

Minutes EA Deliverables Review – 5 July 2019

Sebastien, Giulia, Sylvain, Gurkan, Eva, Erwan, Victor, Nikolaos, Aboubakr, Damien, Johannes

INTRODUCTION

Sebastien presented the introduction to the review. He reviewed all open points in the minutes of last review and the table with the list of tasks.

Discussion:

New XION requested in IRRAD/CHARM: Johannes is going to discuss with Salvatore and Ruben. The price of the detectors is not high, only the cabling will be expensive.

Giulia and Damien will discuss the BLM position, height and location with BE/OP to take a decision.

PLANNING

Erwan summarized the planning of the EAR project underlining the EA deliverable deadlines.

Deadlines:

B.352 :

- Optics : MadX files to be sent to the surveyors (4wks before marking) by 01/09/2019 (2mo slack)
- Mechanical supports for F61,F62, F6D and T8 : Ready for inst. 01/10/19 (2mo slack)
- Vacuum system : F61,F62,F6D, T8 : Ready for inst. 10/03/20 (~2mo slack)

B.157 :

- Shielding : Layout of the walls must be frozen for ground marking by 01/12/19 (No Slack)
- Optics : MadX files to be sent to the surveyors (4wks before marking) : 15/02/20 (No Slack)
- Mechanical supports for F63, T08, T09, T10, T11 : Ready for inst. 01/04/20 (No Slack)
- Instrumentation Exp Area (XCET, XSCI, XBPF) : 01/05/20 (~3mo slack)
- Vacuum system EA: T09, T10, T11 : Ready for inst. 01/06/20 (~3mo slack)
- CLOUD Platform : Ready for inst. 01/02/2020 (~1y slack)
- Gas systems : Installation start 01/08/20 (~5mo slack)
- TCX, Collimators, absorbers :Installation start 15/07/20 (~1mo slack)
- Vacuum system Prim. And mixed Area:T08, T09, T10, T11 : Ready for inst. 01/09/20 (No Slack)
- 1st layer of the roof of primary area (Beams + Sealing) : 01/10/20 (No Slack)
- Supporting structure for the mixed area + completion of the roof : 01/10/20 (No Slack)
- Control rooms : Installation start 01/07/20 (~6mo slack)

B.251:

- False floor : False floor to be ready for inst. 01/09/19 (0.5mo slack)

Jan – May 2021

Commissioning = Readiness of the group to operate the area (Controls, commissioning plan, ...)

SHIELDING

Erwan presented the shielding overview for the East Area.

Discussion:

Crack on the ground inspected by Abou with Richard (SMB/SE)

EN/EA action: relocate loading areas avoiding technical gallery, optimizing loads distribution

Metallic holding structure with pillars → need to validate the design as soon as possible – ask price to external company to have a reference and then maybe EN/EA workshop will do the assembly.

Sebastien proposed a solution for the drains based on pumps.

FALSE FLOOR b. 251

Gurkan presented the status of the false floor of b.251.

VACUUM

Victor presented the vacuum components status. The vacuum pumps have been ordered (14 pumps + 2 spare). Material available to do all F61 + F62 vacuum chambers, production on-going. For other lines (T-lines) there is a big difficulty to order the tubes (small quantities).

Discussion:

Damien will send the quantity and dimensions of chambers of the primary area line. Maybe some existing chambers could be recovered for this area. Hippodrome chamber for F61 recovered, stocked chez Victor.

Damien will give to Victor the quantity and 2D design of the hippodrome vacuum chambers. Hippodrome chambers will be done by AP at CERN. Damien needs to verify the aperture of the chamber inside the magnets, meeting with Johannes and Eva is needed.

Victor needs an input on the type of windows to be put in the lines!!! Action for Johannes and Eva.

For T-LINES Damien and Giulia will check the vacuum chambers in the layout database and will give to Victor the updated list.

COLLIMATORS

Sylvain presented the status and planning of the collimators for EA.

Erwan pointed out that the planning presented by Sylvain is already tight → need to start maintenance and production of new collimator as soon as possible.

GAS SYSTEM

David presented the gas equipment and system installation status.

MAGNETS SUPPORT

Damien presented status magnets support.

3D design ready for all magnets supports except Q74 where design is not finalized (discussion on going with TE/MS). All 2D drawings for supports for bldg. 352 are done.

Discussion:

Need to validate designs with MSC as soon as possible to give drawings to Victor. (Next week meeting Abou, Victor, Damien, Giulia)

Need to verify structural stability MCB frame support.

EQUIPMENT STATUS

Giulia presented status of EA deliverable equipment

XCET: Production windows done by AP in external company for the XCET. → need to validate the design and drawings to order them as soon as possible. Company for tubes EP for the XCET found by Michael and Serge → need to check the possible production (Giulia). XCET tube diameter will have small possible changes.

OTHER POINTS

DUMP: Offer too expensive, new design proposed by Michael. New dump design better also from the radioactive waste. Damien will verify the possibility to implement this design.

GUILLOTINE SHIELDING: manual design proposed by Damien. Discussion needed with RP.

PATCH PANELS: need to identify which connections are needed (Johannes will do it). DIC needs to be done. Functional position needs to be identified. Installation deadline: July 2020.

CONTROL ROOMS: EL wants to do their connection inside otherwise they will not be responsible for maintenance. Discussion on going with EL and Michael. CV is fine with the production by supplier.

ECR line F61: approve of ICL done last week. Circulation for approval soon and presentation IEFC (Giulia or Tom).

Notes by Giulia.