

ID	WBS	Task Name	Base Cost	1996		1997		1998		1999		2000		2001		2002		2003		2004			
				Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
1	3.1.2	Calorimeter Trigger	\$4,389,576	[Gantt bar from Mar 1996 to Apr 2004]																			
4	3.1.2.1	Prototypes	\$238,071	[Gantt bar from Mar 1996 to 27 Apr 1999]																			
5	3.1.2.1.1	Proto. Power Supplies	\$0	[Gantt bar from Mar 1996 to 6 Jun 1996]																			
6	3.1.2.1.1.1	Select Proto. PS	\$0	[Task bar from Mar 1996 to 28 Mar 1996]																			
7	3.1.2.1.1.2	Procure Proto PS	\$0	[Task bar from Mar 1996 to 6 Jun 1996]																			
8	3.1.2.1.2	Proto. Crate	\$0	[Gantt bar from Mar 1996 to 13 Jun 1996]																			
9	3.1.2.1.2.1	Design Proto. Crate	\$0	[Task bar from Mar 1996 to 28 Mar 1996]																			
10	3.1.2.1.2.2	Procure Proto. Crate	\$0	[Task bar from Mar 1996 to 6 Jun 1996]																			
11	3.1.2.1.2.3	Test Proto Crate	\$0	[Task bar from 7 Jun 1996 to 13 Jun 1996]																			
12	3.1.2.1.3	Proto. Backplane	\$0	[Gantt bar from Mar 1996 to 6 Jun 1996]																			
13	3.1.2.1.3.1	Design Proto. Backplane	\$0	[Task bar from Mar 1996 to 12 Sep 1996]																			
14	3.1.2.1.3.2	Order Proto. Backplane	\$0	[Task bar from 13 Sep 1996 to 28 Mar 1997]																			
15	3.1.2.1.3.3	Purchase Proto. Backpla	\$0	[Task bar from 13 Sep 1996 to 28 Mar 1997]																			
16	3.1.2.1.3.4	Test Proto. Backplane	\$0	[Task bar from 31 Mar 1997 to 6 Jun 1997]																			
17	3.1.2.1.4	Proto. Receiver Card	\$15,950	[Gantt bar from 13 Sep 1996 to 7 Nov 1997]																			
18	3.1.2.1.4.1	Design Proto. RC	\$0	[Task bar from 13 Sep 1996 to 25 Apr 1997]																			
19	3.1.2.1.4.2	Order Proto. RC	\$0	[Task bar from 28 Apr 1997 to 12 Sep 1997]																			
20	3.1.2.1.4.3	Purchase Proto. RC	\$0	[Task bar from 28 Apr 1997 to 12 Sep 1997]																			
21	3.1.2.1.4.4	Test Proto RC/R&D	\$0	[Task bar from 15 Sep 1997 to 30 Sep 1997]																			
22	3.1.2.1.4.5	Test Proto RC/Proj	\$15,950	[Task bar from 1 Oct 1997 to 7 Nov 1997]																			
23	3.1.2.1.5	ASIC Devel. (EID,Sort)	\$0	[Gantt bar from 22 Nov 1997 to 19 Jan 1998]																			
24	3.1.2.1.5.1	EID, Sort ASIC Proto De:	\$0	[Task bar from 22 Nov 1997 to 12 Sep 1998]																			
25	3.1.2.1.5.2	EID ASIC Proto. Order/R	\$0	[Task bar from 15 Sep 1998 to 30 Sep 1998]																			

