

NCSX Project Meeting April 11, 2008

Background: This is a report of the Project Meeting held Friday, April 18th. 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

Meeting Minutes:

Safety Briefing –Al vonHalle(copy of presentation attached) on Job Hazard Analyses. Major messages:

- Consider “what could go wrong” when preparing JHA
- A good JHA should be a “living document” that evolves in response to developments and new understanding in the field.

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).
 - Station. 3: Forecast models & drawings approved by Apr. 30. (Schedule was March 31). Has potential to impact Station 3 work, especially acceleration to mitigate risks.: **Harris/Cole**
 - Station 5 specs and drawings. Drawings due April 15, Specs June 6. Forecast when? Not ready for comment cycle. Need updated forecast and progress milestones for Station 5 specs & drawings. **Harris/Cole**
 - Increase granularity of schedules in Jobs 1355 & 1806. Same as previous action item. **Cole**
- Fred Dahlgren (Jobs 1353/1501/1702)
 - CS Support. Dahlgren. Need designer for PF1a interconnect bus. ORNL? ORNL (**Harris**) to respond by next week. Probably need to reschedule this work (**Strykowski**)

NCSX Project Meeting

April 11, 2008

- 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.** Needs Joe back to finish details. Sometime in the next few weeks is OK.
- 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 still did not get issued. Was due March 31. Now forecast 4/30. This is slipping. 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.

Larry Dudek (RLM)

- Tom Brown (Job 1803/05)
 - Station 2: Wedges needed soon. **Viola follow up with procurement**
 - Station 3 clearance studies moved to late May. **Heitzenroeder/Brown resolve.**
 - 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.**
 - Station 5 - Loss of designer impacting this. Tom taking the brunt of it. **Chrzanowski get replacement.**

- Mike Viola (Jobs 1810/1815)
 - Delayed Station 3 procedures a month. Need dimensional control plan and C-spec, and Mike's drawings. All forecast for April 30. MV says it doesn't impact anything, but need follow-up **Ellis, Cole.**
 - 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 not signed (sent out for signature on 4/21). Brad to coordinate a review. **Goranson/Nelson**

NCSX Project Meeting

April 11, 2008

- 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).

Job Hazard Analysis (JHA)

PPPL Procedure ESH-004 provides an important tool to help identify existing and potential workplace hazards, and to find ways to control these hazards.

Most (if not all) of the worker injuries experienced at PPPL over the past years were arguably preventable with a thorough analysis of the possible hazards.

Per ESH-004, A JHA should be performed for any job with potential hazards, when new hazards are introduced into an existing job, or when line supervision or workers think a JHA (or JHA update) would be useful

Job Hazard Analysis (JHA)

The need for safety controls/equipment such as LO/TO, Confined Space Permits, PPE, Flame Permits, etc should be addressed in a JHA no matter how minor the task.

In the upcoming NCSX Work Permit System, JHA's will be required for all test cell work requiring tools.

The JHA should not be thought of as a permit to perform work, but rather a tool to help identify and control hazards.

As such, the real value of the JHA is in the review with staff performing the work. Mark-ups and updating of the JHA in the field at the beginning and during a job should be encouraged.

Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	Lehman Baseline Finsih	Schedule slip (-)/ ahead (+)	Remaining Float	FY08												
								APR	MAY	JUN	JUL									
								4	21	28	5	12	19	26	2	9	16	23	30	7
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													
141-035D	PPPL Receive PF conductor	0		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													
Cole																				
Job: 1355 - WBS 13 I&C Proc and Coil Assy-COLE																				
TF/PF Local I&C																				
1355-103	Prepare Installation Procedures	20	30JUL08	26AUG08	22AUG08	-2	205													
1355-105	TF/PF Local I&C - FDR Prep	5	04SEP08	10SEP08	29AUG08	-7	200													
1355-107	Prep req,bid,award T/C and wire	20	25SEP08	22OCT08	29SEP08	-17	200													
1355-109	Deliver of T/C and wire	40	23OCT08	19DEC08	24NOV08	-17	200													
1355-111	Installation on PF4,5,6 Coils upon delivery	425*	31JAN08	07OCT09	07OCT09	0	461													
1355-112	Installation on TF Coils upon delivery	45	22DEC08*	03MAR09	06FEB09	-17	200													
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		0	1,649													
1416-503C	Complete drawings of power cable connections	43*	31JAN08*	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		0	1,609													
1416-651	Prepare cooling analysis coefficient for cryosta	40	01APR08*	27MAY08		0	1,609													
ECN Modifications																				
1416-801	ECN Mods-Resize vertical port boot	40	01APR08*	27MAY08		0	1,609													
1416-802	ECN Mods-Revise Type B cooling lines	40	01APR08*	27MAY08		0	1,609													
1416-803	ECN Mods-Issue DXF shim files for fab	40	01APR08*	27MAY08		0	1,609													
1416-804	ECN Mods-Relocate box on Type A	40	01APR08*	27MAY08		0	1,609													
1416-805	ECN Mods-Add TC's at bottom of 101,102,103	40	01APR08*	27MAY08		0	1,609													
1416-806	ECN Mods-Revise dwg 123-151	40	01APR08*	27MAY08		0	1,609													

Completed tasks omitted

RBS8

NCSX Project
3 week look-ahead

Sheet 1 of 7
17APR08 15:32

SORTED BY RLM AND JOB MANAGER

Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	Lehman Baseline Finsih	SCHEDULE slip (-)/ ahead (+)	Remaining Float	FY08						
								APR	MAY	JUN	JUL			
								4,21	28,5	12,19	26,2	9,16	23,30	7
Job: 1421 - Mod Coil Interface Design-WILLIAMSON														
Inboard Interface-AB/BC/AA														
1421-3155	Resolve C-C shim FDR comments	20	01APR08*	28APR08		0	1,629							
Job: 1806 - FP Assembly specs and drawings-COLE														
Station 2-Modular Coil Sub- Assembly														
1803-201	Station 2 Assembly Specification	164*	01JUL07A	29FEB08	29FEB08	0	61							
Station 3-Modular Coil to VVSA Assembly														
1803-301	Station 3 Assembly Specification	207*	02JUL07A	30APR08	31MAR08	-22	141							
1803-305	Station 3 Assembly Drawings	207*	02JUL07A	30APR08	31MAR08	-22	141							
Station 5-Final Field Period Assembly														
1803-501	Station 5 Assembly Specification	26*	01MAY08*	06JUN08	06JUN08	0	237							
1803-505	Station 5 Assembly Drawings	152*	03SEP07A	15APR08	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							
Dahlgren														
Job: 1353 - CS Structure Procurement-PERRY														
CS Support Structure														
1353-001	Design PF1a upper to lower interconnect bus	12	15APR08*	30APR08	30APR08	0	664							
1353-002	Engr & analysis of bus	14	01MAY08	20MAY08	20MAY08	0	664							
Job: 1702 - Base Support Struct Design-DAHLGREN														
1702-520	Final design. Assy dwgs, fab dwgs,	64*	01FEB08A	30APR08	30APR08	0	147							
1702-525M	Base Support Structure FDR	0		30APR08	30APR08	0	147							
1702-530	Resolve chits, issue dwgs for fab,Issue requisit	10	01MAY08	14MAY08	14MAY08	0	147							
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							
Dudek														
Job: 1429 - MC Interface R&D-DUDEK														
Outboard Interface-Friction														
1429-3030	Cryo Friction test	30	03MAR08*	11APR08	11APR08	0	1,640							
Ellis														
Job: 8205 - Dimensional Control Coordin-ELLIS														
METDCP-3	Dimensional control plans for station 3	65*	31JAN08	30APR08	31MAR08	-22	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							

