NCSX Project Meeting April 11, 2008

Background: This is a report of the Project Meeting held Friday, April 11th. 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:

<u>Safety Briefing</u> –Larry Dudek (copy of presentation attached) on PPPL Tagout Systems and procedures. Major messages:

- Report obsolete / orphaned tags to ES&H or management
- Use of Danger tags is restricted to LOTO situations, not just for general hazards

Heitzenroeder (RLM)

- <u>Tom Brown (Jobs 8203/8205 Design Integration)</u> Tom needs help. Designer shortages, support for computer procurements, ProE & mechanica licenses.
 - o Hire additional designers (reqn in system). Chrzanowski
 - Can ORNL bring additional help to bear? **Cole/Harris**
 - Computers and licenses: OK to charge new computers to project if needed for **Chrzanowski**
- <u>Jim Chrzanowski Mike Kalish reporting Jobs 1302/1352</u>) PF coil procurement bid evaluation on schedule. Ron Strykowsky needs a progress payment schedule. **Chrzanowski**
- <u>Mike Cole (Jobs 1416/1421/1806</u>.
 - FMECA is in signature cycle. Need signature from ORNL people. **Harris/Cole** follow up with signatories.
 - 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 2 CSPEC in signature process. Viola/Levine/Heitzenroeder yet to sign.
 - 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
- Fred Dahlgren (Jobs 1353/1501/1702)
 - CS Support. Dahlgren. Need designer for PF1a interconnect bus. ORNL? Lew will pick up some of the base structure work. April 30 FDR looks

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good. Phil & Mike Cole find solution for interconnect bus. Dahlgren send estimate and sketch to Jeff and Mike.

- 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**
- <u>Bob Ellis (Job 8205)</u> 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**
- <u>Mike Kalish (Jobs 1361 & 1354)</u>:
 - 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. tooling drawings are out. MV needs design calculations for lift fixtures. **Brown**
 - Station 5 on hold due to other things getting higher priority for designer support. Missed FDR April 3. *No forecast.* **Tom update forecast**.
 - 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 Bill England visit and approval next week. Project accepts the delay. MV will do C1 fit-up in the meantime.
 - Station 3 lifts: DOE has been given notice and needed information regarding Sta. 3 lifts. Ball in DOE's court. Viola continue to follow up.
 - Station 3 real estate. Need it in time to set up Station 3. Want to accelerate Get started mid-June? Larry
 - Heating and cooling hoses. We have 13 leaks out of 192. Recovery is to replace. What is the plan for addressing the long-term reliability risk? FMECA? How many could we live without? Shields? Impact on He consumption, etc.. Harris/Goranson

SAFETY TAGS----"DANGER", "NOTICE", "CAUTION"



- Safety tags are placed on equipment
 - to isolate a hazardous energy source for personnel protection
 - to identify unsafe, damaged, or deficient systems, components, or equipment
 - to prevent improper operation when a component, system, or portion of a system is isolated or in an abnormal condition
- To prevent potential safety hazards and injury
 - -Use the correct tag for the intended purpose
 - Record all of the required information
 - Do not remove the tag without contacting the authorized person (installer)





"DANGER" Tags



 Indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury. Danger tags are used for "Lockout / Tagout" of energy isolation devices. Danger tags are to be used for "LO/TO" ONLY when safing a circuit or system so work can be performed on the system safely.

0	
TAG # 37120 PPPL LOCKOUT TAGOUT SYSTEM	PPPL LOCKOUT TAGOUT SYSTEM
DANGER	DANGER
DO NOT USE, MOVE OR OPERATE	DO NOT USE, MOVE OR OPERATE DO NOT REMOVE THIS TAG
This tag is attached to	This tag indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Unauthorized removal or tampering with this tagged equipment is cause for dismissel. A life is on the line!
	TASK DESCRIPTION OR REASON FOR TAG
AUTHORIZED PERSON APPLYING TAG	
Name:	
Co./Dept.:	
Date: Pager #:	
STUB TO BE KEPT BY AUTHORIZED EMPLOYEE OR KEPT IN A LOCK BOX	Reason For Tag:
Name: TAG #: 37120 This Tag Has Been Attached To	Location:

Front



Back



"CAUTION" Tags

 A tag designation used to indicate that a system, component, or equipment requires restrictions or limitations, and where violating the tag may result in injury to personnel or damage to equipment.

DO NOT REMOVE THIS TAG CAUTION DO NOT OPERATE This tag attached to:	O DO NOT REMOVE THIS TAG COUTONS CONTREMOVE THIS TAG CONTREMOVE THIS TAG	
 Location Name		Back
Co./Dept		
Phone #Pager # Tag ID # SEE REVERSE	SYSTEM SHUTDOWN MAINTENANCE REQUIRED TEST OUT OF DATE Feb-07	



Front





"NOTICE" Tags



 NOTICE tag designation to be used for information purposes, where there is no risk of injury to personnel or damage to equipment.

O DO NOT REMOVE THIS TAG NOTICE INFORMATION This tag attached to:	O DO NOT REMOVE THIS TAG NOTICE THIS IS AN EQUIPMENT CONTROL TAG TO IDENTIFY OPERATIONAL STATUS OF THIS SYSTEM SPECIAL INSTRUCTIONS OR CONDITIONS	Back
Location		
Date Phone#Pager# Tag ID # SEE REVERSE	DO NOT OPERATE PERMANENT SHUTDOWN STORAGE Š FUTURE USE MAY-07	

Front



1



For More Information



- PPPL ESH-001 Use of Safety, Accident Prevention, and Equipment Protection tags
- PPPL ESH-016 Control of Hazardous Energy Sources (LO/TO)







Activity ID	Activity Description	Duratior (work	Forecast Start	Forecast Finish	Lehman Baseline	Remaining Float	slip(-)/		MAR	FY08	APR	N
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ob: 8203 - D	Design Integration-BROWN											
8203FY08-1	Service routing within cryostat & TC	46*	29FEB08*	02MAY08	02MAY08	1,625	0					
8203FY08-2	Facility models update&integration	43	02APR08*	02JUN08	02JUN08	1,605	0					
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ob: 1302 - F	F Design -CHRZANOWSKI											
1302-275	Resolve FDR Chits	51	22FEB08*	02MA Y08	02MAY08	1,255	0					
ob: 1352 - F	PF Coil Procurement-CHRZANOWSKI					.,	-					
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141-038.1	PF Conductor Delivery	105*	21FEB08A	18JUL08	30MAY08	355	-34					
141-039	Bid & Award Materials PF Materials Awarded	21	03MAR08*		31MAR08	1,581	0					
141-040 1352-100		0 68	01APR08	31MAR08	31MAR08 07JUL08	1,581	0					
1352-100	Materials Delivery PF 4,5,6 Bid & Award PF Coil Fabrication	60*	07MAR08*	30MAY08		1,581	0					
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141-035C	SPEB Evaluation complete	0		18APR08*		303	0					
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	Description	(work days	Start	Finish	Baseline Finish	Float	slip(-)/ ahead (+)		4 21 28 5 12
6.00-Final	Machine Assembly								
1803-601	Station 6 Assembly Specification	120	15APR08*	020CT08	02OCT08	377	0		
1803-605	Station 6 Assembly Drawings	120	15APR08*	020CT08	02OCT08	377	0		
1803-613	Detail dwgs-man access port	120	15APR08*	020CT08	02OCT08	377	0		
Dahlgre	n								
	3 - CS Structure Procurement-PERRY								
CS Suppor	rt Structure								
1353-001	Design PE1s upper to lower interconnect bus	12	151000*	2040000	204 0009	664			
	Design PF1a upper to lower interconnect bus		15APR08*	30APR08	30APR08	664	0		
JOD: 170	2 - Base Support Struct Design-DAHLGRE	N							
1702-520	Final design. Assy dwgs, fab dwgs,	64*	01FEB08A	30APR08	30APR08	147	0		
1702-525	M Base Support Structure FDR	0		30APR08	30APR08	147	0		
Job: 150 ⁻	1 - Coil Structures Design-DAHLGREN								
1501-533	Detail CAD Drawings,BOM	260*	01JUN07A	16JUN08	16JUN08	212	0		
1501-533		176*	010CT07A		16JUN08	222	0		
1501-536	Issue dwgs for review	0		01APR08*		245	0		
Dudek					• • • • • • •	240	Ū		
	9 - MC Interface R&D-DUDEK								
	Interface-Friction								
		1							
1429-3030	G-10 Test	30	03MAR08*	11APR08	11APR08	1,640	0		
Ellis									
Job: 820	5 - Dimensional Control Coordin-ELLIS								
METDCP	-3 Dimensional control plans for station 3	40	05FEB08	31MAR08	31MAR08	163	0		
Goranso	>n	I							
Job: 160 ⁻	1 - Coil Services Design-GORANSON								
161 - LN2 I	Distribution								
191-001	Title I design WBS 161 LN2 manifolds&piping	166*	010CT07A	02.11.1N/08	02JUN08	231	0		
	rical Leads	100	01001017	02301100	02301408	231	0		
	·····	1	1						
132-001	Title I design WBS 162 Coil leads	180*	03DEC07A	21AUG08	21AUG08	199	0		
Kalish									
	1 - TF Fabrication-KALISH								
TF Fabrica	tion Contract								
1361C-10	8 Fab, Test & Deliver Coil #8	21*	31JAN08	28FEB08	28FEB08	497	0		
1361C-10	9 Fab, Test & Deliver Coil #9	1	24MAR08*	24MAR08	24MAR08	496	0		
1361C-11	0 Fab, Test & Deliver Coil #10	1	15APR08*	15APR08	15APR08	496	0		
Job: 1354	4 - Trim Coil Design & Procurement-KALIS	H	1						
	*Updated estimate**								
TRIM-130	Proporo Conductos Programant Care	2	05144 000	07440000	07144 000				
		3	25MAR08*	27MAR08		344	0		
TRIM-140		5	28MAR08*	03APR08		344	0		
TRIM-120		80	04APR08	28JUL08	25AUG08	344	20		
TRIM-170		10	25MAR08*	07APR08	07APR08	251	0		
TRIM-200	, , ,	10	08APR08	21APR08		251	0		
TRIM-210		5	22APR08	28APR08	28APR08	251	0		
	RBS	B	NCSX P 3 week loo	roject	Sheet 2 of 7 PR08 09:24	SORTED B	Y RLM ANI	D JOB MANAGER	
	© Primavera Systems, Inc.		S WEEK IOO	ok-anead~		Completed ⁻	Fasks Excl	uded	

