

WBS Number	Description	Unit		Prj Mfg	Prj Mfg	Prj	Base Cost (k\$)	US Cont (k\$)	US Cont (%)	Tot US Cost (k\$)
		M&S Cost (\$)	Quantity	M&S (k\$)	Labor (k\$)	EDIA (k\$)				
3	Trigger and Data Acquisition									
3.1	Trigger			4,153	-	2,214	6,367	1,913	30	8,280
3.1.1	CSC Muon Trigger	1,037,764	1	1,038	-	940	1,978	595	30	2,572
3.1.1.1	Muon Port Cards (MPC)	2,887	108	312	-	253	564	166	29	730
3.1.1.1.1	MPC Design	-	1	-	-	100	100	36	36	136
3.1.1.1.1.1	MPC Initial System Design	-	1	-	-	20	20	7	36	27
3.1.1.1.1.2	MPC Prototype Design	-	1	-	-	80	80	29	36	109
3.1.1.1.2	MPC Proto. Construction	21,000	2	42	-	5	47	12	25	59
3.1.1.1.2.1	MPC Proto. Constr. Manage	-	1.0	-	-	5	5	2	36	7
3.1.1.1.2.2	MPC Proto. Cables	1,000	2.0	2	-	-	2	0	24	2
3.1.1.1.2.3	MPC Proto. Components	5,000	2	10	-	-	10	2	24	12
3.1.1.1.2.4	MPC Proto. Boards	5,000	2	10	-	-	10	2	24	12
3.1.1.1.2.5	MPC Proto. Optical Links	714	14	10	-	-	10	2	24	12
3.1.1.1.2.6	MPC Proto. TTC Links	5,000	2	10	-	-	10	2	24	12
3.1.1.1.3	MPC Proto. Test	-	1	-	-	20	20	7	36	27
3.1.1.1.4	MPC ASIC and Board Design	-	1	-	-	80	80	29	36	109
3.1.1.1.5	MPC Active Components	1,795	96	172	-	-	172	41	24	214
3.1.1.1.5.1	MPC FPGAs	300	288	86	-	-	86	21	24	107
3.1.1.1.5.2	MPC JTAG controller	10	96	1	-	-	1	0	24	1
3.1.1.1.5.3	MPC EPROM	10	96	1	-	-	1	0	24	1
3.1.1.1.5.4	MPC Glinks to Track Finder	125	672	84	-	-	84	20	24	104
3.1.1.1.6	MPC Boards	698	96	67	-	23	90	24	27	114
3.1.1.1.6.1	MPC Board Prod. Manage	-	1	-	-	8	8	3	36	10
3.1.1.1.6.2	MPC Board Setup	20	96	2	-	-	2	0	24	2
3.1.1.1.6.3	MPC Board Fabrication	150	96	14	-	-	14	3	24	18
3.1.1.1.6.4	MPC Board Assembly	50	96	5	-	-	5	1	24	6
3.1.1.1.6.5	MPC Connectors-copper	50	96	5	-	-	5	1	24	6
3.1.1.1.6.6	MPC Misc components	30	96	3	-	-	3	1	24	4
3.1.1.1.6.7	MPC Inspection and Test	-	1	-	-	15	15	5	36	20
3.1.1.1.6.8	MPC Motherboard Cables	20	470	9	-	-	9	2	24	12

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3.1.1.1.6.9	MPC TTC optical links	300	96	29	-	-	29	7	24	36
3.1.1.1.7	MPC Installation	-	1	-	-	25	25	9	36	34
3.1.1.1.8	MPC Spares	2,543	12	31	-	-	31	7	24	38
3.1.1.2	Sector Receivers (SR)	3,710	55	204	-	260	464	143	31	607
3.1.1.2.1	SR Design	-	1	-	-	100	100	36	36	136
3.1.1.2.1.1	SR Initial System Design	-	1	-	-	20	20	7	36	27
3.1.1.2.1.2	SR Proto. Design	-	1	-	-	80	80	29	36	109
3.1.1.2.2	SR Proto. Construction	20,000	2	40	-	20	60	17	28	77
