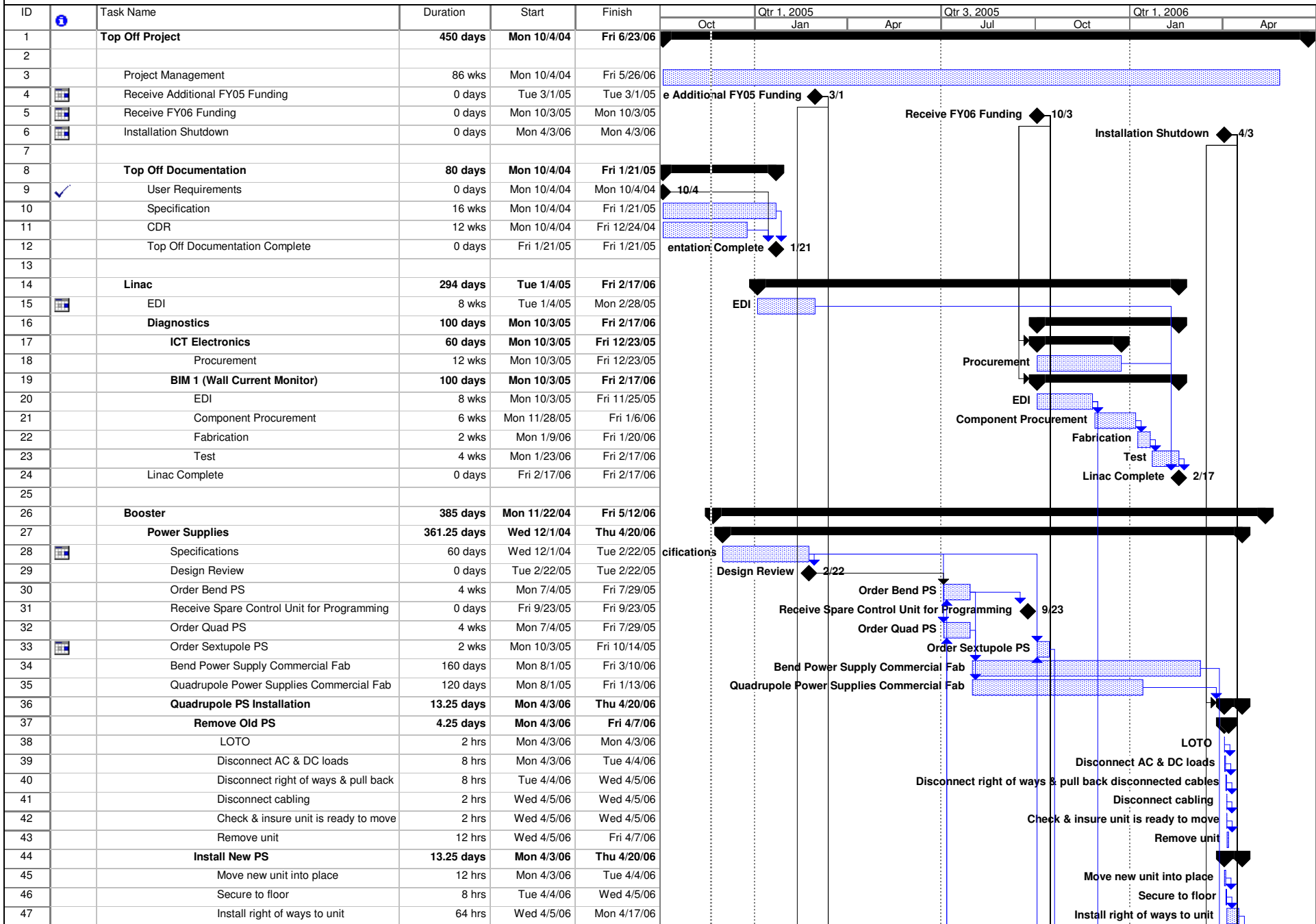


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ID	Task Name	Duration	Start	Finish	Qtr 1. 2005		Qtr 3. 2005		Qtr 1. 2006	
					Oct	Jan	Apr	Jul	Oct	Jan
48	Connect AC power cables	8 hrs	Mon 4/17/06	Tue 4/18/06						
49	Connect DC output cables	4 hrs	Tue 4/18/06	Tue 4/18/06						
50	Connect all controls cabling	4 hrs	Wed 4/19/06	Wed 4/19/06						
51	Connect water lines	6 hrs	Wed 4/19/06	Thu 4/20/06						
52	Sextupole Power Supplies Commercial Fab	40 days	Mon 10/17/05	Fri 12/9/05						
53	Install During Two Day Shutdowns	0 days	Fri 12/9/05	Fri 12/9/05						
54	<b>Bend PS Installation</b>	<b>9.5 days</b>	<b>Thu 4/6/06</b>	<b>Wed 4/19/06</b>						
55	<b>Remove Old PS</b>	<b>2.5 days</b>	<b>Thu 4/6/06</b>	<b>Mon 4/10/06</b>						
56	LOTO	2 hrs	Thu 4/6/06	Thu 4/6/06						
57	Disconnect AC & DC loads	4 hrs	Thu 4/6/06	Thu 4/6/06						
58	Disconnect right of ways & pull back	4 hrs	Thu 4/6/06	Fri 4/7/06						
59	Disconnect cabling	1 hr	Fri 4/7/06	Fri 4/7/06						
60	Check & insure unit is ready to move	1 hr	Fri 4/7/06	Fri 4/7/06						
61	Remove unit	8 hrs	Fri 4/7/06	Mon 4/10/06						
62	<b>Install New PS</b>	<b>7 days</b>	<b>Mon 4/10/06</b>	<b>Wed 4/19/06</b>						
63	Move new unit into place	8 hrs	Mon 4/10/06	Tue 4/11/06						
64	Secure to floor	4 hrs	Tue 4/11/06	Tue 4/11/06						
65	Install right of ways to unit	32 hrs	Wed 4/12/06	Mon 4/17/06						
66	Connect AC power cables	4 hrs	Tue 4/18/06	Tue 4/18/06						
67	Connect DC output cables	2 hrs	Tue 4/18/06	Tue 4/18/06						
68	Connect all controls cabling	2 hrs	Tue 4/18/06	Tue 4/18/06						
69	Connect water lines	4 hrs	Wed 4/19/06	Wed 4/19/06						
70										
71	Booster Power Supplies Complete	0 days	Wed 4/19/06	Wed 4/19/06						
72										
73	<b>Thin Septum Magnet</b>	<b>385 days</b>	<b>Mon 11/22/04</b>	<b>Fri 5/12/06</b>						
74	EDI	45 wks	Mon 11/22/04	Fri 9/30/05						
75	Magnet - swap out procedure	30 days	Mon 4/3/06	Fri 5/12/06						
76	Magnetic/mechanic measurements at higher fi	4 wks	Mon 11/29/04	Fri 12/24/04						
77	Short lifetime testing at higher field	8 wks	Mon 1/24/05	Fri 3/18/05						
78	Order Supply	0 days	Mon 10/3/05	Mon 10/3/05						
79	Receive Supply	0 days	Fri 12/2/05	Fri 12/2/05						
80	Power Supplies- KSI upgrade	10 days	Mon 12/5/05	Fri 12/16/05						
81										
82	<b>Thick Septum Magnet</b>	<b>290 days</b>	<b>Mon 11/22/04</b>	<b>Fri 12/30/05</b>						
83	EDI	100 edays	Mon 11/22/04	Wed 3/2/05						
84	Magnetic/Mechanic Measurements at Higher F	30 edays	Fri 12/24/04	Sun 1/23/05						
85	Short lifetime testing at higher field	60 edays	Fri 3/18/05	Tue 5/17/05						
86	Order Supply	0 days	Mon 10/3/05	Mon 10/3/05						
87	Receive Supply	0 days	Fri 12/2/05	Fri 12/2/05						
88	Power Supplies - KSI replacement	10 days	Mon 12/19/05	Fri 12/30/05						
89	Order Caps	0 days	Mon 10/3/05	Mon 10/3/05						
90	Receive Caps	0 days	Fri 12/23/05	Fri 12/23/05						
91	Power Supplies - replace capacitors	5 days	Mon 12/26/05	Fri 12/30/05						
92										
93	<b>Kicker Magnet</b>	<b>40 days</b>	<b>Mon 10/3/05</b>	<b>Fri 11/25/05</b>						
94	EDI	15 days	Mon 10/3/05	Fri 10/21/05						