	Activity	Activity	Duration	Forecast	Forecast	Lehman	Remaining	Schedule					F	Y08				
	ID	Description	(work	Start	Finish	Baseline	Float	slip(-)/	F	N	IAR				APR			MAY
			days			Finish		ahead (+)	5 3	10	17	_24	31	7	14	21	28	5 12
	TRIM-220	Trim Coil + Structure FDR	1	29APR08	29APR08	29APR08	251	0					M					
	TRIM-221	** Trim Coil + Structure FDR **	0		29APR08	29APR08	251	0				///	M			1		
	TRIM-230	Resolve Chits	5	30APR08	06MA Y08	06MAY08	251	0				$\overline{//}$	$\overline{//}$					
	TRIM-150	Prepare Trim Coil Procurement Spec.	10	25MAR08*	07APR08	07APR08	256	0										
	TRIM-160	Approve Procurement Spec	5	08APR08	14APR08	14APR08	256	0										
F	erry											$\overline{//}$	$\overline{//}$	$\overline{//}$				
	Job: 8215 Pla	Int Design											M					
	FY07 Rebaselin	e Exercise										////	}					
	8210-07	Update plant model	47*	31JAN08	04APR08	26FEB08	1,645	-28						'///				

	RBS8	NCSX Project Sheet 3 of	
© Primavera Systems, Inc.		3 week look-ahead	Completed Tasks Excluded

Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	Lehman Baseline Finish	Remaining Float	Schedule slip(-)/ ahead (+)		 APR 14 21 2	MA)
arry Duc	lek	uuyo					anoua (1)			
rown										
	05- FPA Tooling/Constr-BROWN/DUDE	ĸ								
	ar Coil to VVSA Assembly									
						1	1			
1803-3.11	Deliver Support Cart (PE 007703)	69*	150CT07A				0			
1803S3-1	Flange bolt/VV support access platform	10*	03MAR08*	14MAR08	14MAR08	248	0			
1803S3-2	Updated Stations 3 and 5 sequence plan	43*	31JAN08*		31MAR08	208	0		<u></u>	
1803S3-3	Station 3 alignment FDR and clean-up activities	15	01APR08*		21APR08	208	0			
1803S3-3M	Station 3 alignment FDR	0		21APR08	21APR08	208	0			
1803S3-5	Analyze single point lift (proof test of support	10*	18FEB08*	29FEB08	29FEB08	258	0		<u></u>	
1803S3-6	Station 3 simulation detail model	15*	04FEB08*	22FEB08	22FEB08	263	0			
1803S3-7	VV/MC clearance study (for VVSA1, 2 and 3)	11*	01APR08*	15APR08	15APR08	196	0			
1803S3-8	Station 3 deflection FEA study	30	16APR08	28MA Y08	28MAY08	196	0			
1805S3-2	Left side base grout plates	85	31JAN08	29MA Y08	29MAY08	181	0			
1805S3-3	MCHP lift fixture frame weldment	85	31JAN08	29MAY08	29MAY08	181	0			
1805S3-4	Lift fixture mounting bracket weldments	85	31JAN08	29MAY08	29MAY08	181	0			
1805S3-5	Reworked laser frame structure	85	31JAN08	29MAY08	29MAY08	181	0			
1805S3-6	Right inboard laser frame structure	85	31JAN08	29MAY08	29MAY08	181	0			
1805S3-7	Left inboard laser frame structure	85	31JAN08	29MA Y08	29MAY08	181	0			
1805S3-8	Laser screen lexan sheet (1/8 x 48" x 96")	85	31JAN08	29MAY08	29MAY08	181	0			
1805S3-9	Estimate for Station 2 type alignment system	85	31JAN08	29MAY08	29MAY08	181	0			
1805S3-100	Hardware & Misc items	65	31JAN08	30APR08	30APR08	201	0			
1805S3-110	Misc assembly Cost	65	31JAN08	30APR08	30APR08	201	0			
1805S3-201	MC base support system (left / rt side)	65	31JAN08	30APR08	30APR08	201	0			
1805S3-202	Hilman roller - 8-0T plus R & U guides	65	31JAN08	30APR08	30APR08	201	0			
1805S3-203	AirLoc Wedgmount Precision Levelers	65	31JAN08	30APR08	30APR08	201	0			
1805S3-204	Lift fixture mounting bracket weldments	65	31JAN08	30APR08	30APR08	201	0			
1805S3-205	Estimate for Station 2 type alignment system	65	31JAN08	30APR08	30APR08	201	0			
1805S3-206	Hardware & Misc items	65	31JAN08	30APR08	30APR08	201	0			
Station 5-Final I	Field Period Assembly									
				I 		1				
1803S5-4	Station 5 (and 3) lift fixture structures and li	10*	04FEB08*	15FEB08	15FEB08	371	0			
1803S5-5	Port 4 assembly tooling, models and dwgs	31	18FEB08	31MAR08		371	0			
1803S5-6	Complete external platform models	33*	17MAR08*	30APR08	30APR08	332	0			
1803S5-8	Station 5 support structural analysis	10*	03MAR08*	14MAR08		382	0			
1803S5-9	Station 5 PDR activities	14	21FEB08*		11MAR08	385	0			
1803S5-10	Station 5 FDR - Base support	22*	05MAR08*	03APR08	03APR08	240	0		<u> </u>	
1803-5.6	Station 5 FDR	0		03APR08	03APR08	240	0			
1803S5-11	Base support release for fabrication	5	04APR08	10APR08	10APR08	363	0			
1803S5-12	Station 5 FDR - Lift fixtures, port tooling and	10	08APR08*	21APR08	21APR08	351	0			
1803S5-13	Complete dwgs package & release for	5	22APR08	28APR08	28APR08	351	0		🗖]
1805S5-1	FPA base support system	105	04APR08	02SEP08	02SEP08	240	0			
1805S5-2	Type-C side support structure	105	04APR08	02SEP08	02SEP08	240	0			
1805S5-3	NB side stabalizing support structure	105	04APR08	02SEP08	02SEP08	240	0	X/////////////////////////////////////		
1805S5-4	TF local temporary supports	105	04APR08	02SEP08	02SEP08	240	0			
1805S5-5	20 ton screw jacks	105	04APR08	02SEP08	02SEP08	240	0			
1805S5-6	AirLoc Wedgmount Precision Levelers	105	04APR08	02SEP08	02SEP08	240	0			
1805S5-7	Port 4 handling structure	105	04APR08	02SEP08	02SEP08	240	0			
1805S5-8	Small port handling structure	105	04APR08	02SEP08	02SEP08	240	0			
	1		1	1	1		i k	<u> </u>	 4	-

