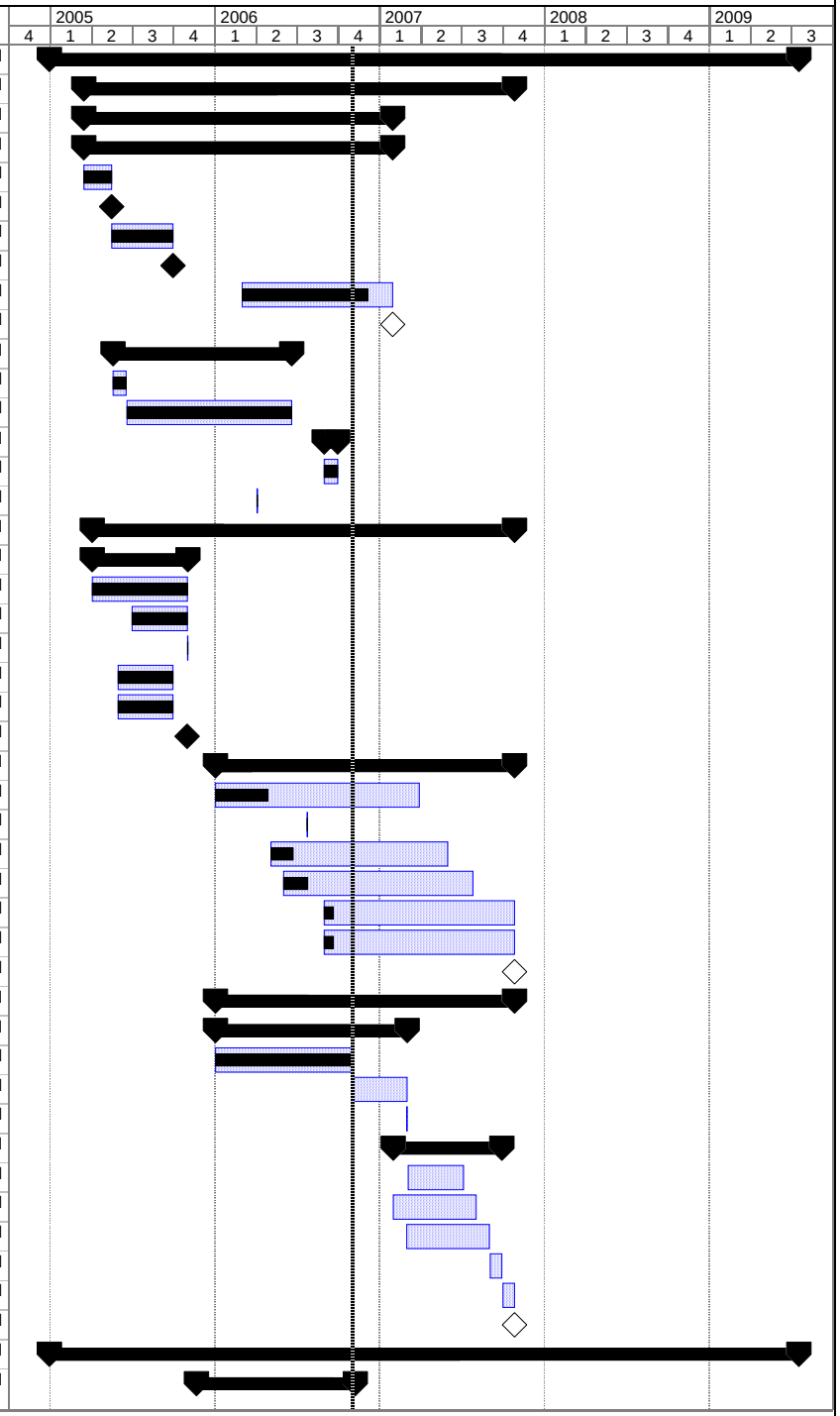
Proton Plan

8/10/06

WBS	Name	St	Fin	Planned	Act %	Float
1	**Proton Plan**	**9/30/04**	**4/17/09**	**0.49**	**60%**	**0 d**
1.1	**Linac Upgrades**	**12/15/04**	**7/27/07**	**0.75**	**44%**	**0 d**
1.1.1	**Linac PA Vulnerability**	**12/15/04**	**10/30/06**	**0.99**	**94%**	**39 d**
1.1.1.1	**Linac PA Task Force**	**12/15/04**	**10/30/06**	**0.85**	**89%**	**39 d**
1.1.1.1.1	Linac Task Force: Phase 1	12/15/04	2/14/05	1	100%	0 d
1.1.1.1.2	Linac Task Force Phase 1 Report Issued	2/14/05	2/14/05	1	100%	0 d
1.1.1.1.3	Linac Task Force: Phase 2	2/15/05	6/30/05	1	100%	0 d
1.1.1.1.4	Linac Task Force Phase 2 Report Issued	6/30/05	6/30/05	1	100%	0 d
1.1.1.1.5	Linac Task Force 2	12/1/05	10/30/06	0.83	83%	39 d
1.1.1.1.6	Linac Task Force 2 Complete	10/30/06	10/30/06	0	0%	39 d
1.1.1.2	**7835 Amplifier Tubes Spares**	**2/18/05**	**3/20/06**	**1**	**100%**	**0 d**
1.1.1.2.1	Linac Task Force PA Prepare Order	2/18/05	3/18/05	1	100%	0 d
1.1.1.2.2	Linac Task Force PA Award & Delivery (9)	3/21/05	3/20/06	1	100%	0 d
1.1.1.3	**Thales Prototype Facility (Deleted in CR#18)**	**6/1/06**	**6/30/06**	**1**	**100%**	**0 d**
1.1.1.3.1	Thales Prototype Facility (Deleted in CR#18)	6/1/06	6/30/06	1	100%	0 d
1.1.1.4	Rebuild Hydrogen Furnace	1/3/06	1/3/06	1	100%	0 d
1.1.2	**Linac Quad Power Supplies**	**1/3/05**	**7/27/07**	**0.46**	**32%**	**0 d**
1.1.2.1	**Linac Quad PS: Design & Prototype**	**1/3/05**	**8/2/05**	**1**	**100%**	**0 d**
1.1.2.1.1	Linac Quad PS Conceptual Specifications	1/3/05	8/1/05	1	100%	0 d
1.1.2.1.2	Linac Quad PS Conceptual 300 amp Test	4/1/05	8/1/05	1	100%	0 d
1.1.2.1.3	Linac Quad PS Conceptual Review Prototype	8/2/05	8/2/05	1	100%	0 d
1.1.2.1.4	Linac Quad PS Conceptual Design	3/1/05	6/30/05	1	100%	0 d
1.1.2.1.5	Linac Quad PS Conceptual Inductor Design	3/1/05	6/30/05	1	100%	0 d
1.1.2.1.6	Linac Quad PS Project Decision	8/1/05	8/1/05	1	100%	0 d
1.1.2.2	**Linac Quad PS Upgrade - Card Replacement**	**10/3/05**	**7/27/07**	**0.35**	**12%**	**0 d**
1.1.2.2.1	Linac Quad PS Upgrade Design	10/3/05	12/28/06	0.67	25%	54 d
1.1.2.2.2	Linac Quad PS Card Replacement Design Review (Deleted in CR#11)	4/24/06	4/24/06	1	100%	0 d
1.1.2.2.3	Linac Quad PS Upgrade Drafting	2/3/06	3/1/07	0.53	13%	54 d
1.1.2.2.4	Linac Quad PS Upgrade Procurement	3/3/06	4/26/07	0	13%	54 d
1.1.2.2.5	Linac Quad PS Upgrade Test	6/1/06	7/27/07	0.3	5%	0 d
1.1.2.2.6	Linac Quad PS Upgrade Install	6/1/06	7/27/07	0.22	5%	0 d
1.1.2.2.7	Linac Quad PS Upgrade Installation Complete	7/27/07	7/27/07	0	0%	0 d
1.1.4	**200 Mhz LLRF Upgrade**	**10/3/05**	**7/27/07**	**0.38**	**31%**	**0 d**
1.1.4.1	**200 Mhz LLRF Engineering**	**10/3/05**	**12/1/06**	**0.65**	**70%**	**0 d**
1.1.4.1.1	200 Mhz LLRF Modeling	10/3/05	8/1/06	1	99%	0 d
1.1.4.1.2	200 Mhz LLRF Engineering	8/2/06	12/1/06	0.55	0%	0 d
1.1.4.1.3	200 Mhz LLRF Design Review	12/1/06	12/1/06	0	0%	0 d
1.1.4.2	**200 Mhz LLRF Procure/Assy/Test/Install**	**11/1/06**	**6/29/07**	**0**	**0%**	**0 d**
1.1.4.2.1	200 Mhz LLRF Procurement	12/4/06	4/5/07	0	0%	0 d
1.1.4.2.2	200 Mhz LLRF Assembly	11/1/06	5/3/07	0	0%	0 d
1.1.4.2.3	200 Mhz LLRF Testing	12/1/06	6/1/07	0	0%	0 d
1.1.4.2.4	200 Mhz LLRF Installation	6/4/07	6/29/07	0	0%	0 d
1.1.4.3	200 Mhz LLRF Commissioning	7/2/07	7/27/07	0	0%	0 d
1.1.4.4	200 Mhz LLRF Installation Complete	7/27/07	7/27/07	0	0%	0 d
1.2	**Booster Upgrades**	**9/30/04**	**4/17/09**	**0.31**	**55%**	**0 d**
1.2.1	**Booster RF Duty Cycle Limits & Means of Improving Booster RF Reliability for 9Hz Operation**	**8/22/05**	**8/8/06**	**1**	**86%**	**675 d**



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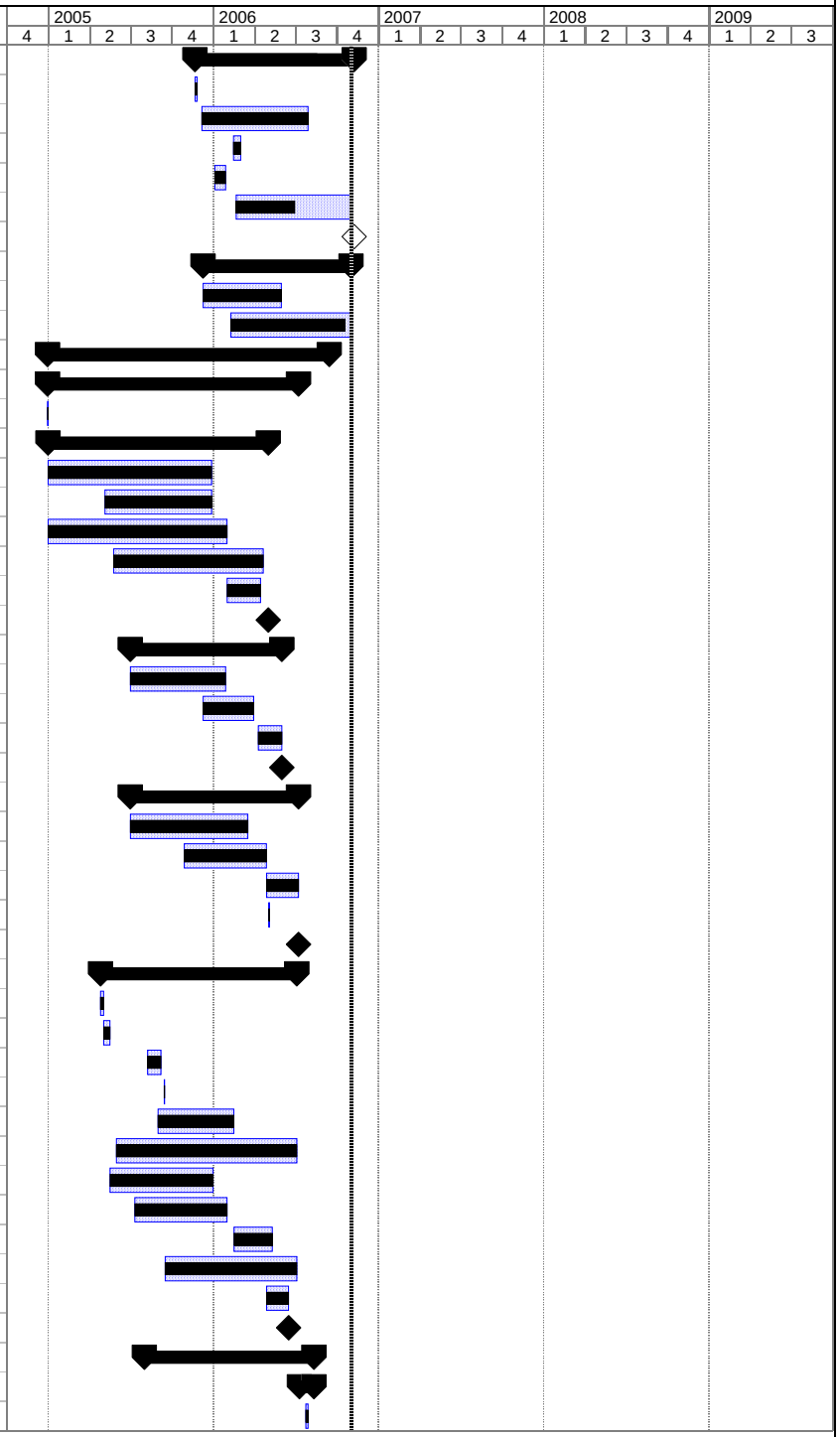
WBS	Name	St	Fin	Planned	Act %	Float
1.2.1.1	**Feasibility of Booster RF Operating @ 9Hz**	**8/22/05**	**8/8/06**	**1**	**76%**	**17 d**
1.2.1.1.1	Determine Duty Cycle Limit for Booster West Gallery Transformer (Y02-US-01)	8/22/05	8/26/05	1	100%	0 d
1.2.1.1.2	Investigate Reprogramming Ferrite Bias Program to Reduce RMS Current	9/6/05	4/28/06	1	100%	0 d
1.2.1.1.3	Determine Duty Cycle Limit for Booster West Gallery Ferrite Bias Supply Transformers	11/15/05	11/30/05	1	100%	0 d
1.2.1.1.4	Review Duty Cycle Limit Study Results w/FESS Engineering Electrical Consultant	10/5/05	10/28/05	1	100%	0 d
1.2.1.1.5	Document Findings & Recommendations w/Report	11/21/05	8/1/06	1	50%	17 d
1.2.1.1.6	Booster RF Report Issued	8/8/06	8/8/06	1	0%	17 d
1.2.1.2	**Strategies for Improving Booster RF Reliability @ 9Hz**	**9/9/05**	**8/1/06**	**1**	**97%**	**680 d**
1.2.1.2.1	Review Station Down Time for Determining Equip Vulnerability	9/9/05	2/28/06	1	100%	0 d
1.2.1.2.2	Develop Action Plan to Improve Reliability	11/9/05	8/1/06	1	95%	680 d
1.2.2	**OrBump System**	**9/30/04**	**6/14/06**	**1**	**100%**	**0 d**
1.2.2.1	**OrBump System Magnets Design & Production**	**9/30/04**	**4/7/06**	**1**	**100%**	**0 d**
1.2.2.1.1	OrBump Magnet TD Division FY04 Costs	9/30/04	9/30/04	1	100%	0 d
1.2.2.1.2	**OrBump Magnets**	**10/1/04**	**1/31/06**	**1**	**100%**	**0 d**
1.2.2.1.2.	Design OrBump Magnets (3+3 spares)	10/1/04	9/27/05	1	100%	0 d
1.2.2.1.2.	Procure Components & Tooling for OrBump Magnets (3+3 spares)	2/4/05	9/27/05	1	100%	0 d
1.2.2.1.2.	Assemble, Test & Rework 1st Article OrBump Magnet	10/1/04	10/31/05	1	100%	0 d
1.2.2.1.2.	Assemble Final 5 OrBump Magnets (2+3 spares)	2/23/05	1/19/06	1	100%	0 d
1.2.2.1.2.	Test Final 5 OrBump Magnets (2+3 spares) (AD)	11/1/05	1/13/06	1	100%	0 d
1.2.2.1.2.	OrBump Magnets Ready for Install on Girder	1/31/06	1/31/06	1	100%	0 d
1.2.2.1.3	**OrBump Stripline**	**4/1/05**	**3/1/06**	**1**	**100%**	**0 d**
1.2.2.1.3.	Design OrBump Stripline	4/1/05	10/28/05	1	100%	0 d
1.2.2.1.3.	Procure OrBump Stripline	9/9/05	12/29/05	1	100%	0 d
1.2.2.1.3.	Assemble OrBump Stripline	1/9/06	3/1/06	1	100%	0 d
1.2.2.1.3.	OrBump Stripline Assy Complete	3/1/06	3/1/06	1	100%	0 d
1.2.2.1.4	**OrBump Girder**	**4/1/05**	**4/7/06**	**1**	**100%**	**0 d**
1.2.2.1.4.	Design OrBump Girder Assembly	4/1/05	12/16/05	1	100%	0 d
1.2.2.1.4.	Procure OrBump Girder Assembly	7/29/05	1/26/06	1	100%	0 d
1.2.2.1.4.	Mount OrBump Components on Girder	1/27/06	4/7/06	1	100%	0 d
1.2.2.1.4.	Survey OrBump Magnets & Girder	2/1/06	2/2/06	1	100%	0 d
1.2.2.1.4.	OrBump Girder Assy Complete	4/7/06	4/7/06	1	100%	0 d
1.2.2.2	**OrBump System Power Supply**	**1/25/05**	**4/3/06**	**1**	**100%**	**0 d**
1.2.2.2.1	OrBump P.S. Specifications	1/25/05	1/31/05	1	100%	0 d
1.2.2.2.2	OrBump P.S. Simulations	2/1/05	2/14/05	1	100%	0 d
1.2.2.2.3	OrBump P.S. Design Review Preparation	5/9/05	6/7/05	1	100%	0 d
1.2.2.2.4	OrBump P.S. Design Review	6/15/05	6/15/05	1	100%	0 d
1.2.2.2.5	OrBump P.S. Cabinet Layout	6/1/05	11/15/05	1	100%	0 d
1.2.2.2.6	OrBump P.S. General Procurement	3/1/05	4/3/06	1	100%	0 d
1.2.2.2.7	OrBump P.S. Procure Capacitors	2/15/05	9/30/05	1	100%	0 d
1.2.2.2.8	OrBump Charging Power Supply Assembly	4/11/05	10/31/05	1	100%	0 d
1.2.2.2.9	OrBump P.S. Cabinet Assembly	11/16/05	2/8/06	1	100%	0 d
1.2.2.2.10	OrBump P.S. Assemble Controls	6/17/05	4/3/06	1	100%	0 d
1.2.2.2.11	OrBump P.S. Initial Testing	1/27/06	3/16/06	1	100%	0 d
1.2.2.2.12	OrBump Power Supply Ready for Installation	3/16/06	3/16/06	1	100%	0 d
1.2.2.3	**OrBump Syst Installation**	**5/2/05**	**5/11/06**	**1**	**100%**	**0 d**
1.2.2.3.1	**Installation**	**4/10/06**	**5/11/06**	**1**	**100%**	**0 d**
1.2.2.3.1.	Install OrBump Power Supply	4/24/06	4/28/06	1	100%	0 d



