

ID		Task Name	Duration	Start	Finish	Jun '06				Jul '06				Aug '06				Sep '06				Oct '06				Nov '06							
						4	11	18	25	2	9	16	23	30	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12				
1		1.3mm SSM RECEIVER UPGRADE/Phase 1 Rev. 1.4 8/31/2006	113 days	Tue 6/13/06	Thu 11/16/06																												
2		Bring the receiver down from Mt. Graham	1 day	Wed 6/28/06	Wed 6/28/06																												
3		RECEIVER FRONTEND	78 days	Tue 6/13/06	Thu 9/28/06																												
4		CONSTRUCTION OF INSERTS	67 days	Tue 6/13/06	Wed 9/13/06																												
5		Assemble Frame	67 days	Tue 6/13/06	Wed 9/13/06																												
6		Fabricate Feehorn Plates	39 days	Tue 6/13/06	Fri 8/4/06																												
7		Drawings	3 days	Tue 6/13/06	Thu 6/15/06																												
8		Fabrication	9 days	Thu 6/15/06	Wed 6/28/06																												
9		Annealing	3 days	Mon 7/3/06	Wed 7/5/06																												
10		Au Plating of plates	12 days	Thu 7/20/06	Fri 8/4/06																												
11		Machine standoffs	2 days	Tue 8/1/06	Wed 8/2/06																												
12		Wiring harnesses	10 days	Mon 6/26/06	Fri 7/7/06																												
13		Insert 1:	2 days	Tue 9/5/06	Wed 9/6/06																												
14		Replace 4K plate & spacer for 1st insert	2 days	Tue 9/5/06	Wed 9/6/06																												
15		Add 40mil shims to standoffs on 1st insert	2 days	Tue 9/5/06	Wed 9/6/06																												
16		Solder 70K straps from SS lines to 70K plt.	2 days	Tue 9/5/06	Wed 9/6/06																												
17		Wire temp. sensors and electromagnet	2 days	Tue 9/5/06	Wed 9/6/06																												
18		Attach cooling straps	2 days	Tue 9/5/06	Wed 9/6/06																												
19		Insert 2:	28 days	Mon 8/7/06	Wed 9/13/06																												
20		Assembly	5 days	Thu 9/7/06	Wed 9/13/06																												
21		Wire temp. sensor and electromagnet	5 days	Thu 9/7/06	Wed 9/13/06																												
22		Trimming SS cables and attaching SMA connectors	5 days	Thu 9/7/06	Wed 9/13/06																												
23		Solder 70K straps from SS lines to 70K plt.	5 days	Thu 9/7/06	Wed 9/13/06																												
24		Install Electromagnet	1 day	Mon 8/7/06	Mon 8/7/06																												
25		LO waveguide installation	13 days	Wed 8/23/06	Fri 9/8/06																												
26		LO waveguide shim	13 days	Wed 8/23/06	Fri 9/8/06																												
27		Measure	0.25 days	Wed 8/23/06	Wed 8/23/06																												
28		Fabricate	13 days	Wed 8/23/06	Fri 9/8/06																												
29		Vacuum test feedthroughs	0.13 days	Wed 6/21/06	Wed 6/21/06																												
30		Component cooling straps	13 days	Mon 8/21/06	Wed 9/6/06																												
31		Fabrication	3 days	Mon 8/21/06	Wed 8/23/06																												
32		Au plating	10 days	Thu 8/24/06	Wed 9/6/06																												
