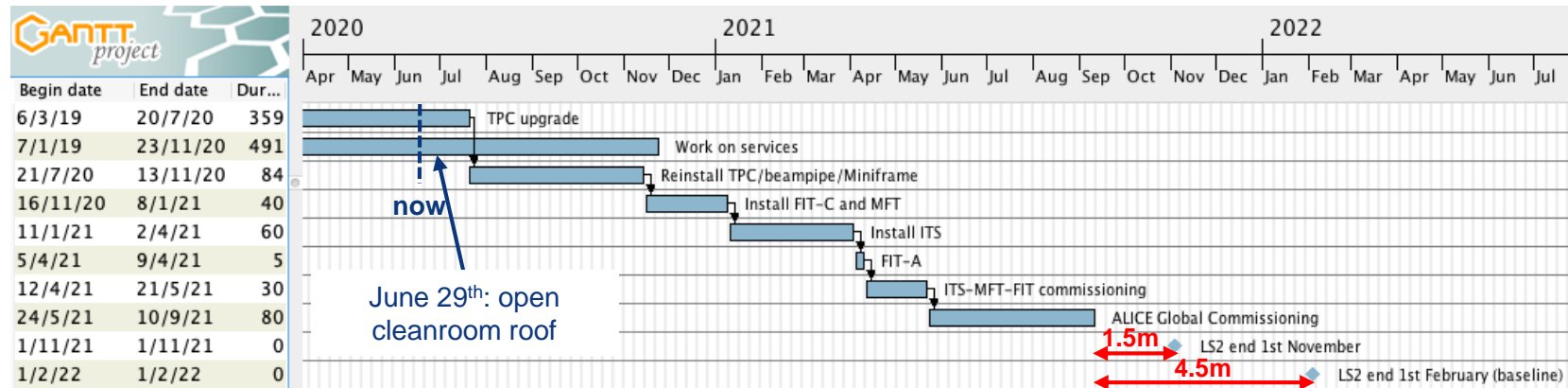
TPC Sector Recommissioning Completed



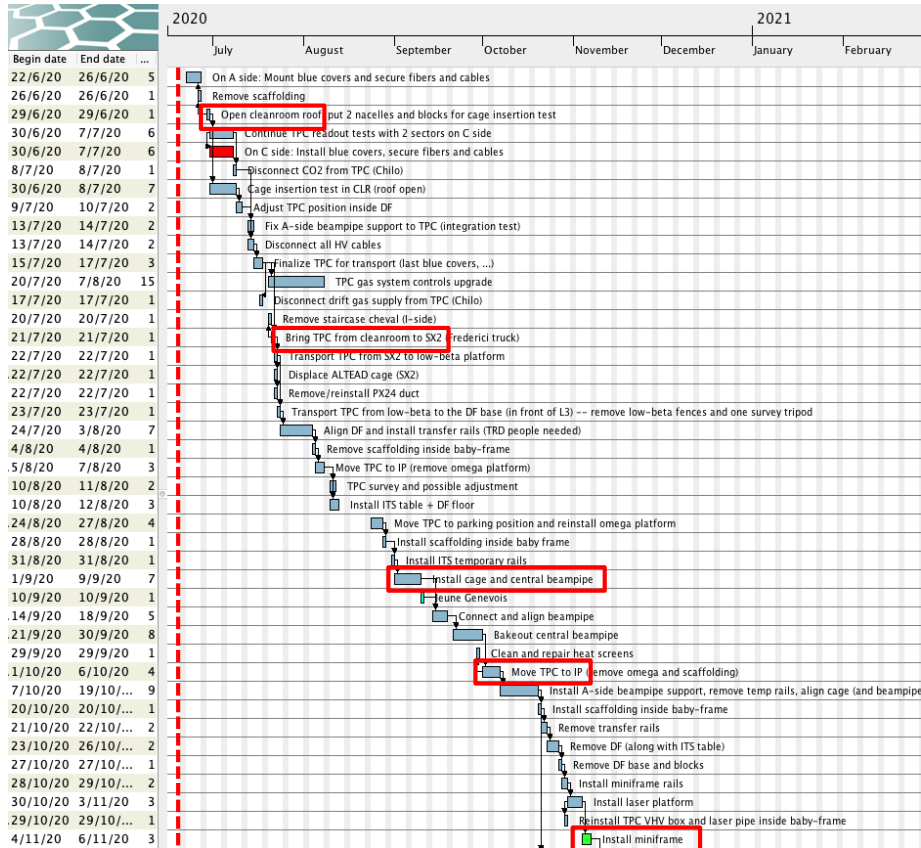
Thanks to all people involved in pre-commissioning

Detector installation sequence – new schedule v39

- New schedule v39:
 - **Restart the detector installation sequence on June 29th** (instead of July 1st)
 - **TPC/beampipe/Miniframe sequence slightly adjusted to account for manpower constraints in July/August** → 1w shift wrt previous schedule (v38)
 - **16w global commissioning at the end** (24 May to 10 September 2021)
- RB24 beampipe reinstalled by end April 2021 → OK to inject low intensity beam by September 2021
- The present plan foresees 1.5 and 4.5 months contingency with respect to the LS2 end date of 1st November 2021 and 1st February 2022 respectively



TPC/beampipe/Miniframe reinstatement sequence



Jun 29th – open cleanroom roof and start cage insertion test

Jun 30th - Jul 20th - complete TPC commissioning and cage insertion test

Jul 21st - transportation TPC to SX2

Jul 22nd - Aug 31st - reinstall TPC

TPC moved to IP, adjusted and put back to parking position

Sep 1st - 9th install cage and central beampipe

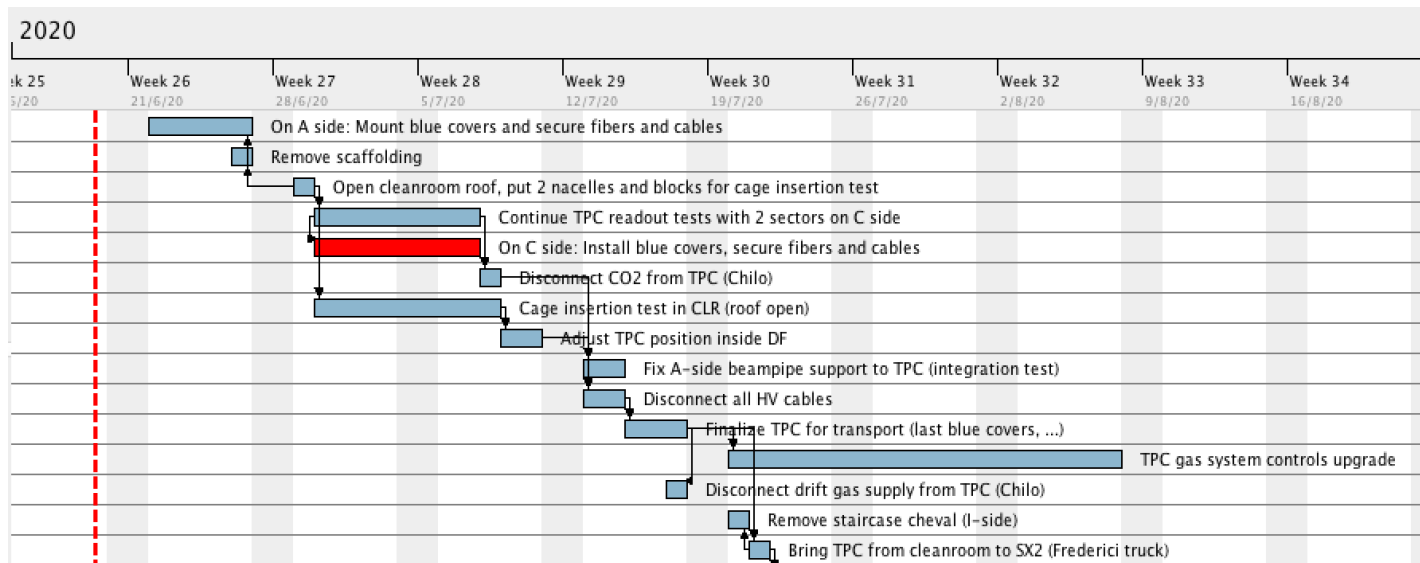
Sep 14th - 30th - connect, align and bakeout beampipe

Oct 1st - 6th - move TPC to IP - start connection TPC to services

Oct 7th - Nov 3rd - prepare miniframe installation

Nov 4th - 6th - reinstall miniframe

Detailed sequence 4 coming weeks



After successful sector commissioning, the TPC started high rate X-ray tests last Friday. Two IROCs started to show problems

→

Meeting next week to decide whether we replace these two TPC chambers, in which case this plan will change !!!

→ One with increased current. Apparently decreasing now ...

Key dates

TB 18.6.2020



Activity	v39
Open cleanroom roof, start cage insertion test	29 Jun 2020
Move TPC to SX2	21 Jul
Install TPC (parking position)	22 Jul – 31 Aug
Install cage and central beampipe	1 – 30 Sep
Move TPC to IP	1 – 6 Oct
Install Miniframe	4 – 6 Nov
MFT & FIT-C installation and checks	16 Nov – 8 Jan
FDD-C installation*	Before 6 Nov
FDD-A installation	30 Nov – 7 Dec
ITS installation and checks	11 Jan – 2 Apr 2021
FIT-A installation	5 – 9 Apr
ITS & MFT commissioning time	1 ½ months (6w)
ALICE global commissioning time	3.5 months (16w)
End of LS2 – stop UX25 access (baseline)	1 Feb 2022
End of LS2 – stop UX25 access (option 1)	1 Nov 2021

* Requires LHC tunnel access → to be done before cool down S23 (starting in w46 2020) or between w1 and w5 2021



IMPACT list 1/4



155488	Approved	HSE-OHS-PE	Alice	Lifting equipment	Inspections de sécurité des équipements de levage	3	Inspections de sécurité des nacelles élévatrices ...
155411	In progress	EP-UAI	Alice	ITS (all)	ALICE - ITS2 - OB stave verification - 301		Restarting of the on-surface commissioning
155340	In progress	EP-AIO	Alice	Other	Miniframe modification TC technicians		Miniframe modification TC technicians
155200	In progress	EN-HE-HEM	Alice	Cranes	Maintenance du PR-774 en UX25	2	Maintenance du PR-774 en UX25
155157	In progress	EN-EL-FC	Alice	Electricity	Optical Fibres - ALICE DAQ Upgrade LS2	5	Installation of optical fibre cables between: CR...
155153	In progress	EP-UAI	Alice	TOF	TOF DRM2 installation	3	TOF DRM2 installation
155104	In progress	EP-UAT	Alice	SCT	ATLAS SCT 48V power supply development	3	ATLAS SCT 48 V power supply development ap...
155100	In progress	EP-UAT	Alice	SCT	ATLAS SCT 48V power supply development	3	ATLAS SCT 48 V power supply development ap...
155089	In progress	EN-EL-MT	Alice	E - Electricity	contrôle du fonctionnement des éclairage sécurités LED du PX24	2	contrôle du fonctionnement des éclairage sécur...
154732	Approved	EP-UAI	Alice	Other	the data analysis		the data analysis to be in time for Rochester co...
154717	In progress	EP-UAI	Alice	Muon Trigger	MID readout crate installation INSIDE	4	Muon IDENTIFIER (MID) : Readout Crate install...
154675	In progress	EP-DT-DI	Alice	Solenoid (L3)	ALICE -Magnet Control System upgrade	3	To upgrade the magnet control system, PLC rep...

IMPACT list 2/4



Activity	Status	Resp. Group	Facility	System	Title	Max. N° Participants	Description
154572 ⇓ ⇓ ⇓	In progress	EP-AID-DT	Alice	ITS (all)	ITS Upgrade Commissioning Work	1	ITS Upgrade Commissioning Work
154561 ⇓ ⇓ ⇓	In progress	EN-CV-LHC	Alice	Cooling & Ventilation	Tours & urgent CV interventions	2	this impact will be used for the EN-CV tours + i...
154510 ⇓ ⇓ ⇓	In progress	EP-AIO	Alice	Other	TSO access to bldg 301/160/161	1	TSO access to bldg 301/160/161
154490 ⇓ ⇓ ⇓	In progress	EP-UAI	Alice	TRD	TRD Wiener PSUs labelling and disconnection	1	TRD Wiener PSUs labelling and disconnection
154456 ⇓ ⇓ ⇓	In progress	EP-AID-DT	Alice	Other	Onsite standby during ITS outer barrel verification	1	Working from office to be ready for intervention
154395 ⇓ ⇓ ⇓	In progress	EP-UAI	Alice	TPC	CR1 access during TPC Upgrade in the cleanroom (Covid Restart Ph...	2	Access to the SXL2 cleanroom for the TPCU-rel...
154284 ⇓ ⇓ ⇓	In progress	EN-EA-AS	Alice	Tech. Infrastructure	ALICE - Cabling activities EA - connectors assembly - June 2020	4	ALICE - Cabling activities EA - connectors asse...
154283 ⇓ ⇓ ⇓	In progress	EP-ADE-TK	Alice	X - Experimental and...	FASER Tracker Plane Commissioning	5	Commissioning test of the tracker planes with S...

IMPACT list 3/4

Activity	Status	Resp. Group	Facility	System	Title	Max. N° Participants	Description
154242 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EP-UAI	Alice	Muon Tracker	ALICE MUON TRACKING: resuming work in cavern	2	Resuming MCH activities in cavern with 2 peopl...
153997 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EP-UAI	Alice	Other	MFT activities (Covid Restart Phase 1)	6	Access to DSF and bldg 581 for MFT local team
153828 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EN-EA-AS	Alice	Tech. Infrastructure	ALICE - Cabling activities EA - connectors assembly - Week 22	2	ALICE - Cabling activities EA - connectors asse...
153825 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EN-EA-AS	Alice	TRD	Montage/démontage échafaudages en UX25.	6	Mise en place d'échafaudages(pose/dépose) po...
153782 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EP-DT-EO	Alice	ITS (all)	Cage interface verification in the SXL2 (Covid Restart Phase 1)		Cage and TPC interfaces verification including C...
153732 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EN-HE-HH	Alice	ITS (all)	Transport activities UX25	3	Transport activities UX25
153523 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EP-AID-DC	Alice	Other	Racks modification TC technicians		Modification of ITS racks TC technicians
153269 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EP-UAI	Alice	EMCAL	EMCAL FEE testing/validation in EMCAL lab	1	Restart of EMCAL activities during phase 2 of re...
152936 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EN-EA-AS	Alice	Tech. Infrastructure	ALICE - Cabling activities EA - Supervision et visite preparation	1	ALICE - Cabling activities EA - supervision et vis...
152868 ⇓ ⇓ ⇓ ⇓ ⇓	In progress	EP-AID-DT	Alice	ITS (all)	ALICE - ITS2 - OB stave verification - 167/23		Restarting of the on-surface commissioning

IMPACT list 4/4



Activity	Status	Resp. Group	Facility	System	Title	Max. N° Participants	Description
152746 ⇓ ⇓ ⇓	In progress	EP-AID-DC	Alice	DCS	DCS activities on-site	2	Restart of DCS activities on-site.
152596 ⇓ ⇓ ⇓	In progress	EP-UAI	Alice	TPC	TPC Upgrade in the SXL2 cleanroom (Covid Restart Phase 1)		Access to the SXL2 cleanroom for the TPCU-rel...
152524 ⇓ ⇓ ⇓	In progress	EP-UAI	Alice	DAQ	Installation of DAQ services		Installation of DAQ services and test
152251 ⇓ ⇓ ⇓	In progress	EP-AID-DC	Alice	Other	Alice COVID-19 inspection rounds	4	inspection rounds for ALICE during the CERN C...
151348 ⇓ ⇓ ⇓	In progress	EP-AIO	Alice	ITS (all)	Installation inox pipes (Rampower)	30	Installation inox pipes (Rampower)
146929 ⇓ ⇓ ⇓	In progress	SMB-SIS	Alice	Other	Nettoyage caverne Alice et sanitaires	2	Caverne 2228 (UX25) 1 fois / semaine (2 perso...
130410 ⇓ ⇓ ⇓	In progress	EP-AID-DA	Alice	DAQ	CR1 FLP team access		IMPACT to grant access to CR1 for FLP team ac...
107531 ⇓ ⇓ ⇓	In progress	EP-DT-EO	Alice	Other	P2 coordination and technicians activities	50	P2 ccoordination and technicians activities
11042 ⇓ ⇓ ⇓	In progress	EP-AIO	Alice	ITS (all)	Cavern supervision	1	Cavern supervision

CR3 status

TB 18.6.2020



- All **new DCS servers** installed in CR3 racks (w21)
- Installation of **new racks** completed (w23)
- **TOF** slow-control Linux cluster moved to new racks (w24)
- **To be done:** electrical connection of the new racks (EL) and network infrastructure (IT)



DCS servers



DCS servers



Removal old racks



TOF servers

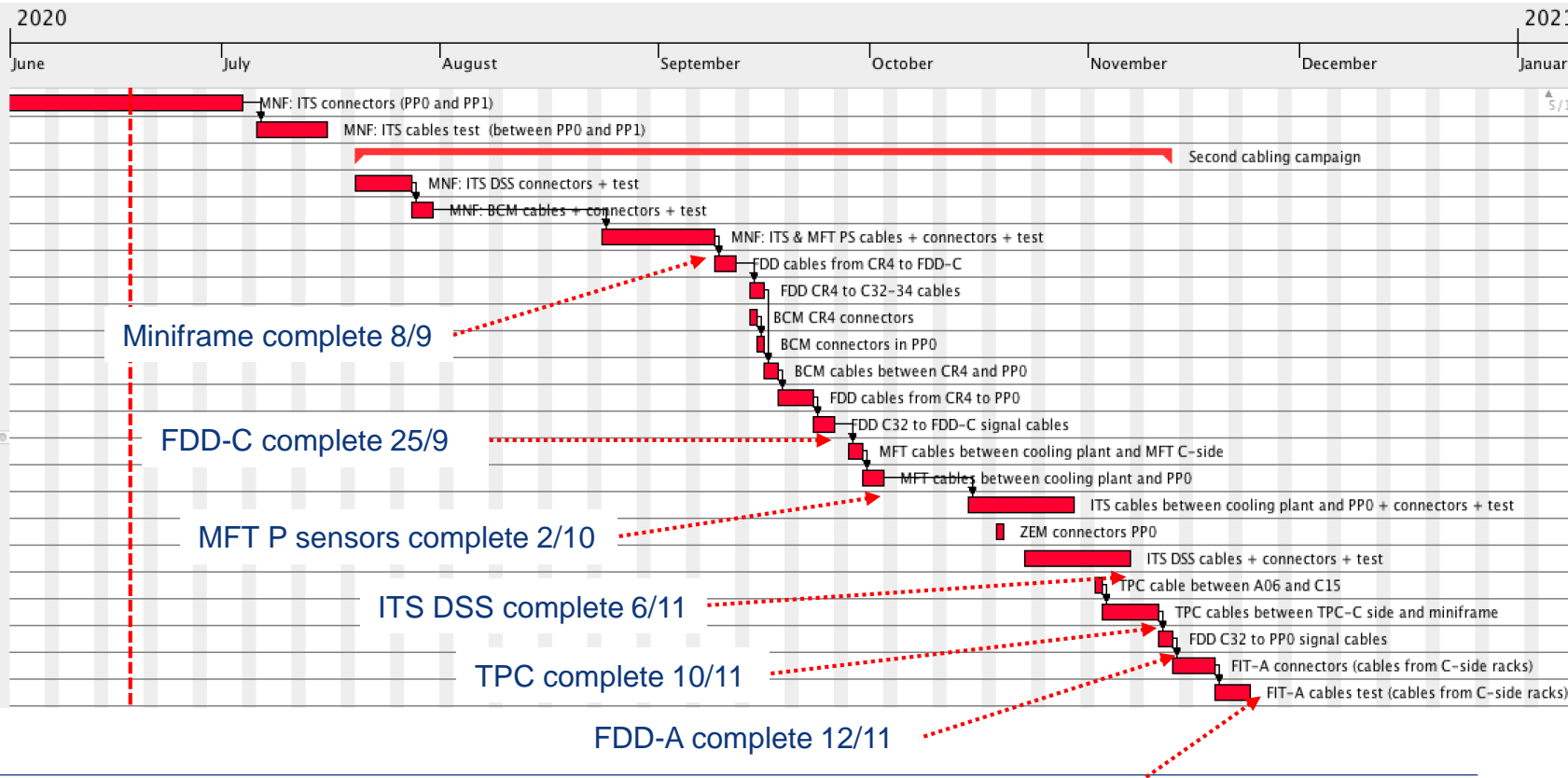
CR3 status (A.Augustinus)

- February
 - Modify water circuit (add TA valves CR3 and CR4) – kept DCS up and running – DONE (10.02 – 21.02)
 - Additional rack installed for extension of main network starpoint outside CR2
 - Arrival of new racks (25.02)
 - Installation 1st row of racks (26.02)
- March, April, May
 - *COVID closure*
 - Arrival of new servers (28.04, originally foreseen end of March)
 - Installation of the servers in the new racks – DONE (finished 15.05)
 - Remove TOF cluster – DONE (26.05), last racks removed – DONE (28.05)
- June
 - Installation of 2nd row of new racks - DONE (03.06)
 - Re-installation TOF cluster – DONE and tested (08.06)
 - Installation network fibres for network – DONE (17.06); final tests to be done 25.06
- July – August – September
 - Reconnection new racks to electricity – dates t.b.c.
 - Installation of network infrastructure (some network interruptions to be foreseen, details to be defined with IT-CS) – dates t.b.c.
 - Migration from old servers to new servers (first central systems, then detector systems)
- October – November
 - Removal of old servers and last old racks

Cabling: new planning after Covid-19

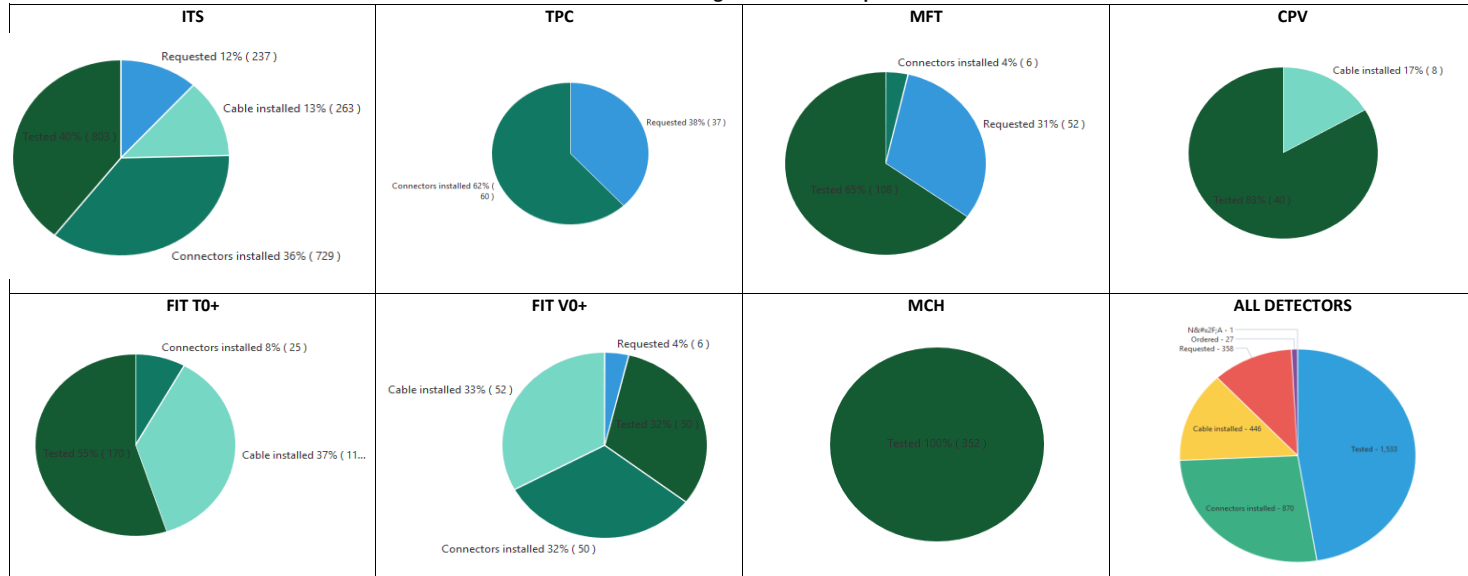


Begin date	End date	D...
4/2/20	3/7/20	1...
6/7/20	15/7/20	8
20/7/20	12/11/...	84
20/7/20	27/7/20	6
28/7/20	30/7/20	3
24/8/20	8/9/20	12
9/9/20	11/9/20	3
14/9/20	15/9/20	2
14/9/20	14/9/20	1
15/9/20	15/9/20	1
16/9/20	17/9/20	2
18/9/20	22/9/20	3
23/9/20	25/9/20	3
28/9/20	29/9/20	2
30/9/20	2/10/20	3
15/10/20	29/10/...	11
19/10/20	19/10/...	1
23/10/20	6/11/20	11
2/11/20	2/11/20	1
3/11/20	10/11/...	6
11/11/20	12/11/...	2
13/11/20	18/11/...	4
19/11/20	23/11/...	3



Cabling progress

ALICE LS2 - EN-EA cabling control follow-up 19-06-2020

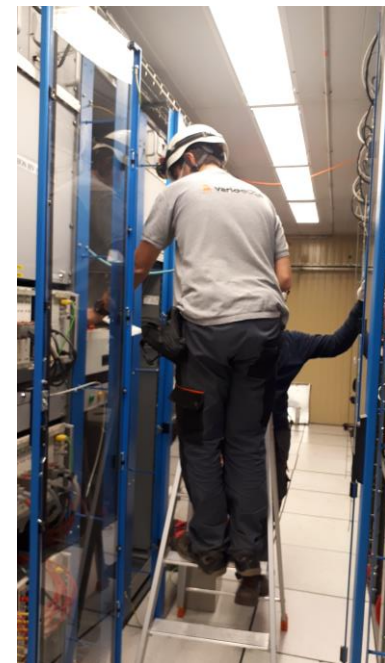
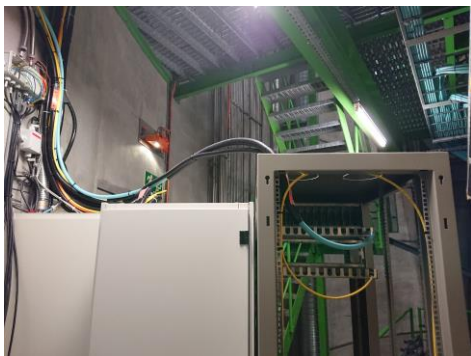


Optical fibers (EN-EL)

TB 18.6.2020



- Done last week:
 - Installation and test **TPC** fibers between CR4 and CR1
 - Installation and test fibers for **IT** (for upgraded network) from CR2 starpoint to CR1 and to CR3
- To be done:
 - Cleaning **TRD trigger fibers** connectors and replacement of damaged ones
 - Procurement 2 x **FDD** optical cables (requested in March 2020)
 - Test **HMPID** fiber ageing (next week)
 - Installation TPC optical fiber un the cavern between A and C-sides
 - Unfold and connect **ITS** and **TPC** trunk cables → after miniframe installation in November

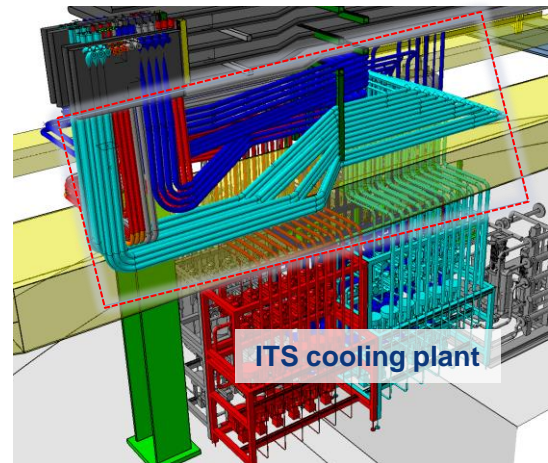
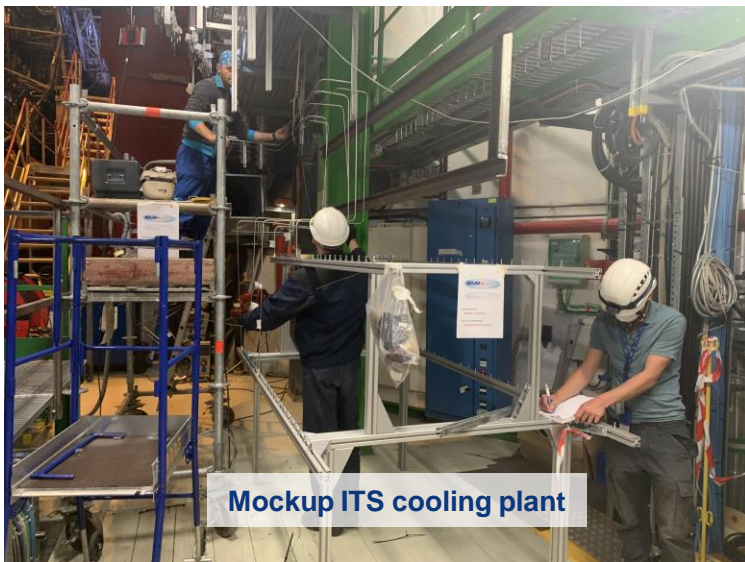


ITS and MFT inox pipes (Rampower)

TB 18.6.2020



- Work restarted two weeks ago: finalize ITS and MFT connections to cooling plant
- Pipework should be completed by end July
- Verified ITS cooling plant installation sequence (transport at Meyrin, P2, installation in the pit)



Remaining pipework to be done

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: 17 July 2020 → not affect LHC (we will be repowered from the machine network)
- **Test secours (10 min at 6:00 AM): 30 July 2020**
 - Will cut everything that is not on UPS (max. 10 minutes CERN-wide cut)
 - At P2 the racks in UX and CR are not affected, nor CR0
 - Only general services will be cut
 - This will affect all P2 buildings including SX2 and SXL2 (cleanroom)
 - Services like gas, circulation of mixed and iced water and ventilation will be affected
 - As this is CERN-wide, also offices, labs etc. in Meyrin will be affected.