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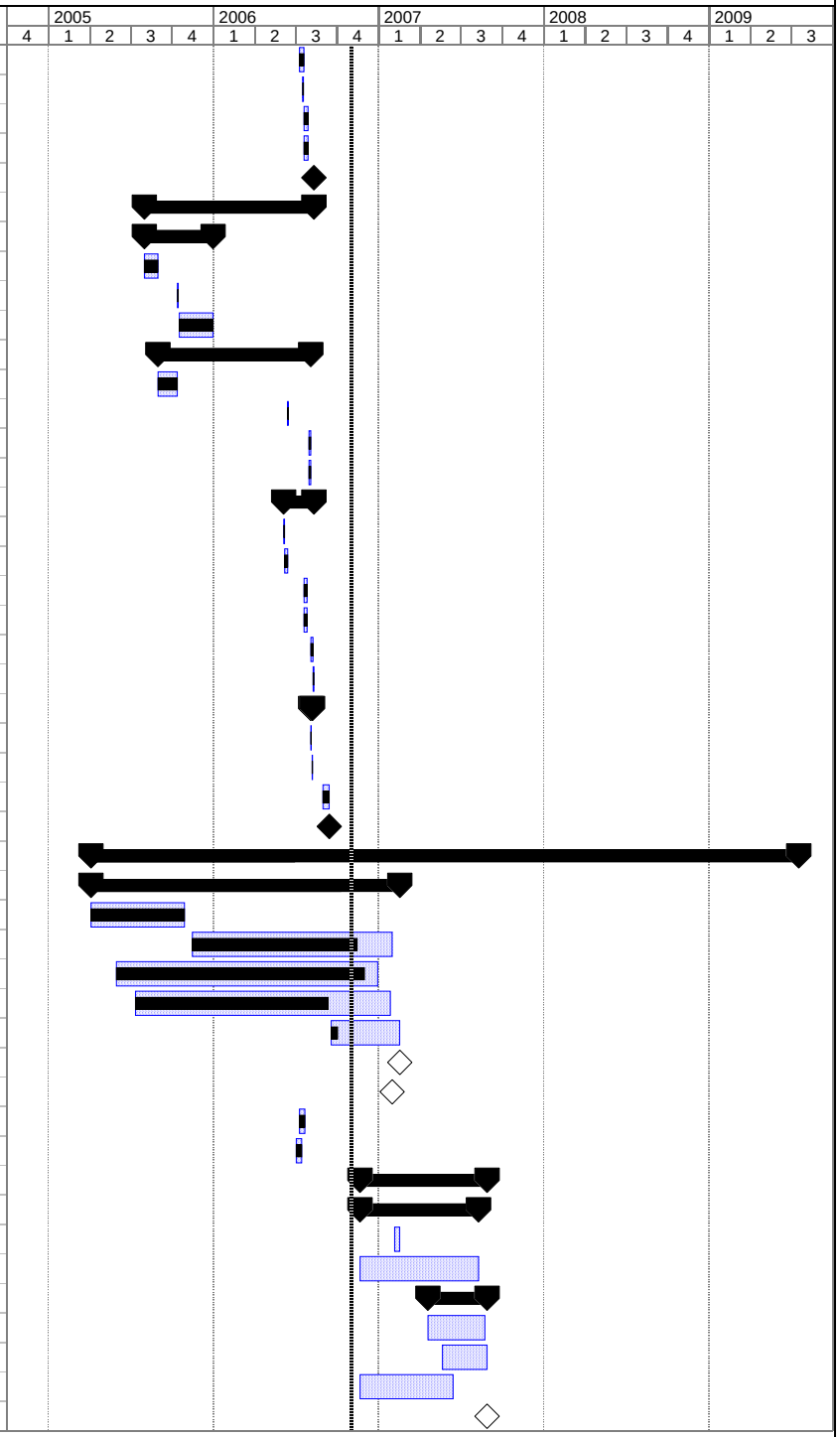
WBS	Name	St	Fin	Planned	Act %	Float
1.2.2.3.1.	Install OrBump Magnet System	4/10/06	4/19/06	1	100%	0 d
1.2.2.3.1.	Pull Cables/Terminate/Install Head	4/17/06	4/18/06	1	100%	0 d
1.2.2.3.1.	OrBump System Survey - AD	4/20/06	4/28/06	1	100%	0 d
1.2.2.3.1.	OrBump System Survey - PPD	4/20/06	4/28/06	1	100%	0 d
1.2.2.3.1.	OrBump System Installation Complete	5/11/06	5/11/06	1	100%	0 d
1.2.2.3.2	**400 MEV Line Reconfiguration**	**5/2/05**	**5/11/06**	**1**	**100%**	**0 d**
1.2.2.3.2.	**400 MeV Beamline Design**	**5/2/05**	**9/30/05**	**1**	**100%**	**0 d**
1.2.2.3.2.	400 MeV Optics Design	5/2/05	5/31/05	1	100%	0 d
1.2.2.3.2.	400 MeV Beam Sheet	7/14/05	7/15/05	1	100%	0 d
1.2.2.3.2.	400 MeV Drawing	7/18/05	9/30/05	1	100%	0 d
1.2.2.3.2.	**400 MeV Alignment**	**6/1/05**	**5/4/06**	**1**	**100%**	**0 d**
1.2.2.3.2.	400 MeV Beam Sheet Based on As-found '04	6/1/05	7/13/05	1	100%	0 d
1.2.2.3.2.	400 MeV Delimiter New Stationing	3/15/06	3/15/06	1	100%	0 d
1.2.2.3.2.	400 MeV Survey - AD	5/1/06	5/4/06	1	100%	0 d
1.2.2.3.2.	400 MeV Survey - PPD	5/1/06	5/4/06	1	100%	0 d
1.2.2.3.2.	**400 MeV Installation**	**3/6/06**	**5/11/06**	**1**	**100%**	**0 d**
1.2.2.3.2.	400 MeV Vent Vacuum/Disconnect Electrical/LCW	3/6/06	3/7/06	1	100%	0 d
1.2.2.3.2.	400 MeV Remove Magnets & Other Components	3/8/06	3/14/06	1	100%	0 d
1.2.2.3.2.	400 MeV Install Magnets & Other Components - AD	4/20/06	4/26/06	1	100%	0 d
1.2.2.3.2.	400 MeV Install Magnets & Other Components - PPD	4/20/06	4/26/06	1	100%	0 d
1.2.2.3.2.	400 MeV Connect Vacuum System/Pump Down/Leak Check	5/5/06	5/9/06	1	100%	0 d
1.2.2.3.2.	400 MeV Connect Water/Electrical	5/10/06	5/11/06	1	100%	0 d
1.2.2.3.2.	**400 MeV Electrical**	**5/5/06**	**5/8/06**	**1**	**100%**	**0 d**
1.2.2.3.2.	400 MeV Isolate MH2 Power Cables	5/5/06	5/5/06	1	100%	0 d
1.2.2.3.2.	400 MeV MH2 PS Change Gain	5/8/06	5/8/06	1	100%	0 d
1.2.2.4	Commission OrBump System	6/1/06	6/14/06	1	100%	0 d
1.2.2.5	OrBump System Commissioned	6/14/06	6/14/06	1	100%	0 d
1.2.3	**Corrector System**	**1/4/05**	**4/17/09**	**0.14**	**29%**	**0 d**
1.2.3.1	**Corrector Magnets Design & Prototype**	**1/4/05**	**11/17/06**	**0.88**	**80%**	**128 d**
1.2.3.1.1	Initial Corrector Prototype Design & Fab	1/4/05	7/29/05	1	100%	0 d
1.2.3.1.2	Design Corrector Prototype	8/16/05	10/31/06	0.79	82%	26 d
1.2.3.1.3	Corrector Prototype Procurement	3/1/05	9/29/06	0.94	95%	128 d
1.2.3.1.4	Corrector Prototype Production	4/12/05	10/27/06	0.89	75%	128 d
1.2.3.1.5	Corrector Prototype Test	6/19/06	11/17/06	0.31	10%	128 d
1.2.3.1.6	Corrector Prototype Magnet Complete	11/17/06	11/17/06	0	0%	128 d
1.2.3.1.7	Corr Prototype Design Complete	10/31/06	10/31/06	0	0%	26 d
1.2.3.1.8	Long Straight BM: Prel Measurement of Long Straights	4/10/06	4/21/06	1	100%	0 d
1.2.3.1.9	Short Straight BM: Examination & Measurement of Short Straights	4/3/06	4/14/06	1	100%	0 d
1.2.3.2	**Long Straight Magnets Production**	**8/22/06**	**5/29/07**	**0**	**0%**	**11 d**
1.2.3.2.1	**Long Straight Magnets Design & Procurement**	**8/22/06**	**5/10/07**	**0**	**0%**	**11 d**
1.2.3.2.1.	Design Long Straight Production Units (24)	11/6/06	11/17/06	0	0%	128 d
1.2.3.2.1.	Procure Long Straight Components	8/22/06	5/10/07	0	0%	11 d
1.2.3.2.2	**Long Straight Magnets Fab & Test**	**1/19/07**	**5/29/07**	**0**	**0%**	**11 d**
1.2.3.2.2.	Fabricate Long Straight Production Units (24)	1/19/07	5/24/07	0	0%	11 d
1.2.3.2.2.	Test Long Straight Production Units	2/20/07	5/29/07	0	0%	11 d
1.2.3.2.3	Long Straight Integrated BPMs	8/22/06	3/15/07	0	0%	61 d
1.2.3.2.4	Long Straight Magnets Ready for Installation	5/29/07	5/29/07	0	0%	11 d