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ID	Task Name	Duration	Start	Finish	Timeline																		
					Oct	Qtr 1. 2005			Apr	Qtr 3. 2005			Oct	Qtr 1. 2006									
95	Power Supplies - one new interface	5 days	Mon 10/24/05	Fri 10/28/05																			
96	Power Supplies - HV diode stack	5 days	Mon 10/31/05	Fri 11/4/05																			
97	Power Supplies - Kicker structure upgrades	5 days	Mon 11/7/05	Fri 11/11/05																			
98	Power Supplies - charge-line upgrades	10 days	Mon 11/14/05	Fri 11/25/05																			
99																							
100	Booster Pulsed Magnets Complete	0 days	Fri 5/12/06	Fri 5/12/06																			
101																							
102	<b>RF</b>	<b>349 days</b>	<b>Mon 1/10/05</b>	<b>Thu 5/11/06</b>																			
103	Money Available for Procurement	0 days	Tue 3/1/05	Tue 3/1/05																			
104	<b>EDI Overall System</b>	<b>320 days</b>	<b>Mon 1/10/05</b>	<b>Mon 4/3/06</b>																			
105	EDI/Specs for Procurements	60 days	Mon 1/10/05	Fri 4/1/05																			
106	Design Review for HVPS, Transmitter, and Window	0 days	Fri 4/1/05	Fri 4/1/05																			
107	EDI Overall System	100 days	Tue 3/1/05	Mon 7/18/05																			
108	Begin Installation Shutdown	0 days	Mon 4/3/06	Mon 4/3/06																			
109	<b>High Voltage Power Supply</b>	<b>262 days</b>	<b>Mon 4/4/05</b>	<b>Tue 4/4/06</b>																			
110	Purchase HVPS	90 days	Mon 4/4/05	Fri 8/5/05																			
111	Removal of existing HVPS	2 days	Mon 4/3/06	Tue 4/4/06																			
112	<b>Installation of new HVPS</b>	<b>30 days</b>	<b>Mon 8/8/05</b>	<b>Fri 9/16/05</b>																			
113	Installation of HVPS	6 wks	Mon 8/8/05	Fri 9/16/05																			
114	Installation of HVPS	0 days	Fri 9/16/05	Fri 9/16/05																			
115	<b>Final Amplifier/Transmitter</b>	<b>278 days</b>	<b>Mon 4/4/05</b>	<b>Wed 4/26/06</b>																			
116	Purchase Transmitter System	120 days	Mon 4/4/05	Fri 9/16/05																			
117	IOT Tube purchase	80 days	Mon 4/4/05	Fri 7/22/05																			
118	Removal of existing xmtr	3 days	Wed 4/5/06	Fri 4/7/06																			
119	<b>Temp Install xmtr for testing</b>	<b>65 days</b>	<b>Wed 10/19/05</b>	<b>Tue 1/17/06</b>																			
120	Temp Install Xmtr	10 days	Wed 10/19/05	Tue 11/1/05																			
121	Acceptance Test Xmtr	15 days	Wed 11/2/05	Tue 11/22/05																			
122	Control System Programming	40 days	Wed 11/23/05	Tue 1/17/06																			
123	Xmtr tested & Controls Programmed	0 days	Tue 1/17/06	Tue 1/17/06																			
124	Reinstall xmtr in final location, test	13 days	Mon 4/10/06	Wed 4/26/06																			
125	<b>RF Cavity Window</b>	<b>212 days</b>	<b>Mon 4/4/05</b>	<b>Tue 1/24/06</b>																			
126	Purchase Ceramics and Assembly	140 days	Mon 4/4/05	Fri 10/14/05																			
127	<b>Titanium Nitride Coat</b>	<b>25 days</b>	<b>Mon 10/17/05</b>	<b>Fri 11/18/05</b>																			
128	Titanium Nitride Coating	20 days	Mon 10/17/05	Fri 11/11/05																			
129	RBS Measurements	5 days	Mon 11/14/05	Fri 11/18/05																			