Completed tasks omitted

RBS8

NCSX Project
3 week look-ahead

Sheet 2 of 7
17APR08 15:32

SORTED BY RLM AND JOB MANAGER

Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	Lehman Baseline Finsih	Schedule slip (-)/ ahead (+)	Remaining Float	FY08												
								APR	MAY	JUN	JUL									
162 - Electrical Leads								4	21	28	5	12	19	26	2	9	16	23	30	7
132-001	Title I design WBS 162 Coil leads	180*	03DEC07A	21AUG08	21AUG08	0	199													
Kalish																				
Job: 1361 - TF Fabrication-KALISH																				
TF Fabrication Contract																				
1361C-111	Fab, Test & Deliver Coil #11	1	31MAR08*	31MAR08	07MAY08	27	523													
1361C-112	Fab, Test & Deliver Coil #12	1	23APR08*	23APR08	30MAY08	26	522													
Job: 1354 - Trim Coil Design &Procurement-KALISH																				
Trim Coil **Updated estimate**																				
TRIM-170	Complete Trim Coil Detailed Drawings	24*	25MAR08A	25APR08	07APR08	-14	252													
TRIM-200	Assy drawings & parts list	5	28APR08	02MAY08	21APR08	-9	253													
TRIM-210	Prepare for FDR	5	21APR08	25APR08	28APR08	1	252													
TRIM-220	Trim Coil + Structure FDR	1	28APR08	28APR08	29APR08	1	252													
TRIM-221	** Trim Coil + Structure FDR **	0		28APR08	29APR08	1	252													
TRIM-230	Resolve Chits	5	29APR08	05MAY08	06MAY08	1	252													
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	06MAY08	10JUN08	11JUN08	1	252													
Perry																				
Job: 8215 Plant Design																				
FY07 Rebaseline Exercise																				
8210-07	Update plant model	47*	31JAN08	04APR08	26FEB08	-28	1,645													
Larry Dudek																				
Brown																				
Job: 1803/1805- FPA Tooling/Constr-BROWN/DUDEK																				
Station 3-Modular Coil to VVSA Assembly																				
1803S3-3	Station 3 alignment FDR and clean-up activities	43*	21FEB08*	21APR08	21APR08	0	208													
1803S3-3M	Station 3 alignment FDR	0		21APR08	21APR08	0	208													
1803S3-5	Analyze single point lift (proof test of support	45*	18FEB08*	18APR08	29FEB08	-35	223													
1803S3-6	Station 3 simulation detail model	15*	04FEB08*	22FEB08	22FEB08	0	263													
1803S3-7	VV/MC clearance study (for VVSA1, 2 and 3)	11	14APR08*	28APR08	15APR08	-9	187													
1803S3-8	Station 3 deflection FEA study	30	29APR08	10JUN08	28MAY08	-9	187													
1805S3-2	Left side base grout plates	62	31JAN08	25APR08	29MAY08	23	204													
1805S3-3	MCHP lift fixture frame weldment	62	31JAN08	25APR08	29MAY08	23	204													
1805S3-4	Lift fixture mounting bracket weldments	62	31JAN08	25APR08	29MAY08	23	204													
1805S3-5	Reworked laser frame structure	62	31JAN08	25APR08	29MAY08	23	204													
1805S3-6	Right inboard laser frame structure	62	31JAN08	25APR08	29MAY08	23	204													
1805S3-7	Left inboard laser frame structure	62	31JAN08	25APR08	29MAY08	23	204													
1805S3-8	Laser screen lexan sheet (1/8 x 48" x 96")	62	31JAN08	25APR08	29MAY08	23	204													
1805S3-9	Estimate for Station 2 type alignment system	62	31JAN08	25APR08	29MAY08	23	204													
1805S3-100	Hardware & Misc items	62	31JAN08	25APR08	30APR08	3	204													
1805S3-110	Misc assembly Cost	62	31JAN08	25APR08	30APR08	3	204													
1805S3-201	MC base support system (left / rt side)	62	31JAN08	25APR08	30APR08	3	204													
1805S3-202	Hilman roller - 8-0T plus R & U guides	62	31JAN08	25APR08	30APR08	3	204													
1805S3-203	AirLoc Wedgmount Precision Levelers	62	31JAN08	25APR08	30APR08	3	204													
1805S3-204	Lift fixture mounting bracket weldments	62	31JAN08	25APR08	30APR08	3	204													
1805S3-205	Estimate for Station 2 type alignment system	62	31JAN08	25APR08	30APR08	3	204													
1805S3-206	Hardware & Misc items	62	31JAN08	25APR08	30APR08	3	204													
Completed tasks omitted		RBS8	NCSX Project		Sheet 3 of 7		SORTED BY RLM AND JOB MANAGER													
			3 week look-ahead		17APR08 15:32															
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Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	Lehman Baseline Finsih	SCHEDULE slip (-)/ ahead (+)	Remaining Float	FY08				