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) – **not done**
- **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~~
 - ~~Gas extraction: w8/2019~~
 - ~~UX25 cavern: w2/2020~~
 - ~~MCH and MTG: Mon-Thu - w3/2020~~
 - L3: need to replace extractor → 2 days stop → will cut flammable gases (maybe in week 17) - 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.

Racks status

- Racks currently powered on:
 - HMPID: I01, I02
 - PHOS-CPV: A16, A17
 - CTP: C21, C22, C24, C25, C26, C27 (CTP) (and VME crates on)
 - MCH: C08, C10, C37, C39
 - TOF: O03, O04, O05, O30, O31, O32, I03, I04, I05, I30, I31, I32
 - TRD: O06, O08, O26-29, I06, I08, I26-29, C16-19, C29
 - Dcal, EMcal: A14, O12
- Detectors can be powered, compatible with current activities inside L3

Other activities

2020:

- Renovation PM25 access system (PAD-MAD): w41-43 (5-23 Oct)
- LASS functional test: ~~no access to UX25 on Friday 30 Oct 2020 whole day (weekend 31 Oct /1 Nov 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:

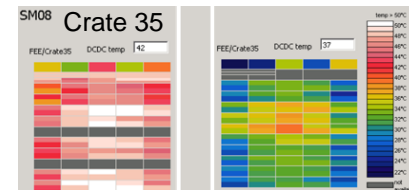
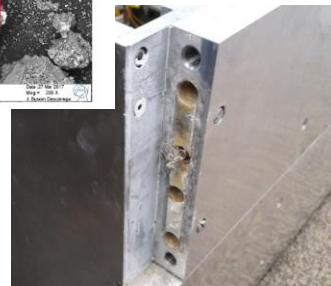
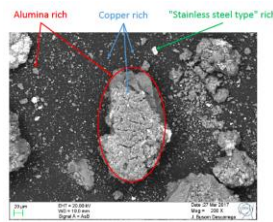
- For powering permit: w1 2021 (tbc) (needed to start LHC powering test)
- For RF recommissioning LSS4: w7 2021
- For powering permit, following UPR53 installation: date tbd
- For beam permit: date tbd
- LHC sector test (beam through ALICE): ~~no access to UX25 from 26 to 29 March 2021~~

Update about TOF cooling issue

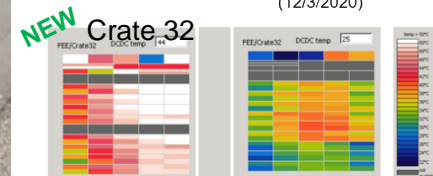
TB 18.6.2020



- TOF crates partially clogged since 2017
- Issue: coexistence of Cu (PHOS/CPV/EMC) and Alu (TOF) → **galvanic corrosion**
- Mitigation solutions: add corrosion inhibitor + periodic monitoring of the water quality + water replacement when needed
- **Ad hoc intervention done by TOF team:** flush pressurized industrial acid + demi. water in crates 35 (March 2020) and crate 32 (June 2020) → **720 readout channels recovered** (= 3 TRM cards)



Before → After cleaning (12/3/2020)



Before → After cleaning (12/6/2020)

Issue gas dewars foundation at P2

TB 18.6.2020



- Concrete slab where N_2 and A_r dewars are standing is in very bad shape
- Critical safety issue especially during refilling operations – dewars could get displaced and damage pipes
- EN-EA proposes to consolidate the slab and redo the piping before the end of LS2
- Cost (still preliminary): 50kCHF civil engineering (SMB) and 100kCHF pipework (EN-EA) → paid by LETEM budget

L3 transformers status

TB 18.6.2020



- We have **3 transformers** in total:
 - **T1** was reinstalled after a thorough inspection in Germany (Miebach)
 - **T2** still in Germany, will be return soon to CERN
 - A **spare transformer Ts**, consolidated in 2017, was used to commission the L3 magnet in the late '80s
- T1 seems in a lot worse shape than the others (see TB 27.11.2019), therefore TE-EPC proposes to **leave out T1 and use Ts + T2 for the upcoming run**
- A **24h magnet test** will be scheduled towards the end of this year (this will also be the occasion to test the new cooling plant for the power converter)
- **L3 doors** will be anyhow **closed**, for a test, after the miniframe installation in November

Restroom tent b.6952



- Reserved to personnel working for ALICE
- Replaces the SX2 kitchen
- Max 20 persons
- People should clean the place after usage (detergent available)

- BBQ is open (no external people)

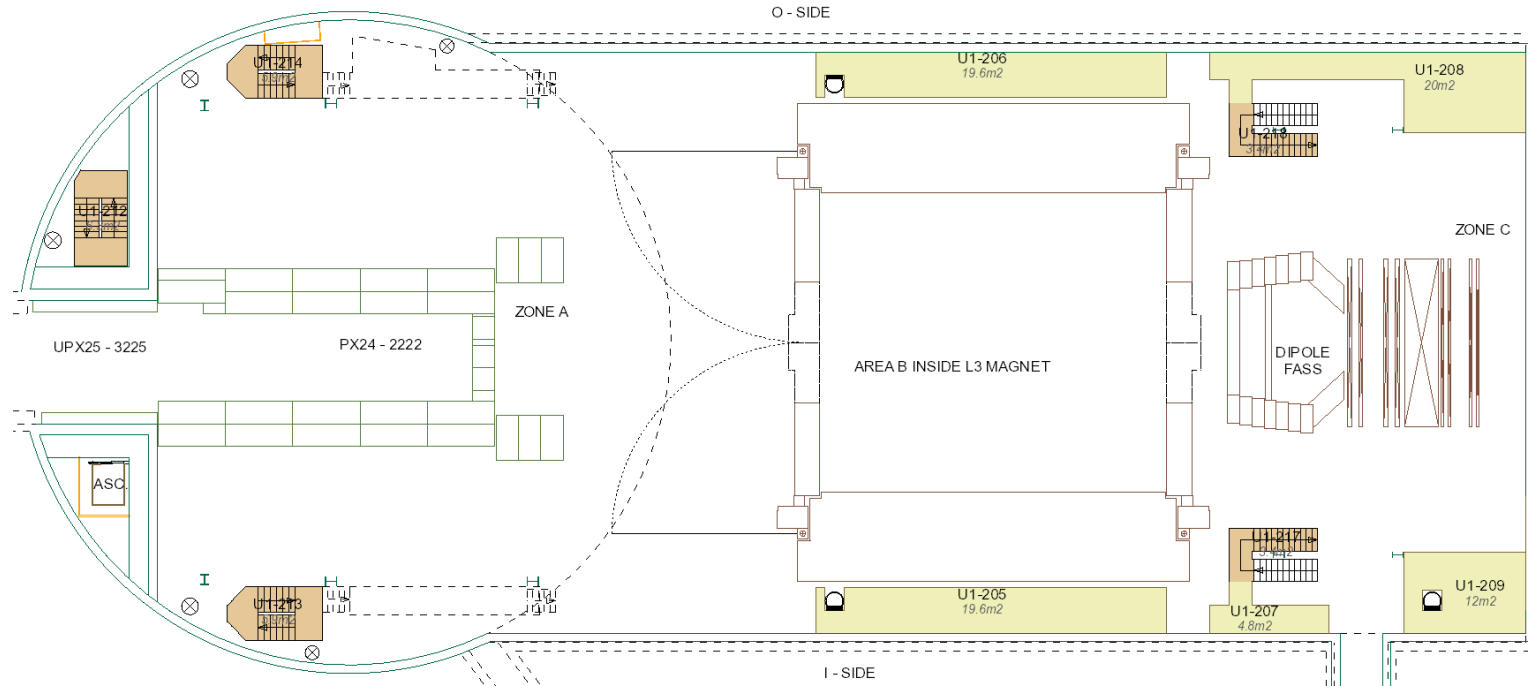
- Pls contact TC for any issue related to this area

Day-by-day sequence w23



UX25 activities w23 – Mon 1 Jun 2020

CERN official holiday



UX25 activities w23 – Tue 2 Jun 2020

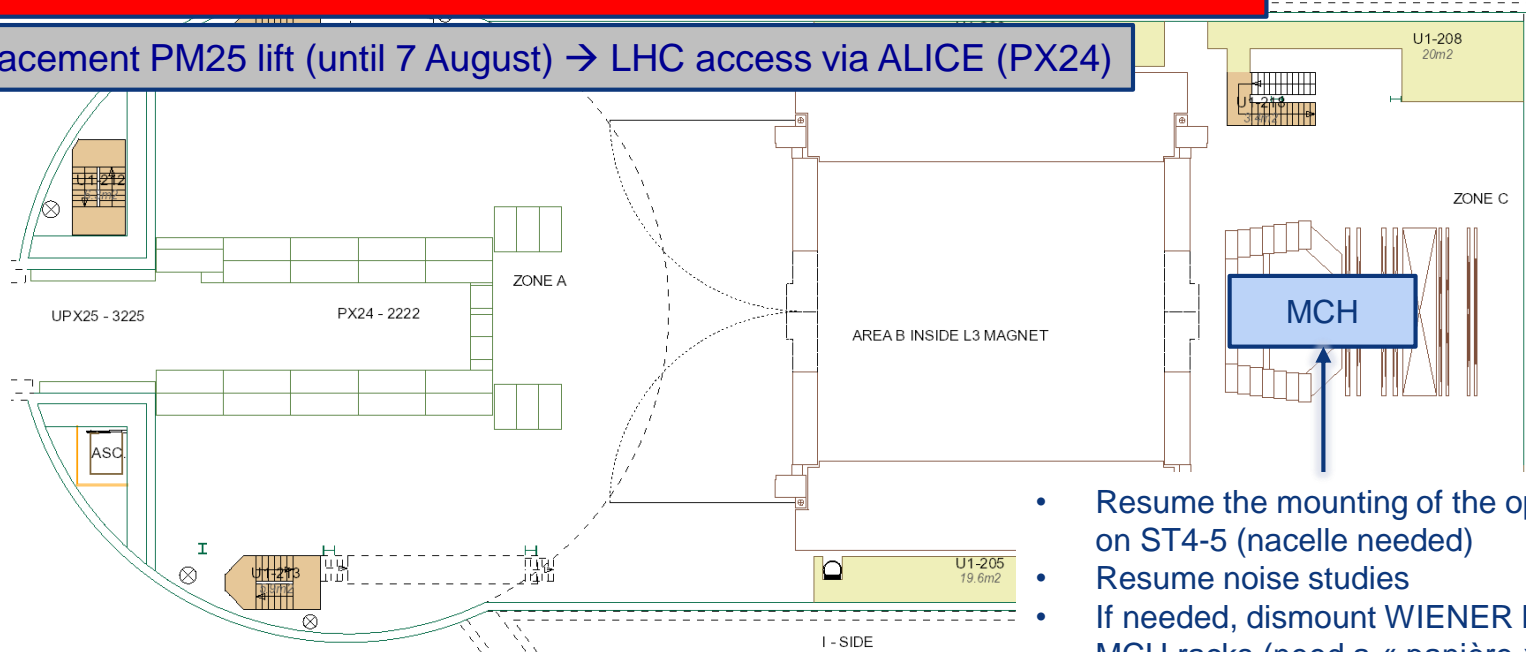
Cleaning cavern (Topnet): 13:00 to 15:00

CR3: weld rails for new racks (Cedric, Philippe)

CR3: install new racks (ALTEAD, Philippe, Cedric)

Maintenance cavern lift: no access UX25 cavern between 6:00 AM and 8:00 AM

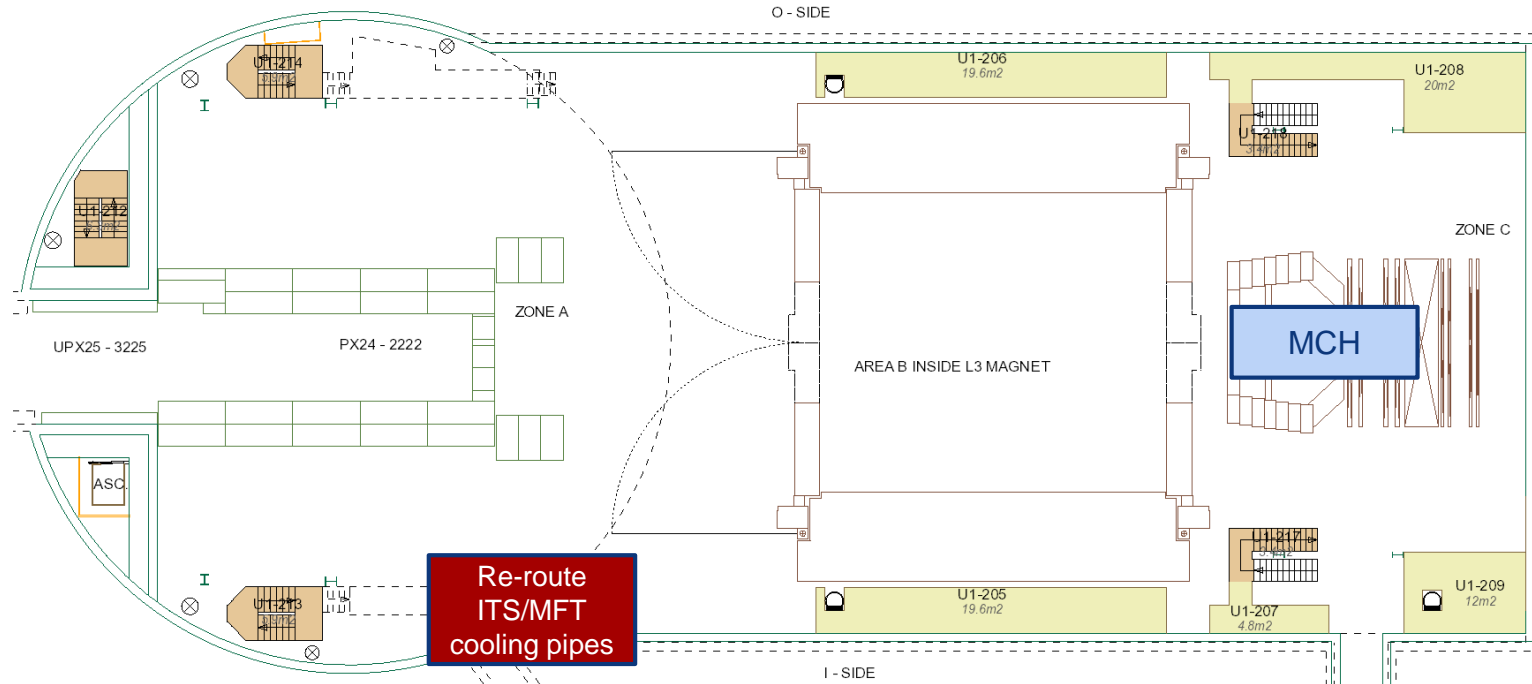
Replacement PM25 lift (until 7 August) → LHC access via ALICE (PX24)



- Resume the mounting of the optical fibres on ST4-5 (nacelle needed)
- Resume noise studies
- If needed, dismount WIENER LVPS from MCH racks (need a « panier » to put them and crane to lift to the surface)

UX25 activities w23 – Wed 3 Jun 2020

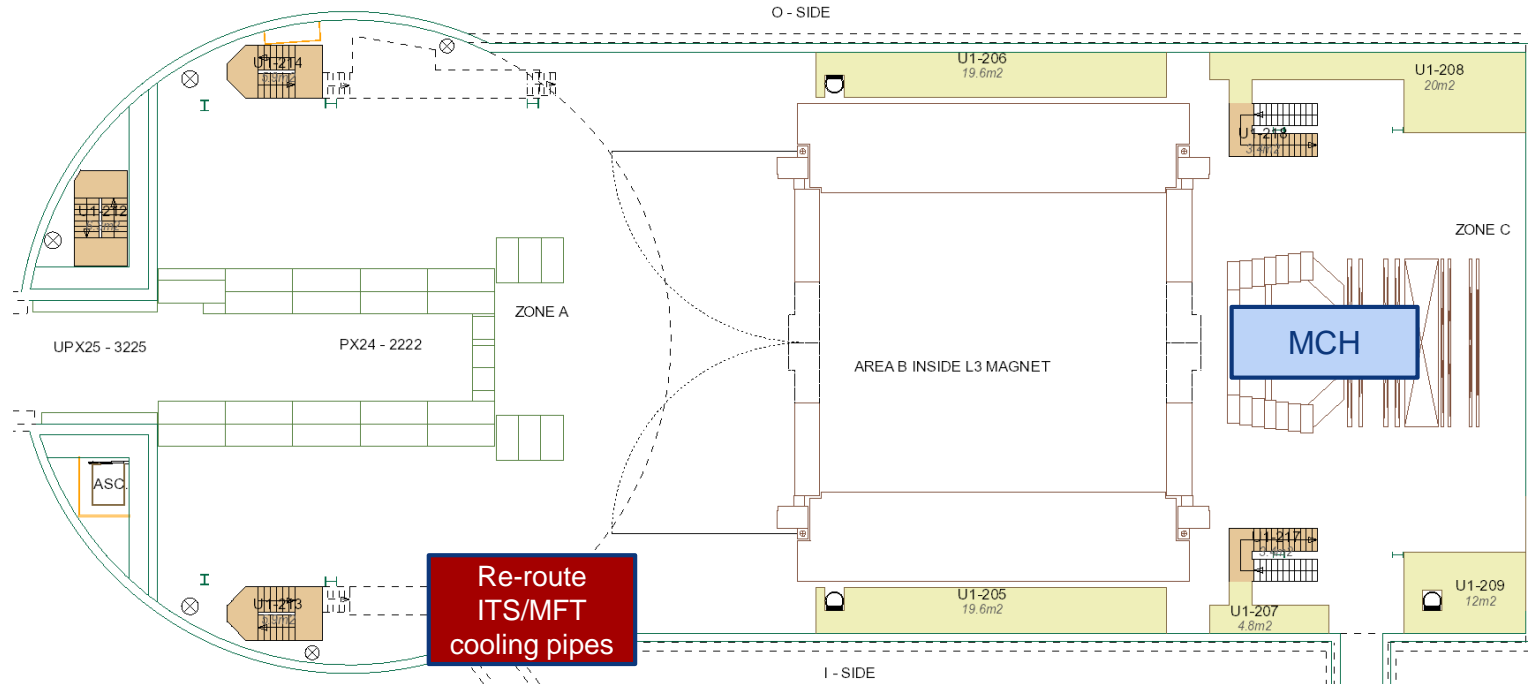
CR3: install new racks (ALTEAD, Philippe)



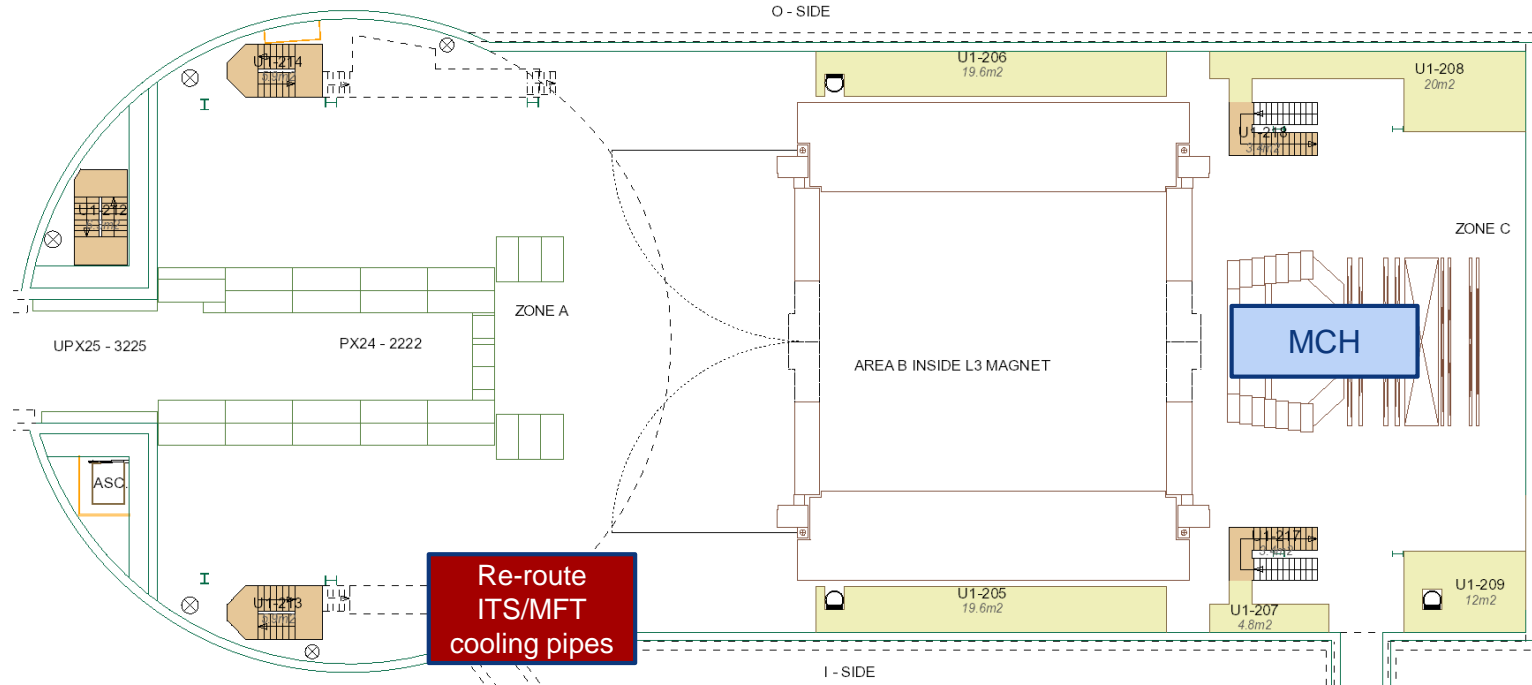
UX25 activities w23 – Thu 4 Jun 2020

Training: Wiener LVPS repair (Philippe, Evgeny)

Installation 8 tables + benches b.6952 (outside tent)