130	Power Test Windows	2 wks	Wed 1/11/06	Tue 1/24/06																			
131	Windows Ready for Installation	0 days	Tue 1/24/06	Tue 1/24/06																			
132	<b>RF Transmission Line</b>	<b>154 days</b>	<b>Mon 10/3/05</b>	<b>Thu 5/4/06</b>																			
133	Purchase Components	12 wks	Mon 10/3/05	Fri 12/23/05																			
134	Remove Old/Install New Line	5 days	Fri 4/28/06	Thu 5/4/06																			
135	<b>Controls and Interlocks</b>	<b>159 days</b>	<b>Mon 10/3/05</b>	<b>Thu 5/11/06</b>																			
136	Purchase PLC and Local Display PC	8 wks	Mon 10/3/05	Fri 11/25/05																			
137	Program PLC	4 wks	Wed 2/1/06	Tue 2/28/06																			
138	Program Local Display	4 wks	Wed 3/1/06	Tue 3/28/06																			
139	Testing	1 wk	Fri 5/5/06	Thu 5/11/06																			
140	RF System Ready for Beam	0 days	Thu 5/11/06	Thu 5/11/06																			
141	<b>Utilities</b>	<b>32 days</b>	<b>Mon 9/5/05</b>	<b>Tue 10/18/05</b>																			

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ID	Task Name	Duration	Start	Finish	Gantt Chart																	
					Oct	Qtr 1. 2005			Qtr 3. 2005			Qtr 1. 2006										
142	Coordination	25 days	Mon 9/5/05	Fri 10/7/05																		
143	480 VAC	2 days	Mon 10/10/05	Tue 10/11/05																		
144	LCW	7 days	Mon 10/10/05	Tue 10/18/05																		
145	Structure Core Drilling	1 day	Thu 4/27/06	Thu 4/27/06																		
146	Spares	140 days	Mon 10/3/05	Fri 4/14/06																		
147	<b>RSS Installation</b>	<b>243 days</b>	<b>Mon 5/2/05</b>	<b>Wed 4/5/06</b>																		
148	EDI	2 wks	Mon 5/2/05	Fri 5/13/05																		
149	Installation	2 days	Mon 4/3/06	Tue 4/4/06																		
150	Testing	1 day	Wed 4/5/06	Wed 4/5/06																		
151																						
152	Booster RF Complete	0 days	Thu 5/11/06	Thu 5/11/06																		
153																						
154	<b>Diagnostics</b>	<b>320 days</b>	<b>Mon 1/17/05</b>	<b>Fri 4/7/06</b>																		
155	<b>Bunch Cleaning</b>	<b>289 days</b>	<b>Tue 3/1/05</b>	<b>Fri 4/7/06</b>																		
156	<b>Vertical Kicker</b>	<b>286 days</b>	<b>Tue 3/1/05</b>	<b>Tue 4/4/06</b>																		
157	EDI	4 wks	Tue 3/1/05	Mon 3/28/05																		
158	Material Procurement	2 wks	Mon 10/3/05	Fri 10/14/05																		
159	Fabrication	8 wks	Mon 10/17/05	Fri 12/9/05																		
160	Testing	4 wks	Mon 12/12/05	Fri 1/6/06																		
161	Installation	2 days	Mon 4/3/06	Tue 4/4/06																		
162	<b>High Power Amplifier</b>	<b>96 days</b>	<b>Mon 10/3/05</b>	<b>Mon 2/13/06</b>																		
163	Specification and Order	1 wk	Mon 10/3/05	Fri 10/7/05																		
164	Receive Amp	1 day	Mon 1/30/06	Mon 1/30/06																		
165	Installation	2 wks	Tue 1/31/06	Mon 2/13/06																		
166	<b>Vertical Scraper</b>	<b>106 days</b>	<b>Mon 10/10/05</b>	<b>Mon 3/6/06</b>																		
167	EDI	6 wks	Mon 10/10/05	Fri 11/18/05																		
168	Design Review	0 days	Fri 11/18/05	Fri 11/18/05																		
169	Fabrication	12 wks	Mon 11/21/05	Fri 2/10/06																		
170	Installation	2 days	Mon 2/13/06	Tue 2/14/06																		