3.1.1.2.2.1	SR Proto. Constr. Manage	-	1	-	-	20	20	7	36	27
3.1.1.2.2.2	SR Proto. Components	10,000	2	20	-	-	20	5	24	25
3.1.1.2.2.3	SR Proto. Boards	10,000	2	20	-	-	20	5	24	25
3.1.1.2.3	SR Proto. Test	-	1	-	-	20	20	7	36	27
3.1.1.2.4	SR ASIC and Board Design	-	1	-	-	80	80	29	36	109
3.1.1.2.5	SR Active Components	2,600	48	125	-	-	125	30	24	155
3.1.1.2.6	SR Boards	380	48	18	-	30	48	15	31	63
3.1.1.2.6.1	SR Const. Manage	-	1	-	-	15	15	5	36	20
3.1.1.2.6.2	SR Board Setup	20	48	1	-	-	1	0	24	1
3.1.1.2.6.3	SR Board Fabrication	150	48	7	-	-	7	2	24	9
3.1.1.2.6.4	SR Board Assembly	150	48	7	-	-	7	2	24	9
3.1.1.2.6.5	SR Connectors-copper	30	48	1	-	-	1	0	24	2
3.1.1.2.6.6	SR Misc components	30	48	1	-	-	1	0	24	2
3.1.1.2.6.7	SR Inspection and test	-	1	-	-	15	15	5	36	20
3.1.1.2.7	SR Installation	-	1	-	-	10	10	4	36	14
3.1.1.2.8	SR Spares	3,000	7	21	-	-	21	5	24	26
3.1.1.3	Sector Processors (SP)	3,465	83	288	-	260	548	203	37	751
3.1.1.3.1	SP Design	-	1	-	-	100	100	45	45	145
3.1.1.3.1.1	SP Initial System Design	-	1	-	-	20	20	9	45	29
3.1.1.3.1.2	SP Proto. Design	-	1	-	-	80	80	36	45	116
3.1.1.3.2	SP Proto. Construction	20,000	2	40	-	20	60	21	35	81
3.1.1.3.2.1	SP Proto. Constr. Manage.	-	1	-	-	20	20	9	45	29
3.1.1.3.2.2	SP Proto. Components	10,000	2	20	-	-	20	6	30	26

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		M&S Cost (\$)	Quantity	M&S (k\$)	Labor (k\$)	EDIA (k\$)		Cont (k\$)	Cont (%)	
3.1.1.3.2.3	SP Proto. Boards	10,000	2	20		-	20	6	30	26
3.1.1.3.3	SP Proto. Test	-	1	-		20	20	9	45	29
3.1.1.3.4	SP ASIC and Board Design	-	1	-		80	80	36	45	116
3.1.1.3.5	SP Active Components	2,600	72	187		-	187	56	30	243
3.1.1.3.6	SP Boards	380	72	27	-	30	57	22	38	79
3.1.1.3.6.1	SP Constr. Manage	-	1	-		15	15	7	45	22
3.1.1.3.6.2	SP Board Setup	20	72	1		-	1	0	30	2
3.1.1.3.6.3	SP Board Fabrication	150	72	11		-	11	3	30	14
3.1.1.3.6.4	SP Board Assembly	150	72	11		-	11	3	30	14
3.1.1.3.6.5	SP Connectors-copper	30	72	2		-	2	1	30	3
3.1.1.3.6.6	SP Misc components	30	72	2		-	2	1	30	3
3.1.1.3.6.7	SP Inspection and test	-	1	-		15	15	7	45	22
3.1.1.3.7	SP Installation	-	1	-		10	10	5	45	15
3.1.1.3.8	SP Spares	3,000	11	33		-	33	10	30	43
3.1.1.4	Clock&Control Cards (CCC)	2,983	29	87	-	83	169	33	19	202
3.1.1.4.1	CCC Board Design	-	1	-		50	50	12	23	62
3.1.1.4.2	CCC Active Components	2,600	24	62		-	62	10	16	72
