

This page contains a checklist of deliverables needed before the green light can be given to a reprocessing. A copy of this checklist should be filled in for each new reprocessing.

Reprocessing checklist for Reco14/Stripping20 (for 2011 and 2012 data)

A. Releases

All needed software must be released and distributed on CVMFS

A.1 Reconstruction

- Check with sub-system software coordinators that all expected updates have been included

Subsystem	Coordinator	Software released (SVN tag)
Brunel Framework	Marco Cattaneo	
Velo	David Hutchcroft	Yes in Brunel v43r1p1
ST	Mark Tobin	
OT	Lucia Grillo, Francesco Dettori	No changes planned
Tracking Pattern Recognition	Jeroen van Tilburg	Yes, in Brunel v43r1p1
Track Fit	Jeroen van Tilburg	Yes, in Brunel v43r1p1
Primary Vertex	Mariusz Witek	Yes, in Brunel v43r1p1
Rich	Chris Jones	Yes, in Brunel v43r1p1
Calo	Olivier Deschamps	Yes, in Brunel v43r1p1
Muon ID	Helder Lopes	No changes planned
Global PID	Chris Jones	
Lumi	Jaap Panman	No changes needed

- See also task #33131: Deployment and Validation of Reco13e/Reco14 [↗](#)

A.2 Stripping

- Check that all expected updates included

Subsystem	Coordinator	Software released (SVN tag)
Davinci Framework	Chris Jones	
Stripping Framework	Anton Poluetkov	
Stripping Lines	Anton Poluetkov	
Stripping options in AppConfig	Anton Poluetkov	

A.3 Conditions Database

- Check with sub-system software coordinators that all expected updates have been included for all IOVs

2011 calibrations for Reco14			
Subsystem	Coordinator	Tag / Patch	Last validated date
Velo RF Foil description	Thomas Latham	patch 5494	No time dependence. Not yet included in latest 2011 dddb tag
Velo alignment	Silvia Borghi	http://savannah.cern.ch/patch/?5588 ↗	All of 2011
ST dead channels		https://savannah.cern.ch/patch/?5591 ↗	

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	Frederic Dupertuis		
ST charge and noise calibration	Frederic Dupertuis	https://savannah.cern.ch/patch/?5591	
OT time calibration	Lucia Grillo	https://savannah.cern.ch/patch/?5591	All of 2011
Tracking alignment	Maurizio Martinelli	http://savannah.cern.ch/patch/?5588	All of 2011
Rich refractive index	Chris Jones	http://savannah.cern.ch/patch/?5587	All of 2011
Rich mirror alignment	Chris Jones	http://savannah.cern.ch/patch/?5587	All of 2011
Rich HPD occupancies	Chris Jones	http://savannah.cern.ch/patch/?5587	All of 2011
Rich HPD image alignment	Chris Jones	http://savannah.cern.ch/patch/?5587	All of 2011
Ecal(+Hcal) gain correction	Olivier Deschamps		No changes planned
Calo PID calibration	Olivier Deschamps		No changes planned
Calo reconstruction	Olivier Deschamps		No changes planned
Calo alignment	Olivier Deschamps		No changes planned
Muon ID calibration	Helder Lopes		No changes planned

2012 calibrations for Reco14			
Subsystem	Coordinator	Tag / Patch	Last validated date
Velo alignment	Silvia Borghi	patch 5506	expect no change until end of year, unless velo half misalignment seen by DQ
ST dead channels	Frederic Dupertuis	patch 5575	Validated until run 133785 [6th December]
ST charge and noise calibration	Frederic Dupertuis	no change	Validated until run 133785 [6th December]
OT time calibration	Lucia Grillo	patch 5544	expect no further change until end of year
Tracking alignment	Maurizio Martinelli	patch 5581	Validated until run 133785 [6th December]
Rich refractive index	Chris Jones	patch 5586	run 134455 (16th December)
Rich mirror alignment	Chris Jones	patch 5586	run 134455 (16th December)
Rich HPD occupancies	Chris Jones	patch 5586	run 134455 (16th December)
Rich HPD image alignment	Chris Jones	patch 5586	run 134455 (16th December)
Ecal(+Hcal) gain correction	Olivier Deschamps	patch 5583	Validated until run 133785 [6th December]
Calo PID calibration	Olivier Deschamps	calo-20120720	expect no change until end of year
Calo reconstruction	Olivier Deschamps	patch 5583	Validated until run 133785 [6th December]
Calo alignment	Olivier Deschamps	no change wrt 2011	expect no change until end of year
Muon ID calibration	Helder Lopes	no changes	expect no change until end of year

B. Software Validation

B.1 Reco

- Make production step
- Reconstruct one fill
 - ◆ check DQ c.f. previous Reco
 - ◆ check timing
 - ◆ check memory use

B.2 Stripping

- Make production step
- Strip previously reconstructed fill
 - ◆ check timing
 - ◆ check memory use

B.3 Merging.

- Make production step
- Merge previously stripped fill
 - ◆ Check FSRs present on all streams
 - ◆ Check all expected lines present with expected retentions

C. Physics validation (green light for reprocessing)

Can be done within final production workflow, with a defined run range

- Process ~30pb-1 with validated software
 - ◆ Get sign off from all physics groups (max one week)

Reprocessing checklist for Reco14/Stripping20r2 (2013 2.76 TeV pp data)

See [ReprocessingChecklist2013pp](#)

Reprocessing checklist for Reco14 (2010 data)

See [ReprocessingChecklist2010](#)

-- MarcoCattaneo - 16-Nov-2012

This topic: [LHCb > ReprocessingChecklist](#)
Topic revision: r51 - 2014-10-22 - MarcoCattaneo



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