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Activity ID	Activity Description	(work	Forecast Start	Forecast Finish	Lehman Baseline	Remaining Float	Schedule slip(-)/	FY08 MAR APR M.
1805S5-9	Station 5 (and 3) lift fixture structures	days 105	04APR08	02SEP08		240	anead (+) 5	3 10 17 24 31 7 14 21 28 5
		-					0	
						-	-	
	-	1.00	0 // 1/ 1/00	0202,00	0202.00	240		
00. 1400 - 14								
					1			
	-	55	17MAR08*	02JUN08	02JUN08	170	0	
Station 3-Castin	g Prep & Winding							
P1-161	Wind coil A6	42*	28MAR08A	27MAY08	27MAY08	93	0	
Station 4-Windin	ng, Instl Chill Plates,Tubing,Bag	1						
P3-170	Inst Chill Plates Tubing Bag B6	12	21 14 1084	301 PP08	02 11 1008	171	22	
	· • •	42	STJANUOA	JUAFRUO	02301408	1/1	22	
P2-051C	Final Clamps & Warm Test (Station1) C6	43	31JAN08	31MAR08	16APR08	205	12	
P3-171C	Final Clamps & Warm Test (Station1) B5	16	01APR08	22APR08	08MAY08	207	12	
		SKI						
Punchlist Tech	shop/RESA							
PLTS-C3	Grinding & Drill Holes -C3	102*	010CT07A	03MAR08	03MAR08	187	0	
PLTS-C4	Grinding & Drill Holes -C4	5	010CT07A	10MAR08	10MAR08	214	0	
PLTS-C5	Grinding & Drill Holes -C5	5						
						-		
		-						
							6	
			01BE00111	0100200	0100200	1,000		
		1	I	1	1 1			
PLCT-A3	Insul,measure,TC, other punch list-A3	17	05JUL07A	14FEB08	14FEB08	174	0	
PLCT-A4	Insul,measure,TC, other punch list-A4	17	06JUL07A	05MAR08	05MAR08	174	0	
PLCT-B3	Insul,measure,TC, other punch list-B3	14	010CT07A	20MAR08	20MAR08	174	0	
PLCT-C3	Insul,measure,TC, other punch list-C3	18	010CT07A	07APR08	07APR08	174	0	
PLCT-B4	Insul,measure,TC, other punch list-B4	14	010CT07A	21APR08	21APR08	174	0	
PLCT-C4	Insul,measure,TC, other punch list-C4	14	25JUL07A	02MAY08	02MAY08	184	0	
PLCT-A5	Insul,measure,TC, other punch list-A5	14	30JUL07A			184	0	
PLCT-A6	Insul,measure,TC,SG other punch list-A6	14				93	0	x/////////////////////////////////////
PLCT-B5	Insul,measure,TC, other punch list-B5	14				93	0	
PLCT-C5	Insul,measure,TC, other punch list-C5	18	010CT07A	06NOV08	06NOV08	93	0	
PLCT-B6	Insul,measure,TC,SG other punch list-B6	14	010CT07A		18AUG08	171	22	<u> </u>
PLCT-C6	Insul,measure,TC,SG other punch list-C6	14	010CT07A	16MA Y08	04JUN08	205	12	
udek								
	od. Coil Interface Hardware-DUDEK							
Bladders								
1421-3024	Prep Req, Bid,& Award Remaining Bladders	21*	03MAR08*	31MAR08	31MAR08	114	0	<u>X////////////////////////////////////</u>
1421-3025	Deliver remaining bladders	14*	01APR08	18APR08	18APR08	114	0	
1421-3028	Bladders available	0		18APR08	18APR08	114	0	
Pucks	l		l				-	//////////////////////////////////////
4400 0446		0001	0.4550	044	041115-55			
1429-3110	PPPL cut and grind to thickness	290*	04FEB08	31MAR09	31MAR09	17	0	
	ID 1805S5-9 1805S5-102 1805S5-103 hrzanows ob: 1408 - M 1408-4.1 ob: 1451 - M Station 3-Castin P1-161 Station 1 Post V P2-051C P3-170 Station 1 Post V P2-051C P3-171C ob: 1459 - M ounchlist Tech PLTS-C3 PLTS-C4 PLTS-C5 PLTS-C6 PLTS-C6 PLTS-GRIND Ounchlist Coil 0 PLCT-A3 PLCT-C3 PLCT-A4 PLCT-C4 PLCT-A5 PLCT-A6 PLCT-A5 PLCT-A6 PLCT-C5 PLCT-A6 PLCT-C6 Udek Ob: 1431 - M 3adders 1421-3024	ID Description 1805S5-9 Station 5 (and 3) lift fixture structures 1805S5-102 Hardware & Misc. items 1805S5-103 Misc. assembly Cost hrzanowst Focure Strain Gages ob: 1408-4.1 Procure Strain Gages ob: 1451- Word Coil Winding-CHRZANOWSKI Kation 3-Casting Prep & Winding P1-161 Wind coil A6 Station 1-Cost Virol Plates, Tubing, Bag P3-170 Instl Chill Plates, Tubing, Bag Station 1 Post Virol Plates, Tubing, Bag P3-170 Instl Chill Plates, Tubing, Bag Station 1 Post Virol Plates, Tubing, Bag P3-170 Instl Chill Plates, Tubing, Bag Station 1 Post Virol Plates, Tubing, Bag P3-170 Instl Chill Plates, Tubing, Bag Station 1 Post Virol Plates, Tubing, Bag Station 1) C6 P3-171 Final Clamps & Warm Test (Station1) C6 P3-171C Final Clamps & Warm Test (Station1) C6 P3-171C Final Clamps & Dill Holes -C3 PLTS-C5 Grinding & Drill Holes -C4 PLTS-C5 Grinding & Drill Holes -C5 PLTS-C6 Grinding & Drill Holes -C6 PLTS-C8 Grinding & Drill Holes -C6 PLTS-C8 Grinding & Drill Holes -C6 PLTS-C9 Insul, measure, TC, other punch list-A3 <td>D Description (work days (work days) 1805S5-90 Station 5 (and 3) lift fixture structures 105 1805S5-102 Hardware & Misc. items 105 1805S5-103 Misc. assembly Cost 105 hrzanowski International and the structures 105 hrzanowski Procure Strain Gages 55 ob: 1451 - MC Coil Winding-CHRZANOWSKI 55 ob: 1451 - MC Coil Winding-CHRZANOWSKI 42° Station 3-Casting Prep & Winding 42° Station 4-Wind Coil A6 42° Station 1 Post VP Vind coil A6 42° Station 1 Post VP Vind Coil A6 42° Station 1 Post VP Vind Coil A6 43 P3-170 Instl Chill Plates, Tubing,Bag B6 43 P3-171C Final Clamps & Warm Test (Station1) C6 43 P3-171C Final Clamps & Warm Test (Station1) B5 16 ob: 1459 - MC Coil Fabr.Punch List-CHRZANOWSKI 10° P1TS-C3 Grinding & Drill Holes -C3 10° P1TS-C5 Grinding & Drill Holes -C3 10° P1T</td> <td>IDDescriptionWork daysStatt1805S5-90Station 5 (and 3) lift fixture structures10504APR081805S5-102Hardware & Misc. items10504APR081805S5-103Misc. assembly Cost10504APR081805S5-103Misc. assembly Cost10504APR08hrzanowskistation 35517/MAR08*ob: 1408 - MC Coil Winding Supplies-CHRZANOWSKI5517/MAR08*1408-4.1Procure Strain Gages5517/MAR08*ob: 1407 - MC Coil Winding-CHRZANOWSKI42°28/MAR08AStation 3-Casting Prep & Winding42°31/AN08P1-161Wind coil A642°31/AN08Station 4-Winding, Instl Chill Plates, Tubing, Bag1601APR08P3-170Instl Chill Plates, Tubing, Bag1601APR08P3-170Final Clamps & Warm Test (Station1) B516010C707AP3-171CFinal Clamps & Warm Test (Station1) B516010C707AP1TS-C5Grinding & Drill Holes -C3102010C707AP1TS-C6Grinding ADrill Holes -C55010C707AP1TS-C6Grinding ADrill Holes -C62001APR08P1TS-C6Grinding & Drill Holes -C616010C707AP1TS-C6Grinding & Drill Holes -C618010C707AP1TS-C6Grinding & Drill Holes -C618010C707AP1TS-C6Grinding & Drill Holes -C618010C707AP1TS-C6Grinding & Drill Holes -C618010C707AP1TS-C6G</td> <td>DDescriptionWord Part of an an an antipart of antipart of</td> <td>D Description work Start Finith Baseline 180555-01 Station 5 (and 3) lift fixture structures 105 0/4APR08 02SEP08 02JUN08 02SEP08 02JUN08 02</td> <td>10 Description Great All toture structures 100 OUAPROS Call SERIOS 025EPOS 2240 180555-102 Hardware & Masc. Items 105 OUAPROS C25EPOS 025EPOS 240 180555-102 Hardware & Masc. Items 105 OUAPROS C25EPOS 025EPOS 240 180555-103 Misc. assembly Cost 105 OUAPROS C25EPOS 025EPOS 240 1408 - MC Winding Supplies-CHRZANOWSKI 100 0UAROS 2JUINOS 170 1405 - IMOC Coil Winding-CHRZANOWSKI 300APROS 2JUNOS 170 1405 - IMOC Coil Winding-CHRZANOWSKI 300APROS 02JUNOS 170 1405 - IMOC Coil Winding-Bag BS 42 3JJANOS 300APROS 02JUNOS 170 170 Instl Chill Plates, Tubing,Bag 42 3JJANOS 3IMAROS 160 01APROS 22APROS 004MAYOS 205 1711 Final Clamps & Warm Test (Station1) CS 43 3JJANOS 3IMAROS 167 01APROS</td> <td>D Description Open Age Start Finith Baseline Finith Bit all eff 2 180855-102 Hallen 6 (and 3) lift future structures 106 OdA/PR08 02SEP08 02SEP08 240 0 180855-102 Mile. assembly Cost 106 OdA/PR08 02SEP08 02SEP08 240 0 180855-102 Mile. assembly Cost 106 OdA/PR08 02SEP08 02SEP08 240 0 180855-102 Mile. assembly Cost 106 OdA/PR08 02SEP08 02SEP08 240 0 1408-4.1 Procure Strain Gages 55 17///AR08* 02JUN08 170 0 1408-5.1 Moding CHRZANOWSKI Stana 3Cassing Prep & Winding 93 0 0 0 0 171 22Z 18010 - 1101 Mile Nile Nile Plates, Tubing, Bag 42 31//AN08 31//AR08 16APR08 207 172 192170 Insit Chill Plates, Tubing, Bag 10 174/RR08 21/AR08 31/AR080 16APR08 207 <</td>	D Description (work days (work days) 1805S5-90 Station 5 (and 3) lift fixture structures 105 1805S5-102 Hardware & Misc. items 105 1805S5-103 Misc. assembly Cost 105 hrzanowski International and the structures 105 hrzanowski Procure Strain Gages 55 ob: 1451 - MC Coil Winding-CHRZANOWSKI 55 ob: 1451 - MC Coil Winding-CHRZANOWSKI 42° Station 3-Casting Prep & Winding 42° Station 4-Wind Coil A6 42° Station 1 Post VP Vind coil A6 42° Station 1 Post VP Vind Coil A6 42° Station 1 Post VP Vind Coil A6 43 P3-170 Instl Chill Plates, Tubing,Bag B6 43 P3-171C Final Clamps & Warm Test (Station1) C6 43 P3-171C Final Clamps & Warm Test (Station1) B5 16 ob: 1459 - MC Coil Fabr.Punch List-CHRZANOWSKI 10° P1TS-C3 Grinding & Drill Holes -C3 10° P1TS-C5 Grinding & Drill Holes -C3 10° P1T	IDDescriptionWork daysStatt1805S5-90Station 5 (and 3) lift fixture structures10504APR081805S5-102Hardware & Misc. items10504APR081805S5-103Misc. assembly Cost10504APR081805S5-103Misc. assembly Cost10504APR08hrzanowskistation 35517/MAR08*ob: 1408 - MC Coil Winding Supplies-CHRZANOWSKI5517/MAR08*1408-4.1Procure Strain Gages5517/MAR08*ob: 1407 - MC Coil Winding-CHRZANOWSKI42°28/MAR08AStation 3-Casting Prep & Winding42°31/AN08P1-161Wind coil A642°31/AN08Station 4-Winding, Instl Chill Plates, Tubing, Bag1601APR08P3-170Instl Chill Plates, Tubing, Bag1601APR08P3-170Final Clamps & Warm Test (Station1) B516010C707AP3-171CFinal Clamps & Warm Test (Station1) B516010C707AP1TS-C5Grinding & Drill Holes -C3102010C707AP1TS-C6Grinding ADrill Holes -C55010C707AP1TS-C6Grinding ADrill Holes -C62001APR08P1TS-C6Grinding & Drill Holes -C616010C707AP1TS-C6Grinding & Drill Holes -C618010C707AP1TS-C6Grinding & Drill Holes -C618010C707AP1TS-C6Grinding & Drill Holes -C618010C707AP1TS-C6Grinding & Drill Holes -C618010C707AP1TS-C6G	DDescriptionWord Part of an an an antipart of	D Description work Start Finith Baseline 180555-01 Station 5 (and 3) lift fixture structures 105 0/4APR08 02SEP08 02JUN08 02SEP08 02JUN08 02	10 Description Great All toture structures 100 OUAPROS Call SERIOS 025EPOS 2240 180555-102 Hardware & Masc. Items 105 OUAPROS C25EPOS 025EPOS 240 180555-102 Hardware & Masc. Items 105 OUAPROS C25EPOS 025EPOS 240 180555-103 Misc. assembly Cost 105 OUAPROS C25EPOS 025EPOS 240 1408 - MC Winding Supplies-CHRZANOWSKI 100 0UAROS 2JUINOS 170 1405 - IMOC Coil Winding-CHRZANOWSKI 300APROS 2JUNOS 170 1405 - IMOC Coil Winding-CHRZANOWSKI 300APROS 02JUNOS 170 1405 - IMOC Coil Winding-Bag BS 42 3JJANOS 300APROS 02JUNOS 170 170 Instl Chill Plates, Tubing,Bag 42 3JJANOS 3IMAROS 160 01APROS 22APROS 004MAYOS 205 1711 Final Clamps & Warm Test (Station1) CS 43 3JJANOS 3IMAROS 167 01APROS	D Description Open Age Start Finith Baseline Finith Bit all eff 2 180855-102 Hallen 6 (and 3) lift future structures 106 OdA/PR08 02SEP08 02SEP08 240 0 180855-102 Mile. assembly Cost 106 OdA/PR08 02SEP08 02SEP08 240 0 180855-102 Mile. assembly Cost 106 OdA/PR08 02SEP08 02SEP08 240 0 180855-102 Mile. assembly Cost 106 OdA/PR08 02SEP08 02SEP08 240 0 1408-4.1 Procure Strain Gages 55 17///AR08* 02JUN08 170 0 1408-5.1 Moding CHRZANOWSKI Stana 3Cassing Prep & Winding 93 0 0 0 0 171 22Z 18010 - 1101 Mile Nile Nile Plates, Tubing, Bag 42 31//AN08 31//AR08 16APR08 207 172 192170 Insit Chill Plates, Tubing, Bag 10 174/RR08 21/AR08 31/AR080 16APR08 207 <