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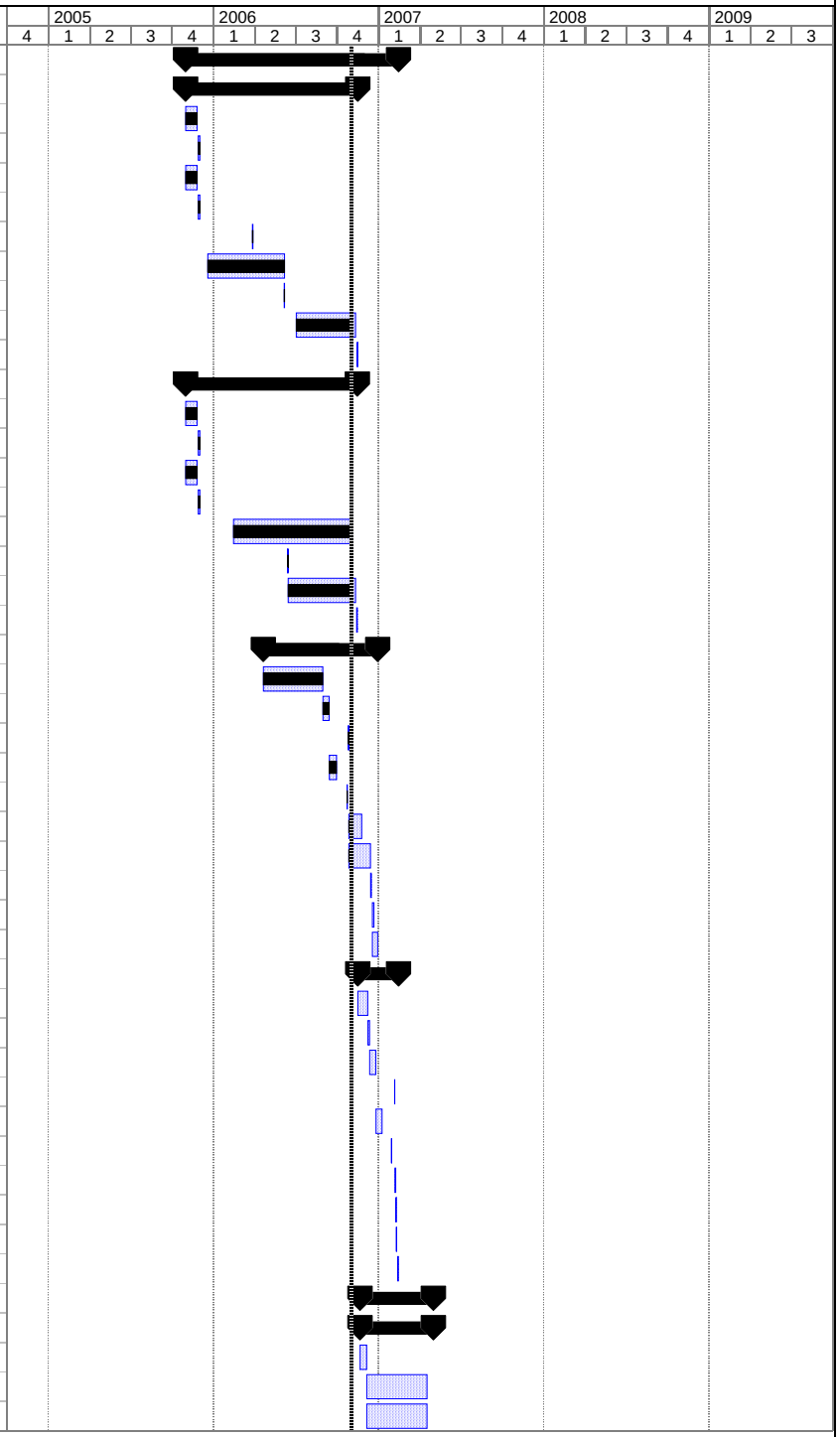
1.2.3.3	**Corrector PS Design & Prototype**	**8/1/05**	**11/14/06**	**0.8**	**84%**	**274 d**
1.2.3.3.1	**Magnet Power Supplies -- 50 Amp, PS1**	**8/1/05**	**8/16/06**	**1**	**96%**	**144 d**
1.2.3.3.1.	PS1: Specification	8/1/05	8/26/05	1	100%	0 d
1.2.3.3.1.	PS1: Identify Vendors	8/29/05	9/1/05	1	100%	0 d
1.2.3.3.1.	PS1: Vendor Specification Review	8/1/05	8/26/05	1	100%	0 d
1.2.3.3.1.	PS1: Request For Inquiry Bids	8/29/05	9/1/05	1	100%	0 d
1.2.3.3.1.	PS1: Procurement of Vendor Model	12/27/05	12/27/05	1	100%	0 d
1.2.3.3.1.	PS1: Prototype In-House PS Design	9/19/05	3/7/06	1	100%	0 d
1.2.3.3.1.	PS1: Prototype Fabrication	3/7/06	3/7/06	1	100%	0 d
1.2.3.3.1.	PS1: Prototype Testing	4/3/06	8/11/06	1	90%	9 d
1.2.3.3.1.	PS1: Approval For Production	8/15/06	8/16/06	1	0%	144 d
1.2.3.3.2	**Magnet Power Supplies -- 5 Amp, PS2**	**8/1/05**	**8/15/06**	**1**	**96%**	**294 d**
1.2.3.3.2.	PS2: Specification	8/1/05	8/26/05	1	100%	0 d
1.2.3.3.2.	PS2: Identify Vendors	8/29/05	9/1/05	1	100%	0 d
1.2.3.3.2.	PS2: Vendor Specification Review	8/1/05	8/26/05	1	100%	0 d
1.2.3.3.2.	PS2: Request For Inquiry Bids	8/29/05	9/1/05	1	100%	0 d
1.2.3.3.2.	PS2: Integration of PS into system	11/15/05	7/31/06	1	100%	0 d
1.2.3.3.2.	PS2: Prototype Fabrication	3/15/06	3/15/06	1	100%	0 d
1.2.3.3.2.	PS2: Prototype Testing	3/16/06	8/11/06	1	90%	294 d
1.2.3.3.2.	PS2: Approval For Production	8/14/06	8/15/06	1	0%	294 d
1.2.3.3.3	**Corrector Controller Design & Prototype, PCC**	**1/20/06**	**9/29/06**	**0.63**	**66%**	**306 d**
1.2.3.3.3.	CC: Specification & Design	1/20/06	5/31/06	1	100%	0 d
1.2.3.3.3.	CC: Prototype Schematic Layout	6/1/06	6/14/06	1	100%	0 d
1.2.3.3.3.	CC: Prototype Parts Procurement	7/27/06	7/27/06	1	100%	0 d
1.2.3.3.3.	CC: Prototype PCB Layout	6/15/06	6/30/06	1	100%	0 d
1.2.3.3.3.	CC: Prototype PCB Fabrication	7/24/06	7/24/06	0	100%	0 d
1.2.3.3.3.	CC: Prototype Assembly, 5 Units	7/28/06	8/25/06	0	20%	277 d
1.2.3.3.3.	CC: Prototype Testing	7/28/06	9/13/06	0	5%	277 d
1.2.3.3.3.	CC: Prototype Approval	9/14/06	9/15/06	0	0%	277 d
1.2.3.3.3.	CC: Production Schematic Revisions	9/18/06	9/21/06	0	0%	277 d
1.2.3.3.3.	CC: Teststand Assembly	9/18/06	9/29/06	0	0%	306 d
1.2.3.3.4	**Local Display Design & Prototype**	**8/17/06**	**11/14/06**	**0**	**0%**	**257 d**
1.2.3.3.4.	DD: Specification & Layout	8/17/06	9/7/06	0	0%	257 d
1.2.3.3.4.	DD: Hardware / Enclosure Design	9/8/06	9/11/06	0	0%	257 d
1.2.3.3.4.	DD: Prototype Schematic Layout	9/12/06	9/25/06	0	0%	257 d
1.2.3.3.4.	DD: Prototype Parts Procurement	11/6/06	11/6/06	0	0%	257 d
1.2.3.3.4.	DD: Prototype PCB Layout	9/26/06	10/9/06	0	0%	262 d
1.2.3.3.4.	DD: Prototype PCB Fabrication	10/30/06	10/30/06	0	0%	262 d
1.2.3.3.4.	DD: Prototype Assembly, 2 Units	11/7/06	11/8/06	0	0%	257 d
1.2.3.3.4.	DD: Prototype Testing	11/9/06	11/9/06	0	0%	257 d
1.2.3.3.4.	DD: Prototype Approval	11/10/06	11/10/06	0	0%	257 d
1.2.3.3.4.	DD: Production Schematic Revisions	11/13/06	11/14/06	0	0%	257 d
1.2.3.4	**Long Straight PS Fabrication**	**8/22/06**	**1/30/07**	**0**	**0%**	**337 d**
1.2.3.4.1	**Long Straight PS Production -- 50 Amp, PS1**	**8/22/06**	**1/30/07**	**0**	**0%**	**337 d**
1.2.3.4.1.	Long Straight PS1: Production Specification & Vendor Selection	8/22/06	9/5/06	0	0%	337 d
1.2.3.4.1.	Long Straight PS1: Production Oversight	9/6/06	1/16/07	0	0%	337 d
1.2.3.4.1.	Long Straight PS1: Prod Order Award, Fab & Delivery, 120 Units	9/6/06	1/16/07	0	0%	337 d



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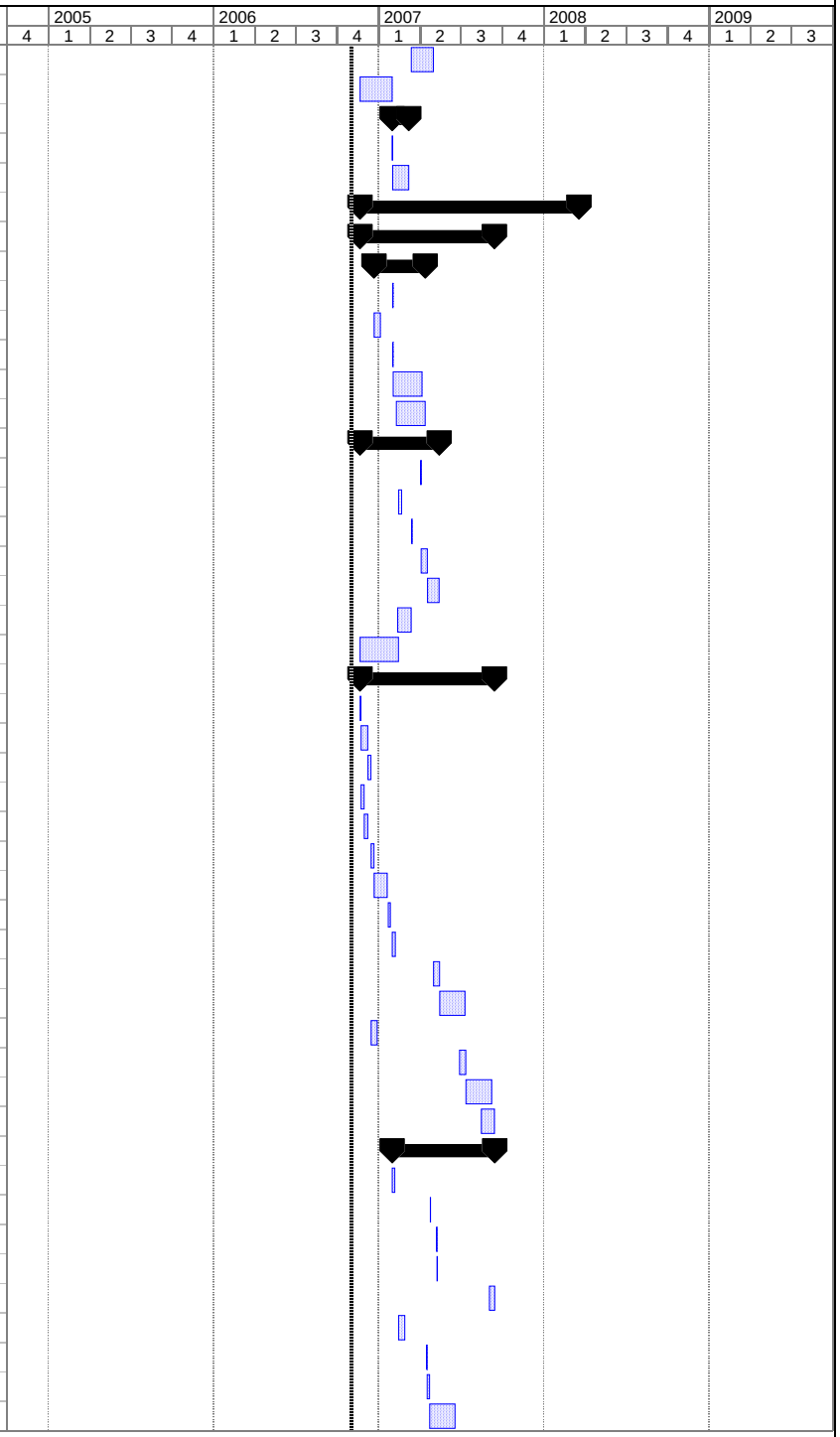
WBS	Name	St	Fin	Planned	Act %	Float
1.2.3.4.1.	Long Straight PS1: Production Order Testing	12/13/06	1/30/07	0	0%	337 d
1.2.3.4.1.	Long Straight PS1: Procure 160V Bulk Supplies & Filters, 6 Units	8/22/06	10/31/06	0	0%	432 d
1.2.3.4.2	**Long Straight PS Production -- 5 Amp, PS2**	**11/1/06**	**12/7/06**	**0**	**0%**	**370 d**
1.2.3.4.2.	Long Straight PS2: Production Order Fabrication, 24 Units	11/1/06	11/1/06	0	0%	370 d
1.2.3.4.2.	Long Straight PS2: Production Order Testing	11/2/06	12/7/06	0	0%	370 d
1.2.3.5	**Long Straight Installation**	**8/22/06**	**12/18/07**	**0**	**0%**	**9 d**
1.2.3.5.1	**Long Straight PS & Controls Rack Assembly**	**8/22/06**	**6/14/07**	**0**	**0%**	**337 d**
1.2.3.5.1.	**CAMAC Long Straight Controller, CC**	**9/22/06**	**1/12/07**	**0**	**0%**	**358 d**
1.2.3.5.1.	Long Straight CC: Production Parts Procurement, 36 Units	11/2/06	11/2/06	0	0%	358 d
1.2.3.5.1.	Long Straight CC: Production PCB Layout	9/22/06	10/5/06	0	0%	358 d
1.2.3.5.1.	Long Straight CC: Production PCB Fabrication, 36 Units	11/2/06	11/2/06	0	0%	358 d
1.2.3.5.1.	Long Straight CC: Production Assembly, 36 Units	11/3/06	1/5/07	0	0%	358 d
1.2.3.5.1.	Long Straight CC: Production Testing	11/10/06	1/12/07	0	0%	358 d
1.2.3.5.1.	**Long Straight Local Displays & Diagnostics, DD**	**8/22/06**	**2/12/07**	**0**	**0%**	**338 d**
1.2.3.5.1.	Long Straight DD: Production Parts Procurement, 36 units	1/3/07	1/3/07	0	0%	338 d
1.2.3.5.1.	Long Straight DD: Production PCB Layout	11/15/06	11/21/06	0	0%	348 d
1.2.3.5.1.	Long Straight DD: Production PCB Fabrication, 36 Units	12/14/06	12/14/06	0	0%	348 d
1.2.3.5.1.	Long Straight DD: Production Assembly, 36 Units	1/4/07	1/17/07	0	0%	338 d
1.2.3.5.1.	Long Straight DD: Production Testing	1/18/07	2/12/07	0	0%	338 d
1.2.3.5.1.	Long Straight DD: Documentation	11/13/06	12/12/06	0	0%	359 d
1.2.3.5.1.	Long Straight DD: HRM Analog Readback Electronics, 6 Units	8/22/06	11/14/06	0	0%	395 d
1.2.3.5.1.	**Long Straight Rack Installation, RI**	**8/22/06**	**6/14/07**	**0**	**0%**	**337 d**
1.2.3.5.1.	Long Straight RI: Identify New Rack Locations	8/22/06	8/23/06	0	0%	397 d
1.2.3.5.1.	Long Straight RI: Specify Rack Layout & Cooling	8/24/06	9/7/06	0	0%	397 d
1.2.3.5.1.	Long Straight RI: Create Drawings for Rack Layout	9/8/06	9/14/06	0	0%	397 d
1.2.3.5.1.	Long Straight RI: Prepare New Rack Locations	8/24/06	8/30/06	0	0%	402 d
1.2.3.5.1.	Long Straight RI: Transport Racks from Storage	8/31/06	9/7/06	0	0%	402 d
1.2.3.5.1.	Long Straight RI: Prepare Racks with Equip. Support Hardware	9/15/06	9/21/06	0	0%	397 d
1.2.3.5.1.	Long Straight RI: AC Power Installation	9/22/06	10/20/06	0	0%	397 d
1.2.3.5.1.	Long Straight RI: Install Rack Cooling	10/23/06	10/27/06	0	0%	397 d
1.2.3.5.1.	Long Straight RI: Install Bulk Power Supplies, 6 each 15kW Units	11/1/06	11/7/06	0	0%	432 d
1.2.3.5.1.	Long Straight RI: Install Power Amplifiers	1/31/07	2/13/07	0	0%	337 d
1.2.3.5.1.	Long Straight RI: Install Controls & Diagnostic Equip.	2/14/07	4/10/07	0	0%	337 d
1.2.3.5.1.	Long Straight RI: Power Amplifier Test Design & Hazard Analysis	9/15/06	9/28/06	0	0%	470 d
1.2.3.5.1.	Long Straight RI: Test Interlocks	3/30/07	4/12/07	0	0%	337 d
1.2.3.5.1.	Long Straight RI: Test Power Amplifiers w/Load	4/13/07	6/8/07	0	0%	337 d
1.2.3.5.1.	Long Straight RI: Test Controls	5/17/07	6/14/07	0	0%	337 d
1.2.3.5.2	**Long Straight Cabling, CBL**	**11/1/06**	**6/15/07**	**0**	**0%**	**91 d**
1.2.3.5.2.	Long Straight CBL: Specify Power Cables & Connectors	11/1/06	11/6/06	0	0%	91 d
1.2.3.5.2.	Long Straight CBL: Bid & Procure Power Cables	1/24/07	1/24/07	0	0%	91 d
1.2.3.5.2.	Long Straight CBL: Procure Power Cable Connectors	2/7/07	2/7/07	0	0%	91 d
1.2.3.5.2.	Long Straight CBL: Power Cable is Delivered	2/8/07	2/8/07	0	0%	91 d
1.2.3.5.2.	Long Straight CBL: Pull Power Cables from Racks to Magnets	6/4/07	6/15/07	0	0%	11 d
1.2.3.5.2.	Long Straight CBL: Specifying Control Cables & Connectors	11/15/06	11/28/06	0	0%	353 d
1.2.3.5.2.	Long Straight CBL: Procure Control Cable & Connectors	1/16/07	1/16/07	0	0%	353 d
1.2.3.5.2.	Long Straight CBL: Routing Control Cables	1/17/07	1/22/07	0	0%	353 d
1.2.3.5.2.	Long Straight CBL: Terminating Control Cables	1/23/07	3/19/07	0	0%	353 d



