

NCSX Project Meeting April 25, 2008

Background: This is a report of the Project Meeting held Friday, April 25th. The focus of this meeting is to primarily look at the next three weeks and the actions needed to ensure that the scheduled items will be met. The RLMs conduct this meeting using the three month look-ahead schedule that is sent out prior to the meeting. These minutes include:

- Summary of actions identified during the meeting;
- Safety minute briefing;
- Three week look ahead schedule; and
- Action items from previous and the current meeting

NOTE: Future meetings will be held on Wednesdays at 1:30 pm.

Meeting Minutes:

Safety Briefing – Ron Strykowski on actions during emergencies. Major messages:

- In an emergency, stay focused on the task at hand
- Focus on safety over trying to diagnose the problem
- Quit when you are tired and stay within your limits
- Relay on your training
- Don't rush or overlook hazards in small or apparently simple jobs – be constantly aware of hazards
- Don't do dumb things out of carelessness or inattentiveness

Heitzenroeder (RLM)

- Tom Brown (Jobs 8203/8205 Design Integration) - Tom needs help. Designer shortages, support for computer procurements, ProE & mechanical licenses. Both of actions below are carryover from previous meetings.
 - Hire additional designers (reqn in system) . **Chrzanowski**
 - Can ORNL bring additional help to bear? **Cole/Harris**
- Jim Chrzanowski – Mike Kalish reporting - Jobs 1302/1352 – PF coil procurement bid evaluation on schedule. Ron Strykowski needs a progress payment schedule. (**Chrzanowski**)
- Mike Cole (Jobs 1416/1421/1806/12xx?).
 - Drawings on power cables (task 1416-503C) will be transferred to Job 1601-162 (**Strykowski**)
 - Job 1416-NEW – new work: thermal analysis of MC & LN2 colling. Related question – how do VV Title III jobs and unscheduled work get added and charged? => add to WAF, albeit with no budget and will accept variances. Action: work out plan to collect charges for unplanned work that comes up and propose mechanism for collecting charges for such work to Project (**Harris**)

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- Station 3: Forecast models & drawings approved by May 6th – out for comments and due April 29th. If meet May 6th date, should not impact Station 3 work.: (**Harris/Cole**)
- Station 5 specs and drawings. Need to clarify when CSPEC and drawings actually needed (likely August vs. April time frame. Ensure assembly specs put back into schedule (**Strykowski**)
- Increase granularity of schedules in Jobs 1355, 1806, WBS 16 jobs. Increased granularity provided for Job 1901. (**Cole**)
- WBS 16 jobs interfaces need to be defined – interface meetings/peer reviews to be scheduled (**Neilson/Cole**). Stay on current course with LN2 manifolds design concept, including two-phase capability.=> need guidance. (**Heitzenroeder/Goranson**)

- Fred Dahlgren (Jobs 1353/1501/1702)
 - CS Support. Dahlgren. Need designer for PF1a interconnect bus. ORNL? ORNL (**Harris**) to respond by next week. Reschedule this work (**Strykowski**)
 - Lew will pick up some of the base structure work. May 2 FDR looks good, but some questions on additional work needed to accommodate outer support. **Brown & Dahlgren to resolve.**
 - WBS 15. Structures Dahlgren. Thermal analysis- no plan yet. Is thermal analysis needed for FDR? **Action: Phil will organize brainstorm meeting on Monday.**
 - SRDs for both Base Support Structure and Coil Support Structure revised by Fred on April 23rd –now out for signature.
 - WBS 17. Proactively get comments on drawings from affected WBS, especially Raftopoulos. CSPEC will be needed & prepared in time. **Phil**

- Bob Ellis (Job 8205) - Station 3 Dimensional Control Plan now forecast 4/30. Get these three things wrapped up end of April. Has potential to impact Station 3 work, especially acceleration to mitigate risks. **Ellis**

- Mike Kalish (Jobs 1361 & 1354):
 - No issues on TF coil schedules.
 - Trim coils. Action: **Viola and Kalish talk off line about changes in supports. Adjustability? Welding?** Allow MK ~a week's relief. Action: **Hutch follow-up with Mike.** Review deliverables for an FDR. FMEA needed. On schedule for May 6th FDR, but need to revisit procurement schedule. (**Kalish/Heitzenroeder** organized FDDR & get external reviewers)

Larry Dudek (RLM)

- Tom Brown (Job 1803/05)
 - Station 2: Wedges to ship May 3rd
 - Station 3 clearance studies moved to late May. **Heitzenroeder/Brown resolve.**

