

## **Minutes of 1st Collimation Remote Commissioning Meeting, 20th of June 2014**

**Participants:** R.Giachino (RG), D.Jacquet (DJ), I.Lamas (IL), A.Masi (AM), S.Redaeli (SR), A.Rossi (AR), B.Salvachua (BS), G.Valentino (GV)

SR introduced the main topics to follow up in the meeting:

- System readiness for remote operations (including readiness for dry-runs and sector tests);
- Settings and controls: validation of post-LS1 system;
- Operational sequences and tests;
- Activities in the controls test stands;
- Specific requirement and tests for the new BPM feature;
- Preparation and execution of MP validation without beam.

The main goal of this series of meetings is to prepare the remote operation of the system from the CCC, starting from the completion of individual collimators hardware commissioning (HWC) by STI.

This activity will be completed when all the collimators will be validated for operation and all the machine protection validation (position and temperature) will be completed.

The frequency of the meeting will be every 2 to 3 weeks, however an updated list of available collimators for remote commissioning should be updated every week by STI (AM)

RG requested an informal meeting to gather information for the machine check-out:

- Status of the present system.
- Plan for readiness of the system from the point of view of OP availability.
- Approximate dates or periods for the required tests.

LHC-OP needs to know when the system will be ready to be operated remotely.

SR answers that we will provide list of collimators that are available for dry-runs as they are ready and points out that the tests that we need to do to the collimators should be quite independent from the machine check-out activities and should not conflict with them.

SR proposes a collimator commissioning similar to what was done in 2008/2009, with ~ 30 ramps to check reproducibility of the system. BS will check the tests that were done in the first commissioning.

SR comments that we have to update the logging parameters, but it is not clear who is the responsible. He points out that we need the new version of FESA class and the list of the new parameters that we want to log. In absence of an OP person in charge, he proposes that BS takes care of that. AM should provide as soon as possible the information on the new FESA interface.

AM points out that we also need to update the warning levels and alarms. DJ comments that we have to clean up internally this before OP takes a subset of alarms to be displayed.

**Goals for the next meeting:**

- Test configuration of DB, LSA parameters and tests sequences in the collimators that will be available in the test stand.
- We should have the new parameters for the test device with BPMs: TCTPH.272.TEST
- The optics will be missing but SR points out that the generation might work due to a patch in the code (to be tested).
- From the tunnel we need to check if we can operate without RBAC, etc.
- Check with BI if they need special sequence to be added.

### **Follow-up of Temperature sensors**

AM will meet with Enrique Blanco at the end of June to follow up the changes. AM reports that the hardware is already installed but they don't have the interfaces.

SR summarizes what is needed:

1. Interface
2. Dashboard
3. Data must be in CMW for logging
4. We need the Machine Protection scripts from Enrique Blanco in order to be able to perform the MPS by Aug-Sep 2014.
5. GV will provide an additional display

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### **Summary list of actions:**

AM: Update list of collimators available for remote handling every week

BS: Distribute Hardware Commissioning draft note and prepare the update of the MPS note on the validation of functionality and commissioning of cleaning with beam. Add a note stating that the collimators should be able to move with people in the tunnel.

BS: Check tests that were done in 2008/2009

BS: Update logging parameters

AM: Follow up of temperature sensors

AM: Make available the test stand in 272 for collimator with BPMs.

Next meeting will be 4th July 2014