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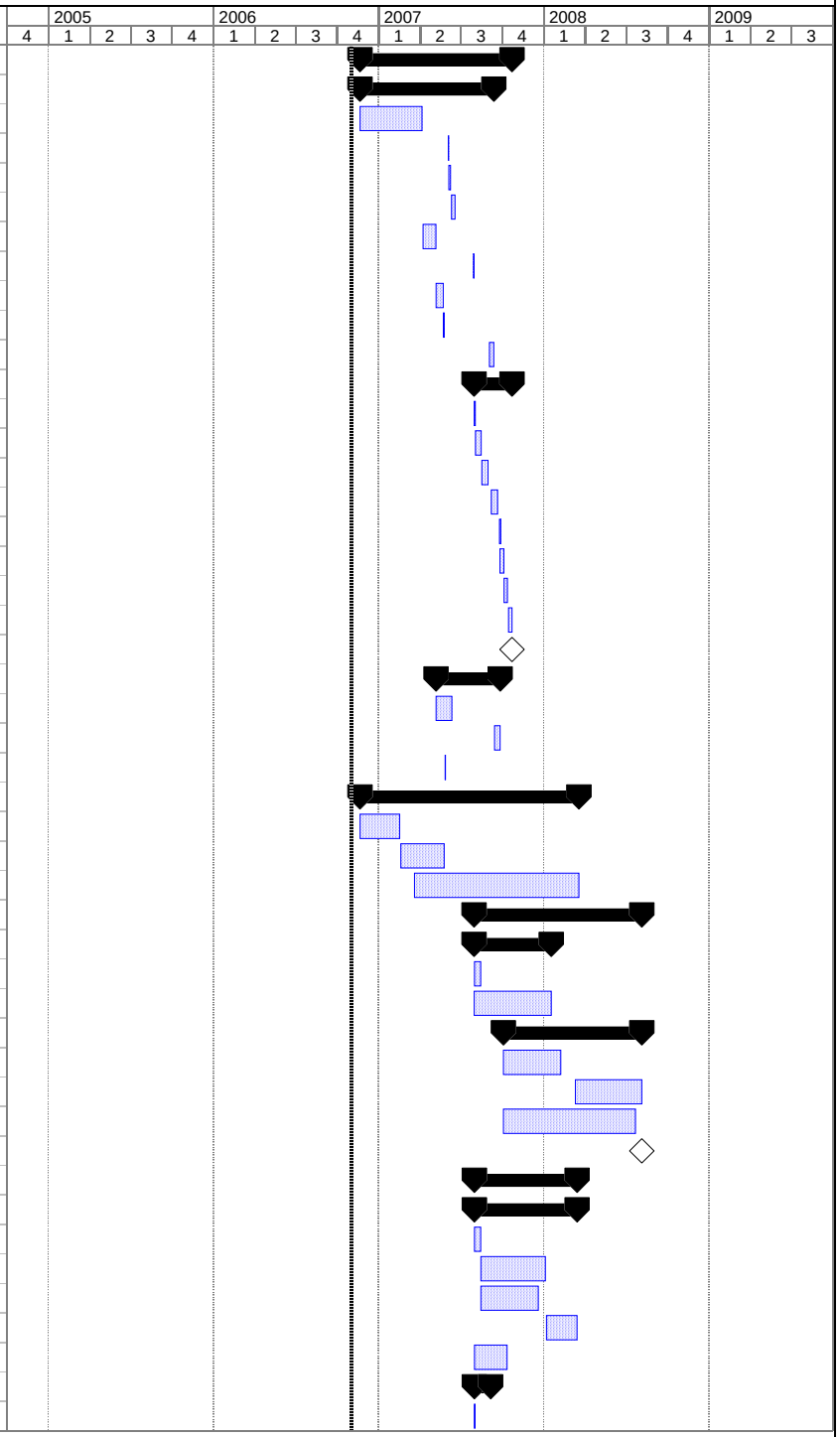
WBS	Name	St	Fin	Planned	Act %	Float
1.2.3.5.3	**Long Straight Magnet Installation**	**8/22/06**	**7/23/07**	**0**	**0%**	**9 d**
1.2.3.5.3.	**Long Straight Booster Modification (BM)**	**8/22/06**	**6/13/07**	**0**	**0%**	**9 d**
1.2.3.5.3.	Long Straight BM: Mech Design of New Straight & Supports	8/22/06	1/5/07	0	0%	9 d
1.2.3.5.3.	Long Straight BM: Procure & Machining of Initial LS Spool Piece	3/5/07	3/5/07	0	0%	92 d
1.2.3.5.3.	Long Straight BM: Assembly of Initial LS Spool Piece	3/6/07	3/9/07	0	0%	92 d
1.2.3.5.3.	Long Straight BM: LS Initial Spool Piece Examination in Booster Enclosure	3/12/07	3/19/07	0	0%	92 d
1.2.3.5.3.	Long Straight BM: Develop Drawings for Long Straight	1/8/07	2/5/07	0	0%	9 d
1.2.3.5.3.	Long Straight BM: Procure & Machining of LS Spool Piece Components	4/30/07	4/30/07	0	0%	9 d
1.2.3.5.3.	Long Straight BM: Enclosure Installation Hazard Analysis	2/6/07	2/21/07	0	0%	73 d
1.2.3.5.3.	Long Straight BM: Enclosure Work Safety Review	2/22/07	2/23/07	0	0%	73 d
1.2.3.5.3.	Long Straight BM: Removal of Long Straight Sections	6/4/07	6/13/07	0	0%	4 d
1.2.3.5.3.	**Phase 1 Long Straight Spool Piece Assy, CLS**	**5/1/07**	**7/23/07**	**0**	**0%**	**9 d**
1.2.3.5.3.	Long Straight CLS: Component Inspection & Cleaning	5/1/07	5/3/07	0	0%	9 d
1.2.3.5.3.	Long Straight CLS: Spool Piece Welding & Assy Upstairs	5/4/07	5/16/07	0	0%	9 d
1.2.3.5.3.	Long Straight CLS: Spool Piece Leak Checking	5/18/07	5/31/07	0	0%	9 d
1.2.3.5.3.	Long Straight CLS: Install Magnets, Stands & Spool Pieces in Enclosure	6/8/07	6/21/07	0	0%	4 d
1.2.3.5.3.	Long Straight CLS: Corrector Cooling Water Connection	6/26/07	6/28/07	0	0%	4 d
1.2.3.5.3.	Long Straight CLS: Spool Piece Cabling	6/27/07	7/5/07	0	0%	4 d
1.2.3.5.3.	Long Straight CLS: Spool Piece Power Testing	7/6/07	7/13/07	0	0%	4 d
1.2.3.5.3.	Long Straight CLS: Corrector & BPM Alignment	7/16/07	7/23/07	0	0%	4 d
1.2.3.5.3.	Long Straight Corrector Installation Complete	7/23/07	7/23/07	0	0%	311 d
1.2.3.5.3.	**Cooling Water Plumbing, LCW**	**2/6/07**	**6/27/07**	**0**	**0%**	**4 d**
1.2.3.5.3.	Long Straight LCW: Procurement of Materials, Phase 2	2/6/07	3/12/07	0	0%	71 d
1.2.3.5.3.	Long Straight LCW: Build Sub-Headers & Leads, Phase 2	6/15/07	6/27/07	0	0%	4 d
1.2.3.5.3.	Long Straight System Installation Review	2/26/07	2/26/07	0	0%	76 d
1.2.3.5.4	**Long Straight Applications Software Development**	**8/22/06**	**12/18/07**	**0**	**0%**	**208 d**
1.2.3.5.4.	Long Straight Appl SW Dev: Specifications	8/22/06	11/17/06	0	0%	208 d
1.2.3.5.4.	Long Straight Appl SW Dev: Crate Level DAQ Software Development	11/20/06	2/23/07	0	0%	208 d
1.2.3.5.4.	Long Straight Appl SW Dev: Application Programming	12/20/06	12/18/07	0	0%	208 d
1.2.3.6	**Short Straight Magnets Production**	**5/1/07**	**5/5/08**	**0**	**0%**	**33 d**
1.2.3.6.1	**Short Straight Magnets Design & Procurement**	**5/1/07**	**10/18/07**	**0**	**0%**	**33 d**
1.2.3.6.1.	Design Short Straight Production Units (24)	5/2/07	5/15/07	0	0%	33 d
1.2.3.6.1.	Procure Short Straight Components	5/1/07	10/18/07	0	0%	33 d
1.2.3.6.2	**Short Straight Magnets Fab & Test**	**7/5/07**	**5/5/08**	**0**	**0%**	**33 d**
1.2.3.6.2.	Fabricate Short Straight Production Units (24)	7/5/07	11/8/07	0	0%	33 d
1.2.3.6.2.	Test Short Straight Production Units	12/11/07	5/5/08	0	0%	33 d
1.2.3.6.3	Short Straight Integrated BPMs Prep Procurement	7/5/07	4/21/08	0	0%	33 d
1.2.3.6.4	Short Straight Magnets Ready for Installation	5/5/08	5/5/08	0	0%	33 d
1.2.3.7	**Short Straight PS Fabrication**	**5/2/07**	**12/14/07**	**0**	**0%**	**33 d**
1.2.3.7.1	**Short Straight PS Production -- 50 Amp, PS1**	**5/2/07**	**12/14/07**	**0**	**0%**	**33 d**
1.2.3.7.1.	Short Straight PS1: Production Specification & Vendor Selection	5/2/07	5/15/07	0	0%	33 d
1.2.3.7.1.	Short Straight PS1: Production Oversight	5/16/07	10/5/07	0	0%	33 d
1.2.3.7.1.	Short Straight PS1: Production Order Award & Fabrication, 120 Units	5/16/07	9/19/07	0	0%	83 d
1.2.3.7.1.	Short Straight PS1: Production Order Testing	10/8/07	12/14/07	0	0%	33 d
1.2.3.7.1.	Short Straight PS1: Procure 160V Bulk Supplies & Filters, 6 units	5/2/07	7/12/07	0	0%	186 d
1.2.3.7.2	**Short Straight PS Production -- 5 Amp, PS2**	**5/2/07**	**6/6/07**	**0**	**0%**	**166 d**
1.2.3.7.2.	Short Straight PS2: Production Order Fabrication, 24 Units	5/2/07	5/2/07	0	0%	166 d



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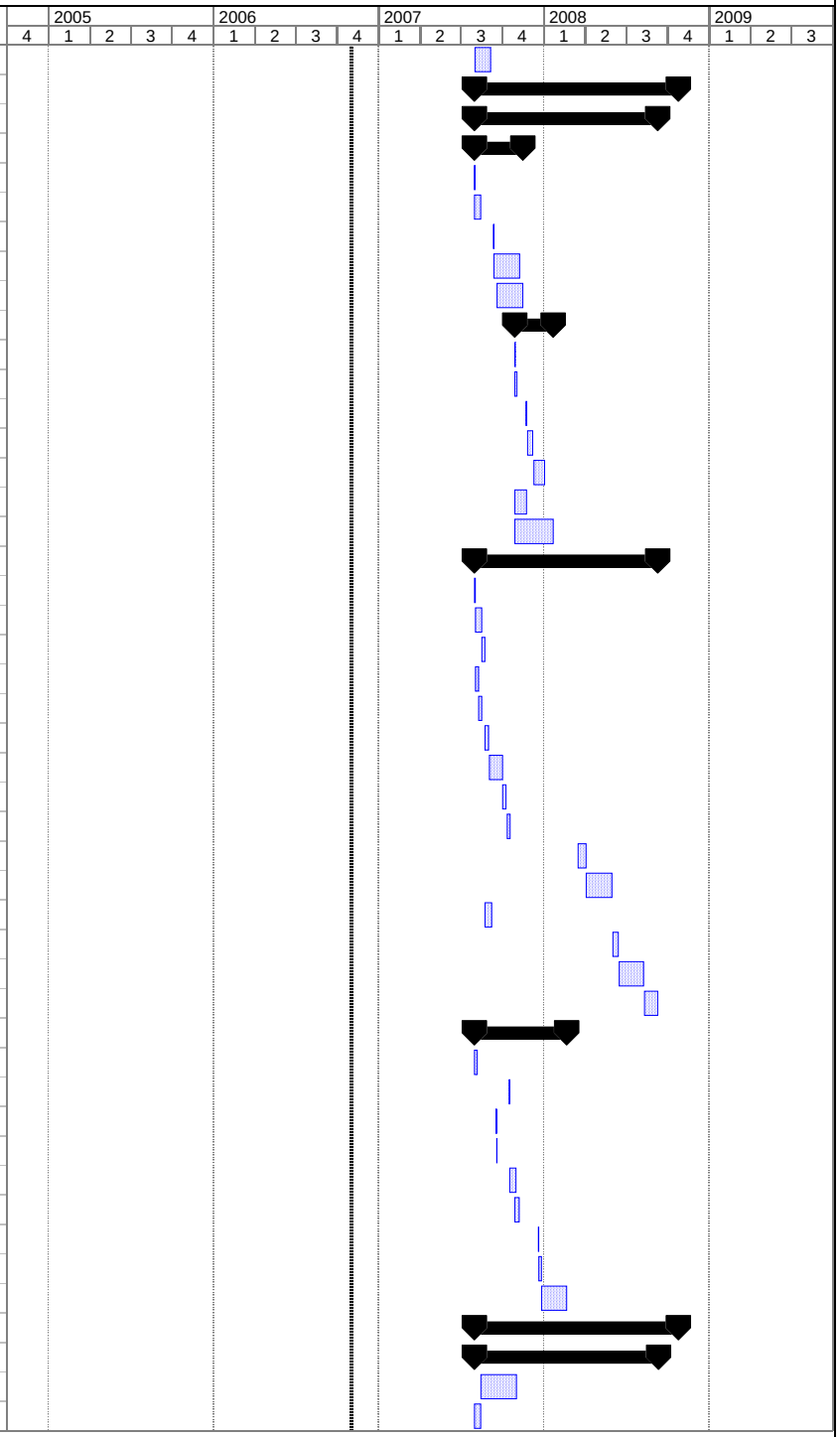
1.2.3.7.2.	Short Straight PS2: Production Order Testing	5/3/07	6/6/07	0	0%	166 d
1.2.3.8	**Short Straight Installation**	**5/2/07**	**7/25/08**	**0**	**0%**	**0 d**
1.2.3.8.1	**Short Straight PS & Controls Rack Assembly**	**5/2/07**	**6/9/08**	**0**	**0%**	**33 d**
1.2.3.8.1.	**CAMAC Short Straight Controller, CC**	**5/2/07**	**8/16/07**	**0**	**0%**	**126 d**
1.2.3.8.1.	Short Straight CC: Production Parts Procurement, 36 Units	5/2/07	5/2/07	0	0%	155 d
1.2.3.8.1.	Short Straight CC: Production PCB Layout	5/2/07	5/15/07	0	0%	126 d
1.2.3.8.1.	Short Straight CC: Production PCB Fabrication, 36 Units	6/13/07	6/13/07	0	0%	126 d
1.2.3.8.1.	Short Straight CC: Production Assembly, 36 Units	6/14/07	8/9/07	0	0%	126 d
1.2.3.8.1.	Short Straight CC: Production Testing	6/21/07	8/16/07	0	0%	126 d
1.2.3.8.1.	**Short Straight Local Displays & Diagnostics, DD**	**7/30/07**	**10/22/07**	**0**	**0%**	**80 d**
1.2.3.8.1.	Short Straight DD: Production Parts Procurement, 36 units	7/30/07	7/30/07	0	0%	112 d
1.2.3.8.1.	Short Straight DD: Production PCB Layout	7/30/07	8/3/07	0	0%	93 d
1.2.3.8.1.	Short Straight DD: Production PCB Fabrication, 36 Units	8/24/07	8/24/07	0	0%	93 d
1.2.3.8.1.	Short Straight DD: Production Assembly, 36 Units	8/27/07	9/7/07	0	0%	93 d
1.2.3.8.1.	Short Straight DD: Production Testing	9/10/07	10/3/07	0	0%	93 d
1.2.3.8.1.	Short Straight DD: Documentation	7/30/07	8/24/07	0	0%	230 d
1.2.3.8.1.	Short Straight DD: HRM Analog Readback Electronics, 6 Units	7/30/07	10/22/07	0	0%	80 d
1.2.3.8.1.	**Short Straight Rack Installation, RI**	**5/2/07**	**6/9/08**	**0**	**0%**	**33 d**
1.2.3.8.1.	Short Straight RI: Identify New Rack Locations	5/2/07	5/3/07	0	0%	143 d
1.2.3.8.1.	Short Straight RI: Specify Rack Layout & Cooling	5/4/07	5/17/07	0	0%	143 d
1.2.3.8.1.	Short Straight RI: Create Drawings for Rack Layout	5/18/07	5/24/07	0	0%	143 d
1.2.3.8.1.	Short Straight RI: Prepare New Rack Locations	5/4/07	5/10/07	0	0%	148 d
1.2.3.8.1.	Short Straight RI: Transport Racks from Storage	5/11/07	5/17/07	0	0%	148 d
1.2.3.8.1.	Short Straight RI: Prepare Racks with Equip. Support Hardware	5/25/07	6/1/07	0	0%	143 d
1.2.3.8.1.	Short Straight RI: AC Power Installation	6/4/07	7/2/07	0	0%	143 d
1.2.3.8.1.	Short Straight RI: Install Rack Cooling	7/3/07	7/10/07	0	0%	143 d
1.2.3.8.1.	Short Straight RI: Install Bulk Power Supplies, 6 each 15kW Units	7/13/07	7/19/07	0	0%	186 d
1.2.3.8.1.	Short Straight RI: Install Power Amplifiers	12/17/07	1/3/08	0	0%	33 d
1.2.3.8.1.	Short Straight RI: Install Controls & Diagnostic Equip.	1/4/08	2/29/08	0	0%	33 d
1.2.3.8.1.	Short Straight RI: Power Amplifier Test Design & Hazard Analysis	5/25/07	6/8/07	0	0%	224 d
1.2.3.8.1.	Short Straight RI: Test Interlocks	3/3/08	3/14/08	0	0%	33 d
1.2.3.8.1.	Short Straight RI: Test Power Amplifiers w/Load	3/17/08	5/9/08	0	0%	33 d
1.2.3.8.1.	Short Straight RI: Test Controls	5/12/08	6/9/08	0	0%	33 d
1.2.3.8.2	**Short Straight Cabling, CBL**	**5/2/07**	**11/21/07**	**0**	**0%**	**150 d**
1.2.3.8.2.	Short Straight CBL: Specify Power Cables & Connectors	5/2/07	5/7/07	0	0%	229 d
1.2.3.8.2.	Short Straight CBL: Bid & Procure Power Cables	7/18/07	7/18/07	0	0%	229 d
1.2.3.8.2.	Short Straight CBL: Procure Power Cable Connectors	6/19/07	6/19/07	0	0%	248 d
1.2.3.8.2.	Short Straight CBL: Power Cable is Delivered	6/20/07	6/20/07	0	0%	248 d
1.2.3.8.2.	Short Straight CBL: Pull Power Cables from Racks to Magnets	7/19/07	8/1/07	0	0%	229 d
1.2.3.8.2.	Short Straight CBL: Specifying Control Cables & Connectors	7/30/07	8/8/07	0	0%	98 d
1.2.3.8.2.	Short Straight CBL: Procure Control Cable & Connectors	9/20/07	9/20/07	0	0%	98 d
1.2.3.8.2.	Short Straight CBL: Routing Control Cables	9/21/07	9/26/07	0	0%	98 d
1.2.3.8.2.	Short Straight CBL: Terminating Control Cables	9/27/07	11/21/07	0	0%	98 d
1.2.3.8.3	**Short Straightector Magnet Installation**	**5/2/07**	**7/25/08**	**0**	**0%**	**0 d**
1.2.3.8.3.	**Short Straight Booster Modification, BM**	**5/2/07**	**6/11/08**	**0**	**0%**	**2 d**
1.2.3.8.3.	Short Straight BM: Design of New Short Straight Support	5/16/07	8/2/07	0	0%	93 d
1.2.3.8.3.	Short Straight BM: Design of New SS Spool Piece	5/2/07	5/15/07	0	0%	93 d