3.1.1.4.3	CCC Boards	380	24	9	-	23	32	7	21	38
3.1.1.4.3.1	CCC Prod. Manage	-	1	-		15	15	4	23	19
3.1.1.4.3.2	CCC Setup and tooling	20	24	0		-	0	0	16	1
3.1.1.4.3.3	CCC Boards	150	24	4		-	4	1	16	4
3.1.1.4.3.4	CCC Board assembly	150	24	4		-	4	1	16	4
3.1.1.4.3.5	CCC Connectors-copper	30	24	1		-	1	0	16	1
3.1.1.4.3.6	CCC Misc components	30	24	1		-	1	0	16	1
3.1.1.4.3.7	CCC Inspection and test	-	1	-		8	8	2	23	9
3.1.1.4.4	CCC Installation	-	1	-		10	10	2	23	12
3.1.1.4.5	CCC Spares	3,000	5	15		-	15	2	16	17
3.1.1.5	Crate Monitor Cards	1,000	26	26	-	-	26	4	16	30
3.1.1.6	Muon Backplanes	2,000	26	52	-	45	97	25	26	122
3.1.1.6.1	Muon Backplane Design	-	25	-		45	45	14	31	59
3.1.1.6.2	Muon Backplane Procure	2,080	25	52		-	52	11	21	63

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		M&S Cost (\$)	Quantity	M&S (k\$)	Labor (k\$)	EDIA (k\$)		Cont (k\$)	Cont (%)	
3.1.1.7	Muon Crates	600	25	15		-	15	2	13	17
3.1.1.8	Muon Power Supplies	2,000	25	50		-	50	7	13	57
3.1.1.9	Muon Tracker Cables	20	240	5		-	5	1	13	5
3.1.1.10	Trigger System Tests	-	1	-		40	40	12	30	52
3.1.1.11	Trigger Project Management	-	1	-	-	-	-	-	-	-
3.1.1.11.1	Tracking & Reporting	-	1	-	-	-	-	-	-	-
3.1.2	Calorimeter Trigger	3,240,740	1	3,115	-	1,274	4,390	1,318	30	5,708
3.1.2.1	Prototypes	190,600	1	65	-	173	238	75	31	313
3.1.2.1.1	Proto. Power Supplies	3,600	2	-	-	-	-	-	-	-
3.1.2.1.1.1	Select Proto. PS	-	1	-	-	-	-	-	-	-
3.1.2.1.1.2	Procure Proto PS	3,600	2	-	-	-	-	-	-	-
3.1.2.1.2	Proto. Crate	600	2	-	-	-	-	-	-	-
3.1.2.1.2.1	Design Proto. Crate	-	1.0	-	-	-	-	-	-	-
3.1.2.1.2.2	Procure Proto. Crate	600	2.0	-	-	-	-	-	-	-
3.1.2.1.2.3	Test Proto Crate	-	1	-	-	-	-	-	-	-
3.1.2.1.3	Proto. Backplane	5,910	2	-	-	-	-	-	-	-
3.1.2.1.3.1	Design Proto. Backplane	-	1	-	-	-	-	-	-	-
3.1.2.1.3.2	Order Proto. Backplane	-	1	-	-	-	-	-	-	-
3.1.2.1.3.3	Purchase Proto. Backplane	5,910	2	-	-	-	-	-	-	-
3.1.2.1.3.4	Test Proto. Backplane	-	1	-	-	-	-	-	-	-
3.1.2.1.4	Proto. Receiver Card	8,870	2	-	-	16	16	6	36	22
3.1.2.1.4.1	Design Proto. RC	-	1	-	-	-	-	-	-	-
3.1.2.1.4.2	Order Proto. RC	-	1	-	-	-	-	-	-	-
3.1.2.1.4.3	Purchase Proto. RC	8,870	2	-	-	-	-	-	-	-
3.1.2.1.4.4	Test Proto RC/R&D	-	1	-	-	-	-	-	-	-
3.1.2.1.4.5	Test Proto RC/Proj	-	1	-	-	16	16	6	36	22
3.1.2.1.5	ASIC Devel. (EID,Sort)	80,000	1	-	-	-	-	-	-	-
3.1.2.1.5.1	EID, Sort ASIC Proto Des.	-	1	-	-	-	-	-	-	-
