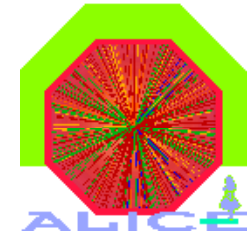




ALICE Shutdown Planning Meeting



Agenda:

- 1- LHC and ALICE shutdown schedule
- 2- DAQ/DCS/HLT schedule
- 3- Daily schedule review wks 10-11-12
- 4- Perturbations
- 5- ALICE visits
- 6- AOB

Status of P2 activities wk 10 (Mar.2nd – Mar. 7th)

General:

Philippe: maintenance L3 cooling system (calibration L3 flowmeters)

→ not done. L3 pump not ready, probably next week

EMCAL rotator upgrade (rolling system) (Nantes team) → done. Also targets on CALframe

Repair SX2 wall (fill hole above dosimeter reader) (GTM) → done

Cavern:

Altead: complete EMCAL infrastructure → done

Altead + EMCAL + P2Tech: integration test EMCAL → ongoing

Ouvaroff: scaffoldings (new TPC access, PP0, MNF, EMCAL fences and access) → done

P2Tech: hole L3 door → (4th wk) 40/100 mm removed

TPC: repair and test (12 A-side sectors) + leak test of Roc/Cover cooling circuit A-side

→ 12 sectors repaired, last 4 under test

Muon TRK: commissioning ST3-4 (Haulotte + ITECO)

ACORDE: move 20 ACORDE modules to SXL2 clean room → done

FMD: rate testing

Switch on T0-C detector (HV, LV). Work until March 15th

Survey UX25, Low Beta, UL24, US25 and UL26 → ongoing (will continue next week)

Miniframe:

Connectors SSD on PP0 (Confetronic) → ongoing

TPC: modification of cover/body cooling pipes

SSD: clean and label cooling lines → done

ALICE shutdown schedule

Wk 11	Mar.9 th – Mar.14 th	<p>TPC repair and test (remaining 6 A-side sectors) P2Tech: install EMCAL rails + removal ventilation duct L3 MZ: SDD fibers CR4 <-> PP0 and CR4 <-> PP4 (need HAULOTTE) SPD: reparation of 2 damaged pipes miniframe SPD: installation cables (P,T sensors) PP4 <-> rack A14 (delayed) SPD: installation P, T sensors on PP1 (miniframe) (delayed) Arrival EMCAL EU#1 module (11/3) Arrival TRD module (sector 0, Thu 12/3) Muon TRK: commissioning ST3-4 (ITECO) Installation ST3 access (Serguey) Electrical works UP25 (EN-HE) Survey UX25, Low Beta, UL24, US25 and UL26</p>
Wk 12	Mar.16 th – Mar.21 st	<p>TPC repair and test (remaining 6 A-side sectors) EMCAL: installation US#1 and EU#1 modules Muon TRG: switch on flammable gas (till wk 15)</p>
Wk 13	Mar.23 rd – Mar.28 th	<p>TPC repair and test (remaining 6 A-side sectors) Removal of EMCAL installation infrastructure Connection of EMCAL modules in L3 Mark area telescopic crane (PA959) in UP25 (1 day) TOF: repair HV connectors + rearrange cables Calibration dipole flowmeters Muon TRK: cosmic run</p>

ALICE shutdown schedule

Wks 14-16	Mar.30 th – Apr.18 th	TPC repair and test (remaining 6 A-side sectors) Muon TRK: cosmic run (wk 14) TRD (sector 0, wk 15) PHOS (1 module) ACORDE: reinstall 40 scintillators (wk 15)
Wk 17	Apr.20 th – Apr 25 th	Removal of A-side TPC temporary services Dismantle TPC scaffolding Compensator platform
Wk 18	Apr 27 th – May 2 nd	<u>Miniframe</u>
Wks 19-25	May 4 th – Jun.20 th	Miniframe testing and connections V0&FMD and PMD (wk 22) Compensator magnet and A-side beampipe (wks 23-24) PHOS (2 modules) TRD (sectors 8 and 10/16)
Wk 25	Jun.20 th	Close L3 doors
Wks 26-33	Jun.22 nd – Aug.15 th	Powering tests of sectors 12 and 23 (very restricted cavern access)
Wks 34-36	Aug.17 th – Sep.5 th	Shielding and ventilation
Wk 37	Sep.7 th – Sep.12 th	PX24 plug ALICE ready

Global Commissioning

Wks 10-27	Mar.2 nd – Jul.4 th	Standalone tests (detectors ready by Jul.4 th)
Wks 28-31	Jul.6 th – Jul.31 st	DAQ integration tests
Wks 32-38	Aug.3 rd – Sep.19 th	Continuous cosmic run. 24/7 continuous operation

Transfer line tests

Wk 23	Jun.6 th -7 th	T18 (no ions)
Wk 26	Jun.27 th -28 th	T12 (no ions)

Injection tests

D-Day-2	Sep.5 th -6 th	Beam 2 injection test
D-Day-1	Sep.12 th -13 th	Beam 1 injection test (possibly with ions)
D-Day	Sep.21 st	First LHC circulating beam
D-Day+4	Oct.19 th	High energy collisions

Miniframe modification schedule

Not definitive schedule

Week	Monday	Sec 0	Sec 1	Sec 2	Sec 3	Others	
10	2/ mars 2009	Complete mechanics		TPC cables and bottom false floor			
11	9/ mars 2009	SDD and SPD cables		TPC cables and bottom false floor			
12	16/ mars 2009	SDD and SPD cables		SSD Cables	SSD Cables	MNF lateral protection	
13	23/ mars 2009	SPD and SDD fibers		Finish mechanics		MNF lateral protection	
14	30/ mars 2009	Close false floor and SSD cables		SDD and SPD cables	Finish mechanics	MNF lateral protection	
15	6/ avril 2009			SDD and SPD cables	SDD and SPD cables	MNF lateral protection	
16	13/ avril 2009				SDD and SPD cables		
17	20/ avril 2009			SPD and SDD fibres			
18	27/ avril 2009	Remove scaffolding, Install and test lifting jigs, install MNF					
19	4/ mai 2009						

PHOS schedule

1st Module (cradle position #2, PHOS #3):

Wk 10	Mar.2nd- Mar.7th	Complete box, mounting feed-through
Wk 11	Mar.9th	Leak test, transport module to Meyrin (P2 transport needed)
Wk 18		1st module ready for installation

2nd module:

Wk 11	Mar 9th	Start box fabrication
Wk 22	May 25th	2nd module ready for installation

3rd module:

Wk 25	Jun.15th	3rd module ready for installation
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ALICE DAQ schedule

Wk 8	16-Feb	TOF: investigate issue with broken and/or badly connected fibres (help asked to ESS)
Wk 8-12		EMCAL standalone test in SX2. Standalone DAQ system of EMCAL upgraded (new DATE sw and 1 additional D-RORC)
Wk 8-17		TPC: tests with temporary services A side
Wk 11-14	09-Mar	Cosmic run Muon TRK + TRG 2 weeks commissioning + 2 weeks run
Wk 14-18	30 Mar	DAQ: hw deliveries (ACR PCs, Stage 2 LDCs) Installation in WR3 (former meeting room, ready in time ?) Interruptions (date to be decided with each group) of DAQ for hw upgrade for SPD, SSD, SDD, TRD, HMPID, PHOS, Muon TRG, FMD, CTP, HLT
Wk 14-17		PHOS (verify DDL cabling)
Wk 20-26	11 May	DAQ: hw deliveries (Stage 3 Storage + GDCs + DQM/DA) 4 more racks needed in CR1
Wks 23-26		Commissioning ITS, PMD
Wk 28	06-Jul	Restart DAQ day shifts + shifter training
Wk 32	03-Aug	ALICE ready
Wk 32		Restart DAQ 24/7 shifts

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P.Vande-Vyvre

ALICE DCS schedule

- Wk 10** **Installation of CAEN filter unit T0 (Done 27/2)**
Upgrading of Hazemeyer circuit breakers racks (Done 4/3: ACO,T0,V0,ITS)
- Wk 12-13** **Upgrading of Hazemeyer circuit breakers (3rd batch, tbc)**
½ day interruption of power to racks concerned (Muon, TRD, FMD)
- Wk 15** **Final tests of cooling water valve control**
short stops of cooling water supply
- Wks 15-16** **Upgrading of rack control (tbc)**
Rack tests: stop all racks 1 full day
- Wk 16** **Upgrading of Hazemeyer circuit breakers (4th batch, tbc)**
½ day interruption of the power to the racks concerned
- Wk 26** **Interlock test & verification**
Short stops detector per detector
- Wks 14-27** **Upgrading of turbine units (tbc)**
Rack ventilation stopped 30' per 10 racks
- DCS Integration sessions:**
- | | |
|-------------------------|------------------------------------|
| Mar/Apr. 09 | 1st round (DIS1) |
| June 09 | 2nd round (DIS2) |
| As from end June | Common ½ days sessions |

ALICE HLT schedule

Wks 5 ... Standalone tests

HLT cluster always on

- Assist TPC RCU tests
- preparation MUON cosmic runs/commissioning

Further schedule :

HLT upgrade : ~100 PCs not yet scheduled

- depends on LHC schedule ... maybe May

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J.Thaider/O.Haaland

Gas systems

- Maintenance of flammable gas detection system is ongoing and will be completed by Fri 6/03. All gas systems which were running will be restarted just after.
- Cleaning of spare lines for TPC (to replace the leaking one) will start on Tue 10/3 and last all week (VIC with company Constantin on Mon 9 at 9:30). Piping for final connection to gas system (and commissioning tests) will be done by the Gas Group at the beginning of week 12, before MTR starts using flammable gas mixture.

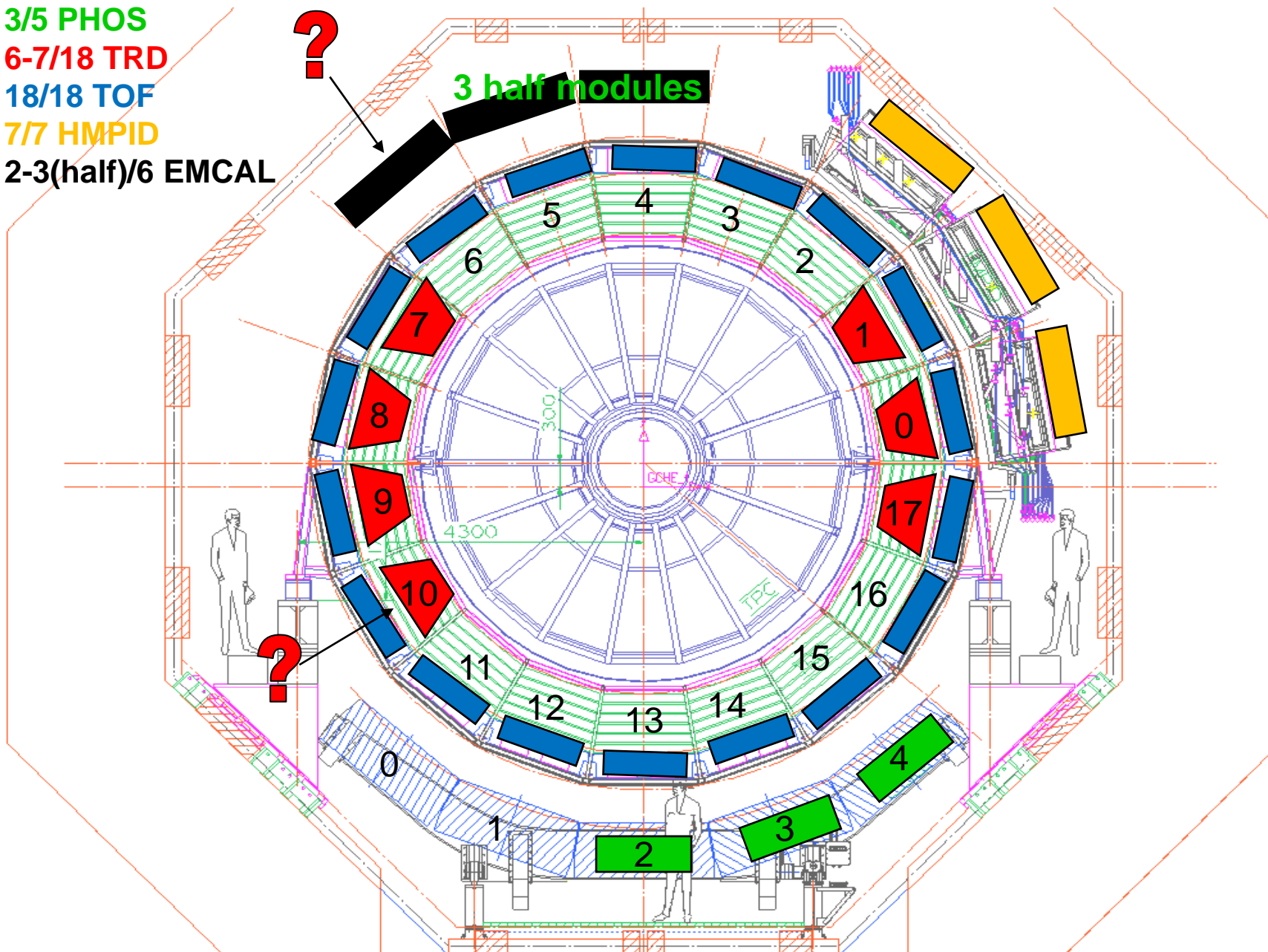
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A.Di Mauro

Detector status by the end of the shutdown

3/5 PHOS
6-7/18 TRD
18/18 TOF
7/7 HMPID
2-3(half)/6 EMCAL

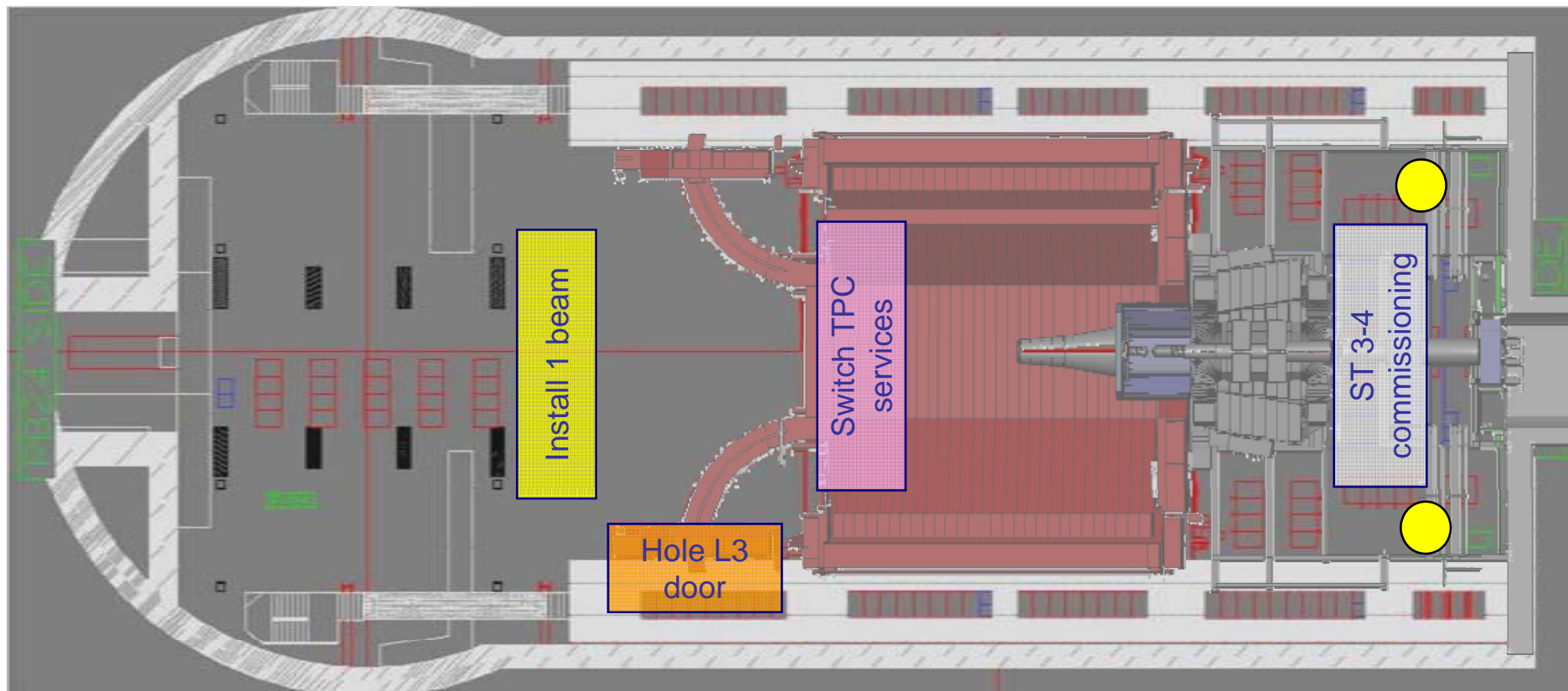


UX25 activities - Week 10 (2/3 – 7/3)

Detectors and services installation Week 10 2/3 Monday

SX2: EMCAL rotator upgrade (rolling system) (Nantes team)