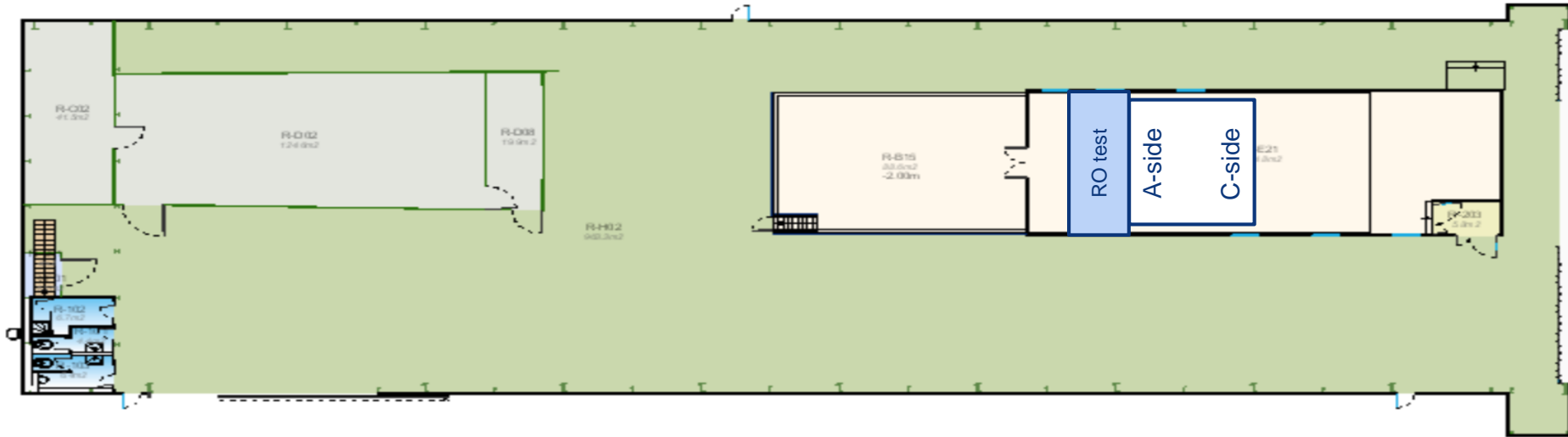


UX25 activities w23 – Fri 5 Jun 2020

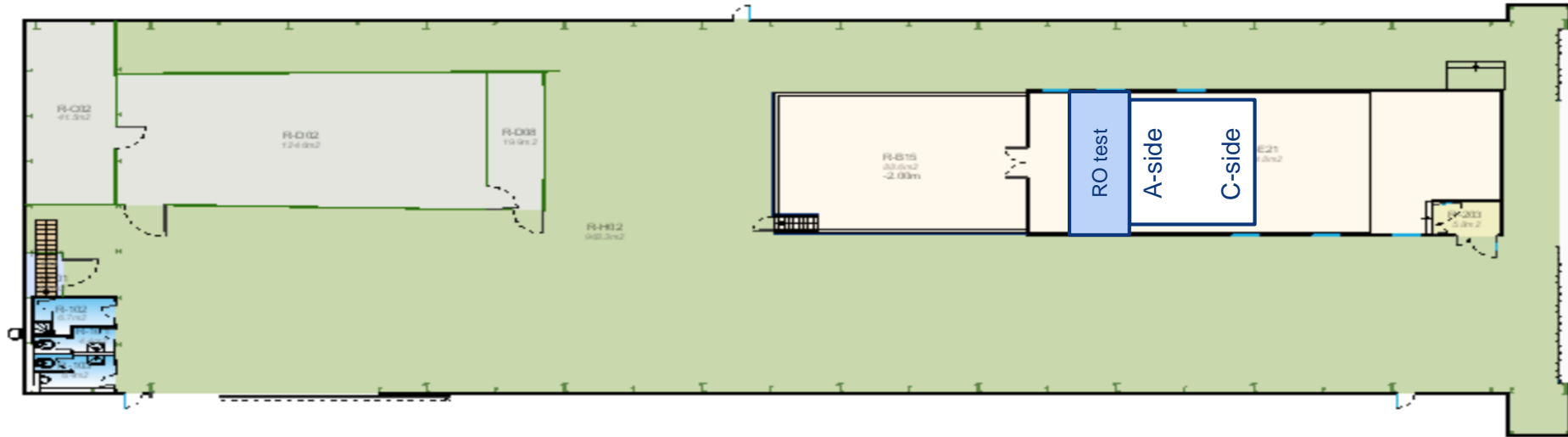


SXL2 activities w23 – Mon 1 Jun 2020

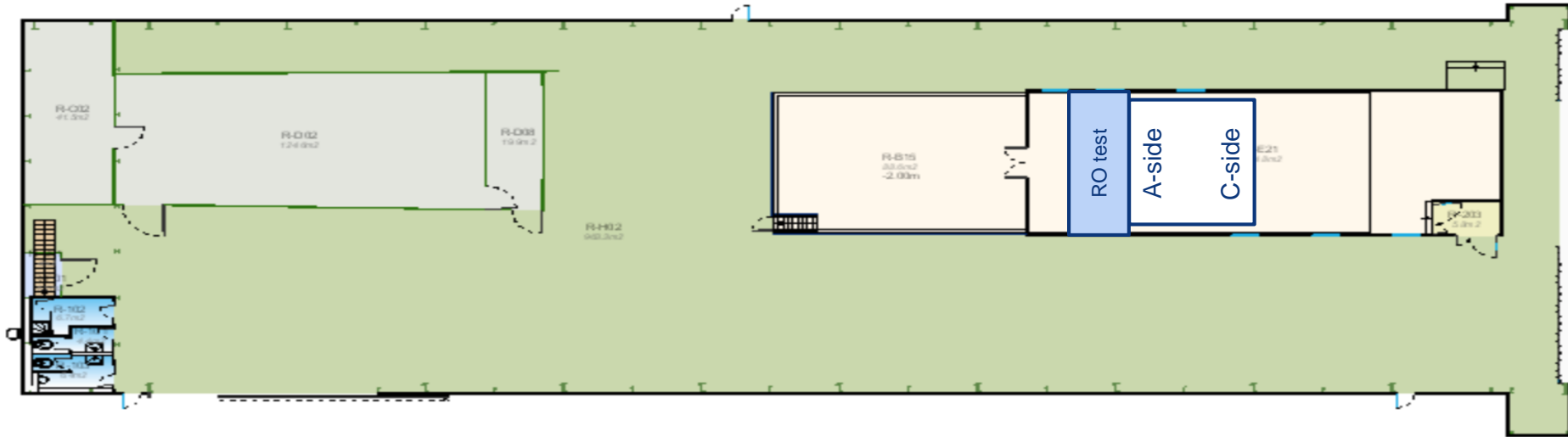
CERN official holiday



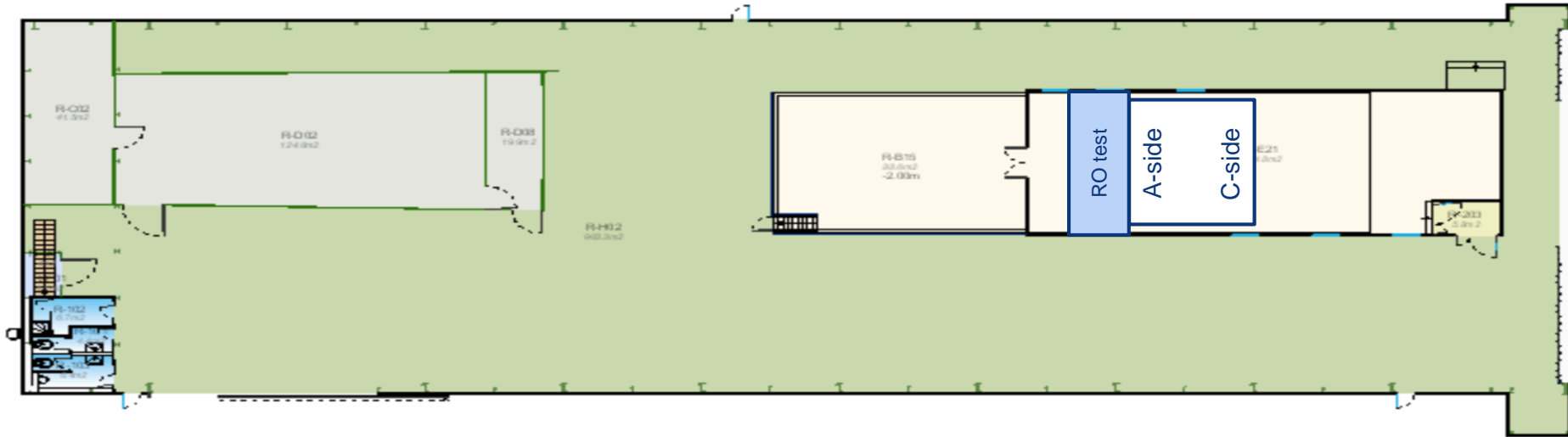
SXL2 activities w23 – Tue 2 Jun 2020



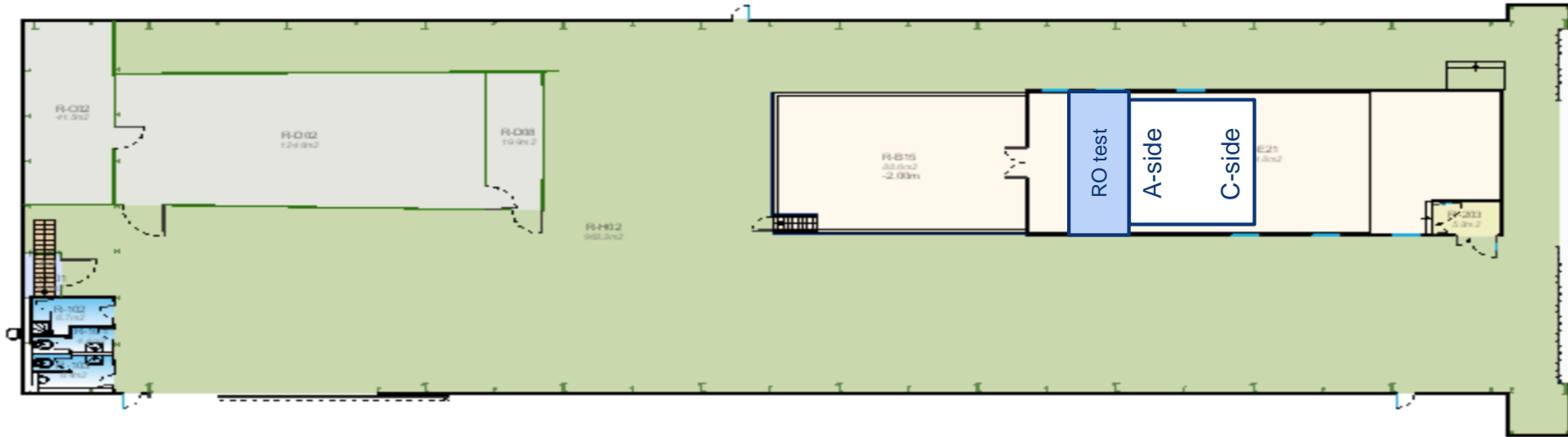
SXL2 activities w23 – Wed 3 Jun 2020



SXL2 activities w23 – Thu 4 Jun 2020

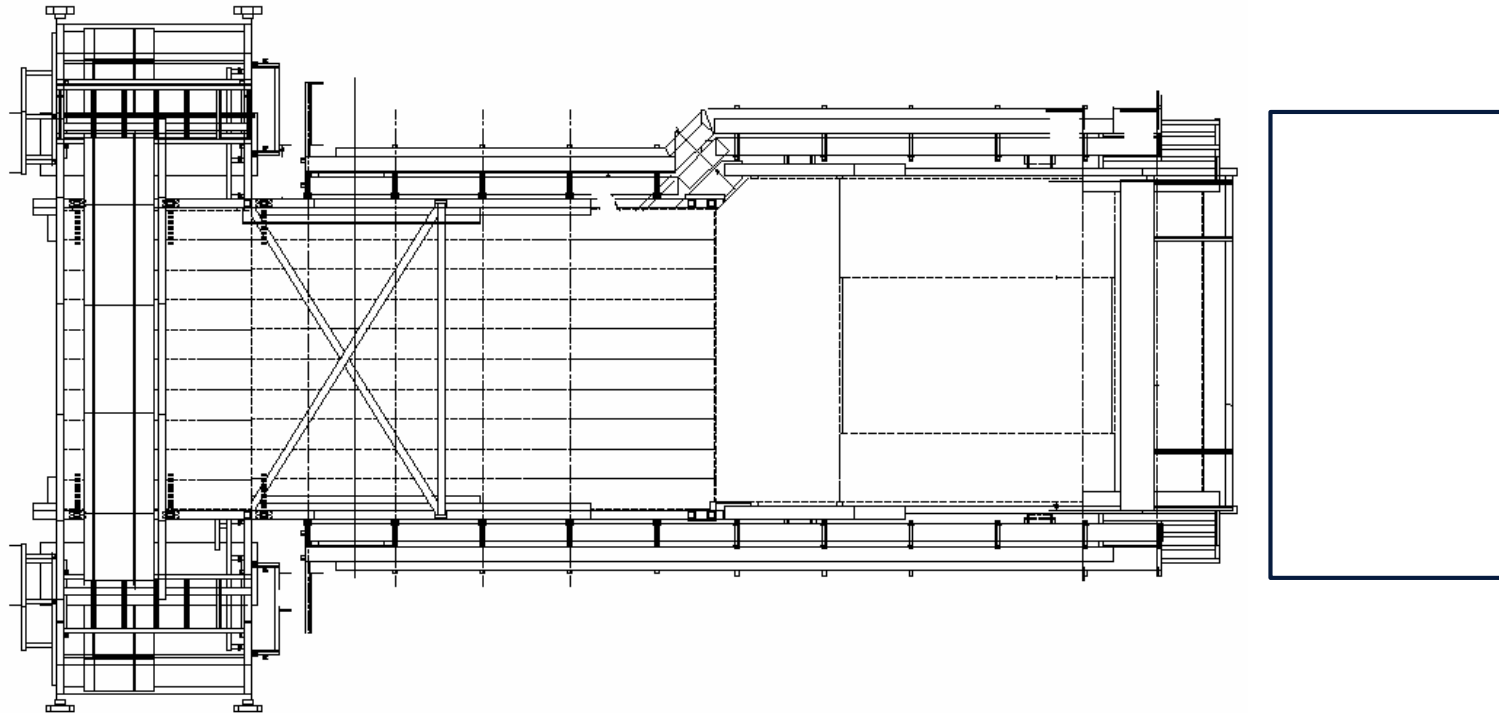


SXL2 activities w23 – Fri 5 Jun 2020

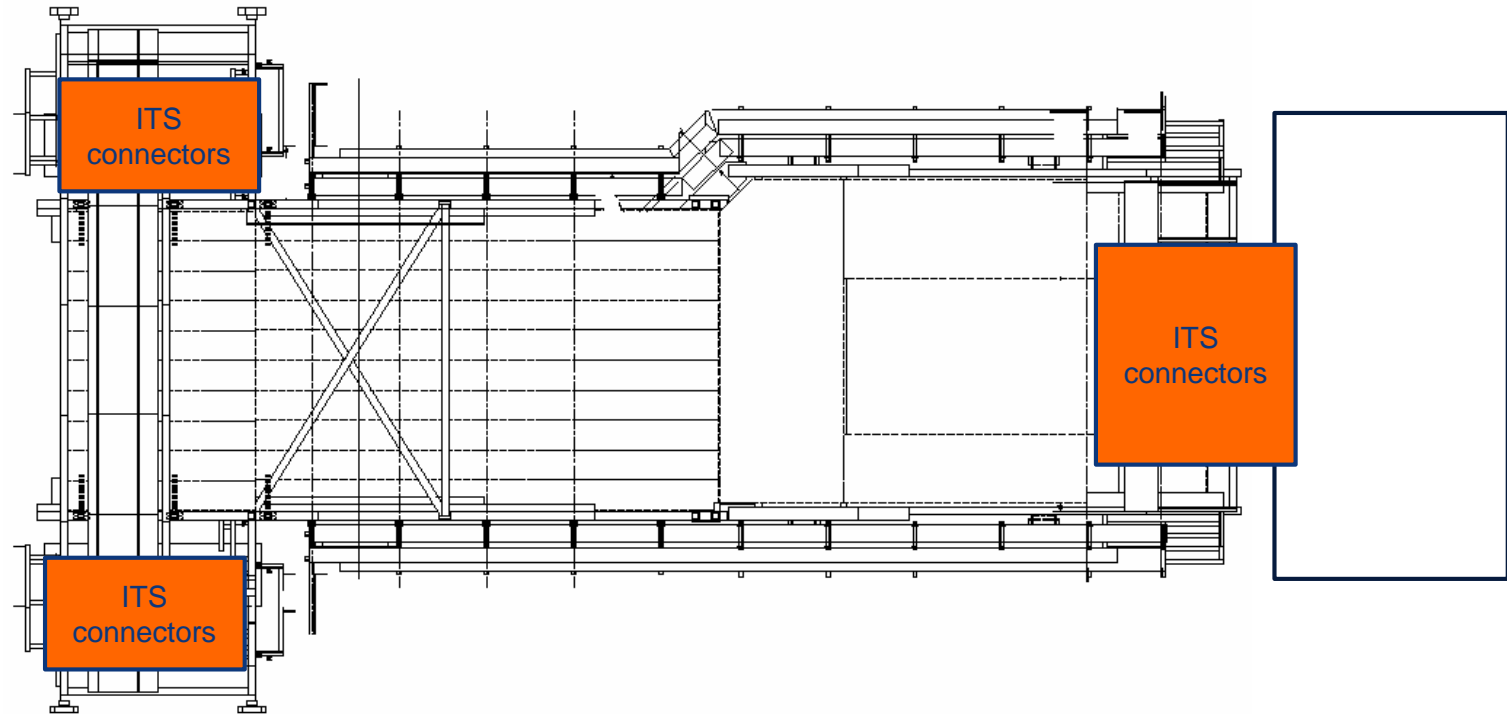


Miniframe activities w23 – Mon 1 Jun 2020

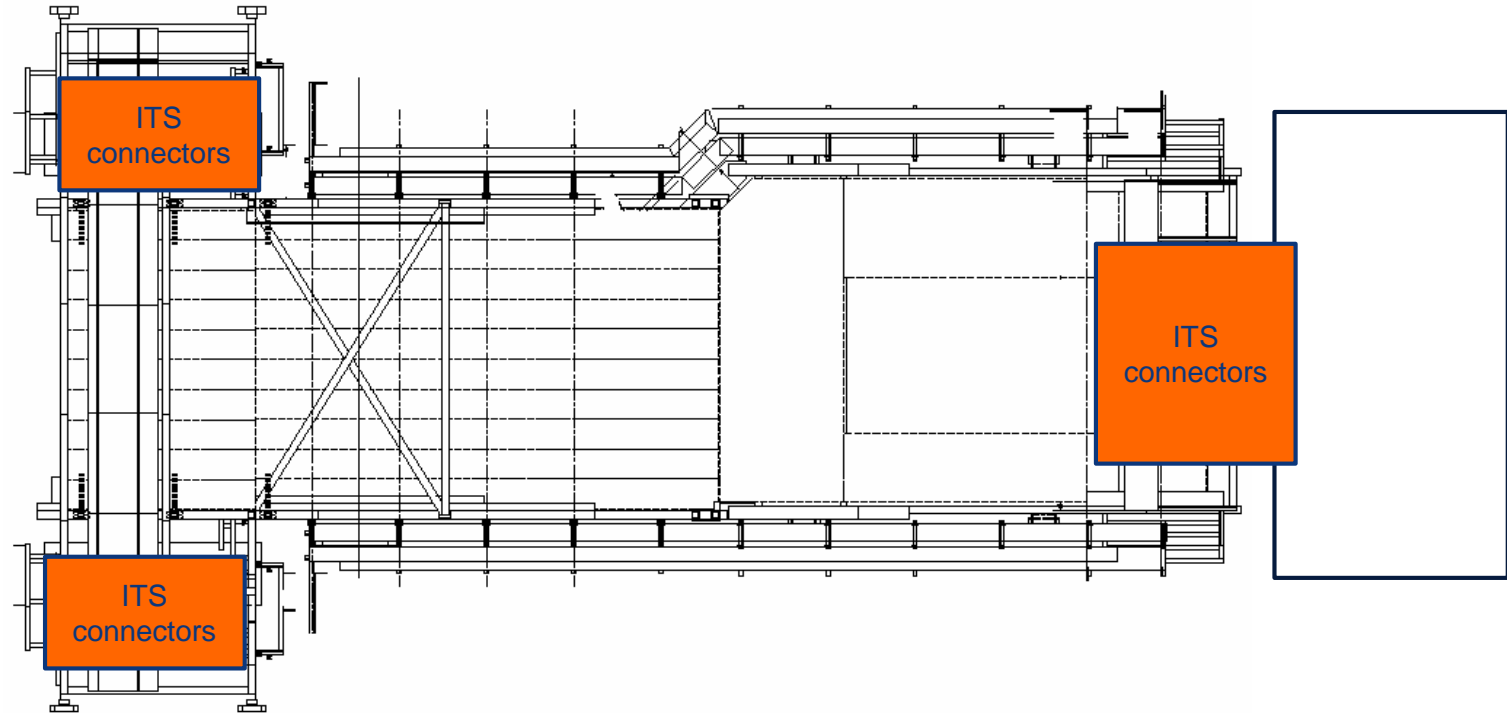
CERN official holiday



Miniframe activities w23 – Tue 2 Jun 2020



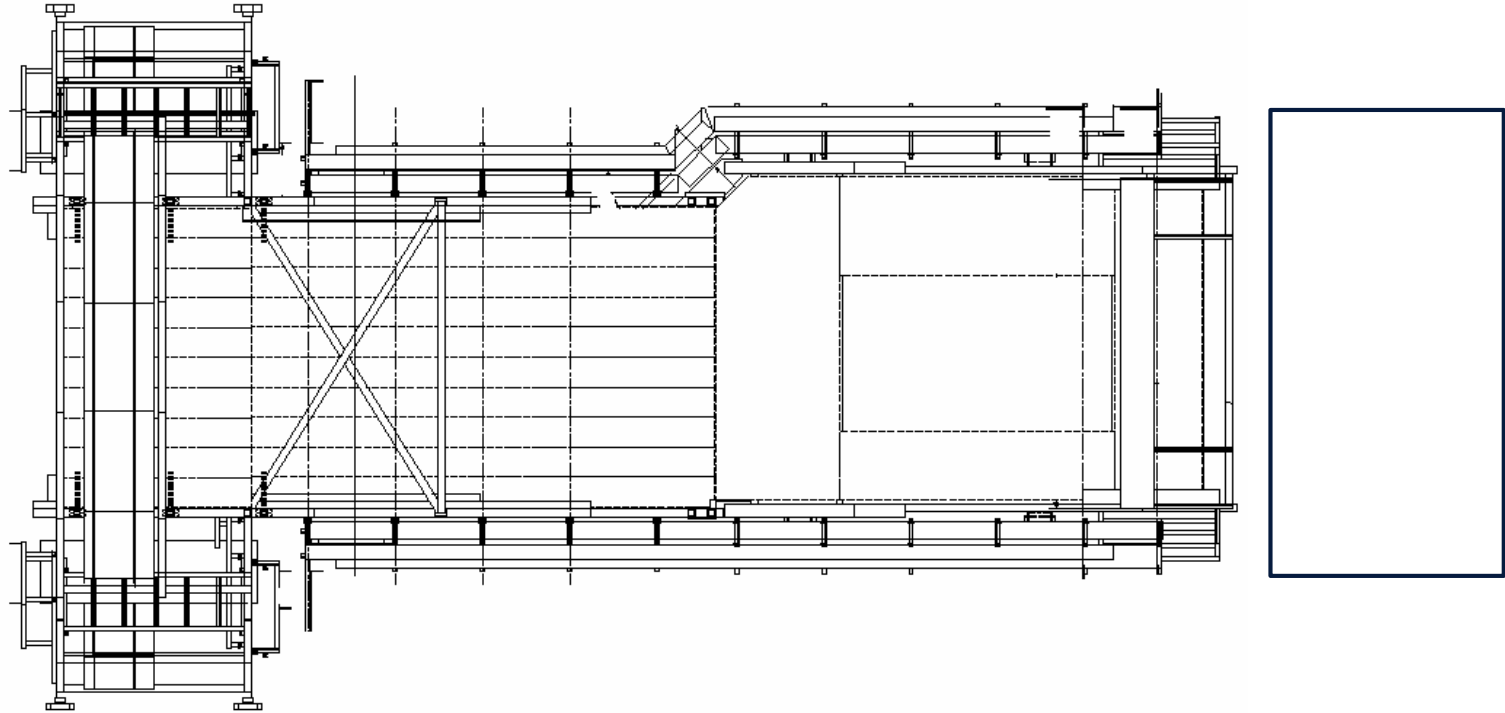
Miniframe activities w23 – Wed 3 Jun 2020



Miniframe activities w23 – Thu 4 Jun 2020

P2tech: production of FIT patch panel (1/2) + barrier (Cedric)

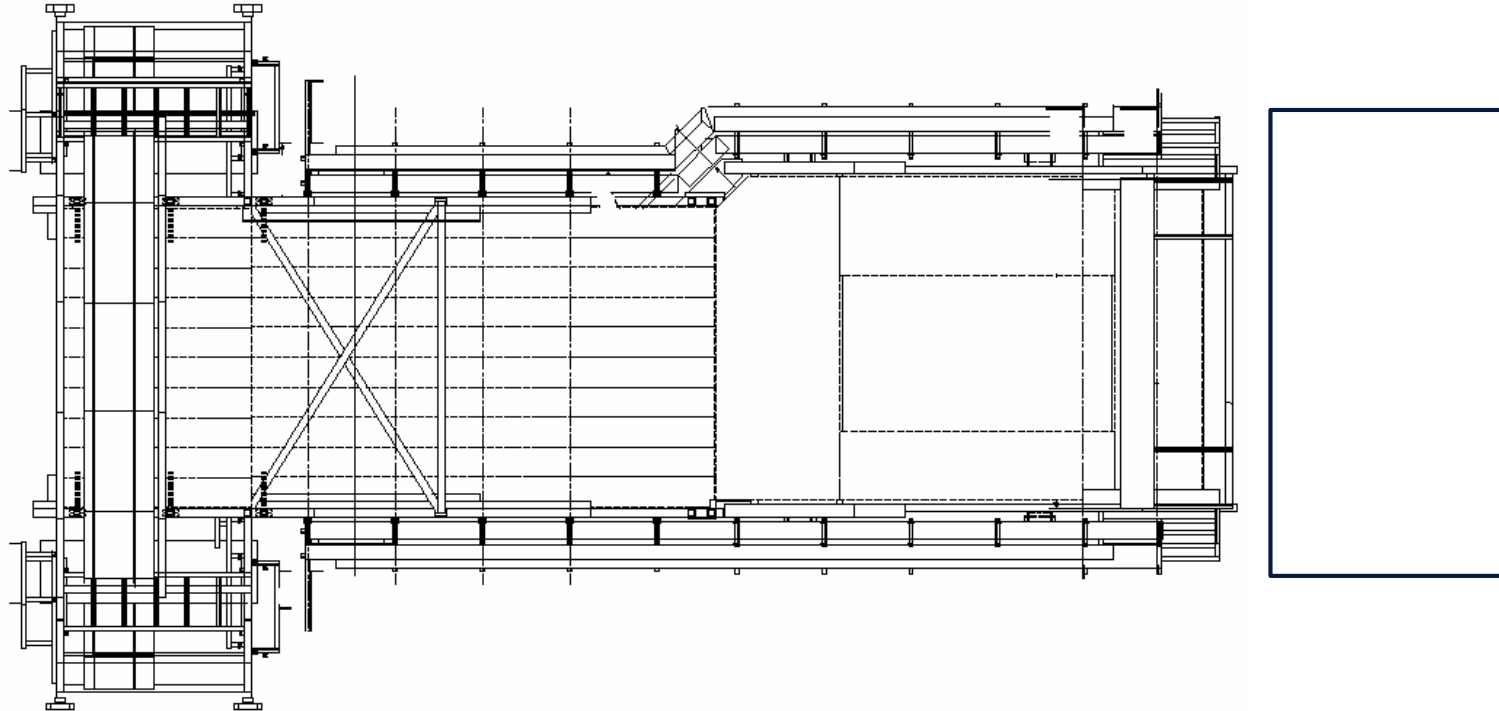
ITS cable trays & services
(Mimmo)



Miniframe activities w23 – Fri 5 Jun 2020

P2tech: production of FIT patch panel (1/2) + barrier (Cedric)

ITS cable trays & services
(Mimmo)



