

What we have to tackle before validation (to freeze new reference version) of UR15 /55 integration

Follow up the news!



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Integration meeting #187 12/11/2021

Reference catia / smarteam

<u>Why:</u>

We want to freeze a new version of our 3D integration and then update the reference document « Underground integration list » (EDMS 1577001v4 15/09/2020).

Situation today:

UR15_1102_INTEGRATION : ST1120748_01 a.05 25/16/2021(in work)
 10/11/2021(in work)

UR55_1503_INTEGRATION : ST1120275_01 a.02 20/10/2021(in work)

02/11/2021(in work)



WP17.3 (CV)

 update (3D model) according to the new cryogenic configuration (2 QXL)-> adjustment position of the ducts..; removing unnecessary piping.

In progress

 Verification position of the AHU according to maintenance condition, and position of the piping (AHU problem in the ULX3 junction for the moment not in the right place), correction AHU position in the UR15 (see UR55).

In progress

Verification interfaces with WP6B; and identification of potential impact on integration.

To do

Verification position firefighter STORZ.

In progress

Update position according to the actual section of the tunnel ("as built" of the tunnel)

In progress



WP17.2 (EL)

update (3D model) according to the new cryogenic configuration (2 QXL)-> adjustment position of cable trays..

Verification position of transformers, electrical panels, UPS ...

(DFH—CDB—PC cabling) Update and verification of interfaces with WP6B and integration impact studies. (definition of all support system)

Update position according to the actual section of the tunnel ("as built" of the tunnel)

Evaluation of the filling of cable ladders (especially on the transport side) to define the cable ladder width.

integration of AUG safety equipment + emergency lighting + others? UR; AU; UL; US

Integration principle of lighting (reservation of space); (define according to the installation phasing)

In progress

To do

To do

In progress

To do

To do

To do



WP15.4 (survey)

Verification of rack implementation (GYPOS...)

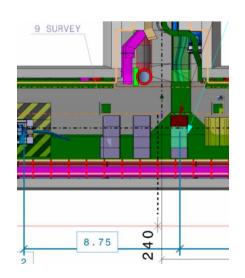
Naming

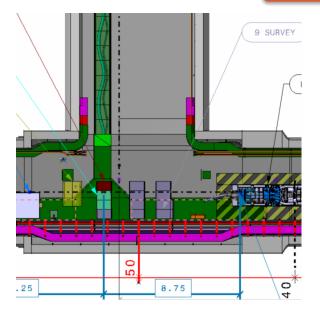
 proposal position of reference nails (WP15) on the ground for installation marker and placement of equipment (racks, others...) done

In progress

→

In progress

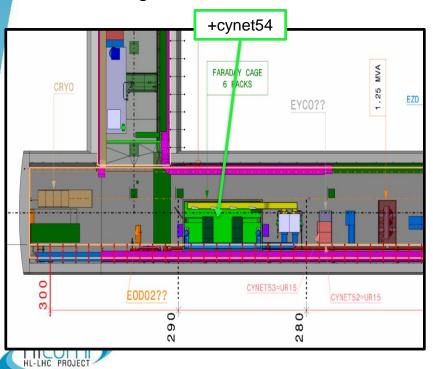






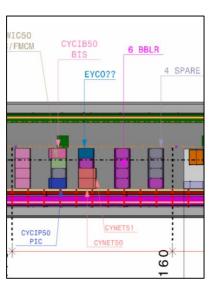
WP17.5 (tec. monitoring)

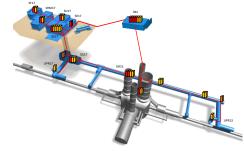
- Rack Implementation Verification (CYNET)
- Naming

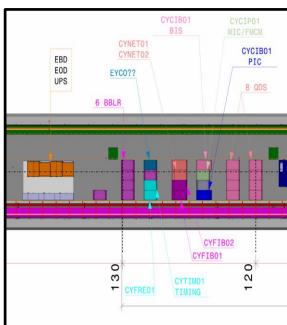




done





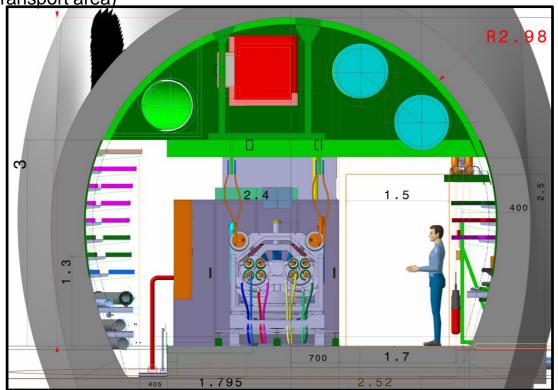


WP17.7 (transport)

Transport area verification

done

(No change of transport area)





WP6b (warm powering)

Verification integration of power converters according to latest version, DFHX and DFHM cluster, (Minor adjustment always possible); example: pc 18ka possibility of displacement for identical length of cables (left / right side).