171	Testing	1 wk	Tue 2/28/06	Mon 3/6/06																		
172	<b>Cleaning Electronics</b>	<b>135 days</b>	<b>Mon 10/3/05</b>	<b>Fri 4/7/06</b>																		
173	EDI	4 wks	Mon 10/3/05	Fri 10/28/05																		
174	Component Procurement	4 wks	Mon 10/31/05	Fri 11/25/05																		
175	Fabrication	2 wks	Mon 11/28/05	Fri 12/9/05																		
176	Testing	2 wks	Mon 12/12/05	Fri 12/23/05																		
177	Installation	1 wk	Mon 4/3/06	Fri 4/7/06																		
178	<b>Function Generator</b>	<b>95 days</b>	<b>Mon 10/3/05</b>	<b>Fri 2/10/06</b>																		
179	Specification and Order	1 wk	Mon 10/3/05	Fri 10/7/05																		
180	Receive Generator	0 days	Fri 1/27/06	Fri 1/27/06																		
181	Installation	2 wks	Mon 1/30/06	Fri 2/10/06																		
182	Bunch Cleaning Complete	0 days	Fri 4/7/06	Fri 4/7/06																		
183	<b>Tune Measurement System</b>	<b>246 days</b>	<b>Tue 3/1/05</b>	<b>Tue 2/7/06</b>																		
184	<b>Horizontal Kicker</b>	<b>92 days</b>	<b>Mon 10/3/05</b>	<b>Tue 2/7/06</b>																		
185	EDI	4 wks	Mon 10/3/05	Fri 10/28/05																		
186	Material Procurement	2 wks	Mon 10/31/05	Fri 11/11/05																		
187	Fabrication	8 wks	Mon 11/14/05	Fri 1/6/06																		
188	Testing	4 wks	Mon 1/9/06	Fri 2/3/06																		

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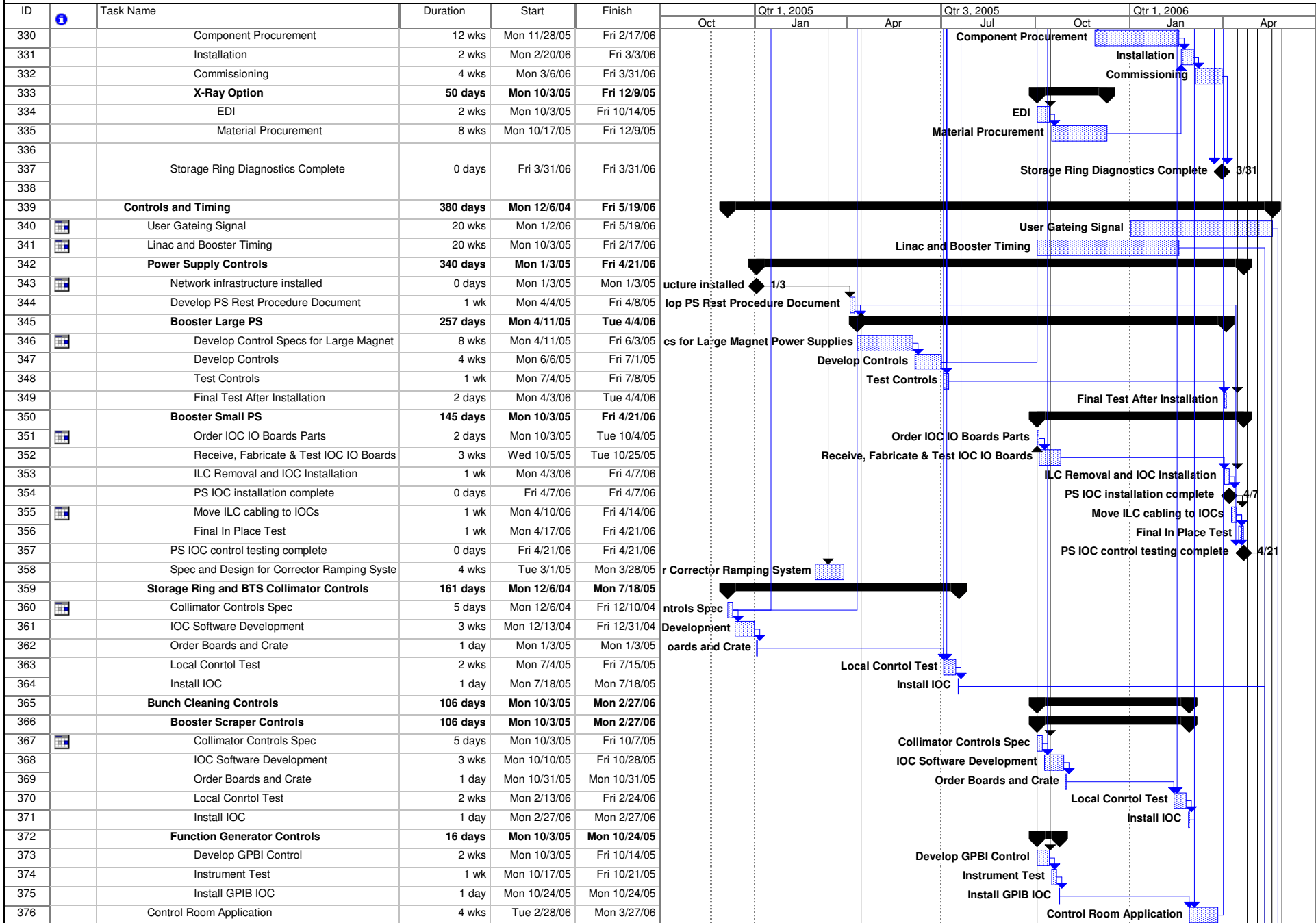
ID	Task Name	Duration	Start	Finish		Oct	Qtr 1. 2005	Apr	Qtr 3. 2005	Oct	Qtr 1. 2006	Apr
							Jan		Jul	Jan		
189	Installation	2 days	Mon 2/6/06	Tue 2/7/06						Installation		
190	<b>Oscilloscope</b>	<b>60 days</b>	<b>Tue 3/1/05</b>	<b>Mon 5/23/05</b>			Specification and Order					
191	Specification and Order	2 wks	Tue 3/1/05	Mon 3/14/05								
192	Receive Oscilloscope	0 days	Mon 5/9/05	Mon 5/9/05			Receive Oscilloscope					
193	Installation	2 wks	Tue 5/10/05	Mon 5/23/05			Installation					
194	<b>BPMs</b>	<b>235 days</b>	<b>Mon 1/17/05</b>	<b>Fri 12/9/05</b>								
195	Test with Spare SR Electronics	1 day	Mon 1/17/05	Mon 1/17/05			pare SR Electronics					
196	EDI	1 wk	Tue 3/1/05	Mon 3/7/05			EDI					
197	Procurement	8 wks	Mon 10/3/05	Fri 11/25/05					Procurement			
198	Installation	2 wks	Mon 11/28/05	Fri 12/9/05					Installation			
199												
200	Booster Diagnostics Complete	0 days	Fri 4/7/06	Fri 4/7/06						Booster Diagnostics Complete		
201												
202	<b>BTS</b>	<b>417.75 days</b>	<b>Mon 10/4/04</b>	<b>Wed 5/10/06</b>								
203	<b>Diagnostics</b>	<b>392 days</b>	<b>Mon 10/4/04</b>	<b>Tue 4/4/06</b>								
204	<b>Tune Up Dump</b>	<b>92 days</b>	<b>Mon 10/4/04</b>	<b>Tue 2/8/05</b>								
205	EDI	6 wks	Mon 10/4/04	Fri 11/12/04								
206	Fabrication	12 wks	Mon 11/15/04	Fri 2/4/05			Fabrication					
207	Installation	2 days	Mon 2/7/05	Tue 2/8/05			Installation					
208	<b>Synchrotron Radiation Monitors</b>	<b>286 days</b>	<b>Tue 3/1/05</b>	<b>Tue 4/4/06</b>								
209	<b>Monitor on B1 Bend</b>	<b>52 days</b>	<b>Tue 3/1/05</b>	<b>Wed 5/11/05</b>								
210	EDI	2 wks	Tue 3/1/05	Mon 3/14/05			EDI					
211	Component Procurement	4 wks	Tue 3/15/05	Mon 4/11/05			Component Procurement					
