

ID	WBS	Task Name	Duration												
				Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	1	Specification Development and Conceptual Design	71 days												
21	2	Detail Design	119.5 days												
173	3	Manufacture, purchase, and s/w implementation	120.5 days												
174	3.1	Prepare Documentation Package	60 days												
175	3.1.1	Prepare drawing package	35 days												
176	3.1.1.1	BGR motor mounts	1 wk												
177	3.1.1.2	DGR instrument support structure	2 wks												
178	3.1.1.3	Other details	4 wks												
179	3.1.2	Prepare mechanical parts list	4 wks												
180	3.1.3	Prepare electronics manual	4 wks												
181	3.1.4	Prepare spare parts list	1 wk												
182	3.2	Purchase Long Lead items	80 days												
183	3.2.1	Bent gregorian gear 1	12 wks												
184	3.2.2	Bent gregorian gear 2	16 wks												
185	3.3	Purchase Other Items	95 days												
186	3.3.1	Mechanical components	90 days												
187	3.3.1.1	BGR Motor mounts	6 wks												
188	3.3.1.2	DGR instrument support structure 1	12 wks												
189	3.3.1.3	DGR instrument support structure 2	16 wks												
190	3.3.1.4	Other mechanical components	6 wks												
191	3.3.2	Electronics components	6 wks												
192	4	Detailed Integration, Test, and Installation Planning	60 days												
193	4.1	Produce detailed integration and lab acceptance test plan	4 wks												
194	4.2	Design and produce integration equipment	12 wks												
195	4.3	Secure integration facilities	8 wks												
196	5	Telescope work	111 days												
197	5.1	Prepare detailed installation and handling plan	4 wks												
198	5.2	Mechanical modifications	4 wks												
199	5.3	Cabling and raceways	8 wks												
200	5.4	Remove, ship BGR bearings and gears	2 wks												










Project: LBT Date: Mon 3/19/07	Critical Path		Milestone		External Milestone	
	Task		Summary		Deadline	
	Split		Project Summary			
	Progress		External Tasks			

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201	5.5	Remove, ship DGR bearings and gears	2 wks													
202	6	Electronics integration	30 days													
203	6.1	Assemble, cable, and debug electronics using simulator	6 wks													
204	7	Lab integration and test (BGR1)	25 days													
205	7.1	Assemble mechanical components	5 days													
206	7.1.1	Install bearings on integration fixture	1 day													
207	7.1.2	Install gears on bearings	1 day													
208	7.1.3	Install motor mounts	1 day													
209	7.1.4	Install other components	2 days													
210	7.2	Integrate rotators	2 wks													
211	7.3	Perform lab acceptance tests	1 wk													
212	6.3	Disassemble and ship to telescope	1 wk													
213	8	Telescope integration and test(BGR1)	45 days													
214	8.1	Install on telescope	2 wks													
215	8.2	Commissioning (nonoptical)	3 wks													
216	8.3	Commissioning (optical)	3 wks													
217	8.4	Perform final acceptance tests	1 wk													
218	8.5	First BGR Complete	0 days													
219	9	Lab integration and test (DGR1)	24 days													
220	9.1	Assemble mechanical components	4 days													
221	9.1.1	Install bearings on integration fixture	1 day													
222	9.1.2	Install gears on bearings	1 day													
223	9.1.3	Install instrument support structure	1 day													
224	9.1.4	Install motor mounts	1 day													
225	9.2	Integrate rotators	2 wks													
226	9.3	Perform lab acceptance tests	1 wk													
227	9.4	Disassemble and ship to telescope	1 wk													
228	10	Telescope integration and test (DGR1)	45 days													
229	10.1	Install on telescope	2 wks													
230	10.2	Commissioning (nonoptical)	3 wks													

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231	10.3	Commissioning (optical)	3 wks												
232	10.4	Perform final acceptance tests	1 wk												
233	10.5	First DGR complete	0 days												



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