We have Meeting next week to treat

In progress

Check interfaces with CV(wp17.3), and integration impact study.

To do

wp6b/wp15/be/wp6a: structure support bus-bar et cdb situation, impact, (nouveauté /sm18).

In progress

Naming.

In progress

Vérification « spare racks » et utilisation.



WP6a (cold powering)

- Intégration DFHX et DFHM,
 - sc link (last DSHM still missing).
- we are waiting the protections (covers) for the part of SCLink when this enter or exit the trench.

- wp6b/wp15/be/wp6a : structure support bus-bar; and cdb situation ,(nouveauté /sm18).
- Naming
- Possible Next steps : wp6a/wp15 plan d implantation DFH

done

In progress

To do

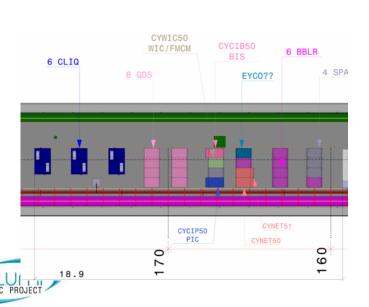
To do

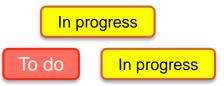
In progress

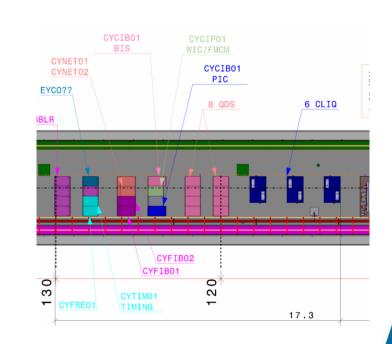


WP7 (Machine protection)

- Rack Implementation Verification
- naming







WP9 (cryogenie)

Implementation new configuration (modèle 3D :space réservation).

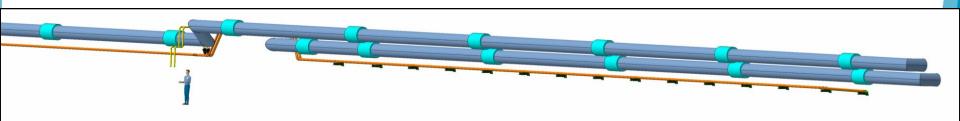
done

racks (fip): check the request and proposal for location for validation.

In progress

SLIDE₁₆

Naming racks





WP18 (control.)

Rack Implementation Verification (CYFRE; CYTIM; CYRST)

In progress

Naming

To do

In progress



WP15 (integration team)

 ULX7 Evaluation of the use of the available space and proposal for implementation (potential space for spare EPC rack for example) .

To do

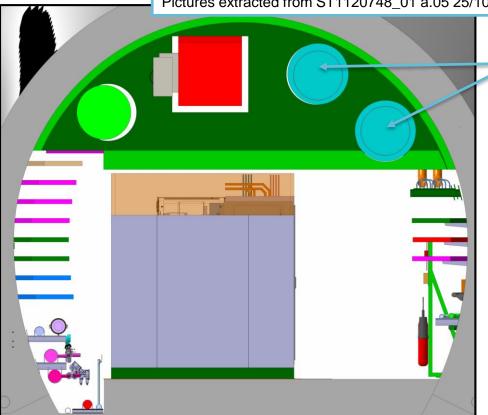
 Follow up last modification, update integration and Preparation for validation before Christmas In progress

