

MMM and TEMB - 6 July, 2009

Status Report of Magnet Work Week 27 / 2009

Francesco Bertinelli - TE/MSC

On behalf of - and with several contributions from - surface and IC teams



Tunnel News

- Sector 3-4:
 - VACSEC 19R3 (Q19 to Q23): helium leak (1E-2 mbarls⁻¹ at 1 bar) on the cold mass or c'k circuits
 - Pressure test last weekend (4 July)
- Sector 5-6:
 - Vacuum leak from IFS box in B32L6 (MB2229) located and repaired (backing gas screw, not touched this shutdown)
- Sector 6-7:
 - All electrical connections done
 - W28: last insulations and ELQA, last M and K welds, close last W
 - Segments (MB and MQ) to be remeasured (when?)



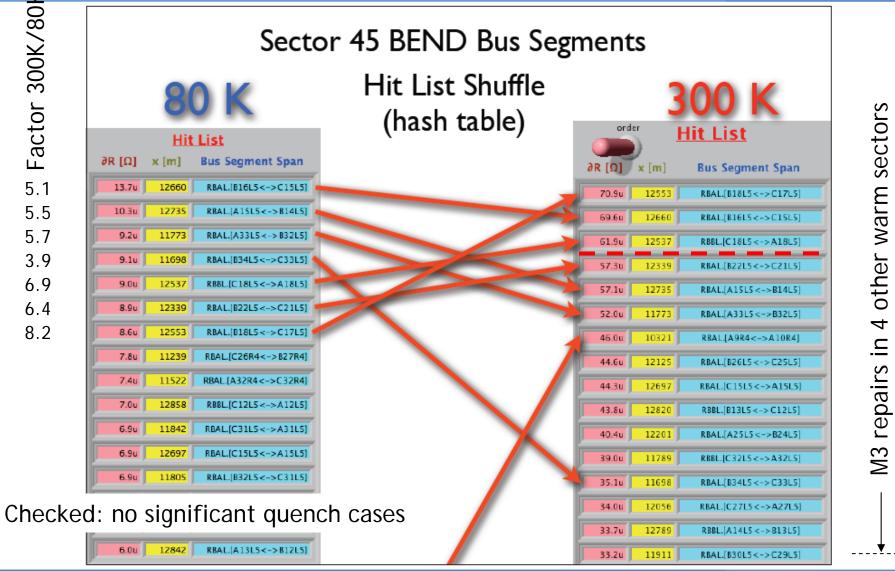
Sector 4-5: beam lines

 PIM intervention required by VSC (old NCR 903606, QBQI.12R4, V1)

 ICIT removed most of plastic shim 14. 1m FORETEC ICIT

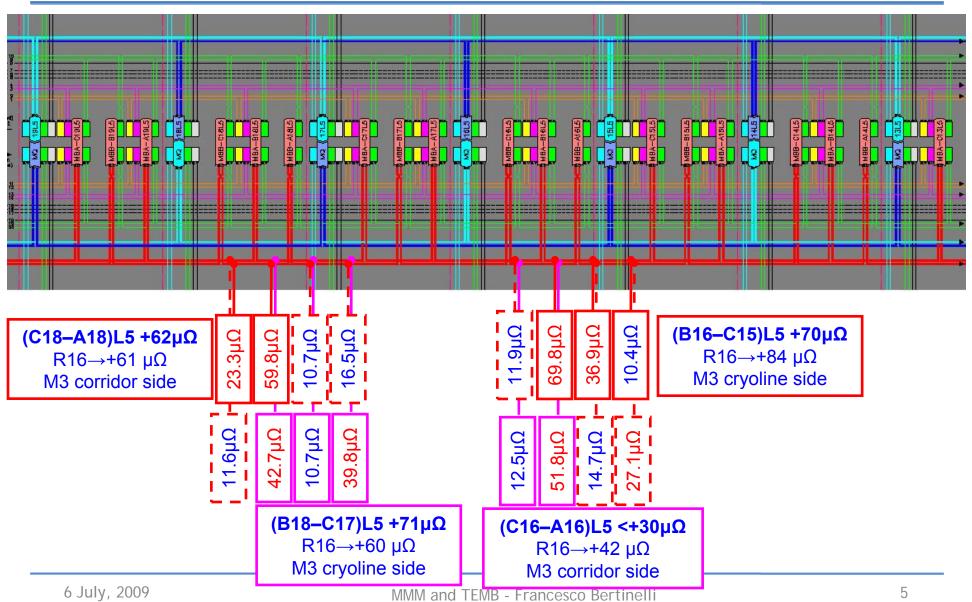


4-5 First M3 Hit List (for repairs)





4-5 M3 R16 cf "Bob"