Activity ID	Activity Description	Duratior (work	Forecast Start	Forecast Finish	Lehman Baseline	Remaining Float	slip(-)/	F MAR	_	PR	MA
hims-Outboar	d	days			Finish		ahead (+)	5 3 10 17 <u>2</u> 4	31 7 1	4 21 2	28 5
	-										
1429-3066	Outboard Shims	130	03MAR08*	03SEP08	03SEP08	90	0				
1429-3066H	Deliver 1st HP shims to PPPL	1	31JAN08*	31JAN08	31JAN08	60	0				
hims-Inboard											
1429-3062X	Inboard Shims	208	03MAR08*	02JAN09	02JAN09	74	0				
1429-3060B	PPPL water jet cut inboard shims	3	03JAN08A	05FEB08	05FEB08	52	0				
1429-3060A	PPPL mill inboard shims to thickness (for A-B)	5	06FEB08	12FEB08	12FEB08	52	0				
1429-3060D	PPPL mill inboard shims to thickness (for B-C)	10	13FEB08	26FEB08	26FEB08	93	0				
1429-3060C	PPPL anneal inboard shims	3	13FEB08	15FEB08	15FEB08	52	0				
tuds,Washers			101 2200	10/ 2200	101 2000	UL	Ū				
,		1	1	1	1						
1421-3063	Stud kits available for balance of MC assy	0		30JAN08	29FEB08	156	22				
ratton											
	lagnetic Diagnostics-STRATTON										
ogowski Coils	3										
3101-352	Assy & detail dgws	46	31JAN08	03APR08	03APR08	431	0				
3101-353	Prep installation procedure	31	04APR08		16MAY08	431	0				
3101-354	Purchase materials	62	31JAN08	25APR08	25APR08	446	0				
3101-370	Check elect characteristics of cables	503*	16APR08*	23APR10	23APR10	1,135	0				
3101-351	Wind coils	13*	31MAR08*	16APR08	16APR08	453	0				
3101-359	Install Rogowski coils (budgeted in job 1815)	21*	02APR08*	30APR08	30APR08	255	0				
F and PF Co-v											
	1										
3101-425	Design Protective boxes for PF	100*	01NOV07A		01APR08	1,558	0				
3101-426	Purchase SS Sheet	10	12NOV07A		18JUN08	320	0				
3101-452	Form Protective boxes	10	12NOV07A		23JUN08	320	0				
3101-454	Weld end plates of PF protective boxes	10	09NOV07A	30JUN08	30JUN08	320	0				
3101-427	Purchase Heat Shrink tubing	15	12NOV07A		19MAY08	1,495	0				
3101-458	FabTF,PF & solenoid co-wound loops	186	02JUL07A	15AUG08	15AUG08	1,462	0				
C and Heater	Tape Leads										
1204-140.1	Peer Review T/C and Heater Tape Leads	12	15APR08*	30APR08	30APR08	183	0				
1204-141	Drawings Signed T/C and Heater Tape Leads	0		30APR08	30APR08	183	0			7	\checkmark
1204-144	Check elect characteristics T/C & heater port 12	65	01MAY08	01AUG08	01AUG08	183	0				
oltage Loops	& Protective Boxes	1	1	I							
3101-802	Eab 2 protoctive Peyee (Lee Evisting Pey)	40	24 14 100	1055000	201441/00	4 000					
3101-802	Fab 3 protective Boxes (Use Existing Box) Check elect characteristics of coax	10 86*	31JAN08 31JAN08	13FEB08 30MAY08	30MAY08	1,682	76				
	Check elect characteristics of coax	00	3 IJANU8	30IVIA 108	13JUN08	1,606	10				
ola											
	P Assy Oversight&Support-VIOLA dures,JHA,ACC,Training,Prep										
R1802-307	Procedures written & approved	10	01APR08	14APR08	14APR08	163	0		//////////////////////////////////////		
R1802-309	JHA completed	6	15APR08	22APR08	22APR08	163	0				
R1802-311	Training needs identified & released	6	23APR08	30APR08	30APR08	163	0				
ob: 1810 - F	ield Period AssyStation 1,2,3 VIOLA										
tation 1-VV Pr	ep (hard surface components) FP#1										
R1810-1108	Perform final acceptance testing (H/C flow test)	15	26MAR08*	15APR08	15APR08	284	0				
R1810-1100	Design & Build heater& thermo termination box		06MAR08*	01MAY08		254	0				
		l		2		204	U	0.1.177777777777777777777	18111111	1	