Survey UX25, Low Beta, UL24, US25 and UL26



DT PH EN/MEF EN-CV Muon EN-EL

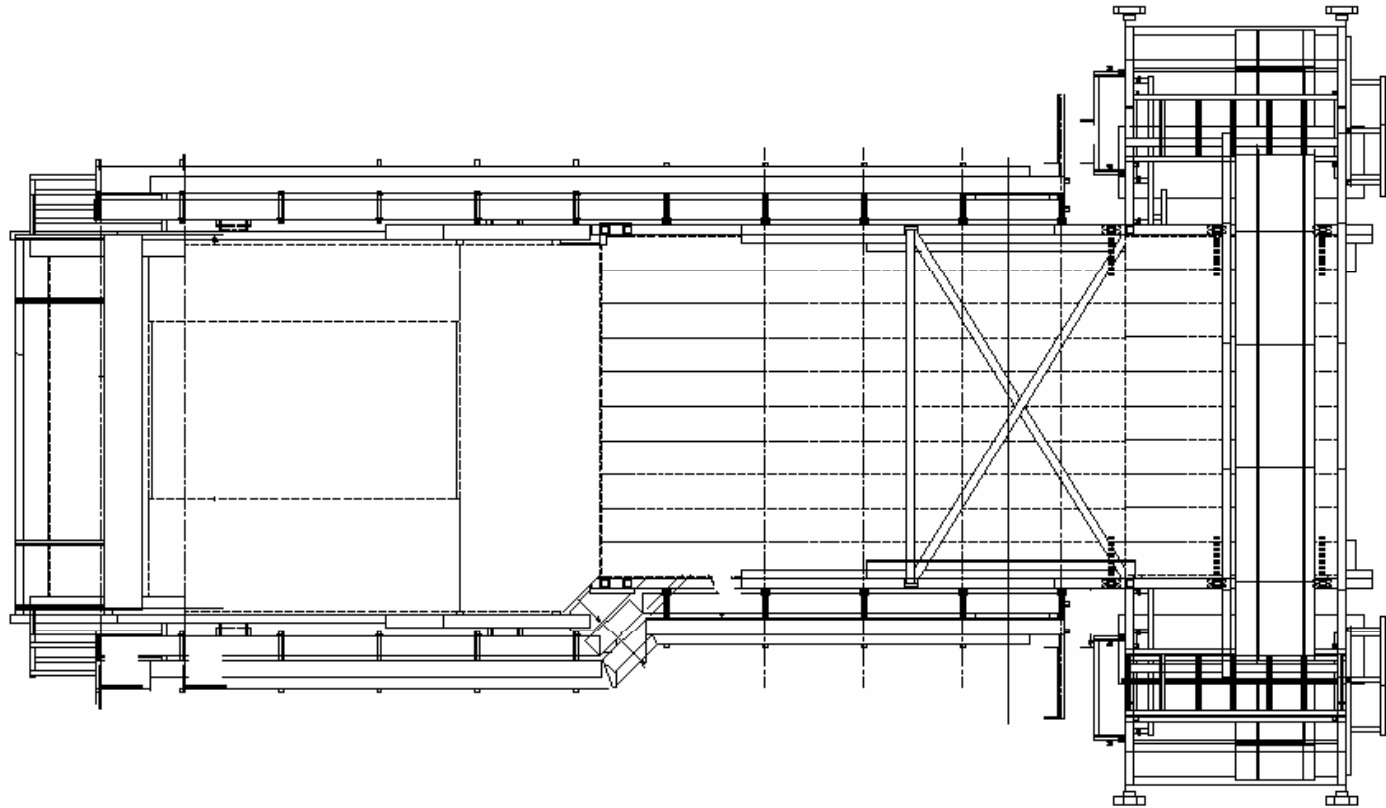
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Miniframe activities SX2 - Week 10 2/3 Monday

Connectors
SSD on PP0



DT PH EN/MEF EN-CV Muon EN-EL

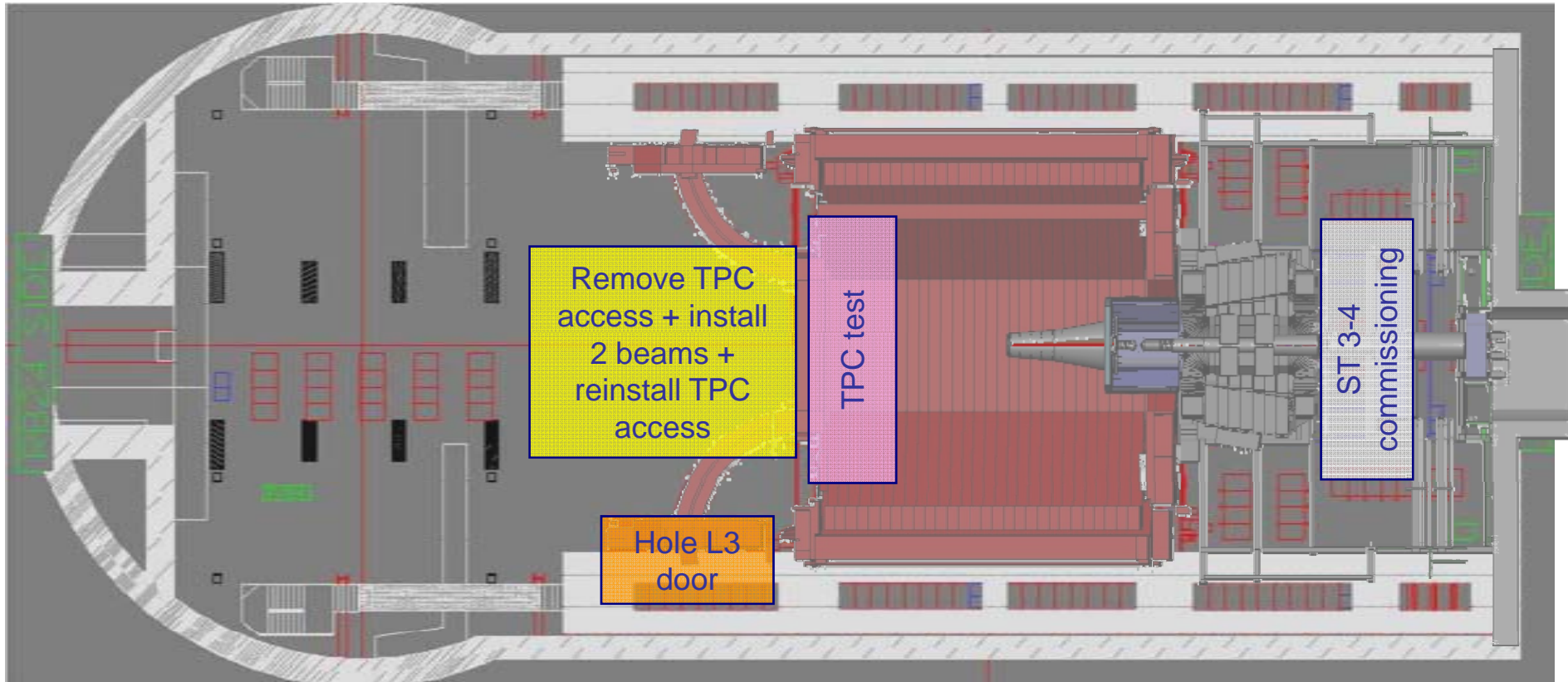
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Detectors and services installation Week 10 3/3 Tuesday

Removal electric switchboards (M.Codoceo). CHD looks into this



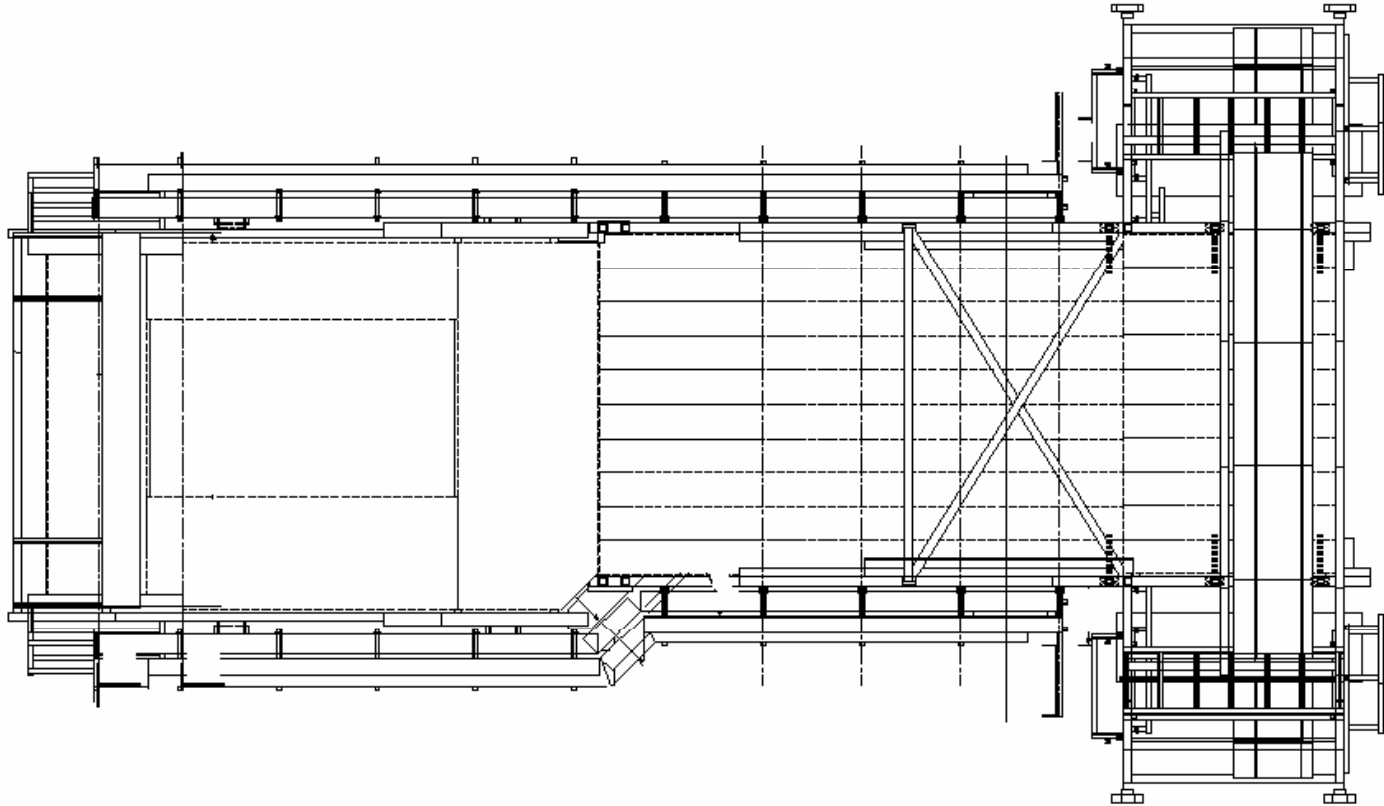
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Miniframe activities SX2 - Week 10 3/3 Tuesday

Connectors
SSD on PP0



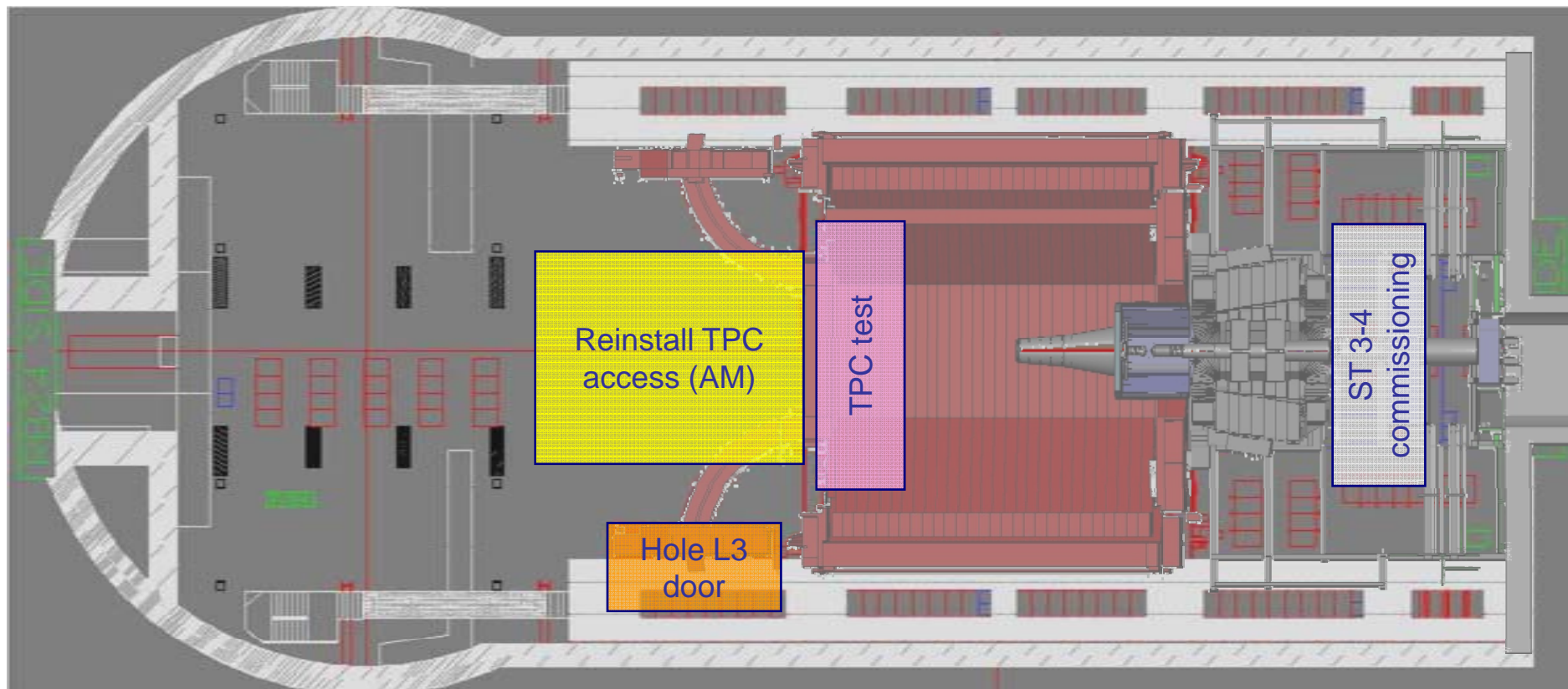
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Detectors and services installation Week 10 4/3 Wednesday



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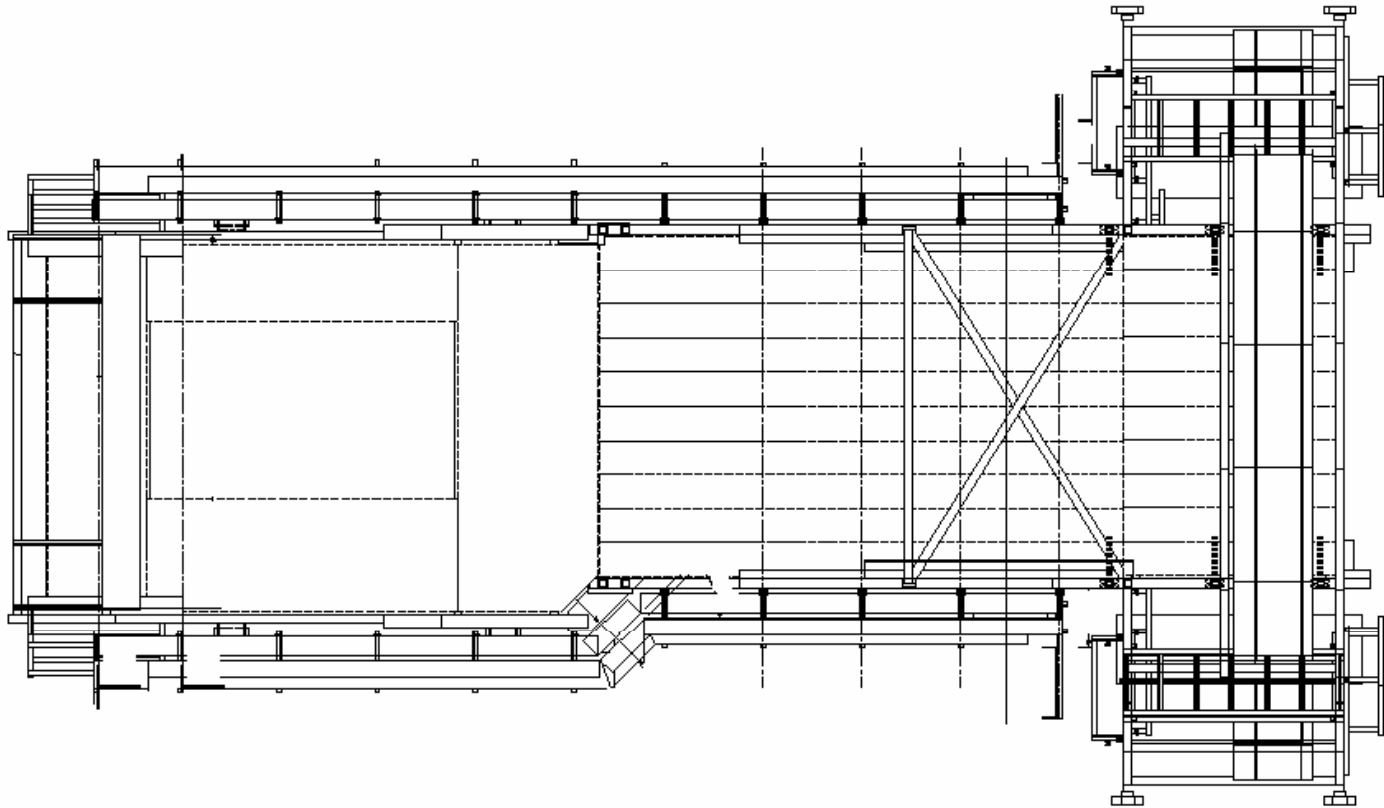
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Miniframe activities SX2 - Week 10 4/3 Wednesday

Connectors
SSD on PP0



DT PH EN/MEF EN-CV Muon EN-EL

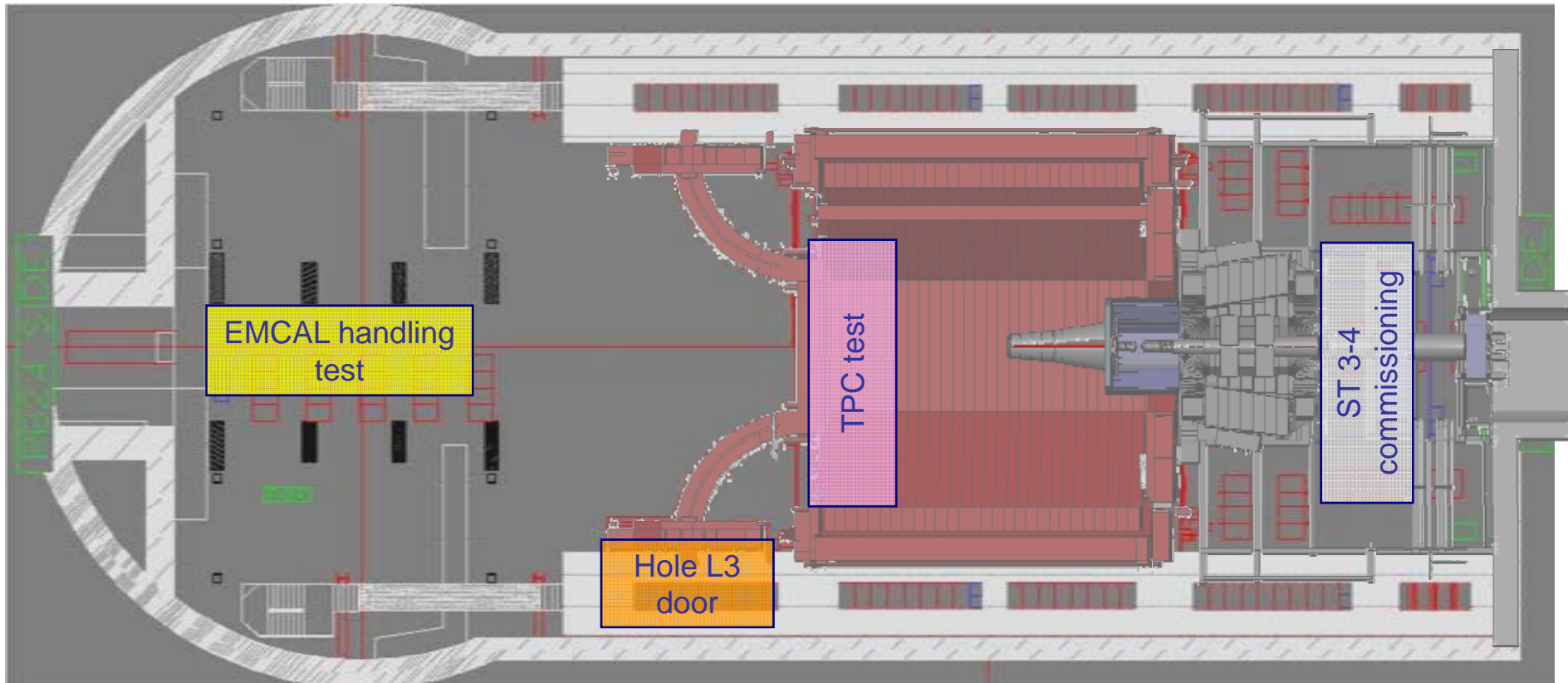
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Detectors and services installation Week 10 5/3 Thursday

