

## Minutes of LN/LBT Planning Meeting

August 11, 2016 – 17:00 CEST (8:00 MST)

### Attendees:

- MPIA: Thomas Bertram, Tom Herbst, Martin Kürster
- LBTO: Al Conrad, John Little, David Carroll, Doug Summers, James Riedl, Xianyu Zhang

### 1. Dates and People

1. Six persons will be on the summit on Thursday the 15<sup>th</sup>:  
Thomas B., Harald, Peter Biz, Florian, Werner, Tobias M., Ralf-Rainer
2. Two will arrive the next day, Friday the 16<sup>th</sup>.  
Tom H., Tobias A.
3. Four persons have not yet received the safety training (David C. will provide this on the 15<sup>th</sup> and 16<sup>th</sup>):  
Harald, Tobias M., Ralf-Rainer, Tobias A.

### 2. 12 points from Thomas' 29-July email:

1. Container choreography: The plan outlined in the storyboard is OK, but with just two comments: The reference to container “H” at the bottom of page 6, should say “D” and the need date for containers A and B on the summit is the 23<sup>rd</sup> (see page 6 of storyboard) so these could come up later than indicated.
2. Cover and UIAP removal on the 16<sup>th</sup>: John proposed that the cover and UIAP be taken to level-5 instead of the high bay. The stand would be transported from the high bay to level 5 beforehand. It would be possible for the I-11 team to work on these while they are on level 5 just as they would have if they were in the high bay. This new plan was adopted.
3. Weighing LN with the crane scale: As in I-2 last November, the crane scale will be attached pre-lift to get an accurate weight for rebalancing and then removed for the actual craning into position. New scales and larger shackles have been acquired since I-2.
4. Power connections: Connection on the 19<sup>th</sup> should be no problem.
5. Laser Tracker: Page 5 of the storyboard provides a view from last time (top panel) and concept for this time (middle panel). We propose to have two practice sessions beforehand: #1) between now and the 15<sup>th</sup> (possibly this could be done in parallel with the “add weight to telescope” task planned for 12-14 Sep (?) – Al will ask Tom M. about that possibility) and (#2) one of the days after the UIAP and Cover are off (17,18 or 19 Sep). **An understanding of how the LT readings map to the global telescope coordinate system is needed.**
6. Detach the traverse: We discussed the three options for what to do with the traverse before, during, and after positioning LN and rebalancing the telescope (during this time the traverse cannot be moved to the high bay via the telescope “dance”):
  - i. Keep it attached to the crane all night (directly over LN), but tied off with tag lines.
  - ii. Fly it over the primary (with swing arms pulled in) to create an egress path that does not require the telescope dance.

- iii. Return it to LN and bolt it back on for the night. In this case the crane could be left attached, but not carrying the full weight.

Neither of the first two is ideal safety-wise, but it wasn't clear which imposed the most risk. The latter is the safest, but least time efficient and could result in losing some of the engineering time on-sky on the 22<sup>nd</sup>. Option (iii) is the most likely, but a final decision was deferred pending further discussion at LBT.

7. Service connections:

- i. Fibers: Fibers will be run directly to the LN patch panel, which can be seen close-up in the storyboard on the top of page 7 and also in the birds-eye view at the bottom of page 5 (directly below the left-hand GWS in that view). The fibers will be run during the week that starts Aug 29.
  - ii. Glycol: James reported that a recent test showed that LN will have adequate flow. He and/or Mike G. will support the glycol connection on the 22<sup>nd</sup>.
  - iii. Ethernet: Chris and Leroy will establish Connections. Stephen has preconfigured the V-LANS.
8. Cool down: The cryostat cool down will require telescope at zenith and a turbo pump running (possible vibration source) all day from the 22<sup>nd</sup> until the 27<sup>th</sup>. These days occur during LUCI/AO commissioning. A possible conflict (e.g., with an unforeseen need to a run day test for LUCI/AO) was raised. **We need to coordinate these two activities.**
9. MGIO container help on the 21<sup>st</sup>: Should be no problem.
10. Additional shelf on 3L: LBT should be able provide this in time.
11. Availability of Big Joe: LBT will check on having it available in time.
12. Your welcome!

3. Guiding and Acquisition

1. In addition to the interfaces required for acquisition and field rotation (mostly tested during Pathfinder), a guider interface is needed (i.e., a mechanism for sending delta az/el).
2. No IIF change requests are foreseen, but more checking is required.
3. **LBT requests that the LN team generate a specification modeled after the PEPSI document** (distributed at the meeting last March and again today) to check the no-changes-needed assumption, and to generally establish a contract (as was done with the ICD on the hardware side) between LBT and LN.
4. Tom H. is working with a new post-Doc (Rosalie) on this project, following the departure of Frank Kittmann.
5. Doug offered assistance by way of site visits and/or telecons between members of the LBT software group and the folks on the LN team working on LN G&A.

4. AOB

1. Thomas noted that LN will wish to again use the leak detector during I-11.
2. David raised the issue of fall restraint during the work on the plate (currently wooden) that covers the hole leading down to the cryostat. He will work with Thomas on the fall restraint method during the first few days of I-II. The

method of replacing the wooden plate with the newer (existing) aluminum plate was also discussed, but the details will be finalized during the visit.

5. Next Videocon:

- We will reserve the last 20 minutes (8:40 to 9:00 MST) of the commissioning plan review, which is scheduled for 8-sep-2016 7:00 to 9:00 MST, for discussion of any last minute I-11 logistical changes.