Activity ID	Activity Description	Early Start	Work Days	Early Finish	Total Float
12 - Vacuum Vessel Systems					
Job:1204 - WBS 12 Title III, Procure,Fabricate					
121-038	FABRICATE VVSA	01OCT04*	290*	19NOV05	296
14 - Modular Coils					
Job: 1411-Modular Coil Casting Fab-HEITZENROEDER					
Type C Castings					
1065	Inspect & Weld Repair C-1	01NOV04*	25	07DEC04	126
1070.1	Machine First Poloidal Break C-1	08DEC04	25	14JAN05	126
1070.2	Machine Flanges & Bolt Holes C-1	17JAN05	25	18FEB05	126
1070.3	Machine Tee C-1	21FEB05	37	12APR05	126
1071	Ship C-1 to PPPL	09MAY05*	5	13MAY05	108
C-121.1	First MCWF Delivered		0	13MAY05	116
1074	Build mold C-2	15OCT04*	15	04NOV04	155
1075	Pour C-2	05NOV04	20	06DEC04	155
1080	Inspect & Weld Repair C-2	08DEC04	20	07JAN05	154
1090.1	Machine First Poloidal Break C-2	17JAN05	20	11FEB05	149
1090.2	Machine Flanges & Bolt Holes C-2	21FEB05	20	18MAR05	144
1090.3	Machine Tee C-2	13APR05	19	09MAY05	127
1092	Ship C-2 to PPPL	06JUN05	5	10JUN05	108
1091	Second Casting Delivered to PPPL		0	10JUN05	108
1094	Build mold C-3	05NOV04	10	18NOV04	187
1095	Pour C-3	07DEC04	10	20DEC04	177
1100	Inspect & Weld Repair C-3	10JAN05	10	02FEB05	166
1110.1	Machine First Poloidal Break C-3	14FEB05	15	04MAR05	159
1110.2	Machine Flanges & Bolt Holes C-3	21MAR05	15	08APR05	149
1110.3	Machine Tee C-3	10MAY05*	15	03JUN05	128
1112	Ship C-3 to PPPL	04JUL05	5	08JUL05	108
1111	Third Casting Delivered to PPPL		0	08JUL05	108
C-321	Castings-C-4	11JUL05	19	04AUG05	131
C-401	Castings-C-5	08AUG05	19	02SEP05	131
C-461	Castings-C-6	07SEP05	19	03OCT05	131
Type B Castings					
C-141	Castings-B-1	06OCT05	19	01NOV05	131
C-201	Castings-B-2	02NOV05	19	29NOV05	131
C-281	Castings-B-3	01DEC05	19	27DEC05	131
C-341	Castings-B-4	30DEC05	19	25JAN06	131
C-421	Castings-B-5	30JAN06	19	23FEB06	131
C-481	Castings-B-6	28FEB06	19	24MAR06	131
Type A Castings					
C-161B	Castings-A-1	29MAR06	19	24APR06	131
C-221B	Castings-A-2	27APR06	19	23MAY06	131
C-301B	Castings-A-3	26MAY06	19	21JUN06	131
C-361B	Castings-A-4	22JUN06	19	18JUL06	131
C-441B	CastingsA-5	21JUL06	19	16AUG06	131
C-501B	Castings-A-6 (last MCC form delivered)	21AUG06	19	14SEP06	131
C-501B1	Last MCWF Delivered		0	14SEP06	131
Job: 1423 - Winding/VPI Tasks CHRZANOWSKI					
Station 1 Prep, Install Cladding, Final Clamps					
P1-001	Receive C1, Prep& Instl Cladding(Station 1)	16MAY05	12	01JUN05	113
P1-091	Receive C2, Prep& Instl Cladding(Station 1)	13JUN05	12	28JUN05	106
P2-001	Receive C3, Prep& Instl Cladding(Station 1)	11JUL05	12	26JUL05	105
P2-091	Receive C4, Prep& Instl Cladding(Station 1)	05AUG05	12	22AUG05	138
P3-001	Receive C5, Prep& Instl Cladding(Station 1)	06SEP05	12	21SEP05	129
P3-091	Receive C6, Prep& Instl Cladding(Station 1)	04OCT05	12	19OCT05	127
P1-031	Receive B-1, Prep& Instl Cladding(Station 1)	30NOV05	12	15DEC05	121
P1-121	Receive B-2, Prep& Instl Cladding(Station 1)	16DEC05	12	10JAN06	121
P2-031	Receive B-3, Prep& Instl Cladding(Station 1)	11JAN06	12	26JAN06	127
