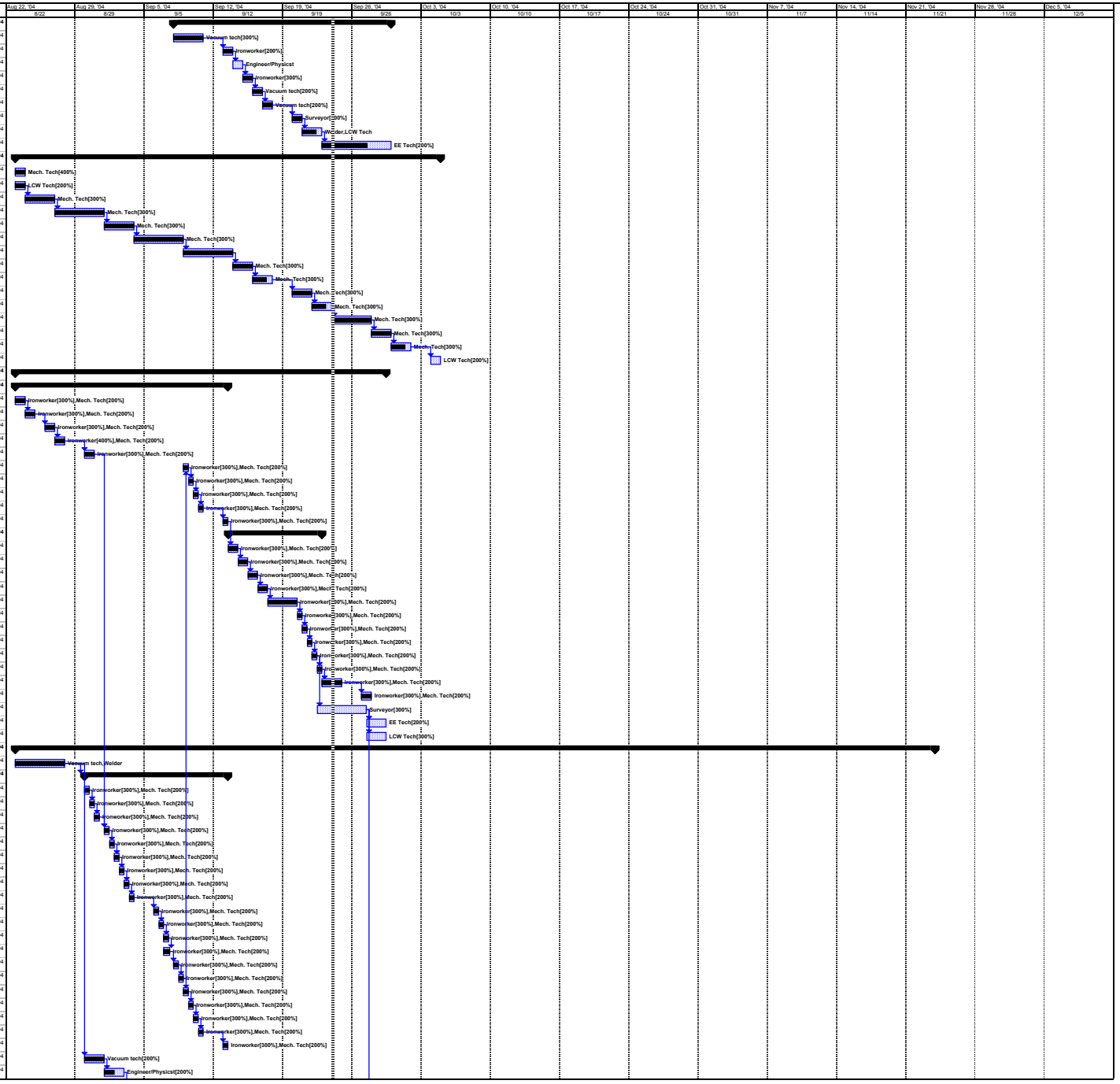
NuMI SUMMER '04 SHUTDOWN

ID	Task Name	Duration	Start	Finish
1	**Kicker Installation**	**16 days**	**9/8/04**	**9/29/04**
2	Re-locate MI Instrumentation from NuMI Kicker Region (MI602)	3 days	9/8/04	9/10/04
3	Install Kicker Magnet Stands	1 day	9/13/04	9/13/04
4	Polarity check of Kicker Magnet	1 day	9/14/04	9/14/04
5	Install Kicker Magnets	1 day	9/15/04	9/15/04
6	Connect Kicker vacuum	1 day	9/16/04	9/16/04
7	Pump down and leak check	1 day	9/17/04	9/17/04
8	Rough Align Kicker Magnets	1 day	9/20/04	9/20/04
9	Connect fluorinert cooling system	2 days	9/21/04	9/22/04
10	Terminate and connect Kicker Cables	5 days	9/23/04	9/29/04
11	**Complete HV101 Recycler Shielding Installation**	**31 days**	**8/23/04**	**10/4/04**
12	Rotate recycler IP609	1 day	8/23/04	8/23/04
13	Isolate and disconnect waterlines	1 day	8/23/04	8/23/04
14	HV101-2 main shielding	3 days	8/24/04	8/26/04
15	HV101-3 main shields	3 days	8/27/04	8/31/04
16	HV101-4 main shields	3 days	9/1/04	9/3/04
17	HV101-5 main shields	3 days	9/4/04	9/8/04
18	Reconnect jumpers and cables	3 days	9/9/04	9/13/04
19	HV101-1,2 gap shields	2 days	9/14/04	9/15/04
20	HV101-1 endshields	2 days	9/16/04	9/17/04
21	HV101-2 endshields	2 days	9/20/04	9/21/04
22	HV101-3 endshields	2 days	9/22/04	9/23/04
23	HV101-3,4 gap shields	2 days	9/24/04	9/27/04
24	HV101-4,5 gap shields	2 days	9/28/04	9/29/04
25	HV101-5 endshields	2 days	9/30/04	10/1/04
26	Reconnect and test LCW	1 day	10/4/04	10/4/04
27	**Trim Magnet Installation**	**27.5 days**	**8/23/04**	**9/29/04**
28	**Install Trim Magnets & Stands in Extraction Area & xover**	**15.5 days**	**8/23/04**	**9/13/04**
29	HT102 support	1 day	8/23/04	8/23/04
30	Vt103 support	1 day	8/24/04	8/24/04
31	HT105 support	1 day	8/26/04	8/26/04
32	VT106 support	1 day	8/27/04	8/27/04
33	HT107 support	1 day	8/30/04	8/30/04
34	Transport and mount HT102	0.5 days	9/9/04	9/9/04
35	Transport and mount VT103	0.5 days	9/9/04	9/9/04
36	Transport and mount HT105	0.5 days	9/10/04	9/10/04
37	Transport and mount VT106	0.5 days	9/10/04	9/10/04