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				Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
26	3.1.2.1.5.3	EID ASIC Proto Order/Pr	\$0			1 Oct		19 Jan													
27	3.1.2.1.5.4	EID ASIC Proto. Purchas	\$0			15 Sep		30 Sep													
28	3.1.2.1.5.5	EID ASIC Proto. Purchas	\$0			1 Oct		19 Jan													
29	3.1.2.1.6	Proto. Electron ID Card	\$21,105			28 Apr		19 Jan													
30	3.1.2.1.6.1	Design Proto. EIDC	\$0			28 Apr		8 Aug													
31	3.1.2.1.6.2	Order Proto. EIDC/R&D	\$0			11 Aug		30 Sep													
32	3.1.2.1.6.3	Order Proto. EIDC/Proj.	\$3,429			1 Oct		21 Nov													
33	3.1.2.1.6.4	Purchase Proto. EIDC/R&D	\$0			11 Aug		30 Sep													
34	3.1.2.1.6.5	Purchase Proto. EIDC/Pr	\$0			1 Oct		21 Nov													
35	3.1.2.1.6.6	Test Proto EIDC	\$17,676			24 Nov		19 Jan													
36	3.1.2.1.7	ASIC Devel. (BScan,Synch)	\$50,000			15 Sep		21 Dec													
37	3.1.2.1.7.1	BScan,Synch ASIC Protc	\$0			15 Sep		31 Aug													
38	3.1.2.1.7.2	BScan ASIC Proto. Orde	\$0					1 Sep		21 Dec											
39	3.1.2.1.7.3	BScan ASIC Proto. Purcl	\$50,000					1 Sep		21 Dec											
40	3.1.2.1.8	Proto. Jet Summary Card	\$108,262			20 Jan		16 Nov													
41	3.1.2.1.8.1	Design Proto. JSC	\$68,640			20 Jan		8 Jun													
42	3.1.2.1.8.2	Order Proto. JSC	\$7,434					9 Jun		21 Sep											
43	3.1.2.1.8.3	Purchase Proto. JSC	\$9,340					9 Jun		21 Sep											
44	3.1.2.1.8.4	Test Proto JSC	\$22,848					22 Sep		16 Nov											
45	3.1.2.1.9	Proto. Clock & Control Carr	\$42,754			9 Jun		16 Feb													
46	3.1.2.1.9.1	Design Proto. CCC	\$26,400			9 Jun		17 Aug													
47	3.1.2.1.9.2	Order Proto. CCC	\$7,434					6 Oct		2 Feb											
48	3.1.2.1.9.3	Purchase Proto. CCC	\$5,920					6 Oct		2 Feb											

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				Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
49	3.1.2.1.9.4	Test Proto CCC	\$3,000							3 Feb	16 Feb										
50	3.1.2.1.10	Proto. Crate Monitor Card	\$0							17 Feb	27 Apr										
51	3.1.2.1.10.1	Procure Proto. CMC	\$0							17 Feb	27 Apr										
57	3.1.2.2	Preproduction ASICs	\$628,646							17 Nov											24 Jan
58	3.1.2.2.1	Electron ID ASIC (GaAs)	\$137,869							17 Nov											10 Aug
59	3.1.2.2.1.1	EID ASIC Design	\$52,800							17 Nov											20 Apr
60	3.1.2.2.1.2	EID ASIC Order	\$5,069							21 Apr											10 Aug
61	3.1.2.2.1.3	EID ASIC Purchase	\$80,000							21 Apr											10 Aug
62	3.1.2.2.2	Adder ASIC (GaAs)	\$97,309							21 Apr											30 Nov
63	3.1.2.2.2.1	Adder ASIC Design	\$42,240							21 Apr											10 Aug
64	3.1.2.2.2.2	Adder ASIC Order	\$5,069							11 Aug											30 Nov
65	3.1.2.2.2.3	Adder ASIC Purchase	\$50,000							11 Aug											30 Nov
66	3.1.2.2.3	Sort ASIC (GaAs)	\$127,309							11 Aug											5 Apr
67	3.1.2.2.3.1	Sort ASIC Design	\$42,240							11 Aug											30 Nov
68	3.1.2.2.3.2	Sort ASIC Order	\$5,069							1 Dec											5 Apr
69	3.1.2.2.3.3	Sort ASIC Purchase	\$80,000							1 Dec											5 Apr
70	3.1.2.2.4	Synch ASIC (BiCMOS)	\$159,136							1 Dec											20 Sep
71	3.1.2.2.4.1	Synch ASIC Design	\$52,800							1 Dec											3 May
72	3.1.2.2.4.2	Synch ASIC Order	\$6,336							4 May											20 Sep
73	3.1.2.2.4.3	Synch ASIC Purchase	\$100,000							4 May											20 Sep
74	3.1.2.2.5	Boundary Scan ASIC (CMO	\$107,024							4 May											24 Jan
75	3.1.2.2.5.1	Boundary Scan ASIC De	\$52,800							4 May											20 Sep
76	3.1.2.2.5.2	Boundary Scan ASIC Orr	\$4,224																		21 Sep 24 Jan

