Shutdown 2000 version 19.2.2001

Project Start: Mon 1/1/01
Project Finish: Mon 7/2/01

Tasks

1	2	3	4	5	6	7
1						
2	Begin of year 2001	0 dys	Mon 1/1/01	Mon 1/1/01		0%
3						
4						
5	**Reinstall concrete SL partly**	4 dys	Tue 1/2/01	Fri 1/5/01		0%
6	Transport concrete to hall	4 dys	Tue 1/2/01	Fri 1/5/01	Crane	0%
7	Install concrete in the tunnel	2 dys	Tue 1/2/01	Wed 1/3/01	Crane	0%
8	Install inner wall and roof partly	2 dys	Thu 1/4/01	Fri 1/5/01	Crane	0%
9						
10	**HES work**	15 dys	Mon 1/8/01	Fri 1/26/01		0%
11	Pull skis	15 dys	Mon 1/8/01	Fri 1/26/01	Crane	0%
12						
13	**Recable outer RMUON**	7 dys	Mon 1/8/01	Tue 1/16/01		0%
14	Recable chambers	5 dys	Mon 1/8/01	Fri 1/12/01		0%
15	Reinstall roof blocks south and north	1 dy	Mon 1/15/01	Mon 1/15/01	Crane	0%
16	Remove scaffolds	1 dy	Tue 1/16/01	Tue 1/16/01		0%
17						
18	**Install cryo transfer line (fixed date)**	5 dys	Mon 1/8/01	Fri 1/12/01		0%
19	Install scaffold	1 dy	Mon 1/8/01	Mon 1/8/01		0%
20	Install transfer line with T-branch	3 dys	Mon 1/8/01	Wed 1/10/01	Crane	0%
21	X-ray welds	1 dy	Thu 1/11/01	Thu 1/11/01		0%

22	Tests	1 dy	Fri 1/12/01	Fri 1/12/01		0%
23						
24	Install MVD cooling pipes	5 dys	Mon 1/8/01	Fri 1/12/01		0%
25						
26	**Move veto wall HV system to rucksack**	9 dys	Wed 1/17/01	Mon 1/29/01		0%
27	Disconnect cables	1 dy	Wed 1/17/01	Wed 1/17/01		0%
28	Move crates to rucksack	2 dys	Thu 1/18/01	Fri 1/19/01		0%
29	Remove empty racks	1 dy	Mon 1/22/01	Mon 1/22/01	Crane	0%
30	Recable HV crates	5 dys	Tue 1/23/01	Mon 1/29/01	ABB	0%
31						
32	Install cable trays for MVD	3 dys	Tue 1/30/01	Thu 2/1/01		0%
33						
34	**Install additional STT cables (fixed date)**	4 dys	Tue 2/20/01	Fri 2/23/01		0%
35	Insert cables into front trough	2 dys	Tue 2/20/01	Wed 2/21/01		0%
36	Route cables on the bottom yoke	2 dys	Thu 2/22/01	Fri 2/23/01		0%
37						
38	**Install subcooler box for GO/GG (fixed date)**	12 dys	Tue 2/20/01	Wed 3/7/01		0%
39	Install box on support	1 dy	Tue 2/20/01	Tue 2/20/01	Crane	0%
40	Install control and valve panels	1 dy	Wed 2/21/01	Wed 2/21/01	Crane	0%
41	Make vacuum and electrical connections	10 dys	Wed 2/21/01	Tue 3/6/01		0%
42	Perform tests	1 dy	Wed 3/7/01	Wed 3/7/01		0%
43						
44	**HES work**	9 dys	Thu 2/22/01	Tue 3/6/01		0%
45	Reinsert skis	9 dys	Thu 2/22/01	Tue 3/6/01		0%
46						
47	**Reinstall inner concrete SR**	1 dy	Tue 3/6/01	Tue 3/6/01		0%
48	Transport concrete blocks to hall	1 dy	Tue 3/6/01	Tue 3/6/01	Crane	0%
49	Reinstall inner parallel wall	1 dy	Tue 3/6/01	Tue 3/6/01	Crane	0%
50						
51	**Reinstall remaining concrete SR**	4 dys	Tue 3/6/01	Fri 3/9/01		0%
52	Transport concrete blocks to hall	2 dys	Tue 3/6/01	Wed 3/7/01	Crane	0%
53	Reinstall outer parallel wall	1 dy	Thu 3/8/01	Thu 3/8/01	Crane	0%
54	Reinstall roof	1 dy	Fri 3/9/01	Fri 3/9/01	Crane	0%
55						
56	**HES Work**	4 dys	Mon 3/12/01	Thu 3/15/01		0%
57	Reinstall skis	4 dys	Mon 3/12/01	Thu 3/15/01		0%

