

SCOPE OF THE LONG SHUTDOWN 2 (OPTIMISATION OF THE PERIOD 2015-2018)

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Abstract

During this talk, the scope and mandate of the Long Shutdown 2 (LS2) has been introduced, emphasising on the major differences with respect to LS1.

The flexibility to use the winter shutdown to advance part of the works initially planned for LS2 will be considered in the frame of the LS2 discussions, the reporting line has been presented.

Finally, the main dates for the LS2 preparation have been presented and will be followed carefully in order to ensure a smooth preparation of the LS2 shutdown.

PROJECT SCOPE & MANDATE OF LS2 COORDINATOR

The project scope covers all activities carried out and resources needed in the context of Long Shutdown 2 over the whole CERN accelerator facilities.

The mandate of the project coordinator includes the period of preparation before the LS2, the definition of a resource loaded master schedule, the coordination and follow-up of activities and the flexibility to use periods before and after LS2 to decrease the working load or coactivity problems.

More specifically:

- Prior to the start of the LS2, the definition of main works to be achieved over the LS2 and of potential options based on priorities given to activities. This study shall highlight in particular LS2 duration and resources needed for each option and be presented to the Directorate by mid-2016 for final decision;

- The definition of a CERN-wide “resource-loaded planning”, ensuring the compatibility of resources and planning across the LHC Machine and LHC Experiments;
- The preparation, coordination and follow-up till completion of all LS2 activities in the frame of the LIU, HL-LHC Projects and other CERN approved projects. Work packages will define the work absolutely essential to achieve the LS2 objectives (activities which will bear a priority 1), which execution will be closely followed up by the LS2 coordinator. It is essential to also identify works which can be postponed to the LS3 (activities which will bear a priority 2), which impact on LS3 will be assessed by the LS2 coordinator.

The flexibility to use the end-of-year technical stops before and after the LS2 to decrease the load of the LS2 is left at the discretion of the LS2 coordinator and is also part of the scope of the project.

REPORTING LINE & COLLECTING INFORMATION

Reporting line

The LS2 coordinator will report on a strategic level to the CERN Director for Accelerators and Technology. At the technical level and when needed, LS2 Coordinator will report to the LMC and IEFM respectively for the LHC and Injectors.

The LS2 progress will get reviewed regularly at an executive level, as done for the LS1, in the LS2 Committee (LSC).

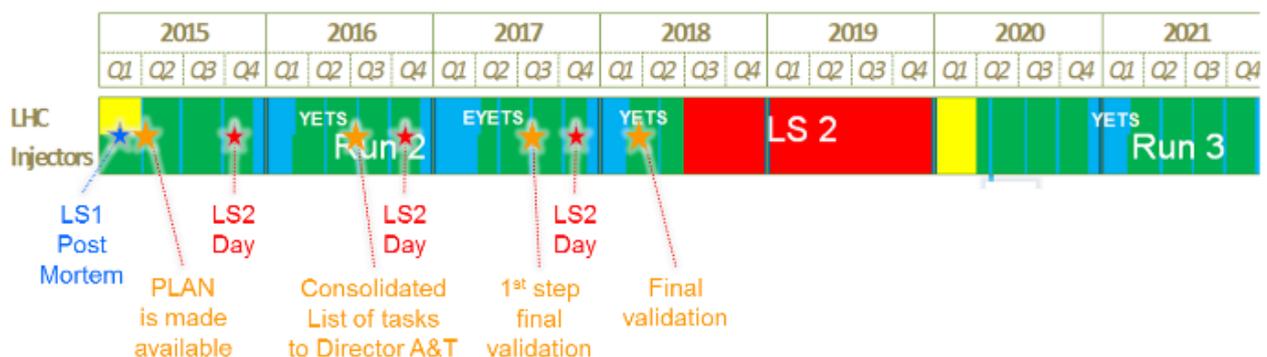


Figure 1: Fig.1: Main dates and milestones.

Collecting information

Collecting the relevant information is the challenge of the preparatory phase. As done for LS1, this will be initiated by Groups which will enter their requests and then followed by bi(multi)lateral meetings with Experiments, Groups, Teams and Projects to tune the information.

Indeed, the extensive use of PLAN tool during LS1 has been positively valued by all actors. Important improvements have been implemented following the feedback received. In particular, a PLAN Quality Assurance Manager has been assigned to check and homogenise the information available.

To ensure the proper preparation of the LS2 and give time for discussions and arbitration, the Coordination Team has set important milestones (Fig.1):

- LS1 Post-Mortem to take place during the 1st trimester'15: The objective of the meeting will be to address the topics relevant for LS2 and for which, feedback is considered important for its preparation. Learning from LS1 experience is mandatory.
- The "PLAN" tool will be introduced during the LS1 Post-Mortem meeting with its new features. It will be, within a month, get introduced to the Groups' member in charge of uploading the tasks. The

objective is to have most of the activities declared by end'15 for both Injectors and LHC, including Experimental Areas.

- By mid'16, are expected the definition of activities for EYETS 2016 and for LS2.
- The preliminary "final" validation will take place by mid'17.
- The LS2 kick-off day will take place end of 3rd trimester'15, and an LS2 day will take place once per year in the same period of the year, to provide relevant feedback to Chamonix workshop scheduled in January every year.
- The LS2 shutdown (personnel accessing underground accelerator tunnels) will:
 - Start the 1st July 2018, and
 - End after the Christmas Stop of 2019, for a total
 - Duration of 18 months (end'19).

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