	RBS8	NCSX Project Sheet 6 of 7 SORTED BY RLM AND JOB MANAGER
		3 week look-aheat ^{0APR08} 09:24
© Primavera Systems, Inc.		Completed Tasks Excluded

Sistem - Vol Per (bred auf angust FPE R1810-1200 Perform final acceptance testing (RVC flow ten) 32 16/8/P00 SUMA V03	Activity ID	Activity Description	Duratior (work days	Forecast Start	Forecast Finish	Lehman Baseline Finish	Remaining Float		FY08 F MAR APR 5_3_10_17_24_31_7_14_21	MA) 28 5
Battap Calibrate studiensioner 420* 31.44082 302EF00 11.47P00 12.27 -376 R1810-2007 Full Paper 20 31.44008 207EE00 16.27 6 R1810-2007 Full Paper 20 31.44008 277E600 17.2800 17.4000 17.44780	Station 1- VV Pr	ep (hrd surf cmpntsFP#2								
Interp Calibrate studiens/source 420 31.44/063 SSEEFO 101.4PR06 1.222 -376 R1810-2007 Full Paper 20 31.44/063 SSEEFO 11.42760 17.42760 7.478/06 R1810-2007 Full Paper 20 31.44/063 Starting 1,525 0 R1810-2007 Insuli THRD Holding 20 drg fisture 60 01.479(29) 14.447803 1,526 0 R1810-2007 Insuli THRD Holding 20 drg fisture 60 01.479(29) 14.447803 1,526 0 R1810-2007 Taxit As as in mil 65 31.44/067 30.479603 30.479603 1,627 0 R1810-2004 Taxit As as in mil collet set 65 31.44/067 30.479603 30.479603 30.47960 30.47960 1,627 0 R1810-2007 Coundrise resource granting machine 65 31.44/067 30.47963 30.47963 30.47960 1,627 0 R1810-2007 Coundrise resource granting machine 65 31.44/067 30.47960 30.47960 <td>-/-/-</td> <td></td> <td></td> <td>(045500</td> <td>0.01.411/00</td> <td></td> <td></td> <td></td> <td></td> <td></td>	- /-/-			(045500	0.01.411/00					
R1912-0047 Calibrate studiesoloner 420 \$1 LANU064 30SEP00 01APR08 1,272 -70 R1910-2015 2 Electric Torque wrench 56 31 LANU067 7774PR08 1,672 0 R1910-2015 2 Electric Torque wrench 56 31 LANU067 1724PR08 1,632 0 R1910-2015 Zenex trucker 10 01/APR08 1,432 0 0 R1910-2021 Reverk wedges flochloal wedge 17 31/LANU06 16,039 0 0 R1910-2021 Reverk wedges flochloal wedge 97 31/LANU07 10/LANU0 13/EB00 1,595 -87 R1910-2021 Reverk wedges flochloal wedge 65 31/LANU07 30/APR08 1,622 0 R1910-2027 Coordinate measuing machine 65 31/LANU07 30/APR08 1,627 0 R1910-2020 Parchaas granding machine 65 31/LANU07 30/APR08 1,627 0 R1910-2020 Parchaas granding machine 65 31/LANU07 30/APR08 1,627 0 S20.402 Partorm metricology actup purchase 6 plans <td></td> <td>Perform final acceptance testing (H/C flow test)</td> <td>32</td> <td>16APR08</td> <td>30MA Y08</td> <td>30MAY08</td> <td>341</td> <td>0</td> <td></td> <td></td>		Perform final acceptance testing (H/C flow test)	32	16APR08	30MA Y08	30MAY08	341	0		
R1101-0205 Pup Paper 20 31.JAN08 27.FE08 77.FE08 1,672 0 R1010-0205 2.Electric Torque werech 56 31.JAN08 17.2FE08 1,672 0 R1010-0205 Instant THED Moking 20 deg fixture 10 07.APR06 1,436 0 R1010-0207 Instant THED Moking 20 deg fixture 10 07.APR06 1,428 0 R1010-0207 Instant THED Moking 20 deg fixture 10 07.4PR06 1,428 0 R1010-0207 Taxk 3 axis mill 65 31.JAN08 20.APR06 1,612 0 R1010-0207 Taxk 3 axis mill 65 31.JAN08 20.APR06 30.APR06 1,627 0 R1010-0208 Taxk 3 axis mill 65 31.JAN08 20.APR06 30.APR06 1,627 0 R1010-0208 Texture and minito and system 65 31.JAN08 20.APR06 1,627 0 R1010-0208 Texture and minito and system 65 31.JAN09 30.APR08 1,627 0 S20.407 Congress 610 and minito and color andito and system 65 31.JAN09	etup									
R1810-2036 Full Paper 20* 31.JAN08 27FE308 77FE808 1,672 0 R1810-2037 Faster tracker 65 31.JAN08 172FR08 1,635 0 R1810-2037 Faster tracker 65 07FFR08 1,635 0 0 R1810-2037 Install THID Holding 20 deg fature 10 07APR08 1,632 0 0 R1810-2037 Faster tracker 65 07FFR08 1,612 0 0 R1810-2037 Faster tracker 65 31.AAN08 20APR08 1,612 0 R1810-2037 Convinces tracker 65 31.AAN08 20APR08 1,627 0 R1810-2036 Trak 3 ads mill 65 31.AAN08 30APR08 1,627 0 R1810-2037 Convinces tracker 65 31.AAN08 30APR08 1,627 0 R1810-2038 Parchas grinding machine 65 31.AAN08 30APR08 1,627 0 S20-10 Totak, cabinet & storge shawhing 65 31.AAN08 30APR08 1,627 0 S20-10<	R1810-2047	Calibrate stud tensioner	420*	31 14 1084	30SED00		1 272	276		
R1810-2045 2 Electric Torque wrench 56 31/AR06* 17APR06 1,636 0 R1810-2026 State er tracker 56 01/APR06* 0/APR06* 1,534 -43 R1810-2026 Liste er tracker 67 01/APR06* 0/APR06* 1,524 -43 R1810-2026 Liste er tracker 67 31/AR06* 0/APR06* 1,525 -43 R1810-2026 Liste er tracker 65 31/AR06* 0/APR06* 1,627 0 R1810-2026 Trak 3 axis mill 0.68 31/AR06* 0/APR06 0/APR08 1,627 0 R1810-2026 Trak 3 axis mill 0.68 31/AR06* 0/APR08 0/APR08 1,627 0 R1810-2026 Trak 3 axis mill colet set 65 31/AR06* 0/APR08 0/APR08 1,627 0 R1810-2026 Trak 3 axis mill machine of dishatus system 65 31/AR06* 0/APR08 1,627 0 S20-3.02 Compress 101 alms 8 sort (hild 300 alms 100 0/APR08 0/APR08 1,627 0 S20-3.02 Compress films sort by thickness 10/APR0								-370		
R1810-2080 Ind laser tracker 65 01APR08 01UL08 30APR08 1,594 -43 R1810-2020 Insall THIED Tooling 20 deg future 10 01APR08 14APR08 14APR08 1,639 0 R1810-2020 Rework wedges (fromblined assemblies& coll 97 31/AN08 62/AVR08 20APR08 1,655 -43 R1810-2022 Rework wedges (fromblined assemblies& coll 97 31/AN08 62/AVR08 30APR08 1,627 0 R1810-2025 Tak 3 ask mill 65 31/AN08 30APR08 3APR08 1,627 0 R1810-2026 Werhas egrinding machine 65 31/AN08 30APR08 3APR08 1,627 0 R1810-2020 Worhas egrinding machine 45 31/AN08 20APR08 3APR08 1,627 0 R1810-2020 Purchase grinding machine 45 31/AN08 20APR08 3APR08 1,627 0 R1810-2022 Purchase grinding machine 45 31/AN08 30APR08 1,627 2 R1810-2020 Purchase grinding machine 45 31/AN08* 30APR08							-	0		
R1810-2027 Insail THIRD Holding 20 deg fixture 10 01APR08 14APR08 1,639 0 R1810-2024 Revortwadges fixocenbined assemblies&coll 97 31/AN08 20/AN08 22/AN08 7 7 R1810-2024 Revortwadges fixocenbined assemblies&coll 97 31/AN08* 30APR08 1,612 0 R1810-2026 Concrites measuring machine 65 31/AN08* 30APR08 1,627 0 R1810-2028 Concrites measuring machine 65 31/AN08* 30APR08 1,627 0 R1810-2028 Trake aptinding machine 65 31/AN08* 30APR08 1,627 0 R1810-2028 Trakes grinding machine 65 31/AN08* 30APR08 1,627 0 S20-4.02 Perform metrology sequipt 67 01/APR08* 30APR08 1,627 2 S20-4.02 Perform metrology sequipt 67 01/APR08* 30APR08 1,427 4 S20-4.02 Perform metrology sequipt 67 01/APR08* 30APR08 1,427 2 Peremacurement of MCHP AJSLG2 flarges 31/AN08*	R1810-2045	2 Electric Torque wrench	56	31JAN08*	17APR08	17APR08	1,636	0		