								APR	MAY	JUN	JUL	
								4, 21	28, 5	12, 19, 26	2, 9, 16, 23	30, 7
Station 5-Final Field Period Assembly												
1803S3-2	Updated Stations Station 5 sequence plan	43	01APR08*	30MAY08	31MAR08	-43	200					
1803S5-4	Station 5 (and 3) lift fixture structures and li	10	01APR08*	14APR08	15FEB08	-41	330					
1803S5-5	Port 4 assembly tooling, models and dwgs	31	15APR08	28MAY08	31MAR08	-41	330					
1803S5-6	Complete external platform models	33	17APR08*	03JUN08	30APR08	-23	309					
1803S5-7	VV work platforms	17	04JUN08	26JUN08	23MAY08	-23	309					
1803S5-8	Station 5 support structural analysis	10	14APR08*	25APR08	14MAR08	-30	352					
1803S5-9	Station 5 PDR activities	14	21APR08*	08MAY08	11MAR08	-42	193					
1803S5-10	Station 5 FDR - Base support	22	09MAY08	10JUN08	03APR08	-47	193					
1803-5.6	Station 5 FDR	0		10JUN08	03APR08	-47	193					
1803S5-11	Base support release for fabrication	5	11JUN08	17JUN08	10APR08	-47	316					
1803S5-12	Station 5 FDR - Lift fixtures, port tooling and	10	08APR08*	21APR08	21APR08	0	351					
1803S5-13	Complete dwgs package & release for fabrication	5	22APR08	28APR08	28APR08	0	351					
1805S5-1	FPA base support system	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-2	Type-C side support structure	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-3	NB side stabilizing support structure	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-4	TF local temporary supports	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-5	20 ton screw jacks	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-6	AirLoc Wedgmount Precision Levelers	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-7	Port 4 handling structure	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-8	Small port handling structure	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-9	Station 5 (and 3) lift fixture structures	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-102	Hardware & Misc. items	105	11JUN08	06NOV08	02SEP08	-47	193					
1805S5-103	Misc. assembly Cost	105	11JUN08	06NOV08	02SEP08	-47	193					
6.00-Final Machine Assembly												
1803S6-1	Stage 6 FP support and roller system	39*	05MAY08*	27JUN08	27JUN08	0	470					
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					
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	43	31JAN08	31MAR08	16APR08	12	205					
P3-171C	Final Clamps & Warm Test (Station1) B5	16	01APR08	22APR08	08MAY08	12	207					
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	23APR08	29APR08	15MAY08	12	207					
PLTS-A6	Grinding -A6	5	01OCT07A	19SEP08	19SEP08	0	93					
PLTS-C6	Grinding & Drill Holes -C6	20	01APR08	28APR08	14MAY08	12	205					
PLTS-GRIND	Coil to coil fitup modifications (grinding/cp)	165*	01DEC07A	31JUL08	31JUL08	0	1,563					
Completed tasks omitted		RBS8	NCSX Project		Sheet 4 of 7		SORTED BY RLM AND JOB MANAGER					
			3 week look-ahead		17APR08 15:32							
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Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	Lehman Baseline Finsih	SCHEDULE slip (-)/ ahead (+)	Remaining Float	FY08				
								APR	MAY	JUN	JUL	
								4, 21	28, 5	12, 19, 26	2, 9, 16, 23	30, 7
Punchlist- Coil Technicians												
PLCT-A3	Insul,measure,TC, other punch list-A3	17	05JUL07A	14FEB08	14FEB08	0	174					
PLCT-A4	Insul,measure,TC, other punch list-A4	17	06JUL07A	05MAR08	05MAR08	0	174					
PLCT-B3	Insul,measure,TC, other punch list-B3	14	01OCT07A	20MAR08	20MAR08	0	174					
PLCT-C3	Insul,measure,TC, other punch list-C3	18	01OCT07A	07APR08	07APR08	0	174					
PLCT-B4	Insul,measure,TC, other punch list-B4	14	01OCT07A	21APR08	21APR08	0	174					
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	06NOV08	06NOV08	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	16MAY08	04JUN08	12	205					
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	76					
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					
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	183					
1204-141	Drawings Signed T/C and Heater Tape Leads	0		30APR08	30APR08	0	183					

Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	Lehman Baseline Finish	Schedule slip (-)/ahead (+)	Remaining Float	FY08			
								APR	MAY	JUN	JUL
								4, 21, 28, 5	12, 19, 26, 2	9, 16, 23, 30, 7	
1204-144	Check elect characteristics T/C & heater port 12	65	01MAY08	01AUG08	01AUG08	0	183				
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	14APR08	-22	141				
R1802-309	JHA completed	6	15MAY08	22MAY08	22APR08	-22	141				
R1802-311	Training needs identified & released	6	23MAY08	02JUN08	30APR08	-22	141				
R1802-313	ACC review completed	6	03JUN08	10JUN08	08MAY08	-22	141				
R1802-315	Pre-job brief completed	6	11JUN08	18JUN08	16MAY08	-22	141				
Job: 1810 - Field Period Assy Station 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	06MAY08	06MAY08	0	244				
R1810-1100	Design & Build heater& thermo termination box	41	06MAR08*	01MAY08	01MAY08	0	254				
R1810-1101	heater& thermo termination & verification	18	02MAY08	28MAY08	28MAY08	0	254				
Station 1- VV Prep (hrd surf cmpnts FP#2)											
R1810-1208	Perform final acceptance testing (H/C flow test)	32	16APR08	30MAY08	30MAY08	0	341				
Setup											
R1810-2036	Fuji Paper	518*	31JAN08	01MAR10	27FEB08	-498	1,174				
R1810-2045	2 Electric Torque wrench	86*	31JAN08*	30MAY08	17APR08	-30	1,606				
R1810-2080	3rd laser tracker	34*	01APR08A	16MAY08	30APR08	-12	1,615				
R1810-2027	Install THIRD Holding 20 deg fixture	33*	01APR08A	15MAY08	14APR08	-23	1,616				
R1810-2084	Design and purchase 3 additional wedge	87*	31JAN08A	02JUN08	02JUN08	0	18				
R1810-2024	Rework wedges f/combined assemblies& coil	97*	31JAN08	16JUN08	13FEB08	-87	1,595				
R1810-2026	Setup up satellite shop in Mock-up area	15	01MAY08	21MAY08	20FEB08	-65	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	30APR08	-21	1,606				
R1810-2088	HEPA machine tool exhaust system	86*	31JAN08*	30MAY08	30APR08	-21	1,606				
R1810-2089	Tools, cabinets & storage shelving	65	31JAN08*	30APR08	30APR08	0	1,627				
R1810-2002	Purchase grinding machine	86*	31JAN08	30MAY08	02APR08	-41	1,606				
S20-4.02	Perform metrology set-up; purchase 6 pillars	86*	31JAN08*	30MAY08	31MAR08	-43	1,606				
Pre-Measuring and fitup checks											
Pre measurement of MCHP A2,B2,C2 flanges											
2-2-2.99	Drill Stycast fill holes	3	27MAR08*	31MAR08	31MAR08	0	152				
S22-3.02	Compress shims sort by thickness	81*	07MAR08A	30JUN08	03APR08	-61	1,585				
Pre measurement of MCHP A3,B3,C3 flanges											
2-3-2.99	Drill Stycast fill holes	3	01APR08*	03APR08	03APR08	0	156				
S23-3.02	Compress shims sort by thickness	20	14APR08	09MAY08	21APR08	-14	76				
S23-4.01	Install MCHP fixtures & metrology equip	6	29MAY08	05JUN08	21APR08	-32	58				
S23-4.03	Ready For Preassembly A3B3C3	0	06JUN08	05JUN08	21APR08	-32	58				
Pre measurement of MCHP A4,B4,C4 flanges											
S24-1.01	Verify mating MC's of MCHP will come together	4	16APR08	21APR08	25APR08	4	174				
S24-2.08	Measure C4 "A" flange	8	22APR08	01MAY08	07MAY08	4	174				
2-4-2.99	Drill Stycast fill holes	3	04APR08*	08APR08	08APR08	0	191				
S24-3.02	Compress shims sort by thickness	6	12MAY08	19MAY08	12MAY08	-5	162				