3.1.2.1.5.2	EID ASIC Proto. Order/R&D	-	1	-	-	-	-	-	-	-
3.1.2.1.5.3	EID ASIC Proto Order/Proj.	-	1	-	-	-	-	-	-	-
3.1.2.1.5.4	EID ASIC Proto. Purchase/R&D	80,000	1	-	-	-	-	-	-	-

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		M&S Cost (\$)	Quantity							
3.1.2.1.5.5	EID ASIC Proto. Purchase/Proj.	-	1	-	-	-	-	-	-	-
3.1.2.1.6	Proto. Electron ID Card	3,690	2	-	-	21	21	8	36	29
3.1.2.1.6.1	Design Proto. EIDC	-	1	-	-	-	-	-	-	-
3.1.2.1.6.2	Order Proto. EIDC/R&D	-	1	-	-	-	-	-	-	-
3.1.2.1.6.3	Order Proto. EIDC/Proj.	-	1	-	-	3	3	1	36	5
3.1.2.1.6.4	Purchase Proto. EIDC/R&D	3,690	2	-	-	-	-	-	-	-
3.1.2.1.6.5	Purchase Proto. EIDC/Proj.	-	1	-	-	-	-	-	-	-
3.1.2.1.6.6	Test Proto EIDC	-	1	-	-	18	18	6	36	24
3.1.2.1.7	ASIC Devel. (BScan,Synch)	50,000	1	50	-	-	50	12	24	62
3.1.2.1.7.1	BScan,Synch ASIC Proto Des.	-	1	-	-	-	-	-	-	-
3.1.2.1.7.2	BScan ASIC Proto. Order	-	1	-	-	-	-	-	-	-
3.1.2.1.7.3	BScan ASIC Proto. Purchase	50,000	1	50	-	-	50	12	24	62
3.1.2.1.8	Proto. Jet Summary Card	4,670	2	9	-	99	108	38	35	146
3.1.2.1.8.1	Design Proto. JSC	-	1	-	-	69	69	25	36	93
3.1.2.1.8.2	Order Proto. JSC	-	1	-	-	7	7	3	36	10
3.1.2.1.8.3	Purchase Proto. JSC	4,670	2	9	-	-	9	2	24	12
3.1.2.1.8.4	Test Proto JSC	-	1	-	-	23	23	8	36	31
3.1.2.1.9	Proto. Clock & Control Card	2,960	2	6	-	37	43	12	27	54
3.1.2.1.9.1	Design Proto. CCC	-	1	-	-	26	26	8	29	34
3.1.2.1.9.2	Order Proto. CCC	-	1	-	-	7	7	2	29	10
3.1.2.1.9.3	Purchase Proto. CCC	2,960	2	6	-	-	6	1	19	7
3.1.2.1.9.4	Test Proto CCC	-	1	-	-	3	3	1	29	4
3.1.2.1.10	Proto. Crate Monitor Card	-	1	-	-	-	-	-	-	-
3.1.2.1.10.1	Procure Proto. CMC	-	1	-	-	-	-	-	-	-
3.1.2.2	Preproduction ASICs	360,000	1	360	-	269	629	179	29	808
3.1.2.2.1	Electron ID ASIC (GaAs)	80,000	1	80	-	58	138	40	29	178
3.1.2.2.1.1	EID ASIC Design	-	1	-	-	53	53	19	36	72
3.1.2.2.1.2	EID ASIC Order	-	1	-	-	5	5	2	36	7
3.1.2.2.1.3	EID ASIC Purchase	80,000	1	80	-	-	80	19	24	99
3.1.2.2.2	Adder ASIC (GaAs)	50,000	1	50	-	47	97	25	26	122
3.1.2.2.2.1	Adder ASIC Design	-	1	-	-	42	42	13	31	55

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3.1.2.2.2.2	Adder ASIC Order	-	1	-	-	5	5	2	31	7
3.1.2.2.2.3	Adder ASIC Purchase	50,000	1	50	-	-	50	10	21	60
3.1.2.2.3	Sort ASIC (GaAs)	80,000	1	80	-	47	127	36	28	164
3.1.2.2.3.1	Sort ASIC Design	-	1	-	-	42	42	15	36	57
3.1.2.2.3.2	Sort ASIC Order	-	1	-	-	5	5	2	36	7