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				Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
77	3.1.2.2.5.3	Boundary Scan ASIC Pu	\$50,000									21 Sep	24 Jan								
80	3.1.2.3	Test Facilities	\$78,000									21 Sep	4 Apr								
81	3.1.2.3.1	Design Test Facil.	\$12,600									21 Sep	10 Jan								
82	3.1.2.3.2	Procure Test Facil.	\$60,000									11 Jan	21 Feb								
83	3.1.2.3.3	Assemble Test Facil.	\$5,400									22 Feb	4 Apr								
84	3.1.2.4	Power Supplies	\$84,374									4 May	20 Sep								
85	3.1.2.4.1	Select Power Supplies	\$2,640									4 May	31 May								
86	3.1.2.4.2	Power Supply Procure	\$81,734									1 Jun	20 Sep								
87	3.1.2.4.2.1	PS Procure Manage	\$2,534									1 Jun	20 Sep								
88	3.1.2.4.2.2	Purchase Power Supplie	\$72,000									1 Jun	20 Sep								
89	3.1.2.4.2.3	2 PS Spares	\$7,200									1 Jun	20 Sep								
90	3.1.2.5	Crates	\$37,094									21 Sep	18 Apr								
91	3.1.2.5.1	Design Crate	\$17,760									21 Sep	29 Nov								
92	3.1.2.5.2	Procure Crates	\$15,734									30 Nov	4 Apr								
93	3.1.2.5.2.1	Crate Procure Manage	\$2,534									30 Nov	4 Apr								
94	3.1.2.5.2.2	Purchase Crates	\$12,000									30 Nov	4 Apr								
95	3.1.2.5.2.3	2 Crate Spares	\$1,200									30 Nov	4 Apr								
96	3.1.2.5.3	Test Crates	\$3,600									5 Apr	18 Apr								
98	3.1.2.6	Backplane	\$203,388									21 Sep	19 Dec								
99	3.1.2.6.1	Design Backplane	\$52,800									21 Sep	21 Feb								
100	3.1.2.6.2	Backplane Procure	\$145,188									22 Feb	28 Nov								
101	3.1.2.6.2.1	Bkpl Procure Manage	\$15,168									22 Feb	28 Nov								
102	3.1.2.6.2.2	Bkpl Parts (Connectors)	\$92,200									22 Feb	5 Sep								