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- Station 5 on hold due to other things getting higher priority for designer support. Missed FDR April 3. *No forecast*. New envelop study needed to follow up on the port alignment issues. ORNL? **Cole and Brown resolve who will do this.**
- Diagnostic and thermocouple lead boxes on Type A coils have to be moved (**Brown/Cole**)

- Mike Viola Jobs 1810/1815).
 - Taking time for additional weld development and A2B2 shear plate design. Impacts A1B1 and A2B2. A1B1 and shear plate design on hold pending follow up on welding engineer advice. **Viola**
 - Heating and cooling hoses. We are replacing the damaged/leading hoses. However, reliability issue still a concern. FMECA in final sign-off. Brad to coordinate a review. **Goranson/Nelson**

- Brent Stratton (Job 3101) – installation of Rogowski loops scheduled to be completed by end of May. Need status of heater tape leads work – scheduled date is April 30th. (**Stratton**)

- Goranson (Job 1260) – need to define path forward for enclosing pyrogel in nomex bats. **Harris** follow up with Benson to define what needs to be done (R&D & procedures).

- Blanchard (WBS 2 Jobs) – concern about whether he can meet pumping speed requirements (**Neilson/Blanchard**)

Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	* ADJUSTED * Baseline Finsih	SCHEDULE slip (-)/ ahead (+)	Remaining Float	FY08				
								M	APR	MAY	JUN	J
Phil Heitzenroeder												
Brown												
Job: 8203 - Design Integration-BROWN												
8203FY08-1	Service routing within cryostat & TC	46*	29FEB08*	02MAY08	02MAY08	0	1,625					
8203FY08-2	Facility models update&integration	43	02APR08*	02JUN08	02JUN08	0	1,605					
Chrzanowski												
Job: 1302 - PF Design -CHRZANOWSKI												
1302-275	Resolve FDR Chits	51	22FEB08*	02MAY08	02MAY08	0	1,255					
Job: 1352 - PF Coil Procurement-CHRZANOWSKI												
PF Coil Fabrication												
141-038.1	PF Conductor Delivery	105*	21FEB08A	18JUL08	30MAY08	-34	355					
141-039	Bid & Award Materials	21	03MAR08*	31MAR08	31MAR08	0	1,581					
141-040	PF Materials Awarded	0		31MAR08	31MAR08	0	1,581					
1352-100	Materials Delivery PF 4,5,6	68	01APR08	07JUL08	07JUL08	0	1,581					
141-035	Bid & Award PF Coil Fabrication	60*	07MAR08*	30MAY08	30MAY08	0	303					
141-035A	PF Coil Proposals Due	0		02APR08*	02APR08*	0	303					
141-035B	Proposal evaluation complete	0		16APR08*	16APR08*	0	303					
141-035C	SPEB Evaluation complete	0		18APR08*	18APR08*	0	303					
141-035E	DOE Approval	0		16MAY08*	16MAY08*	0	303					
Cole												
Job: 1416 - Mod Coil Type AB Fnl Dsn-WILLIAMSON												
Top level assy models/drawings												
1416-502	Layout of flux loop terminations. (move box)	43*	31JAN08	31MAR08	31MAR08	0	1,649					
1416-503C	Complete drawings of power cable connections	43*	31JAN08*	31MAR08	31MAR08	0	1,649					
Analysis and closeout documentation												
1416-601	Prepare EM and structural analysis of leads	86*	02JAN08A	30APR08	30APR08	0	1,627					
1416-605	Prepare Type-ABC closeout documentation	15	09APR08*	29APR08	29APR08	0	1,613					
1416-606	Resolve documentation comments	15	30APR08	20MAY08	20MAY08	0	1,613					
1416-650	Prepare cooling analysis of lead area	40	01APR08*	27MAY08	27MAY08	0	1,609					
1416-651	Prepare cooling analysis coefficient for cryosta	40	01APR08*	27MAY08	27MAY08	0	1,609					
ECN Modifications												
1416-801	ECN Mods-Resize vertical port boot	40	01APR08*	27MAY08	27MAY08	0	1,609					
1416-802	ECN Mods-Revise Type B cooling lines	40	01APR08*	27MAY08	27MAY08	0	1,609					
1416-803	ECN Mods-Issue DXF shim files for fab	40	01APR08*	27MAY08	27MAY08	0	1,609					
1416-804	ECN Mods-Relocate box on Type A	40	01APR08*	27MAY08	27MAY08	0	1,609					
1416-805	ECN Mods-Add TC's at bottom of 101,102,103 dwgs	40	01APR08*	27MAY08	27MAY08	0	1,609					
1416-806	ECN Mods-Revise dwg 123-151	40	01APR08*	27MAY08	27MAY08	0	1,609					
Job: 1421 - Mod Coil Interface Design-WILLIAMSON												
Inboard Interface-AB/BC/AA												
1421-3155	Resolve C-C shim FDR comments	20	01APR08*	28APR08	28APR08	0	1,629					
Job: 1806 - FP Assembly specs and drawings-COLE												
Station 3-Modular Coil to VVSA Assembly												
1803-301	Station 3 Assembly Specification	207*	02JUL07A	30APR08	30APR08	0	141					
1803-305	Station 3 Assembly Drawings	207*	02JUL07A	30APR08	30APR08	0	141					

