

**Minutes of the 39<sup>th</sup> Plenary Meeting of the LHC Resource Review Boards (RRB)  
(CERN, Geneva, 13<sup>th</sup> October 2014)**

Documents and slides of all presentations can be found on the RRB indico pages; accessible via the LHC-RRB home page  
<http://cern.ch/committees/all/welcomeLHCRRB.html>

**1. Welcome.** S. Bertolucci, Director for Research and Scientific Computing  
S. Bertolucci welcomed delegates to the Plenary meeting of the RRB.

The meeting was started with one minute silence in remembrance of Emilio Picasso, who passed away on Sunday October 12<sup>th</sup> 2014.

*The minutes of the last Plenary Session CERN-RRB-2014-062 were approved.*

**2. CERN Status and News.** S. Bertolucci, Director for Research and Scientific Computing

**3. LHC Machine Status.** F. Bordry, Technology department head, for the LHC team.  
(items 2 & 3 were combined in one presentation and given by S. Bertolucci,  
<http://indico.cern.ch/event/334150/session/0/contribution/1/material/slides/0.pdf>)

Main points:

- LS1 has progressed very well. Only 3 weeks of delay were accumulated but many more tasks than planned were completed.
- The priorities for the 2015 run are to establish proton-proton collisions at 13 TeV with 25 ns and *low*  $\beta^*$  to prepare the production runs in 2016/17.
- Integrated luminosity expected in 2015: 10 fb<sup>-1</sup>
- Expect less than 0.5 dumps per fb<sup>-1</sup> due to improved electronics w.r.t. radiation damage to electronics
- Experiments are also doing well. No serious hiccoughs.
- Phase I upgrades consolidated in terms of funding.

S. Bertolucci then presented a proposal from the CERN directorate for Phase II upgrade funding.

This proposal gave rise to a discussion. Since there was no unanimous support from the Funding Agencies, no decision was taken.

*For the March LHCC meeting in 2015, the LHCC Upgrade Cost Group is preparing a document on the review procedure for the Phase II upgrades during their lifecycle, which will address performance and cost of the entire detector. The overall plans for the upgrades are laid out in comprehensive Letter of Intent (ATLAS) or Technical Proposals (CMS).*

*In addition the experiments will provide concise Scoping Documents for cost scenarios of 200 MCHF, 235 MCHF and 275 MCHF for the September LHCC. The Scoping Documents will also contain a preliminary assessment of the funding commitments of the Funding Agencies (obtained by the contacts of the experiments with their Funding Agencies).*

*The LHCC and the UCG (which is part of the LHCC Scrutiny Group) will review the Scoping Documents and prepare a recommendation for the October 2015 RRB. This procedure was presented to the SPC and reported at the Council meeting of Dec. 8-9 2014.*

An update of the process will be given at the April 2015 RRB.

**4. M&O scrutiny group report.** C. Touramanis (Chair, Scrutiny Group)  
CERN-RRB-2014-074 (report), CERN-RRB-2014-108 (presentation)

There were no questions after C. Touramanis' presentation.

**4. Summary.** S. Bertolucci. Director for Research and Scientific Computing  
There being no further business, S. Bertolucci thanked the delegates and closed the meeting. The proposed dates for the next RRB are 27-29 April 2015.