

ID	Task Name	% Complete	2005												
			4th Quarter				1st Quarter			2nd Quarter			3rd Quarter		4th Qu
			Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	White Beam Conditioning (WBC)	69%													
38	Preliminary Beamline Complete	100%													
39	Monochromator Cask (DFMC)	90%													
103	Monochromatic Beam Transport (MBT)	45%													
131	First Monochromatic Beam Out	0%													
132	Sample Positioning (SPS)	82%													
139	Neutron Detection System (NDS)	27%													
187	Get Lost Pipe (GLP)	49%													
201	Cross Cutting Tasks (CCT)	8%													
232	Ready for Commisioning	0%													
233	MACS Commisioning	0%													
234	Ready for CHRNS Users	0%													

Project: MACS schedule v8 Date: Thu 1/20/05	Task		Rolled Up Task		External Tasks	
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			Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	White Beam Conditioning (WBC)	69%													
2	Beamline Shielding Walls (BSW)	95%													
3	BSW Concept design proposal	100%													
4	BSW 3D design	100%													
5	BSW Detailed design	100%													
6	BSW Manufacturing	90%	actor												
7	Beam Tube Insert	100%													
8	BT Concept design proposal	100%													
9	BT 3D design	100%													
10	BT Detailed design	100%													
11	BT Manufacturing	100%	actor												
12	Shutter	90%													
13	Shutter Concept design proposal	100%													
14	Shutter 3D design	100%													
15	Shutter Dummy Detailed Design	100%													
16	Shutter Dummy Manufacturing	100%	ineering												
17	Shutter detailed design	100%	ineering												
18	Shutter Manufacturing	100%	Merrick Engineering												
19	Shutter Assembly and testing	50%	NCNR Mech. Techn.,NCNR Electr. Techn.[50%],NCNR Mech. En												
20	Cryo Filter Exchanger	19%													
21	CFX Concept design proposal	100%													
22	RFQ and contract negotiations	100%	ntractor,Paul Homborg												
23	Phase I	90%	T. Pike[5%],CFX contract engineering												
24	Phase II	0%	CFX contract engineering,T. Pike[5%]												
25	Phase III	0%	CFX contract engineering,T. Pike[2%]												
26	Phase IV	0%	CFX contract engineering												
27	Incident beam Sapphire filter purchase	5%													
28	Incident beam PG filter purchase	5%													

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57	VBA Mechanical manufacturing RFQ	100%	Instr. Dev. Group[25%]												
58	VBA Mechanical manufacturing	99%	Instr. Dev. Group[15%], IDG Mech. Eng. Contr.												
59	VBA Electrical system design	100%	80%												
60	VBA Electrical system fabrication	100%	Instr. Dev. Group[80%]												
61	VBA Assembly and testing at JHU	85%	T. Pike[2%], Instr. Dev. Group[80%]												
62	Doubly Focusing Monochromator	77%													
63	Complete and test DFM software and electror	90%	Instr. Dev. Group[80%]												
64	DFM wiring	100%													
65	Machine PG crystals	30%	Instr. Dev. Group[25%]												
66	Mount PG crystals	20%	Instr. Dev. Group[20%]												
67	Calibration/Cycle	100%	Instr. Dev. Group												
68	Cable Takeup Rework	100%													
69	Pivot Rework if necessary	100%	Instr. Dev. Group[98%]												
70	Monochromator Transport (DTS)	96%													
71	DTS Concept design proposal	100%													
72	DTS 3D design proposal	100%													
73	DTS Requirements review	100%													
74	DTS Detailed 3D design	100%	%]												
75	DTS Mechanical design drafting	100%	roup[80%]												
76	DTS Mechanical manufacturing RFQ	100%	tr. Dev. Group[25%]												
77	DTS Mechanical manufacturing	100%	Instr. Dev. Group[15%], DG Mech. Eng. Contr.												
78	DTS Electrical system design	100%	Instr. Dev. Group[80%]												
79	DTS Electcal system fabrication	93%	Instr. Dev. Group[80%]												
80	DTS Assembly and testing at JHU	85%	Instr. Dev. Group[80%], T. Pike[2%]												
81	DFMC Liner	83%													
82	DFMC Concept design proposal	100%													
83	DFMC 3D design proposal	100%													
84	DFMC Requirements review	100%													