33																																	
34		DEWAR UPGRADES	54 days	Mon 7/17/06	Thu 9/28/06																												
35		4K Spider	51 days	Thu 7/20/06	Thu 9/28/06																												
36		Drawings	1 day	Thu 7/20/06	Thu 7/20/06																												
37		Fabrication	15 days	Mon 8/7/06	Fri 8/25/06																												
38		Annealing	0 days	Fri 8/25/06	Fri 8/25/06																												
39		Au plating	0 days	Fri 8/25/06	Fri 8/25/06																												
40		Spider cooling straps	41 days	Thu 8/3/06	Thu 9/28/06																												
41		Order copper	27 days	Thu 8/3/06	Fri 9/8/06																												
42		Fabrication	14 days	Mon 9/11/06	Thu 9/28/06																												
43																																	
44		Heaters	30 days	Mon 7/17/06	Fri 8/25/06																												
45		Order & receive cartridge heaters	0.13 days	Mon 7/17/06	Mon 7/17/06																												
46		Heater clamps	30 days	Mon 7/17/06	Fri 8/25/06																												

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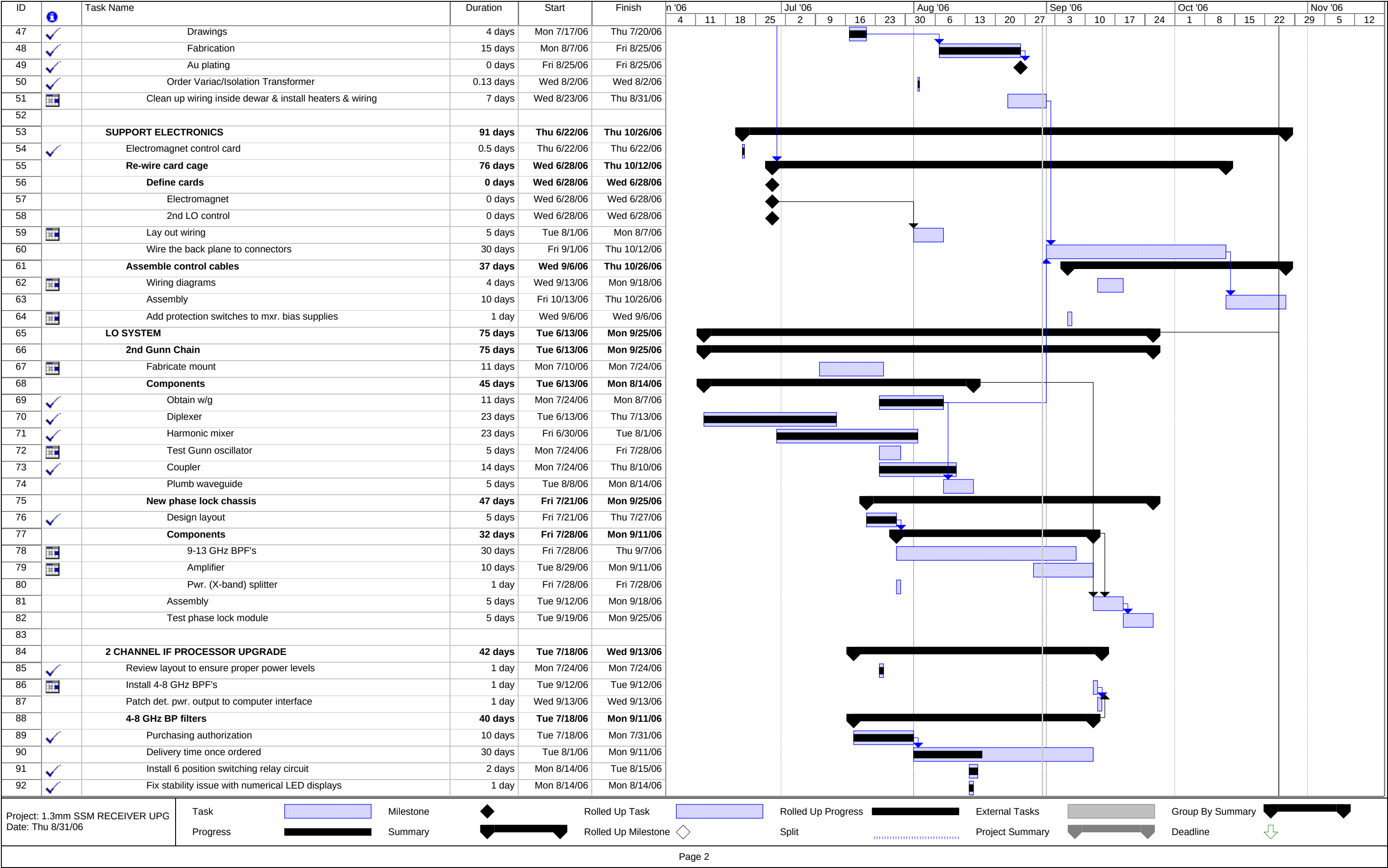
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						4	11	18	25	2	9	16	23	30	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12				
93		Layout modification of the front panel	1 day	Tue 8/15/06	Tue 8/15/06																												
94																																	
95		INTERIM RECEIVER SELECTOR	19 days	Wed 7/26/06	Mon 8/21/06																												
96		Layout	10 days	Wed 7/26/06	Tue 8/8/06																												
97		Components	16 days	Wed 7/26/06	Wed 8/16/06																												
98		Transfer switches	10 days	Thu 8/3/06	Wed 8/16/06																												
99		Chassis	1 day	Wed 7/26/06	Wed 7/26/06																												
100		Type-N (f) to SMA (f) bulkhead connectors	5 days	Wed 7/26/06	Tue 8/1/06																												
101		Assembly	3 days	Thu 8/17/06	Mon 8/21/06																												
102																																	
103		IF CONVERTER SYSTEM	63 days	Wed 7/12/06	Fri 10/6/06																												
104		IF CONVERTERS	63 days	Wed 7/12/06	Fri 10/6/06																												
105		Plan layout	3.5 days	Mon 8/21/06	Thu 8/24/06																												
106		Converter crate	30 days	Mon 8/7/06	Fri 9/15/06																												
107		Design	5 days	Mon 8/7/06	Fri 8/11/06																												
108		Fabrication	20 days	Mon 8/21/06	Fri 9/15/06																												
109		Power supply/LO box	29 days	Mon 8/7/06	Thu 9/14/06																												
110		Power supply box design	3 days	Mon 8/7/06	Wed 8/9/06																												
111		LO box design	7 days	Wed 8/9/06	Thu 8/17/06																												
112		Fabrication	20 days	Fri 8/18/06	Thu 9/14/06																												
113		Components	63 days	Wed 7/12/06	Fri 10/6/06																												
114		4 - 8 GHz amplifiers	15 days	Tue 8/29/06	Mon 9/18/06																												