P2-121	Receive B-4, Prep& Instl Cladding(Station 1)	27JAN06	12	13FEB06	148
P3-031	Receive B-5, Prep& Instl Cladding(Station 1)	24FEB06	12	13MAR06	140
P3-121	Receive B-6, Prep& Instl Cladding(Station 1)	27MAR06	12	11APR06	137
P1-061	Receive A-1, Prep& Instl Cladding(Station 1A)	25APR06	12	10MAY06	151
P1-151	Receive A-2, Prep& Instl Cladding(Station 1A)	24MAY06	12	08JUN06	146
P2-061	Receive A-3, Prep& Instl Cladding(Station 1A)	22JUN06	12	10JUL06	138
P2-151	Receive A-4, Prep& Instl Cladding(Station 1A)	19JUL06	12	03AUG06	137
P3-061	Receive A-5, Prep& Instl Cladding(Station 1A)	17AUG06	12	01SEP06	128
P3-151	Receive A-6, Prep& Instl Cladding(Station 1A)	15SEP06	12	02OCT06	124
Station 2-Winding, Instl Chill Plates,Tubing,Bag					
P1-011	Wind coil C-1 (station 2)	02JUN05*	49	10AUG05	113
P1-020	Instl Chill Plates,Tubing, Bag C1 (Station 2)	11AUG05	33	27SEP05	113
P2-101	Wind coil C-4 (station2)	28SEP05	38	18NOV05	113
P2-110	Instl Chill Plates,Tubing, Bag C4(Station 2)	21NOV05	25	04JAN06	113
P3-041	Wind coil B1 (station 2)	05JAN06	38	27FEB06	113
P1-050	Instl Chl Plates,Tubing, Bag B1(Station 2)	28FEB06	25	03APR06	113
P2-131	Wind coil B4 (station 2)	04APR06	38	25MAY06	113
P2-140	Instl Chl Plates,Tubing, Bag B4(Station 2) 2shift	28MAY06	12	13JUN06	113
P1-071	Wind coil A1 (station 2)**2 shift	15JUN06	16	11JUL06	125
P1-080	Instl Chl Plates,Tubing,Bag A1(Station 2)**2 shift	12JUL06	11	26JUL06	125
P2-161	Wind coil A4 (station 2) **2 shift	04AUG06	14	23AUG06	139
P2-170	Instl Chill Plates,Tubing,Bag A4(Station2)**2 shift	24AUG06	10	07SEP06	139
Station 3-Winding, Instl Chill Plates,Tubing,Bag					
P1-101	Wind coil C-2(Station 3)	29JUN05*	49	07SEP05	106
P1-110	Instl Chill Plates,Tubing, Bag C2 (Station 3)	08SEP05	33	24OCT05	106
P3-011	Wind coil C-5 (station 3)	25OCT05	38	19DEC05	106
P3-020	Instl Chill Plates,Tubing, Bag C5 (Station 3)	20DEC05	25	31JAN06	106
P3-131	Wind coil B2 (station 3)	01FEB06	38	24MAR06	106
P1-140	Instl Chl Plates,Tubing, Bag B2(Station 3)	27MAR06	25	28APR06	106
P3-041	Wind coil B5 (station 3)	01MAY06	38	22JUN06	106
P3-050	Instl Chl Plates,Tubing, Bag B5(Station 3)2 shift	23JUN06	12	11JUL06	106
P1-161	Wind coil A2 (station 3) **2 shift	12JUL06	16	02AUG06	126
P1-170	Instl Chill Plates,Tubing,Bag A2(Station 3)*2shift	03AUG06	11	17AUG06	126
P3-071	Wind coil A5 (station 3) **2 shift	05SEP06	14	22SEP06	128
P3-080	Instl Chill Plates,Tubing,Bag A5(Station 3)*2shift	25SEP06	10	06OCT06	128
Station 4-Winding, Instl Chill Plates,Tubing,Bag					
P2-011	Wind coil C3 (station 4)	27JUL05	49	04OCT05	105
P2-020	Instl Chill Plates,Tubing, Bag C3 (Station 4)	05OCT05	33	18NOV05	105
P3-101	Wind coil C-6 (station 4)	23JAN06	38	23JAN06	105
P3-110	Instl Chill Plates,Tubing, Bag C6 (Station 4)	24JAN06	25	27FEB06	105
P3-041	Wind coil B3 (station 4)	28FEB06	38	20APR06	105
P2-050	Instl Chl Plates,Tubing, Bag B3 (Station 4)	21APR06	25	25MAY06	105