58						
59	**Reinstall compressor**	2 dys	Fri 3/9/01	Mon 3/12/01		0%
60	Reconnect pipes	1 dy	Fri 3/9/01	Fri 3/9/01		0%
61	Reinstall and connect compressor	1 dy	Mon 3/12/01	Mon 3/12/01	Crane	0%
62						
63	**Prepare survey of MVD and beam pipe**	3 dys	Mon 3/5/01	Wed 3/7/01		0%
64	Install survey equipment	1 dy	Mon 3/5/01	Mon 3/5/01		0%
65	Install yellow frames front/rear	1 dy	Mon 3/5/01	Mon 3/5/01	Crane	0%
66	Modify CTD petals	3 dys	Mon 3/5/01	Wed 3/7/01		0%
67	Align yellow frames and rails	2 dys	Tue 3/6/01	Wed 3/7/01		0%
68						
69	**Prepare MVD installation**	10 dys	Thu 3/8/01	Wed 3/21/01		0%
70	Setting up laser Alignment system	3 dys	Thu 3/8/01	Mon 3/12/01		0%
71	Survey sensor ears w.r.t. CTD	4 dys	Tue 3/13/01	Fri 3/16/01		0%
72	Checking installation hardware	3 dys	Mon 3/19/01	Wed 3/21/01		0%
73						
74	Milestone : MVD in ZEUS hall	0 dys	Mon 3/26/01	Mon 3/26/01		0%
75						
76	**Install MVD (fixed date)**	16 dys	Mon 3/26/01	Wed 4/18/01		0%
77	Transport MVD to ZEUS hall	1 dy	Mon 3/26/01	Mon 3/26/01	Crane	0%
78	MVD installation	4 dys	Tue 3/27/01	Fri 3/30/01	Crane	0%
79	Remove crocodile jaws	1 dy	Mon 4/2/01	Mon 4/2/01		0%
80	Complete cabling at CTD	3 dys	Tue 4/3/01	Thu 4/5/01		0%
81	Connect cooling water, dry air	1 dy	Fri 4/6/01	Fri 4/6/01		0%
82	Survey MVD w.r.t. CTD	4 dys	Mon 4/9/01	Thu 4/12/01		0%
83	Test every module	3 dys	Fri 4/6/01	Tue 4/10/01		0%
84	Check out LAS	4 dys	Wed 4/11/01	Wed 4/18/01		0%
85	Install patch box	5 dys	Mon 4/2/01	Fri 4/6/01	Crane	0%
86	Move electronics platform to hall	1 dy	Mon 4/9/01	Mon 4/9/01	Crane	0%
87	Connect patch boxes and electronics	5 dys	Tue 4/10/01	Wed 4/18/01		0%
88						
89	**Reinstall RTD**	20 dys	Tue 3/27/01	Wed 4/25/01		0%
90	Thread MVD cables through RTD	1 dy	Tue 3/27/01	Tue 3/27/01	Crane	0%
91	Attach RTD	1 dy	Tue 4/17/01	Tue 4/17/01	Crane	0%
92	Survey RTD	1 dy	Fri 4/20/01	Fri 4/20/01		0%
93	Recable RTD	3 dys	Mon 4/23/01	Wed 4/25/01		0%