Correction documentation EDMS

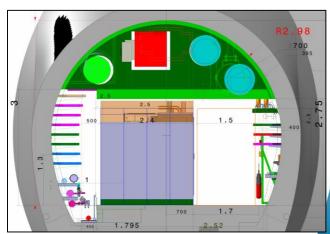


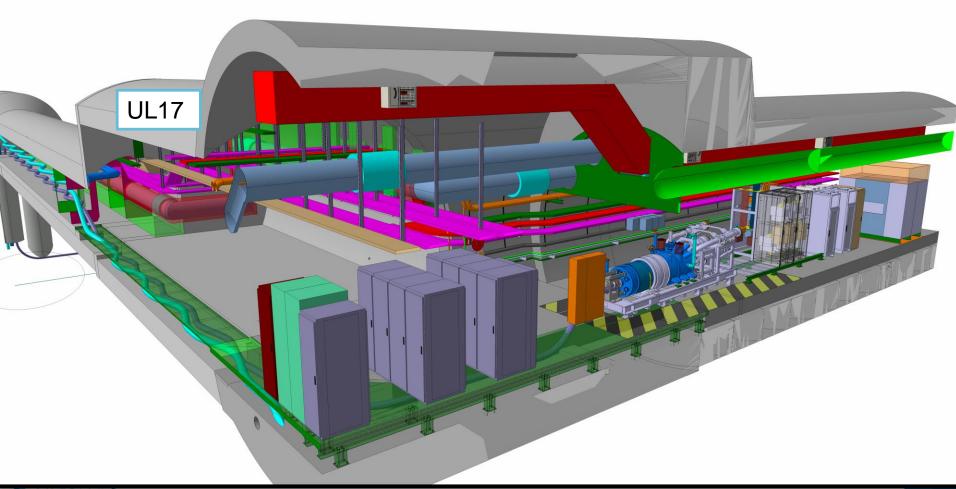
Status UR15 (in work)

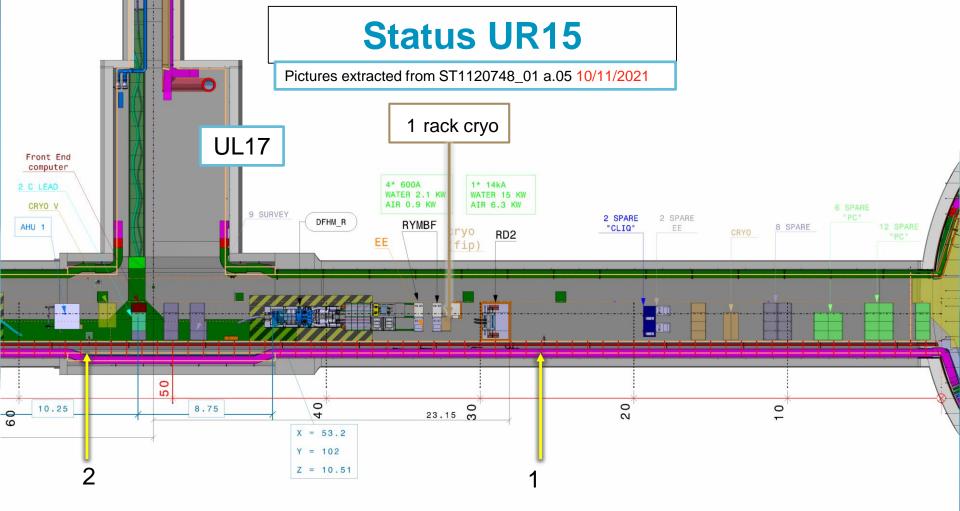
Pictures extracted from ST1120748_01 a.05 25/10/2021