P3-131	Wind coil B6 (station 4)	26MAY06	38	20JUL06	105
P3-140	Instl Chl Plates,Tubing, Bag B6 (Station 4)2shift	21JUL06	12	07AUG06	105
P2-071	Wind coil A3 (station 4)**2 shift	08AUG06	16	29AUG06	118
P2-080	Instl Chill Plates,Tubing,Bag A3(Station 4)2shift	30AUG06	11	14SEP06	118
P3-161	Wind coil A6 (station 4)** 2 shift	03OCT06	14	20OCT06	124
P3-170	Instl Chill Plates,Tubing,Bag A6(Station 4)**2shift	23OCT06	10	09NOV06	124
Station 5-VPI					
P1-021V	VPI (Station 5) C1	28SEP05	14	17OCT05	165
P1-111V	VPI (Station 5) C2	25OCT05	14	11NOV05	160
P2-021V	VPI (Station 5) C3	21NOV05	14	12DEC05	155
P2-111V	VPI (Station 5) C4	05JAN06	14	24JAN06	144
P3-021V	VPI (Station 5) C5	01FEB06	13	17FEB06	139
P3-111V	VPI (Station 5) C6	28FEB06	13	16MAR06	133
P1-051V	VPI (Station 5) B1	04APR06	12	19APR06	121
P1-141V	VPI (Station 5) B2	03MAY06	12	18MAY06	114
P2-051V	VPI (Station 5) B3	26MAY06	12	13JUN06	107
P2-141V	VPI (Station 5) B4	22JUN06	12	10JUL06	107
P3-051V	VPI (Station 5) B5	12JUL06	12	27JUL06	106
P3-141V	VPI (Station 5) B6	08AUG06	12	23AUG06	105
P1-081V	VPI (Station 5) A1	24AUG06	11	08SEP06	105
P1-171V	VPI (Station 5) A2	19SEP06	11	03OCT06	105
P2-081V	VPI (Station 5) A3	04OCT06	10	17OCT06	105
P3-081V	VPI (Station 5) A4	26OCT06	10	08NOV06	105
P2-171V	VPI (Station 5) A5	09NOV06	10	22NOV06	105
P3-171V	VPI (Station 5) A6	05DEC06	10	18DEC06	105
Station 1B Final Clamp Installation					
P1-021C	Install Clamps (Station1) C1	18OCT05	7	26OCT05	258
P1-111C	Install Clamps (Station1) C2	14NOV05	7	22NOV05	247
P2-021C	Install Clamps (Station1) C3	13DEC05	6	20DEC05	237
P2-111C	Install Clamps (Station1) C4	25JAN06	6	01FEB06	219
P3-021C	Install Clamps (Station1) C5	20FEB06	5	24FEB06	209
P3-111C	Install Clamps (Station1) C6	17MAR06	5	23MAR06	197
P1-051C	Install Clamps (Station1) B1	20APR06	5	26APR06	180
P1-141C	Install Clamps (Station1) B2	17MAY06	5	23MAY06	166
P2-051C	Install Clamps (Station1) B3	14JUN06	5	20JUN06	156
P2-141C	Install Clamps (Station1) B4	11JUL06	5	17JUL06	145
P3-051C	Install Clamps (Station1) B5	28JUL06	5	03AUG06	139
P3-141C	Install Clamps (Station1) B6	24AUG06	5	30AUG06	127
P1-081C	Install Clamps (Station1) A1	11SEP06	5	15SEP06	123
P1-171C	Install Clamps (Station1) A2	04OCT06	5	10OCT06	113
P2-081C	Install Clamps (Station1) A3	18OCT06	5	24OCT06	117
P3-081C	Install Clamps (Station1) A4	08NOV06	5	15NOV06	108
P3-171C	Install Clamps (Station1) A5	27NOV06	4	30NOV06	115
P2-171C	Install Clamps (Station1) A6	19DEC06	4	22DEC06	105
Station 6- Coil Test Facility					
P1-021	Test Coil (Coil Test Stand) C1	27OCT05	8	07NOV05	258
P1-021.1	Complete First Mod Coil Fabrication C1		0	07NOV05	355
P1-111	Test Coil (Coil Test Stand) C2	23NOV05	8	06DEC05	247
P2-021	Test Coil (Coil Test Stand) C3	21DEC05	7	06JAN06	237
P2-111	Test Coil (Coil Test Stand) C4	02FEB06	7	10FEB06	219
P3-021	Test Coil (Coil Test Stand) C5	27FEB06	7	07MAR06	209
P3-111	Test Coil (Coil Test Stand) C6	24MAR06	7	03APR06	197
