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# Hardware Commissioning

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Following the uncertainty of the installation schedule, the HCWG focussed on the commissioning of two sectors around an even point in parallel augmented by a number of additional constraints. This exercise, which was published as a Management Report, yielded commissioning times and resource needs which can be scaled –within reasonable limits- to the requirements of the final installation schedule. Both the durations of the different phases and the personnel required have been estimated in the light of previous experience at the String and during Hera commissioning. The current trend of reducing the time available for hardware commissioning cannot continue indefinitely. The hard limit is reached when the time taken by the test procedures and by the result interpretation cannot be further shortened but also when additional resources to obtain shorter times cannot be added. The talk will describe how the evaluation exercise was conducted, focus on the test procedures, quality assurance and decision making process, propose alternative strategies for deploying additional manpower and finally emphasize the need for first-rate service from the infrastructures and software applications.

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