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85	DFMC Detailed 3D design	100%	Instr. Dev. Group[60%]												
86	DFMC Mechanical design drafting	100%	Instr. Dev. Group[80%]												
87	DFMC Mechanical manufacturing RFQ	100%	Instr. Dev. Group[25%]												
88	DFMC Manufacturing	0%	Instr. Dev. Group[15%],IDG Mech. Eng. Contr.												
89	DFMC assembly and testing at NCNR	0%													
90	DFMC shot/wax backfill at NCNR	0%													
91	DFMC Integration	58%													
92	Cask support structure design	100%	Instr. Dev. Group[80%]												
93	Cask support structure fabrication	100%	Instr. Dev. Group[15%],IDG Mech. Eng. Contr.												
94	DTS integration	20%	Instr. Dev. Group[200%]												
95	DFM Integration	20%	Instr. Dev. Group[200%]												
96	VBA integration	20%	Instr. Dev. Group[200%]												
97	ICX integration	20%	Instr. Dev. Group[200%]												
98	Subsystem alignment	0%	Instr. Dev. Group[200%]												
99	DFMC Installation	0%													
100	Package for shipping	0%	Instr. Dev. Group[200%]												
101	ICX,VBA,DTS,DFM, Bench ship to NGO	0%	Instr. Dev. Group,NCNR Mech. Techn.[5%]												
102	ICX,VBA,DTS,DFM install in cask	0%	Instr. Dev. Group[50%],NCNR Electr. Engineeri												
103	Monochromatic Beam Transport (MBT)	45%													
104	Static MBT shielding	98%													
105	MBT shielding conceptual design proposal	100%													
106	MBT shielding 3D design	100%													
107	MBT shielding Detailed design	100%	,NCNR sub-contractor												
108	MBT shielding Manufacturing	95%	P. Hundertmark[5%],NCNR sub-contractor												
109	Supermirror Guide System (SMG)	31%													
110	SMG Concept design proposal	100%													
111	SMG 3D design	95%													
112	SMG Detailed design	65%	T. Pike[10%],P. Hundertmark												

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113	SMG Manufacturing	0%	NCNR sub-contractor												
114	SMG Assembly and testing	0%	T. Pike[10%],P. Hundertmark[50%],NCNR Mech. Te												
115	SMG Commercial Hardware	50%													
116	MBT main shielding Installation	0%	T. Pike[5%],P. Hundertmark[50%],NCNR Mech.												
117	Pre-Sample Optics (PSO)	33%													
118	Monitor	0%													
119	Attenuator exchanger	42%													
120	AEX Concept design proposal	90%													
121	AEX 3D design	40%													
122	AEX Detailed design	50%	U@NIST Sub contractor												
123	Attenuator Exchanger Manufacturing	0%	P. Hundertmark[5%],JHU@NIST Sub contractor												
124	Monochr. Variable Beam Aperture	37%													
125	MVBA Concept design proposal	90%	C. Broholm[5%],T. Pike												
126	MVBA 3D design	40%	T. Pike[10%],P. Hundertmark												
127	MVBA Detailed design	50%	T. Pike[10%],P. Hundertmark												
128	MVBA Manufacturing	0%	JHU@NIST Sub contractor												
129	PSO Integration and testing	0%	C. Broholm[10%],P. Hundertmark[50%],NCNR												
130	PSO installation	0%	T. Pike[10%],NCNR Mech. Techn. [
131	First Monochromatic Beam Out	0%	4/28												
132	Sample Positioning (SPS)	82%													
133	SPS conceptual design proposal	100%													
134	SPS 3D design	100%	T. Pike[10%],PAI design services												
135	SPS Detailed design	99%	T. Pike[5%],PAI design services												
136	SPS Manufacturing	0%	T. Pike[5%],PAI design services												
137	SPS assembly and testing	0%	T. Pike[10%],NCNR Mech. Techn.[50%],NCNR EI												
138	SPS installation at NG0 site	0%	T. Pike[10%],NCNR Mec												
139	Neutron Detection System (NDS)	27%													
140	Monochr. Cryo-Filter Exchanger (MCI)	9%													

