

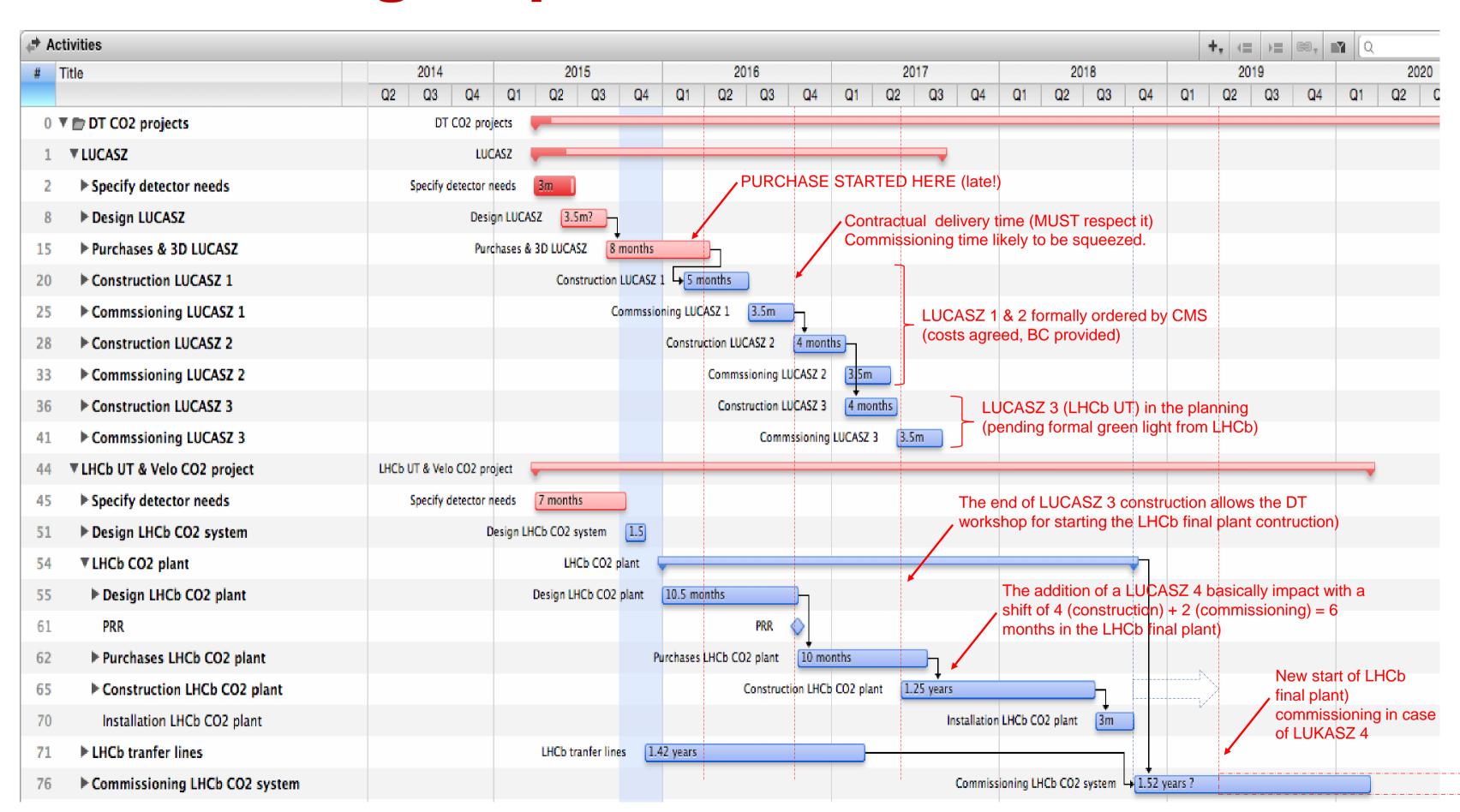
Update on construction, cost and and schedule for the LUCASZ cooling plants