ACORDE: remove 20 scintillators



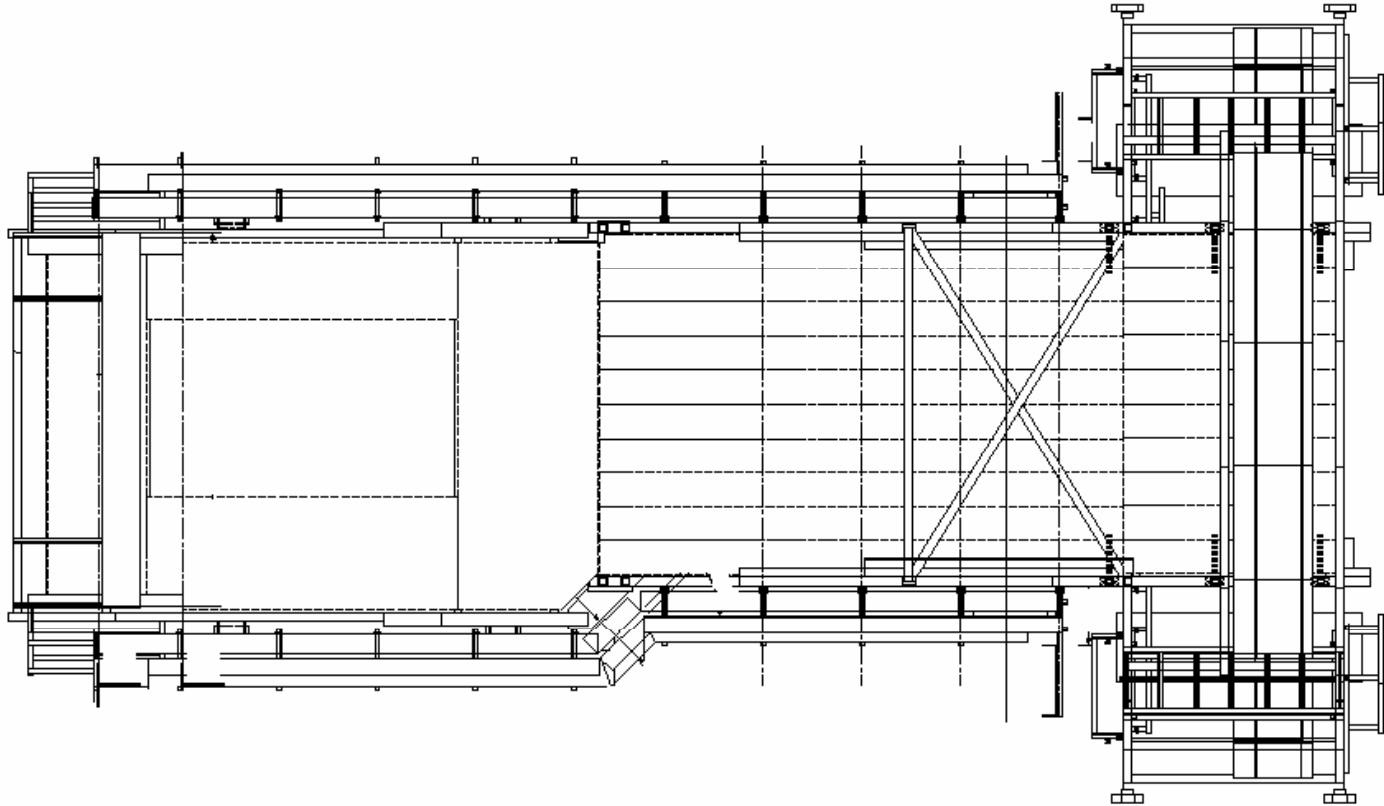
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Miniframe activities SX2 - Week 10 5/3 Thursday

Connectors
SSD on PP0



DT PH EN/MEF EN-CV Muon EN-EL

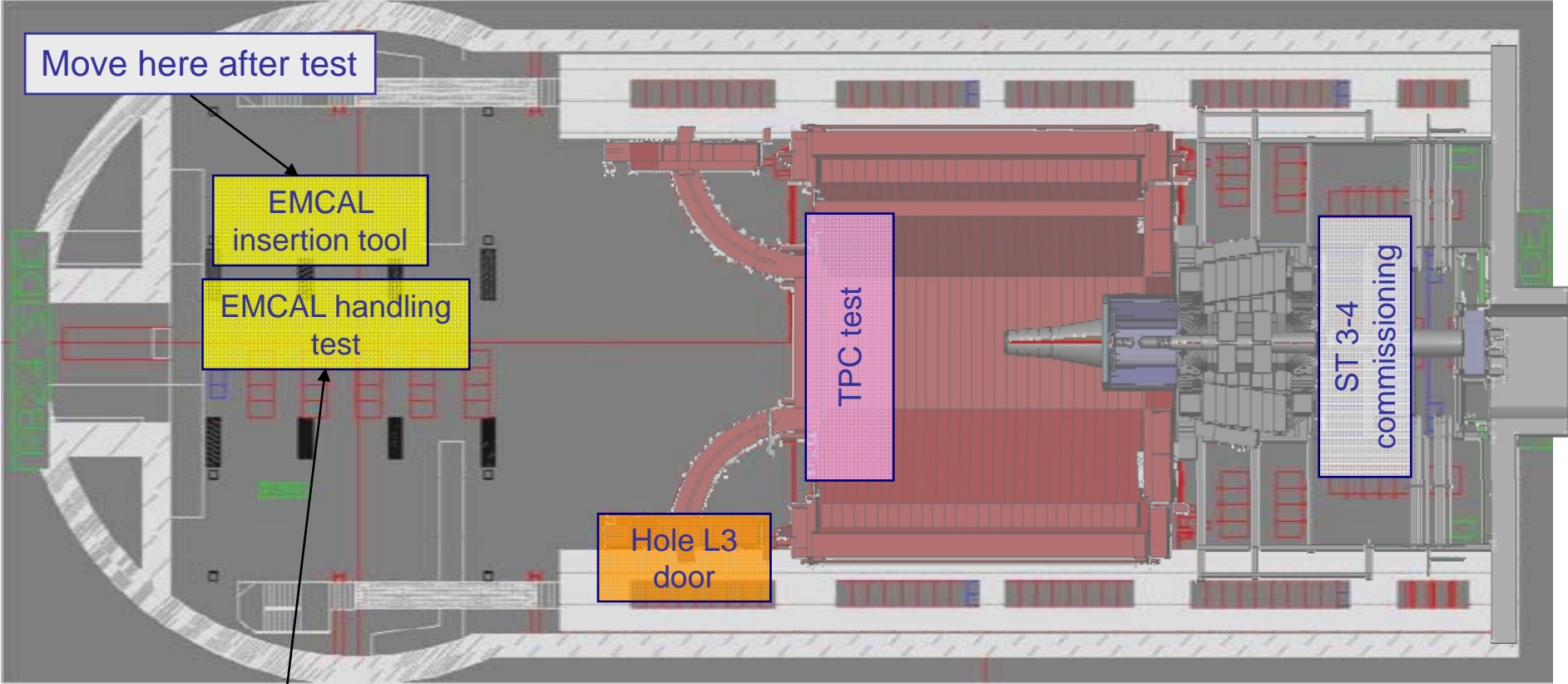
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Detectors and services installation Week 10 6/3 Friday

Many ALICE visits (60 visitors)

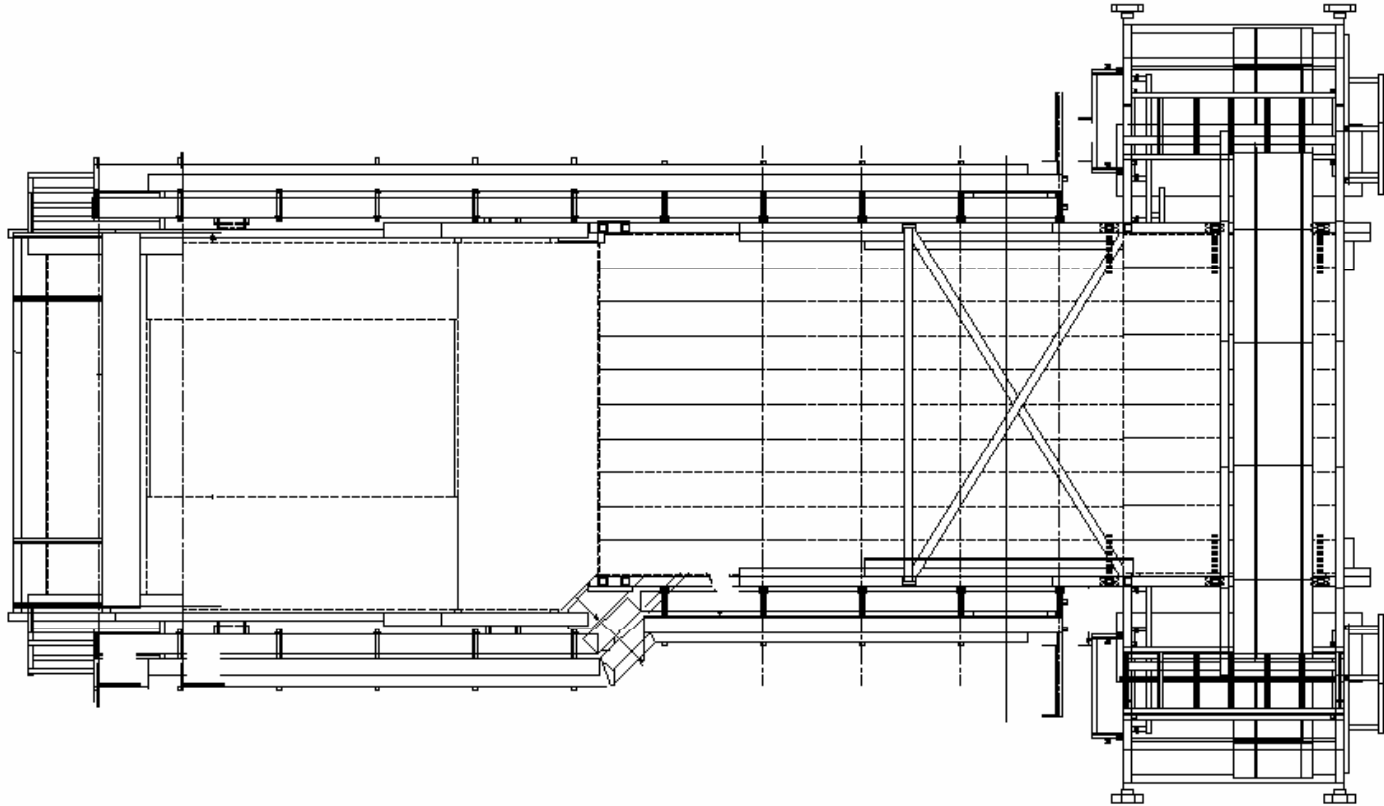


Insertion tool + yellow platform

- DT
- PH
- EN/MEF
- EN-CV
- Muon
- EN-EL

Miniframe activities SX2 - Week 10 6/3 Friday

Connectors
SSD on PP0



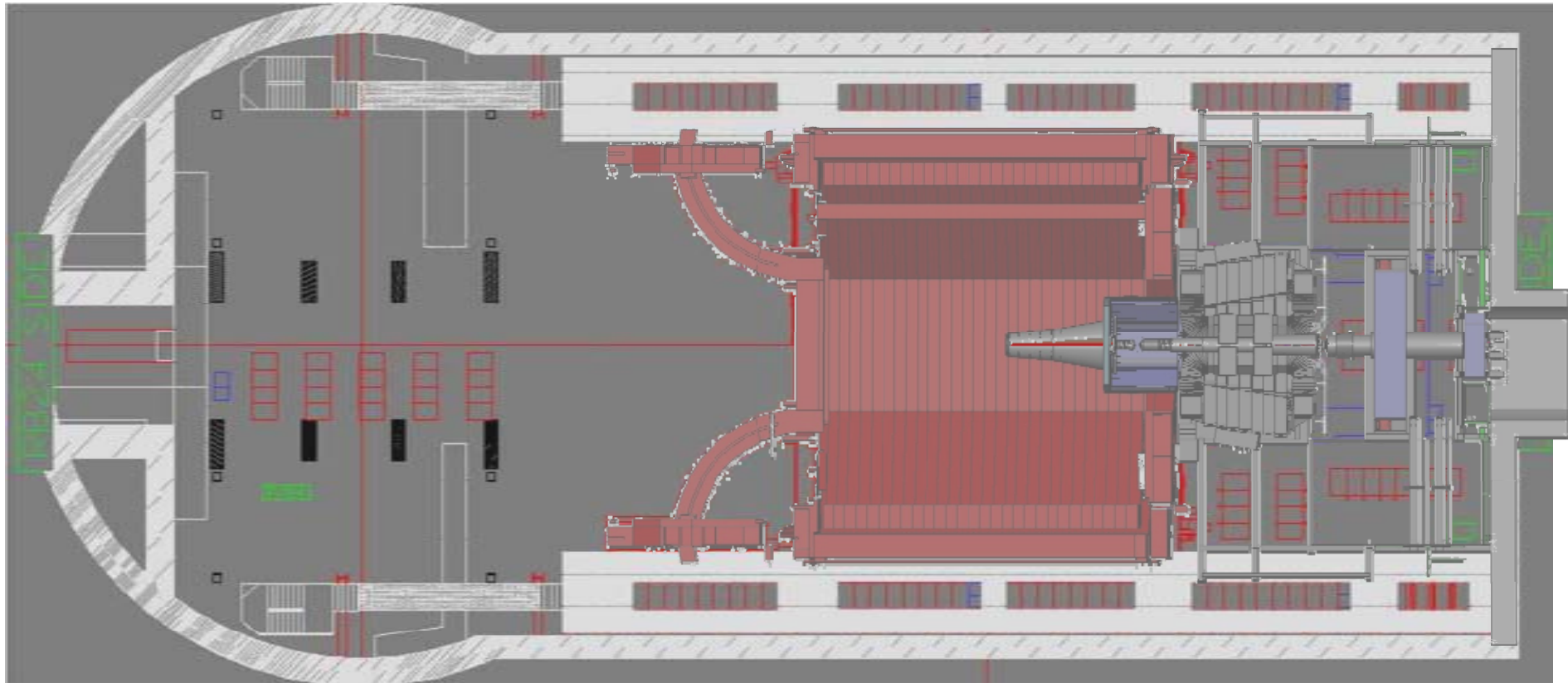
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Detectors and services installation Week 10 7/3 (Saturday)

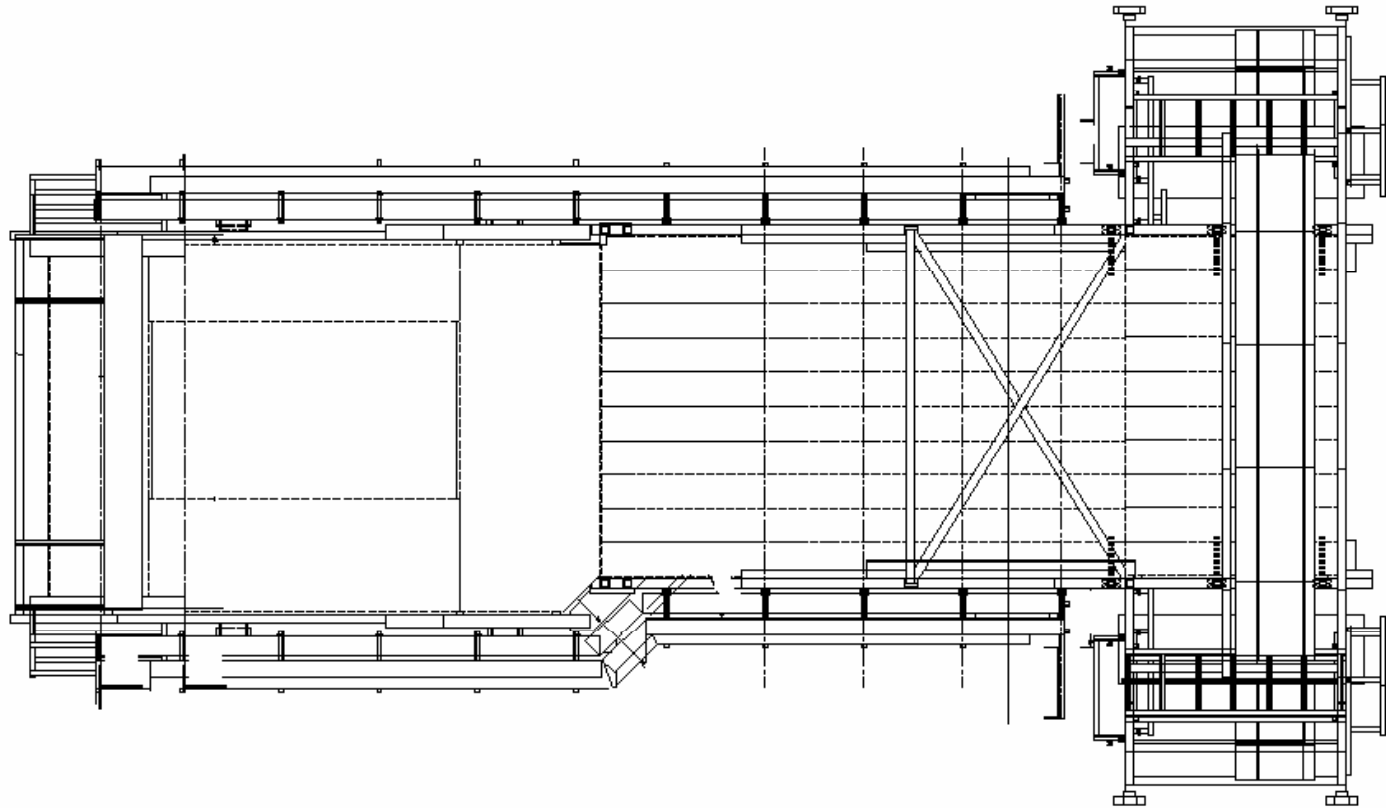


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Miniframe activities SX2 - Week 10 7/3 (Saturday)