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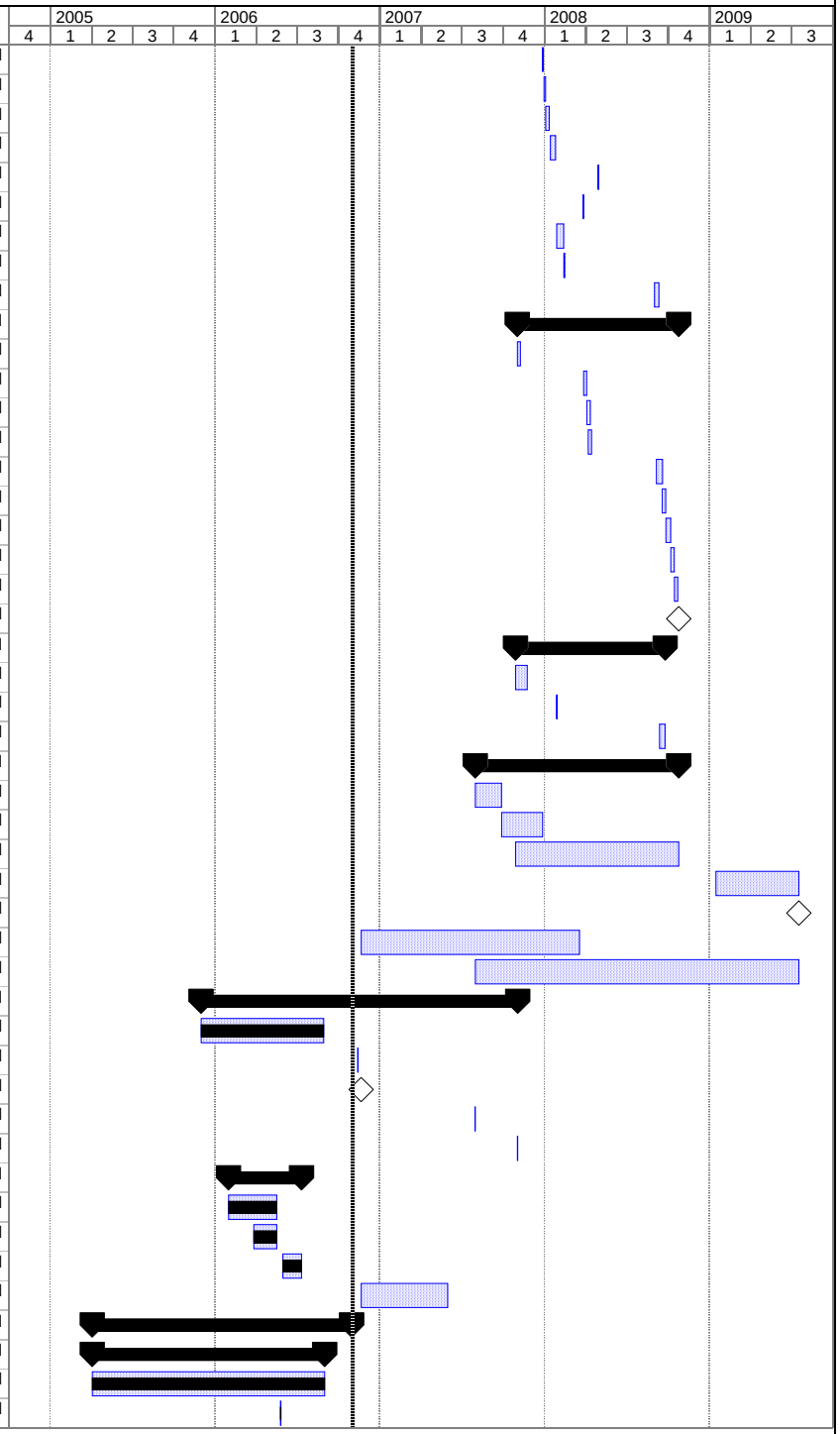
WBS	Name	St	Fin	Planned	Act %	Float
1.2.3.8.3.	Short Straight BM: Procure & Machining of Initial SS Spool Piece	9/28/07	9/28/07	0	0%	93 d
1.2.3.8.3.	Short Straight BM: Assembly of Initial SS Spool Piece	10/1/07	10/4/07	0	0%	93 d
1.2.3.8.3.	Short Straight BM: SS Initial Spool Piece Examination in Booster Enclosure	10/5/07	10/12/07	0	0%	93 d
1.2.3.8.3.	Short Straight BM: Develop Drawings for Short Straight	10/15/07	10/26/07	0	0%	93 d
1.2.3.8.3.	Short Straight BM: Procure & Machining of SS Support	1/29/08	1/29/08	0	0%	93 d
1.2.3.8.3.	Short Straight BM: Procure & Machining of SS Spool Piece Components	12/27/07	12/27/07	0	0%	103 d
1.2.3.8.3.	Short Straight BM: Enclosure Installation Hazard Analysis	10/29/07	11/13/07	0	0%	135 d
1.2.3.8.3.	Short Straight BM: Enclosure Work Safety Review	11/14/07	11/15/07	0	0%	135 d
1.2.3.8.3.	Short Straight BM: Removal of Short Straight Sections	6/2/08	6/11/08	0	0%	2 d
1.2.3.8.3.	**Phase 2 Short Straight Spool Piece Assy, CSS**	**8/3/07**	**7/25/08**	**0**	**0%**	**0 d**
1.2.3.8.3.	Short Straight CSS: Assembly & Installation Planning & Hazard Analysis	8/3/07	8/9/07	0	0%	204 d
1.2.3.8.3.	Short Straight CSS: Component Inspection & Cleaning	12/28/07	1/3/08	0	0%	103 d
1.2.3.8.3.	Short Straight CSS: Spool Piece Welding & Assy Upstairs	1/4/08	1/11/08	0	0%	104 d
1.2.3.8.3.	Short Straight CSS: Spool Piece Leak Checking	1/7/08	1/14/08	0	0%	103 d
1.2.3.8.3.	Short Straight CSS: Install Magnets, Stands & Spool Pieces in Enclosure	6/6/08	6/19/08	0	0%	2 d
1.2.3.8.3.	Short Straight CSS: Corrector Cooling Water Connection	6/19/08	6/26/08	0	0%	2 d
1.2.3.8.3.	Short Straight CSS: Spool Piece Cabling	6/27/08	7/7/08	0	0%	2 d
1.2.3.8.3.	Short Straight CSS: Spool Piece Power Testing	7/8/08	7/15/08	0	0%	2 d
1.2.3.8.3.	Short Straight CSS: Corrector & BPM Alignment	7/16/08	7/23/08	0	0%	2 d
1.2.3.8.3.	Short Straight Corrector Installation Complete	7/25/08	7/25/08	0	0%	0 d
1.2.3.8.3.	**Short Straight Cooling Water Plumbing, LCW**	**7/30/07**	**6/25/08**	**0**	**0%**	**2 d**
1.2.3.8.3.	Short Straight LCW: Water Circuit Design	7/30/07	8/24/07	0	0%	172 d
1.2.3.8.3.	Short Straight LCW: Procurement of Materials, Phase 2 Split betw Long & Short	10/29/07	10/29/07	0	0%	157 d
1.2.3.8.3.	Short Straight LCW: Build Sub-Headers & Leads (Phase 2) Split betw Long & Short	6/13/08	6/25/08	0	0%	2 d
1.2.3.8.4	**Short Straight Applications Software Development**	**5/2/07**	**7/25/08**	**0**	**0%**	**0 d**
1.2.3.8.4.	Short Straight Appl SW Dev: Specifications	5/2/07	6/28/07	0	0%	0 d
1.2.3.8.4.	Short Straight Appl SW Dev: Crate Level DAQ Software Development	6/29/07	9/27/07	0	0%	0 d
1.2.3.8.4.	Short Straight Appl SW Dev: Application Programming	7/30/07	7/25/08	0	0%	0 d
1.2.3.9	Commission Corrector System	10/16/08	4/17/09	0	0%	0 d
1.2.3.10	Corrector System Complete	4/17/09	4/17/09	0	0%	0 d
1.2.3.11	Long Straight AIP Project Management	8/22/06	12/18/07	0	0%	333 d
1.2.3.12	Short Straight AIP Project Management	5/2/07	4/17/09	0	0%	0 d
1.2.3.13	**Prepare AIP Documentation**	**9/1/05**	**8/3/07**	**0.98**	**98%**	**211 d**
1.2.3.13.1	Develop AIP Packages	9/1/05	5/30/06	1	100%	0 d
1.2.3.13.2	Corrector System Technical Review	8/14/06	8/14/06	1	0%	9 d
1.2.3.13.3	Long Straight Corrector AIPs Approved	8/21/06	8/21/06	0	0%	9 d
1.2.3.13.4	Short Straight Corrector AIPs Approved	5/1/07	5/1/07	0	0%	0 d
1.2.3.13.4	Review Booster Modifications Design	8/3/07	8/3/07	0	0%	211 d
1.2.3.14	**Booster LCW Modifications**	**11/1/05**	**4/11/06**	**1**	**100%**	**0 d**
1.2.3.14.1	Long Straight LCW: Water Circuit Design	11/1/05	2/15/06	1	100%	0 d
1.2.3.14.2	Long Straight LCW: Procurement of Materials, Phase 1 All w/Long	12/27/05	2/15/06	1	100%	0 d
1.2.3.14.3	Long Straight LCW: Tee in to Existing Header (Phase 1) All w/Long	3/1/06	4/11/06	1	100%	0 d
1.2.3.18	Corrector Magnets Spares (12)	8/22/06	3/1/07	0	0%	536 d
1.2.4	**30 Hz Harmonic**	**1/3/05**	**7/31/06**	**1**	**100%**	**0 d**
1.2.4.1	**30 Hz Harmonic Prototype**	**1/3/05**	**6/1/06**	**1**	**100%**	**0 d**
1.2.4.1.1	30 Hz Harmonic Prototype	1/3/05	6/1/06	1	100%	0 d
1.2.4.1.2	Review 30 Hz Harmonic Concept	2/24/06	2/24/06	1	100%	0 d