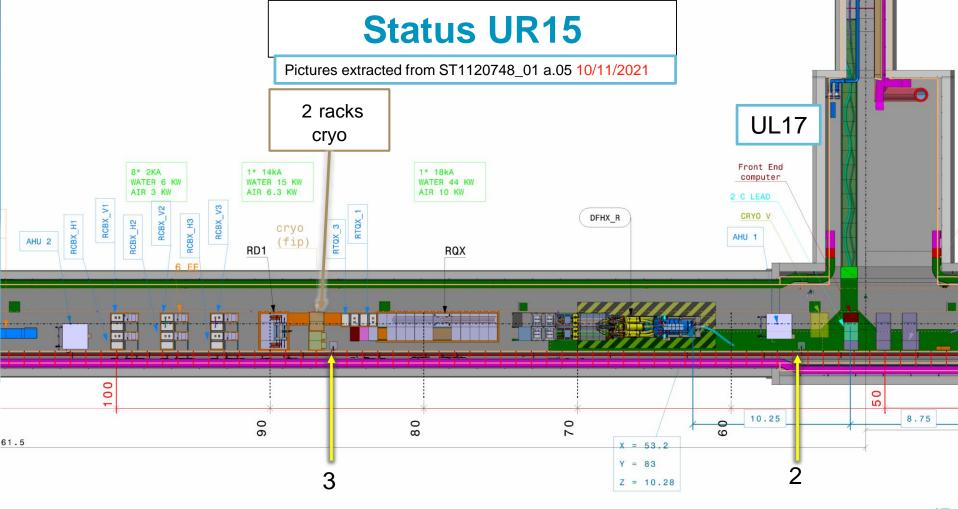


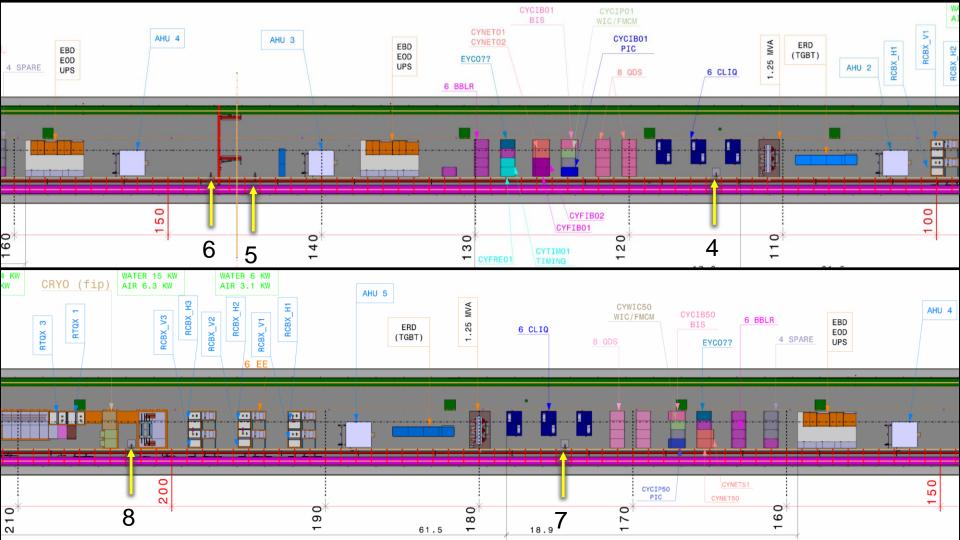
2 QXL

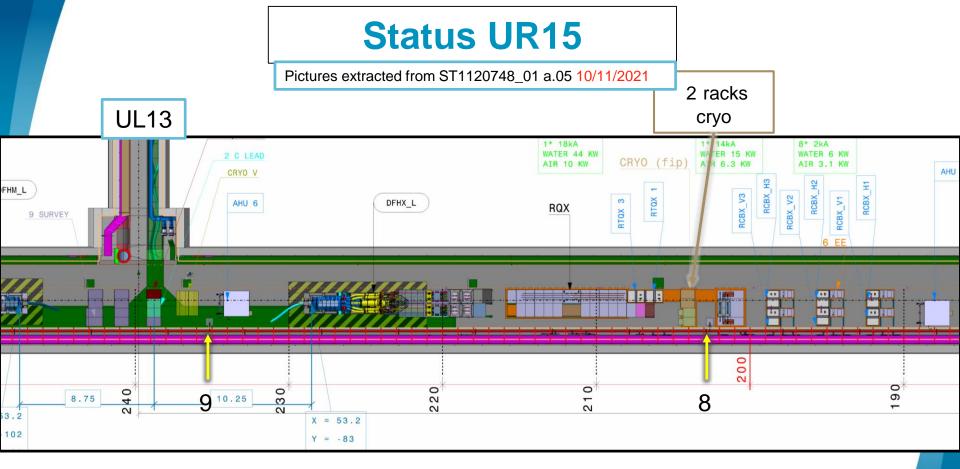














Status UR15 Pictures extracted from ST1120748_01 a.05 10/11/2021 1 rack cryo **UA13** AIR 0.9 KW AIR 6.3 KW FARADAY CAGE 6 RACKS DFHM L CRYO AHU 7 cryo **RYMBF** EZD RD2 EYCO?? (fip) 9 SURVEY 300 0 CYNET53=UR15 E0D02?? EE 2 CYNET52=UR15 Q. 260 290 280 0 8.75 27