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UX25 activities - Week 11 (9/3 – 14/3)

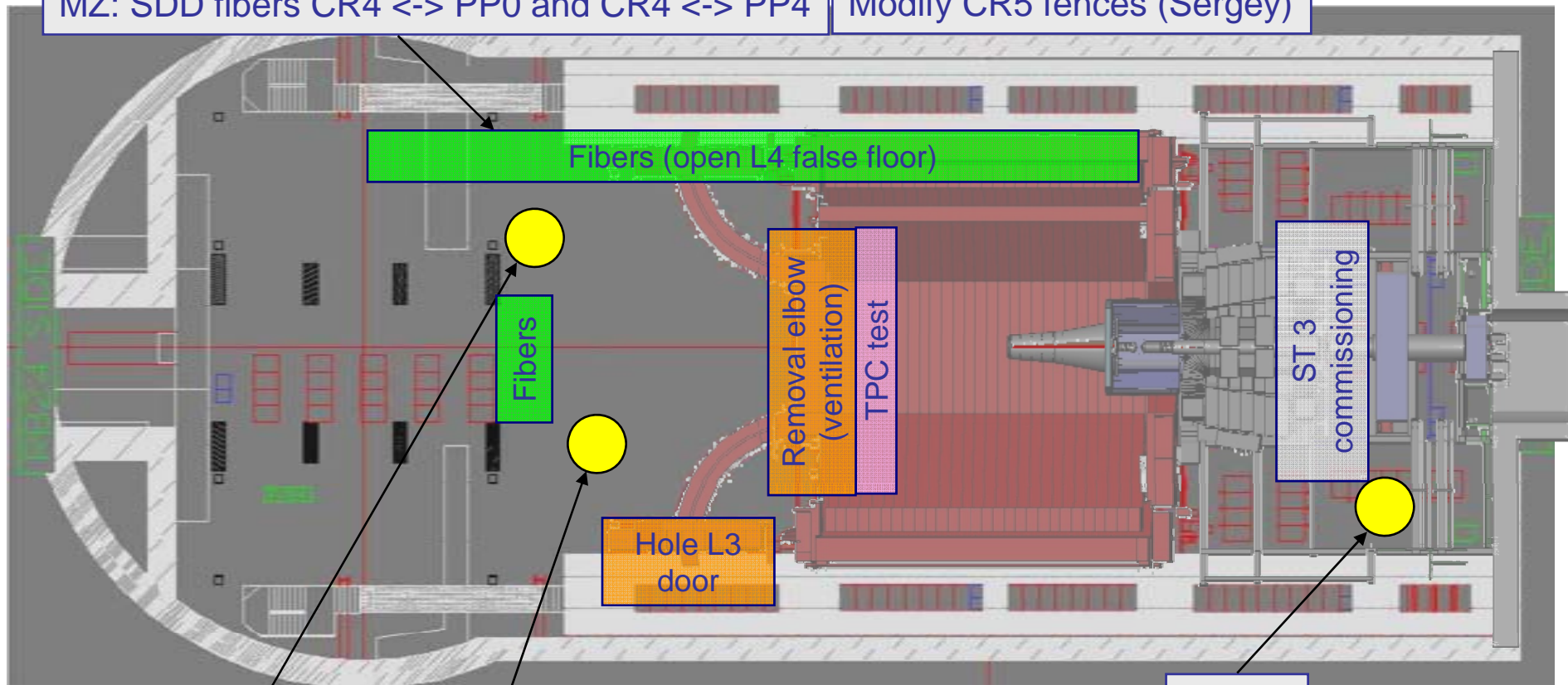
Detectors and services installation Week 11 9/3 Monday

PHOS: Ar leak test + insert into transportation frame (crane needed)

Survey UX25, Low Beta, UL24, US25 and UL26 (whole week). Open PX24 window needed

MZ: SDD fibers CR4 <-> PP0 and CR4 <-> PP4

Modify CR5 fences (Sergey)



HAULOTTE

LV167 (Philippe)

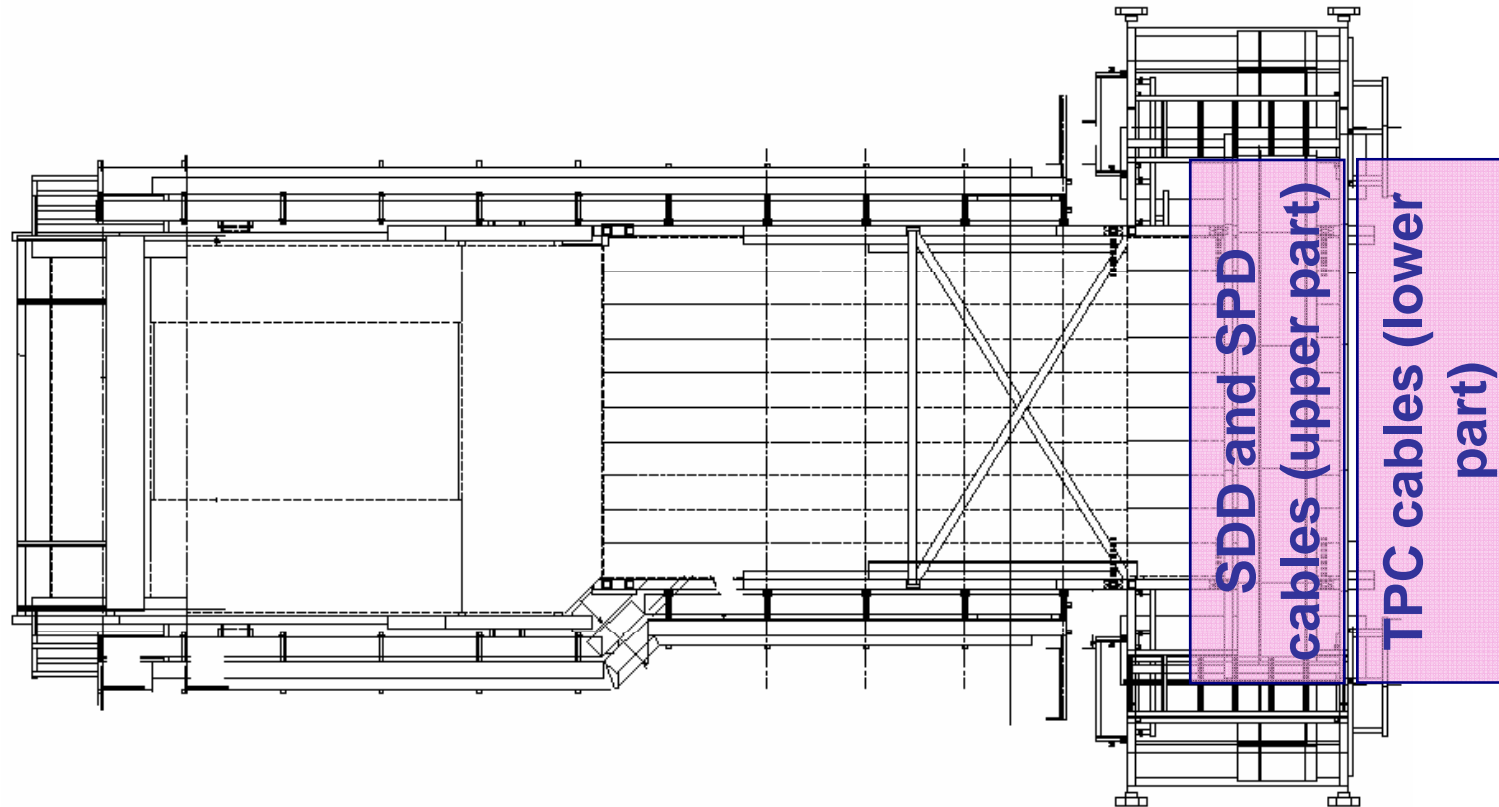
DT PH EN/MEF EN-CV Muon EN-EL

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Muon TRK: start stable configuration tests (GMS, HV, LV....) in view of cosmic run on week 13-14

Miniframe activities SX2 - Week 11 9/3 Monday



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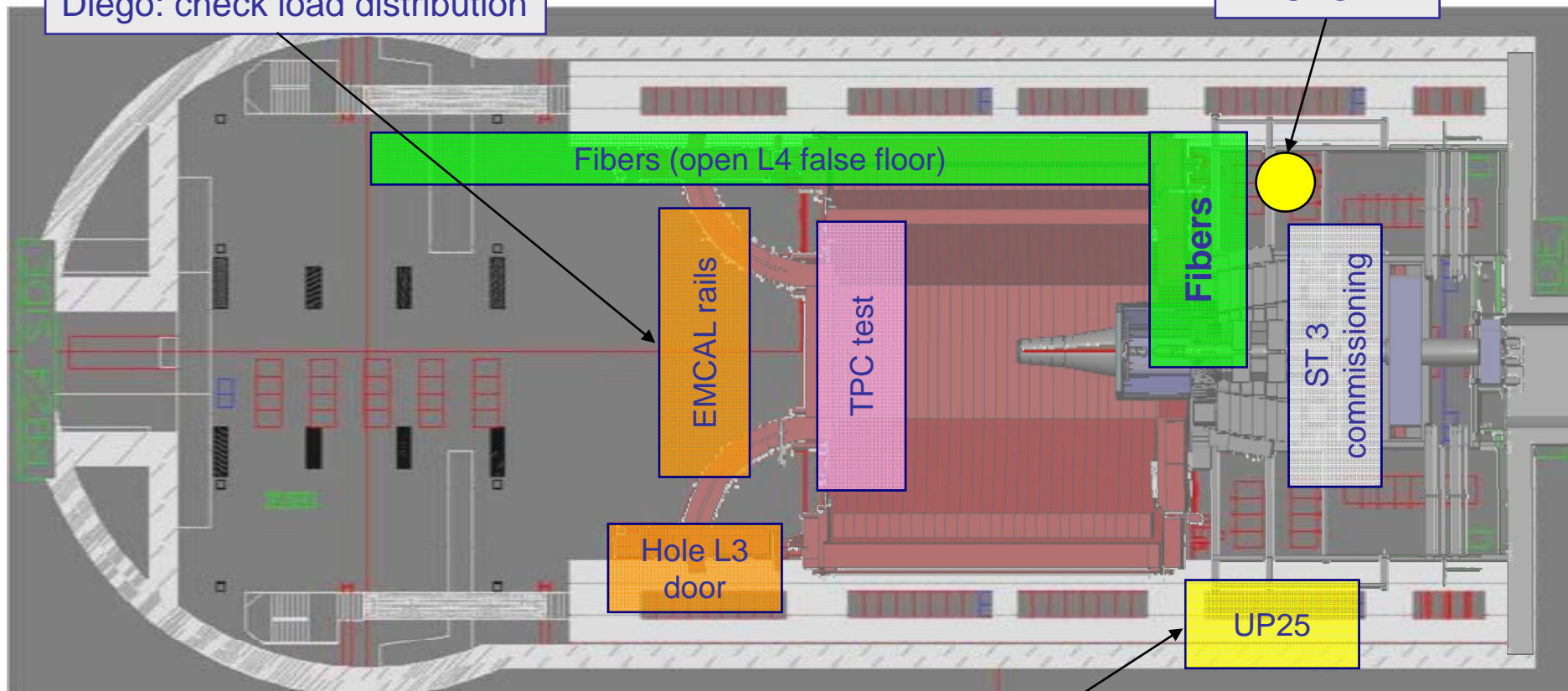
Detectors and services installation Week 11 10/3 Tuesday

SX2: transport EMCAL US module out from staging area. Move on the SX2 blocks

CR5: cleaning TPC gas pipes

Diego: check load distribution

HAULOTTE



No conflict with survey

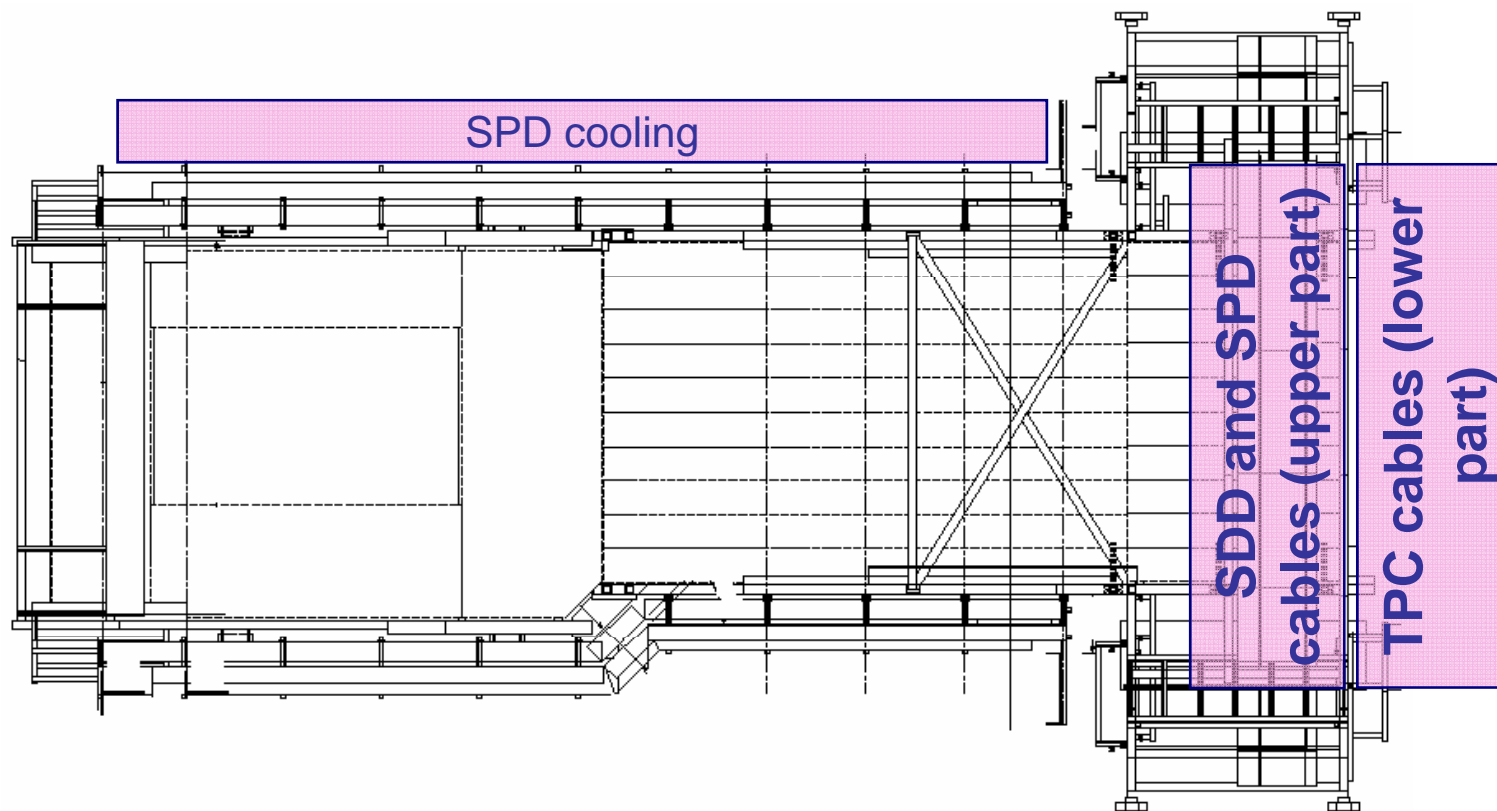


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Miniframe activities SX2 - Week 11 10/3 Tuesday



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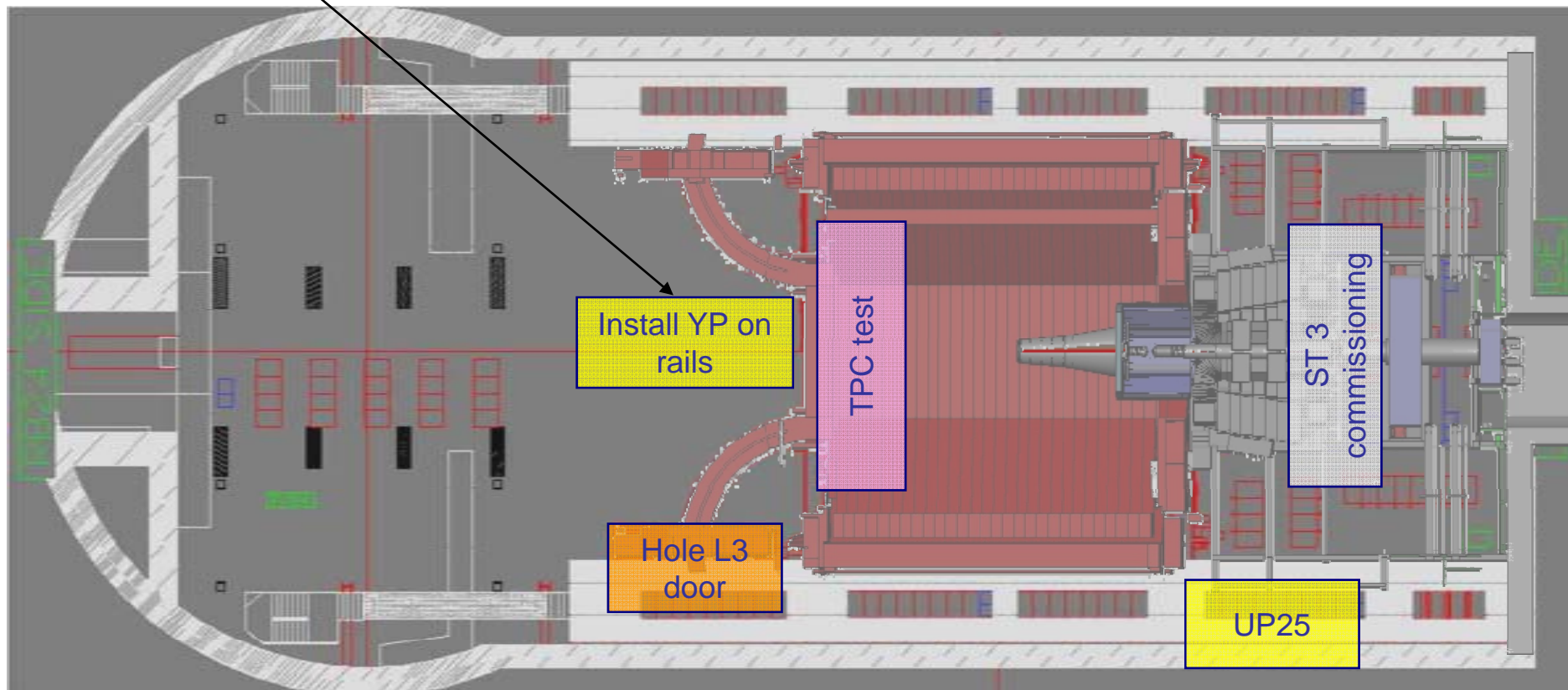
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Detectors and services installation Week 11 11/3 Wednesday

