

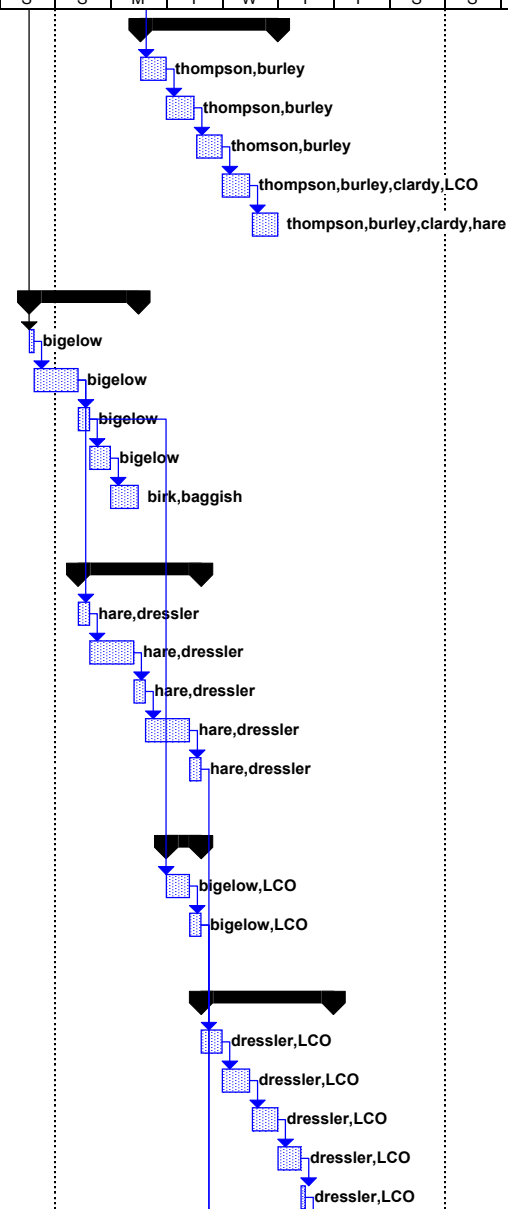
ID	Task Name	Duration	Start	Finish	Predec	Aug 3, '03							Aug 10, '03							Aug 17, '03	
						F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	IMACS shipping	25 days	Tue 7/1/03	Fri 8/1/03																	
2	Transport IMACS to Long Beach	1 day	Tue 7/1/03	Tue 7/1/03																	
3	Columbus #357 leaves for Chile	14 days	Sat 7/5/03	Wed 7/23/03	2																
4	Columbus #357 arrives San Antonio	1 day	Thu 7/24/03	Thu 7/24/03	3																
5	IMACS container clear customs	4 days	Fri 7/25/03	Wed 7/30/03	4																
6	IMACS container transport to LCO	1 day	Thu 7/31/03	Thu 7/31/03	5																
7	IMACS container arrives at LCO	1 day	Fri 8/1/03	Fri 8/1/03	6																
8																					
9	IMACS installation	18 days	Thu 7/31/03	Mon 8/18/03																	
10																					
11	Phase I	10 days	Thu 7/31/03	Sun 8/10/03																	
12																					
13	Preparations for Installation	3 days	Thu 7/31/03	Sun 8/3/03																	
14	First wave arrives	1 day	Thu 7/31/03	Thu 7/31/03																	
15	Unload container, stage for assembly	2 days	Fri 8/1/03	Sun 8/3/03	14																
16																					
17	Commission mask cutting laser	7 days	Mon 8/4/03	Sun 8/10/03	15																
18	Commission cutting software, hardware	7 days	Mon 8/4/03	Sun 8/10/03																	
19																					
20	Install main structures	5.5 days	Mon 8/4/03	Sat 8/9/03																	
21	Transport carriage to platform	0.5 days	Mon 8/4/03	Mon 8/4/03	15																
22	Align instrument carriage on platform	0.5 days	Mon 8/4/03	Mon 8/4/03	21																
23	Locate, install carriage pads on platform	0.5 days	Tue 8/5/03	Tue 8/5/03	22																
24	Install mainframe	0.5 days	Tue 8/5/03	Tue 8/5/03	23																
25	Install MOSS box	0.5 days	Wed 8/6/03	Wed 8/6/03	24																
26	Install utility wrap fixed structure	0.5 days	Wed 8/6/03	Wed 8/6/03	25																
27	Install utility wrap rotating structure	0.5 days	Thu 8/7/03	Thu 8/7/03	26																
28	Align structure to telescope	0.5 days	Thu 8/7/03	Thu 8/7/03	27																
29	Install temporary structure rotation drive	0.5 days	Fri 8/8/03	Fri 8/8/03	28																
30	Structure installation complete	1 day	Fri 8/8/03	Sat 8/9/03	29																
31	Gunnels leaves	1 day	Fri 8/8/03	Sat 8/9/03	29																