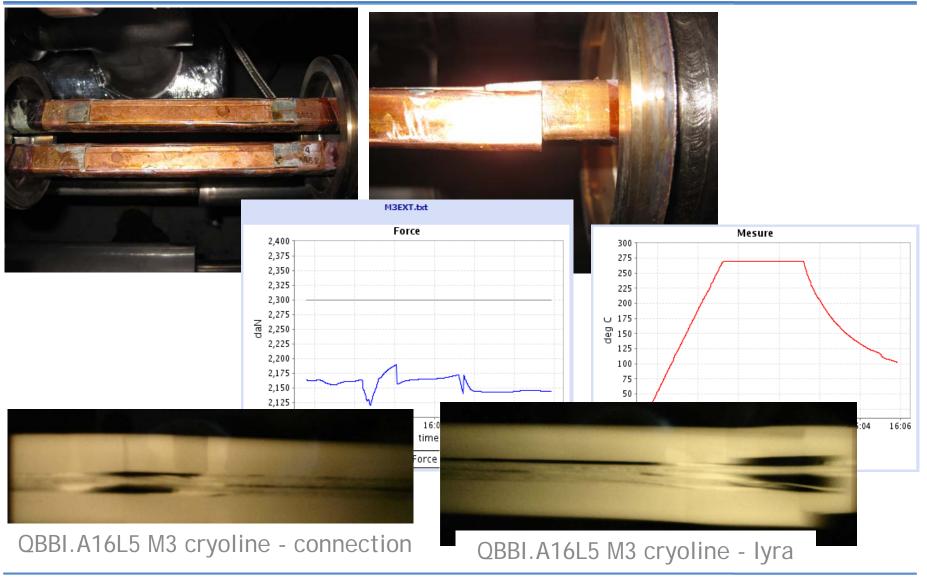
4-5 splices repaired

Inter. number	Main busbars	Photos (before unsoldering)	US-test (before unsoldering)	Additional US test bus bar noses	R-16 before unsoldering	Gamma ray control (before unsoldering)	Visual inspection and photos after repair	US-test after repair	R-16 after repair	QC insulation main bus bars	QC insulation spools
4-5											
QEBI.11L5	M3-corridor	done	4 out of 4, P.B., 26.6.09	both OK, P.B., 26.6.09	12.0						
	M3-cryoline	done	4 out of 4, P.B., 26.6.09		19.4				10.4		
QQEI.11L5	M1-corridor	done	4 out of 4, P.B., 26.6.09		20.4						
	M1-cryoline	done	4 out of 4, P.B., 26.6.09	both OK, P.B., 26.6.09	19.0						
	M2-corridor	done	4 out of 4, P.B., 26.6.09	both OK, P.B., 26.6.09	28.1						
	M2-cryoline	done	4 out of 4, P.B., 26.6.09	both OK, P.B., 26.6.09	19.6						
	M3-corridor	done	4 out of 4, P.B., 26.6.09	both OK, P.B., 26.6.09	13.0						
	M3-cryoline	done	4 out of 4, P.B., 26.6.09	both OK, P.B., 26.6.09	11.7						
<u> </u>	M3-cryoline				10.4						
	M3-corridor				27.1						
OBOL16L5	M3-cryoline				36.9						
	M3-corridor				14.7						
QBBLA16L5	M3-cryoline				69.8						
	M3-corridor				51.8						
QBBLB16L5	M3-cryoline				11.9						
	M3-corridor				12.5						
QQBL17L5	M3-cryoline				39.8						
	M3-corridor				16.5						
QBBLA18L5	M3-cryoline				42.7						
	M3-corridor				59.8						
QBBLB18L5	M3-cryoline				11.6						
	M3-corridor				23.3						
QBQL18L5	M3-cryoline				10.7						
	M3-corridor				10.7						

~13 splices being repaired



QBBI.A16L5 cryoline side





Pressure relief nozzles

- Paint removal: all done (BLM reinstallation to start?)
- DN200:
 - DSR4 and 31R4-33R4 done, W closing started
 - Cutting soon finished Monday 6 July, welding by Wednesday 8 July
- DFBA: workshop work finished, re-installation to start



Sector 4-5 Plan W28

- Final segment measurements:
 - Monday: partial and complete busbars
 - Tuesday: MQ
 - Wednesday morning: MB
- Splice repairs: finished Tuesday evening
- VACSEC: start pumping Wednesday afternoon (follows segment resistance measurements)
- QBQI.12R4: finish endoscopy Monday (VSC support urgent)
- VSC position: not to install more DN200 (e.g. 12 R4), i.e. potentially ~20 more
- Close 4-5: 1-2 working days later than planned, mid W29
- [Resources starting W29 will be strongly reduced]