Arrival EMCAL EU module, unload to SX2

Check conflict with scaffoldings

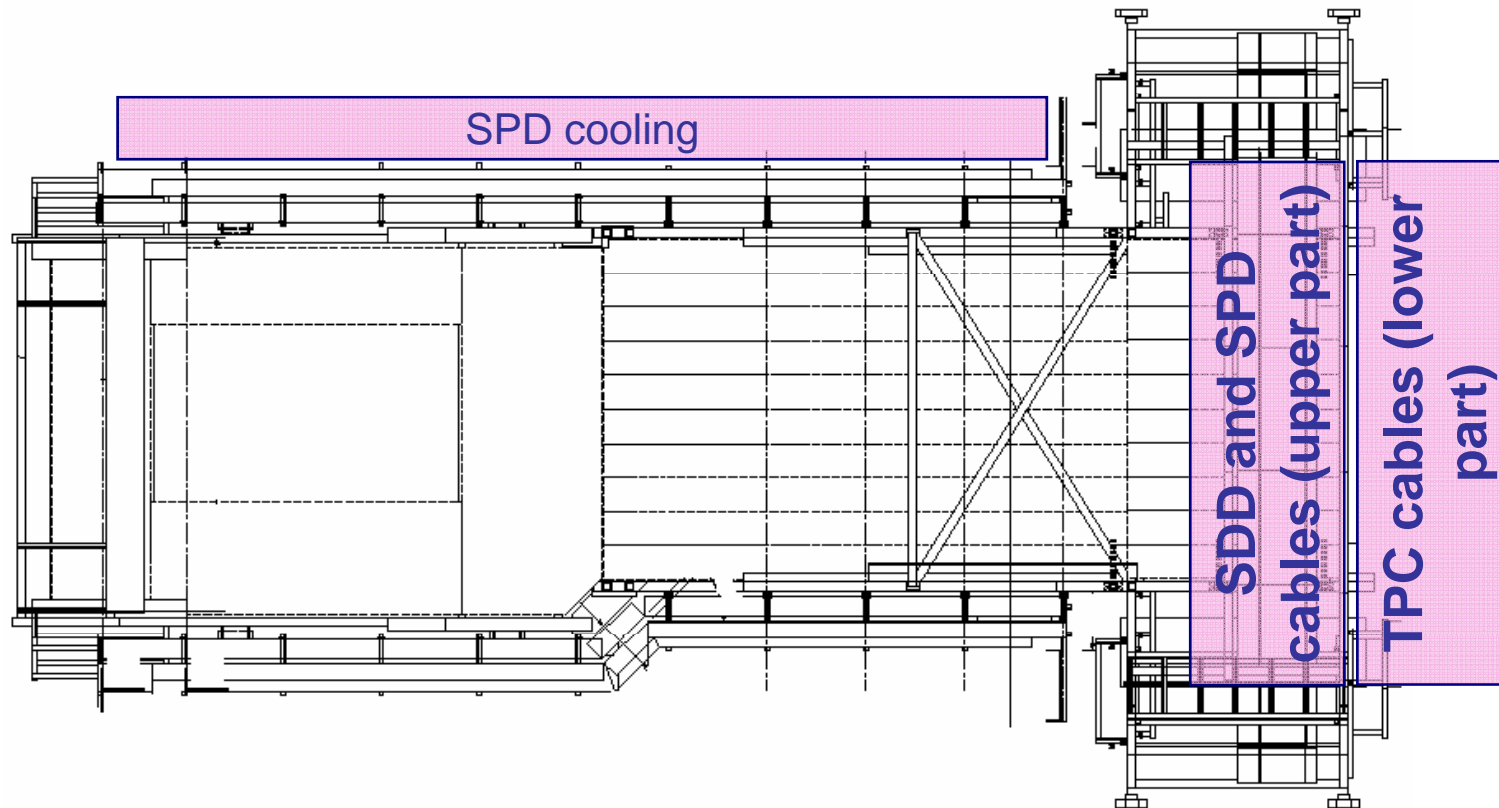


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Miniframe activities SX2 - Week 11 11/3 Wednesday



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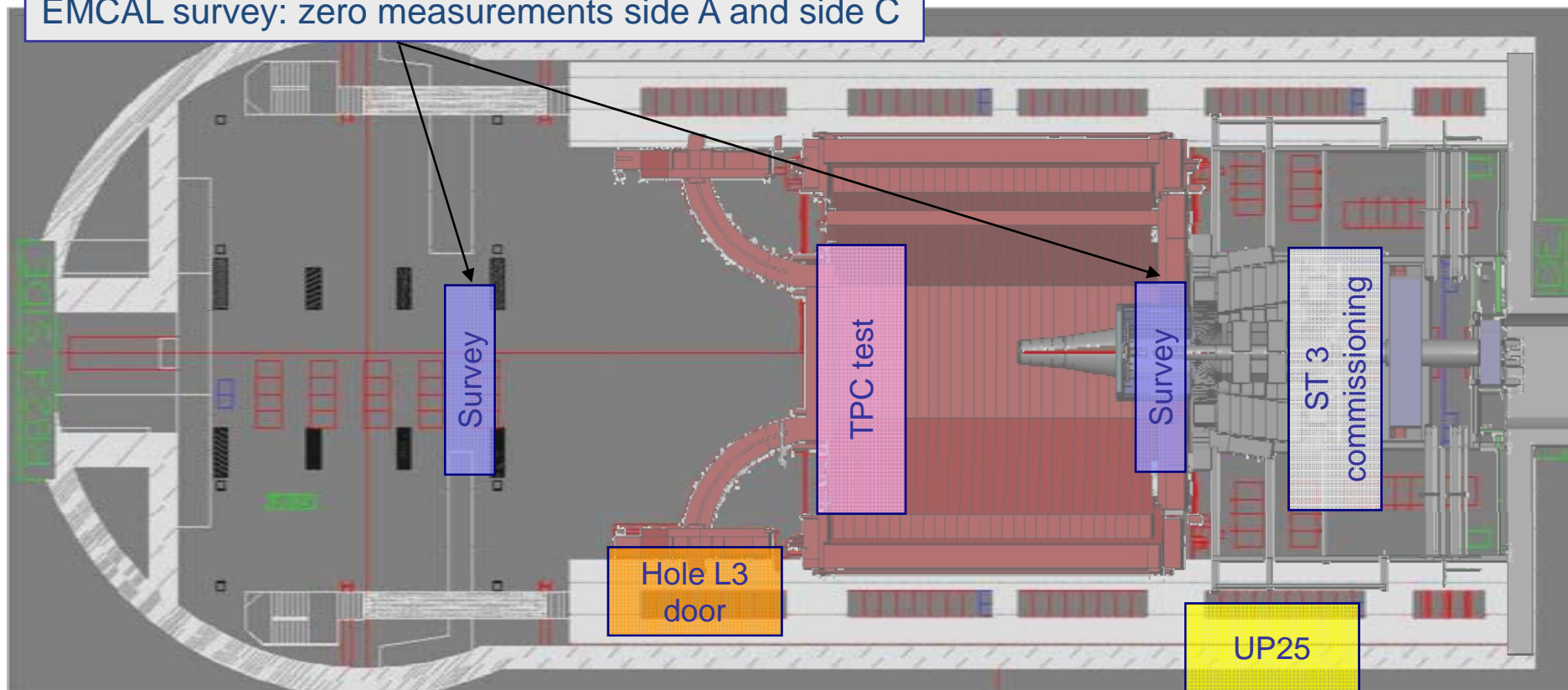
32

Detectors and services installation Week 11 12/3 Thursday

Visit 56 students (P.Kuijer)

Arrival TRD module. Unload in SX2 , insert into rotator and bring into SXL2 clean-room

EMCAL survey: zero measurements side A and side C

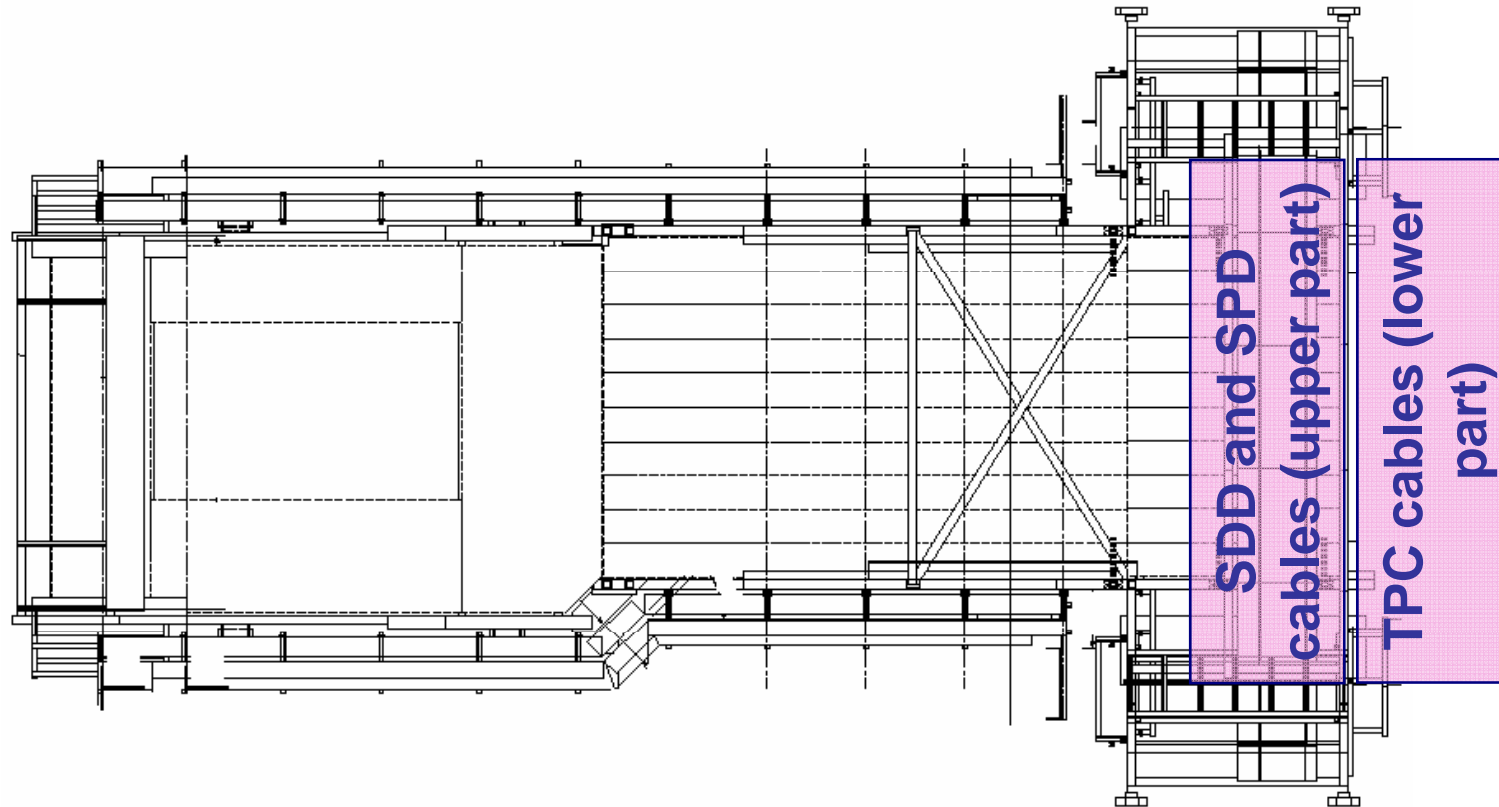


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Miniframe activities SX2 - Week 11 12/3 Thursday



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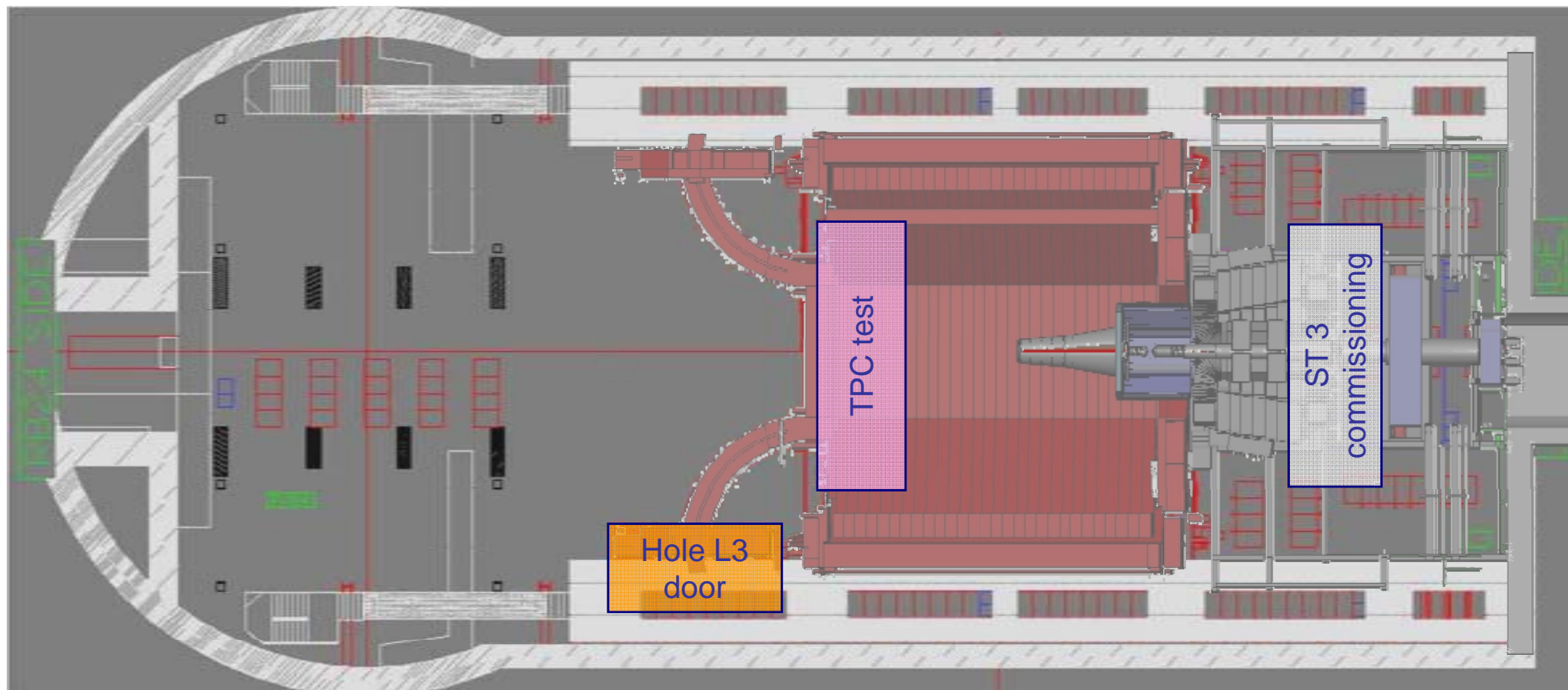
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Detectors and services installation Week 11 13/3 Friday

Many ALICE visits (WEB celebration 3x14 visitors, VIP,...)

- access to low-beta platform only if no heavy loads through PX24

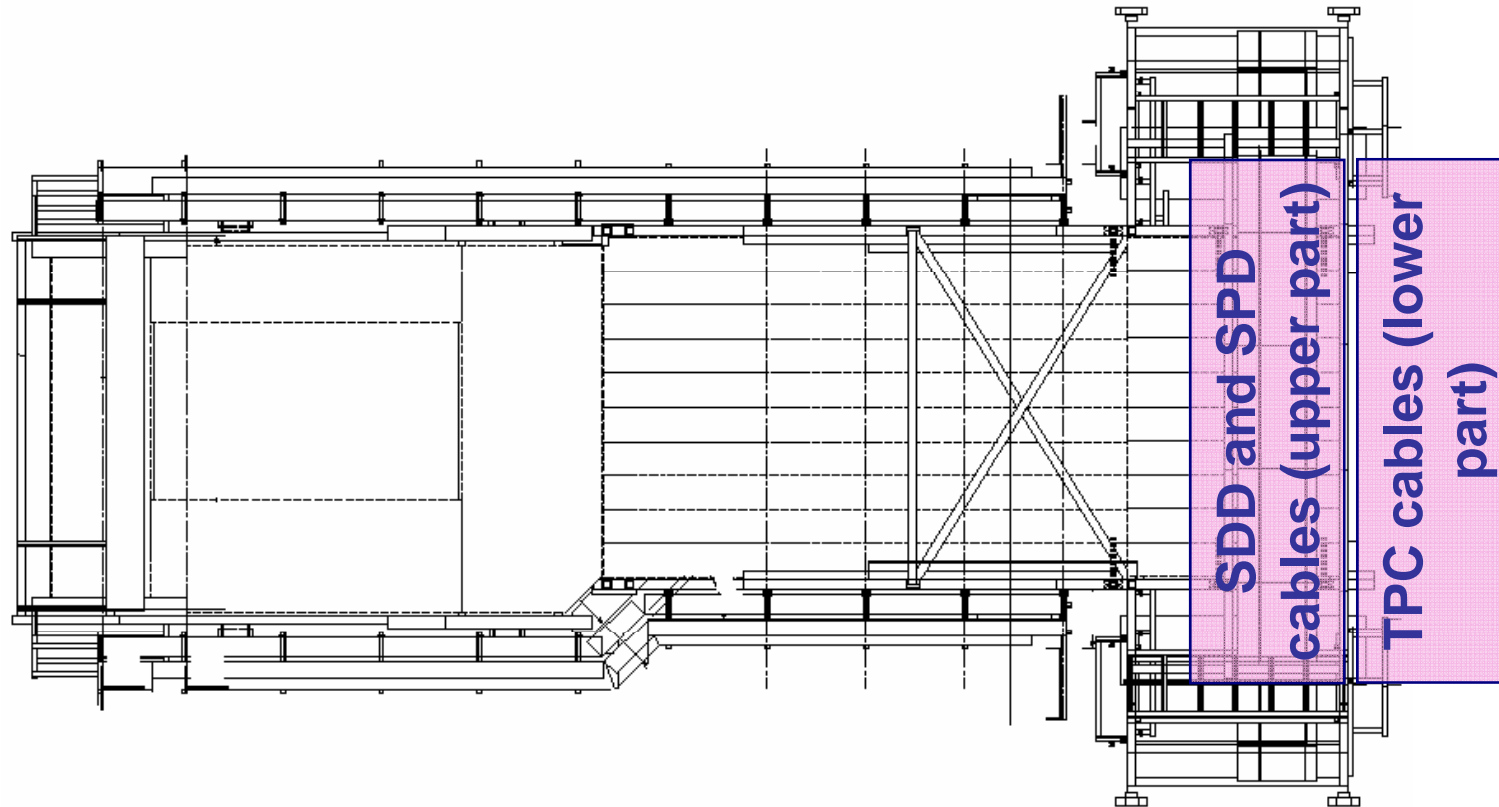


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Miniframe activities SX2 - Week 11 13/3 Friday