94						
95	**Safety volume rear**	8 dys	Tue 4/17/01	Thu 4/26/01		0%
96	Attach foil to CTD	1 dy	Tue 4/17/01	Tue 4/17/01		0%
97	Reinstall perspex plate	1 dy	Thu 4/26/01	Thu 4/26/01		0%
98	Remove yellow frame rear	1 dy	Thu 4/26/01	Thu 4/26/01	Crane	0%
99						
100	**HES work rear**	5 dys	Fri 4/27/01	Fri 5/4/01		0%
101	Reinstall remaining skis	5 dys	Fri 4/27/01	Fri 5/4/01	Crane	0%
102						
103	**Safety volume front**	17 dys	Mon 4/9/01	Fri 5/4/01		0%
104	Attach foil to CTD	1 dy	Mon 4/9/01	Mon 4/9/01		0%
105	Connect foil to gray plate	1 dy	Fri 5/4/01	Fri 5/4/01		0%
106						
107	**Install RCAL magnetic shielding**	5 dys	Fri 4/27/01	Fri 5/4/01		0%
108	Close RCAL as required	1 dy	Fri 4/27/01	Fri 4/27/01		0%
109	Install PM shileding north	2 dys	Mon 4/30/01	Wed 5/2/01		0%
110	Install PM shielding south	2 dys	Thu 5/3/01	Fri 5/4/01		0%
111						
112	Milestone : FDET back in ZEUS hall	0 dys	Fri 4/20/01	Fri 4/20/01		0%
113						
114	**Reinstall FDET**	15 dys	Thu 4/19/01	Thu 5/10/01		0%
115	Remove yellow frame front	1 dy	Thu 4/19/01	Thu 4/19/01	Crane	0%
116	Install and align FDET rails	1 dy	Thu 4/19/01	Thu 4/19/01		0%
117	Transport FDET to ZEUS hall	1 dy	Fri 4/20/01	Fri 4/20/01	Crane	0%
118	Install windmill+FDET in ZEUS, align	2 dys	Mon 4/23/01	Tue 4/24/01	Crane	0%
119	Insert FDET	1 dy	Wed 4/25/01	Wed 4/25/01		0%
120	Survey FDET	1 dy	Thu 4/26/01	Thu 4/26/01		0%
121	Recable FDET, piping	2 dys	Fri 4/27/01	Mon 4/30/01		0%
122	Survey FDET w.r.t. cryostat	1 dy	Wed 5/2/01	Wed 5/2/01		0%
123	Reinstall grey plate	1 dy	Thu 5/3/01	Thu 5/3/01	Crane	0%
124	Test FDET	5 dys	Fri 5/4/01	Thu 5/10/01		0%
125						
126	Milestone : GO magnet in ZEUS hall	0 dys	Fri 5/4/01	Fri 5/4/01		0%
127						
128	**Install GO magnet**	9 dys	Fri 5/4/01	Wed 5/16/01		0%
129	Install yellow frames front/rear	1 dy	Fri 5/4/01	Fri 5/4/01		0%

130	Prepare support system	2 dys	Fri 5/4/01	Mon 5/7/01	Crane	0%
131	Transport GO to ZEUS hall	1 dy	Fri 5/4/01	Fri 5/4/01	Upper crane	0%
132	Install GO	2 dys	Mon 5/7/01	Tue 5/8/01	Crane	0%
133	Align GO, test remote control	2 dys	Wed 5/9/01	Thu 5/10/01		0%
134	Install current lead tower	2 dys	Fri 5/11/01	Mon 5/14/01	Crane	0%
135	Connect cryo-lines	2 dys	Tue 5/15/01	Wed 5/16/01	Crane,MKS	0%
136						
137	Milestone : GG magnet in ZEUS hall	0 dys	Wed 5/9/01	Wed 5/9/01		0%
138						
139	**Install GG magnet**	12 dys	Tue 5/8/01	Wed 5/23/01		0%
140	Prepare support system	6 dys	Tue 5/8/01	Tue 5/15/01	Crane	0%
141	Transport GG to ZEUS hall	1 dy	Wed 5/9/01	Wed 5/9/01	Upper crane	0%
142	Install GG	2 dys	Wed 5/9/01	Thu 5/10/01	Crane	0%
143	Install current lead tower	2 dys	Fri 5/11/01	Mon 5/14/01	Crane,MKS	0%
144	Connect cryo-lines	2 dys	Tue 5/15/01	Wed 5/16/01	Crane	0%
145	Align GG, test remote control	2 dys	Fri 5/11/01	Mon 5/14/01		0%
146	Install rear beampipe	1 dy	Tue 5/15/01	Tue 5/15/01	Crane	0%
147	Connect to ZEUS beam pipe	1 dy	Wed 5/16/01	Wed 5/16/01		0%
148	Vacumm tests	2 dys	Thu 5/17/01	Fri 5/18/01		0%
149	Install C5 counter	1 dy	Mon 5/21/01	Mon 5/21/01		0%
150	Arrange MVD cables	2 dys	Tue 5/22/01	Wed 5/23/01		0%
151						
152	**Reinstall iron shielding of quadrupoles SR**	4 dys	Fri 5/11/01	Wed 5/16/01		0%
153	Move in new iron blocks through tunnel	1 dy	Fri 5/11/01	Fri 5/11/01		0%
154	Install iron shielding	1 dy	Tue 5/15/01	Tue 5/15/01		0%
155	Install iron shielding in Veto wall window	1 dy	Wed 5/16/01	Wed 5/16/01		0%
156						
157	**Finish reinstallation of concrete**	5 dys	Tue 5/15/01	Mon 5/21/01		0%
158	Close roof SR	1 dy	Tue 5/15/01	Tue 5/15/01	Crane	0%
159	Close roof SL	1 dy	Tue 5/15/01	Tue 5/15/01	Crane	0%
160	Reinstall concrete top south yoke	2 dys	Wed 5/16/01	Thu 5/17/01	Crane	0%
161	Reinstall concrete top north yoke	2 dys	Fri 5/18/01	Mon 5/21/01	Crane	0%
162						
163	Milestone : 6m tagger in ZEUS hall	0 dys	Tue 5/22/01	Tue 5/22/01		0%
164						
165	**Install 6m tagger**	6 dys	Mon 5/21/01	Mon 5/28/01		0%