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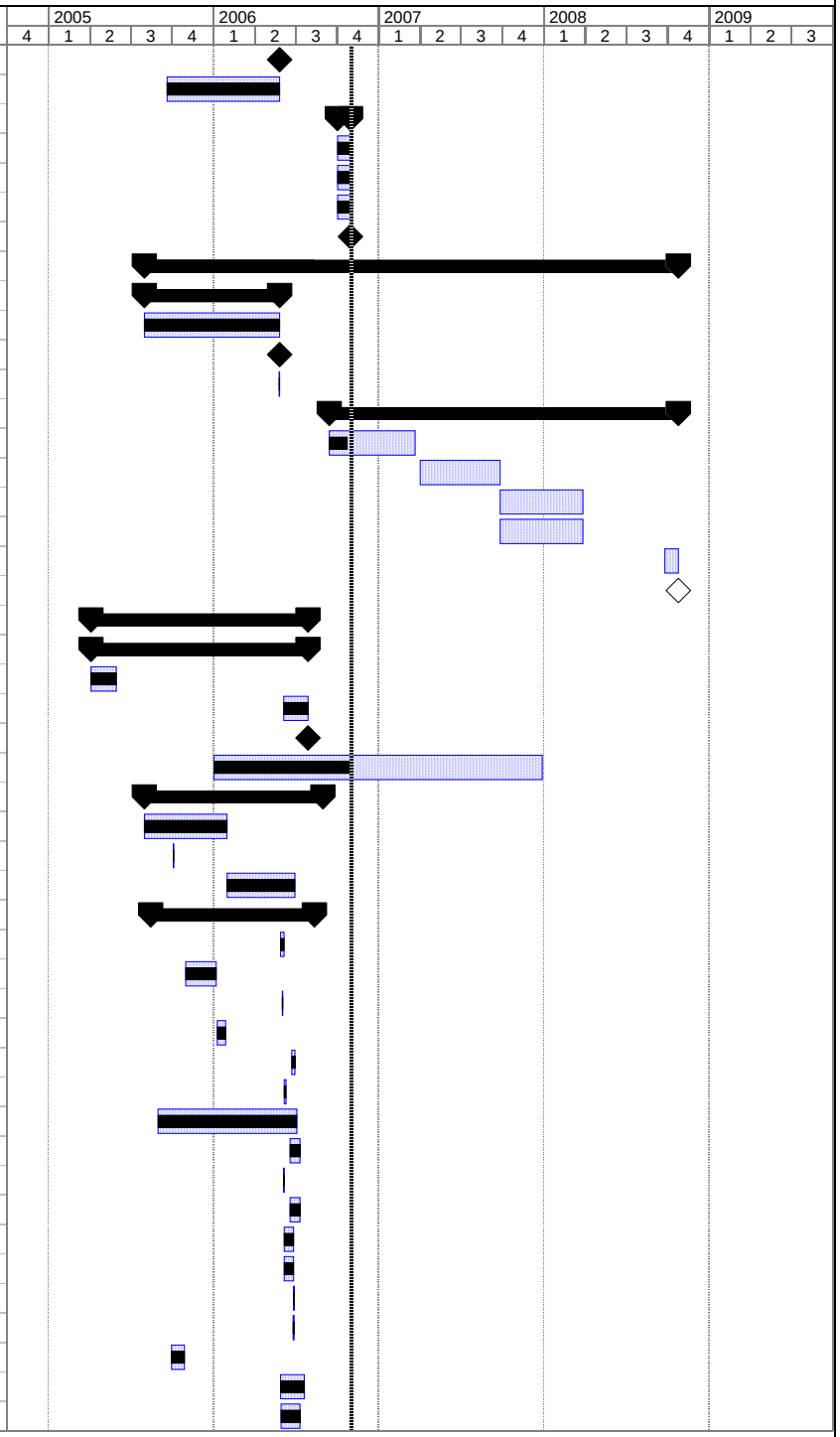
WBS	Name	St	Fin	Planned	Act %	Float
1.2.4.1.3	30 Hz Harmonic Project Decision	2/24/06	2/24/06	1	100%	0 d
1.2.4.1.4	30Hz Girder Design	6/21/05	2/24/06	1	100%	0 d
1.2.4.2	**30 Hz Harmonic Production**	**7/3/06**	**7/31/06**	**1**	**100%**	**0 d**
1.2.4.2.1	30Hz Procurement Preparation (Deleted in CR#14)	7/3/06	7/31/06	1	100%	0 d
1.2.4.2.2	GMPS Modification (Deleted in CR#14)	7/3/06	7/31/06	1	100%	0 d
1.2.4.2.3	30Hz Installation (Deleted in CR#14)	7/3/06	7/31/06	1	100%	0 d
1.2.4.2.4	30Hz Installation Complete (Deleted in CR#14)	7/31/06	7/31/06	1	100%	0 d
1.2.5	**Gamma-t System**	**5/2/05**	**7/25/08**	**0.11**	**32%**	**0 d**
1.2.5.1	**Gamma-t System Studies**	**5/2/05**	**2/24/06**	**1**	**100%**	**0 d**
1.2.5.1.1	Gamma-t Studies	5/2/05	2/24/06	1	100%	0 d
1.2.5.1.2	Gamma-t Studies Complete	2/24/06	2/24/06	1	100%	0 d
1.2.5.1.3	Gamma-t Review/Project Decision	2/24/06	2/24/06	1	100%	0 d
1.2.5.2	**New Gamma-t System**	**6/15/06**	**7/25/08**	**0.01**	**5%**	**0 d**
1.2.5.2.1	New Gamma-t System Design	6/15/06	12/21/06	0.25	20%	125 d
1.2.5.2.2	New Gamma-t System Mechanical Design	1/2/07	6/27/07	0	0%	125 d
1.2.5.2.3	New Gamma-t System Procure/Fab	6/28/07	12/27/07	0	0%	125 d
1.2.5.2.4	New Gamma-t System Procure/Fab - AD Support	6/28/07	12/27/07	0	0%	125 d
1.2.5.2.5	New Gamma-t System Install	6/26/08	7/25/08	0	0%	0 d
1.2.5.2.6	New Gamma-t Installation Complete	7/25/08	7/25/08	0	0%	0 d
1.2.7	**Booster RF Cavity Cooling**	**1/4/05**	**4/28/06**	**1**	**100%**	**0 d**
1.2.7.1	**Stainless Steel Flex Tubes**	**1/4/05**	**4/28/06**	**1**	**100%**	**0 d**
1.2.7.1.1	Flex Tube Fab	1/4/05	2/28/05	1	100%	0 d
1.2.7.1.2	Re-Install Flex Tubes	3/6/06	4/28/06	1	100%	0 d
1.2.7.1.3	Flex Tube Installation Complete	4/28/06	4/28/06	1	100%	0 d
1.2.9	Booster Solid State RF Upgrade	10/3/05	9/28/07	0.42	42%	388 d
1.2.11	**Booster Dump Relocation**	**5/2/05**	**5/31/06**	**1**	**100%**	**0 d**
1.2.11.1	Booster Dump Relocation Design	5/2/05	10/31/05	1	100%	0 d
1.2.11.2	Review Booster Dump Relocation Design	7/5/05	7/5/05	1	100%	0 d
1.2.11.3	Booster Dump Relocation Misc Fabrication	11/1/05	3/30/06	1	100%	0 d
1.2.11.4	**Booster Dump Relocation Install**	**5/16/05**	**5/12/06**	**1**	**100%**	**0 d**
1.2.11.4.1	Booster Dump Relocation Remove Shielding Wall	2/27/06	3/6/06	1	100%	0 d
1.2.11.4.2	Booster Dump Relocation Design Monorail	8/1/05	10/7/05	1	100%	0 d
1.2.11.4.3	Booster Dump Relocation Remove Existing MP01 Septum	3/3/06	3/3/06	1	100%	0 d
1.2.11.4.4	Booster Dump Relocation Review Monorail Design	10/10/05	10/28/05	1	100%	0 d
1.2.11.4.5	Booster Dump Relocation Install Replacement MP01 (Old MI-8) Septum	3/24/06	3/30/06	1	100%	0 d
1.2.11.4.6	Booster Dump Relocation Install Monorail	3/7/06	3/10/06	1	100%	0 d
1.2.11.4.7	Booster Dump Relocation Run Power to MP01 Septum incl Cables & Cable Trays	6/1/05	4/3/06	1	100%	0 d
1.2.11.4.8	Booster Dump Relocation Run Cooling Water to MP01	3/20/06	4/10/06	1	100%	0 d
1.2.11.4.9	Booster Dump Relocation Remove Booster Kickers	3/6/06	3/6/06	1	100%	0 d
1.2.11.4.1	Booster Dump Relocation Install Booster Kickers	3/20/06	4/10/06	1	100%	0 d
1.2.11.4.1	Booster Dump Relocation SQF Quad Removal	3/7/06	3/27/06	1	100%	0 d
1.2.11.4.1	Booster Dump Relocation SQF Quad Stand Installation	3/7/06	3/27/06	1	100%	0 d
1.2.11.4.1	Booster Dump SQF Quad Installation	3/28/06	3/28/06	1	100%	0 d
1.2.11.4.1	Booster Dump Vacuum Spool Installation	3/27/06	3/28/06	1	100%	0 d
1.2.11.4.1	Booster Dump Relocation Issue Request for Proposals on Conduit Construction	7/1/05	7/29/05	1	100%	0 d
1.2.11.4.1	Booster Dump Relocation Relocate Power Supplies	2/27/06	4/20/06	1	100%	0 d
1.2.11.4.1	Booster Dump Relocation Install Conduit	2/28/06	4/10/06	1	100%	0 d



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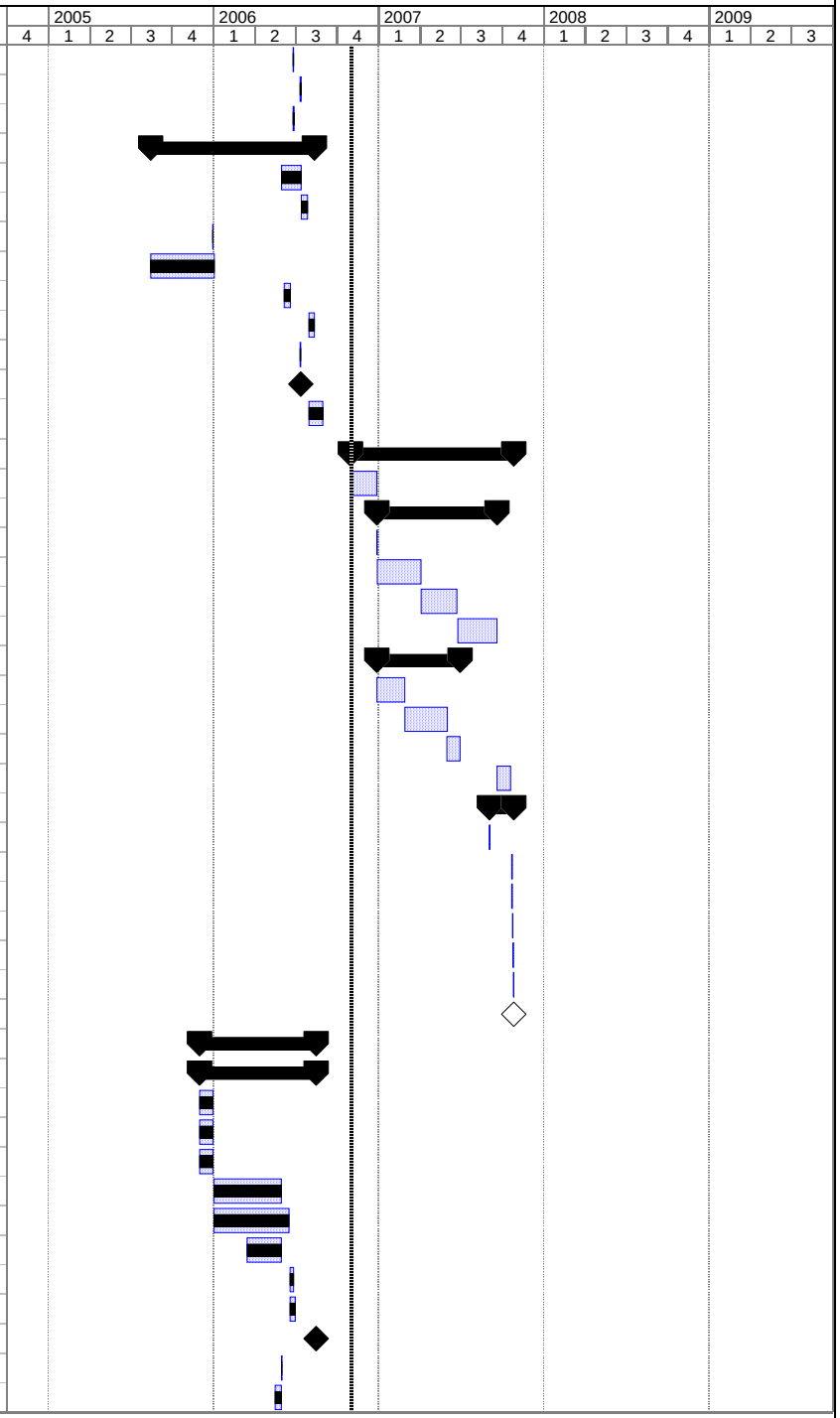
1.2.11.4.1	Booster Dump Relocation Remove Beam Pipe @Conduit Core Location	3/27/06	3/27/06	1	100%	0 d
1.2.11.4.2	Booster Dump Relocation Terminate/Splice Cables/Controls	4/11/06	4/13/06	1	100%	0 d
1.2.11.4.3	Booster Dump Relocation Install Dump	3/27/06	3/28/06	1	100%	0 d
1.2.11.4.4	**Booster Dump Relocation Radiation Safety Modifications**	**5/16/05**	**5/12/06**	**1**	**100%**	**0 d**
1.2.11.4.5	Booster Dump Relocation Install Dump Switch for V803	3/1/06	4/13/06	1	100%	0 d
1.2.11.4.6	Booster Dump Relocation Pull Cables for V803	4/14/06	4/27/06	1	100%	0 d
1.2.11.4.7	Booster Dump Relocation Deleted Activity UID 788	9/30/05	9/30/05	1	100%	0 d
1.2.11.4.8	Booster Dump Relocation Beam Stop Design/Fabrication	5/16/05	10/3/05	1	100%	0 d
1.2.11.4.9	Booster Dump Relocation Install Beam Stop	3/7/06	3/20/06	1	100%	0 d
1.2.11.4.10	Booster Dump Relocation Recable Interlock Chassis & Test	5/1/06	5/12/06	1	100%	0 d
1.2.11.4.11	Booster Dump Relocation Alignment	4/11/06	4/12/06	1	100%	0 d
1.2.11.4.12	Booster Dump Relocation Installation Complete	4/12/06	4/12/06	1	100%	0 d
1.2.11.5	Budget Adjustment for Booster Dump Relocation Activities Already Closed	5/1/06	5/31/06	1	100%	0 d
1.2.12	**Booster Chopper**	**8/1/06**	**7/27/07**	**0.07**	**0%**	**0 d**
1.2.12.1	Specify Booster Chopper	8/1/06	9/27/06	1	0%	0 d
1.2.12.2	**Booster Chopper Device**	**9/28/06**	**6/20/07**	**0.07**	**0%**	**0 d**
1.2.12.2.1	Review Booster Chopper	9/28/06	9/28/06	1	0%	0 d
1.2.12.2.2	Design Booster Chopper Magnet	9/29/06	1/3/07	0.17	0%	0 d
1.2.12.2.3	Booster Chopper Material Procurement & Delivery	1/4/07	3/23/07	0	0%	0 d
1.2.12.2.4	Fab Booster Chopper	3/26/07	6/20/07	0	0%	0 d
1.2.12.3	**Booster Chopper PS**	**9/28/06**	**3/30/07**	**0.03**	**0%**	**57 d**
1.2.12.3.1	Booster Chopper PS Design	9/28/06	11/28/06	0.3	0%	57 d
1.2.12.3.2	Booster Chopper PS Procure	11/29/06	3/2/07	0	0%	57 d
1.2.12.3.3	Booster Chopper PS Assemble	3/2/07	3/30/07	0	0%	57 d
1.2.12.4	Test Booster Chopper w/Power Supply	6/21/07	7/20/07	0	0%	0 d
1.2.12.5	**Booster Chopper Installation**	**6/4/07**	**7/27/07**	**0**	**0%**	**0 d**
1.2.12.5.1	Remove Pinger Kickers (2) at Long 5	6/4/07	6/4/07	0	0%	33 d
1.2.12.5.2	Install Booster Chopper	7/23/07	7/24/07	0	0%	0 d
1.2.12.5.3	Install Power Supply	7/23/07	7/24/07	0	0%	3 d
1.2.12.5.4	Booster Chopper Electrical Hook-up	7/25/07	7/25/07	0	0%	0 d
1.2.12.5.5	Booster Chopper Alignment	7/26/07	7/26/07	0	0%	0 d
1.2.12.5.6	Booster Chopper Vacuum Pump Down	7/27/07	7/27/07	0	0%	0 d
1.2.12.5.7	Booster Chopper Installed	7/27/07	7/27/07	0	0%	0 d
1.2.13	**Booster RF Reliability Improvements**	**9/1/05**	**5/17/06**	**1**	**100%**	**0 d**
1.2.13.1	**Booster RF AC Pulsed Power Improvements**	**9/1/05**	**5/17/06**	**1**	**100%**	**0 d**
1.2.13.1.1	Determine New Transformer & Switchboard Requirements	9/1/05	9/30/05	1	100%	0 d
1.2.13.1.2	Develop & Write Specification for New Transformers	9/1/05	9/30/05	1	100%	0 d
1.2.13.1.3	Develop & Write Specification for New Switchboards	9/1/05	9/30/05	1	100%	0 d
1.2.13.1.4	Booster AC Pulsed Power Transformer Procurement Preparation & Del (2)	10/3/05	2/28/06	1	100%	0 d
1.2.13.1.6	Booster AC Pulsed Power Switchboard Purchase & Delivery (2)	10/3/05	3/17/06	1	100%	0 d
1.2.13.1.7	Booster Air Switch Procurement	12/15/05	2/28/06	1	100%	0 d
1.2.13.1.8	Remove Old Booster RF Transformers & Switchboards	3/20/06	3/27/06	1	100%	0 d
1.2.13.1.9	Install New Booster RF Transformers & Switchboards	3/20/06	3/31/06	1	100%	0 d
1.2.13.1.10	Booster RF AC Pulsed Power Improvements Installation Complete	5/17/06	5/17/06	1	100%	0 d
1.2.13.2	Booster RF Equip Upgrades to Improve Reliability	3/1/06	3/1/06	0	100%	0 d
1.2.13.3	Booster AC Pulsed Power Transformer Spare (1)	2/15/06	2/28/06	1	100%	0 d