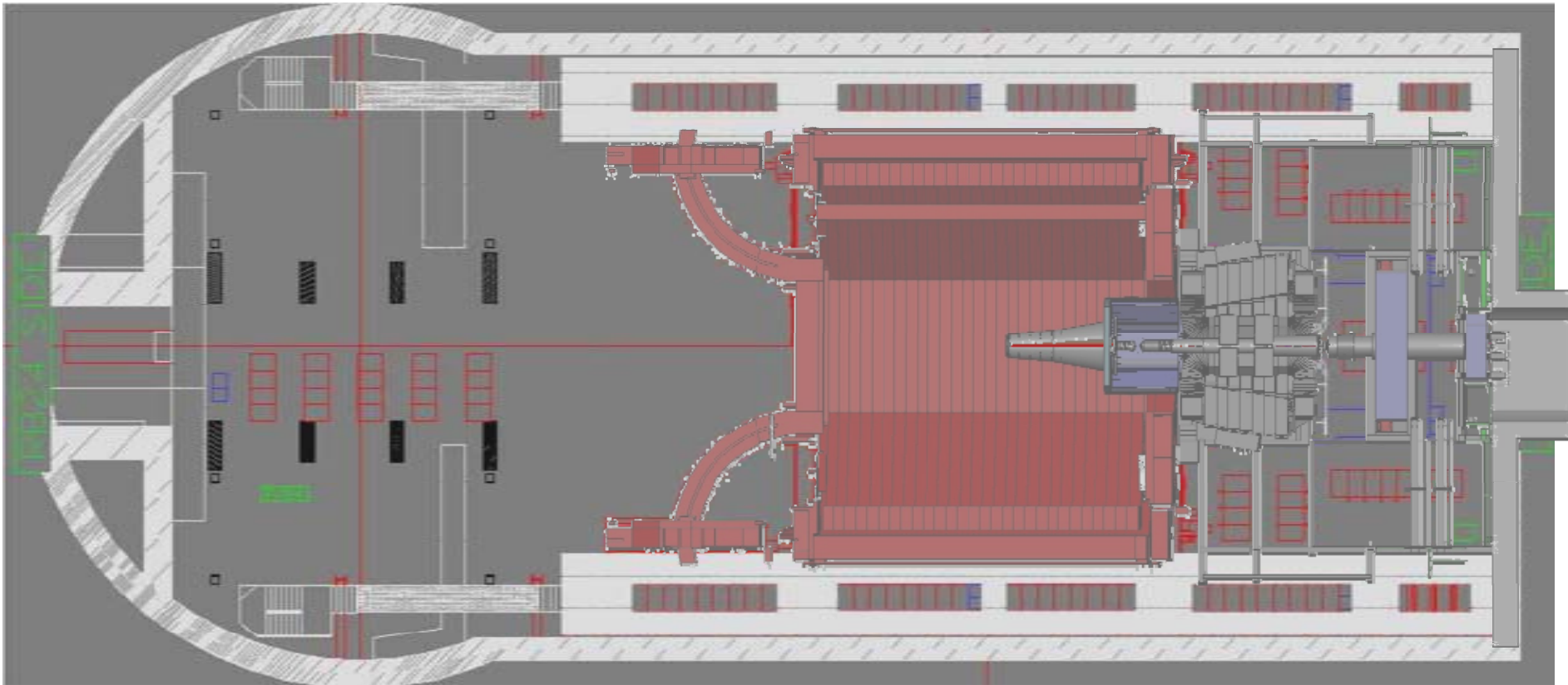


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Detectors and services installation Week 11 14/3 (Saturday)

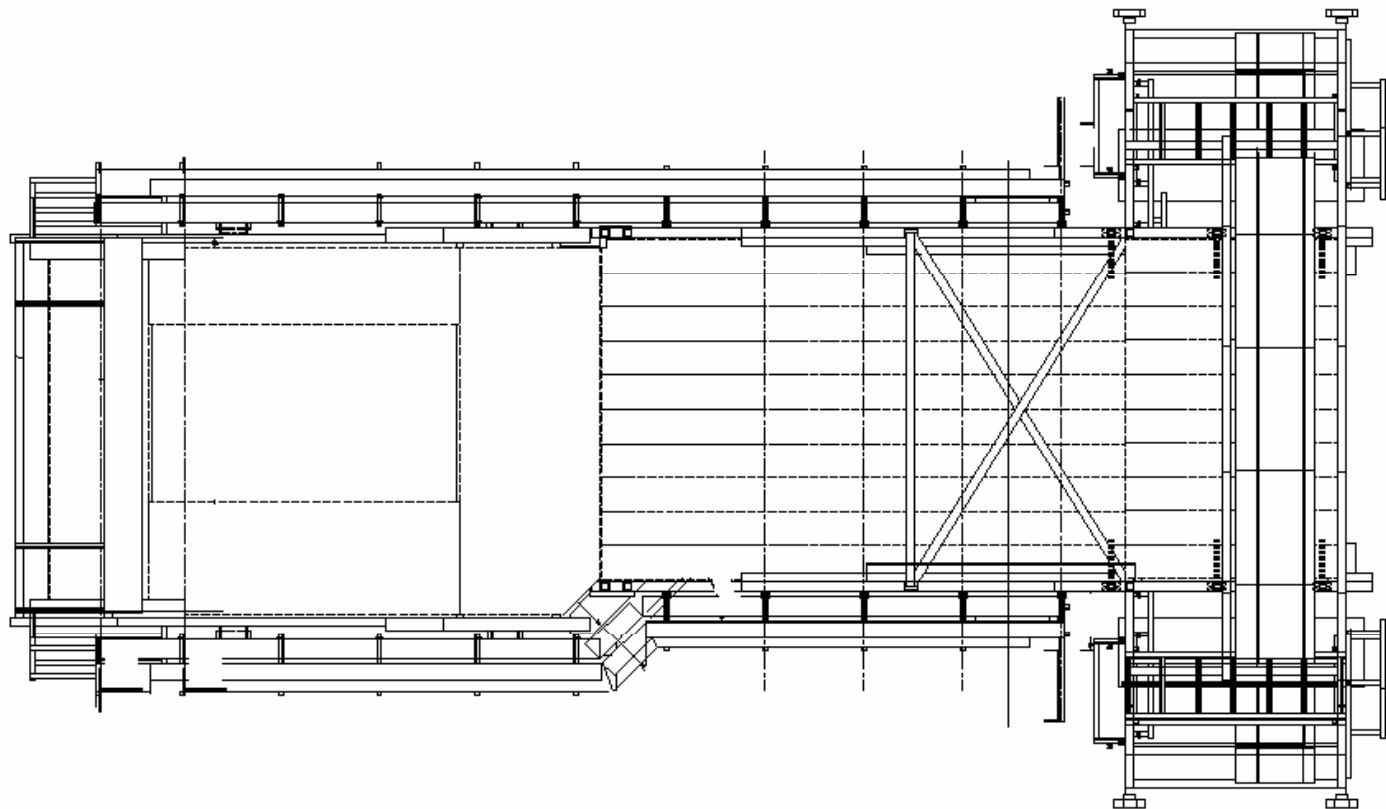


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Miniframe activities SX2 - Week 11 14/3 (Saturday)



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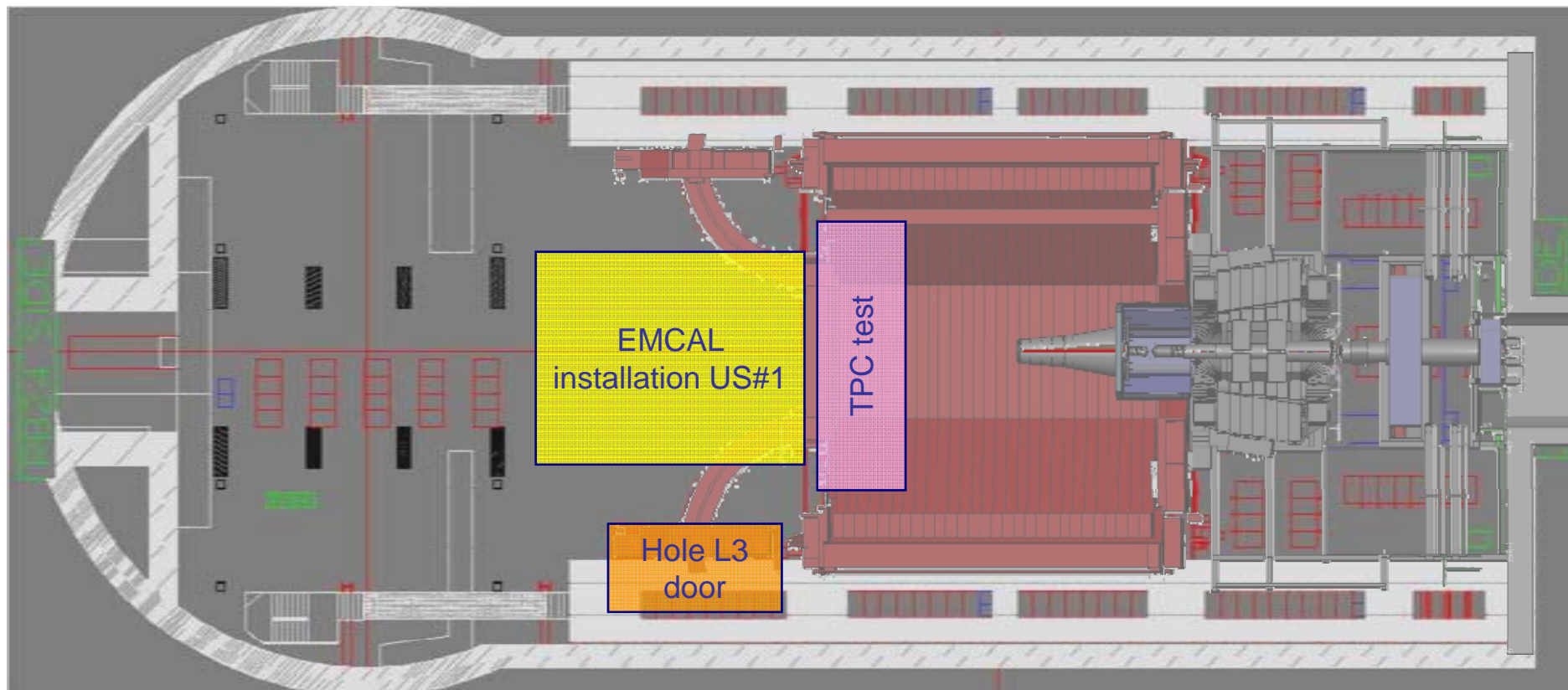
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UX25 activities - Week 12 (16/3 – 21/3)

Detectors and services installation Week 12 16/3 Monday

During EMCAL insertion:
Switch off TOF (a possibility), no TPC people

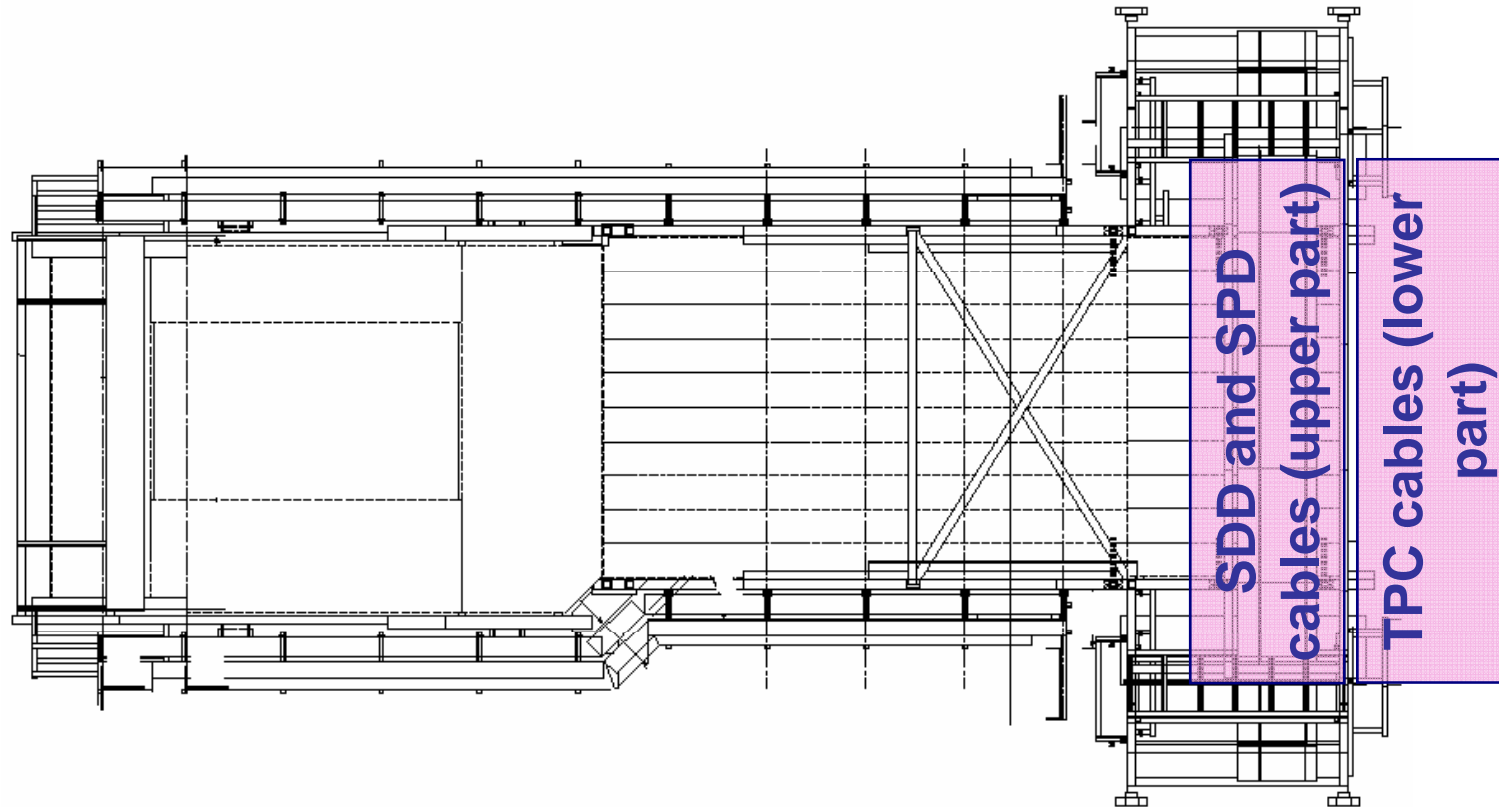


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Miniframe activities SX2 - Week 12 16/3 Monday

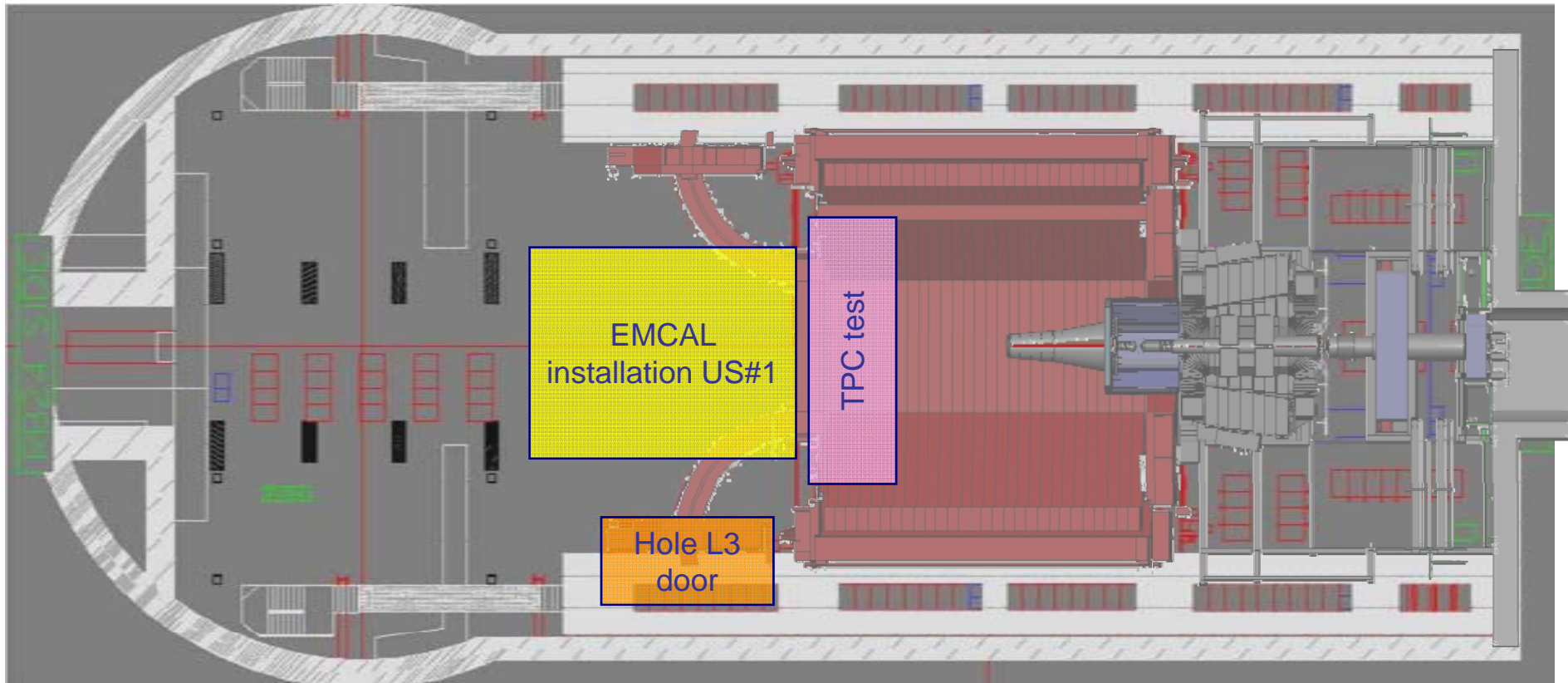


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Detectors and services installation Week 12 17/3 Tuesday