R1910-2004 Design and purchase 3 additional wedge ST 31,JANOB G2,UNOB 18 0 R1910-2005 Trak 3 axis mill collet set G5 31,JANOB 30APROB 1,G12 0 R1910-2005 Trak 3 axis mill collet set G5 31,JANOB 30APROB 1,G27 0 R1910-2005 Trak 3 axis mill collet set G5 31,JANOB 30APROB 1,G27 0 R1910-2005 Trak 3 axis mill collet set G5 31,JANOB 30APROB 1,G27 0 R1910-2005 Tools, cabinet & storage shelving G5 31,JANOB 30APROB 1,G27 0 R1910-2002 Purchase grinding machine 45 31,JANOB 30APROB 1,G27 0 R1910-2002 Purchase grinding machine 45 31,JANOB 30APROB 1,G27 2 R1910-2002 Purchase grinding machine 45 31,JANOB 30APROB 1,G27 2 R20-4.01 Intal MCPh Ntures 8 17 07,JANOB 30APROB 1,G27 2 R20-4.01 Intal MCPh Ntures 10 1,JANOB 30APROB 3	R1810-2080	3rd laser tracker	65	01APR08*	01JUL08	30APR08	1,584	-43		
Remork wedges frombined assemblies col 97 3/JAN03 fo/UN35 13FEB00 1,595 -87 R1810.2005 Trak 3 axis mill 65 3/JAN06* 30APR06 1,627 0 R1810.2005 Trak 3 axis mill 65 3/JAN06* 30APR06 1,627 0 R1810.2005 Trak 3 axis mill 65 3/JAN06* 30APR06 1,627 0 R1810.2007 Coordinate measuring machine 65 3/JAN06* 30APR06 1,627 0 R1810.2007 Coix, chinets & storage shiving 65 3/JAN07* 30APR06 1,627 0 S203.02 Purchase grinding machine 45 3/JAN07* 30APR06 1,627 0 S204.01 Install MCHP fatures & metrology equipit 67 3/JAN07* 30JL08 5,522 0 0 S204.02 Perform metrology equipit 67 3/JAN08* 3/JAN08* 3/JAN08 1,627 0 0 S204.02 Perform metrology equipit 67 3/JAN08* 3/JAN08* 3/JAN08 1,627 0 0 0 S204.02	R1810-2027	Install THIRD Holding 20 deg fixture	10	01APR08*	14APR08	14APR08	1,639	0		
Pit Bio 2005 Trak 3 axis mill 65 31/JAN06" 30APR06 1,612 0 R1810-2008 Trak 3 axis mill colot set 65 31/JAN06" 30APR06 1,627 0 R1810-2008 Coordinate measuring machine 65 31/JAN06" 30APR08 1,627 0 R1810-2008 Tools, cabinets & storge shiring 65 31/JAN06" 30APR08 1,627 0 R1810-2008 Tools, cabinets & storge shiring 65 31/JAN06" 30APR08 1,627 0 R1810-2008 Tools, cabinets & storge shiring 65 31/JAN06" 30APR08 1,627 0 S20-4.01 Install MCHP fitzures & sort (hital 300 shim 420 31/JAN06" 30APR08 31/JAN06" 30APR08 1,627 0 S20-4.02 Perform metrology setup:urbase 6 pills 67 31/JAN06" 30APR08 31/JAN06" 30APR08 1,627 0 S20-4.01 Install MCHP fitzures & sort (hital 300 shim 420 31/JAN06" 30APR08 31/JAN06" 30APR08 1,627 0 S20-4.01 Install MCHP fitzures & sort (hital 300 shim 420	R1810-2084	Design and purchase 3 additional wedge	87*	31JAN08	02JUN08	02JUN08	18	0		
R1810-2085 Trak 3 axis mill 65 31/AN06" 30APR06 1,612 0 R1810-2085 Trak 3 axis mill coliet set 65 31/AN06" 30APR06 1,627 0 R1810-2087 Condinae measuing machine 65 31/AN06" 30APR08 1,627 0 R1810-2085 Condinae measuing machine 65 31/AN06" 30APR08 1,627 0 R1810-2080 Cols, cabinets & storage shrving 65 31/AN06" 30APR08 1,627 0 R1810-2082 Purchase grinding machine 45 31/AN06" 30APR08 1,627 0 S293-30 Compress 0ito shins 4 sot (hital 300 shim 407 31/AN06" 30APR08 1,627 0 S293-40 Perform metrology set-up;purchase 6 pillars 65 31/AN06" 30APR08 1,627 0 S293-40 Perform metrology set-up;purchase 6 pillars 65 31/AN06" 30APR08 1,627 0 S23-40 Compress shims sort by hickness 17 07/AR09" 31/AR08 3APR08 1,627 -0 S23-10 Compress shims sort by hickness <td>R1810-2024</td> <td>Rework wedges f/combined assemblies& coil</td> <td>97*</td> <td>31JAN08</td> <td>16JUN08</td> <td>13FEB08</td> <td>1,595</td> <td>-87</td> <td></td> <td></td>	R1810-2024	Rework wedges f/combined assemblies& coil	97*	31JAN08	16JUN08	13FEB08	1,595	-87		
R1810-2006 Trak 3 axis mill collet set 65 \$1.JAN06" 30APR08 1,627 0 R1810-2007 Cordinate measuring machine 65 31.JAN06" 30APR08 1,627 0 R1810-2008 FAP machine to deviatual system 65 31.JAN06" 30APR08 1,627 0 R1810-2008 FAP machine to deviatual system 65 31.JAN06" 30APR08 1,627 0 R1810-2008 FAP machine to deviatual system 65 31.JAN06" 30APR08 1,627 0 S20-4.01 Install MCHP fixtures & sort (hild 300 ahins 400 1/JAN06" 30APR08 1,227 4.14 S20-4.01 Install MCHP fixtures & metrology actup; purchase 6 pillar 67 3/JAN06" 30APR08 1,227 4.14 S20-4.01 Install MCHP fixtures & metrology actup; purchase 6 pillar 67 3/JAN06"	R1810-2085	Trak 3 axis mill	65	31JAN08*	30APR08	30APR08	-	0		
R1810-2087 Coordinate measuring machine 65 31./AN08* 30.APR08 16.27 0 R1810-2088 HEPA machine tool axhaust system 65 31./AN08* 30.APR08 16.27 0 R1810-2089 Toole, cabinets & storage shelving 65 31./AN08* 30.APR08 16.27 0 S20-3.03 Compress G10 shims & sort (nitial 300 shims 420* 31./AN08* 30.APR08 16.47 0 S20-4.01 Install MCHP fintures & metrology equipt 67 7 7./AN08* 30.APR08 16.07 2.22 Ter Measurement of MCHP A3.33.C3 flanges 55* 7./AN08* 30.APR08 16.08 1.4 2.22 S23-3.02 Compress shims sort by thickness 6 2.5APR08 0MAR08 14.4 2.2 S23-3.02 Compress shims sort by thickness 6 2.4APR08 0APR08 8.1 -9 S23-1.01 Verty maing MC's Of MCHP will cone together 4 16.APR08 25.APR08 1.4 22 S23-1.01 Verty maing MC's Of MCHP will cone together 4 16.APR08 25.APR08 1.6 1.6	R1810-2086	Trak 3 axis mill collet set	65	31.IAN/08*	30APR08	30APR08		0		
R1910-2088 HEPA machine tool oxhaust system 65 31/JAN08* 30APR08 1,627 0 R1910-2089 Tools, cabines & storage shelving 65 31/JAN08* 30APR08 1,627 0 R1910-2082 Purchase grinding machine 45 31/JAN08* 30APR08 02APR08 02APR08 1,647 0 S20-3.01 Compress 01 shims & sort (hit3 00 shims 420* 31/JAN08* 302Pr08 7727 -414 S20-4.01 Install MCHP fixtures & metrology equipt 67 01/APR08* 30JUR08 3JURN08 1,627 -22 Premeasurement of MCHP AJ2B.2G flanges Torress shims sort by thickness 17 07MAR08 31/MAR08 03APR08 144 22 S23-1.02 Compress shims sort by thickness 6 25APR08 25APR08 714 4 S23-1.02 Compress shims sort by thickness 6 25APR08 25APR08 714 4 S24-2.08 Measure C4 'A'' flanges 1 01APR08 21APR08 818 19 S24-2.04 Merior mainterme 'B'' coil tooling balls 1 01APR08 25APR08							-	0		