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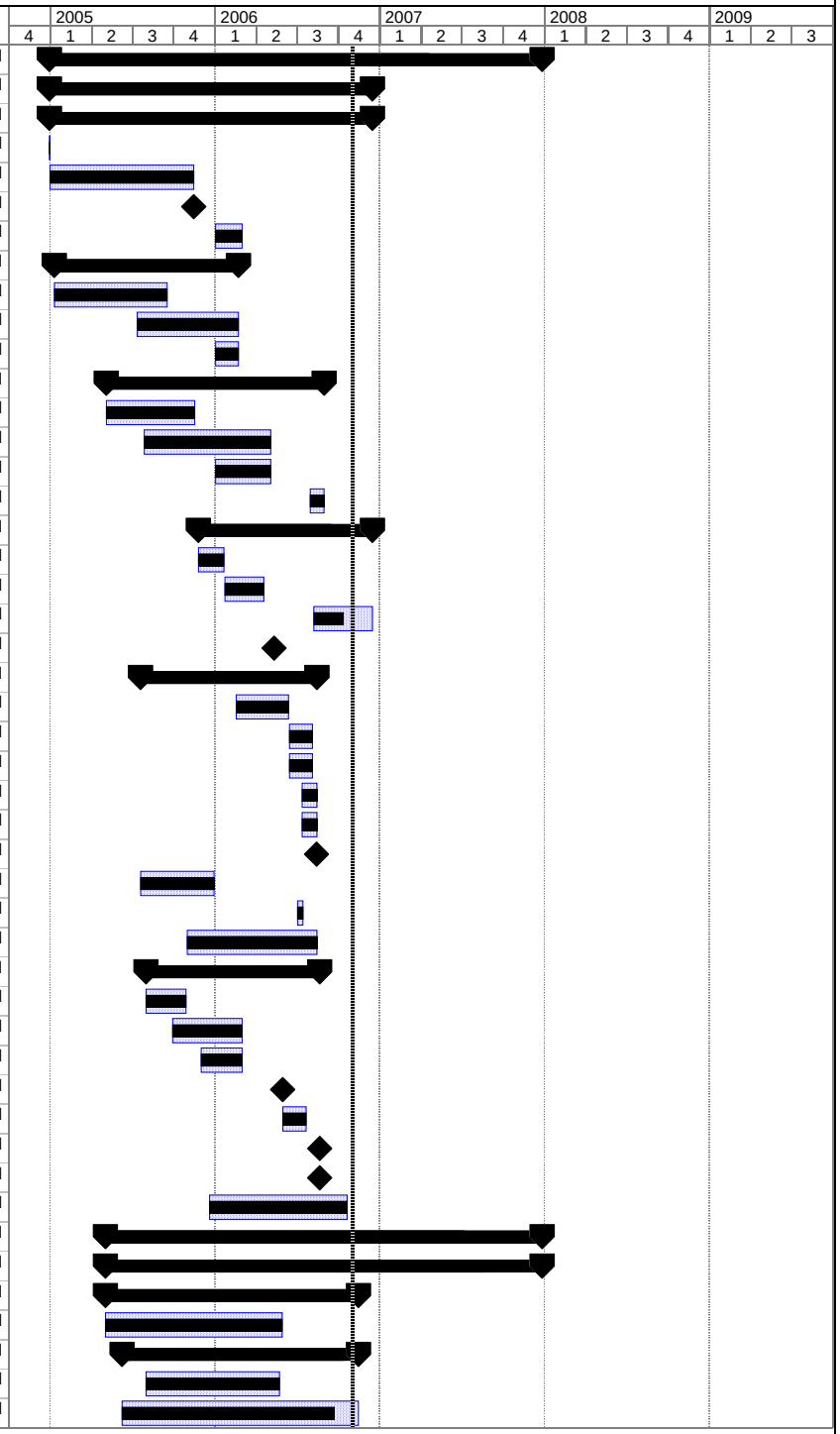
1.3	**Main Injector Upgrades**	**9/30/04**	**9/26/07**	**0.72**	**77%**	**390 d**
1.3.1	**Large Aperture Quads - WQB**	**9/30/04**	**9/15/06**	**1**	**98%**	**648 d**
1.3.1.1	**WQB Fabrication**	**9/30/04**	**9/15/06**	**1**	**96%**	**648 d**
1.3.1.1.1	WQB TD Division FY04 Costs	9/30/04	9/30/04	1	100%	0 d
1.3.1.1.2	WQB Design	10/1/04	8/15/05	1	100%	0 d
1.3.1.1.3	WQB Design Complete	8/15/05	8/15/05	1	100%	0 d
1.3.1.1.4	WQB Des Related to Crossover Buss Reconfiguration	10/3/05	11/30/05	1	100%	0 d
1.3.1.1.5	**WQB Procurement**	**10/11/04**	**11/22/05**	**1**	**100%**	**0 d**
1.3.1.1.5.	Procure WQB Tools	10/11/04	6/17/05	1	100%	0 d
1.3.1.1.5.	WQB Components Procurement & Delivery	4/12/05	11/22/05	1	100%	0 d
1.3.1.1.5.	WQB Components Procurement & Delivery - Contract Technicians	10/3/05	11/22/05	1	100%	0 d
1.3.1.1.6	**WQB Production**	**2/3/05**	**5/31/06**	**1**	**100%**	**0 d**
1.3.1.1.6.	WQB Produce Unit 1	2/3/05	8/17/05	1	100%	0 d
1.3.1.1.6.	WQB Produce Units 2 - 7	4/28/05	2/2/06	1	100%	0 d
1.3.1.1.6.	WQB Produce Units 2 - 7 - Contract Technicians	10/3/05	2/2/06	1	100%	0 d
1.3.1.1.6.	Budget Adjustment for UID 96 (WQB Produce Units 2 - 7) Already Complete	5/1/06	5/31/06	1	100%	0 d
1.3.1.1.7	**WQB Test**	**8/26/05**	**9/15/06**	**1**	**76%**	**648 d**
1.3.1.1.7.	WQB Test Unit 1	8/26/05	10/21/05	1	100%	0 d
1.3.1.1.7.	WQB Test Units 2 - 7	10/24/05	1/17/06	1	100%	0 d
1.3.1.1.7.	WQB Test Units 8-9 (Spares)	5/9/06	9/15/06	1	50%	648 d
1.3.1.1.7.	WQB Ready for Installation	2/10/06	2/10/06	1	100%	0 d
1.3.1.2	**WQB Install (AD)**	**4/20/05**	**5/15/06**	**1**	**100%**	**0 d**
1.3.1.2.1	WQB Misc Fabrication	11/18/05	3/13/06	1	100%	0 d
1.3.1.2.2	WQB Align/Install (5 units) - AD	3/16/06	5/5/06	1	100%	0 d
1.3.1.2.3	WQB Align/Install (5 units) - PPD	3/16/06	5/5/06	1	100%	0 d
1.3.1.2.4	WQB Align/Install (Remaining 2 units) - AD	4/13/06	5/15/06	1	100%	0 d
1.3.1.2.5	WQB Align/Install (Remaining 2 units) - PPD	4/13/06	5/15/06	1	100%	0 d
1.3.1.2.6	WQB Align/Install Complete	5/15/06	5/15/06	1	100%	0 d
1.3.1.2.7	Procure WQB BPM's Incl Cables	4/20/05	9/29/05	1	100%	0 d
1.3.1.2.8	Procure WQB Cable Pulls	4/3/06	4/14/06	1	100%	0 d
1.3.1.2.9	Shutdown Preparation	8/1/05	5/15/06	1	100%	0 d
1.3.1.3	**WQB Power Supplies**	**5/2/05**	**5/22/06**	**1**	**100%**	**0 d**
1.3.1.3.1	WQB P.S. Procurement & Delivery	5/2/05	7/29/05	1	100%	0 d
1.3.1.3.2	WQB P.S. Assembly	6/30/05	11/30/05	1	100%	0 d
1.3.1.3.3	WQB P.S. Testing	9/1/05	11/30/05	1	100%	0 d
1.3.1.3.4	WQB P.S. Ready for Installation	3/1/06	3/1/06	1	100%	0 d
1.3.1.3.5	WQB P.S. Install	3/1/06	4/21/06	1	100%	0 d
1.3.1.3.6	WQB P.S. Installation Complete	5/22/06	5/22/06	1	100%	0 d
1.3.1.3.7	WQBs System Installed	5/22/06	5/22/06	1	100%	0 d
1.3.1.4	WQB Spares Units 8-9	9/20/05	7/21/06	1	100%	0 d
1.3.2	**Collimation Systems**	**2/1/05**	**9/26/07**	**0.53**	**82%**	**62 d**
1.3.2.1	**Collimation Systems Design**	**2/1/05**	**9/26/07**	**0.93**	**87%**	**62 d**
1.3.2.1.1	**MI Loss Studies**	**2/1/05**	**8/15/06**	**1**	**97%**	**118 d**
1.3.2.1.1.	MI Loss Studies: Beam	2/1/05	2/27/06	1	100%	0 d
1.3.2.1.1.	**MI Loss Studies: Simulation**	**3/10/05**	**8/15/06**	**1**	**94%**	**118 d**
1.3.2.1.1.	MI Loss Study: Simulation	5/2/05	2/21/06	1	100%	0 d
1.3.2.1.1.	MI-8 Loss Study: Simulation	3/10/05	8/15/06	1	90%	118 d



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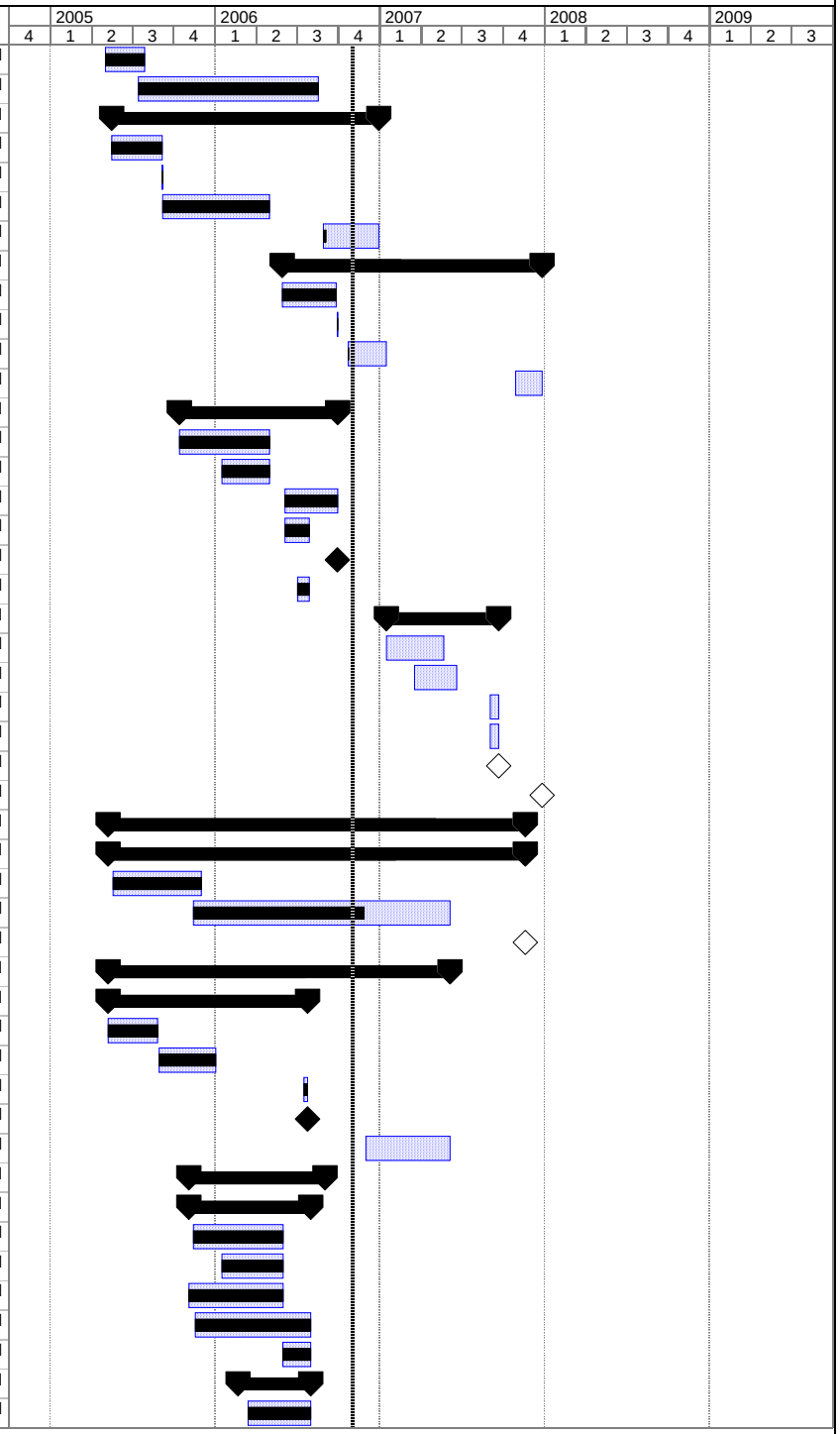
1.3.2.1.1.	Exploratory Residual Radiation Measurements	2/1/05	4/28/05	1	100%	0 d
1.3.2.1.1.	Systematic Residual Radiation Measurements	4/15/05	5/18/06	1	100%	0 d
1.3.2.1.2	**MI-8 Collimation System Design & Commission**	**2/15/05**	**9/29/06**	**1**	**75%**	**310 d**
1.3.2.1.2.	Develop Concept for MI-8 Collimation System	2/15/05	6/6/05	1	100%	0 d
1.3.2.1.2.	Review Concept for MI-8 Collimation System	6/7/05	6/7/05	1	100%	0 d
1.3.2.1.2.	Design MI-8 Collimation System	6/8/05	1/30/06	1	100%	0 d
1.3.2.1.2.	MI-8 Collimation System Commissioning	5/30/06	9/29/06	1	5%	310 d
1.3.2.1.3	**MI Collimation System Design & Commission**	**2/28/06**	**9/26/07**	**0.82**	**46%**	**62 d**
1.3.2.1.3.	Develop Concept for MI Collimation System	2/28/06	6/27/06	1	100%	0 d
1.3.2.1.3.	Review Concept for MI Collimation System	6/30/06	6/30/06	1	100%	0 d
1.3.2.1.3.	Design MI Collimation System	7/24/06	10/16/06	1	2%	75 d
1.3.2.1.3.	MI Collimation System Commissioning	7/30/07	9/26/07	0	0%	62 d
1.3.2.2	**MI-8 Collimation Syst Procure/Fab/Install**	**7/15/05**	**6/30/06**	**1**	**100%**	**0 d**
1.3.2.2.1	Procure MI-8 Collimation System	7/15/05	1/30/06	1	100%	0 d
1.3.2.2.2	Fabricate MI-8 Collimation System	10/17/05	1/30/06	1	100%	0 d
1.3.2.2.3	Install MI-8 Collimators - AD	3/6/06	6/30/06	1	100%	0 d
1.3.2.2.4	Install MI-8 Collimators - PPD	3/6/06	4/28/06	1	100%	0 d
1.3.2.2.5	MI-8 Collimators Installation Complete	6/30/06	6/30/06	1	100%	0 d
1.3.2.2.6	MI-8 Collimation Adjustment Activity for UID 252 Already Closed	4/3/06	4/28/06	1	100%	0 d
1.3.2.3	**MI Collimation Syst Procure/Fab/Install**	**10/17/06**	**6/22/07**	**0**	**0%**	**24 d**
1.3.2.3.1	Procure MI Collimation System	10/17/06	2/20/07	0	0%	75 d
1.3.2.3.2	Fabricate MI Collimation System (Future Parent)	12/18/06	3/21/07	0	0%	75 d
1.3.2.3.3	Install/Align MI Collimation System - AD	6/4/07	6/22/07	0	0%	24 d
1.3.2.3.4	Install/Align MI Collimation System - PPD	6/4/07	6/22/07	0	0%	24 d
1.3.2.3.5	MI Collimation System Install/Align Complete	6/22/07	6/22/07	0	0%	24 d
1.3.2.4	Main Injector Loss Mitigation Complete	9/26/07	9/26/07	0	0%	62 d
1.3.3	**NuMI Multibatch Operation**	**2/7/05**	**8/20/07**	**0.76**	**78%**	**51 d**
1.3.3.1	**Multi-batch Studies**	**2/7/05**	**8/20/07**	**0.81**	**69%**	**51 d**
1.3.3.1.1	Mixed Mode Operation (5)	2/18/05	9/1/05	1	100%	0 d
1.3.3.1.2	Studies for NuMI Slip Stacking	8/15/05	3/6/07	0.67	67%	168 d
1.3.3.1.3	Slip Stacking for NuMI Complete	8/20/07	8/20/07	0	0%	51 d
1.3.3.1.4	**Barrier Bucket R&D**	**2/7/05**	**3/6/07**	**0.84**	**58%**	**168 d**
1.3.3.1.4.	**Barrier Bucket Cavity**	**2/7/05**	**4/24/06**	**1**	**100%**	**0 d**
1.3.3.1.4.	Barrier Bucket Cavity Procurement	2/7/05	5/27/05	1	100%	0 d
1.3.3.1.4.	Barrier Bucket Cavity Fabrication/Assembly	5/31/05	10/3/05	1	100%	0 d
1.3.3.1.4.	Barrier Bucket Cavity Installation	4/17/06	4/24/06	1	100%	0 d
1.3.3.1.4.	Barrier Bucket Cavity Installation Complete	4/24/06	4/24/06	1	100%	0 d
1.3.3.1.4.	Barrier Bucket Commissioning	9/1/06	3/6/07	0.44	0%	168 d
1.3.3.2	**Injection Kicker Modifications (Cooling System)**	**8/5/05**	**6/2/06**	**1**	**100%**	**0 d**
1.3.3.2.1	**Inj Kicker Mods Design/Drafting & Procurement**	**8/5/05**	**5/1/06**	**1**	**100%**	**0 d**
1.3.3.2.1.	Inj Kicker Mods Load Temperature Control System Design	8/15/05	3/1/06	1	100%	0 d
1.3.3.2.1.	Inj Kicker Mods Magnet & Load Prototype Testing	10/17/05	3/1/06	1	100%	0 d
1.3.3.2.1.	Inj Kicker Mods Procure Resistors & High Power Parts	8/5/05	3/1/06	1	100%	0 d
1.3.3.2.1.	Inj Kicker Mods Procure Control Skid & Temperature Controls	8/19/05	5/1/06	1	100%	0 d
1.3.3.2.1.	Inj Kicker Mods	3/1/06	5/1/06	1	100%	0 d
1.3.3.2.2	**Inj Kicker Mods Assemble/Test**	**11/22/05**	**5/1/06**	**1**	**100%**	**0 d**
1.3.3.2.2.	Inj Kicker Mods Assemble/Test Control Skid	12/14/05	5/1/06	1	100%	0 d