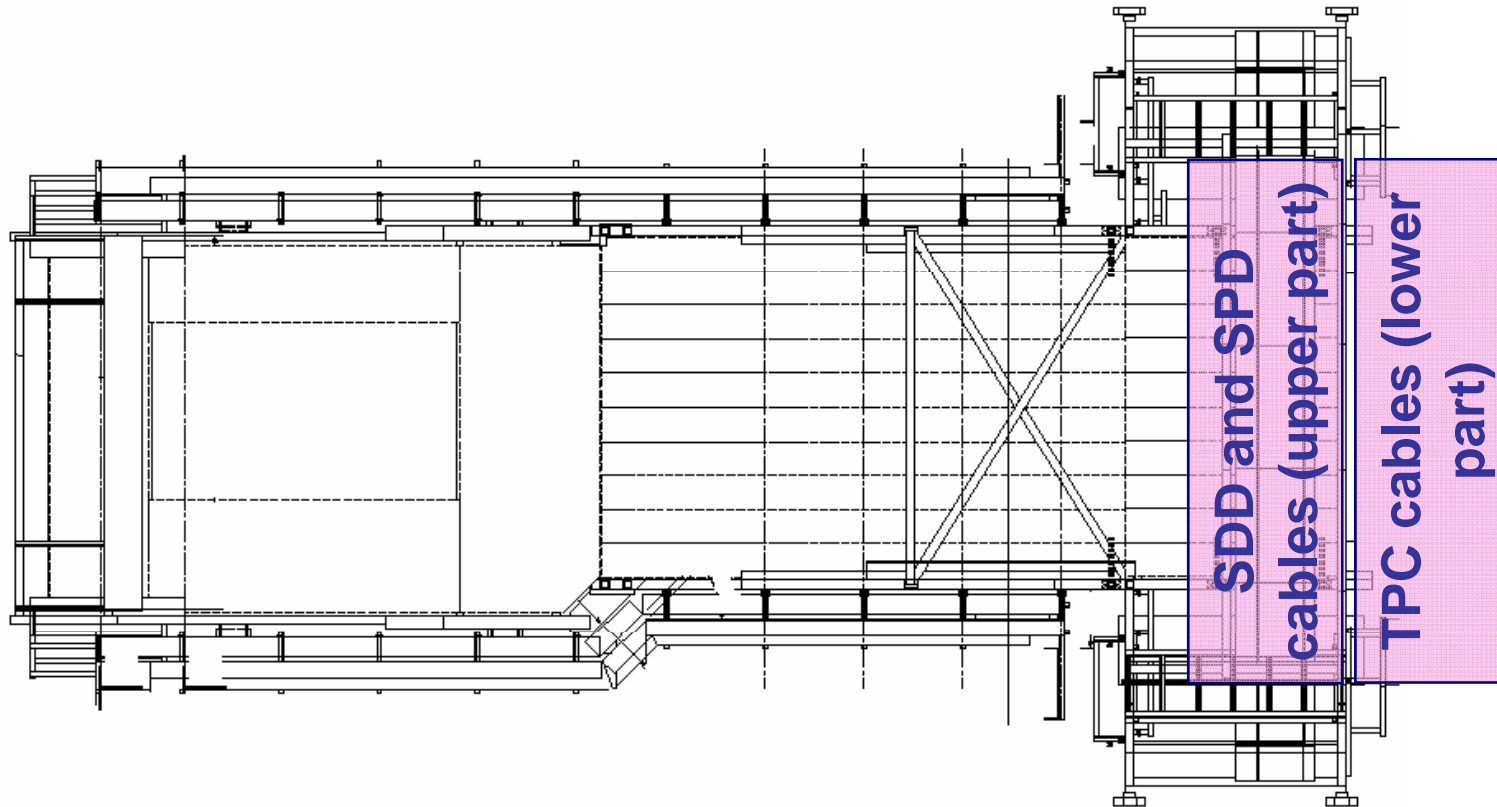


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Miniframe activities SX2 - Week 12 17/3 Tuesday



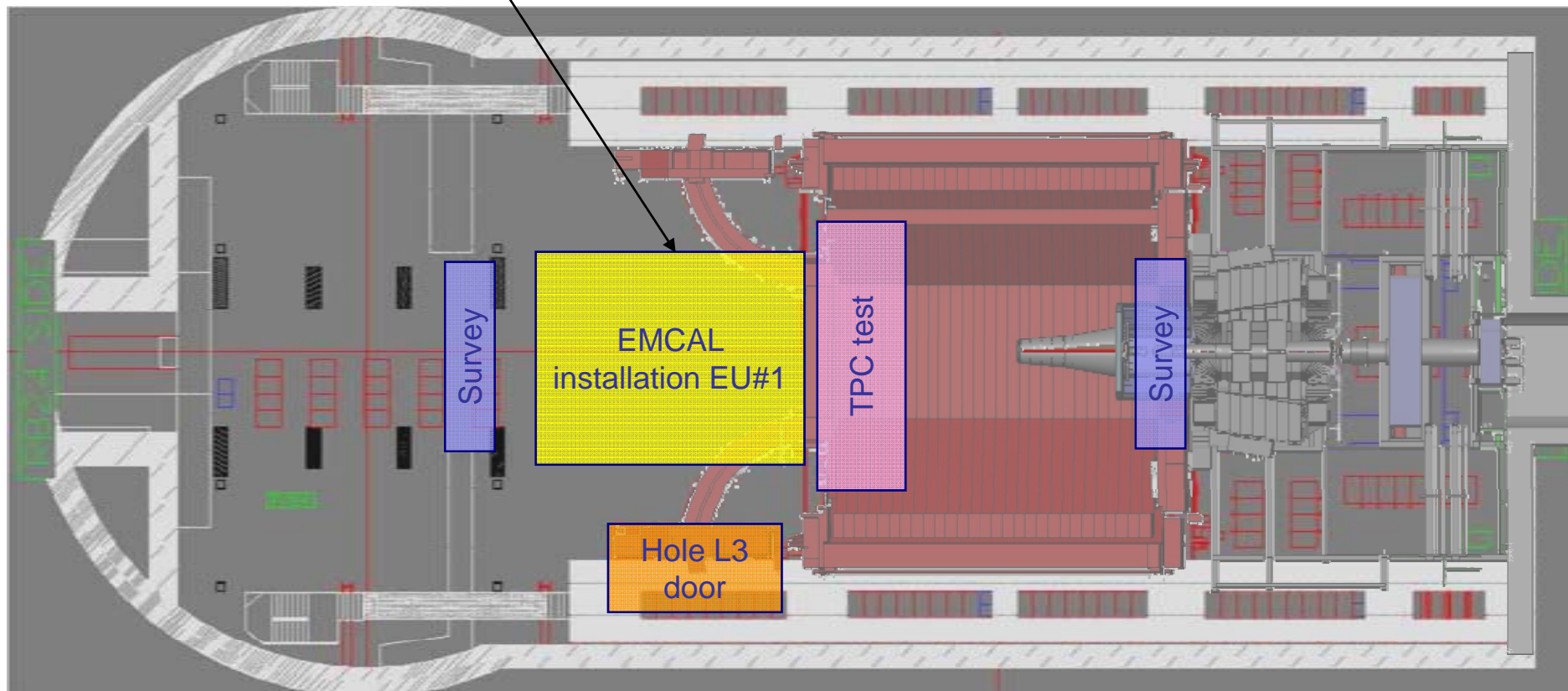
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Detectors and services installation Week 12 18/3 Wednesday

Must disconnect TPC temporary services



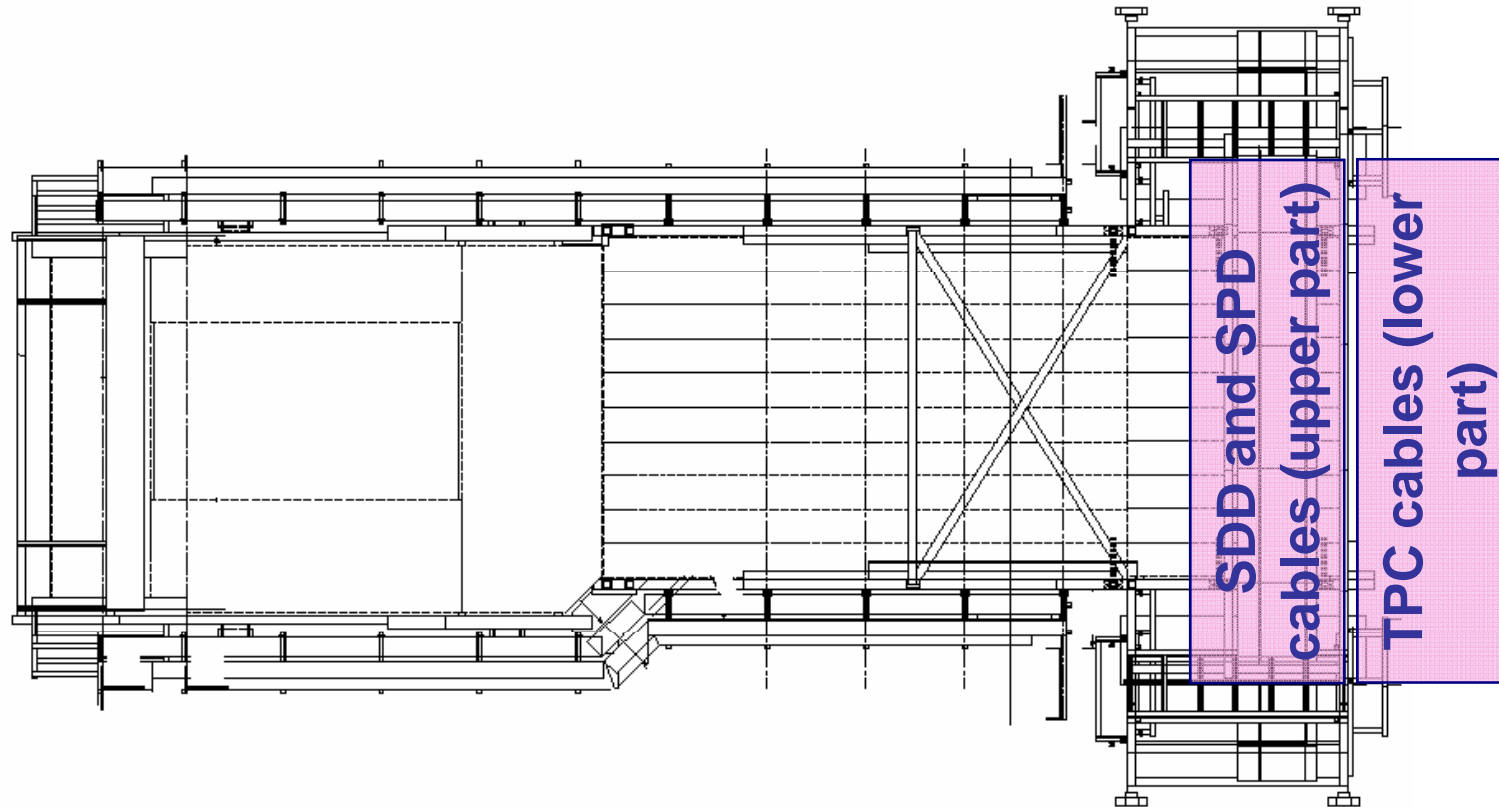
DT PH EN/MEF EN-CV Muon EN-EL

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Miniframe activities SX2 - Week 12 18/3 Wednesday



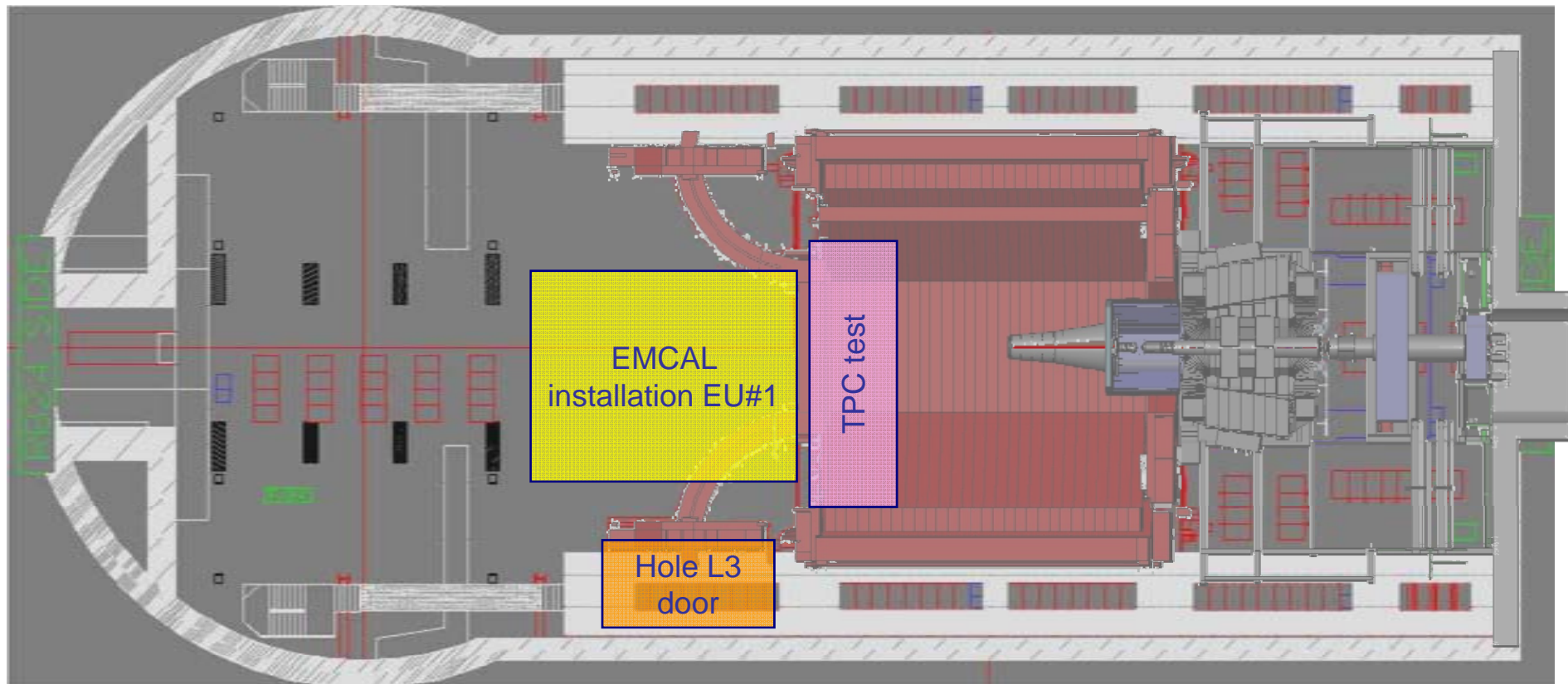
DT PH EN/MEF EN-CV Muon EN-EL

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Detectors and services installation Week 12 19/3 Thursday