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								M	APR	MAY	JUN	J
Station 5-Final Field Period Assembly												
1803-505	Station 5 Assembly Drawings	152*	03SEP07A	15APR08		0	274					
1803-509	Field period Assy Dwgs	132*	01FEB08*	06AUG08	06AUG08	0	195					
1803-611	Detail dwgs ports	90	01APR08*	06AUG08	06AUG08	0	195					
6.00-Final Machine Assembly												
1803-601	Station 6 Assembly Specification	120	15APR08*	02OCT08	02OCT08	0	377					
1803-605	Station 6 Assembly Drawings	120	15APR08*	02OCT08	02OCT08	0	377					
1803-613	Detail dwgs-man access port	120	15APR08*	02OCT08	02OCT08	0	377					
Job: 1901 - Stellarator Core Mngtt&Integr-COLE												
193 - Risk Mitigation Tasks												
RISK-43	Bolt preload could relax with time.	104*	03MAR08*	28JUL08	28JUL08	0	450					
RISK-696	consider a bringing all 3 120 degree field perio	270*	03MAR08*	31MAR09	31MAR09	0	1,400					
RISK-749	Does design meet GRD requirements for failure re	109*	25FEB08*	28JUL08	28JUL08	0	450					
RISK-752	Pucks held by Nomex felt-demonstrate feasibility	44*	06MAY08*	07JUL08	07JUL08	0	465					
RISK-753	Plan to minimize no. of loose components	98*	25FEB08*	11JUL08	11JUL08	0	461					
RISK-754	Plans for bushing removal demonstrated via mock-	98*	25FEB08*	11JUL08	11JUL08	0	461					
RISK-755	Relax fit-up tolerances on remotely handled bush	98*	25FEB08*	11JUL08	11JUL08	0	461					
Dahlgren												
Job: 1702 - Base Support Struct Design-DAHLGREN												
1702-520	Final design. Assy dwgs, fab dwgs, BOMs,specs/SO	66*	01FEB08A	02MAY08	30APR08	-2	241					
1702-525M	Base Support Structure FDR	0		02MAY08	30APR08	-2	241					
1702-530	Resolve chits, issue dwgs for fab,Issue requisit	10	05MAY08	16MAY08	14MAY08	-2	241					
Job: 1501 - Coil Structures Design-DAHLGREN												
1501-533	Detail CAD Drawings,BOM	260*	01JUN07A	16JUN08	16JUN08	0	212					
1501-533F	Integrated Stress Analysis	176*	01OCT07A	16JUN08	16JUN08	0	222					
1501-536	Issue dwgs for review	0		01APR08*	01APR08*	0	245					
1501-535	Develop Interfaces with cryostat	0		01MAY08*	01MAY08*	0	243					
1501-549	Update C.S.Support Attacgment Design	6	19MAY08	27MAY08	27MAY08	0	212					
Dudek												
Job: 1429 - MC Interface R&D-DUDEK												
Outboard Interface-Friction												
1429-3030	Cryo Friction test	10	28APR08*	09MAY08	11APR08	-20	1,620					
Ellis												
Job: 8205 - Dimensional Control Coordin-ELLIS												
METDCP-3	Dimensional control plans for station 3	65*	31JAN08	30APR08	30APR08	0	141					
Goranson												
Job: 1601 - Coil Services Design-GORANSON												
161 - LN2 Distribution												
191-001	Title I design WBS 161 LN2 manifolds&piping	166*	01OCT07A	02JUN08	02JUN08	0	231					
162 - Electrical Leads												
132-001	Title I design WBS 162 Coil leads	180*	03DEC07A	21AUG08	21AUG08	0	241					