212	Fabrication	3 wks	Tue 3/15/05	Mon 4/4/05			Fabrication					
213	Mechanical Installation	2 days	Tue 4/12/05	Wed 4/13/05			Mechanical Installation					
214	Test and Evaluate	4 wks	Thu 4/14/05	Wed 5/11/05			Test and Evaluate					
215	Determine Value of B3 Monitor	0 days	Wed 5/11/05	Wed 5/11/05			Determine Value of B3 Monitor					
216	<b>Monitor on B3 Bend</b>	<b>132 days</b>	<b>Mon 10/3/05</b>	<b>Tue 4/4/06</b>								
217	EDI	8 wks	Mon 10/3/05	Fri 11/25/05					EDI			
218	Component Procurement	6 wks	Mon 11/28/05	Fri 1/6/06					Component Procurement			
219	Fabrication	12 wks	Mon 1/9/06	Fri 3/31/06					Fabrication			
220	Mechanical Installation	2 days	Mon 4/3/06	Tue 4/4/06					Mechanical Installation			
221	<b>BIM 2 (Wall Current Monitor)</b>	<b>60 days</b>	<b>Mon 11/28/05</b>	<b>Fri 2/17/06</b>								
222	Component Procurement	6 wks	Mon 11/28/05	Fri 1/6/06					Component Procurement			
223	Fabrication	2 wks	Mon 1/9/06	Fri 1/20/06					Fabrication			
224	Test	4 wks	Mon 1/23/06	Fri 2/17/06					Test			
225												
226	BTS Diagnostics Complete	0 days	Fri 2/17/06	Fri 2/17/06						BTS Diagnostics Complete		
227												
228	<b>B1-B4 Bend Power Supplies</b>	<b>222.75 days</b>	<b>Fri 7/1/05</b>	<b>Wed 5/10/06</b>								
229	Purchase B1-B4 Bend Power Supplies	180 edays	Fri 7/1/05	Wed 12/28/05					Purchase B1-B4 Bend Power Supplies			
230	<b>Installation</b>	<b>22.75 days</b>	<b>Mon 4/10/06</b>	<b>Wed 5/10/06</b>								
231	<b>Remove Old PS</b>	<b>7.25 days</b>	<b>Mon 4/10/06</b>	<b>Wed 4/19/06</b>								
232	LOTO	2 hrs	Mon 4/10/06	Mon 4/10/06						LOTO		
233	Disconnect AC & DC loads	16 hrs	Mon 4/10/06	Wed 4/12/06						Disconnect AC & DC loads		
234	Disconnect right of ways & pull back	16 hrs	Wed 4/12/06	Fri 4/14/06						Disconnect right of ways & pull back		
235	Disconnect cabling	4 hrs	Fri 4/14/06	Fri 4/14/06						Disconnect cabling		

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ID	Task Name	Duration	Start	Finish	Qtr 1. 2005			Qtr 3. 2005			Qtr 1. 2006			
					Oct	Jan	Apr	Jul	Oct	Jan	Apr			
236	Check & insure unit is ready to move	4 hrs	Fri 4/14/06	Mon 4/17/06										
237	Remove unit	16 hrs	Mon 4/17/06	Wed 4/19/06										
238	<b>Install New PS</b>	<b>15.5 days</b>	<b>Wed 4/19/06</b>	<b>Wed 5/10/06</b>										
239	Move new unit into place	16 hrs	Wed 4/19/06	Fri 4/21/06										
240	Secure to floor	12 hrs	Fri 4/21/06	Mon 4/24/06										
241	Install right of ways to unit	64 hrs	Mon 4/24/06	Thu 5/4/06										
242	Connect AC power cables	16 hrs	Thu 5/4/06	Mon 5/8/06										
243	Connect DC output cables	4 hrs	Mon 5/8/06	Tue 5/9/06										
244	Connect all controls cabling	4 hrs	Tue 5/9/06	Tue 5/9/06										
245	Connect water lines	8 hrs	Tue 5/9/06	Wed 5/10/06										
246														
247	BTS Power Supplies Complete	0 days	Wed 5/10/06	Wed 5/10/06										
248														
249	<b>Storage Ring</b>	<b>411 days</b>	<b>Mon 10/4/04</b>	<b>Mon 5/1/06</b>										
250	<b>Bump Magnets</b>	<b>210 days</b>	<b>Mon 1/10/05</b>	<b>Fri 10/28/05</b>										
251	EDI	5 days	Mon 1/10/05	Fri 1/14/05										
252	Procure Spare Components	4 wks	Mon 10/3/05	Fri 10/28/05										