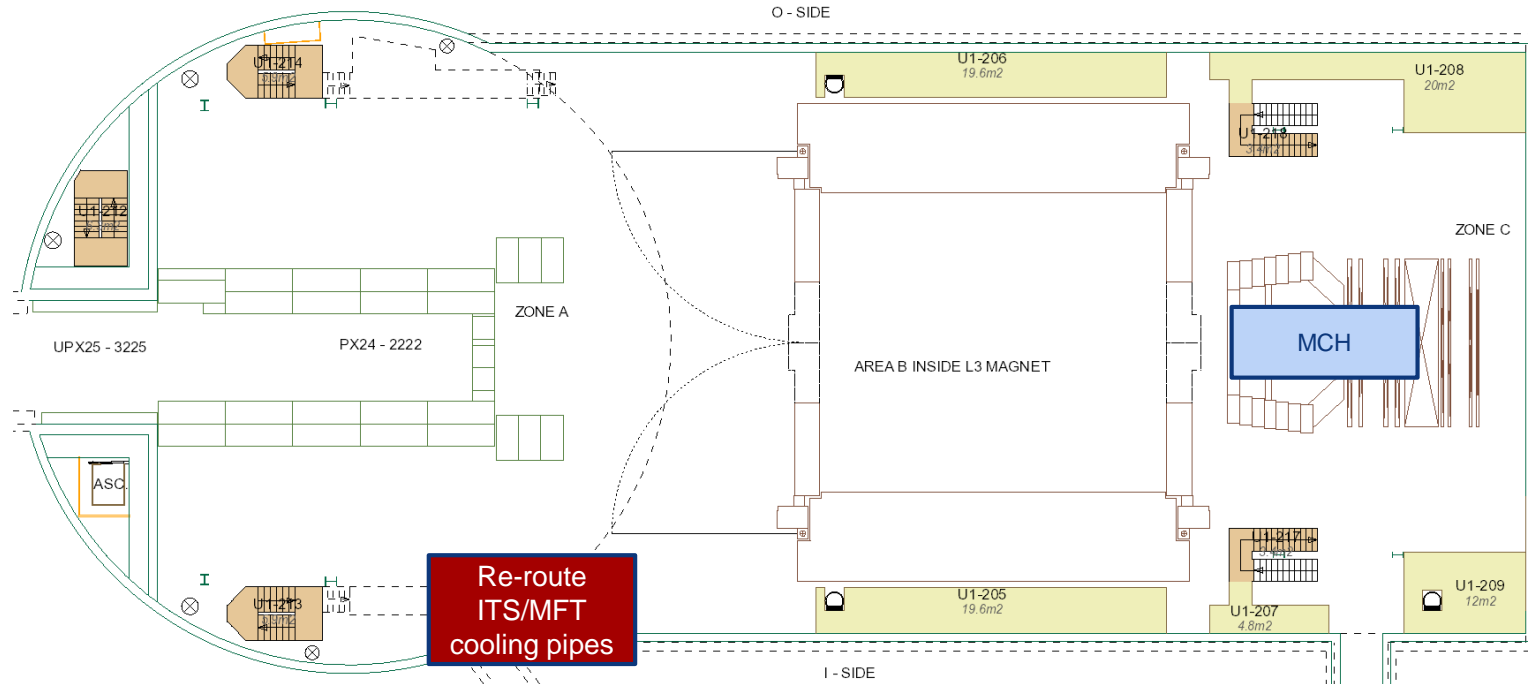
Day-by-day sequence w24



UX25 activities w24 – Mon 8 Jun 2020

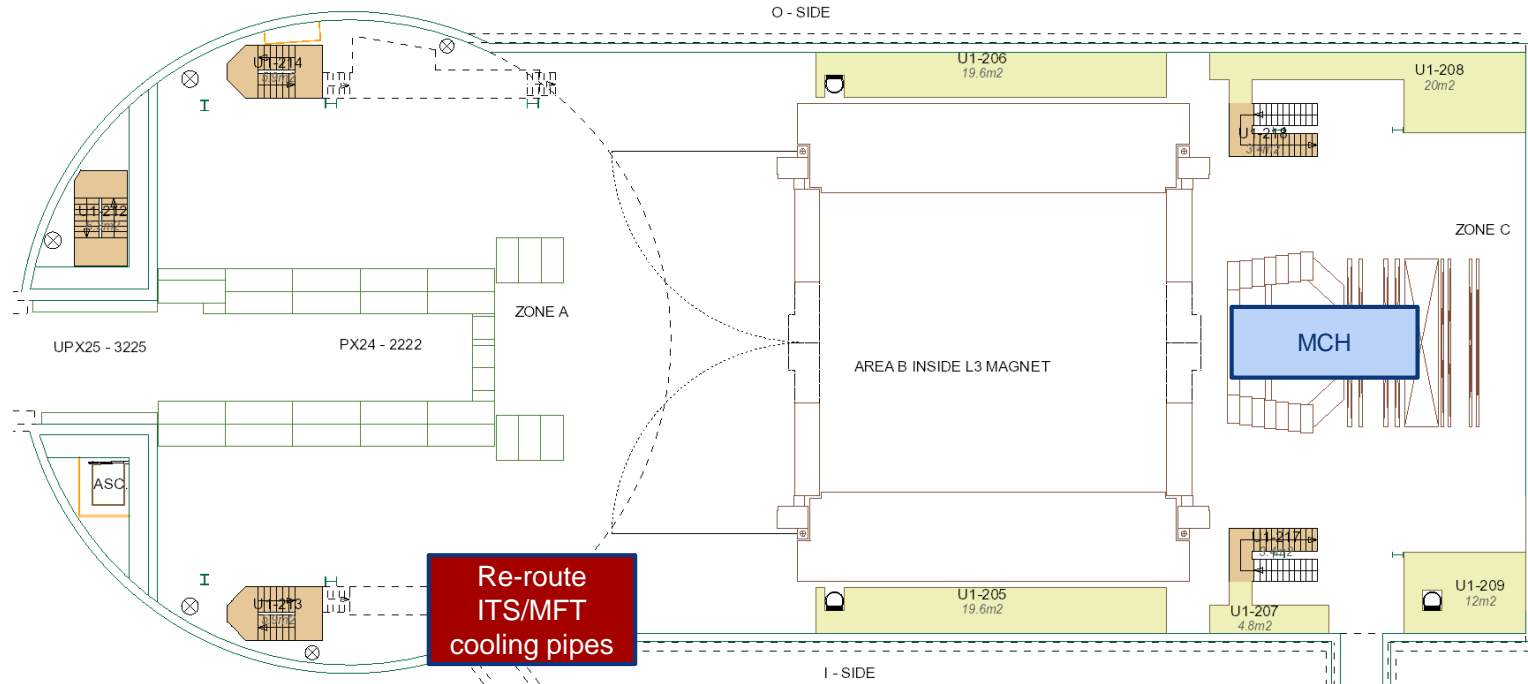
Restart L3 and Dipole cooling (Philippe, Cedric)

Replacement PM25 lift (until 7 August) → LHC access via ALICE (PX24)



UX25 activities w24 – Tue 9 Jun 2020

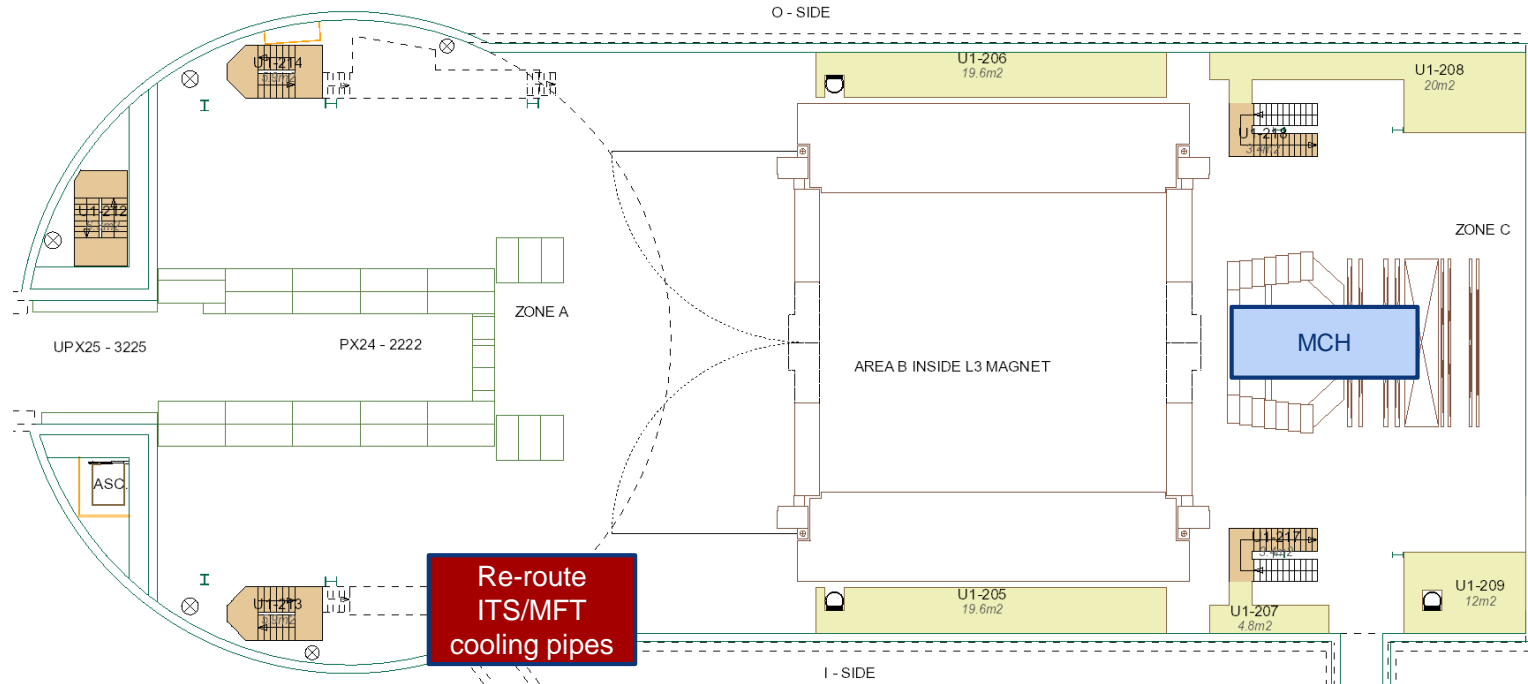
Cleaning cavern (Topnet): 13:00 to 15:00



UX25 activities w24 – Wed 10 Jun 2020

TE-EPC: test L3 transformer (needed ALICE authorization to remove lock-out)

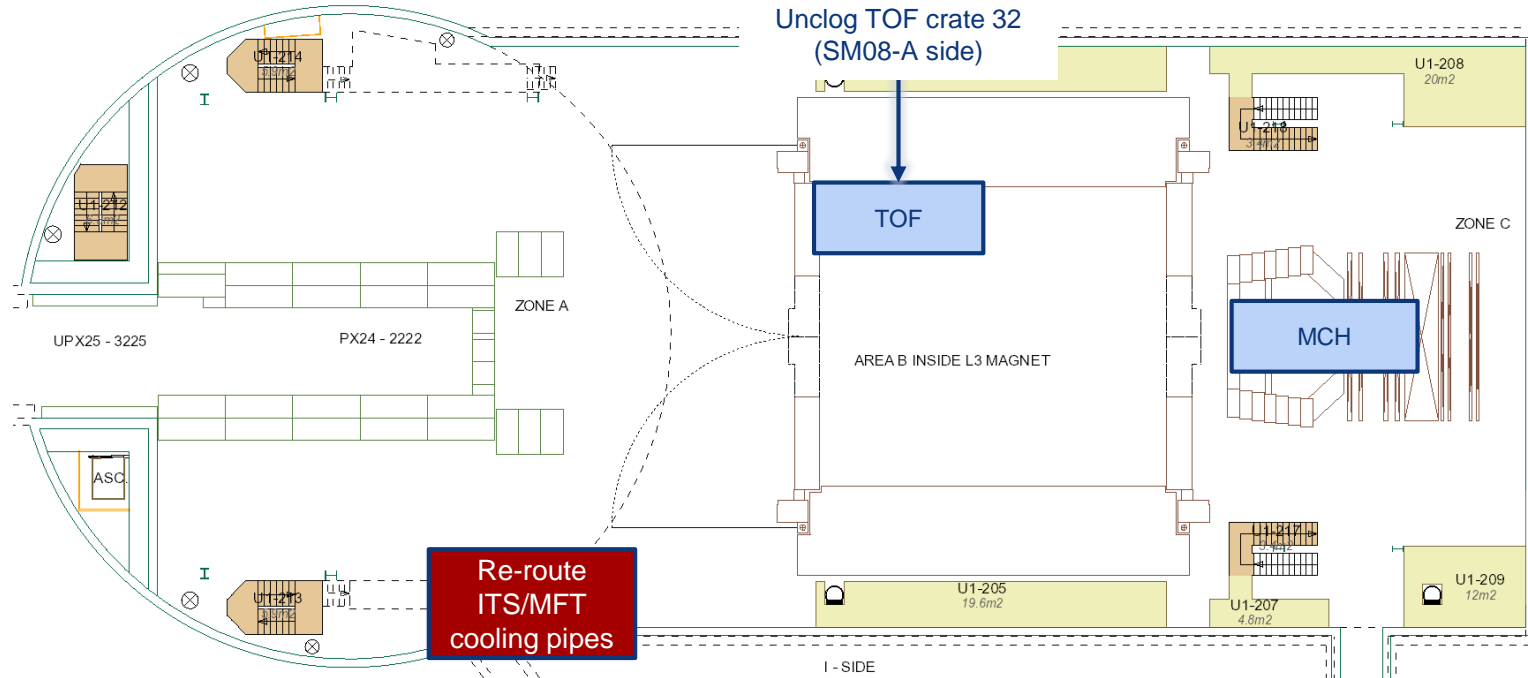
Replace Wiener LVPS cooling hoses (Philippe)



UX25 activities w24 – Thu 11 Jun 2020

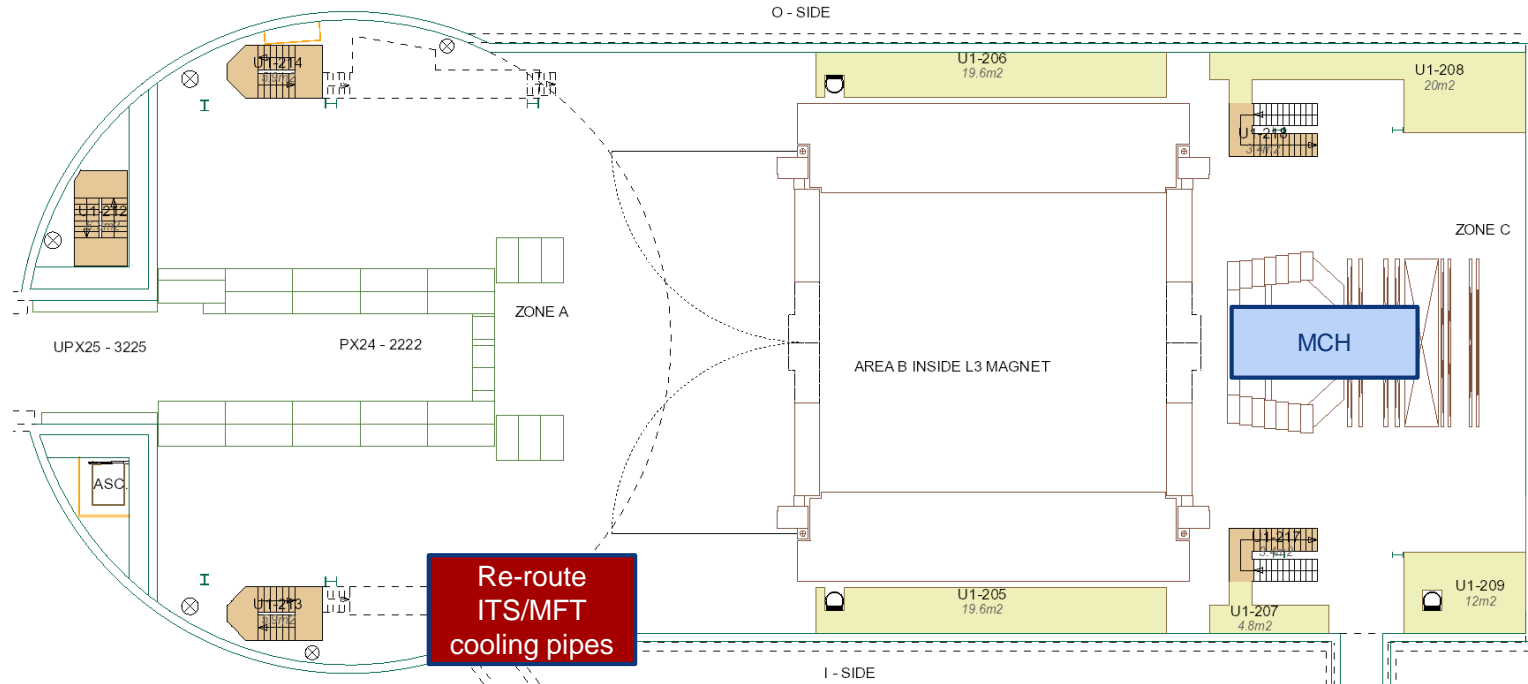
ALTEAD: drive nacelle for TOF (agreed with Manu)