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								M	APR	MAY	JUN	J
Kalish												
Job: 1361 - TF Fabrication-KALISH												
TF Fabrication Contract												
1361C-112	Fab, Test & Deliver Coil #12	1	25APR08*	25APR08	30MAY08	24	520					
1361C-113	Fab, Test & Deliver Coil #13	1	19MAY08*	19MAY08	23JUN08	24	530					
Job: 1354 - Trim Coil Design & Procurement-KALISH												
Trim Coil **Updated estimate**												
TRIM-170	Complete Trim Coil Detailed Drawings	30*	25MAR08A	05MAY08	07APR08	-20	246					
TRIM-200	Assy drawings & parts list	5	06MAY08	12MAY08	21APR08	-15	247					
TRIM-210	Prepare for FDR	5	29APR08	05MAY08	28APR08	-5	246					
TRIM-220	Trim Coil + Structure FDR	1	06MAY08	06MAY08	29APR08	-5	246					
TRIM-221	** Trim Coil + Structure FDR **	0		06MAY08	29APR08	-5	246					
TRIM-230	Resolve Chits	5	07MAY08	13MAY08	06MAY08	-5	246					
TRIM-150	Prepare Trim Coil Procurement Spec.	19*	25MAR08*	18APR08	07APR08	-9	252					
TRIM-160	Approve Procurement Spec	5	21APR08	25APR08	14APR08	-9	252					
TRIM-240	Trim Coil Procurement	25	14MAY08	18JUN08	11JUN08	-5	246					
Raftopolous												
Job: 1701 - Cryostat Design-RAFTOPOLOUS												
1701-099	Cryostat- Tabletop Prototype	28	30APR08*	09JUN08	09JUN08	0	334					
1701-100	Cryostat- Conceptual Design	15	19MAY08*	09JUN08	09JUN08	0	334					
Job: 6201 - Cryogenic Syst-RAFTOPOLOUS												
621 - LN2 Supply & LN2 coil cooling supply												
62122-300	Conceptual Design	48	01MAY08*	09JUL08	09JUL08	0	248					
623 - GN2 Cryostat Cooling System												
623-099	GN2 Cryostat Cooling Sys Conceptual design	48	01MAY08*	09JUL08	09JUL08	0	254					

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								M	APR	MAY	JUN	J
Larry Dudek												
Brown												
Job: 1803/1805- FPA Tooling/Constr-BROWNDUDEK												
Station 3-Modular Coil to VVSA Assembly												
1803S3-3	Station 3 alignment FDR and clean-up activities	43*	21FEB08*	21APR08	22APR08		1	208				
1803S3-3M	Station 3 alignment FDR	0		21APR08	22APR08		1	208				
1803S3-4	Generate laser screen trace drawings (3 periods)	15	31JAN08	20FEB08	20FEB08		0	324				
1803S3-5	Analyze single point lift (proof test of support	45*	18FEB08*	18APR08	18APR08		0	223				
1803S3-6	Station 3 simulation detail model	21*	01MAY08*	30MAY08	30MAY08		0	194				
1803S3-7	VVMC clearance study (for VVSA1, 2 and 3)	11	14APR08*	28APR08	28APR08		0	198				
1803S3-8	Station 3 deflection FEA study	19*	01MAY08*	28MAY08	29MAY08		1	196				
1805S3-2	Left side base grout plates	65	31JAN08	30APR08	30APR08		0	201				
1805S3-3	MCHP lift fixture frame weldment	65	31JAN08	30APR08	30APR08		0	201				
1805S3-4	Lift fixture mounting bracket weldments	65	31JAN08	30APR08	30APR08		0	201				
1805S3-5	Reworked laser frame structure	65	31JAN08	30APR08	30APR08		0	201				
1805S3-6	Right inboard laser frame structure	65	31JAN08	30APR08	30APR08		0	201				
1805S3-7	Left inboard laser frame structure	65	31JAN08	30APR08	30APR08		0	201				
1805S3-8	Laser screen lexan sheet (1/8 x 48" x 96")	65	31JAN08	30APR08	30APR08		0	201				
1805S3-9	Estimate for Station 2 type alignment system	65	31JAN08	30APR08	30APR08		0	201				
1805S3-100	Hardware & Misc items	65	31JAN08	30APR08	30APR08		0	201				
1805S3-110	Misc assembly Cost	65	31JAN08	30APR08	30APR08		0	201				
1805S3-201	MC base support system (left / rt side)	65	31JAN08	30APR08	30APR08		0	201				
1805S3-202	Hilman roller - 8-OT plus R & U guides	65	31JAN08	30APR08	30APR08		0	201				
1805S3-203	AirLoc Wedgmount Precision Levelers	65	31JAN08	30APR08	30APR08		0	201				
1805S3-204	Lift fixture mounting bracket weldments	65	31JAN08	30APR08	30APR08		0	201				
1805S3-205	Estimate for Station 2 type alignment system	65	31JAN08	30APR08	30APR08		0	201				
1805S3-206	Hardware & Misc items	65	31JAN08	30APR08	30APR08		0	201				
Station 5-Final Field Period Assembly												
1803S3-2	Updated Stations Station 5 sequence plan	43	01APR08*	30MAY08	30MAY08		0	200				
1803S5-4	Station 5 (and 3) lift fixture structures and li	10	01APR08*	14APR08	14APR08		0	1,639				
1803S5-7	VV work platforms	17	01MAY08*	23MAY08	23MAY08		0	332				
1803S5-8	Station 5 support structural analysis	10	14APR08*	25APR08	25APR08		0	352				
1803S5-10	Station 5 FDR - Base support	22	24APR08*	23MAY08	23MAY08		0	204				
1803S5-12	Station 5 FDR - Lift fixtures, port tooling and	10	16MAY08*	30MAY08	30MAY08		0	323				
6.00-Final Machine Assembly												
1803S6-1	Stage 6 FP support and roller system	39*	05MAY08*	27JUN08	27JUN08		0	470				
1803S6-2	Spool piece support and roller system	53*	19MAY08*	01AUG08	01AUG08		0	446				
Chrzanowski												
Job: 1408 - MC Winding Supplies-CHRZANOWSKI												
1408-4.1	Procure Strain Gages	55	17MAR08*	02JUN08	02JUN08		0	170				
Job: 1451 - Mod Coil Winding-CHRZANOWSKI												
Station 3-Casting Prep & Winding												
P1-161	Wind coil A6	42*	28MAR08A	27MAY08	27MAY08		0	93				
Station 4-Winding, Instl Chill Plates,Tubing,Bag												
P3-170	Instl Chill Plates,Tubing,Bag B6	42	31JAN08A	30APR08	02JUN08		22	171				