R1810-2089 Tools, cabinets & storage shelving 65 31/JAN08' 30/JAN08'		5					-			
R1810-2002 Purchase grinding machine 45 31 JAN0B 202 APR08 1,647 0 S203-03 Compress 610 shims & sort (initial 300 shims) 420° 31 JAN0B° 205EP00 07FEB06 1,222 -414 S204-02 Perform metrology equiptions 67 01APR08 30 JUL08 03 JUL08 1,627 -22 **e Measuring and flup checks ** 01APR08 30 APR08 31JAN08° 30 APR08 1,627 -22 **e Measuring and flup checks ** ** 01APR08 31JAN08° 30 APR08 1,627 -22 **e Measuring and flup checks ** ** 07 MAR08 31JAN08° 30 APR08 99 3 **e Measure of NCHP ASLB3C3 flanges ** </td <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td>		· · · · · · · · · · · · · · · · · · ·					-	-		
S20-3.01 Compress G10 a bims & sort (initial 300 shims) 420* 31/JAN0P ¹ 30/SEP00 77FEB0 1,272 414 S20-4.01 Install MCHP fixtures & metrology equipt 67 01/APR0P 30/SEP00 77FEB0 1,272 414 S20-4.02 Perform metrology set-uppurchase 6 pillars 65 31/JAN0P 30/SEP00 31/JAN0P 31/JAN0P 31/JAN0P 30/SEP00 31/JAN0P 31/JAN0P 30/SEP00 31/JAN0P 30/SEP00 31/JAN0P 31/JAN0P 31/JAN0P 31/JAN0P 30/SEP00 31/JAN0P 31/JAN0P </td <td></td> <td>· · ·</td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td>0</td> <td></td> <td></td>		· · ·					,	0		
320-4.01 install MCHP fixtures & metrology equipt 67 01APR06' 03.UL08 03.UL08 1.522 0 S20-4.02 Perform metrology set-up,purchase 6 pillars 65' 31.JAN06' 30.UL08 03.UL08 1.627 -22 Pre-Measurement of MCHP A28.2C2 flanges 17' 0/MAR08 31.MAR08 03.APR08 99 3 S23-1.01 Verify mating MC's of MCHP will come together 4 31.JAN08' 05FEB08 66MAR08 144 22 S23-1.01 Verify mating MC's of MCHP will come together 4 31.JAN08' 05FEB08 66MAR08 144 22 S23-1.01 Verify mating MC's of MCHP will come together 4 16APR08 21APR08 174 4 S24-1.01 Verify mating MC's of MCHP will come together 4 16APR08 21APR08 174 4 S24-1.01 Verify mating MC's of MCHP will come together 4 16APR08 01APR08 25APR08 174 4 S24-1.01 Verify mating MC's of MCHP will come together 1 04APR08 02APR08 18 18 18 S24-1.01 Verify mating MC's of MC	R1810-2002	Purchase grinding machine	45	31JAN08	02APR08	02APR08	1,647	0		
320-0.02 Perform metrology set-up;purchase 6 pillars 65* 31/JA/N08* 30APR08 31MAR08 1,627 -22 Pre-Measurement of MCHP A2B/32 flanges 523-302 Compress shims sort by thickness 17* 07MAR08* 31MAR08 03APR08 99 3 Pre-measurement of MCHP A2B/32 Clanges 523-302 Compress shims sort by thickness 6 25APR08* 02MAY08 21APR08 81 22 S23-302 Compress shims sort by thickness 6 25APR08* 02MAY08 21APR08 81 -9 Pre-measurement of MCHP A2BA2 Clanges 5 25APR08* 02MAY08 174 4 S24-101 Verify mating MC's of MCHP will come together 4 16APR08 21APR08 25APR08 174 4 S24-108 Measure C4*A*1 flange 8 22APR08 01MAY08 174 4 S24-16.21 Perform alignment *B* coil position coil accurately in x, y, & 1 02APR08 02APR08 18 18 18 18 18 18 18 18 18 14 14 14 14 14 14 16 14 18	S20-3.03	Compress G10 shims & sort (initial 300 shims	420*	31JAN08*	30SEP09	07FEB08	1,272	-414		
Pre-Measurement of MCHP A2,B2,C2 flanges 1/1 1/1 1/1 1/1 1/1 Pre-measurement of MCHP A2,B2,C2 flanges 17 07/MARO8* 31/MARO8* 03APR08 99 3 S22-3.02 Compress shims sort by thickness 17 07/MARO8* 31/MARO8* 03APR08 99 3 S23-101 Verify mating MC's of MCHP Will come together 4 31/JAN08 05FEB06 06MAR08 1/4 22 S23-3.02 Compress shims sort by thickness 6 25APR08* 21APR08 21A 4 4 S24-1.01 Verify mating MC's of MCHP will come together 4 16APR08 21APR08 174 4 S24-1.01 Verify mating MC's of MCHP will come together 4 16APR08 21APR08 174 4 S24-1.01 Verify mating MC's of MCHP will come together 8 22APR08 18 18 18 S24-2.21 Measure 04***** 4 02APR08 02APR08 18 18 1 2-16-2.21 Install atumina shims;studs,supernuts, wijet 1 02APR08 02APR08 18 18 18	S20-4.01	Install MCHP fixtures & metrology equipt	67	01APR08*	03JUL08	03JUL08	1,582	0		
Pre-Measuring and fitup checks Image: Compress shifts sort by thickness T/ OT/MAROB* 31/MAROB 03APR08 9.9 3 Pre measurement of MCHP A3,B3,C3 flanges 522-10.1 Compress shifts sort by thickness 6 25APR08 02MAY08 144 22 S23-3.02 Compress shifts sort by thickness 6 25APR08 02MAY08 1APR08 81 -9 Pre measurement of MCHP A4,B4.C4 flanges 6 25APR08 02MAY08 1APR08 174 4 S24-1.01 Verify mating MC's of MCHP will come together 4 16APR08 21APR08 174 4 S24-1.01 Verify mating MC's of MCHP will come together 4 16APR08 174 4 S24-1.01 Verify mating MC's of MCHP will come together 8 22APR08 174 4 S24-0.21 Measure C4 'A' flange 8 22APR08 01MAY08 174 4 S24-52 Install alumina shims;studs_supernuts, wigglet 1 07APR08 02APR08 18 18 18 18 18 18 <td>S20-4.02</td> <td>Perform metrology set-up;purchase 6 pillars</td> <td>65*</td> <td>31JAN08*</td> <td>30APR08</td> <td>31MAR08</td> <td>1,627</td> <td>-22</td> <td></td> <td></td>	S20-4.02	Perform metrology set-up;purchase 6 pillars	65*	31JAN08*	30APR08	31MAR08	1,627	-22		
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2-2-6.01Lower Type-A modular coil onto jacks324APR08*28APR0828APR088102-2-6.02Mark nose shim locations & puck locations.029APR0828APR0828APR088102-2-6.03Place initial set of alumina shims (4-8) on Type129APR0829APR0829APR088102-2-6.05Lower mating "B" coil into position.130APR0830APR0830APR08810	Station 2 MC su	bassy A2B2C2	•							
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2-2-6.05 Lower mating "B" coil into position. 1 30APR08 30APR08 30APR08 81 0	2-2-6.02	Mark nose shim locations & puck locations.	0	29APR08	28APR08	28APR08	81	0		I
	2-2-6.03	Place initial set of alumina shims (4-8) on Type	1	29APR08	29APR08	29APR08	81	0		0
	2-2-6.05	Lower mating "B" coil into position.	1	30APR08	30APR08	30APR08	81	0		
RBS8 NCSY Project Sheet 7 of 7 SORTED BY RI M AND JOB MANAGER		· · · · · · · · · · · · · · · · · · ·	1	1					<u> </u>	
RBS8 NCSY Project Sheet 7 of 7 SORTED BY RI M AND JOB MANAGER										
3 week look-ahead ^{APR08} 09:24		RBS8	1	NCSX P	roject S	Sheet 7 of 7	SORTED B	Y RLM AND	D JOB MANAGER	

