

IRWG – Status and First Follow-up

V. Kain, B. Mikulec

Status

- ❑ Reviewed start-up after LS1 of (almost) all machines
 - Still missing PSB and ISOLDE
- ❑ All in all it worked. For some systems it even worked very well.
- ❑ Partly common issues
 - Experts' Priorities
 - Control system readiness
 - Assumption that GUIs that used work still work the same way
 - ...
- ❑ Next step: come up with strategy of how to improve this
 - Main focus needs to be on improvements WE can implement
 - (Improvements on services and equipment system preparation might not be easily obtained)

**CONCLUSIONS SO FAR –
OPEN FOR DISCUSSION AND
PROBABLY NOT COMPLETE**

Bettina and Verena's Résumé from Meetings so far

We will need to address two areas

- ❑ Organization and Responsibilities
- ❑ Tests, time requirements,...

Organization: How to deal with modifications?

- ❑ In case of introduction of “major” machine modifications during long stops
 - Involve machine responsible (OP/ABP) during specification phase
 - If possible, staged deployment of different features followed by dry runs “long before end of stop

 - Example: deployment of FGCs in the SPS

- ❑ Introduce test mode in equipment for realistic testing without beam
 - Where necessary
 - Example: FGC simulation mode
 - Caution: need protect against accidently leave equipment in simulation during beam operation

Organization: Re-definition of Phases and Responsibilities

- ❑ Phases up to now: Hardware tests – machine check-out – beam commissioning

- ❑ What we need:
 - “Machine Preparation for Beam”: 2 activities in parallel: hardware testing by equipment experts followed straight away by dry runs with operational software from control room. Preparation of applications, settings, cycles, optics, test drive, triggering, timings,...
 - Long parallel testing phase
 - Final running everything together without beam: no more access
 - = a lot more collaboration with equipment teams and technical stop coordination
 - A period of “several” months - Beam commissioning

Organization: How to do that?

- ❑ Need early coordination meetings.
 - Together with or after technical stop coordination meetings
 - Our test plan must be communicated and negotiated with the equipment teams
 - One responsible from OP/ABP per machine
 - Progress tracking

- ❑ What about global coordination meetings?
 - Machine priorities for equipment expert interventions
 - Testing machine interfaces: e.g. BHZ between PS and SPS

To discuss this further: we need to agree upon ourselves and then invite EN/MEF/OSS

**WHAT DO WE HAVE TO DO
NEXT?**

Skeleton list of tests per machine

- ❑ To be prepared by the machine representatives
 - What to test for each machine: how, what is needed
 - This should be a guide line
 - Is there a special order of tests?
 - Goal also: prioritized list of control services readiness (Timing, INCA applications,...)
 - Enforce certain additional hardware tests based on experience in the past
 - polarity check of all circuits.
 - Prepare list of conventions from/with control system, optics and hardware systems. Help from SPS
 - Will organize a talk by Stephane on conventions in the SPS (MAD, LSA, hardware) and how tests are carried out.
- ❑ Important: test skeleton has to stay alive and be updated if new systems arrive or things had been forgotten
- ❑ General skeleton example to be prepared by Bettina, Bertrand, Verena

Timeline

- ❑ Next meeting: PSB, ISOLDE

- ❑ Meeting:
 - Common skeleton test program
 - Round table discussion:
 - Each machine reaction to new approach: is there anything missing?,...
 - Applicability to EYETS