3.1.2.2.3.3	Sort ASIC Purchase	80,000	1	80	-	-	80	19	24	99
3.1.2.2.4	Synch ASIC (BiCMOS)	100,000	1	100	-	59	159	45	28	204
3.1.2.2.4.1	Synch ASIC Design	-	1	-	-	53	53	19	36	72
3.1.2.2.4.2	Synch ASIC Order	-	1	-	-	6	6	2	36	9
3.1.2.2.4.3	Synch ASIC Purchase	100,000	1	100	-	-	100	24	24	124
3.1.2.2.5	Boundary Scan ASIC (CMOS)	50,000	1	50	-	57	107	33	30	140
3.1.2.2.5.1	Boundary Scan ASIC Design	-	1	-	-	53	53	19	36	72
3.1.2.2.5.2	Boundary Scan ASIC Order	-	1	-	-	4	4	2	36	6
3.1.2.2.5.3	Boundary Scan ASIC Purchase	50,000	1	50	-	-	50	12	24	62
3.1.2.3	Test Facilities	60,000	1	60	-	18	78	21	27	99
3.1.2.3.1	Design Test Facil.	-	1	-	-	13	13	5	36	17
3.1.2.3.2	Procure Test Facil.	60,000	1	60	-	-	60	14	24	74
3.1.2.3.3	Assemble Test Facil.	-	1	-	-	5	5	2	36	7
3.1.2.4	Power Supplies	3,600	22	79	-	5	84	11	14	96
3.1.2.4.1	Select Power Supplies	-	1	-	-	3	3	1	20	3
3.1.2.4.2	Power Supply Procure	3,600	22	79	-	3	82	11	13	93
3.1.2.4.2.1	PS Procure Manage	-	1	-	-	3	3	1	20	3
3.1.2.4.2.2	Purchase Power Supplies	3,600	20	72	-	-	72	10	13	82
3.1.2.4.2.3	2 PS Spares	3,600	2	7	-	-	7	1	13	8
3.1.2.5	Crates	600	22	13	-	24	37	6	17	44
3.1.2.5.1	Design Crate	-	1	-	-	18	18	4	20	21
3.1.2.5.2	Procure Crates	600	22	13	-	3	16	2	14	18
3.1.2.5.2.1	Crate Procure Manage	-	1	-	-	3	3	1	20	3
3.1.2.5.2.2	Purchase Crates	600	20	12	-	-	12	2	13	14
3.1.2.5.2.3	2 Crate Spares	600	2	1	-	-	1	0	13	1
3.1.2.5.3	Test Crates	-	1	-	-	4	4	1	20	4

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3.1.2.6	Backplane	5,910	22	130	-	73	203	62	31	266
3.1.2.6.1	Design Backplane	-	1	-	-	53	53	21	39	73
3.1.2.6.2	Backplane Procure	5,910	22	130	-	15	145	40	27	185
3.1.2.6.2.1	Bkpl Procure Manage	-	1	-	-	15	15	6	39	21
3.1.2.6.2.2	Bkpl Parts (Connectors)	4,610	20	92	-	-	92	24	26	116
3.1.2.6.2.3	Bkpl Board	1,000	20	20	-	-	20	5	26	25
3.1.2.6.2.4	Bkpl Assembly	300	20	6	-	-	6	2	26	8
3.1.2.6.2.5	2 Bkpl Spares	5,910	2	12	-	-	12	3	26	15
3.1.2.6.3	Test Bkpl	-	1	-	-	5	5	2	39	8
3.1.2.7	Clock & Control Card	2,960	22	65	-	76	142	37	26	179
3.1.2.7.1	Design CCC	-	1	-	-	53	53	16	31	69
3.1.2.7.2	CCC Procure	2,960	22	65	-	16	81	19	23	100
3.1.2.7.2.1	CCC Procure Manage	-	1	-	-	16	16	5	31	21
3.1.2.7.2.2	CCC Parts	1,960	20	39	-	-	39	8	21	47
3.1.2.7.2.3	CCC Board	600	20	12	-	-	12	2	21	14
3.1.2.7.2.4	CCC Assembly	400	20	8	-	-	8	2	21	10