Weekly Meeting Actions Tracking Log Open Action Items

Meeting				Date of	
Date	Job	Action	Responsibility	Status	Status
144/0000				1	
4/11/2008	1202/1252	Provide progress payment schedule to Strykowsky	Chrzanowski	4/11/2008	
	1302/1352	Provide progress payment schedule to Strykowsky	Chizanowski	4/11/2006	
	1416	FMEA needs to be signed	Harris/Cole	4/11/2008	Freundenberg/Batiste/Goranson need to sign
		Station 3 drawings and CSPEC	Harris/Cole	4/11/2008	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	4/11/2008	
	8203	Provide lift figure calculations to Viola	Brown	4/11/2008	
		Need real estate for Station 3 in mid-June to support and	Dudek	4/11/2008	Work with Chrzanowski and Viola to develop accelerated
		acceleration of Station 3 activities			turnover schedule
4/4/2008				1	
4/4/2000		Shortage of designers impacting scheduled work (PF1A	Chrzanowski & Williams	1/11/2008	Provide replacement designer either by hiring or utilizing
		design, FDR, Design Integration, etc.)	Harris/Cole	-1/1/2000	ORNL personnel. Dahlgren provide sketch of PF1-A
	1702/1752		Dahlgren		scheme to ORNL.
	8203				
	1501/1551	SRDs for both Coil Support Structure and Base Support	Impacting WBS	4/11/2008	Comments due back April 14th.
		Structure out for comment	Managers	4/11/2000	
	1102/1102		managoro		
		Do not have sufficient stations/ProE licenses to support	Chrzanowski	4/11/2008	Work with Computer Division to expedite procurements
		existing designers Update of SRD and resolution of PDR CHITs	Kalish	4/11/2000	Issue update of SRD and CHIT resolution by April 14th
		Notify DOE (PSO) of specific Station 3 lift requirements -	Viola		Done - continue to follow-up with PSO to ensure everything
		follow-up to informal notification given April 4th	VIDIA	4/11/2000	on track
		Resolve heating/cooling leak issues - assess issue,	Viola	4/11/2008	Only 13 of 192 hoses had leaks - will replace them.
		causes, and mitigation plans	Harris/Cole/Goranson		What is plan for addressing long-term reliability issues -
					how many can we live without? Install shields? Impact on
					He consumption? Etc.
				1	
	1806	Comments needed on Station 3 drawings	Cole, Brown, Viola, etc.	4/4/2009	Need comments
	1000	Comments needed on Station 3 drawings	Cole, brown, viola, etc.	4/4/2006	Need comments
	1806	Station 2 CSPEC in sign-off	Simmons	4/11/2008	Viola/Levine/Heitzenroeder need to sign.
		Station 5 - need progress milestones	Cole		Identify progress milestones
	1702	Base Support Dwgs comments overdue	Heitzenroeder	4/11/2008	Need comments - followup w/ reviewers, especially
					Raftopoulos
		Dimensional Control Plan for Station 3	Ellis		Need to issue for comment ASAP (NLT than 4/30/2008)
	1601-161	When will we have a PDR for the leads?	Goranson,	4/4/2008	Work with ORNL to schedule PDR (Tentatively early June).
			Heitzenroeder,		Also question about routing cooling lines. Need for bleed
			Ramakrishnan		resistors - peer review scheduled 4/4
	1354	Trim coil - plans to meet FDR date?	Kalish/viola/Neilson	4/4/2008	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	4/11/2008	Orginal delivery May 9th - however, first wedge expected
					mid-April. Follow-up with Procurement.
		Need new weld engineer	Dudek	4/11/2008	Receiving resumes