



Review of 2016 action list of the HL-LHC TCC

[Link](#)

HL-LHC TCC Team, 19/01/2017
23rd HL-LHC TCC meeting

Action list - 2016

TCC meeting	Action	Responsible	Comments	Status
1 st	TCC membership and mailing list update	O. Bruning		Done
2 nd	Review of the status of the circuit powering options	WP3, WP6, WP7	Magnet Circuit Forum has been launched	Done
2 nd	Proposal on operating temperature of Q6 magnets in Pt 1-5 + cost variations for 1.9 K option	WP3 and WP9	http://indico.cern.ch/event/476960/	Done
2 nd	Push the MQYs gradient to 180 T/m during hardware commissioning	M. Pojer, WP3, WP7	Rejected, see minutes: http://indico.cern.ch/event/476958	Done
2 nd	Required Q5 gradient Point 6	WP2	see TDRv0.1	Done
2 nd	Update on collimation system	S. Redaelli	done in the framework of the HL-LHC re-scoping, see TDRv0.1	Done
3 rd	Update on earthquake and vibration measurements	J. Wenninger, M. Guinchard	https://indico.cern.ch/event/515633/	Done

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4 th	Feasibility of powering the two apertures of Q4-Q5-Q6 in series	Magnet Circuit Forum	Rejected, see circuit review https://indico.cern.ch/event/476995	Done
4 th	Update from BI on the plans for BLMs in the triplet	R. Jones		Ongoing
4 th	Revision of beam screen/cold bore tolerances for the triplets	C. Garion	https://indico.cern.ch/event/515629	Done
5 th	Evaluate implications of alternating crossing angles on machine protection	WP5, WP7		Ongoing
7 th	Estimates of expected radiation dose on the BPMs	F. Cerutti	https://indico.cern.ch/event/476995/	Done
7 th	Update on the chosen Q1-to-Q2a BPM configuration	P. Fessia	https://indico.cern.ch/event/515629/	Done
7 th	Proposal for installation of BLMs or diamond BLMs at COLDEX	V. Baglin, R. Jones	ECR release	Ongoing
7 th	Proposal for the optimal temperature window for the beam screen	V. Baglin		Ongoing
7 th	Proposal for the protection of MCBXF correctors (EE or QH)	Magnet circuit forum		Ongoing

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8 th	Necessity of bellows for each element in the Q1- TAXS area	V. Baglin		Ongoing
10 th	Decision on mid-circuit/coil voltage taps for all HL-LHC magnets	Magnet circuit forum		Done
10 th	Need for mitigations of failure cases for protection elements in IR6 after conclusions from the thermo-mechanical analysis	A. Lechner		Ongoing
10 th	Need for shielding in the connection cryostat	V. Parma	http://indico.cern.ch/event/559125/	Done
13 th	Update on optics constraints for the injection and dump protection elements + parameters used for defining the dispersion limits at the TCDQ	WP14		Ongoing
14 th	Review of matching section circuits + iteration with integration for the space needed for the SC link of D2	A. Ballarino, F. Rodriguez Mateos	see TDRv0.1	Done

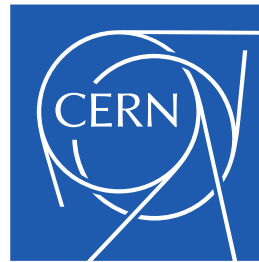
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15 th	Quantify resources needed to develop the octagonal BPM design and the cost difference	R. Jones, T. Lefevre		Ongoing
15 th	Update on the transverse tolerances for the RF fingers in the triplet area	V. Baglin		Ongoing
16 th	Discussion on the RF quadrupole, with the RF GL, the SRF coordinator and SRF SL	L. Rossi, O. Bruning		Done
16 th	Evaluate Q4 magnet options (4 correctors, 3 correctors and MQYY option) and impact on costs and performance	WP2, WP3, MP3		Ongoing
17 th	Cost estimates for electron lens test stand	R. Jones		Ongoing
19 th	Presentation of the result of high temperature tests for graphite	M. Calviani		Ongoing
19 th	Update on the dump design studies	C. Bracco		Ongoing

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20 th	Alternatives for the cryo upgrade, including the impact on infrastructure	S. Claudet		Ongoing
20 th	Decision for the necessity of testing the DFX in SM18 and the two options of the STRING test	WP3, WP9		Ongoing
21 th	Discussion on LRBB wire compensation	A. Rossi	http://indico.cern.ch/event/590397/	Done

Thanks a lot for your attention!



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