Maintenance CR drawbridges

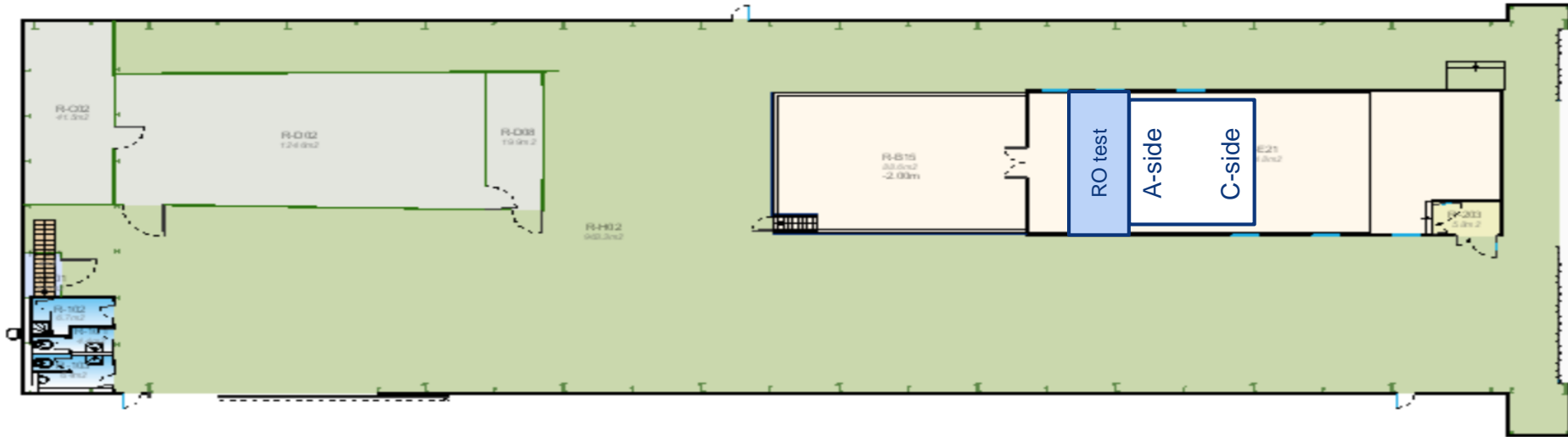


UX25 activities w24 – Fri 12 Jun 2020

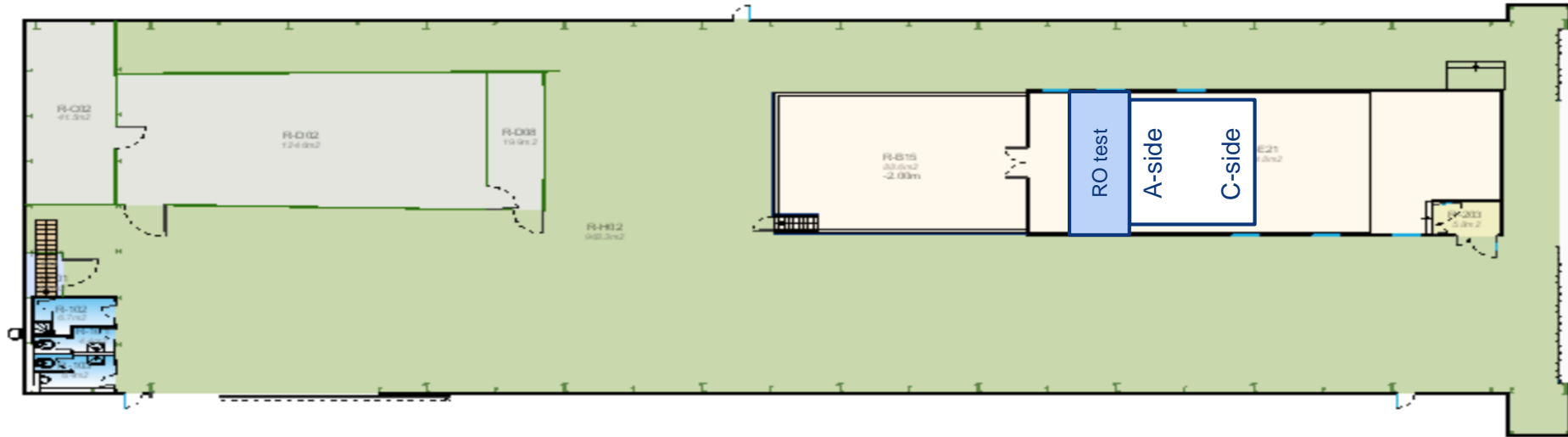
Install optical fibers CR1-3 and CR1-4



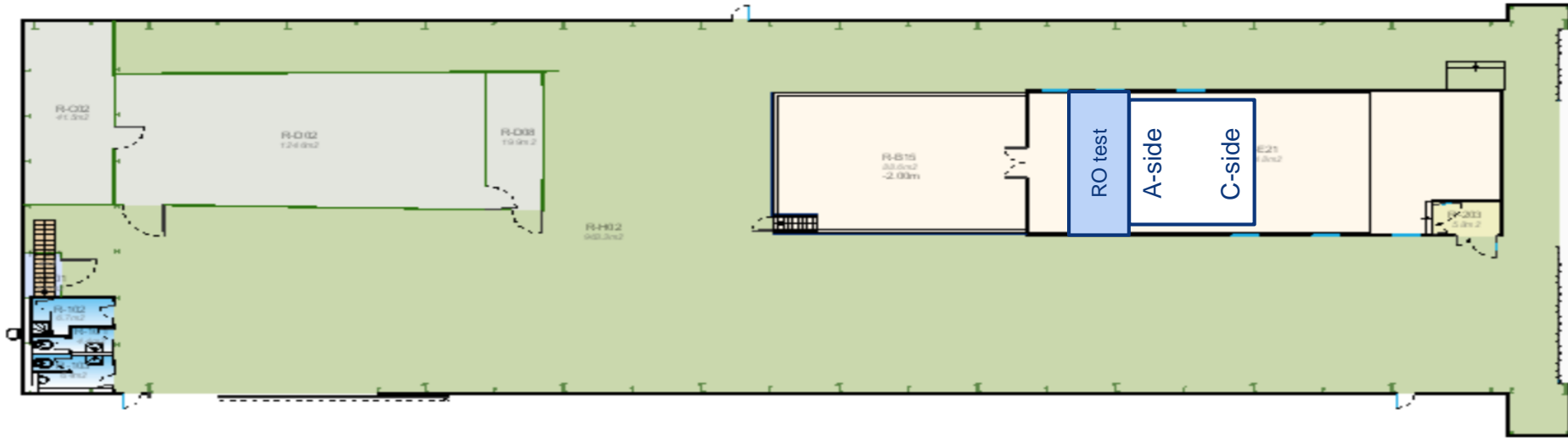
SXL2 activities w24 – Mon 8 Jun 2020



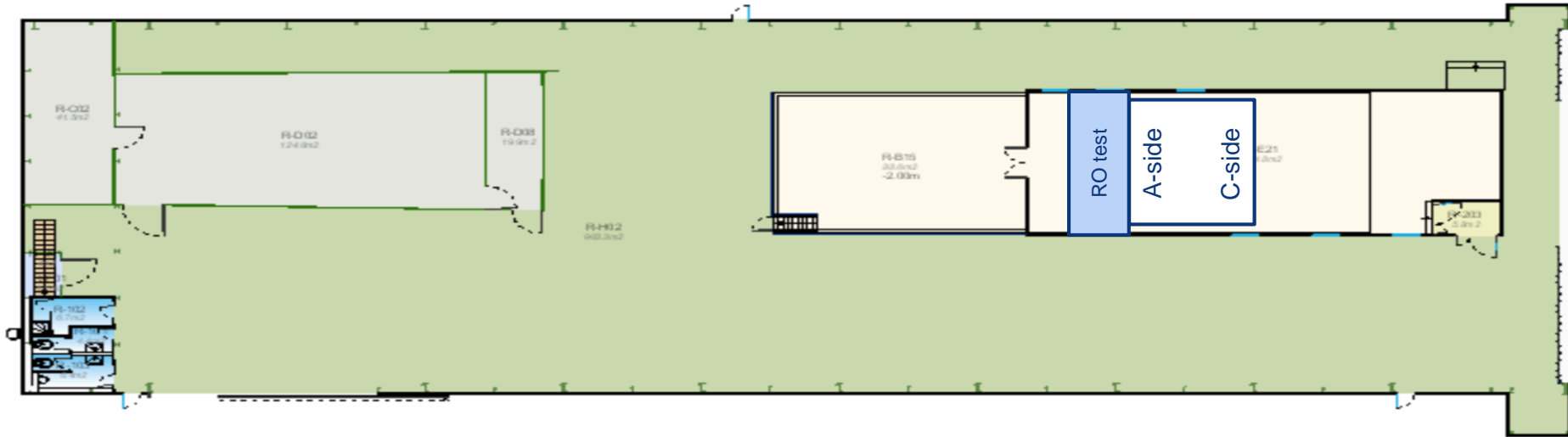
SXL2 activities w24 – Tue 9 Jun 2020



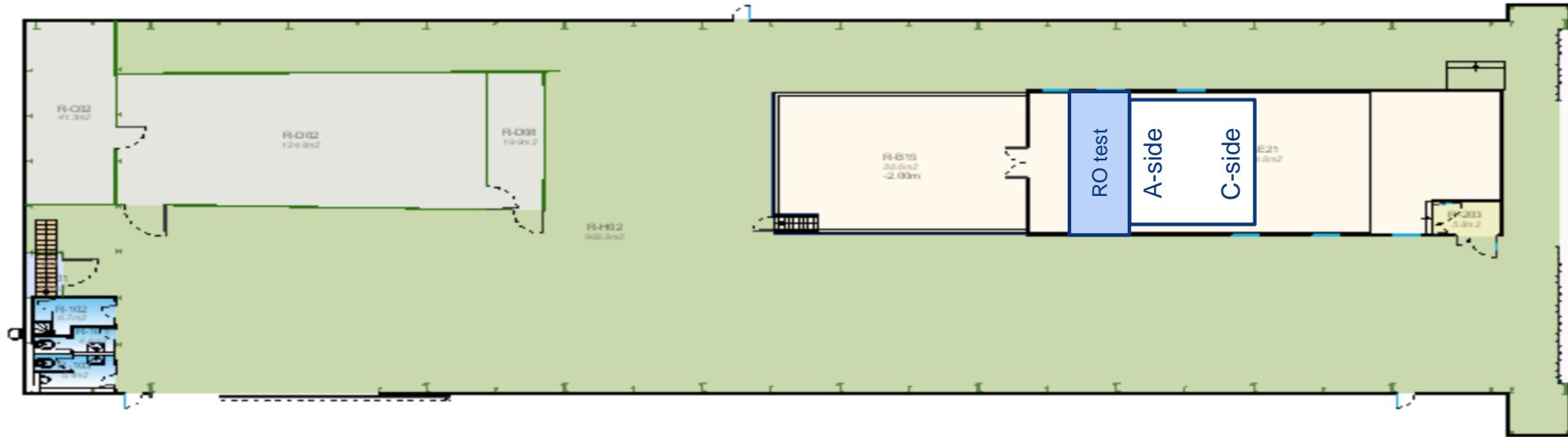
SXL2 activities w24 – Wed 10 Jun 2020



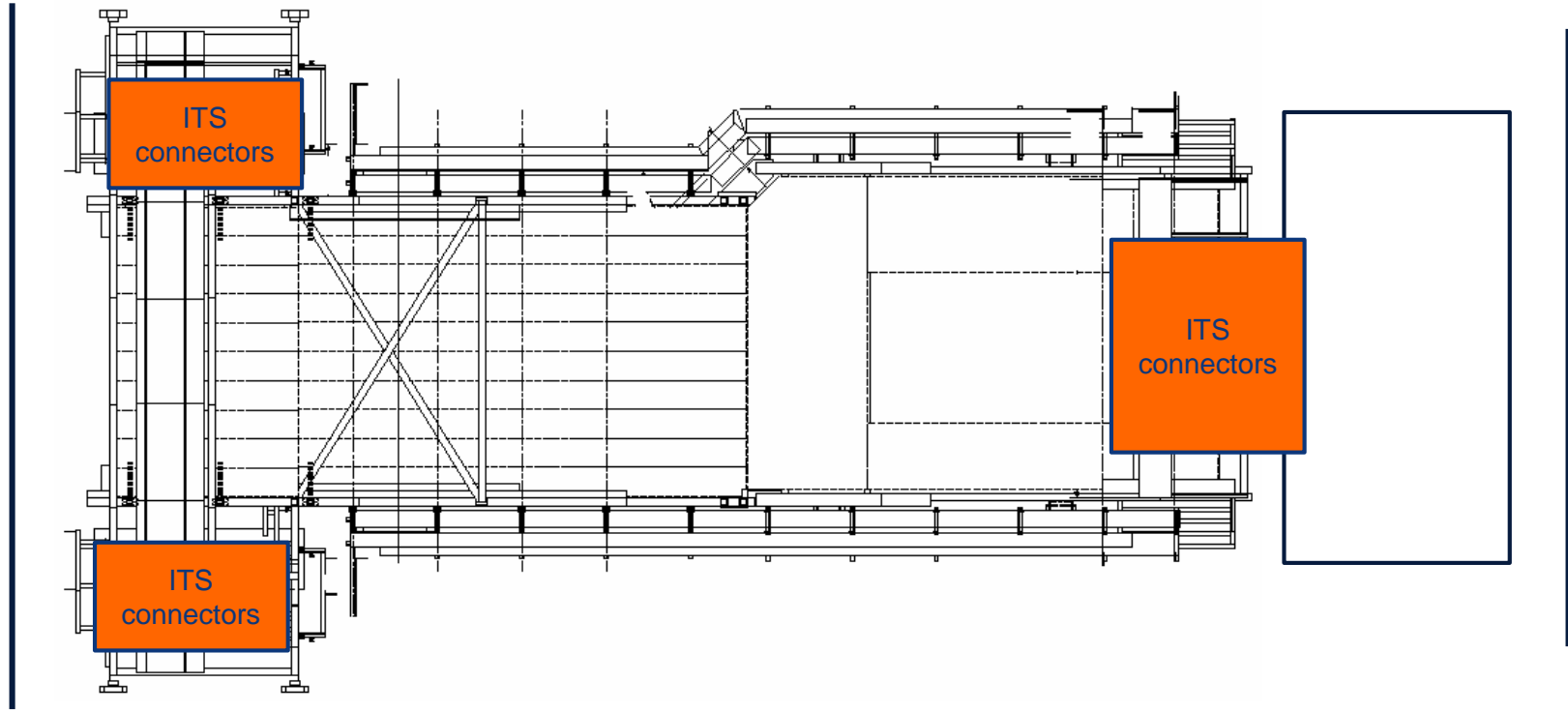
SXL2 activities w24 – Thu 11 Jun 2020



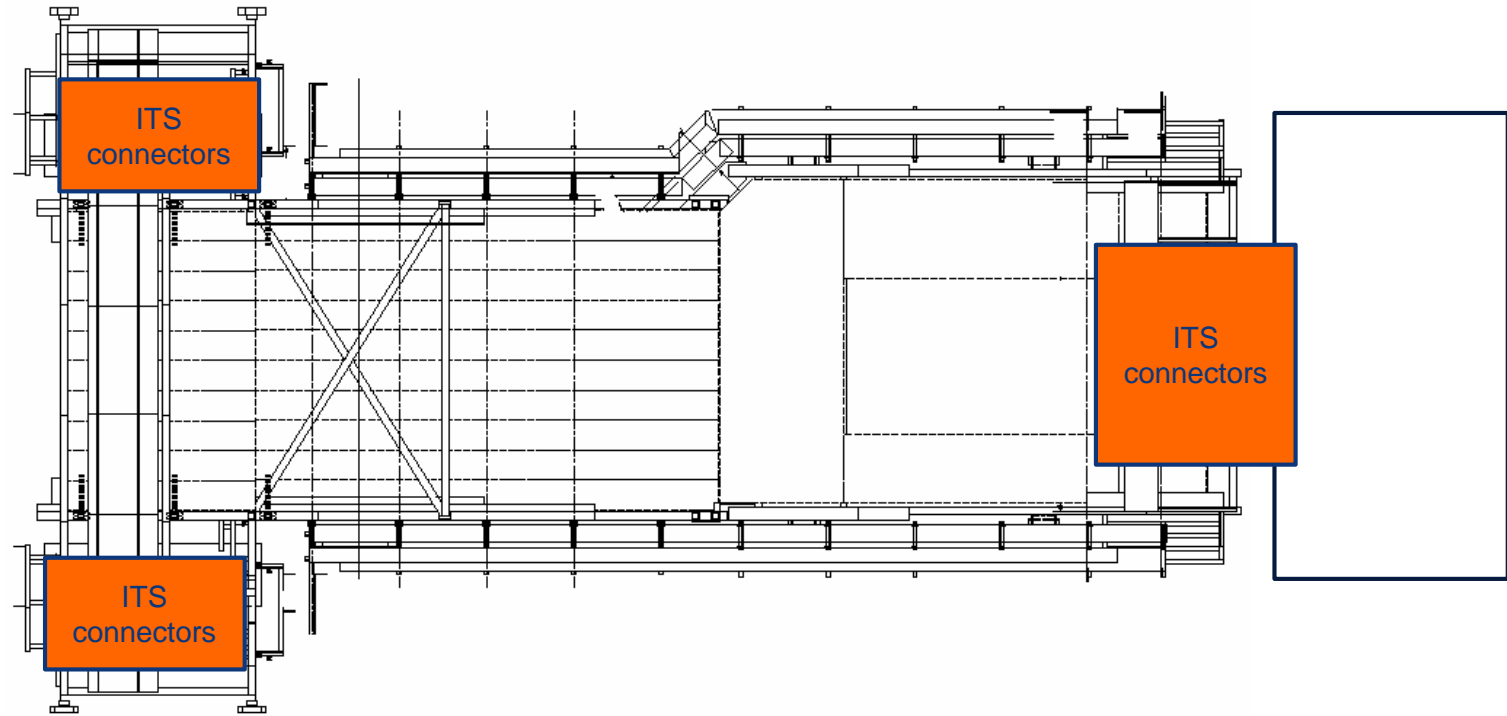
SXL2 activities w24 – Fri 12 Jun 2020



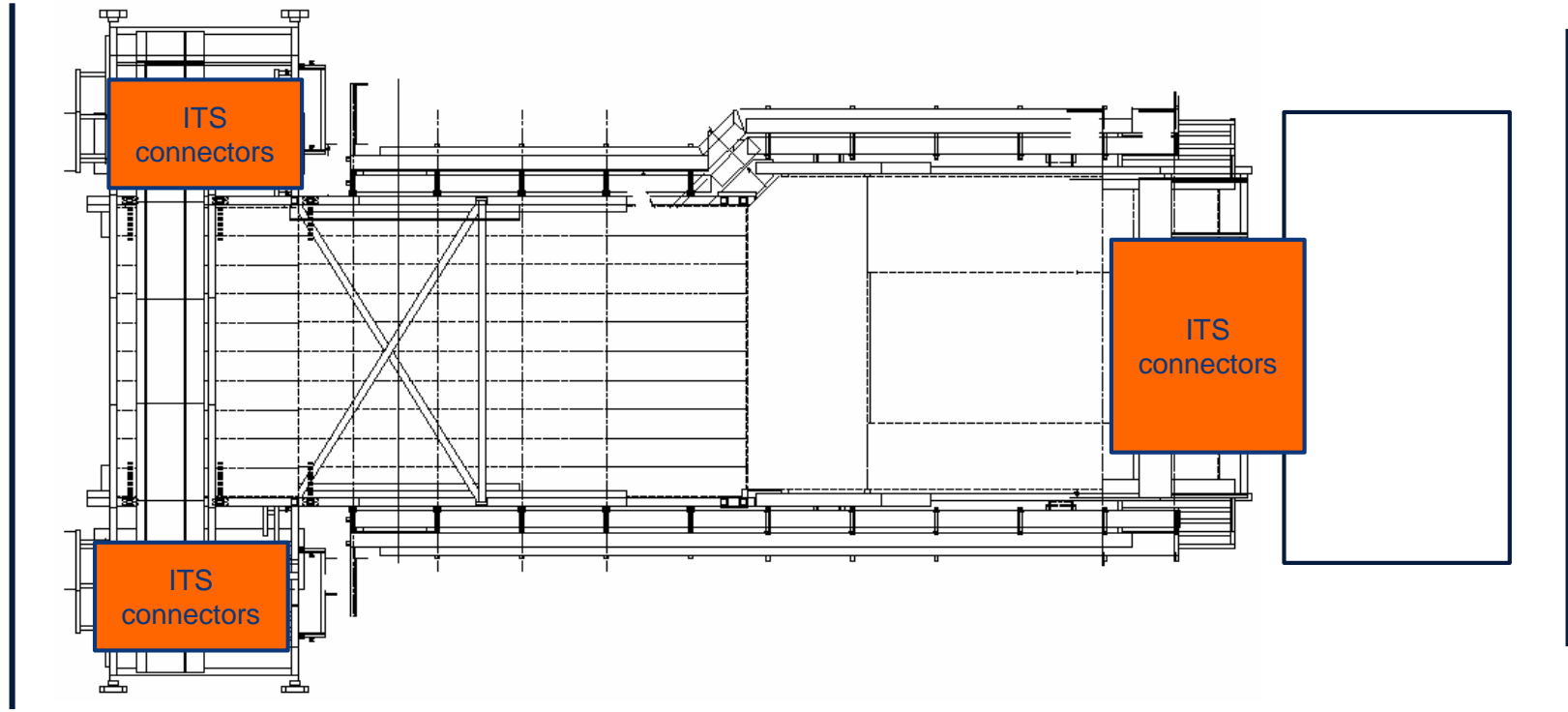
Miniframe activities w24 – Mon 8 Jun 2020



Miniframe activities w24 – Tue 9 Jun 2020



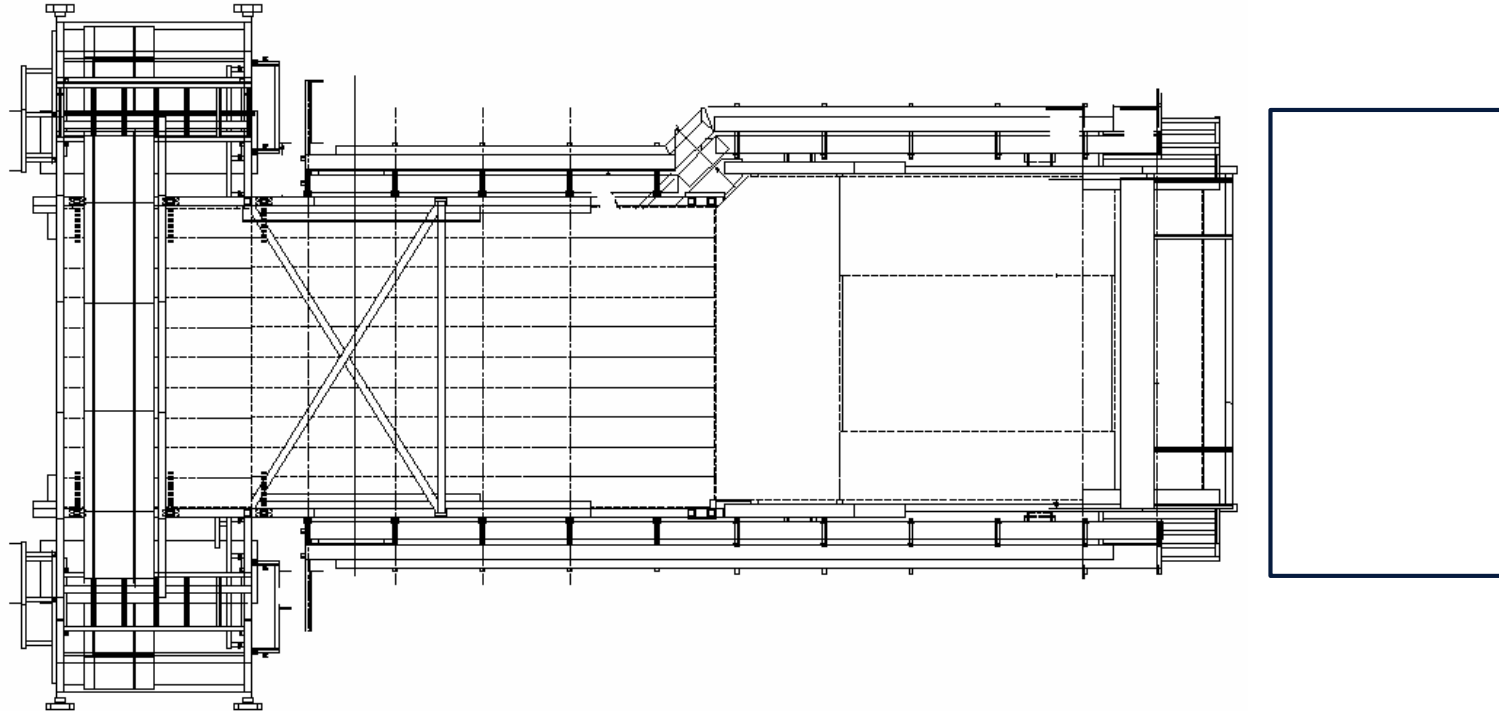
Miniframe activities w24 – Wed 10 Jun 2020



Miniframe activities w24 – Thu 11 Jun 2020

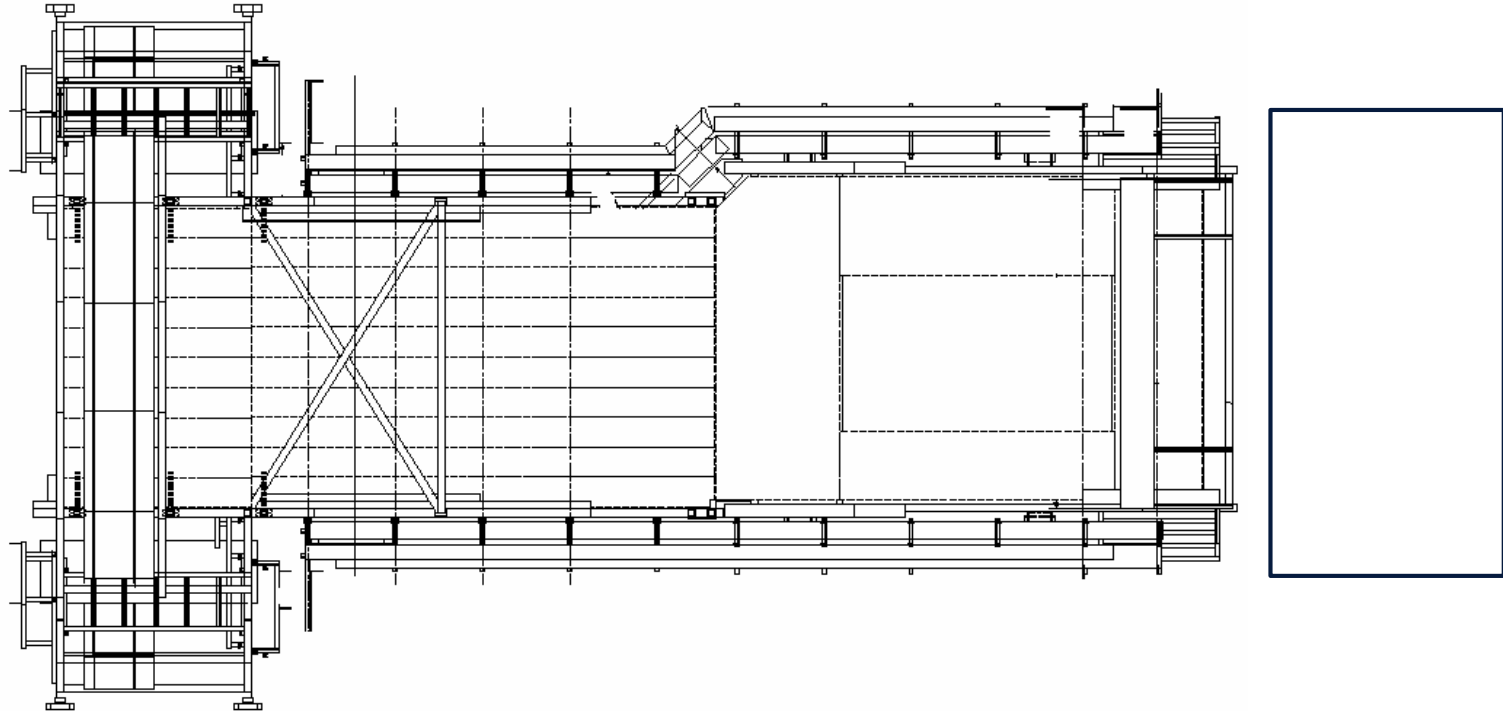
P2tech: modify MNF brackets in the back part of Miniframe (Cedric)

Cutting ITS crate tube (12 total) (Philippe)



Miniframe activities w24 – Fri 12 Jun 2020

P2tech: production of and installation of MNF extensions (1/3) (Cedric)



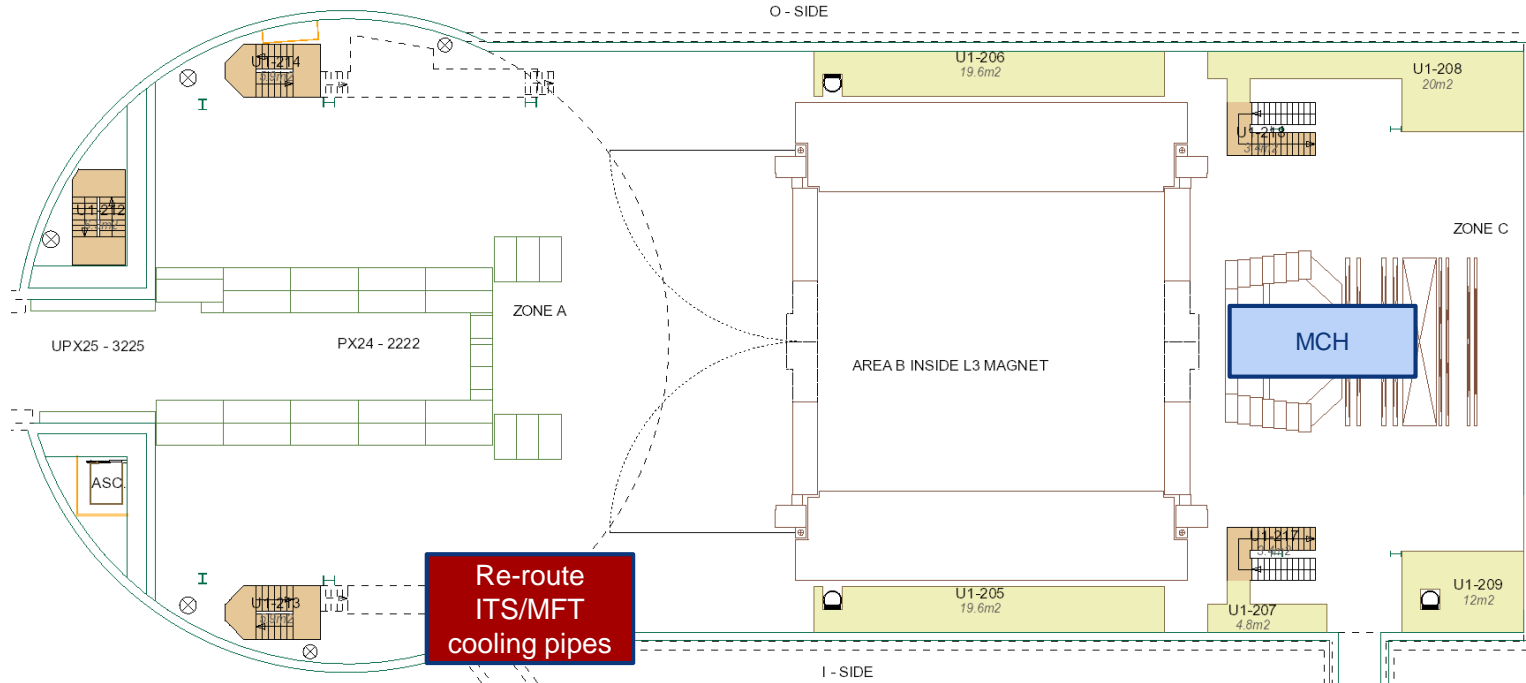
Day-by-day sequence w25



UX25 activities w25 – Mon 15 Jun 2020

Replacement PM25 lift (until 7 August) → LHC access via ALICE (PX24)

