



# Approval of Review of LHC\_IF GRP Data

Item	Description	# of words	Keep	Remove	comment
0	LHC_Beam_Energy (One value getting in Stable Beam)	1	Y		
1	LHC_IntensityBeam1_totalIntensity	1	Y		
2	LHC_IntensityBeam2_totalIntensity	1	Y		
3	LHC_LumAverageBRANB_4L2_meanLuminosity	1		Y	
4	LHC_LumAverageBRANB_4R2_meanLuminosity	1		Y	
5	LHC_MachineMode	1	Y		
6	LHC_BeamMode	1	Y		
7	LHC_Beams_Particle_Type	1	Y		
8	LHC_FillNumber	1	Y		
9	LHC_BunchLengthBeam1_nBunches	1		Y	
10	LHC_BunchLengthBeam1_bunchesLenghts	3564		Y	
11	LHC_BunchLengthBeam1_filledBuckets	3564	Y		Used (RS)
12	LHC_BunchLengthBeam2_nBunches	1		Y	
13	LHC_BunchLengthBeam2_bunchesLenghts	3564		Y	Used (RS)
14	LHC_BunchLengthBeam2_filledBuckets	3564	Y		Used (RS)
15	LHC_RunControl_SafeBeam1	1		Y	
16	LHC_RunControl_SafeBeam2	1		Y	
17	LHC_RunControl_BetaStar	1	Y		
18	LHC_RunControl_ActiveInjectionScheme	1	Y		
19	LHC_RunControl_IP2_Xing_Murad	1		Y	
20	LHC_RunControl_IP2_ALICE_Murad	1		Y	
21	LHC_LumAverageBRANB_4L2_acqMode			Y	
22	LHC_LumAverageBRANB_4L2_meanLuminosityError	1		Y	
23	LHC_LumAverageBRANB_4L2_meanCrossingAngle	1		Y	
24	LHC_LumAverageBRANB_4L2_meanCrossingAngleError	1		Y	
25	LHC_LumAverageBRANB_4R2_acqMode	1		Y	
26	LHC_LumAverageBRANB_4R2_meanLuminosityError	1		Y	
27	LHC_LumAverageBRANB_4R2_meanCrossingAngle	1		Y	
28	LHC_LumAverageBRANB_4R2_meanCrossingAngleError	1		Y	
29	LHC_CollimatorPos_TCLIA_4R2_lvdt_gap_downstream	1	Y		This collimator is still present on beam 1 (side C).
30	LHC_CollimatorPos_TCLIA_4R2_lvdt_gap_upstream	1	Y		
31	LHC_CollimatorPos_TCLIA_4R2_lvdt_left_downstream	1	Y		
32	LHC_CollimatorPos_TCLIA_4R2_lvdt_left_upstream	1	Y		
33	LHC_CollimatorPos_TCLIA_4R2_lvdt_right_downstream	1	Y		
34	LHC_CollimatorPos_TCLIA_4R2_lvdt_right_upstream	1	Y		
35	LHC_CollimatorPos_TCTVB_4L2_lvdt_gap_downstream	1		Y	
36	LHC_CollimatorPos_TCTVB_4L2_lvdt_gap_upstream	1		Y	



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37	LHC_CollimatorPos_TCTVB_4L2_lvdt_left_downstream	1		Y		
38	LHC_CollimatorPos_TCTVB_4L2_lvdt_left_upstream	1		Y		
39	LHC_CollimatorPos_TCTVB_4L2_lvdt_right_downstream			Y		
40	LHC_CollimatorPos_TCTVB_4L2_lvdt_right_upstream	1		Y		
41	LHC_CollimatorPos_TCTVB_4R2_lvdt_gap_downstream			Y		
42	LHC_CollimatorPos_TCTVB_4R2_lvdt_gap_upstream	1		Y		
43	LHC_CollimatorPos_TCTVB_4R2_lvdt_left_downstream			Y		
44	LHC_CollimatorPos_TCTVB_4R2_lvdt_left_upstream	1		Y		
45	LHC_CollimatorPos_TCTVB_4R2_lvdt_right_downstream	1		Y		
46	LHC_CollimatorPos_TCTVB_4R2_lvdt_right_upstream	1		Y		
47	LHC_BeamSizeBeam1_acqMode	1		Y		
48	LHC_BeamSizeBeam1_sigmaH	1		Y		
49	LHC_BeamSizeBeam1_sigmaV	1		Y		
50	LHC_BeamSizeBeam1_emittanceH	1		Y		
51	LHC_BeamSizeBeam1_emittanceV	1		Y		
52	LHC_BeamSizeBeam1_errorSigmaH	1		Y		
53	LHC_BeamSizeBeam1_errorSigmaV	1		Y		
54	LHC_BeamSizeBeam2_acqMode	1		Y		
55	LHC_BeamSizeBeam2_sigmaH	1		Y		
56	LHC_BeamSizeBeam2_sigmaV	1		Y		
57	LHC_BeamSizeBeam2_emittanceH	1		Y		
58	LHC_BeamSizeBeam2_emittanceV	1		Y		
59	LHC_BeamSizeBeam2_errorSigmaH	1		Y		
60	LHC_BeamSizeBeam2_errorSigmaV	1		Y		
61	LHC_CirculatingBunchConfig_Beam1 (few entries at the beam injection)	2808	Y			
62	LHC_CirculatingBunchConfig_Beam2 (few entries at the beam injection)	2808	Y			
63	LHC_BeamIntensityPerBunchBeam1_averageBeamIntensity	1		Y		
64	LHC_BeamIntensityPerBunchBeam2_averageBeamIntensity	1		Y		
65	LHC_BeamLuminosityPerBunchBRANB_4L2_BunchLuminosityError	1		Y		
66	LHC_BeamLuminosityPerBunchBRANB_4R2_BunchLuminosityError	1		Y		
67	LHC_BeamIntensityPerBunchBeam1_Average_BunchIntensities	3564	Y			Used in ESD
68	LHC_BeamIntensityPerBunchBeam2_Average_BunchIntensities	3564	Y			(R.S)
69	LHC_BeamLuminosityPerBunchBRANB_4L2_Average_BunchLuminosity	3564		Y		
70	LHC_BeamLuminosityPerBunchBRANB_4R2_Average_BunchLuminosity	3564		Y		
71	BPTX_deltaT_B1_B2	1	Y			keep
72	BPTX_deltaTRMS_B1_B2	1	Y			keep
73	BPTX_Phase_B1		Y			keep
74	BPTX_PhaseRMS_B1	1	Y			keep
75	BPTX_Phase_Shift_B1	1	Y			keep
76	BPTX_Phase_B2		Y			keep
77	BPTX_PhaseRMS_B2	1	Y			keep
78	BPTX_Phase_Shift_B2	1	Y			keep
79	LHC_Particle_Type_B1	1	Y			keep
80	LHC_Particle_Type_B2	1	Y			keep
81	LHC_Data_Quality_Flag	1	Y			keep

## PROPOSED NEW ITEMS

	ALL_Lumi_Total_Inst (AVG on 2s or more)	1				
	ALL_Lumi_Total_Delivered_5stabBeam (one value at the end of the run)	1				



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ALI_Lumi_Bunch_Inst (VIA IR, averaged on 1 min or more)	3564				add
ALI_BKGD1 (background+collision products, AVG on 2s or more )	1				
ALI_BKGD2 (Halo related background AVG on 2s or more)	1				
ALI_BKGD3 (% of ALI to BIS input, wrt the dump thresh. AVG on 2s or more)	1				

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