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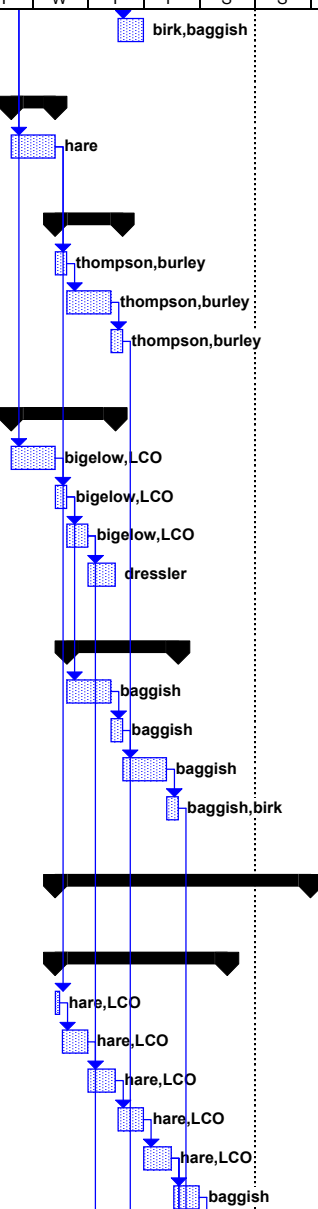
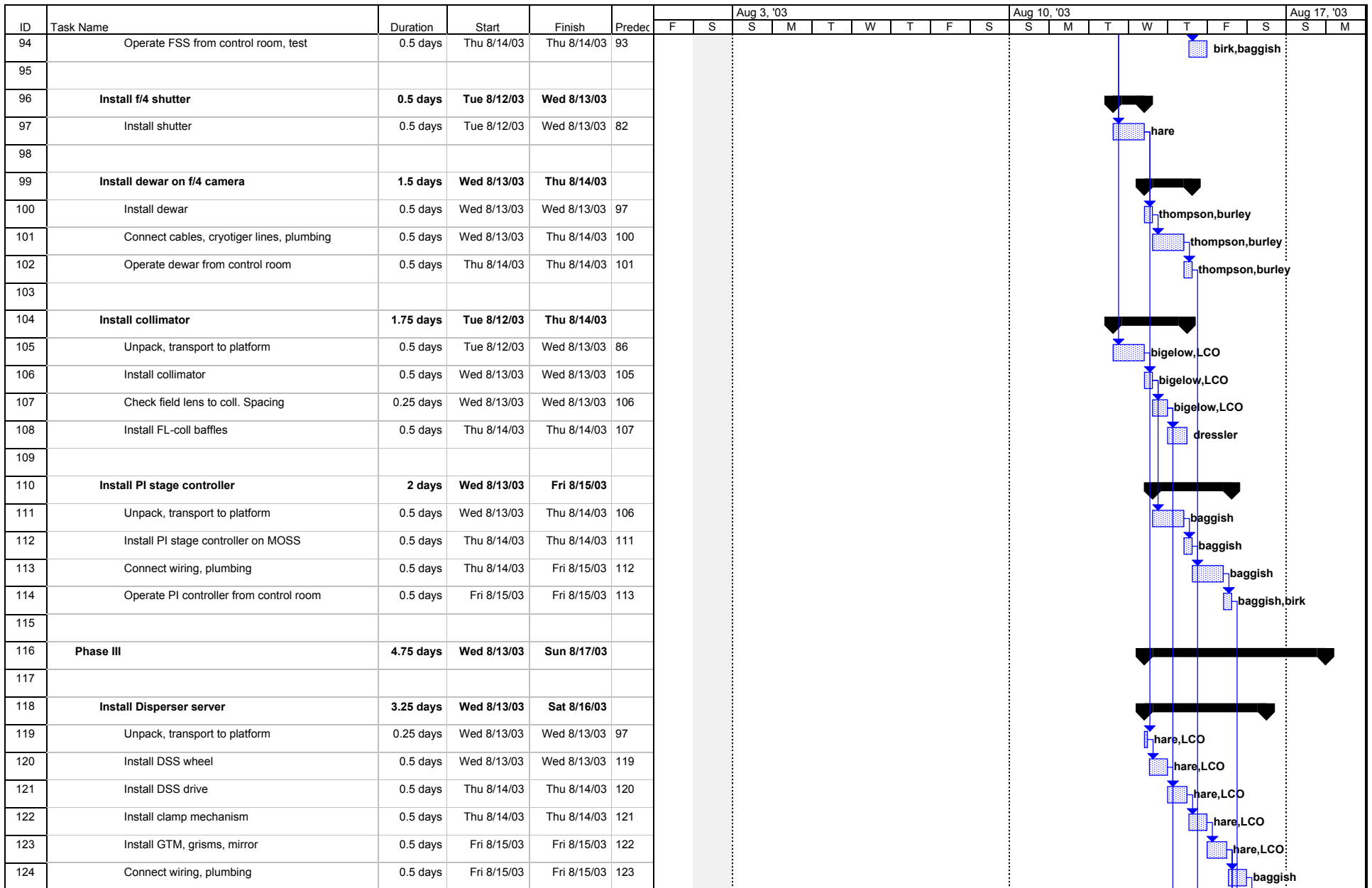
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						F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M			
32																										
33	Install electronics racks	5.5 days	Mon 8/4/03	Sat 8/9/03																						
34	Unpack racks, chassis (Aux bldg.)	0.5 days	Mon 8/4/03	Mon 8/4/03	15																					
35	Assemble racks, install chassis	1 day	Mon 8/4/03	Tue 8/5/03	34																					
36	Install rack internet communications	0.5 days	Tue 8/5/03	Tue 8/5/03	35																					
37	Establish computer control of racks	0.5 days	Wed 8/6/03	Wed 8/6/03	36																					
38	Install racks on platform	0.5 days	Wed 8/6/03	Wed 8/6/03	37																					
39	Install IGUS utility wrap	0.5 days	Thu 8/7/03	Thu 8/7/03	26																					
40	Install electronics bulkhead, cables	1 day	Thu 8/7/03	Fri 8/8/03	39																					
41	Birk arrives	1 day	Thu 8/7/03	Fri 8/8/03	39																					
42	Operate racks from control room	1 day	Fri 8/8/03	Sat 8/9/03	41																					
43																										
44	Assemble detector systems	6.5 days	Mon 8/4/03	Sun 8/10/03	15																					
45	Transport dewar etc. to ASB CCD lab	0.5 days	Mon 8/4/03	Mon 8/4/03																						
46	Assemble dewar, CCD array, controllers	1 day	Mon 8/4/03	Tue 8/5/03	45																					
47	Test dewar, electronics	1 day	Tue 8/5/03	Wed 8/6/03	46																					
48	Install Cryotiger compressor plumbing	0.5 days	Wed 8/6/03	Wed 8/6/03	47																					
49	Transport dewar and computers to Mag 1	0.5 days	Thu 8/7/03	Thu 8/7/03	48																					
50	Install detector computers on Mag 1	1 day	Thu 8/7/03	Fri 8/8/03	49																					
51	Operate detector sys from control room	1 day	Fri 8/8/03	Sat 8/9/03	50																					
52	Test guide cameras	0.5 days	Sat 8/9/03	Sat 8/9/03	51																					
53	Operate guide cameras from control room	0.5 days	Sun 8/10/03	Sun 8/10/03	52																					
54																										
55	Phase II	6.25 days	Sat 8/9/03	Fri 8/15/03																						
56																										
57	Install guide camera stages	2 days	Sat 8/9/03	Mon 8/11/03																						
58	Unpack, assemble guiders	0.5 days	Sat 8/9/03	Sat 8/9/03	30																					
59	Install guiders on FOSS disk	0.5 days	Sun 8/10/03	Sun 8/10/03	58																					