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								M	APR	MAY	JUN	J
Station 5-VPI												
P3-171V	VPI (Station 5) B6	19	01MAY08	28MAY08	27JUN08	22	171					
Station 1 Post VPI												
P2-051C	Final Clamps & Warm Test (Station1) C6	57	31JAN08	18APR08	16APR08	-2	191					
P3-171C	Final Clamps & Warm Test (Station1) B5	14	21APR08	08MAY08	08MAY08	0	195					
Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI												
Punchlist Tech shop/RESA												
PLTS-C5	Grinding & Drill Holes -C5	136*	01OCT07A	18APR08	17MAR08	-24	1,635					
PLTS-B5	Grinding -B5	5	09MAY08	15MAY08	15MAY08	0	195					
PLTS-A6	Grinding -A6	5	01OCT07A	19SEP08	19SEP08	0	93					
PLTS-C6	Grinding & Drill Holes -C6	20	21APR08	16MAY08	14MAY08	-2	191					
PLTS-GRIND	Coil to coil fitup modifications (grinding/cp)	165*	01DEC07A	31JUL08	31JUL08	0	1,563					
Punchlist- Coil Technicians												
PLCT-A3	Insul,measure,TC, other punch list-A3	17	05JUL07A	14FEB08	14FEB08	0	184					
PLCT-A4	Insul,measure,TC, other punch list-A4	17	06JUL07A	05MAR08	05MAR08	0	184					
PLCT-B3	Insul,measure,TC, other punch list-B3	14	01OCT07A	20MAR08	20MAR08	0	184					
PLCT-C3	Insul,measure,TC, other punch list-C3	18	01OCT07A	07APR08	07APR08	0	184					
PLCT-B4	Insul,measure,TC, other punch list-B4	14	01OCT07A	21APR08	21APR08	0	184					
PLCT-C4	Insul,measure,TC, other punch list-C4	14	25JUL07A	02MAY08	02MAY08	0	184					
PLCT-A5	Insul,measure,TC, other punch list-A5	14	30JUL07A	12MAY08	12MAY08	0	184					
PLCT-A6	Insul,measure,TC,SG other punch list-A6	14	01OCT07A	09OCT08	09OCT08	0	93					
PLCT-B5	Insul,measure,TC, other punch list-B5	14	01OCT07A	29OCT08	29OCT08	0	93					
PLCT-C5	Insul,measure,TC, other punch list-C5	18	01OCT07A	08NOV08	08NOV08	0	93					
PLCT-B6	Insul,measure,TC,SG other punch list-B6	14	01OCT07A	17JUL08	18AUG08	22	171					
PLCT-C6	Insul,measure,TC,SG other punch list-C6	14	01OCT07A	06JUN08	04JUN08	-2	191					
Dudek												
Job: 1431 - Mod. Coil Interface Hardware-DUDEK												
Bladders												
1421-3025	Deliver remaining bladders	19*	01APR08A	25APR08	18APR08	-5	109					
1421-3028	Bladders available	0		25APR08	18APR08	-5	109					
Pucks												
1429-3110	PPPL cut and grind to thickness	290*	04FEB08	31MAR09	31MAR09	0	17					
Shims-Outboard												
1429-3066	Outboard Shims	130	03MAR08*	03SEP08	03SEP08	0	79					
Shims-Inboard												
1429-3062X	Inboard Shims	208	03MAR08*	02JAN09	02JAN09	0	74					
Studs,Washers,Nuts												
1421-3070	Order studs & washers for c-c joint	15	12MAY08*	02JUN08	02JUN08	0	534					
Stratton												
Job: 3101 - Magnetic Diagnostics-STRATTON												
Rogowski Coils												
3101-352	Assy & detail dgws	46	31JAN08	03APR08	03APR08	0	431					
3101-353	Prep installation procedure	31	04APR08	16MAY08	16MAY08	0	431					
3101-354	Purchase materials	62	31JAN08	25APR08	25APR08	0	446					
3101-370	Check elect characteristics of cables	503*	16APR08*	23APR10	23APR10	0	1,135					
3101-351	Wind coils	13*	31MAR08*	16APR08	16APR08	0	453					

