

Reviewers Questions

1) Schedule and PRR reviews.

This item came out with the observation that the qualification of a production/assembly site would require a pre-production to take place before the PRR. A relatively early PRR is useful for the procurement of components, while a PRR for assembly might be scheduled as a separate step.

Can you think and tell us your views about the correct way to define and schedule the PRR review(s), given your construction plans and the schedule of DUNE?

2) Requirements and specifications.

Looking at the different lists of specifications, we see that some requirements are described as met “by design”. However some parameters will requires a conformity check. Can you tell us more about how the requirements will be validated?

(Maybe this is discussed in the QA/QC presentation moved to second day, April 21)

3) In relation with the item above, one specific requirement is about flatness. You have told us that flatness of the PCBs was a concern with the first CRPs, and that the quality improved afterwards. Can you tell as more details about it (how flatness is specified and checked, and what changed in the manufacturing procedure).

Besides, in the cold the CRP frame and the PCBs might develop distortions in straightness and flatness, due to non uniformity in the structure of the material. DO you have concerns about this? Have you been able to test the geometry of the components in the cold, and do you foresee any checks during long-term production?

4) About the ground plane in the bottom CRPs, do you know how and when a decision will be taken? We wonder whether this uncertainty can have undesired implications on your program.