60	Connect air, cables, coolant lines	0.5 days	Sun 8/10/03	Sun 8/10/03	59																					
61	Operate guiders from control room, test	0.5 days	Mon 8/11/03	Mon 8/11/03	60																					
62																										

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63	Install guider cameras	2.5 days	Mon 8/11/03	Wed 8/13/03																						
64	Install cameras on stages	0.5 days	Mon 8/11/03	Mon 8/11/03	61																					
65	Connect wiring, plumbing	0.5 days	Tue 8/12/03	Tue 8/12/03	64																					
66	Operate guide cameras from control room	0.5 days	Tue 8/12/03	Tue 8/12/03	65																					
67	Operate guide cameras from telescope	0.5 days	Wed 8/13/03	Wed 8/13/03	66																					
68	Focus guide cameras on slit mask	0.5 days	Wed 8/13/03	Wed 8/13/03	67																					
69																										
70	Install slit mask server	2 days	Sat 8/9/03	Mon 8/11/03																						
71	Unpack, transport to platform	0.25 days	Sat 8/9/03	Sat 8/9/03	30																					
72	Install mask shuttle	0.5 days	Sat 8/9/03	Sun 8/10/03	71																					
73	Align shuttle, insertion mechanism	0.5 days	Sun 8/10/03	Sun 8/10/03	72																					
74	Connect cables, air lines	0.25 days	Sun 8/10/03	Sun 8/10/03	73																					
75	Operate mask server from control room	0.5 days	Mon 8/11/03	Mon 8/11/03	74																					
76																										
77	Install Field lens	2.5 days	Sun 8/10/03	Tue 8/12/03																						
78	Unpack field lens, assemble in fixture	0.5 days	Sun 8/10/03	Sun 8/10/03	72																					
79	Mount field lens in cell	0.5 days	Sun 8/10/03	Mon 8/11/03	78																					
80	Clean field lens (acetone bath)	0.5 days	Mon 8/11/03	Mon 8/11/03	79																					
81	Mount cell on mask server	0.5 days	Mon 8/11/03	Tue 8/12/03	80																					
82	Check slit-mask to field lens spacing	0.5 days	Tue 8/12/03	Tue 8/12/03	81																					
83																										
84	Install f/4 camera	0.75 days	Tue 8/12/03	Tue 8/12/03																						
85	Unpack, transport to platform	0.25 days	Tue 8/12/03	Tue 8/12/03	73																					
86	Install f/4 camera	0.5 days	Tue 8/12/03	Tue 8/12/03	85																					
87																										
88	Install f/4 camera filter server	2.25 days	Tue 8/12/03	Thu 8/14/03																						
89	Unpack, transport to platform	0.25 days	Tue 8/12/03	Tue 8/12/03	86																					