P. Petagna

October 13th, 2016



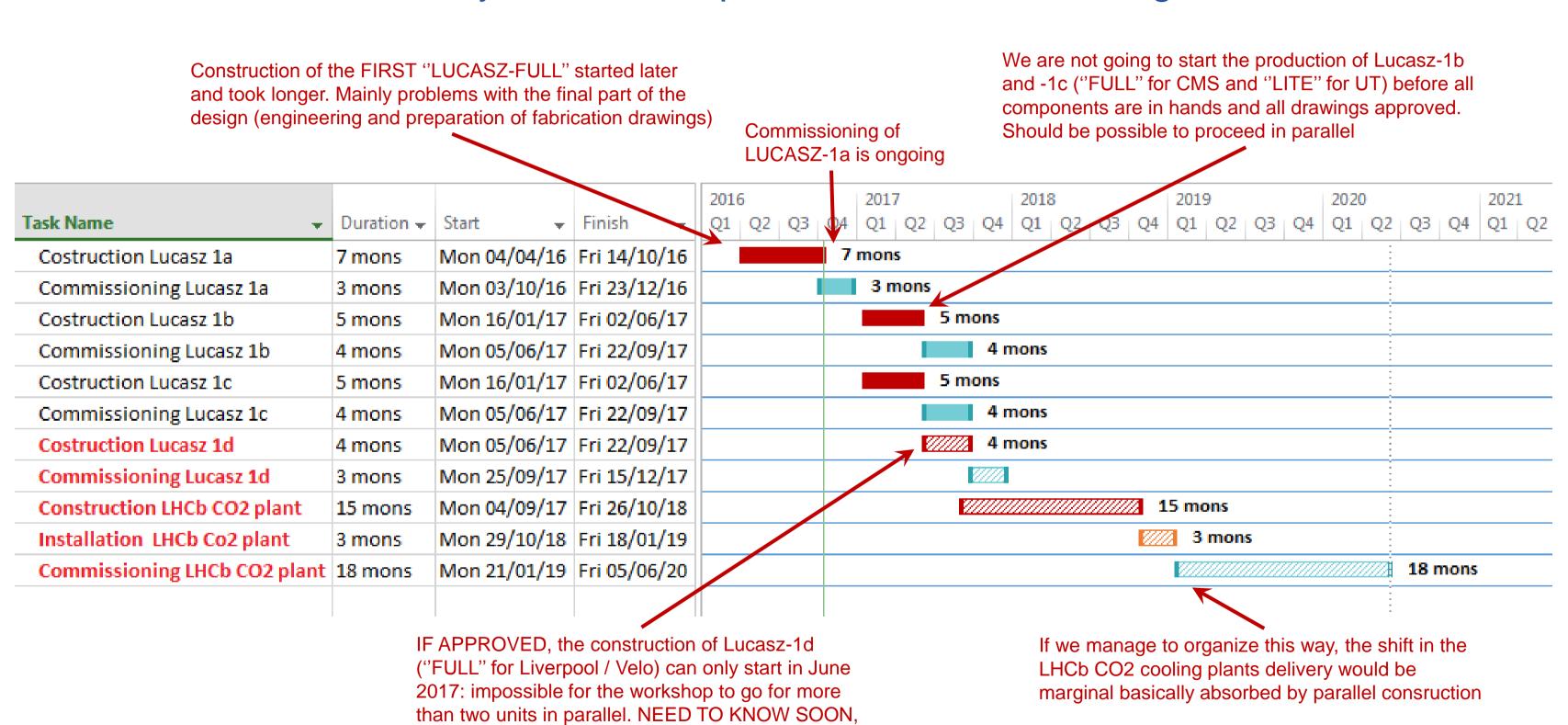
Planning as presented in March 2016





Possible (?) updated planning

Not yet internally approved, still for discussion. Need to verify the workshop needs from the EP-DT gas team



as the work maut be planned in the workshop.

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Consequeces for LHCb

Mail Apr 5 2016

Dear Paula, all,

Sorry I could not react faster, I hope this is not too late.

The first two "Full" LUKASZ units are planned at the moment to be under commissioning from JULY through OCTOBER 2016 and from **FEBRUARY through MAY 2017**.

The third one, which will be a "Light" version, is planned for commissioning from MAY through AUGUST 2017. The commissioning of this unit would be probably somehow different from the one of the Liverpool unit (although in any case certainly instructive, as many more operations will be conducted in "fully manual" mode) During one of these slots the person selected should be available to spend a period of roughly 3 months here shadowing our team (possibly with some pauses). After this, the commissioning of the Liverpool unit can be planned in the period AUGUST through NOVEMBER 2017. During this period one should count for ~ 4 months full time at CERN.

As you can imagine, the dates are only indicative at this stage, although we are constantly doing all we can to keep our activity on track as planned. Cheers,

p.

This is now supposed to be a single period of common commissioning for the 2nd CMS unit and the UT unit extending from **JUN to SEP 2017**

REQUEST CONFIRMED

This is now supposed to be **SEP to DEC 2017: REQUEST CONFIRMED**



Update on LUCASZ cost

The first LUCASZ-FULL is now almost completed and (almost) paid for:

Estimated (announced) cost for LUCASZ FULL: 135 kCHF

Estimated (announced) cost for LUCASZ LITE: 90 kCHF

TOTAL COST FOR LUCASZ-FULL: ~165 kCHF (115 kCHF material / 50 kCHF FSU time)

TOTAL COST FOR LUCASZ-LITE: ~100 kCHF (material + FSU)

The cost of the manpower (FSU time) required was somehow underestimated. However the delays occurred with the release of drawings for production and with procurement of some key components during construction led to a non-negligible increase of the FSU hour budget.

With the next units, also counting on synergies from parallel construction, we count on a cost reduction reasonably in the range of ~15 kCHF