

Crab Cavities Technical Coordination VIII



Location:	376/01-020
Date:	12th September 2016
Time:	10.30
Scope:	coordination and alignment of tasks involved in the preparation of SPS tests, follow up of master plan.
Attendees:	Carlo Zanoni, Mateusz Sosin, Giovanna Vandoni, Frank Gerigk, Ofelia Capatina, Alick Macpherson, Aurelio Berjillos Barranco, Kurt Artoos, Marco Garlasche, Rama Calaga

Discussion:

The meeting has been focused on discussing improvements in the current planning in order to guarantee an acceptable delivery date of the cryomodule to SPS. Planning and technical issues have been mixed in the discussion.

The discussion started with a presentation from Aurelio on the master plan that he extracted from the workflow.

The points touched have been:

- Small issues with the master plans (namings, misleading colors...)
- By skipping cold test on dressed cavity II, we have both cavities ready at the same time. This was already in the workflow and has been confirmed.
- All stages of cavity production have been carefully analysed to squeeze and make coherent. As baseline the cavities will be ready before the Christmas break. If the frequency is sufficiently good, we can skip the alternative tuning (1 week), but this will stay in the workflow.
- BCP to be prepared in time with the plastic cavity.
- RF measurements can also be quick if prepared in time (with the plastic cavity again).
- Jamie Mitchell will support Rama with the RF measurements.
- Alick proposes some further optimization, based on a deep optimization of clean room activities. He also proposes skipping the alignment step of the string assembly inside the clean room. Mateusz doesn't see any issue. Ofelia thinks this will greatly increase the risk of a badly aligned string that will require a dismounting and remounting sequence. Carlo highlights that in any case the time saved is very limited because the alignment survey takes 2/3 days in the workflow (Alick estimates 2 weeks). Uncoherent planning may determine misleading indications.
- Ofelia reminds the importance of verifying the clean room activities with the persons involved in the technical details.
- RF tests in SM18 may be skipped: we can deal with most problems of that type in SPS. This is the opposite for the beam vacuum check at cold. We need the ~5 weeks for connecting, checking, cooling/ warmup, cutting again.
- Alick, Aurelio and Carlo will sit down together to clean workflow and master plan and include Alick's ideas in a more coherent way.

Action list:

	Action	Responsible	Opened	Closed	Result, Comment
1	Complete list of acceptance criteria	All	30.5.16		
2	List of people whose input is missing in the list of acceptance criteria	Rama	30.5.16		
3	Provide input to complete master plan	All	30.5.16		Mostly complete, tools column still not detailed (not needed for plan, initially). Time and sequence should be verified by everybody
8	Drive the proposal of an optimal solution for the stiffening frame that includes the helium tank or part of it	Carlo, Marco, Alick	11.7.16		Frames under design
9	Define list of talks for the clean room review 12/13 October	Frank	11.7.16		
10	Clarify who's in charge of the different leak detections	Giovanna	1.8.2016		
11	Pressure test dressed cavity: pre-alert HSE, verify the need of measurements	Marco, Carlo	1.8.2016		
13	Launch update of instrumentation list	Giovanna, Carlo	1.8.2016		Main inputs from Alick and Krzysztof
14	Follow up reservation of assembly and storage areas in SM18	Marco	1.8.2016		
15	Create master plan	Aurelio	15.8.2016	13.9.2016	
16	Fix naming/color issues in the master plan	Aurelio	13.9.2016		
17	Align the workflow with Alick's proposals	Aurelio, Alick, Carlo	13.9.2016		

Minutes taken by Carlo

Next meeting: Monday 26th of September