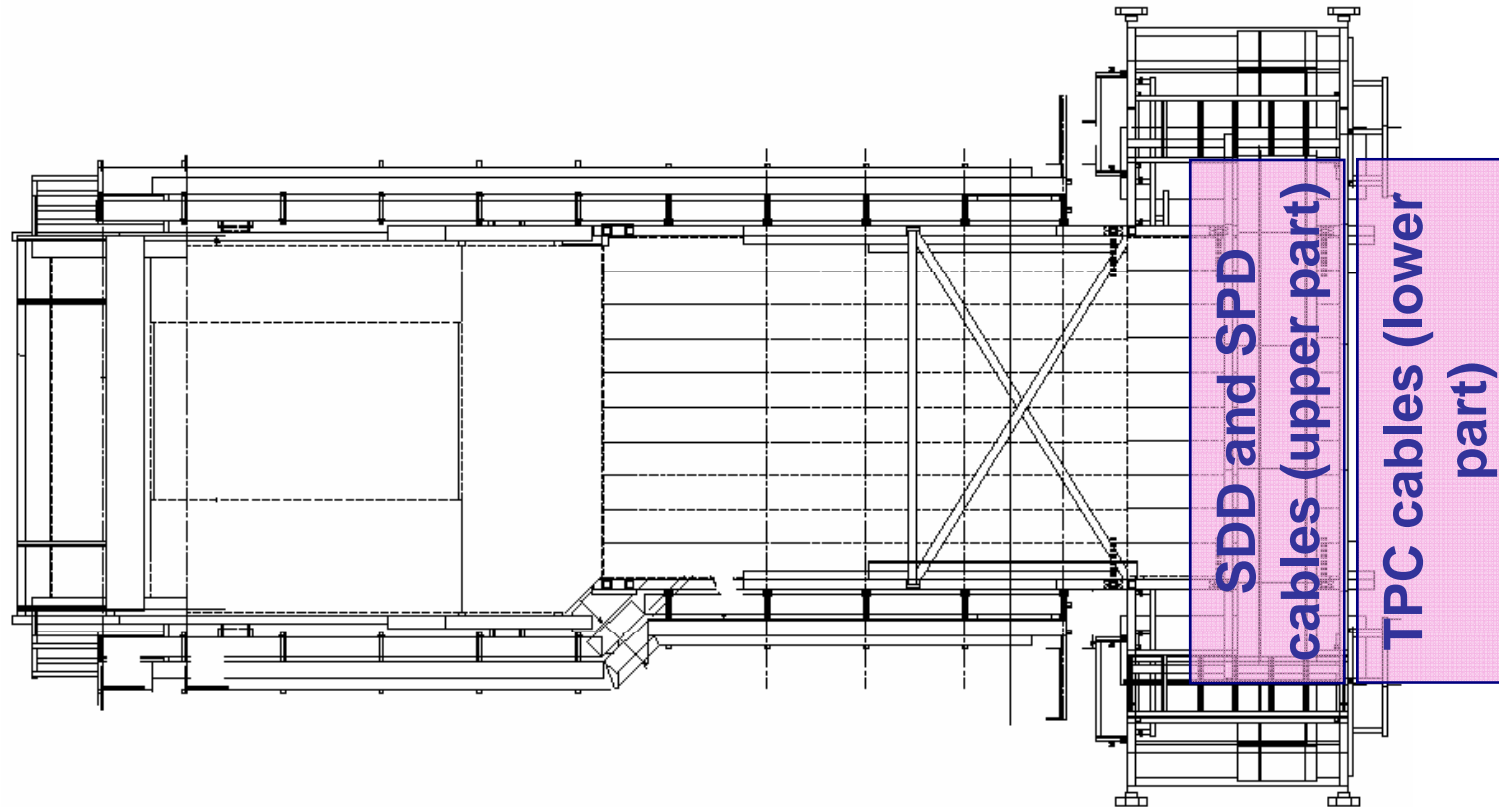


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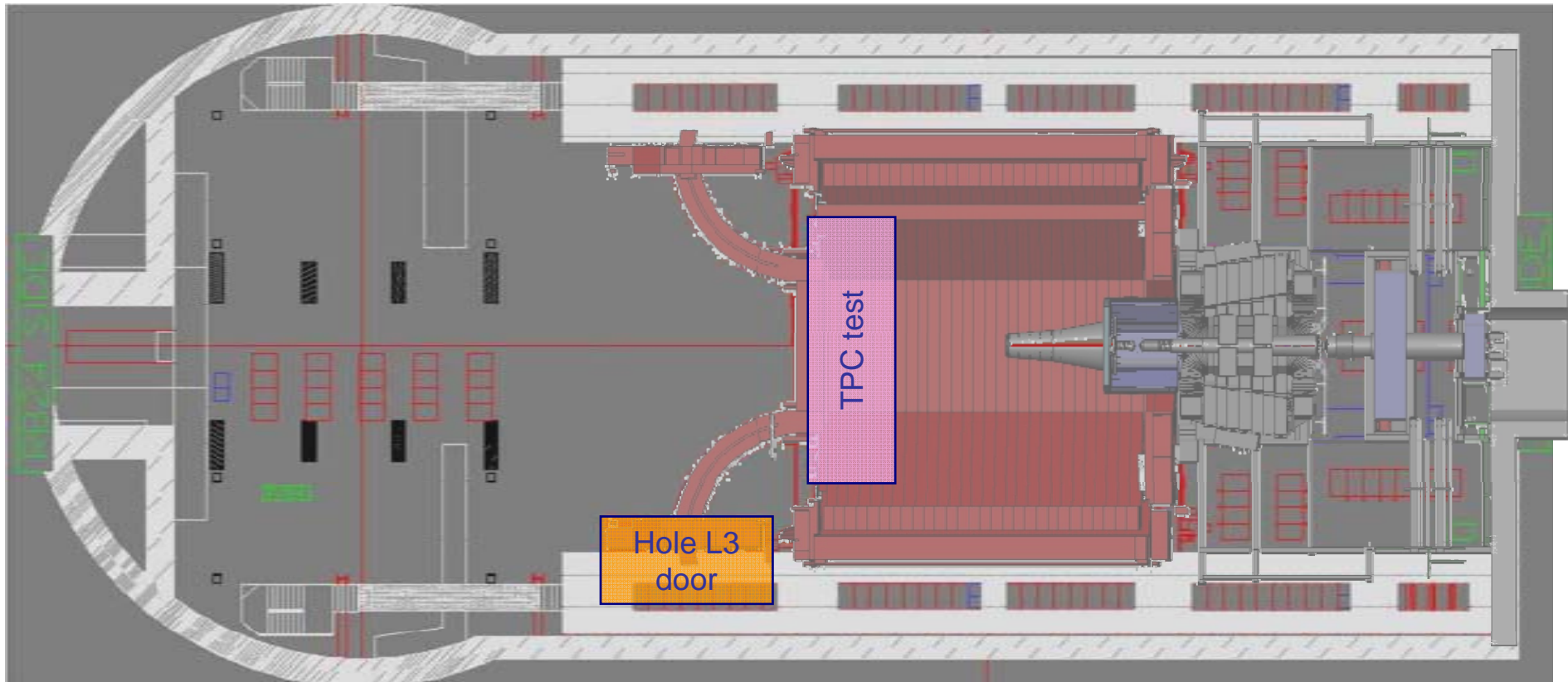
Miniframe activities SX2 - Week 12 19/3 Thursday



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Detectors and services installation Week 12 20/3 Friday

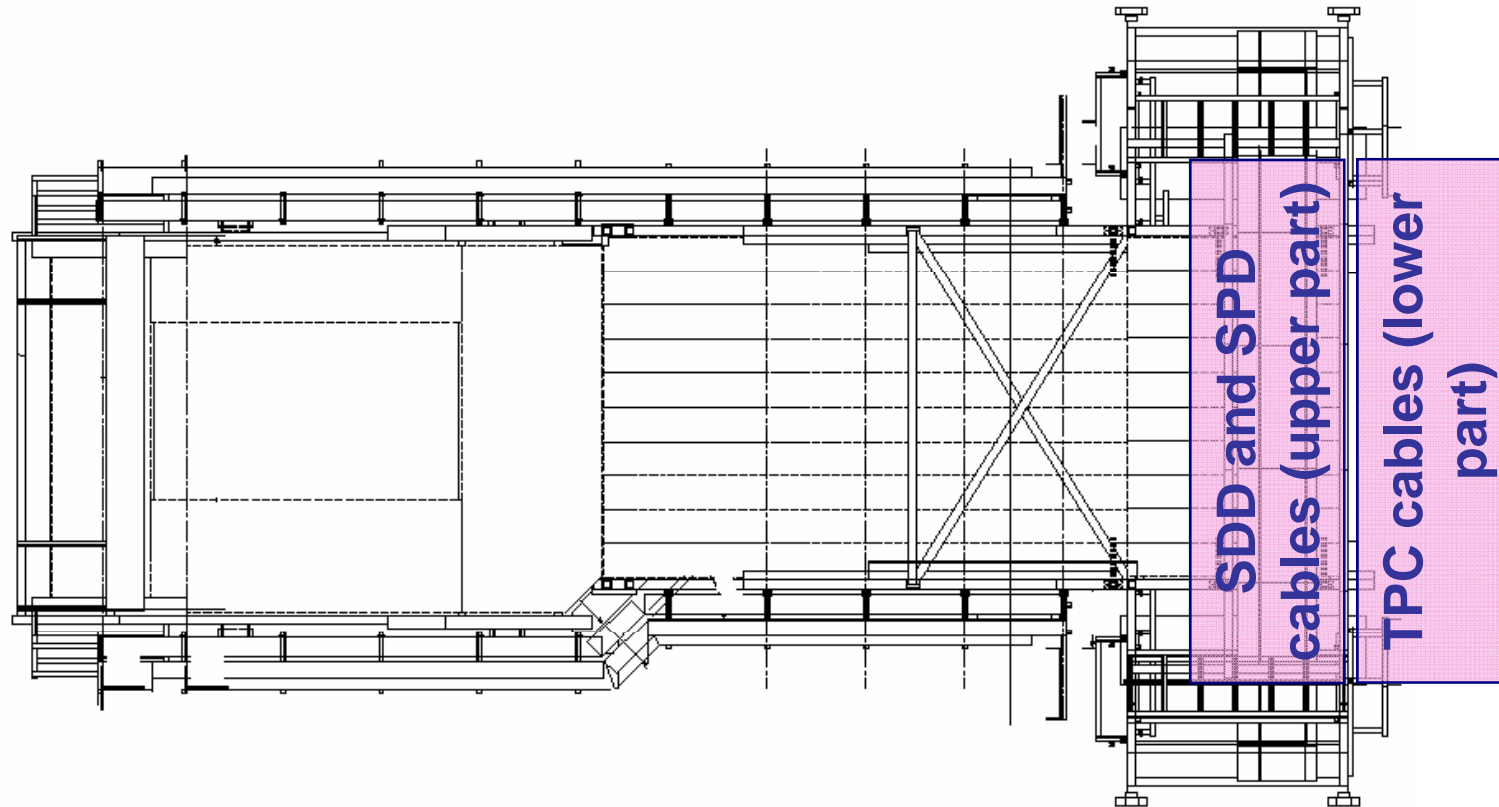


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Miniframe activities SX2 - Week 12 20/3 Friday

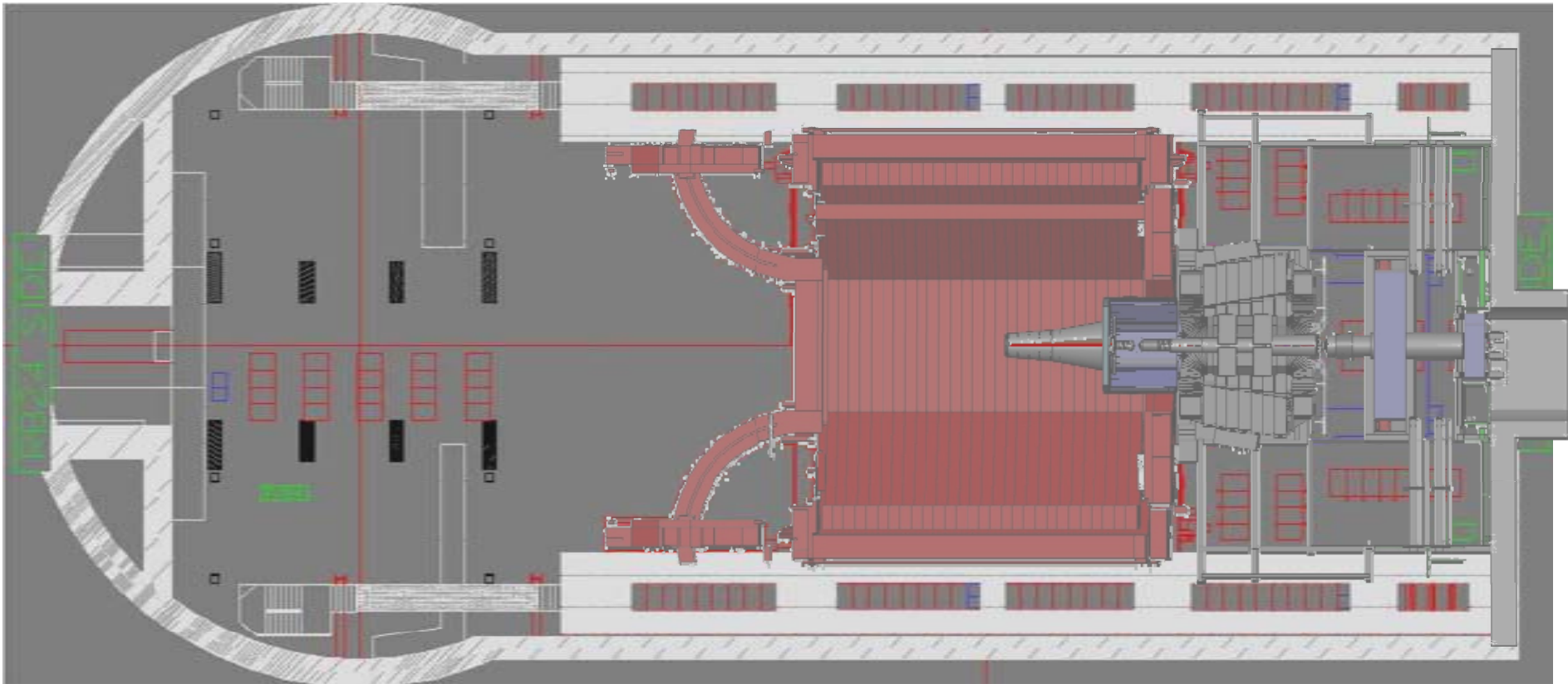


06/03/2009

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Detectors and services installation Week 12 21/3 (Saturday)

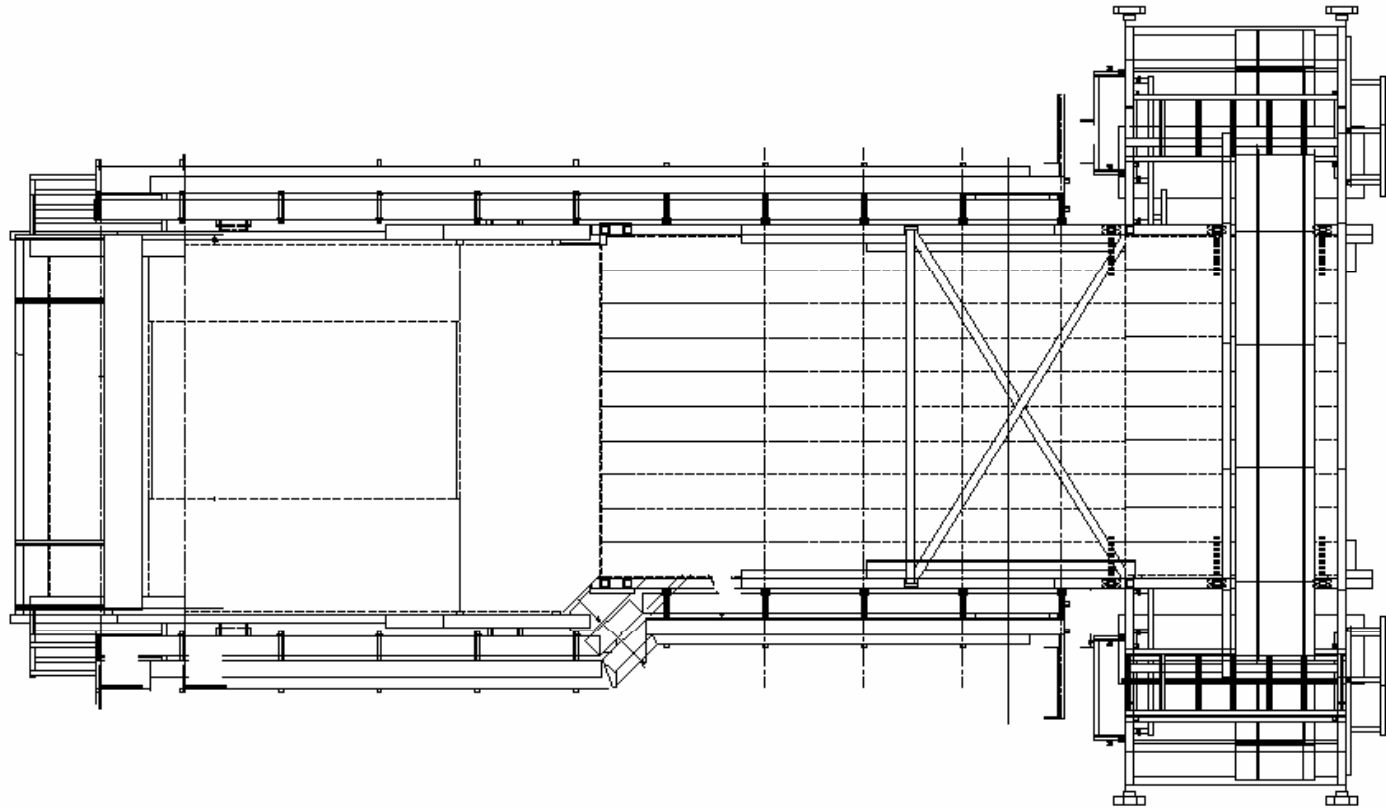


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Miniframe activities SX2 - Week 12 21/3 (Saturday)



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Perturbations

- **Maintenance flammable gas detection system (A.Di Mauro):**
 - Thu 5/3 (and perhaps Fri 6/3)
 - Stop ventilation extraction SG2, CR5 et UX25 as from Thu at 14h00
- **Important Disruptive Network Intervention on March 18th**
 - This maintenance will affect all services that depend on the CERN General Public Network (GPN), experiment and technical network will not be affected
 - Only 'first part' could maybe affect access to mail, dfs etc

ALICE visits

Date	Heure	Guides	Qui ?	VIP	Press	Prof.	Stud.	Private	Collab.
6-Mar-09	13h30	Terry Awes	candidates to be collaborators			3			
6-Mar-09	14h	Despina + Yiota	Patras Uni.				25		
6-Mar-09	17h	Claudio Bortolin	family					4	
7-Mar-09	samedi	Stefan Rosseger	?					4	
10-Mar-09		Ken Oyama	Yamagata University			5			
11-Mar-09	9h	Despina ?	Frascati high school			2	8		
12-Mar-09		Paul Kuijer	Dutch school				56		
13-Mar-09	9h15		WEB celebration			12			
13-Mar-09	9h45	Karel	Slovak rector Uni.	1					
13-Mar-09	10h30		WEB celebration			12			
13-Mar-09	11h45		WEB celebration			12			
19-Mar-09		Fons Rademackers	photographer		4				
20-Mar-09	9h30	Ulla						2	
20-Mar-09	10h30	Yves Schutz	?			24			
20-Mar-09	pm	Andre Mischke	friends			2		1	
24-Mar-09		D. De Gruttola	Salerno students				35		
27-Mar-09	pm	Antonin Maire	family					4	
31-Mar-09		Ph. Rosnet	classe de lycée			5	35		
1-Apr-09		Michael Kobel	Dresden students				50		
march/april		Corrado Cicalo	students				18		
17-Apr-09		Ombretta Pinazza	parents					2	
29-Apr-09		J-Y. Grossiord	lycéens				17		
2009			Total :	11	4	136	617	34	20
			Grand Total =	822					

Visits rules on ALICE Collaboration pages (<http://aliceinfo.cern.ch/Collaboration/>)
 Visits list: \\CERNHOMET.cern.ch\tavlet\Public\visits\Visits_Pt-2.xls

AOB

- RBs shieldings (S.Evrard)
 - New (cast iron) blocks are expected to be delivered at CERN in early June (price enquiry sent out on Wed.4th)
 - SA2 (iron) blocks refurbished starting from Tue 10th March (2 weeks). Resp. Michael Lazzaroni (EN-MEF), contractor: Prezioso. Crane drivers needed (rotate blocks)
 - Installation slots: RB24 up to week 18 (deadline = 30.04.09), RB26 up to week 14 (deadline = 03.04.09)
- PR702 crane (SXL2) reparation (remote control)
 - 3 weeks
- Maintenance RAMSES detectors at P2
 - 30th and 31st March. No implication for ALICE
- Cooling water problem UX, Thu.5th March
 - Problem on the mixed-water, system running manual as from Thu at 13h00
 - As from this morning (Fri 6th March) around 10h30 the mixed water is back to nominal again, and temperature is stable at 14 degrees (as it always was). The fault was traced to a bad unit in the regulation PLC
- Replacement electrical outlets UX started. Made request for new ones

AOB (ctd)

- 4 racks to be installed in CR1 (DAQ)
 - Wait to know whether ventilation unit will be sorted out from CR. Meeting Tue 10/3
- CR3 drawbridge has still to be repaired
- TOF / BSF situation:
 - Meeting Thu 26
- Corrective interventions bld.3294:
 - Projection, video conferencing system and cables still not completed (promised by end February)
 - External work (SCRASA) completion on Mon.9th March
 - 11th and 12th March: (JIPE) change the remaining two doors and install a false ceiling in the technical room
- TOF cabling inside L3 must be reorganized (TRD access)
 - Wk 13