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								M	APR	MAY	JUN	J	
3101-357	Fab coil clamps & ends	12*	15MAY08*	02JUN08	02JUN08	0	421						
3101-359	Install Rogowski coils (budgeted in job 1815)	21*	02APR08*	30APR08	30APR08	0	255						
TF and PF Co-wound Loops													
3101-425	Design Protective boxes for PF	100*	01NOV07A	01APR08	01APR08	0	1,558						
3101-426	Purchase SS Sheet	10	12NOV07A	18JUN08	18JUN08	0	1,585						
3101-452	Form Protective boxes	10	12NOV07A	23JUN08	23JUN08	0	1,585						
3101-454	Weld end plates of PF protective boxes	10	09NOV07A	30JUN08	30JUN08	0	1,585						
3101-427	Purchase Heat Shrink tubing	15	12NOV07A	19MAY08	19MAY08	0	1,495						
3101-428	Purchase add'l CoAxial cable	46	01MAY08*	07JUL08	07JUL08	0	1,462						
3101-458	FabTF,PF & solenoid co-wound loops	186	02JUL07A	15AUG08	15AUG08	0	1,462						
T/C and Heater Tape Leads													
1204-140.1	Peer Review T/C and Heater Tape Leads	12	15APR08*	30APR08	30APR08	0	248						
1204-141	Drawings Signed T/C and Heater Tape Leads	0		30APR08	30APR08	0	248						
1204-144	Check elect characteristics T/C & heater port 12	65	01MAY08	01AUG08	01AUG08	0	1,562						
Voltage Loops & Protective Boxes													
3101-802	Fab 3 protective Boxes (Use Existing Box)	10	31JAN08	13FEB08	30MAY08	76	1,682						
3101-806	Check elect characteristics of coax	86*	31JAN08	30MAY08	13JUN08	10	1,606						
Viola													
Job: 1802 - FP Assy Oversight&Support-VIOLA													
Station 3 procedures,JHA,ACC,Training,Prep													
R1802-307	Procedures written & approved	10	01MAY08	14MAY08	14MAY08	0	141						
R1802-309	JHA completed	6	15MAY08	22MAY08	22MAY08	0	141						
Job: 1810 - Field Period AssyStation 1,2,3 VIOLA													
Station 1-VV Prep (hard surface components) FP#1													
R1810-1108	Perform final acceptance testing (H/C flow test)	15	26MAR08*	15APR08	15APR08	0	284						
R1810-1110	Install Final Internal&Ext monuments & meas	4	01MAY08	03MAY08	03MAY08	0	358						
R1810-1114	Install heater tape on all removable ports	25	01MAY08*	05JUN08	06MAY08	-21	248						
R1810-1100	Design & Build heater& thermo termination box	41	03MAR08*	01MAY08	01MAY08	0	254						
R1810-1101	heater& thermo termination & verification	18	02MAY08	28MAY08	28MAY08	0	254						
Station 1- VV Prep (hrd surf cmpntsFP#2)													
R1810-1208	Perform final acceptance testing (H/C flow test)	32	16APR08	30MAY08	30MAY08	0	341						
Setup													
R1810-2045	2 Electric Torque wrench	86*	31JAN08*	30MAY08	30MAY08	0	1,606						
R1810-2080	3rd laser tracker	34*	01APR08A	16MAY08	28MAY08	7	1,615						
R1810-2027	Install THIRD Holding 20 deg fixture	33*	01APR08A	15MAY08	15MAY08	0	1,616						
R1810-2084	Design and purchase 3 additional wedge supports	87*	31JAN08A	02JUN08	02JUN08	0	1,605						
R1810-2024	Rework wedges f/combed assemblies& coil handl	97*	31JAN08	16JUN08	16JUN08	0	1,595						
R1810-2026	Setup up satellite shop in Mock-up area	15	01MAY08	21MAY08	22MAY08	1	1,612						
R1810-2085	Trak 3 axis mill	65	31JAN08*	30APR08	30APR08	0	1,612						
R1810-2086	Trak 3 axis mill collet set	65	31JAN08*	30APR08	30APR08	0	1,627						
R1810-2087	Coordinate measuring machine	86*	31JAN08*	30MAY08	30MAY08	0	1,606						
R1810-2089	Tools, cabinets & storage shelving	669	31JAN08*	01OCT10	26AUG10	-25	1,023						
R1810-2002	Purchase grinding machine	86*	31JAN08	30MAY08	30MAY08	0	1,606						
S20-4.02	Perform metrology set-up;purchase 6 pillars	86*	31JAN08*	30MAY08	30MAY08	0	1,606						
Pre-Measuring and fitup checks													
Pre measurement of MCHP A2,B2,C2 flanges													
2-2-2.99	Drill Stycast fill holes	3	01MAY08*	05MAY08	29FEB08	-46	127						
S22-3.02	Compress shims sort by thickness	64	03APR08	03JUL08	03JUL08	0	94						

Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	* ADJUSTED * Baseline Finsih	SCHEDULE slip (-)/ ahead (+)	Remaining Float	FY08						
								M	APR	MAY	JUN	J		
Pre measurement of MCHP A3,B3,C3 flanges														
2-3-2.99	Drill Stycast fill holes	3	22MAY08	27MAY08	27MAY08	0	65							
S23-3.02	Compress shims sort by thickness	20	02MAY08	30MAY08	30MAY08	0	65							
S23-4.01	Install MCHP fixtures & metrology equipt	6	19MAY08*	27MAY08	27MAY08	0	65							
Pre measurement of MCHP A4,B4,C4 flanges														
S24-1.01	Verify mating MC's of MCHP will come together	4	16APR08*	21APR08	21APR08	0	174							
S24-2.08	Measure C4 "A" flange	8	22APR08*	01MAY08	01MAY08	0	174							
Station 2 MC subassy A1B1C1														
A-B MC Assembly														
2-1-6.33	Weld A / B nose region solenoid side	3	24APR08*	28APR08	28APR08	0	25							
2-1-6.34	Measure positions of all monuments	1	29APR08	29APR08	29APR08	0	25							
2-1-6.35	Review with Back Office. INSTALL wing supports	10	30APR08	13MAY08	13MAY08	0	25							
2-1-6.36	Identify, a set of monuments moved less than .0	0	14MAY08	13MAY08	13MAY08	0	25							
2-1-6.37	Fill all loose bushings with Stycast 2850FT	6	14MAY08	21MAY08	21MAY08	0	25							
2-1-6.38	Scan "B" flange (datum "E") of "B" coil,	1	21MAY08	21MAY08	21MAY08	0	25							
2-1-6.39	define all B/C flange shim thickness.	2	20MAY08	21MAY08	21MAY08	0	25							
AB-C MC Assembly														
2-1-7.01	lift (A-B) coil, along with fixture, onto anot	3	22MAY08	27MAY08	27MAY08	0	25							
Station 2 MC subassy A2B2C2														
A-B MC Assembly														
2-2-6.15	Recheck part alignment of "A" coil	3	01MAY08*	05MAY08	05MAY08	0	94							
2-2-6.151	Weld all Type-A flex shims plasma side	2	06MAY08	07MAY08	07MAY08	0	94							
2-2-6.16	recheck alignment	1	08MAY08	08MAY08	08MAY08	0	94							
2-2-6.17	Back office assessment of part after weld	2	09MAY08	12MAY08	12MAY08	0	94							
2-2-6.18	Measure "B" fiducials estab coord sys	1	09MAY08	09MAY08	09MAY08	0	95							
2-2-6.19	Weld all Type-B (A-flange) flex shims plasma sid	2	13MAY08	14MAY08	14MAY08	0	94							
2-2-6.20	Recheck part metrology acceptance criterion.	1	15MAY08	15MAY08	15MAY08	0	94							
2-2-6.21	Back office assessment of part after weld	2	16MAY08	19MAY08	19MAY08	0	94							
2-2-6.22	Remove alumina shims as necessary	0	16MAY08	15MAY08	15MAY08	0	95							
2-2-6.04	Place unfilled shim bags in wing areas	1	16MAY08	16MAY08	16MAY08	0	95							
2-2-6.23	Lower mating "B" coil into position.	1	20MAY08	20MAY08	20MAY08	0	94							
2-2-6.231	Perform alignment "B" coil tooling balls	1	21MAY08	21MAY08	21MAY08	0	94							
2-2-6.24	"B" coil, position coil accurately in x, y, &	1	22MAY08	22MAY08	22MAY08	0	94							
Station 3 Setup/Preparations/General														
Misc Prep activities														
R1810-3109	Remove winding stations & enclosures	21	12MAY08*	10JUN08	09JUN08	-1	187							
R1810-3107	Test out station 3 equipment and procedures	30	21APR08*	02JUN08	02JUN08	0	193							
Station 3-Assemble Mod Coils and VVSA-FP#1														
Set-up and Prep														
3-1-1.01	transfer CAD models	7	19MAY08*	28MAY08	28MAY08	0	196							
3-1-1.03	Install floor mounted tracks and the VV base sup	5	01MAY08*	07MAY08	07MAY08	0	201							

Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	* ADJUSTED * Baseline Finsih	SCHEDULE slip (-)/ ahead (+)	Remaining Float	FY08					
								M	APR	MAY	JUN	J	
Al vonHalle													
Ramakrishnan													
Job: 4301 - DC Systems-RAMAKRISHNAN													
431 - C-Site DC Systems													
431-261	Redo power loop design	355	01MAY08*	30SEP09	30SEP09	0	324						
Job: 4401 - Control & Protection-RAMAKRISHNAN													
441 - Electrical Interlocks													
441-100	PLC Specification	160	01MAY08*	17DEC08	17DEC08	0	311						

Weekly Meeting Actions Tracking Log Open Action Items

Meeting Date	Job	Action	Responsibility	Date of Status	Status
4/25/2008					
	1416	Add new task for thermal analysis of MC & LN2 cooling	Harris	4/25/2008	Will add to WAF w/o budget => accept variances. ORNL to suggest mechanism for collection charges for unplanned work.
	2201	Resolve pumping speed question	Blanchard/Neilson	4/25/2008	Hutch and Bill to discuss.
	1260	Establish plan for resolving nomex batting question	Harris	4/25/2008	Provide plan and document in a WAF
	14/18/19	Develop plan to move diagnostic & thermocouple lead boxes on Type A coils	Brown/Cole	4/25/2008	
4/18/2008					
	1355	Conventional Coils I&C	Cole	4/25/2008	Identify progress milestones
	1260	Define path forward for enclosing pyrogel in nomex bats	Harris	4/25/2008	Work with Benson to define scope of R&D needed and procedures.
4/11/2008					
	1302/1352	Provide progress payment schedule to Strykowski	Chrzanowski	4/25/2008	
	1806	Station 3 drawings and CSPEC	Harris/Cole	4/25/2008	Forecast is now May 6th - need by them to preclude impacting Station 3 schedule and potential acceleration of the schedule. Out for comment - comments due 4/29. Goal is to issue by 5/6.
	8203	Station 5 drawings out for review.	Brown	4/25/2008	Being reviewed
4/4/2008					
	1501/1551 1702/1752	SRDs for both Coil Support Structure and Base Support Structure out for comment	Impacting WBS Managers	4/23/2008	Revised 4/23 - now both out for signature on 4/23 - Still not fully signed off.
	1354	Update of SRD and resolution of PDR CHITs	Kalish	4/25/2008	SRD signed & posted 4/15 - Still working on CHITs
	1810	Resolve heating/cooling leak issues - assess issue, causes, and mitigation plans	Viola Harris/Cole/Goranson	4/25/2008	VVSA #1 and #3 have had their leaking hoses replaced with the spares (5 of 13). Need a welder to weld the tubes on. vessel hose check - switched to 10E-5 checks with leak detector VVSA #1 has 1 leak (floods leak detector) at the weld ends; VVSA #2 has 8 leaks - will replace on 4/16; VVSA #3 had 4 leaks (one under a clamp). Immediate assembly issue is closed (hoses being replaced) Reliability issue: VV FEMEC (July 2006) now in sign-off. Nelson to organize review and followup.

Weekly Meeting Actions Tracking Log
Open Action Items

3/19/2008					
	1806 1355 WBS 16	Need progress milestones	Cole	4/25/2008	Identify progress milestones
	1702	Base Support Dwgs comments overdue	Heitzenroeder	4/25/2008	Need comments - followup w/ reviewers, especially Raftopoulos. Cole comments still outstanding. Action: Cole