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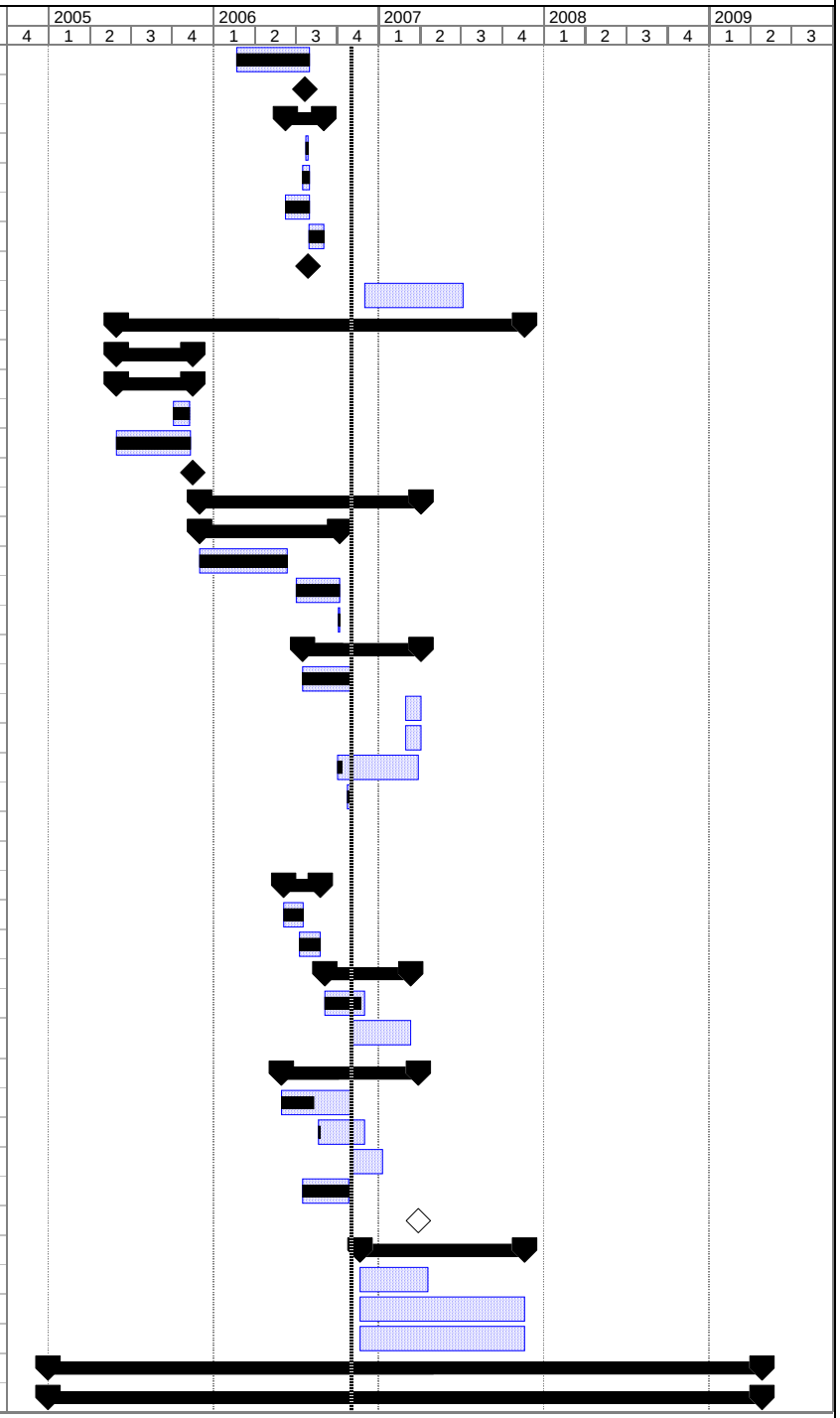
1.3.3.2.2.	Inj Kicker Mods Assemble/Test Resistors	11/22/05	5/1/06	1	100%	0 d
1.3.3.2.2.	Injection Kicker Mod Ready for Installation	4/21/06	4/21/06	1	100%	0 d
1.3.3.2.3	**Inj Kicker Mods Installation**	**3/10/06**	**6/2/06**	**1**	**100%**	**0 d**
1.3.3.2.3.	Inj Kicker Mods Install Control Skid in MI-10 incl Power	4/24/06	4/28/06	1	100%	0 d
1.3.3.2.3.	Inj Kicker Mods Install Low Conductivity Water for Control Skid	4/17/06	5/1/06	1	100%	0 d
1.3.3.2.3.	Inj Kicker Mods Install Resistors on Magnet & FC77 Plumbing from Svc Bldg in Tunnel	3/10/06	5/1/06	1	100%	0 d
1.3.3.2.3.	Inj Kicker Mods Commissioning	5/1/06	6/2/06	1	100%	0 d
1.3.3.2.3.	Injection Kicker Mods Complete	4/28/06	4/28/06	1	100%	0 d
1.3.3.3	Extraction Kicker Modifications	9/1/06	4/6/07	0	0%	78 d
1.3.4	**Main Injector RF Upgrade**	**3/1/05**	**8/20/07**	**0.35**	**40%**	**51 d**
1.3.4.1	**MI RF Upgrade Prototype**	**3/1/05**	**8/16/05**	**1**	**100%**	**0 d**
1.3.4.1.1	**Test MI RF Upgrade Prototype Cavity in MI**	**3/1/05**	**8/16/05**	**1**	**100%**	**0 d**
1.3.4.1.1.	High Intensity Beam Studies	7/5/05	8/9/05	1	100%	0 d
1.3.4.1.1.	Upgrade MI RF Prototype Cavity	3/1/05	8/11/05	1	100%	0 d
1.3.4.1.1.	MI RF Cavity Prototype Decision	8/16/05	8/16/05	1	100%	0 d
1.3.4.2	**MI RF Upgrade Studies**	**9/1/05**	**1/3/07**	**0.99**	**65%**	**211 d**
1.3.4.2.1	**MI RF Power Study**	**9/1/05**	**7/7/06**	**1**	**100%**	**0 d**
1.3.4.2.1.	MI RF Cavity Detuning & Power Meas w/Beam	9/1/05	3/13/06	1	100%	0 d
1.3.4.2.1.	MI RF Power Measurement Analysis	4/3/06	7/7/06	1	100%	0 d
1.3.4.2.1.	MI RF Power Measurement Report	7/5/06	7/7/06	1	100%	0 d
1.3.4.2.2	**MI RF Beam Loading Compensation Syst Studies**	**4/17/06**	**1/3/07**	**1**	**35%**	**211 d**
1.3.4.2.2.	MI RF Feed Forward Syst Characterization	4/17/06	7/31/06	1	100%	0 d
1.3.4.2.2.	MI RF Cavity Tuning Control Syst Characterization	12/1/06	1/3/07	1	0%	211 d
1.3.4.2.2.	MI RF Direct RF Feedback Syst Characterization	12/1/06	1/3/07	1	0%	211 d
1.3.4.2.2.	MI RF Modeling & Simulations	7/3/06	12/28/06	1	5%	213 d
1.3.4.2.2.	MI RF Beam Loading Compensation Sys Report	7/25/06	7/31/06	1	100%	0 d
1.3.4.2.3	MI RF Upgrade Scope Review	7/31/06	7/31/06	0	100%	0 d
1.3.4.2.4	MI RF Upgrade Scope Decision	7/31/06	7/31/06	0	100%	0 d
1.3.4.3	**MI RF Syst Calibration w/MRF**	**3/6/06**	**5/25/06**	**1**	**100%**	**0 d**
1.3.4.3.1	MI RF Calibration Procedure Design & Development	3/6/06	4/17/06	1	100%	0 d
1.3.4.3.2	MI RF Calibrate 18 Stations w/Mid-Level RF	4/10/06	5/25/06	1	100%	0 d
1.3.4.4	**MI RF Modulator Power Dissipation Resolution**	**6/5/06**	**12/11/06**	**0.65**	**37%**	**224 d**
1.3.4.4.1	MI RF Cavity Tuner Voltage Limit Studies	6/5/06	8/31/06	1	90%	224 d
1.3.4.4.2	MI RF Mid-Level RF Anode Prog Control Des/Studies & Implementation	8/1/06	12/11/06	0.6	0%	224 d
1.3.4.5	**MI RF Cavity Protection Syst**	**3/1/06**	**12/28/06**	**0.93**	**42%**	**213 d**
1.3.4.5.1	MI RF PMT Spark Detector Syst Prototype	3/1/06	8/1/06	1	48%	315 d
1.3.4.5.2	MI RF PA & Modulator Calorimetry Prototype	5/22/06	8/31/06	1	5%	293 d
1.3.4.5.3	MI RF Cavity RF Interlock Syst Mods (TriggersCavity Short)	8/1/06	10/10/06	0.61	0%	266 d
1.3.4.5.4	MI RF Power Dissipation Protection Module	4/17/06	7/27/06	0.61	100%	0 d
1.3.4.5.5	MI RF Cavity Protection Syst Complete	12/28/06	12/28/06	0	0%	213 d
1.3.4.6	**MI RF Beam Loading Compensation Syst Upgrades**	**8/22/06**	**8/20/07**	**0**	**0%**	**51 d**
1.3.4.6.1	MI RF Feed Forward Syst IF Frequency Change	8/22/06	1/18/07	0	0%	201 d
1.3.4.6.2	MI RF Cavity Tuning Controller Upgrade	8/22/06	8/20/07	0	0%	51 d
1.3.4.6.3	MI RF Digital Comb Filter Feedback	8/22/06	8/20/07	0	0%	51 d
1.4	**Management**	**10/1/04**	**1/26/09**	**0.45**	**54%**	**59 d**
1.4.1	**Management**	**10/1/04**	**1/26/09**	**0.45**	**54%**	**59 d**



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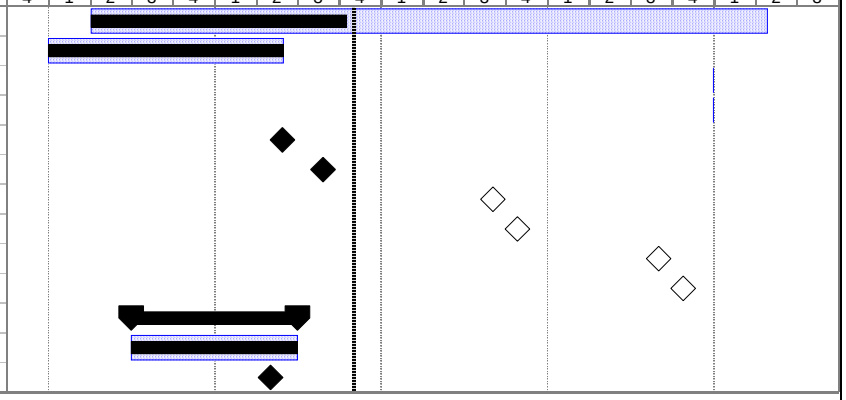
1.4.1.1	Project Management	1/3/05	1/26/09	0.38	38%	59 d
1.4.1.2	Development of SubProjects/Reviews	10/1/04	2/28/06	1	100%	0 d
1.4.2	Management Reserve OP	9/30/08	9/30/08	1	0%	136 d
1.4.3	Management Reserve EQ	9/30/08	9/30/08	1	0%	136 d
1.4.4	Start 2006 Shutdown	2/27/06	2/27/06	1	100%	0 d
1.4.5	Finish 2006 Shutdown	5/26/06	5/26/06	1	100%	0 d
1.4.6	Start 2007 Shutdown	6/4/07	6/4/07	0	0%	0 d
1.4.7	Finish 2007 Shutdown	7/27/07	7/27/07	0	0%	0 d
1.4.8	Start 2008 Shutdown	6/2/08	6/2/08	0	0%	0 d
1.4.9	Finish 2008 Shutdown	7/25/08	7/25/08	0	0%	0 d
1.5	**Proton Plan Study Group**	**4/1/05**	**3/31/06**	**1**	**100%**	**0 d**
1.5.1	Study Group Mtgs & Report Preparation	4/1/05	3/31/06	1	100%	0 d
1.5.3	Submit Final Proton Study Group Report	2/1/06	2/1/06	1	100%	0 d



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