115		4 - 6 GHz output mixers	15 days	Wed 7/12/06	Tue 8/1/06																												
116		10. 4/1.3 GHz BPF's (Qty. 5)	40 days	Tue 7/18/06	Mon 9/11/06																												
117		Purchasing authorization	10 days	Tue 7/18/06	Mon 7/31/06																												
118		Delivery once ordered	30 days	Tue 8/1/06	Mon 9/11/06																												
119		15. 4GHz BPF's	40 days	Tue 7/18/06	Mon 9/11/06																												
120		Purchasing authorization	10 days	Tue 7/18/06	Mon 7/31/06																												
121		Delivery once ordered	30 days	Tue 8/1/06	Mon 9/11/06																												
122		IF controller ("Bud") board	26 days	Tue 8/1/06	Tue 9/5/06																												
123		PC board layout	11 days	Tue 8/1/06	Tue 8/15/06																												
124		Fabrication/assembly & test	15 days	Wed 8/16/06	Tue 9/5/06																												
125		100 MHz Phase lock source & pwr splitters	40 days	Mon 8/14/06	Fri 10/6/06																												
126		Power Splitters	5 days	Mon 8/7/06	Fri 8/11/06																												
127		15.4 GHz Oscillator (DRO)	45 days	Mon 7/24/06	Fri 9/22/06																												
128																																	
129		SPECTROMETER MODIFICAITONS	48 days	Mon 7/24/06	Wed 9/27/06																												
130		Bring spectrometers down from the mountain	3 days	Mon 8/14/06	Wed 8/16/06																												
131		AOS OSCILLATOR MODIFICATION	48 days	Mon 7/24/06	Wed 9/27/06																												
132		7.1 GHz Oscillators (DRO)	45 days	Mon 7/24/06	Fri 9/22/06																												
133		Installation	3 days	Mon 9/25/06	Wed 9/27/06																												
134		Modify IF distribution to the FFB's	25 days	Mon 8/21/06	Fri 9/22/06																												
135		Order power splitters	20 days	Mon 8/21/06	Fri 9/15/06																												
136		Installation	5 days	Mon 9/18/06	Fri 9/22/06																												
137																																	
138		SOFTWARE	10 days	Fri 10/27/06	Thu 11/9/06																												

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						4	11	18	25	2	9	16	23	30	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12
139		Reassign bits from reallocating cards in card cage	2 days	Fri 10/27/06	Mon 10/30/06																								
140		Update the user interface screen	10 days	Fri 10/27/06	Thu 11/9/06																								
141																													
142		TEST RECEIVER	5 days	Fri 11/10/06	Thu 11/16/06																								
143																													
144		Isolation of the dewar electronics from the compressor	10 days	Fri 9/1/06	Thu 9/14/06																								
145		He line isolators	10 days	Fri 9/1/06	Thu 9/14/06																								
146		Fabricate	10 days	Fri 9/1/06	Thu 9/14/06																								
147		Isolation transformer for the compressor	6 days	Fri 9/1/06	Fri 9/8/06																								



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