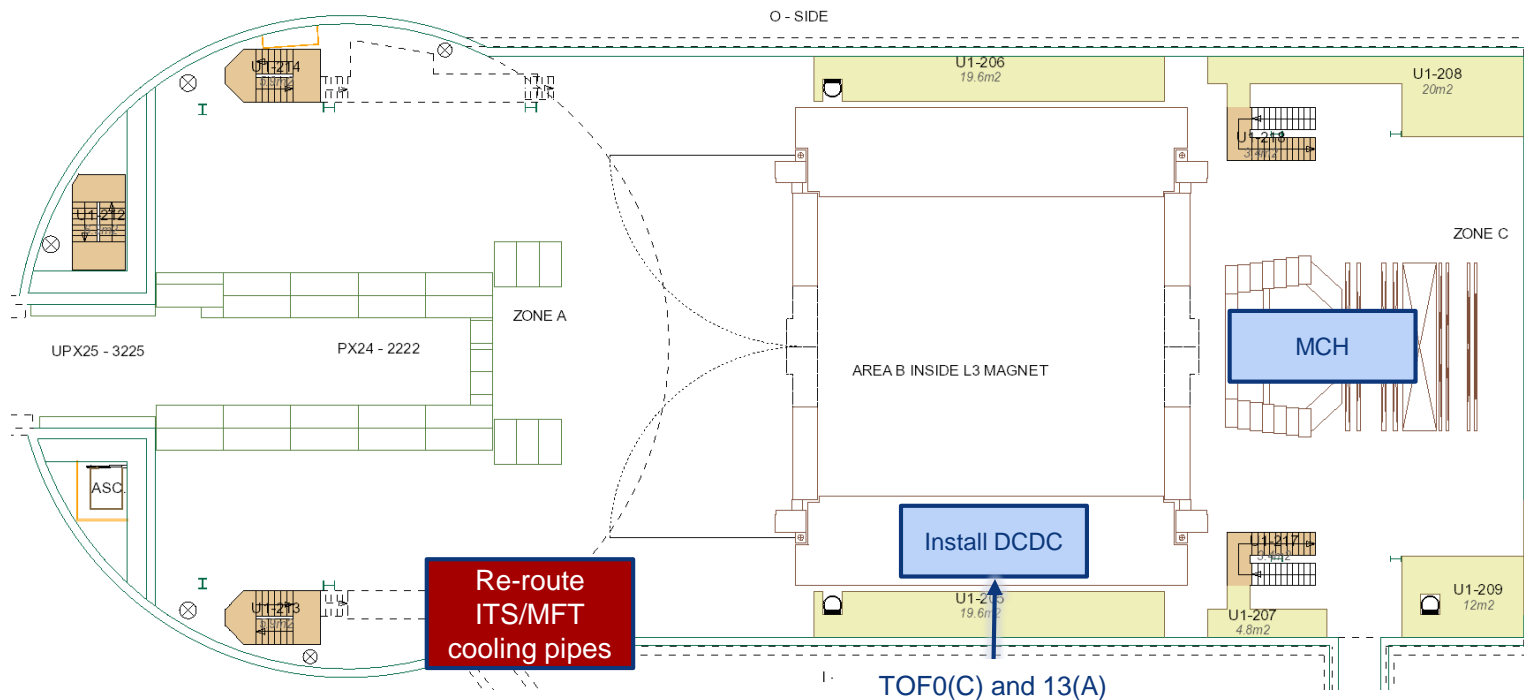
Install optical fibers CR1-3 and CR1-4



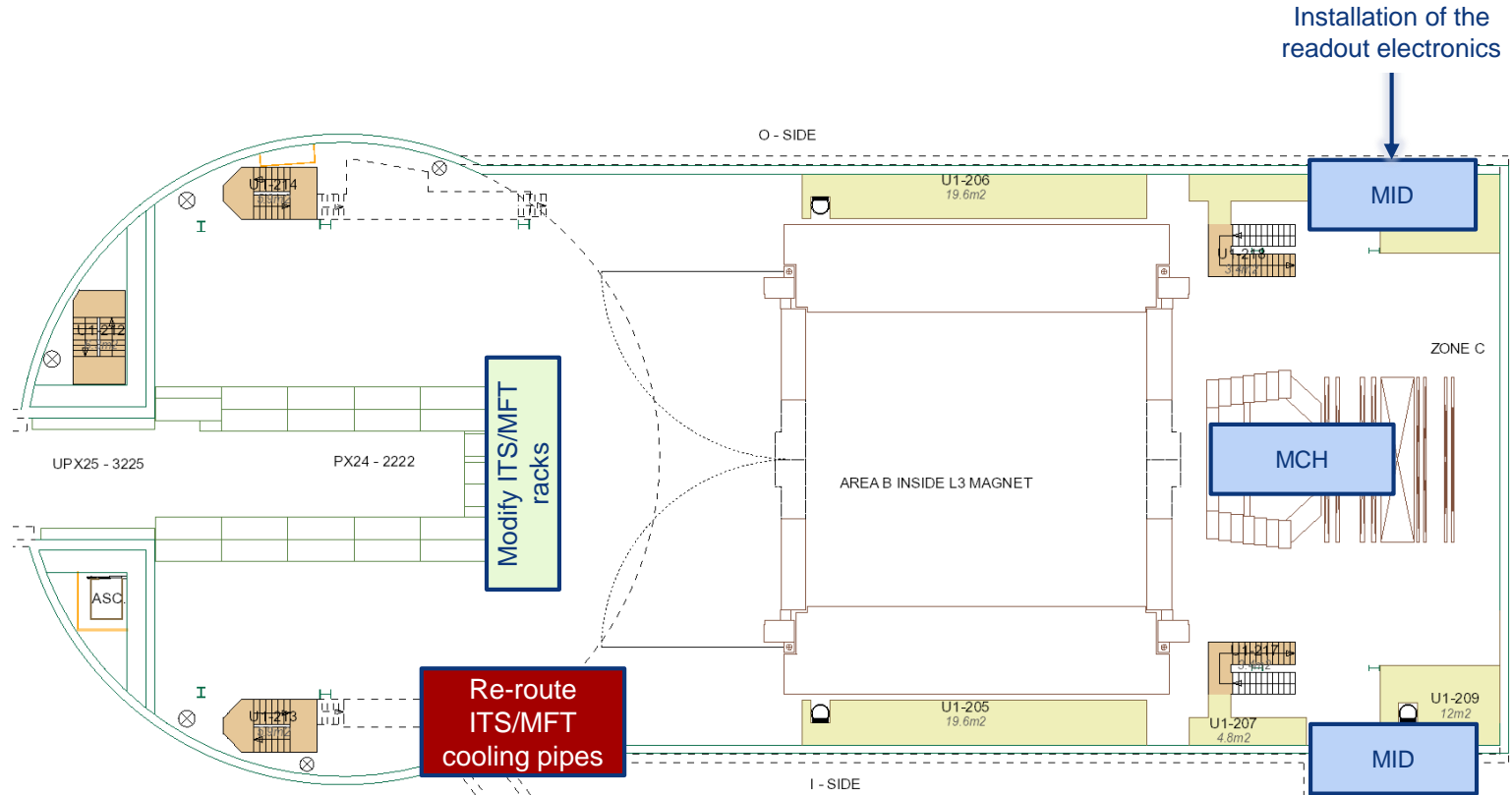
UX25 activities w25 – Tue 16 Jun 2020

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

Install optical fibers CR1-3 and CR1-4

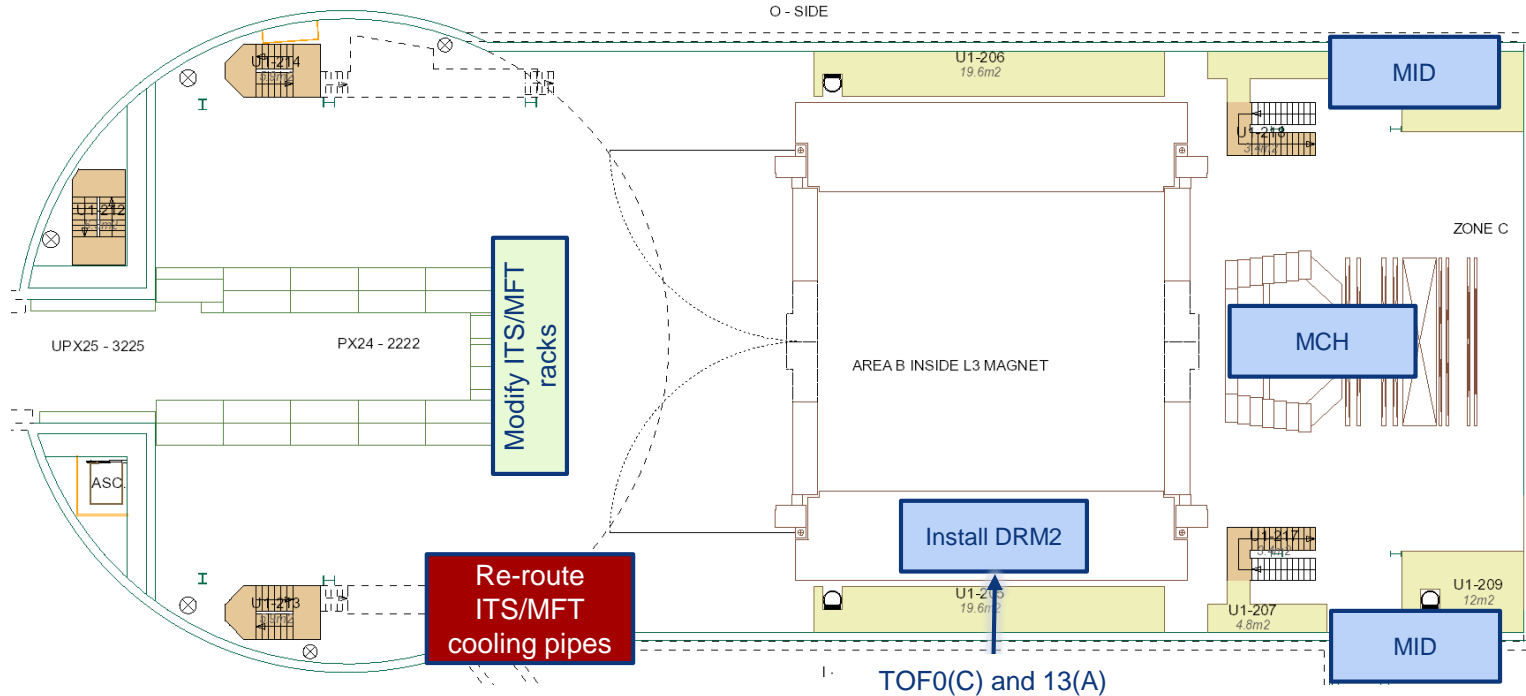


UX25 activities w25 – Wed 17 Jun 2020

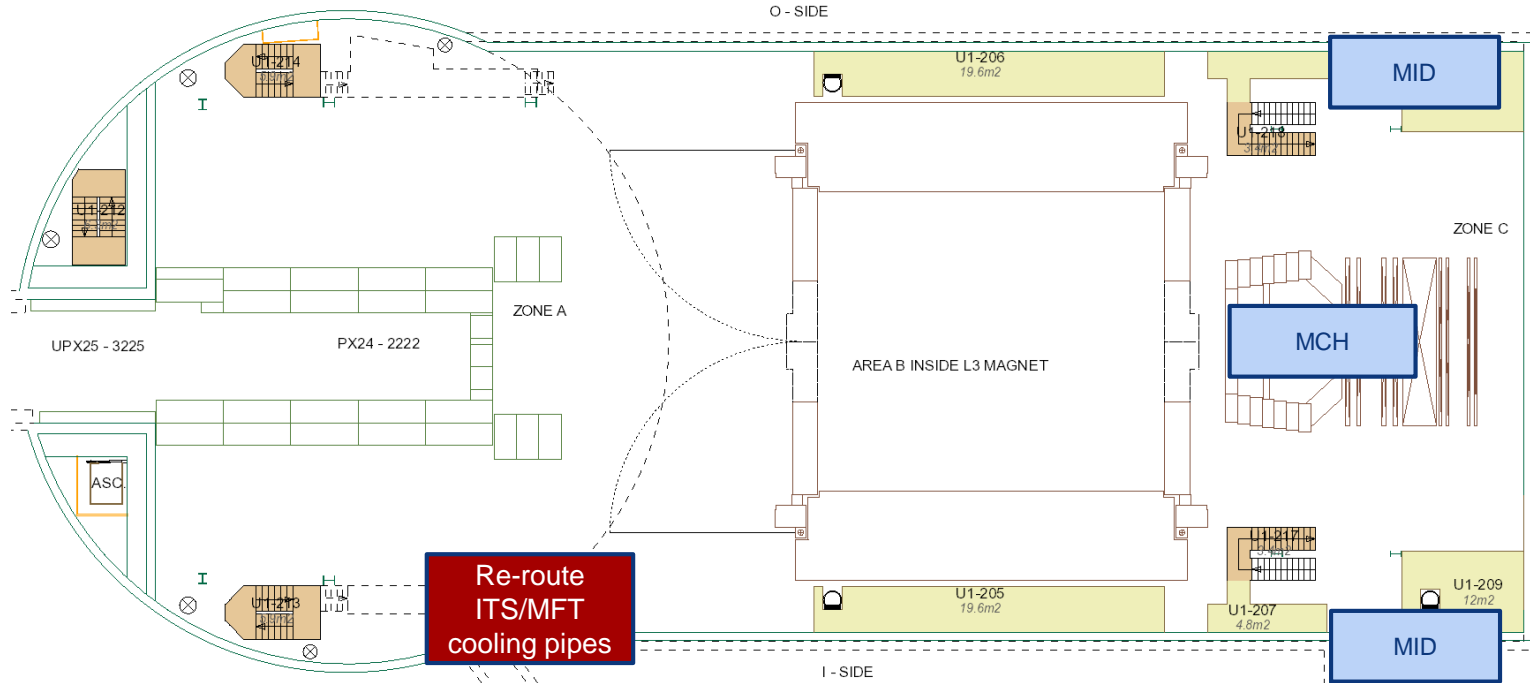


UX25 activities w25 – Thu 18 Jun 2020

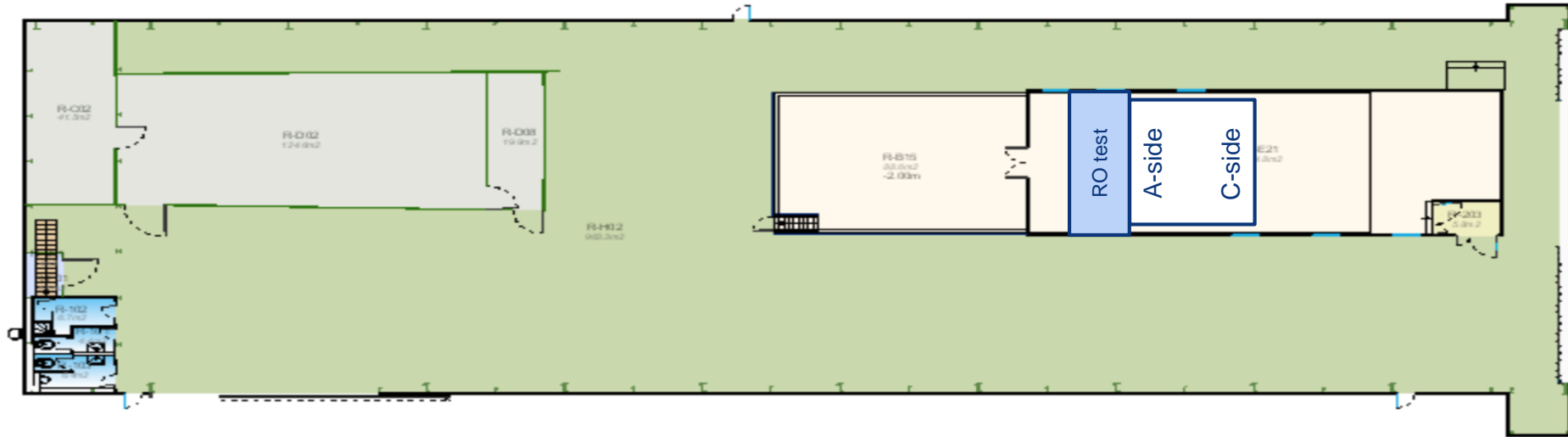
EN: maintenance cavern crane



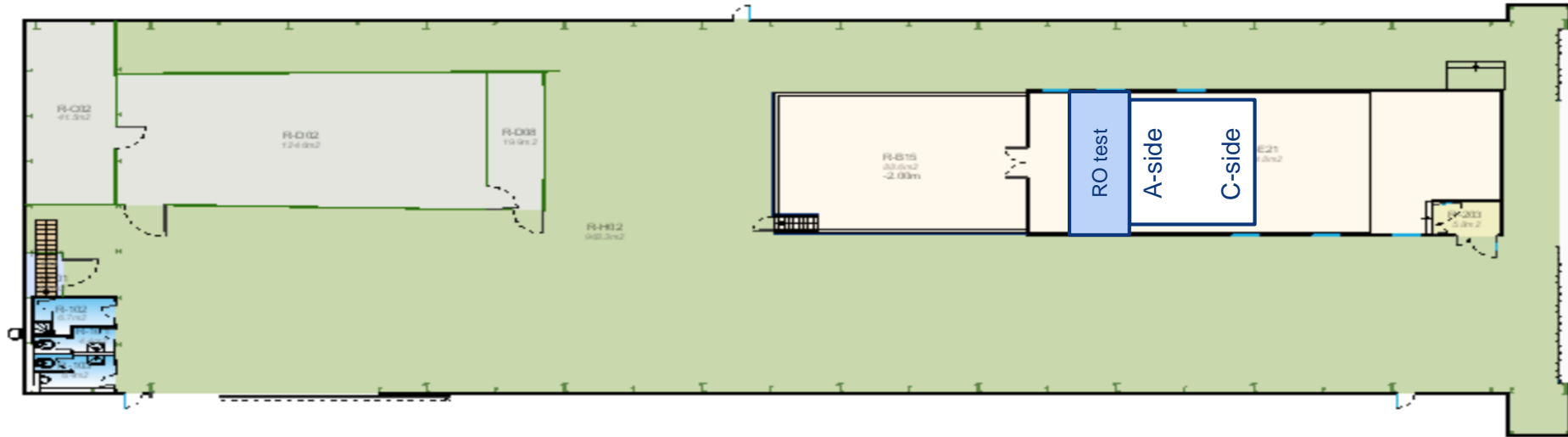
UX25 activities w25 – Fri 19 Jun 2020



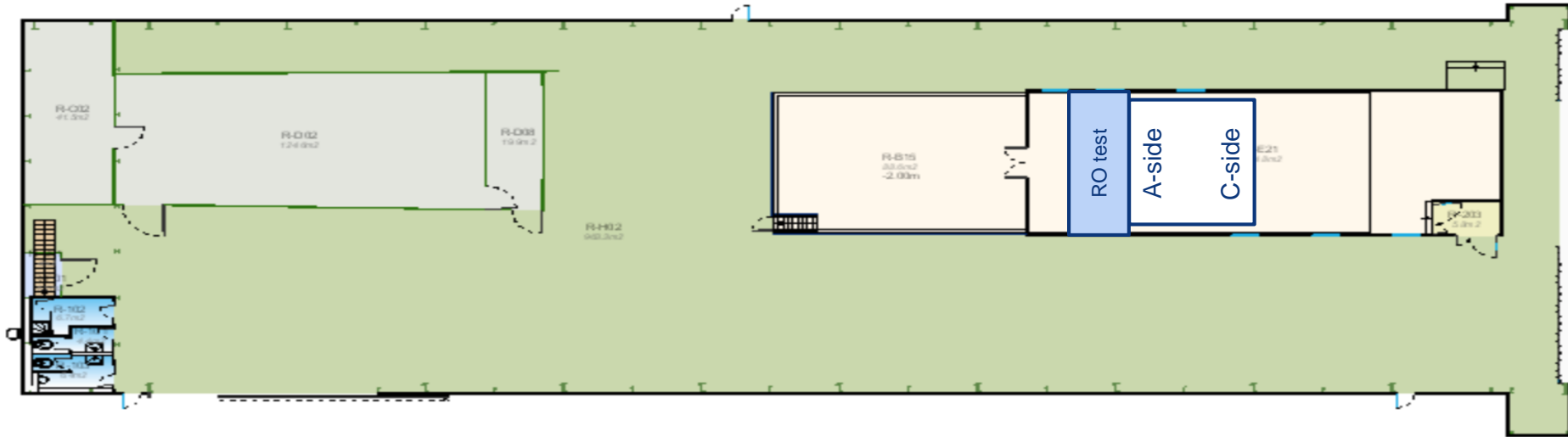
SXL2 activities w25 – Mon 15 Jun 2020



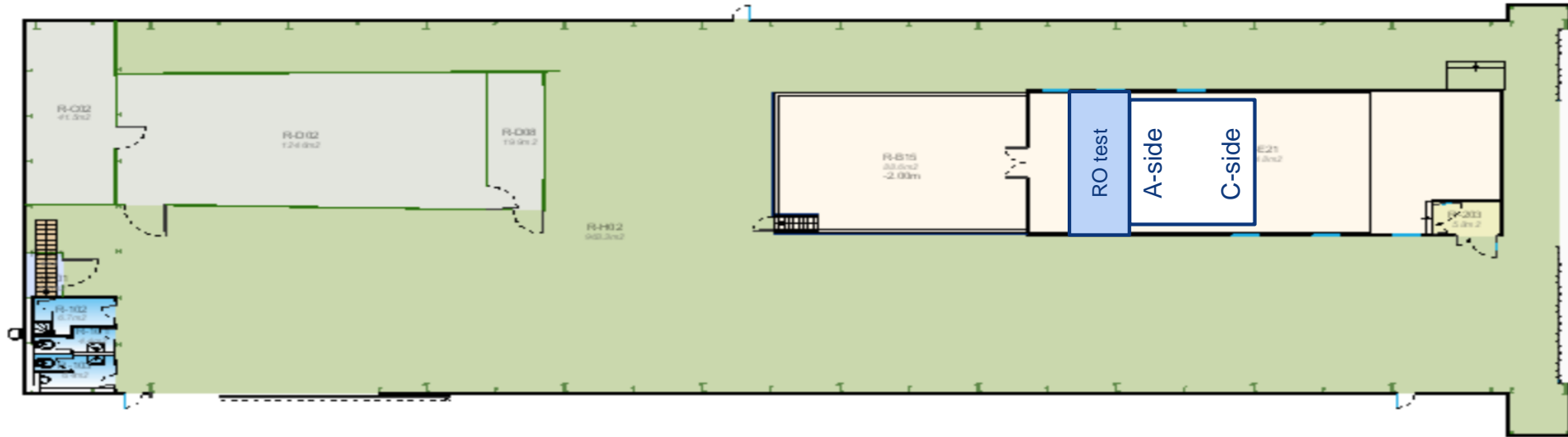
SXL2 activities w25 – Tue 16 Jun 2020



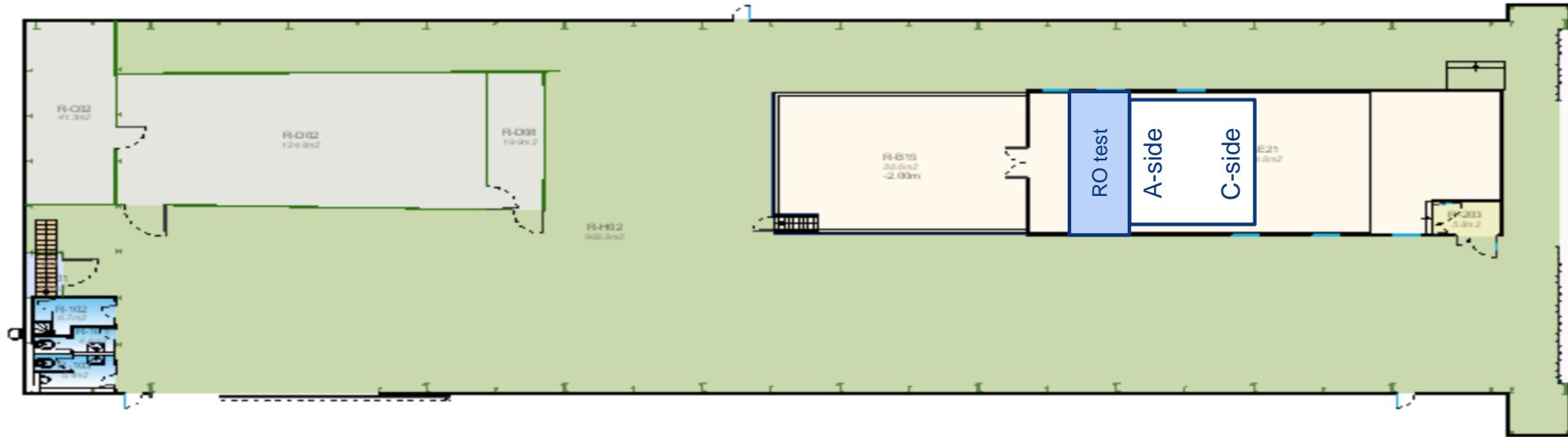
SXL2 activities w25 – Wed 17 Jun 2020



SXL2 activities w25 – Thu 18 Jun 2020



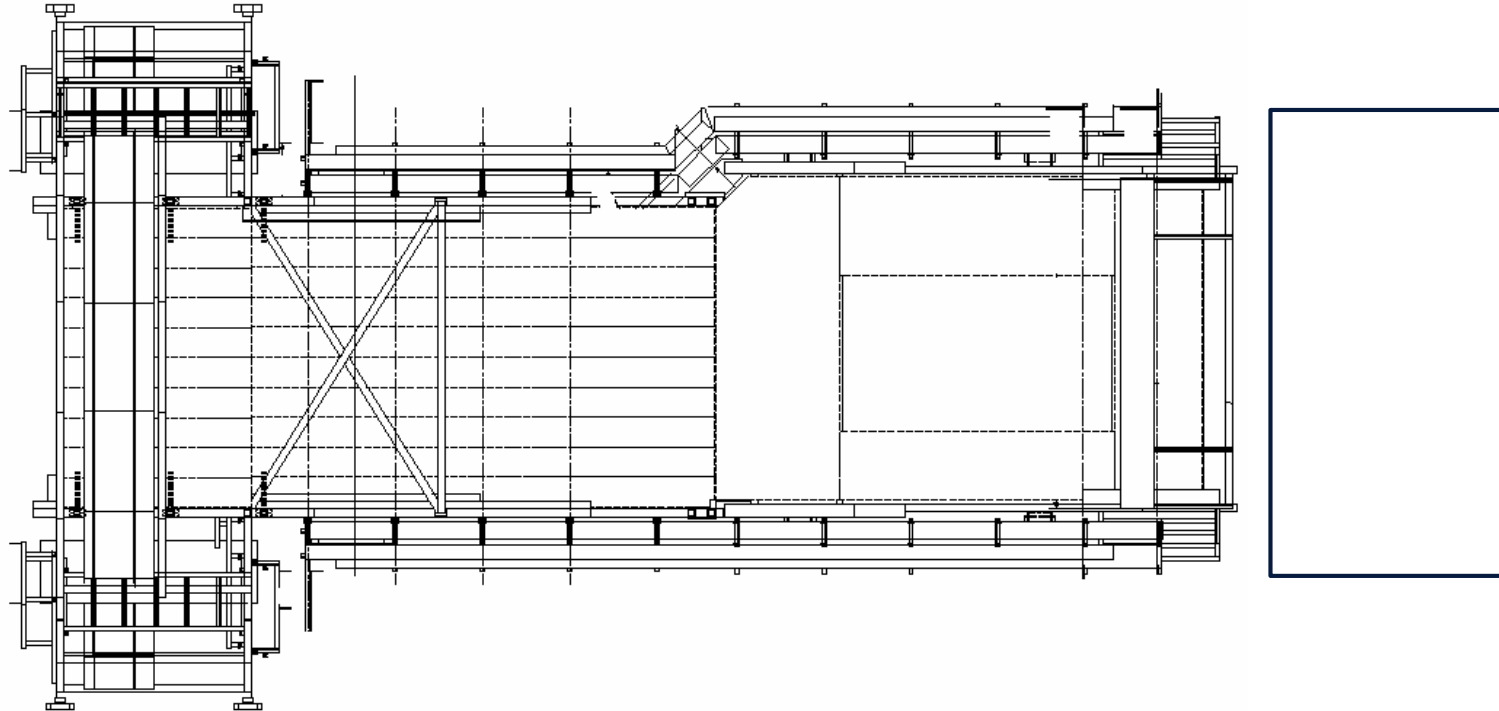
SXL2 activities w25 – Fri 19 Jun 2020



Miniframe activities w25 – Mon 15 Jun 2020

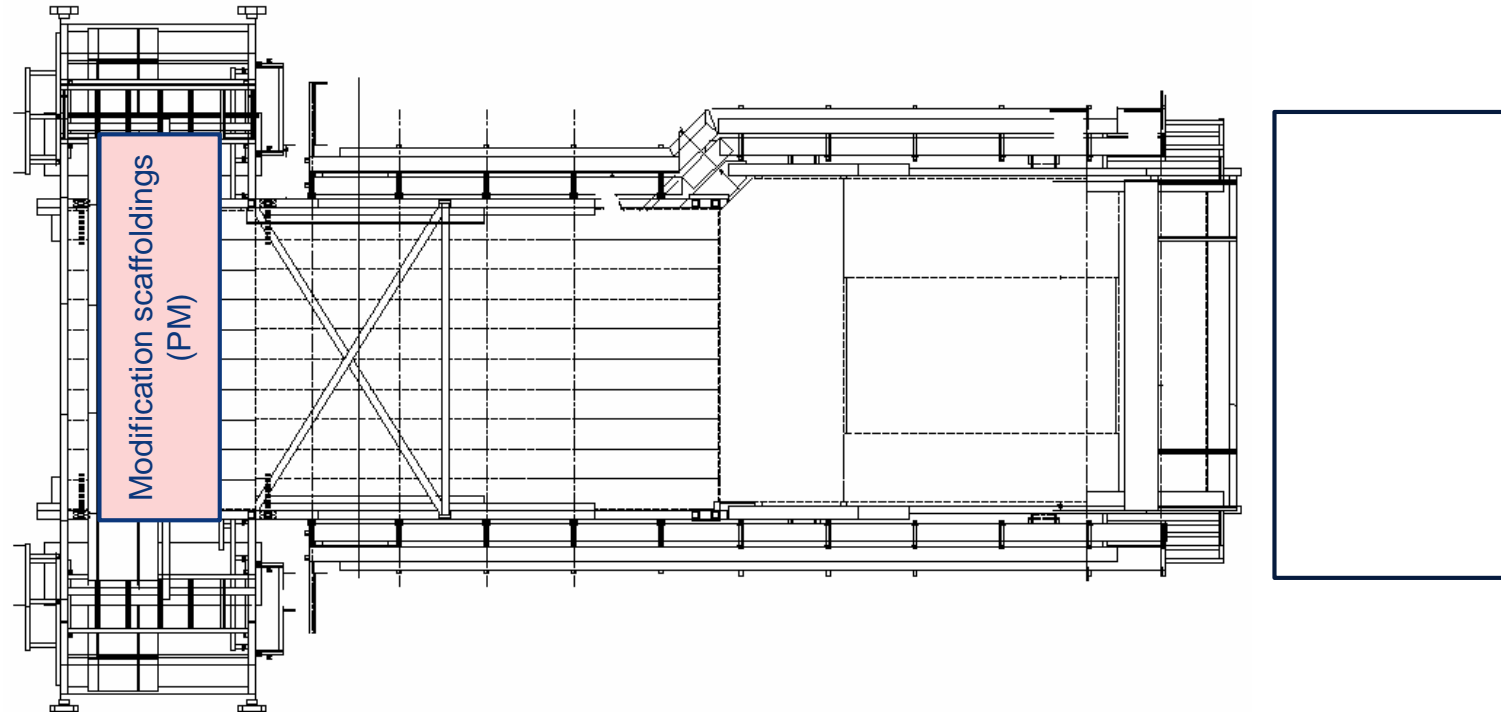
P2tech: modify MNF brackets in the back part of Miniframe (Cedric)