253														
254	<b>Thin Septum Magnet</b>	<b>300 days</b>	<b>Mon 11/22/04</b>	<b>Fri 1/13/06</b>										
255	EDI	16 wks	Mon 11/22/04	Fri 3/11/05										
256	Order Supply	0 days	Mon 10/3/05	Mon 10/3/05										
257	Receive Supply	0 days	Fri 12/2/05	Fri 12/2/05										
258	Power Supplies - KSI replacement	10 days	Mon 12/5/05	Fri 12/16/05										
259	Order Caps	0 days	Mon 10/3/05	Mon 10/3/05										
260	Receive Caps	0 days	Fri 12/23/05	Fri 12/23/05										
261	Power Supplies- KSI upgrade	10 days	Mon 1/2/06	Fri 1/13/06										
262														
263	<b>Thick Septum Magnet</b>	<b>315 days</b>	<b>Mon 11/22/04</b>	<b>Fri 2/3/06</b>										
264	EDI	16 wks	Mon 11/22/04	Fri 3/11/05										
265	Order Supply	0 days	Mon 10/3/05	Mon 10/3/05										
266	Receive Supply	0 days	Fri 12/2/05	Fri 12/2/05										
267	Power Supplies - KSI replacement	10 days	Mon 12/5/05	Fri 12/16/05										
268	Order Caps	0 days	Mon 10/3/05	Mon 10/3/05										
269	Receive Caps	0 days	Fri 12/23/05	Fri 12/23/05										
270	Power Supplies - KSI replacement	10 days	Mon 1/16/06	Fri 1/27/06										
271	Power Supplies - replace capacitors	5 days	Mon 1/30/06	Fri 2/3/06										
272														
273	Storage Ring Pulsed Magnets Complete	0 days	Fri 2/3/06	Fri 2/3/06										
274														
275	<b>Radiation Protection</b>	<b>411 days</b>	<b>Mon 10/4/04</b>	<b>Mon 5/1/06</b>										
276	<b>Radiation level minimization</b>	<b>64 days</b>	<b>Mon 12/6/04</b>	<b>Fri 3/4/05</b>										
277	Fab Bremsstrahlung Shielding	3 wks	Mon 12/6/04	Fri 12/24/04										
278	Receive DOE Approval for FSAD Change	0 days	Mon 1/3/05	Mon 1/3/05										
279	Conduct radiation level studies with various settings of injection	60 edays	Mon 1/3/05	Fri 3/4/05										
280	<b>Collimation System</b>	<b>210 days</b>	<b>Mon 10/4/04</b>	<b>Fri 7/22/05</b>										
281	Finalize Design of Double Sided Collimator for ETS	30 days	Mon 12/6/04	Fri 1/14/05										
282	Finalize Design of Vertical Scrapers for SR	30 days	Mon 12/6/04	Fri 1/14/05										

ID	Task Name	Duration	Start	Finish	Gantt Chart																
					Oct	Qtr 1. 2005			Qtr 3. 2005			Qtr 1. 2006									
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
283	Design Review	0 days	Fri 1/14/05	Fri 1/14/05	Design Review																
284	Fabricate Double Sided Collimator for BT	60 days	Mon 1/17/05	Fri 4/8/05	Fabricate Double Sided Collimator for BT																
285	Fabricate Vertical Scrapers for SR	60 days	Mon 4/11/05	Fri 7/1/05	Fabricate Vertical Scrapers for SR																
286	Installation	1 wk	Mon 7/18/05	Fri 7/22/05	Installation																
287	Test Operations of Scraper in SR	1 day	Mon 10/4/04	Mon 10/4/04	Test Operations of Scraper in SR																
288	Repeat radiation level studies	8 wks	Mon 7/25/05	Fri 9/16/05	Repeat radiation level studies																
289	<b>Injection Interlock</b>	<b>346 days</b>	<b>Mon 1/3/05</b>	<b>Mon 5/1/06</b>	<b>Injection Interlock</b>																
290	<b>Storage Ring Current Monitoring</b>	<b>235 days</b>	<b>Mon 1/3/05</b>	<b>Fri 11/25/05</b>	<b>Storage Ring Current Monitoring</b>																