P1-051	Test Coil (Coil Test Stand) B1	27APR06	7	05MAY06	180
P1-141	Test Coil (Coil Test Stand) B2	24MAY06	7	02JUN06	166
P2-051	Test Coil (Coil Test Stand) B3	21JUN06	7	29JUN06	156
P2-141	Test Coil (Coil Test Stand) B4	18JUL06	7	26JUL06	145
P3-051	Test Coil (Coil Test Stand) B5	04AUG06	7	14AUG06	139
P3-141	Test Coil (Coil Test Stand) B6	31AUG06	7	11SEP06	127
P1-081	Test Coil (Coil Test Stand) A1	18SEP06	7	26SEP06	123
P1-171	Test Coil (Coil Test Stand) A2	11OCT06	7	19OCT06	113
P2-081	Test Coil (Coil Test Stand) A3	25OCT06	7	02NOV06	117
P2-171	Test Coil (Coil Test Stand) A4	16NOV06	7	28NOV06	108
P3-171	Test Coil (Coil Test Stand) A5	01DEC06	6	08DEC06	115
P3-081	Test Coil (Coil Test Stand) A6	02JAN07	6	09JAN07	105
18 - Field Period Assembly					
1808 - TF/Mod Coil Sub-Assembly-CHRZANOWSKI					
Modular Coil Sub-assembly					
184-200	Mount/align right mod coil in fixture-Period #1	27SEP06	15	17OCT06	135
184-205	Mount/align left mod coil in fixture-Period #1	20OCT06	12	06NOV06	113
184-210	Mount/align right mod coil in fixture-Period #2	03NOV06	12	20NOV06	133
184-215	Mount/align left mod coil in fixture-Period #2	29NOV06	12	14DEC06	108
184-220	Mount/align right mod coil in fixture-Period #3	11DEC06	12	03JAN07	130
184-225	Mount/align left mod coil in fixture-Period #3	10JAN07	12	25JAN07	105
Job:1810 - Field Period Assembly-CHRZANOWSKI					
Period 1					
P1-180	Rec'v VV,Attach cing tubes &insul to 1st Period	06MAR06	39	27APR06	220
P1-180.9	Begin Assembly of First Field Period	17NOV06	0		113
P1-181	Assemble 1st. Field Period - coils/ VV 2 shift	17NOV06	19	15DEC06	113
P1-191	>>>> Positionbweld port assemblies (Addl ECP 8)	18DEC06	15	15JAN07	113
P1-201	Leak chck & Bakeout vessel to 150 degrees C	16JAN07	7	24JAN07	113
P1-211	vacuum leak check & Instl Trim coil	25JAN07	25	28FEB07	113
P1-221	Prepare field period for shipment	01MAR07	5	07MAR07	113
P1-231	Ship 1st. Field period	08MAR07	3	12MAR07	113
P1-241	Field period 1 ready for installation	13MAR07	1	13MAR07	113
Period 2					
P2-180	Rec'v VV,Attach cing tubes &insul to 2nd Period	28APR06	39	22JUN06	220
P2-181	Assemble 2nd. Field Period- coils/ VV 2 shift	05JAN07	18	30JAN07	108
P2-191	>>> Positionbweld port assemblies (Addl ECP 8)	31JAN07	15	20FEB07	108
P2-201	Leak chck & Bakeout vessel to 150 degrees C	21FEB07	7	01MAR07	108
P2-211	vacuum leak check & Instl Trim coil	02MAR07	25	05APR07	108
P2-221	Prepare field period for shipment	06APR07	5	12APR07	108
P2-231	Ship 2nd. Field period	13APR07	3	17APR07	108
P2-241	Field Period 2 ready for installation	18APR07	1	18APR07	108
Period 3					
P3-180	Rec'v VV,Attach cing tubes &insul to 3rd Period	23JUN06*	39	17AUG06	220
P3-181	Assemble 3rd. Field Period - coils/ VV 2 shift	08FEB07	18	05MAR07	105
P3-191	>>> Positionbweld port assemblies (Addl ECP 8)	06MAR07	15	26MAR07	105
P3-201	Leak chck & Bakeout vessel to 150 degrees C6	27MAR07	7	04APR07	105
P3-211	vacuum leak check & Instl Trim coil	05APR07	25	09MAY07	105