38	Transport and mount HT107	0.5 days	9/13/04	9/13/04
39	**Install Stub Trim Magnets & Stands in Stub**	**7.5 days**	**9/13/04**	**9/22/04**
40	VT108 support	1 day	9/13/04	9/14/04
41	HT109 support	1 day	9/14/04	9/15/04
42	VT110 support	1 day	9/15/04	9/16/04
43	VT111 support	1 day	9/16/04	9/17/04
44	HT112 support	1 day	9/17/04	9/20/04
45	Transport and mount VT108	0.5 days	9/20/04	9/20/04
46	Transport and mount HT109	0.5 days	9/21/04	9/21/04
47	Transport and mount VT110	0.5 days	9/21/04	9/21/04
48	Transport and mount VT111	0.5 days	9/22/04	9/22/04
49	Transport and mount HT112	0.5 days	9/22/04	9/22/04
50	Insall SY 200 turn bump magnet stand	2 days	9/23/04	9/24/04
51	Transport & mount SY 200 turn bump magnet	1 day	9/27/04	9/27/04
52	Rough Align Trim Magnets	3 days	9/22/04	9/27/04
53	Electrical connections to trim magnets & 200 turn bump	2 days	9/27/04	9/29/04
54	LCW connections	2 days	9/27/04	9/29/04
55	**Instrumentation Installation**	**67 days**	**8/23/04**	**11/23/04**
56	Install carrier pipe pumps	5 days	8/23/04	8/27/04
57	**Install instrumentation supports**	**10.5 days**	**8/30/04**	**9/13/04**
58	VP101support	0.5 days	8/30/04	8/30/04
59	HP101 support	0.5 days	8/30/04	8/30/04
60	PM101 support	0.5 days	8/31/04	8/31/04
61	RWM support	0.5 days	9/1/04	9/1/04
62	Toroid support	0.5 days	9/1/04	9/1/04
63	HP102 support	0.5 days	9/2/04	9/2/04
64	VP103 support	0.5 days	9/2/04	9/2/04
65	HP104 support	0.5 days	9/3/04	9/3/04
66	VP105 support	0.5 days	9/3/04	9/3/04
67	PM105 support	0.5 days	9/6/04	9/6/04
68	VP106 support	0.5 days	9/6/04	9/6/04
69	HP107 support	0.5 days	9/7/04	9/7/04
70	PM107 support	0.5 days	9/7/04	9/7/04
71	VP108 support	0.5 days	9/8/04	9/8/04
72	PM108 support	0.5 days	9/8/04	9/8/04
73	HP109 suupport	0.5 days	9/9/04	9/9/04
74	VP110 support	0.5 days	9/9/04	9/9/04
75	VP111 support	0.5 days	9/10/04	9/10/04
76	HP112 support	0.5 days	9/10/04	9/10/04
77	PM112 support	0.5 days	9/13/04	9/13/04
78	Swab out magnets	2 days	8/30/04	8/31/04
79	Check magnets for obstructions	2 days	9/1/04	9/2/04