291	EDI	10 wks	Mon 1/3/05	Fri 3/11/05	EDI																
292	Fabrication	4 wks	Mon 10/3/05	Fri 10/28/05	Fabrication																
293	Installation and Testing	4 wks	Mon 10/31/05	Fri 11/25/05	Installation and Testing																
294	<b>Injection Energy Monitoring</b>	<b>215 days</b>	<b>Mon 1/31/05</b>	<b>Fri 11/25/05</b>	<b>Injection Energy Monitoring</b>																
295	EDI	10 wks	Mon 1/31/05	Fri 4/8/05	EDI																
296	Fabrication	4 wks	Mon 10/3/05	Fri 10/28/05	Fabrication																
297	Installation and Testing	4 wks	Mon 10/31/05	Fri 11/25/05	Installation and Testing																
298	<b>Injection System Upgrades</b>	<b>276 days</b>	<b>Mon 4/11/05</b>	<b>Mon 5/1/06</b>	<b>Injection System Upgrades</b>																
299	EDI	15 wks	Mon 4/11/05	Fri 7/22/05	EDI																
300	EDI Update RSS Test Procedure	3 wks	Mon 1/2/06	Fri 1/20/06	EDI Update RSS Test Procedure																
301	Fabrication	4 wks	Mon 10/3/05	Fri 10/28/05	Fabrication																
302	Installation and Testing	4 wks	Mon 4/3/06	Fri 4/28/06	Installation and Testing																
303	2 Day RSS Test (exclusive accelerat	1 day	Mon 5/1/06	Mon 5/1/06	2 Day RSS Test (exclusive accelerator access)																
304	<b>Extraction Trigger Inhibit</b>	<b>345 days</b>	<b>Mon 1/3/05</b>	<b>Fri 4/28/06</b>	<b>Extraction Trigger Inhibit</b>																
305	EDI	12 wks	Mon 1/3/05	Fri 3/25/05	EDI																
306	Fabrication	2 wks	Mon 10/3/05	Fri 10/14/05	Fabrication																
307	Installation and Testing	4 wks	Mon 4/3/06	Fri 4/28/06	Installation and Testing																
308	<b>Beamline/Shutter Interlock</b>	<b>295 days</b>	<b>Mon 1/3/05</b>	<b>Fri 2/17/06</b>	<b>Beamline/Shutter Interlock</b>																
309	EDI	14 wks	Mon 1/3/05	Fri 4/8/05	EDI																
310	Fabrication	14 wks	Mon 10/3/05	Fri 1/6/06	Fabrication																
311	Installation and Testing	6 wks	Mon 1/9/06	Fri 2/17/06	Installation and Testing																
312	Radiation Safety Review	1 day	Mon 9/19/05	Mon 9/19/05	Radiation Safety Review																
313	Apply for DOE Approval for Second FSAD Change	2 wks	Tue 9/20/05	Mon 10/3/05	Apply for DOE Approval for Second FSAD Change																
314	Receive Approval	0 days	Mon 1/23/06	Mon 1/23/06	Receive Approval																
315																					
316	Storage Ring Radiation Protection Complete	0 days	Mon 5/1/06	Mon 5/1/06	Storage Ring Radiation Protection Complete																
317																					
318	<b>Diagnostics</b>	<b>130 days</b>	<b>Mon 10/3/05</b>	<b>Fri 3/31/06</b>	<b>Diagnostics</b>																
319	<b>Upgrade Cleaning System</b>	<b>10 days</b>	<b>Fri 12/30/05</b>	<b>Fri 1/13/06</b>	<b>Upgrade Cleaning System</b>																
320	<b>Function Generator</b>	<b>10 days</b>	<b>Fri 12/30/05</b>	<b>Fri 1/13/06</b>	<b>Function Generator</b>																
321	Receive Generator	0 days	Fri 12/30/05	Fri 12/30/05	Receive Generator																
322	Installation	2 wks	Mon 1/2/06	Fri 1/13/06	Installation																
323	<b>Bunch by Bunch Current Monitor</b>	<b>60 days</b>	<b>Mon 10/3/05</b>	<b>Fri 12/23/05</b>	<b>Bunch by Bunch Current Monitor</b>																
