

**Subject:** WLCG Pledges for 2017, update on the situation  
**Date:** Friday 9 September 2016 at 09 h 03 min 56 s Central European Summer Time  
**From:** WLCG Office  
**To:** WLCG Office  
**CC:** Ian Bird  
**Priority:** High  
**Attachments:** Pledges-Sept2016-Plots.pdf, Pledges-Sept2016.pdf

Dear colleagues,

As I am sure you are aware, the performance of the LHC during 2016 has been outstanding, and in particular the availability of stable beams has been on average at the level of 60% or better (much higher in July for example). This should be compared with the 37% figure that has been used in the previous planning. This welcome increase in availability, together with additional improvements in spontaneous luminosity and a consequent increase in the average pile-up values for ATLAS and CMS stress the computing of the experiments during Run 2.

The four LHC experiments have reviewed their requirements for 2017 and 2018 in preparation for the October RRB. As baseline parameters for 2017,18 we have used the updated planning data provided by the LHC machine experts, as described in the tables available here: <https://lhc-commissioning.web.cern.ch/lhc-commissioning/schedule/LHC-long-term.htm> . Since the updated requirements for 2017 are significantly different from those discussed in the April RRB, we propose to adjust the schedule for the update of the pledges in preparation for the October RRB.

The existing deadline for updating the pledges in REBUS was originally given as September 12. We propose that this deadline is postponed until the RRB itself, giving the scrutiny group the possibility to review the requirements in the light of the new input parameters (increased live time, luminosity, pile-up). Of course it would be important to update the pledges as quickly as possible following that RRB meeting.

The updated requirements are provided for your information in the attachments to this email. The first provides 4 tables in the format that you find in REBUS:

- 2016: extracted from REBUS – for reference the approved requirements for the current year 2016
- 2017-April: extracted from REBUS – the 2017 requirements as stated and reviewed at the time of the April 2016 RRB
- 2017-September: the newly updated requirements for 2017. Here you see the increase with respect to the April estimates – of order 20-30% increase in need.
- 2018-September: the newly updated requirements for 2018. Formally this upcoming RRB would be the first look at these numbers.

The second attachment is a graphical representation of those tables. Note, of course, that these numbers have not yet been reviewed by the scrutiny group.

It is of course understood that many of the procurement processes have been underway for some time, and if there are possibilities to increase pledges those increases may not be available at the beginning of the next resource year (April 2017). It will be important however, to explore any possibility to increase the available resources to try to meet the updated needs.

If you have further questions on the numbers, or about the process, do not hesitate to ask.

Best Regards,

Ian

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