3.1.2.7.2.5	2 CCC Spares	2,960	2	6	-	-	6	1	21	7
3.1.2.7.3	Test CCC	-	1	-	-	8	8	2	31	10
3.1.2.8	Receiver Card	8,870	176	1,561	-	135	1,696	529	31	2,226
3.1.2.8.1	Design RC	-	1	-	-	63	63	29	45	92
3.1.2.8.2	RC Procure	8,870	176	1,561	-	31	1,592	482	30	2,074
3.1.2.8.2.1	RC Procure Manage	-	1	-	-	31	31	14	45	44
3.1.2.8.2.2	RC Parts	7,420	160	1,187	-	-	1,187	356	30	1,543
3.1.2.8.2.3	RC Board	800	160	128	-	-	128	38	30	166
3.1.2.8.2.4	RC Assembly	650	160	104	-	-	104	31	30	135
3.1.2.8.2.5	16 RC Spares	8,870	16	142	-	-	142	43	30	184
3.1.2.8.3	Test RC	-	1	-	-	41	41	19	45	60
3.1.2.9	Electron Isolation Card	3,690	176	649	-	109	758	244	32	1,002
3.1.2.9.1	Design EIC	-	1	-	-	53	53	24	45	77
3.1.2.9.2	EIC Procure	3,690	176	649	-	21	670	204	30	875
3.1.2.9.2.1	EIC Procure Manage	-	1	-	-	21	21	9	45	30

WBS Number	Description	Unit		Prj Mfg	Prj Mfg	Prj	Base Cost (k\$)	US	US	Tot US Cost (k\$)
		M&S Cost (\$)	Quantity	M&S (k\$)	Labor (k\$)	EDIA (k\$)		Cont (k\$)	Cont (%)	
3.1.2.9.2.2	EIC Parts	2,990	160	478	-	-	478	144	30	622
3.1.2.9.2.3	EIC Board	400	160	64	-	-	64	19	30	83
3.1.2.9.2.4	EIC Assembly	300	160	48	-	-	48	14	30	62
3.1.2.9.2.5	16 EIC Spares	3,690	16	59	-	-	59	18	30	77
3.1.2.9.3	Test EIC	-	1	-	-	35	35	16	45	51
3.1.2.10	Jet Summary Card	4,670	22	103	-	76	179	52	29	231
3.1.2.10.1	Design JSC	-	1	-	-	53	53	19	36	72
3.1.2.10.2	JSC Procure	4,670	22	103	-	16	119	30	26	149
3.1.2.10.2.1	JSC Procure Manage	-	1	-	-	16	16	6	36	22
3.1.2.10.2.2	JSC Parts	3,570	20	71	-	-	71	17	24	89
3.1.2.10.2.3	JSC Board	600	20	12	-	-	12	3	24	15
3.1.2.10.2.4	JSC Assembly	500	20	10	-	-	10	2	24	12
3.1.2.10.2.5	2 JSC Spares	4,670	2	9	-	-	9	2	24	12
3.1.2.10.3	Test JSC	-	7300	-	-	8	8	3	36	11
3.1.2.11	Cables	7,300	1	7	-	-	7	1	13	8
3.1.2.12	DAQ Processor	-	1	-	-	-	-	-	-	-
3.1.2.13	Crate Monitor Card	-	1	-	-	-	-	-	-	-
3.1.2.13.1	CMC Procure	-	1	-	-	-	-	-	-	-
3.1.2.13.2	2 CMC Spares	-	1	-	-	-	-	-	-	-
3.1.2.14	Trigger Tests	22,000	1	22	-	315	337	99	29	436
3.1.2.14.1	Trigger Subsystem Tests	-	1	-	-	211	211	63	30	275
3.1.2.14.2	Trigger System Installation	22,000	1	22	-	104	126	36	28	161
3.1.2.14.2.1	Shipping	22,000	1	22	-	-	22	4	20	26
3.1.2.14.2.2	Remote Site Commission	-	1	-	-	21	21	6	30	27
3.1.2.14.2.3	Installation	-	1	-	-	83	83	25	30	108
3.1.2.15	Trigger Project Management	-	-	-	-	-	-	-	-	-
3.1.2.15.1	Tracking & Reporting	-	-	-	-	-	-	-	-	-