324	<b>Oscilloscope</b>	<b>60 days</b>	<b>Mon 10/3/05</b>	<b>Fri 12/23/05</b>	<b>Oscilloscope</b>																
325	Specification and Order	2 wks	Mon 10/3/05	Fri 10/14/05	Specification and Order																
326	Receive Oscilloscope	0 days	Fri 12/9/05	Fri 12/9/05	Receive Oscilloscope																
327	Installation	2 wks	Mon 12/12/05	Fri 12/23/05	Installation																
328	<b>Visible Bunch Purity Monitor</b>	<b>130 days</b>	<b>Mon 10/3/05</b>	<b>Fri 3/31/06</b>	<b>Visible Bunch Purity Monitor</b>																
329	EDI	8 wks	Mon 10/3/05	Fri 11/25/05	EDI																

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ID	Task Name	Duration	Start	Finish	Gantt Chart											
					Oct	Qtr 1. 2005			Apr	Qtr 3. 2005			Oct	Qtr 1. 2006		
377	<b>RF Controls</b>	<b>70 days</b>	<b>Mon 1/10/05</b>	<b>Fri 4/15/05</b>	[Gantt bar from 1/10/05 to 4/15/05]											
378	Develop Control Specs for RF Transmitter	60 days	Mon 1/10/05	Fri 4/1/05	[Gantt bar from 1/10/05 to 4/1/05]											
379	Specification and design complete for RF ramping system	0 days	Fri 4/1/05	Fri 4/1/05	[Milestone diamond at 4/1/05]											
380	Specification complete for RF transmitter CS interface (Embedded PLC)	0 days	Fri 4/1/05	Fri 4/1/05	[Milestone diamond at 4/1/05]											
381	Develop Controls	2 wks	Mon 4/4/05	Fri 4/15/05	[Gantt bar from 4/4/05 to 4/15/05]											
382																
383	Controls and Timing Complete	0 days	Fri 5/19/06	Fri 5/19/06	[Milestone diamond at 5/19/06]											
384																
385	<b>Accelerator Physics Studies/Commissioning</b>	<b>190 days</b>	<b>Mon 11/22/04</b>	<b>Sat 8/13/05</b>	[Gantt bar from 11/22/04 to 8/13/05]											
386	<b>Precommissioning Studies</b>	<b>190 days</b>	<b>Mon 11/22/04</b>	<b>Sat 8/13/05</b>	[Gantt bar from 11/22/04 to 8/13/05]											
387	<b>Injector transfer efficiencies</b>	<b>190 days</b>	<b>Mon 11/22/04</b>	<b>Sat 8/13/05</b>	[Gantt bar from 11/22/04 to 8/13/05]											
388	Linac beam loading and beam quality	90 edays	Mon 11/22/04	Sun 2/20/05	[Gantt bar from 11/22/04 to 2/20/05]											
389	Booster injection efficiency	120 edays	Sun 12/26/04	Mon 4/25/05	[Gantt bar from 12/26/04 to 4/25/05]											
390	Booster extraction efficiency	90 edays	Sun 2/6/05	Sat 5/7/05	[Gantt bar from 2/6/05 to 5/7/05]											
391	Storage ring injection efficiency/alignment/steering	160 edays	Sun 3/6/05	Sat 8/13/05	[Gantt bar from 3/6/05 to 8/13/05]											
392																
393	Precommissioning Studies Complete	0 days	Sat 8/13/05	Sat 8/13/05	[Milestone diamond at 8/13/05]											
394																
395	Ready for Commissioning and Start Up of Full Energy Injector	0 days	Fri 5/12/06	Fri 5/12/06	[Milestone diamond at 5/12/06]											
396																
397	Commissioning/Startup	14 edays	Fri 5/12/06	Fri 5/26/06	[Gantt bar from 5/12/06 to 5/26/06]											
398																
399	Ready for Top Off Commissioning	0 days	Fri 5/26/06	Fri 5/26/06	[Milestone diamond at 5/26/06]											
400																
401	Commissioning of Cleaning System	4 wks	Mon 5/29/06	Fri 6/23/06	[Gantt bar from 5/29/06 to 6/23/06]											