Activity ID	Activity Description	Duration (work days)	Forecast Start	Early Finish	Lehman Baseline Finsih	Schedule slip (-)/ ahead (+)	Remaining Float	FY08													
								APR	MAY	JUN		JUL									
								4	21	28	5	12	19	26	2	9	16	23	30	7	
Pre measurement of MCHP A5,B5,C5 flanges																					
S25-1.01	Verify mating MC's of MCHP will come together	4	07MAY08	12MAY08	12MAY08	0	205														
S25-2.01	Set the B5 coil on fixture, & measure	1	13MAY08	13MAY08	13MAY08	0	205														
Station 2 MC subassy A1B1C1																					
A-B MC Assembly																					
2-1-6.33	Weld A / B nose region solenoid side	3	16APR08*	18APR08	30MAY08	29	29														
2-1-6.34	Measure positions of all monuments	1	21APR08	21APR08	02JUN08	29	29														
2-1-6.35	Review with Back Office. INSTALL wing supports	10	22APR08	05MAY08	16JUN08	29	29														
2-1-6.36	Identify, a set of monuments moved less than .0	0	06MAY08	05MAY08	16JUN08	29	29														
2-1-6.37	Fill all loose bushings with Stycast 2850FT	6	06MAY08	13MAY08	24JUN08	29	29														
2-1-6.38	Scan "B" flange (datum "E") of "B" coil,	1	13MAY08	13MAY08	24JUN08	29	29														
Station 2 MC subassy A2B2C2																					
A-B MC Assembly																					
2-2-6.051	Perform alignment "B" coil tooling balls	1	14APR08*	14APR08	01MAY08	13	94														
2-2-6.06	Install jack screws & dial indicators	1	15APR08	15APR08	02MAY08	13	94														
2-2-6.07	Position coil within ±.002" normal plane	1	16APR08	16APR08	05MAY08	13	94														
2-2-6.08	Install remaining alumina coated shims; studs,s	1	17APR08	17APR08	06MAY08	13	94														
2-2-6.09	torque50% of final value & recheck.	1	18APR08	18APR08	07MAY08	13	94														
2-2-6.10	Measure position of all monuments	2	21APR08	22APR08	09MAY08	13	94														
2-2-6.11	Measure shim puck height	2	23APR08	24APR08	13MAY08	13	94														
2-2-6.12	Remove puck locating rings & install all nose s	3	25APR08	29APR08	16MAY08	13	94														
2-2-6.13	"Lightly" tack weld nose flex shims "A" & "B"	1	30APR08	30APR08	19MAY08	13	94														
2-2-6.14	Unfasten bolts & remove "B" coil place it on sep	1	01MAY08	01MAY08	20MAY08	13	94														
2-2-6.15	Recheck part alignment of "A" coil	2	02MAY08	05MAY08	22MAY08	13	94														
2-2-6.151	Weld all Type-A flex shims plasma side	2	06MAY08	07MAY08	27MAY08	13	94														
2-2-6.16	recheck alignment	1	08MAY08	08MAY08	28MAY08	13	94														
2-2-6.17	Back office assessment of part after weld	2	09MAY08	12MAY08	30MAY08	13	94														
2-2-6.18	Measure "B" fiducials estab coord sys	1	09MAY08	09MAY08	29MAY08	13	95														
2-2-6.19	Weld all Type-B (A-flange) flex shims plasma sid	2	13MAY08	14MAY08	03JUN08	13	94														
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
4/18/2008					
	1355	Conventional Coils I&C	Cole	4/18/2008	Identify progress milestones
	1803/1805	Provide personnel to accomplish this study	Brown Strykowski	4/18/2008	Delay Station 3 clearance study by one month
	8203	Station 5 envelop study needed to follow up on port alignment issues.	Brown/Cole	4/18/2008	Define who will do this study
	3101	Provide status of heater tape leads - Due by April 30th	Stratton	4/18/2008	
	1260	Define path forward for enclosing pyrogel in nomex bats	Harris	4/18/2008	Work with Benson to define scope of R&D needed and procedures.
4/11/2008					
	1302/1352	Provide progress payment schedule to Strykowski	Chrzanowski	4/18/2008	
	1806	Station 3 drawings and CSPEC	Harris/Cole	4/18/2008	Forecast is now April 30th - need by them to preclude impacting Station 3 schedule and potential acceleration of the schedule.
	8203	Station 5 drawings out for review.	Brown	4/18/2008	Being reviewed
4/4/2008					
	1353 1501/1551 1702/1752 8203	Shortage of designers impacting scheduled work (PF1A design, FDR, Design Integration, etc.)	Chrzanowski & Williams Harris/Cole Dahlgren Strykowski Brown	4/18/2008	Provide replacement designer either by hiring (resumes received and interviews being conducted) or utilizing ORNL personnel. Dahlgren provide sketch of PF1-A scheme to ORNL. Still working issues. Perhaps reschedule? Base support structure may be delayed due to work needed to accommodate outer support
	1501/1551 1702/1752	SRDs for both Coil Support Structure and Base Support Structure out for comment	Impacting WBS Managers	4/18/2008	Both out for signature on 4/14
	1354	Update of SRD and resolution of PDR CHITs	Kalish	4/18/2008	SRD signed & posted 4/15 - Still working on CHITs