Project: Summer'04_Shutdown
Date: 9/24/04

Task | Split | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Split | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary

NuMI SUMMER '04 SHUTDOWN

ID	Task Name	Duration	Start	Finish
80	**Install Instrumentation & vacuum pipe (BPM's, PMs, toroid, RWM)**	**20 days**	**9/3/04**	**9/30/04**
81	Install VP101	1 day	9/3/04	9/3/04
82	Install HP101	1 day	9/6/04	9/6/04
83	Install PM101	1 day	9/7/04	9/7/04
84	Install RWM	1 day	9/8/04	9/8/04
85	Install Toroid	1 day	9/9/04	9/9/04
86	Install HP102	1 day	9/10/04	9/10/04
87	Install VP103	1 day	9/13/04	9/13/04
88	Install HP104	1 day	9/14/04	9/14/04
89	Install VP105	1 day	9/15/04	9/15/04
90	Install PM105	1 day	9/16/04	9/16/04
91	Install VP106	1 day	9/17/04	9/17/04
92	Install HP107	1 day	9/20/04	9/20/04
93	Install PM107	1 day	9/21/04	9/21/04
94	Install VP108	1 day	9/22/04	9/22/04
95	Install PM108	1 day	9/23/04	9/23/04
96	Install HP109	1 day	9/24/04	9/24/04
97	Install VP110	1 day	9/27/04	9/27/04
98	Install VP111	1 day	9/28/04	9/28/04
99	Install HP112	1 day	9/29/04	9/29/04
100	Install PM112	1 day	9/30/04	9/30/04
101	Install loss monitors	10 days	10/1/04	10/14/04
102	Rough align Instrumentation & vacuum pipe	7 days	10/8/04	10/19/04
103	Install vacuum pumps and stands	10 days	10/19/04	11/2/04
104	Terminate and connect Cables (Instrumentation, vacuum, etc.)	17 days	10/19/04	11/23/04
105	Pump down and Commission Vacuum System	5 days	11/2/04	11/9/04
106	**Electrical Work**	**22 days**	**8/23/04**	**9/21/04**
107	Pull Remaining Cables (Instr.,TLM, vacuum, etc.)	22 days	8/23/04	9/21/04
108	**Alignment Work**	**77.5 days**	**8/23/04**	**12/8/04**
109	Install control in carrier tunnel (upper hobbit)	1 day	8/23/04	8/23/04
110	Rough align stub magnets (6)	3 days	8/24/04	8/26/04
111	Re-reference HV101-1 and HV101-6	2 days	8/27/04	8/30/04
112	Remove 2 sight riser plugs at MI-60	1 day	8/26/04	8/26/04
113	Vertical drops @ 4 SR (2 @MI-60 + SR1+SR2)	4 days	8/31/04	9/3/04
114	Level run between MI-60 to SR2 (Pre-Tgt) aprox 1500 ft	5 days	9/6/04	9/10/04
115	Tie Stub to Pre-Tgt network (through Carrier Tunnel) area	5 days	9/13/04	9/17/04
116	Tie Stub network to MI-60 (ties to SRs)	3 days	9/20/04	9/22/04
117	Final alignment of magnets MI thru Q104	9 days	9/27/04	10/8/04
118	Final alignment of magnets and inst. Q104 thru NuMI stub	26 days	10/19/04	11/24/04
119	Final alignment of magnets and inst. ds of hobbit door thru Horn2	10 days	11/24/04	12/8/04
120	Re-align D614 at MI-60	0.5 days	11/25/04	11/25/04
121	**Miscellaneous Jobs**	**68 days**	**8/23/04**	**11/24/04**
122	Remove 614-1 MI dipole and store in alcove	0.5 days	8/23/04	8/23/04
123	Install drip tray over LCW pipe	1 day	8/23/04	8/23/04
124	Remove hoses on Q111,Q112	0.25 days	8/24/04	8/24/04
125	Install cooling plates on Q111,Q112	2 days	8/24/04	8/26/04
126	Connect LCW to Q111,Q112 and cooling plates	1 day	8/26/04	8/27/04
127	Install additional fans	2 days	8/27/04	8/31/04
128	Recycler Dept.specify final locations of temp probes	1 day	8/31/04	9/1/04
129	Move temp probes to new locations if necessary	1 day	9/1/04	9/2/04
130	Reinstall 614-1 at MI-60	0.5 days	11/24/04	11/24/04
131	**Final Preparations for Beam**	**66.5 days**	**8/23/04**	**11/23/04**
132	Power supply tests (evenings)	30 days	10/12/04	11/22/04
133	Subsystem checkout	5 days	8/23/04	8/27/04
134	Field direction checks (all magnets) (end of shutdown)	1 day	8/30/04	8/30/04
135	Beamline Testing	10 days	11/9/04	11/23/04
136	***Ready for commissioning with beam***	1 day	11/25/04	11/25/04
137	***Scheduled End of Shutdown (13 Weeks)***	1 day	11/22/04	11/22/04

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