P3-221	Prepare field period for shipment	10MAY07	5	16MAY07	105
P3-231	Ship 3rd. Field Period	17MAY07	3	21MAY07	105
P3-241	3rd. Period ready for installation	22MAY07	1	22MAY07	105
P3-241.1	Last Field Period Assembled		0	22MAY07	105
75 - Test Cell and Basement Assembly Operations					
7503 - Machine Assembly					
730.1000	Begin Assembly Activities	08SEP06*	0		178
730.1020	Install & Level Support Base Plates	08SEP06	15	28SEP06	178
730.1030	Install,Level Machine Support Columns	29SEP06	25	02NOV06	178
730.1040	Install Platform	03NOV06	55	30JAN07	178
730.1050	Install Lighting,Fire Det/Supprs under platform	31JAN07	160	14SEP07	522
730.1060	Install Lower Cryostat Floor	08JAN07	5	12JAN07	150
730.1070	Install Lower PF 3,4,5&6 into prelim position	09FEB07	5	15FEB07	131
730.1081	1st Field Period Assembly-Position	14MAR07	12	29MAR07	113
730.1082	1st Field Period Assembly-Weld	30MAR07	4	04APR07	113
730.1083	1st Field Period Assembly-Leak Check	05APR07	5	11APR07	113
730.1091	2nd Field Period Assembly-Position	19APR07	12	04MAY07	108
730.1092	2nd Field Period Assembly-Weld	07MAY07	4	10MAY07	108
730.1093	2nd Field Period Assembly-Leak Check	11MAY07	5	17MAY07	108
730.1101	3rd Field Period Assembly-Position	23MAY07	24	26JUN07	105
730.1102	3rd Field Period Assembly-Weld	27JUN07	4	02JUL07	105
730.1103	3rd Field Period Assembly-Leak Check	5JUL07	5	10JUL07	105
730.1130	Make Final Vacuum Pump Connections to VV	11JUL07	13	27JUL07	105
730.1139	Begin Vac Vsl Pumpdown	30JUL07	0		105
730.1140	PTP Pumpdown & leak check VV (WBS 220-025)	30JUL07	10	10AUG07	105
730.1150	Raise lower PF-3,4,5&6 coils into final position	13AUG07	3	15AUG07	105
730.1170	Install PF Solenoid into position (U/L 1&2 PF)	16AUG07	4	21AUG07	105
730.1175	Install Upper PF-3,4,5 & 6 coils	22AUG07	3	24AUG07	105
730.1180	Install Bus connections to coil sys (WBS 431-131	27AUG07	20	24SEP07	105
730.1210	Connect Cooling System (WBS 61)	13AUG07	25	17SEP07	110
730.1230	Complete Bus connections (WBS 4)	27AUG07	20	28SEP07	105
730.8074	Begin Cryostat Installation	06AUG07*	0		130
730.8075	Prep Cryostat for installation	06AUG07	10	17AUG07	130
730.8100	Cryo stat installation	25SEP07	20	22OCT07	105
730.1248	ACC Review	04SEP07*	10	15OCT07	115
730.1249	PSO Operational Readiness Assessment	16OCT07	5	22OCT07	105
730.1250	PSO Operational Readiness Assessment		0	22OCT07	105
730.8200	PTP and Cooldown	23OCT07	10	05NOV07	105
85 - Integrated Systems Testing					
920.004	Begin Start-up Testing	06NOV07	0		105
920.005	Punch list,Cmplt PTP's,Reconfig, Rm temp Hi-pot	30AUG07	37	22OCT07	115
920.010	Field Coil Testsing,FCPC test & E-Beam Mapping	06NOV07	25	12DEC07	105
920.020	Final ISTP	13DEC07	7	21DEC07	105
920.021	Operations Approval	01JAN08	3	03JAN08	105
730.9000	First Plasma		0	03JAN08	105
M-0120	CD-4		0	30MAY08*	0

Run Date 26AUG04 11:27

NCSX
CRITICAL PATHS
CD-3 Proposed Schedule Rev 3

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