

Planning and Tracking Dry Runs

- ❑ Online access to planning
- ❑ Dry runs into check list tool?

What is done when?

- ❑ IST → equipment groups carry out tests to assert optimal functioning of equipment
 - During shutdown or HWC period
- ❑ Dry run → vertical slice test in collaboration between equipment groups, CO, OP from equipment to control room application/algorithm/setting
 - During shutdown or HWC period
- ❑ HWC/check out: OP runs equipment with control room tools with all interfaces and within operational scenarios. Machine is run as with beam
 - During HWC period

Planning

- ❑ The lists are available for the various machines
- ❑ Dates to be inserted into MS project
 - Extra category: → not according to accelerator zone
 - Should be possible to show dry planning in calendar view → possibly all machines
- ❑ Technical details to be sorted out for end of January
- ❑ → should enable equipment groups, CO to be pro-active

Mainly dry runs during shutdown need special attention

Tracking

- ❑ From discussion in the SPS commissioning WG

Tracking

- ❑ Tracking of HWC and ISTs: check list tool
 - Need to add ISTs in check lists tool. Deadline for this: before first ISTs
 - → Define date with Antonio
- ❑ Finalize HWC check lists: deadline mid of June 2020
- ❑ Dry runs: tracking ad hoc in slides log book.

The image shows two screenshots from a 'Machine Checkout' tool. The left screenshot displays a sidebar menu with categories: GENERAL, SAFETY, CONTROLS, TIMING SYSTEM, PARAMETERS AND DATABASES, EIS, and INDIVIDUAL SYSTEM TESTS. The right screenshot shows a detailed view of 'INDIVIDUAL SYSTEM TESTS' with a summary: 95 PASSED, 1 FAILED, and 7 TODO. Below this, a list of system groups is shown with progress bars: BEAM DUMPS (mostly green, some red), BEAM STOPPERS (green), KLYSTRONS (green), RF CONTROLS (green), RF SYSTEM (green), RFQ (green), BUNCHERS AND DEBUNCHER (green), LIC CENTRAL TIMING (green), RP MONITORS (green), and PRE-CHOPPER (green).

Injector's IST and HC readiness 4

- ❑ → Proposed dry run tracking was not satisfactory to everybody

After reflection and discussion: Tracking

- ❑ 2 categories of dry runs (also ISTs)
 - Cat1: Dry runs that will have to be carried out in that form each LS/YETS
 - Cat2: Dry runs that rely on specific test environment that was put in place for staged deployment and early testing given the complexity of system/process
 - Part of procedure will be used only once
 - Systems/processes with Cat2 dry runs will have Cat1 dry runs/HWC tests in the final configuration during HWC.

- ❑ The check list tool is meant for “eternity”
 - Lists that have been prepared for one-off tests will be visible for LS/YETS to come

After reflection and discussion: Tracking

- ❑ → Cat1 dry runs will be part described in check list tool
 - → tracking automatic

- ❑ → recommend to describe check list of Cat2 dry runs in ad hoc format
 - Presentation/discussion of results and issues one of the key agenda topics for machine commissioning meetings
 - Tracking and re-scheduling within machine commissioning/coordination team in their format
 - Re-scheduling → MS project planning update

- ❑ Example of Cat2 dry runs:
 - RF ATIM testing with lab oscilloscope to verify correct timing and applications setting through JAPC directly, not yet through LSA
 - SPS BPM electronics testing with ALPS FESA class for one sextant only
 - ...

Other consideration

- ❑ Equipment groups to use check list tool for ISTs and/or their commissioning?
- ❑ Similar considerations
 - → describe tests that validate the final configuration of system
- ❑ Then check lists are an asset during the commissioning
 - Procedures kept alive and updated as part of commissioning analysis
 - Tracking and statistics automatic
- ❑ Depending on how equipment groups want to use it, care needs to be taken when defining initial structure
 - Across complex in one view for given system? All group equipment per machine?,...