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141	MCFX Concept design proposal	50%	C. Broholm[5%], T. Pike, Paul Kopetka[30%]												
142	Development of RFQ documentation	0%	C. Broholm[20%], T. Pike[10%], Paul Kopetka[20%]												
143	MCFX BeO procurement	10%													
144	MCFX Be procurement	10%													
145	MCFX PG procurement	0%													
146	MCFX Vendor selection process	0%	Paul Kopetka[10%], NIST purchasing												
147	MCFX 3D design	0%	NCNR sub-contractor												
148	MCFX detailed design	0%	NCNR sub-contractor												
149	MCFX Manufacturing	0%	NCNR sub-contractor												
150	MCFX tests by vendor	0%	NCNR sub-contractor												
151	MCFX packing and shipping to NCNR	0%	NCNR sub-contract												
152	Mount filters in MCFX	0%													
153	MCFX cold test at NCNR	0%													
154	Monochr. Collimator Exchanger (MC)	32%													
155	MCX Concept design proposal	70%	T. Pike[50%], C. Broholm[10%], P. Hundertmark[20%]												
156	MCX 3D design	20%	T. Pike[10%], Paul Homborg												
157	Procurement of MCX Collimators	0%	P. Hundertmark[5%], T. Pi												
158	MCX Detailed design	0%	T. Pike[10%], Paul Homborg												
159	MCX Manufacturing	0%	T. Pike[10%], JHU@NIST												
160	MCX Assembly and testing	0%	NCNR Mech. Techn.												
161	Double Crystal Analyzer (DXAL)	60%													
162	DXAL Concept design proposal	100%													
163	DXAL 3D design	100%													
164	DXAL Detailed design	100%													
165	DXAL Manufacturing	20%	T. Pike[5%], Exonics												
166	DXAL Assembly and testing	0%	T. Pike[15%], NCNR Mech. Techn., NCNR Electr. Techn.												
167	Kidney Shielding (KS)	36%													
168	KS Concept design proposal	100%													

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169	KS 3D design	50%	T. Pike													
170	KS Detailed design	33%	T. Pike, NCNR Electr. Engineering[20%]													
171	Kidney shield Manufacturing	0%	NCNR Manufacturing contract													
172	Detectors and Electronics Acquisition	30%	C. Broholm[2%], NCNR Electr. Engineering[5%]													
173	Neutron Camera (NCA)	38%														
174	NCA Concept design proposal	100%														
175	NCA Detailed design completion	50%	up													
176	NCA Completion Manufacturing	0%	ev. Group[5%]													
177	NCA re-assembly and testing	0%	v. Group													
178	NDS Actuation (NDSA)	29%														
179	NDSA Concept design proposal	100%														
180	NDSA 3D design	100%														
181	NDSA Detailed design	95%	I. Homborg													
182	RFQ for detector system support	10%	P. Hundertmark[20%], T. Pike[10%], NCNR Mech. Engineering[10%]													
183	NDSA Manufacturing	0%	T. Pike[5%], NCNR Manufacturing contract													
184	NDSA Assembly and testing	0%	T. Pike[10%], C. Broholm[10%], NCNR Mech. Techn., NC													
185	NDS assembly and testing	0%	T. Pike[5%], NCNR Mech. Tech													
186	NDS installation at NG0 site	0%	NCNR M													
187	Get Lost Pipe (GLP)	49%														
188	Shielding Walls (GLPS)	25%														
189	GLPS Concept design proposal	100%														
190	GLPS 3D design	90%														
191	GLPS detailed design	70%	R. Mech. Engineering													
192	Get lost pipe shielding Manufacturing	0%	NCNR Mech. Engineering[5%], NCNR sub-contractor													
193	filling and painting GLP shields at NCNR	0%														
194	GLP Helium Liner (GLPH)	100%														
195	GLPH Concept design proposal	100%														
196	GLPH 3D design	100%														

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197	GLPH detailed design	100%														
198	GLPH Manufacturing	100%														
199	GLPH Assembly and testing	100%														
200	GLP Installation at NG0 site	0%														
201	Cross Cutting Tasks (CCT)	8%														
202	Site preparation for Experiments	4%														
203	City Planning	15%														
204	Mezzanine	0%														
205	Mezzanine conceptual design	0%														
206	Mezzanine 3D design	0%														
207	Mezzanine detailed design	0%														
208	Mezzanine manufacturing	0%														
209	Mezzanine installation	0%														
210	Instrument control station	0%														
211	Central Instrument Control Hardware	0%														
212	procure instrument control hardware	0%														
213	Delivery of CICH	0%														
214	Configure for use on MACS	0%														
215	Instrument Software	0%														
216	Software for controle of MACS	0%														
217	Software for analysis of MACS data	0%														
218	Deployment and testing on MACS hardware	0%														
219	Dance floor (DF)	36%														
220	DF Concept design proposal	100%														
221	DF 3D design	100%														
222	DF detailed design	81%														
223	Dance Floor Manufacturing	0%														
224	DF installation and testing	0%														

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225	Helium purging system (HPS)	8%													
226	HPS Concept design proposal	80%													
227	HPS 3D design	0%													
228	HPS detailed design	0%													
229	HPS acquisition and manufacturing	0%													
230	HPS Installation	0%													
231	removal of present equipment	70%													
232	Ready for Commisioning	0%													
233	MACS Commisioning	0%													
234	Ready for CHRNS Users	0%													

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