Cutting ITS crate tube (12 total) (Philippe)

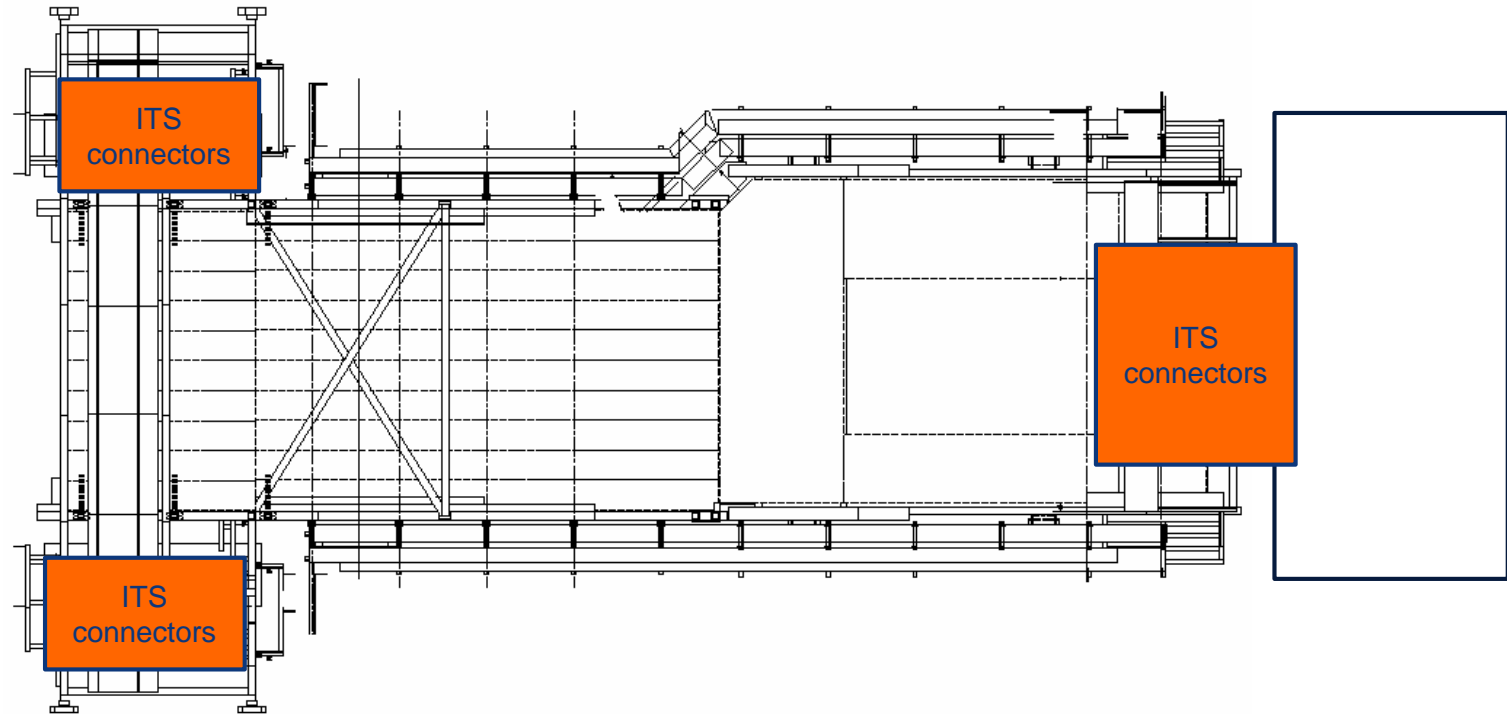


Miniframe activities w25 – Tue 16 Jun 2020

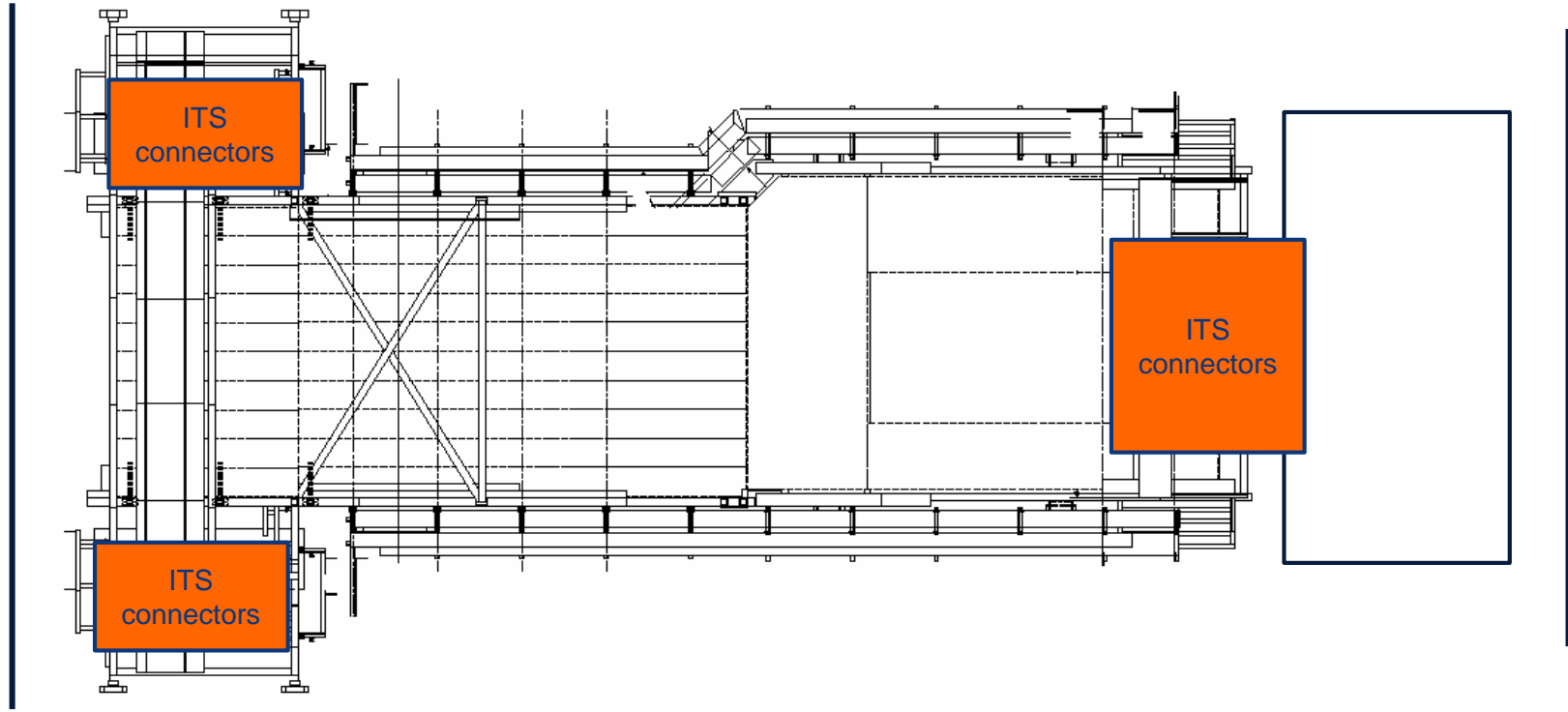
P2tech: production of and installation of MNF extensions (1/3) (Cedric)



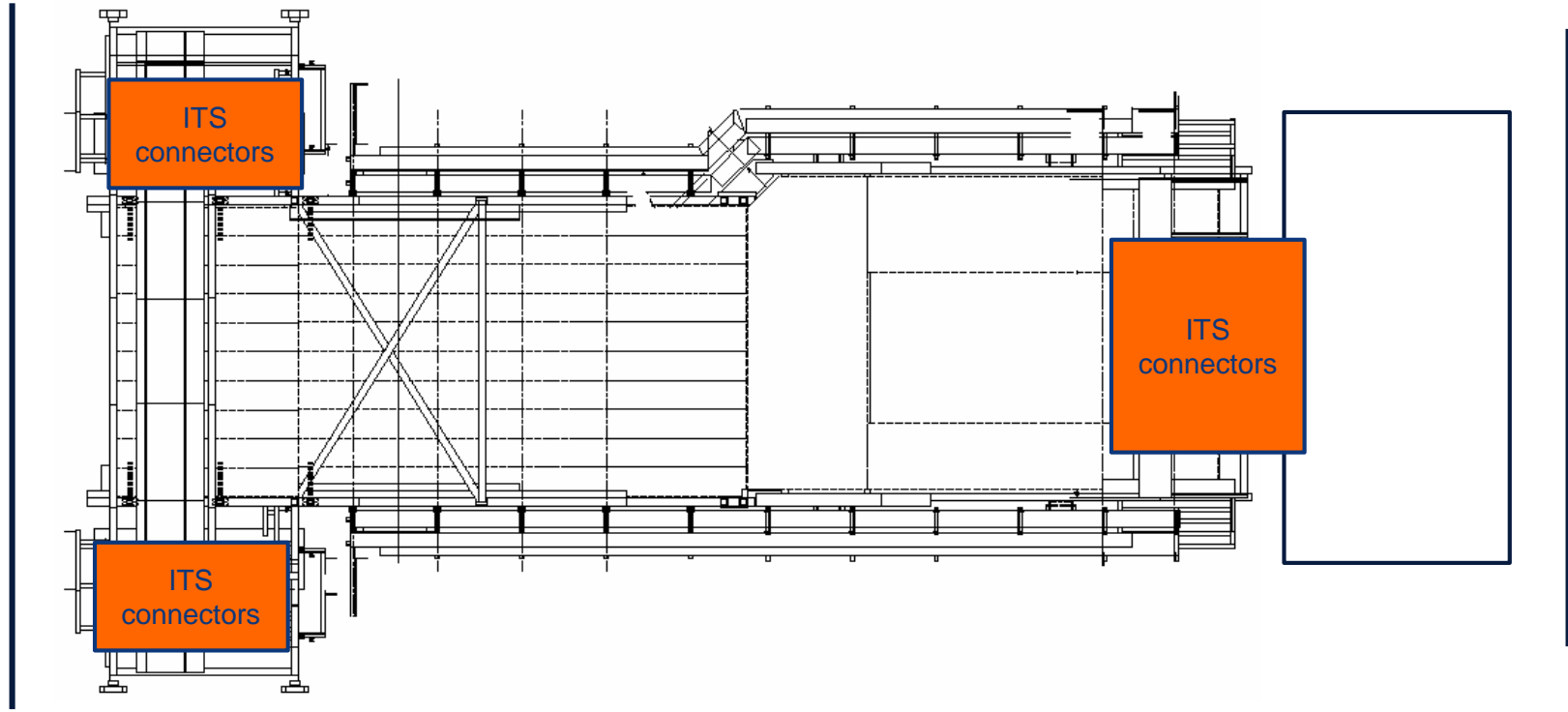
Miniframe activities w25 – Wed 17 Jun 2020



Miniframe activities w25 – Thu 18 Jun 2020



Miniframe activities w25 – Fri 19 Jun 2020



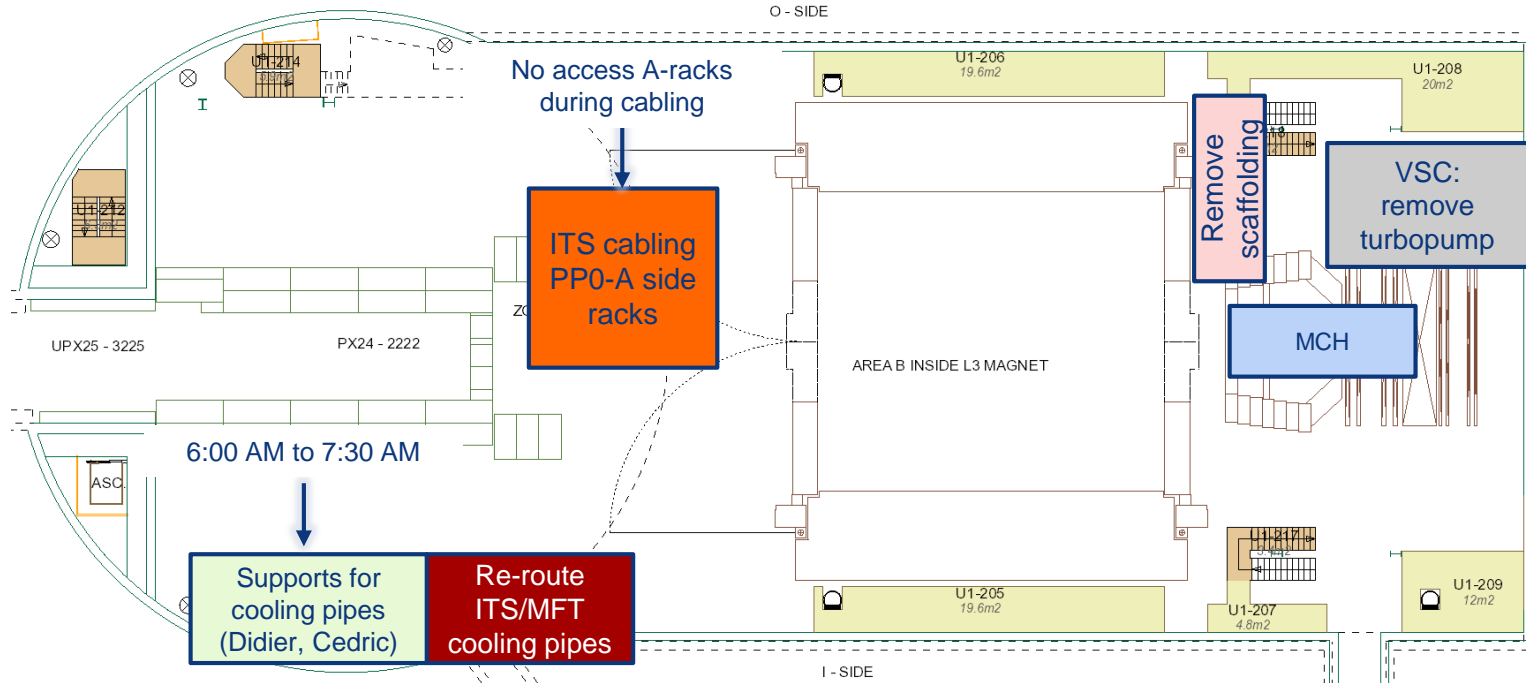
Day-by-day sequence w26



UX25 activities w26 – Mon 22 Jun 2020

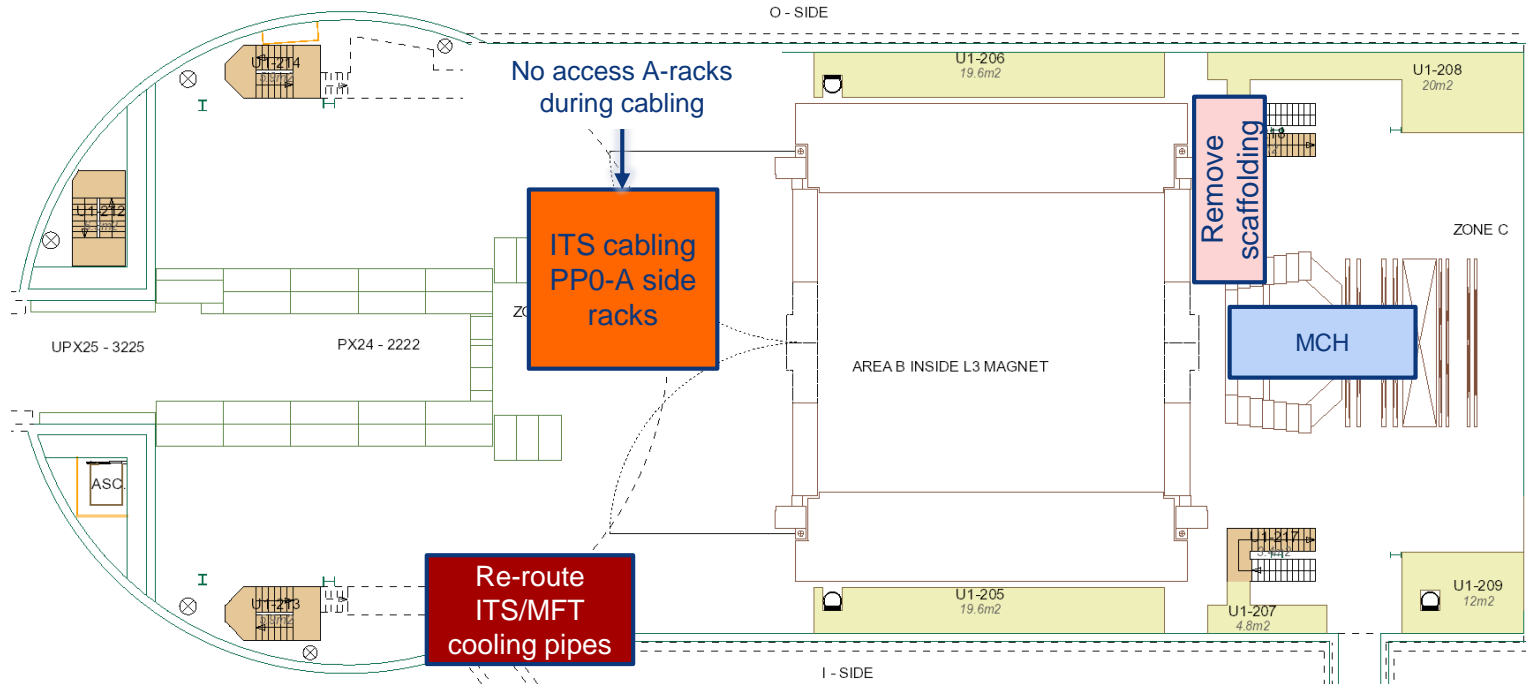
Replacement PM25 lift (until 7 August) → LHC access via ALICE (PX24)

TE-VSC: install valve on RB26 beampipe



UX25 activities w26 – Tue 23 Jun 2020

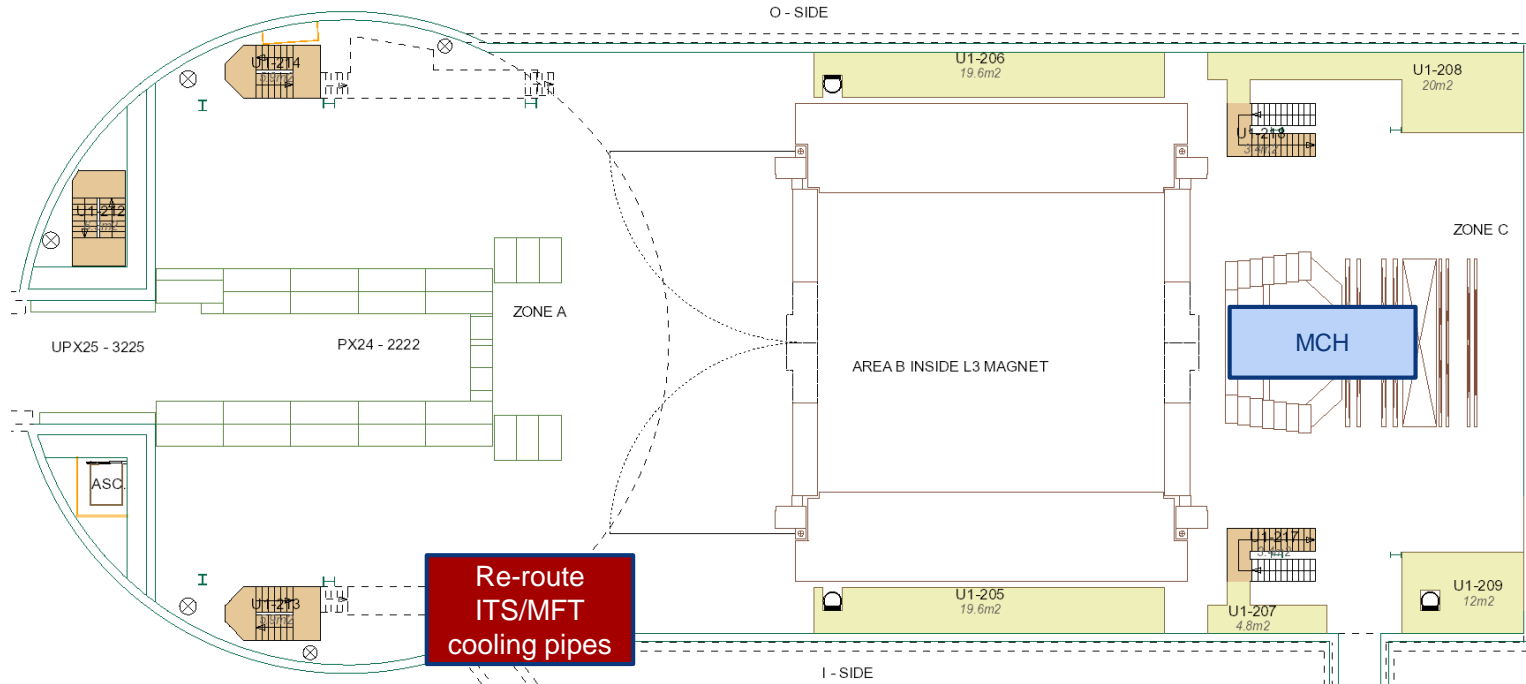
Cleaning cavern (Topnet): 13:00 to 15:00



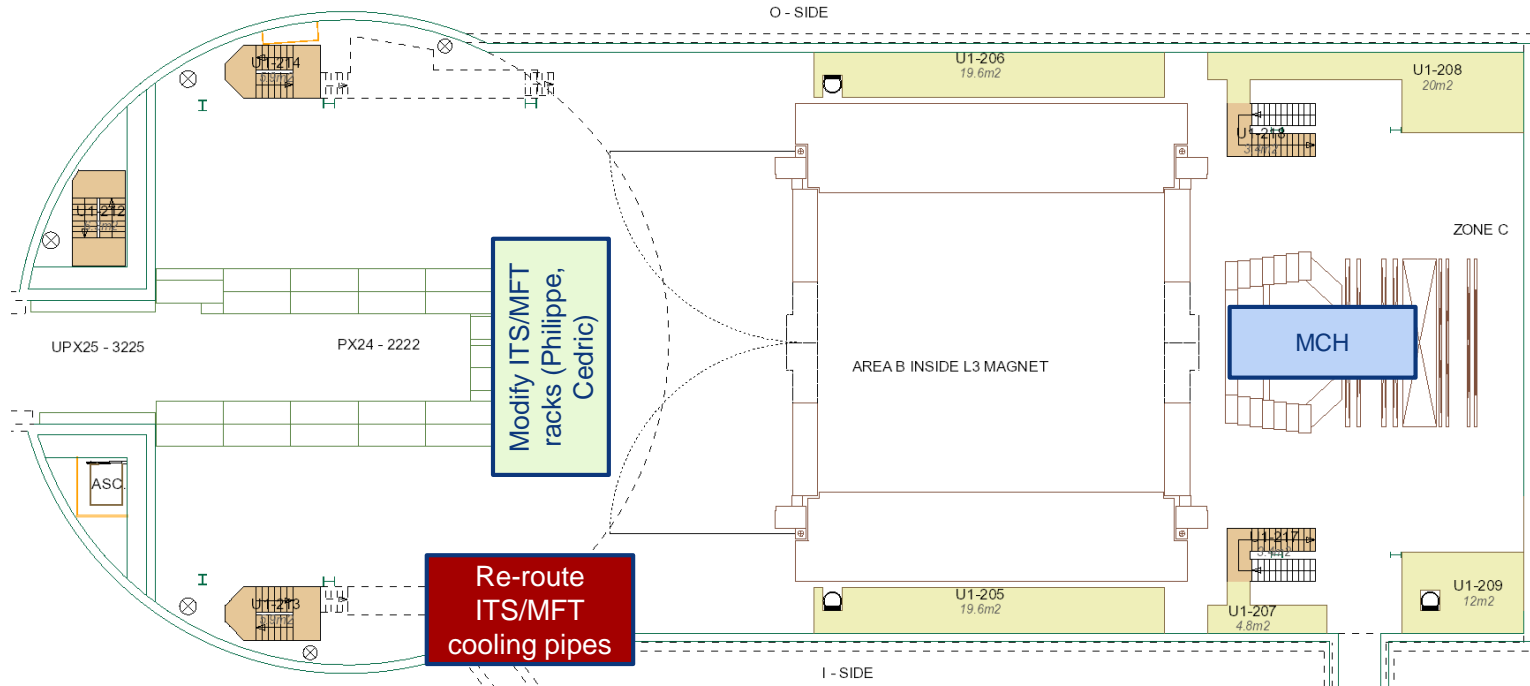
UX25 activities w26 – Wed 24 Jun 2020

Test HMPID fiber ageing

P2tech: install and weld beams to support CR3 false floor (Philippe + Cedric)