90	Install FSS mount, shuttle, align to camera	0.5 days	Wed 8/13/03	Wed 8/13/03	89																					
91	Install FSS insert mount, align to shuttle	0.5 days	Wed 8/13/03	Wed 8/13/03	90																					
92	Connect wiring, plumbing	0.25 days	Thu 8/14/03	Thu 8/14/03	91																					
93	Install SMS cover	0.25 days	Thu 8/14/03	Thu 8/14/03	92																					



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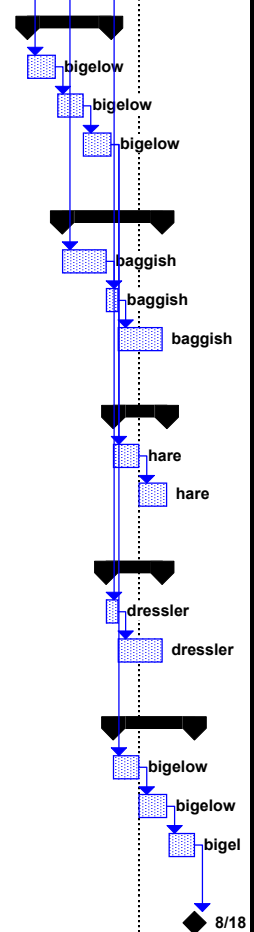


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125	Operate DSS from control room	0.5 days	Sat 8/16/03	Sat 8/16/03	124																					
126																										
127	Install calibration system	0.75 days	Fri 8/15/03	Sat 8/16/03																						
128	Install calibration lamp assembly	0.25 days	Fri 8/15/03	Fri 8/15/03	123																					
129	Connect cabling	0.25 days	Fri 8/15/03	Fri 8/15/03	128																					
130	Operate from control room	0.25 days	Sat 8/16/03	Sat 8/16/03	129																					
131																										
132	First Images	3 days	Thu 8/14/03	Sun 8/17/03																						
133	Sutin arrives	1 day	Thu 8/14/03	Fri 8/15/03	102																					
134	Test f/4 image quality, CCD cooling, shutter	1 day	Fri 8/15/03	Sat 8/16/03	133																					
135	First light?	1 day	Sat 8/16/03	Sun 8/17/03	134																					
136																										
137	Install f/2 camera	1 day	Thu 8/14/03	Thu 8/14/03																						
138	Unpack, transport to platform	0.5 days	Thu 8/14/03	Thu 8/14/03	107																					
139	Install f/2 camera	0.5 days	Thu 8/14/03	Thu 8/14/03	138																					
140																										
141	Install f/2 camera filter server	1.75 days	Fri 8/15/03	Sat 8/16/03																						
142	Unpack, transport to platform	0.25 days	Fri 8/15/03	Fri 8/15/03	139																					
143	Install FSS mount, shuttle, align to camera	0.5 days	Fri 8/15/03	Fri 8/15/03	142																					
144	Install FSS insert mount, align to shuttle	0.5 days	Fri 8/15/03	Sat 8/16/03	143																					
145	Operate FSS from control room, test	0.5 days	Sat 8/16/03	Sat 8/16/03	144																					
146																										
147	Install f/2 shutter	1 day	Fri 8/15/03	Sat 8/16/03																						
148	Install f/2 camera shutter	0.5 days	Fri 8/15/03	Fri 8/15/03	123																					
149	Operate shutters from control room	0.5 days	Sat 8/16/03	Sat 8/16/03	148																					
150																										