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				Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
103	3.1.2.6.2.3	Bkpl Board	\$20,000											14 Jun	5 Sep						
104	3.1.2.6.2.4	Bkpl Assembly	\$6,000											6 Sep	28 Nov						
105	3.1.2.6.2.5	2 Bkpl Spares	\$11,820											6 Sep	28 Nov						
106	3.1.2.6.3	Test Bkpl	\$5,400											29 Nov	19 Dec						
109	3.1.2.7	Clock & Control Card	\$141,536											22 Feb	30 May						
110	3.1.2.7.1	Design CCC	\$52,800											22 Feb	11 Jul						
111	3.1.2.7.2	CCC Procure	\$81,008											12 Jul	2 May						
112	3.1.2.7.2.1	CCC Procure Manage	\$15,888											12 Jul	2 May						
113	3.1.2.7.2.2	CCC Parts	\$39,200											12 Jul	7 Feb						
114	3.1.2.7.2.3	CCC Board	\$12,000											1 Nov	7 Feb						
115	3.1.2.7.2.4	CCC Assembly	\$8,000											8 Feb	2 May						
116	3.1.2.7.2.5	2 CCC Spares	\$5,920											8 Feb	2 May						
117	3.1.2.7.3	Test CCC	\$7,728											3 May	30 May						
120	3.1.2.8	Receiver Card	\$1,696,437											12 Jul	18 Apr						
121	3.1.2.8.1	Design RC	\$63,360											12 Jul	10 Jan						
122	3.1.2.8.2	RC Procure	\$1,591,797											11 Jan	14 Nov						
123	3.1.2.8.2.1	RC Procure Manage	\$30,677											11 Jan	14 Nov						
124	3.1.2.8.2.2	RC Parts	\$1,187,200											11 Jan	25 Jul						
125	3.1.2.8.2.3	RC Board	\$128,000											8 Mar	25 Jul						
126	3.1.2.8.2.4	RC Assembly	\$104,000											26 Jul	14 Nov						
127	3.1.2.8.2.5	16 RC Spares	\$141,920											26 Jul	14 Nov						
128	3.1.2.8.3	Test RC	\$41,280											15 Nov	18 Apr						
129	3.1.2.9	Electron Isolation Card	\$758,453											11 Jan	22 Aug						

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				Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
130	3.1.2.9.1	Design EIC	\$52,800													11 Jan	30 May				
131	3.1.2.9.2	EIC Procure	\$670,402													31 May				18 Apr	
132	3.1.2.9.2.1	EIC Procure Manage	\$20,962													31 May				18 Apr	
133	3.1.2.9.2.2	EIC Parts	\$478,400													31 May				12 Dec	
134	3.1.2.9.2.3	EIC Board	\$64,000													23 Aug				12 Dec	
135	3.1.2.9.2.4	EIC Assembly	\$48,000													13 Dec				18 Apr	
136	3.1.2.9.2.5	16 EIC Spares	\$59,040													13 Dec				18 Apr	
137	3.1.2.9.3	Test EIC	\$35,251																	21 Apr	22 Aug
138	3.1.2.10	Jet Summary Card	\$179,156													31 May				19 Sep	
139	3.1.2.10.1	Design JSC	\$52,800													31 May				17 Oct	
140	3.1.2.10.2	JSC Procure	\$118,628													18 Oct				8 Aug	
141	3.1.2.10.2.1	JSC Procure Manage	\$15,888													18 Oct				8 Aug	
142	3.1.2.10.2.2	JSC Parts	\$71,400													18 Oct				16 May	
143	3.1.2.10.2.3	JSC Board	\$12,000													24 Feb				16 May	
144	3.1.2.10.2.4	JSC Assembly	\$10,000													19 May				8 Aug	
145	3.1.2.10.2.5	2 JSC Spares	\$9,340													19 May				8 Aug	
146	3.1.2.10.3	Test JSC	\$7,728																	25 Aug	19 Sep
151	3.1.2.11	Cables	\$7,300																	24 Mar	8 Aug
152	3.1.2.12	DAQ Processor	\$0													31 May				17 Oct	
153	3.1.2.13	Crate Monitor Card	\$0													31 May				17 Oct	
154	3.1.2.13.1	CMC Procure	\$0													31 May				17 Oct	
155	3.1.2.13.2	2 CMC Spares	\$0													31 May				17 Oct	
156	3.1.2.14	Trigger Tests	\$337,120																	15 Nov	

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				Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
157	3.1.2.14.1	Trigger Subsystem Tests	\$211,200															15 Nov			
158	3.1.2.14.2	Trigger System Installation	\$125,920															11 Aug			
159	3.1.2.14.2.1	Shipping	\$22,000															11 Aug			
160	3.1.2.14.2.2	Remote Site Commissior	\$21,120															30 Jun			
161	3.1.2.14.2.3	Installation	\$82,800															22 Sep			
164	3.1.2.15	Trigger Project Management	\$0															20 Jan			
165	3.1.2.15.1	Tracking & Reporting	\$0															20 Jan			