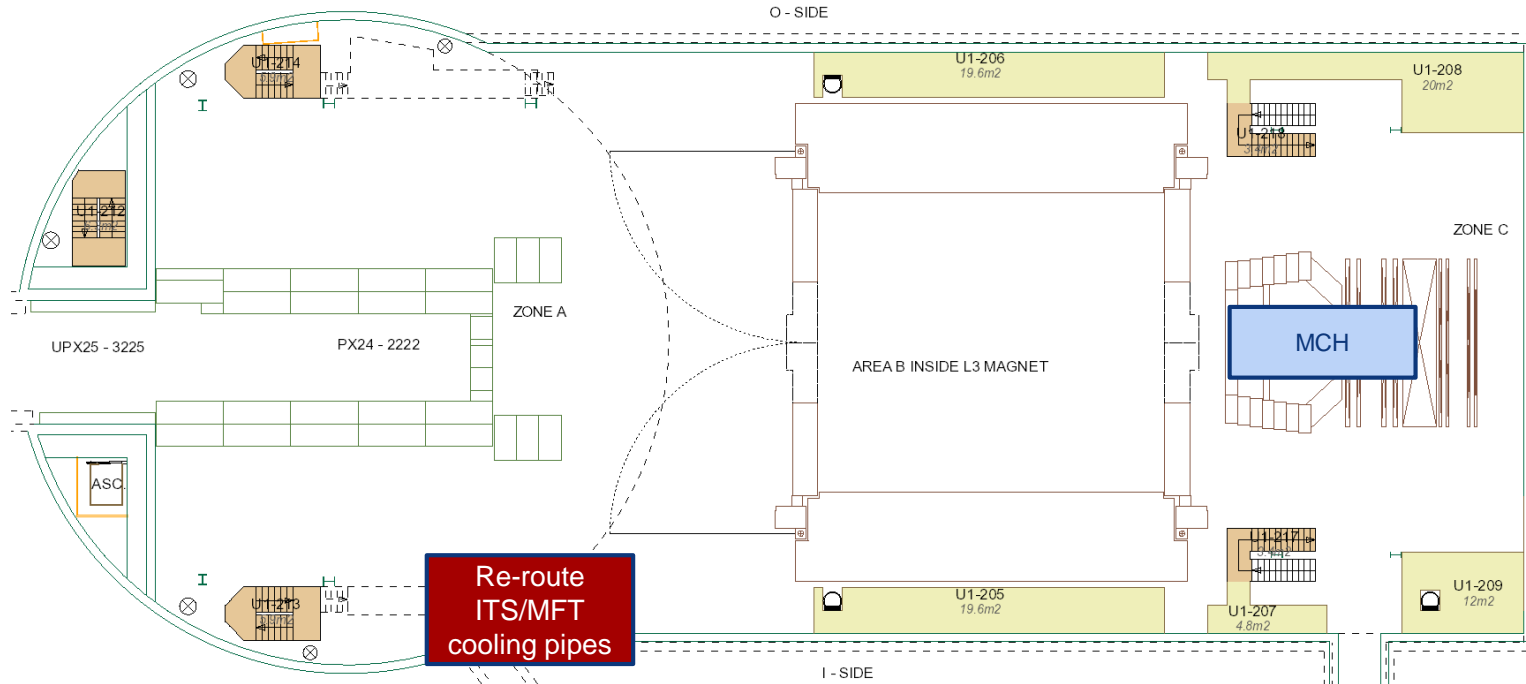


UX25 activities w26 – Thu 25 Jun 2020

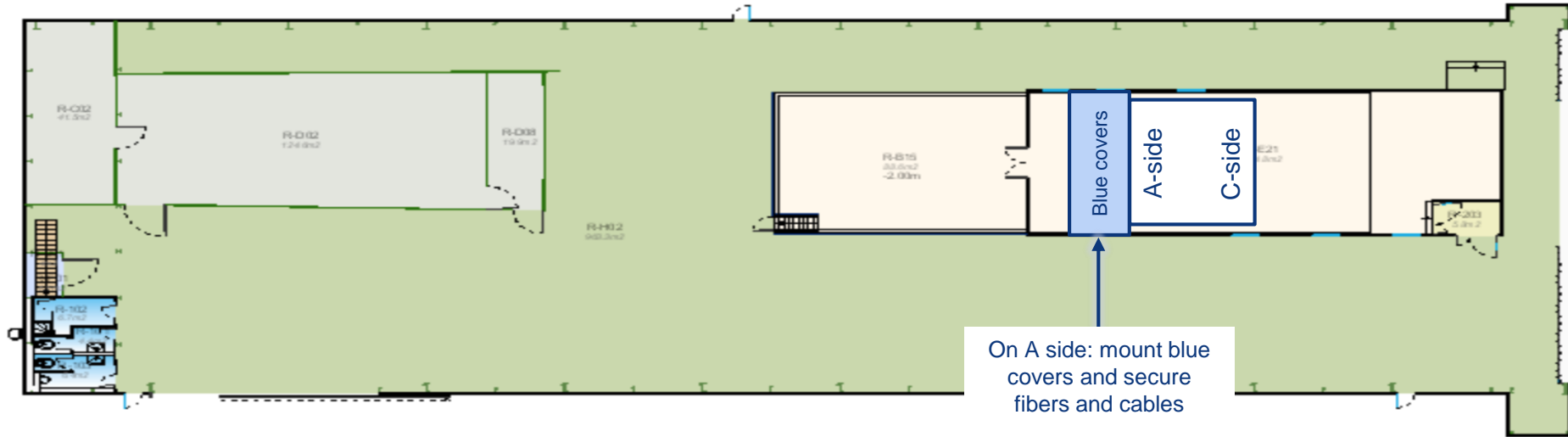


UX25 activities w26 – Fri 26 Jun 2020

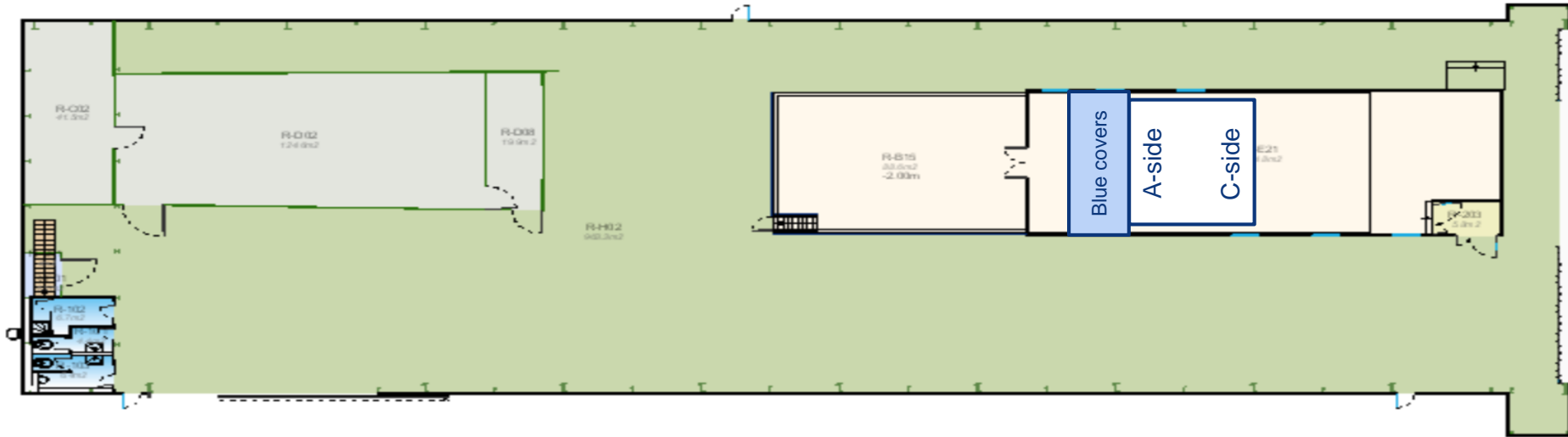
ALTEAD+HSE: inspection lifting equipment (AM)



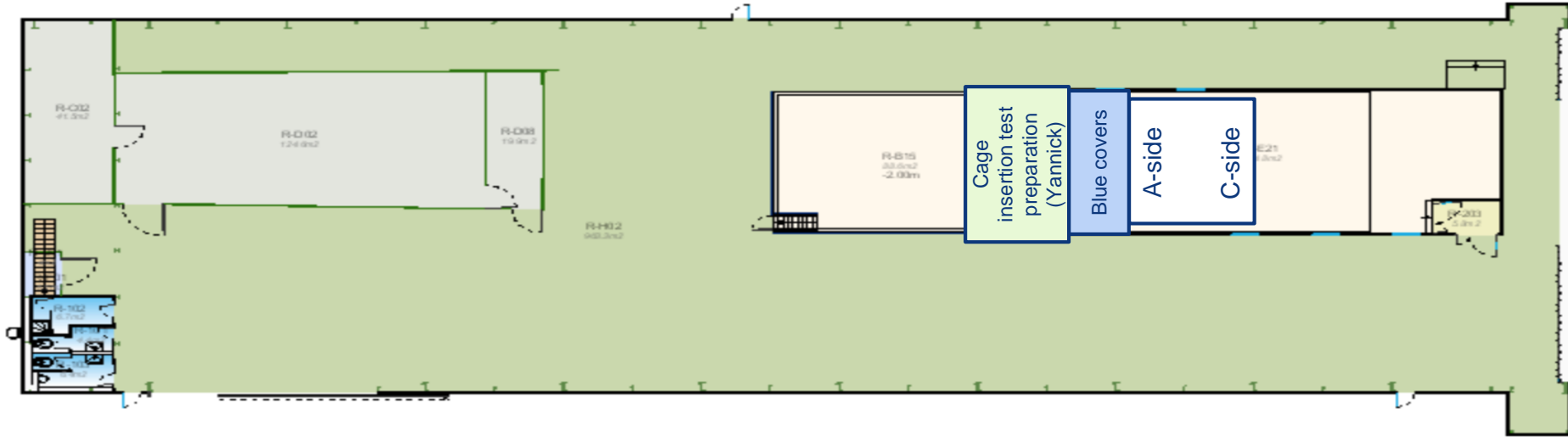
SXL2 activities w26 – Mon 22 Jun 2020



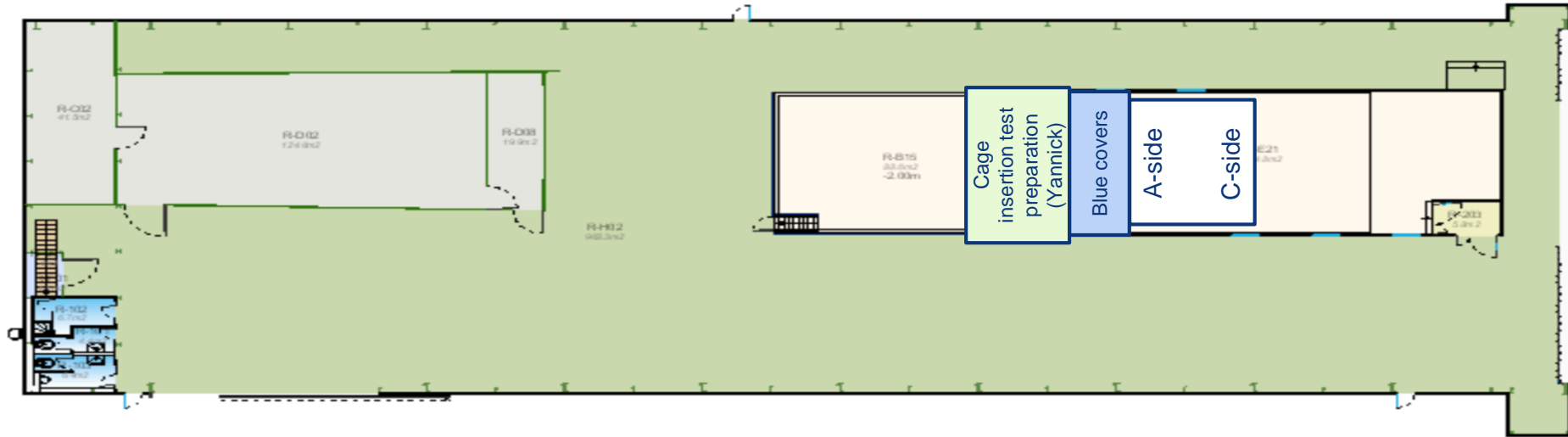
SXL2 activities w26 – Tue 23 Jun 2020



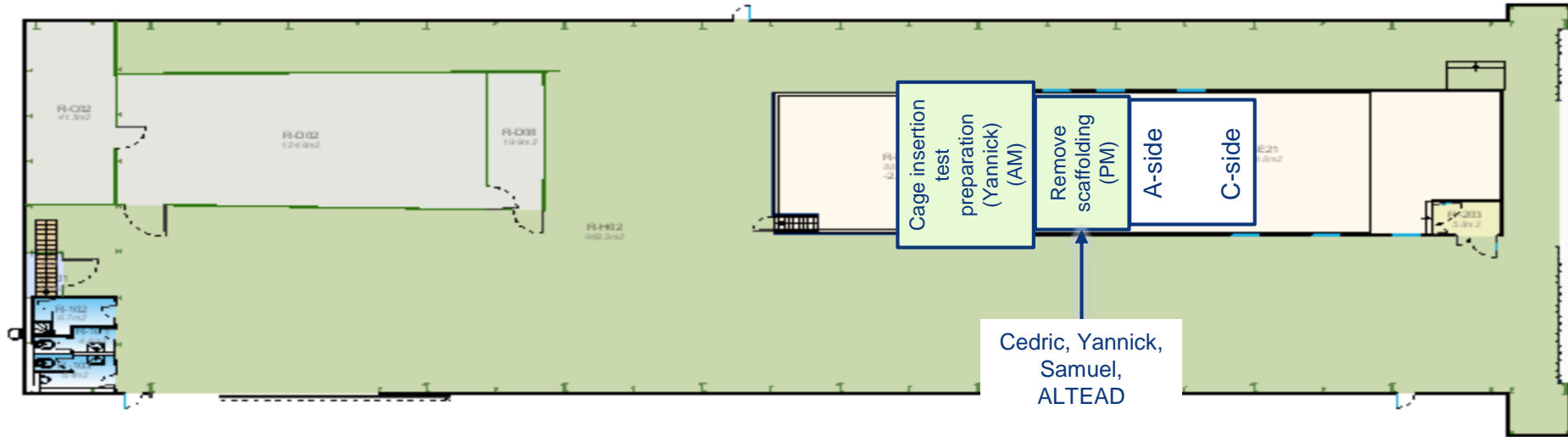
SXL2 activities w26 – Wed 24 Jun 2020



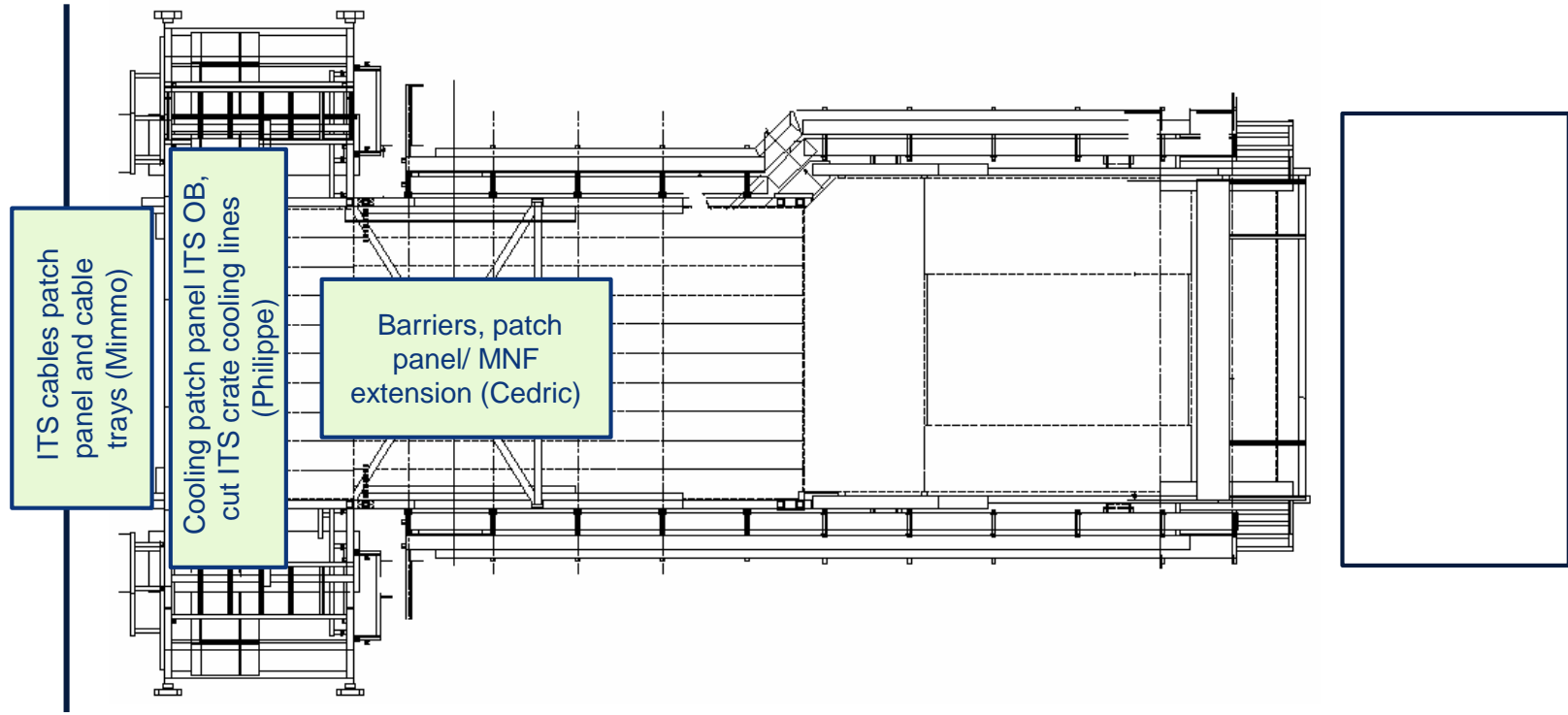
SXL2 activities w26 – Thu 25 Jun 2020



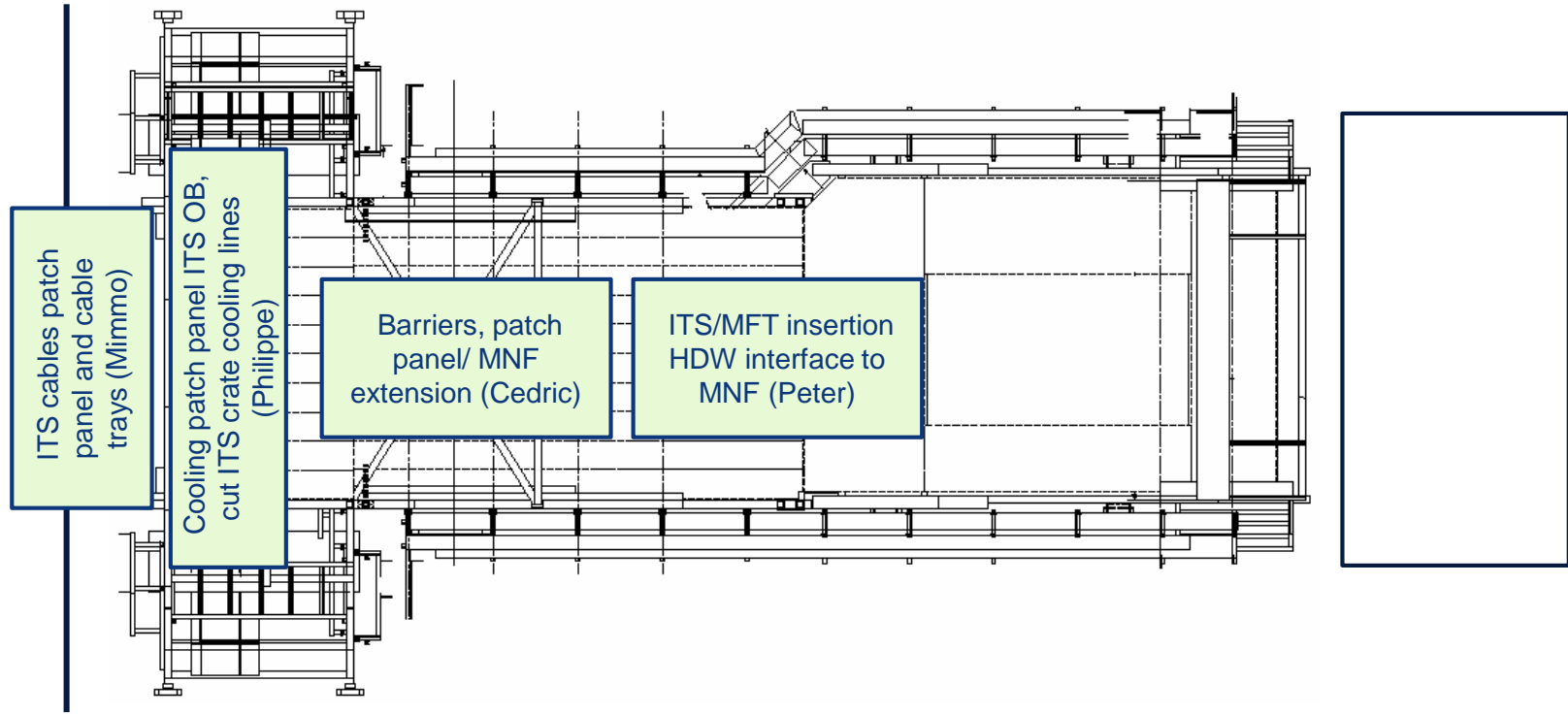
SXL2 activities w26 – Fri 26 Jun 2020



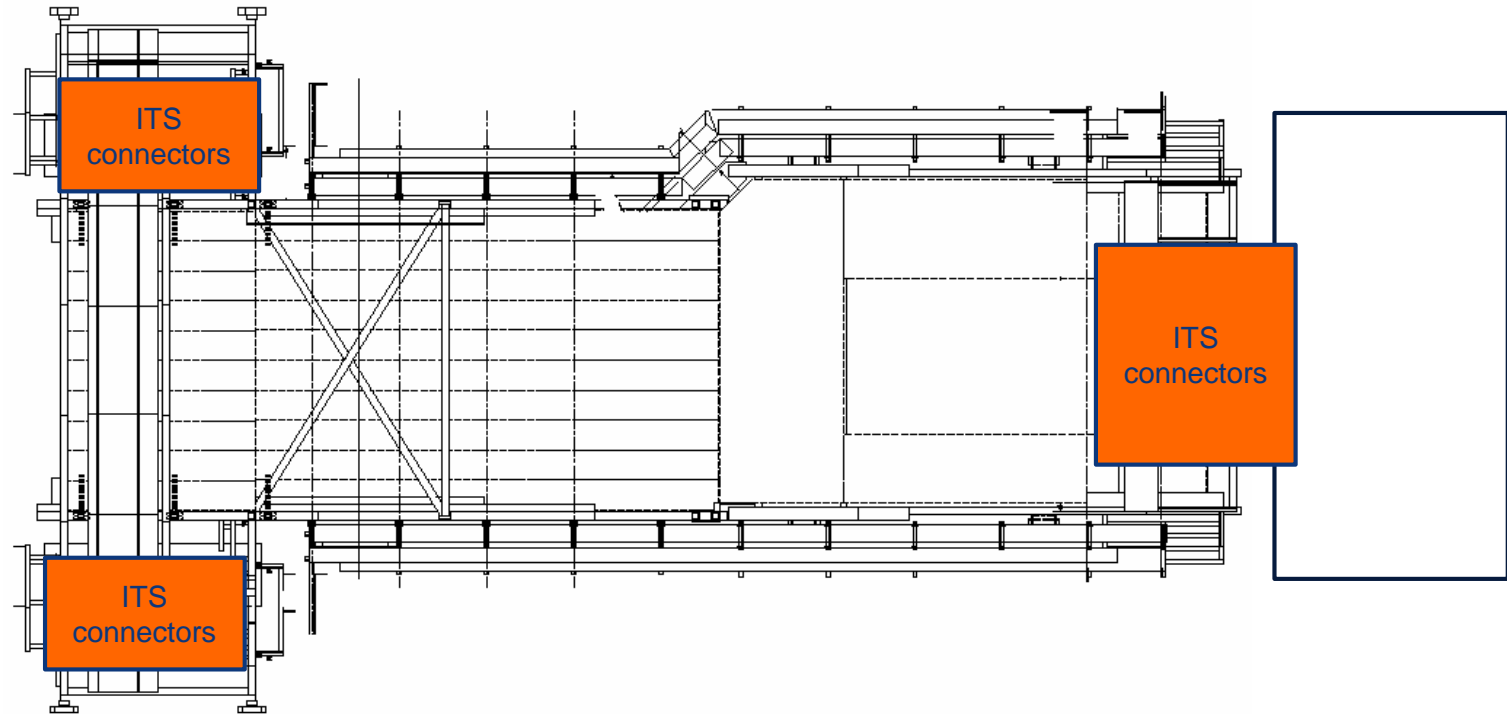
Miniframe activities w26 – Mon 22 Jun 2020



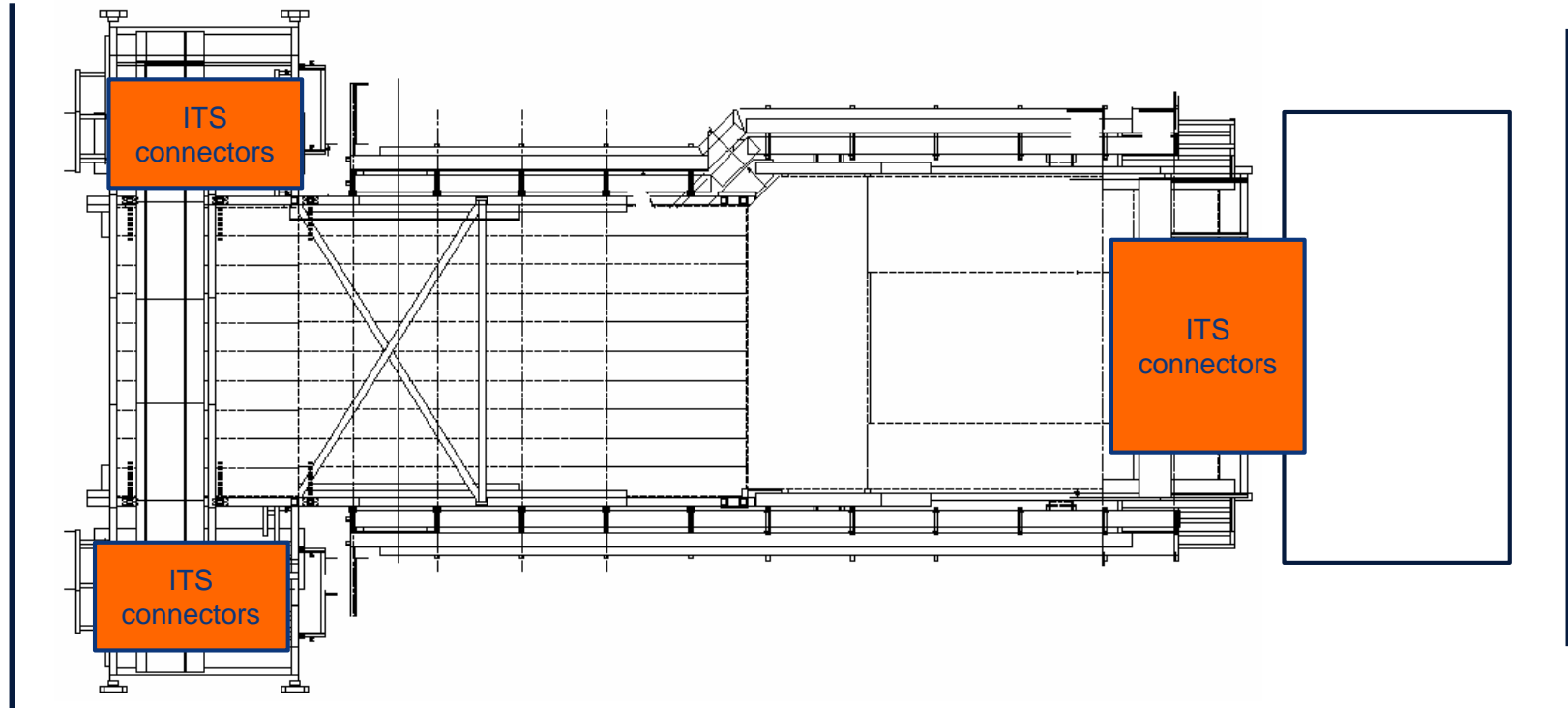
Miniframe activities w26 – Tue 23 Jun 2020



Miniframe activities w26 – Wed 24 Jun 2020



Miniframe activities w26 – Thu 25 Jun 2020



Miniframe activities w26 – Fri 26 Jun 2020