Weekly Meeting Actions Tracking Log Open Action Items

	1810	Resolve heating/cooling leak issues - assess issue, causes, and mitigation plans	Viola Harris/Cole/Goranson	4/18/2008	<p>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).</p> <p>Immediate assembly issue is closed (hoses being replaced)</p> <p>Reliability issue: VV FEMEC (July 2006) now in sign-off. Nelson to organize review and followup.</p>
3/19/2008					
	1806	Comments needed on Station 3 drawings	Cole, Brown, Viola, etc.	4/18/2008	Need comments
	1806	Station 5 - need progress milestones	Cole	4/18/2008	Identify progress milestones
	1702	Base Support Dwgs comments overdue	Heitzenroeder	4/18/2008	Need comments - followup w/ reviewers, especially Raftopoulos
	8205	Dimensional Control Plan for Station 3	Ellis	4/18/2008	Need to issue for comment ASAP (NLT than 4/30/2008)
	1601-161	When will we have a PDR for the leads?	Goranson, Heitzenroeder, Ramakrishnan	4/18/2008	Work with ORNL to schedule PDR (Tentatively early June). Also question about routing cooling lines. Need for bleed resistors - peer review scheduled 4/4
	1354	Trim coil - plans to meet FDR date?	Kalish/Viola/Neilson	4/18/2008	Working on meeting April 29th FDR date - some discussions on impact of potential changes to supports - adjustability & welding questions. Will FMEA be provided as required for the FDR? Consider delaying FDR one week.
	1803/1805	Delivery for additional wedges	Dudek, Viola	4/18/2008	Original delivery May 9th - however, first wedge expected mid-April. Follow-up with Procurement.
		Need new weld engineer	Dudek	4/18/2008	Reviewing resumes