151	Install dewar on f/2 camera	1.5 days	Sat 8/16/03	Sun 8/17/03																						
152	Install dewar	0.25 days	Sat 8/16/03	Sat 8/16/03	149																					
153	Connect cables, cryotiger lines, plumbing	0.25 days	Sat 8/16/03	Sat 8/16/03	152																					
154	Operate dewar from control room	0.5 days	Sun 8/17/03	Sun 8/17/03	153																					
155	Test f/2 image quality, CCD cooling, shutter	0.5 days	Sun 8/17/03	Sun 8/17/03	154																					

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156																									
157	Install cooling system	1.5 days	Fri 8/15/03	Sat 8/16/03																					
158	Install NAS, instrument bulkheads	0.5 days	Fri 8/15/03	Fri 8/15/03	139																				
159	Install FOSS disk bulkheads	0.5 days	Fri 8/15/03	Fri 8/15/03	158																				
160	Install dewar, PI box cooling systems	0.5 days	Sat 8/16/03	Sat 8/16/03	159																				
161																									
162	Install remaining cable wrap	1.5 days	Fri 8/15/03	Sun 8/17/03																					
163	Finish FOSS disk cables	0.5 days	Fri 8/15/03	Sat 8/16/03	114																				
164	Finish MOSS disk cables	0.5 days	Sat 8/16/03	Sat 8/16/03	163																				
165	Finish misc cables, temp sensors, etc.	0.5 days	Sat 8/16/03	Sun 8/17/03	164																				
166																									
167	Balance Instrument	1 day	Sat 8/16/03	Sun 8/17/03																					
168	Install counter-weight assembly	0.5 days	Sat 8/16/03	Sat 8/16/03	160																				
169	Rotationally balance instrument	0.5 days	Sun 8/17/03	Sun 8/17/03	168																				
170																									
171	Install air circulation systems	1 day	Sat 8/16/03	Sun 8/17/03																					
172	Install instrument over-pressure system	0.5 days	Sat 8/16/03	Sat 8/16/03	144																				
173	Install circulation fans	0.5 days	Sat 8/16/03	Sun 8/17/03	172																				
174																									
175	Install instrument enclosures	1.5 days	Sat 8/16/03	Sun 8/17/03																					
176	Install slit area panels	0.5 days	Sat 8/16/03	Sat 8/16/03	160																				
177	Install tail panels	0.5 days	Sun 8/17/03	Sun 8/17/03	176																				
178	Install central panels	0.5 days	Sun 8/17/03	Sun 8/17/03	177																				
179																									
180	Instrument assembly complete	1 day	Mon 8/18/03	Mon 8/18/03	178																				



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