166	Install calorimeter	2 dys	Mon 5/21/01	Tue 5/22/01		0%
167	Install electronics in cryo tower	2 dys	Mon 5/21/01	Tue 5/22/01		0%
168	Connect calorimter to electronics	2 dys	Wed 5/23/01	Thu 5/24/01		0%
169	Route cables to rucksack	2 dys	Fri 5/25/01	Mon 5/28/01		0%
170						
171	Milestone : Close F/RCAL	0 dys	Fri 5/18/01	Fri 5/18/01		0%
172						
173	**Close F/RCAL**	10 dys	Thu 5/17/01	Wed 5/30/01		0%
174	Remove yellow frames front	1 dy	Thu 5/17/01	Thu 5/17/01	Crane	0%
175	Close FCAL	1 dy	Fri 5/18/01	Fri 5/18/01		0%
176	Reconnect FCAL hydraulics	1 dy	Mon 5/21/01	Mon 5/21/01		0%
177	Readjust hard stops FCAL	3 dys	Tue 5/22/01	Thu 5/24/01		0%
178	Remove yellow frames rear	1 dy	Thu 5/24/01	Thu 5/24/01	Crane	0%
179	Close RCAL	1 dy	Thu 5/24/01	Thu 5/24/01		0%
180	Reconnect RCAL hydraulics	1 dy	Fri 5/25/01	Fri 5/25/01		0%
181	Readjust hardstops RCAL	3 dys	Mon 5/28/01	Wed 5/30/01		0%
182	Remove FCAL ext. rails	2 dys	Mon 5/21/01	Tue 5/22/01	Crane	0%
183	Remove RCAL ext. rails	2 dys	Fri 5/25/01	Mon 5/28/01	Crane	0%
184						
185	**Recable and test F/RCAL**	26 dys	Wed 5/23/01	Thu 6/28/01		0%
186	Install FCALscaffold	1 dy	Wed 5/23/01	Wed 5/23/01		0%
187	Recable FCAL	5 dys	Thu 5/24/01	Wed 5/30/01		0%
188	Recable FHES	5 dys	Thu 5/24/01	Wed 5/30/01	Crane,ABB	0%
189	Install RCAL scaffold	1 dy	Fri 5/25/01	Fri 5/25/01		0%
190	Recable RCAL	5 dys	Mon 5/28/01	Fri 6/1/01		0%
191	Recable RHES	5 dys	Mon 5/28/01	Fri 6/1/01	ABB,Crane	0%
192	Test CAL readout	20 dys	Thu 5/31/01	Thu 6/28/01		0%
193						
194	**Reinstall smoke detector**	2 dys	Thu 5/31/01	Fri 6/1/01		0%
195	Reconnect pipes	1 dy	Thu 5/31/01	Thu 5/31/01		0%
196	Test smoke detector	1 dy	Fri 6/1/01	Fri 6/1/01		0%
197						
198	**Finish ZEUS activities**	26 dys	Fri 5/25/01	Mon 7/2/01		0%
199	Cool down solenoid	10 dys	Fri 5/25/01	Fri 6/8/01		0%
200	Reinstall blue plates	1 dy	Fri 6/29/01	Fri 6/29/01	Crane	0%
201	Remove scaffolding	1 dy	Fri 6/29/01	Fri 6/29/01		0%

202	Cleanup area	1 dy	Mon 7/2/01	Mon 7/2/01		0%
203	Close ZEUS yoke	1 dy	Mon 7/2/01	Mon 7/2/01		0%
204						
205	Milestone : ZEUS detector closed	0 dys	Mon 7/2/01	Mon 7/2/01		0%