NCSX Project Meeting April 30, 2008

Background: This is a report of the Project Meeting held Wednesday, April 30th. The meeting was moved to Wednesday to permit all Job Managers to attend.

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 1:00 pm.

Meeting Minutes:

<u>Safety Briefing</u> – Mike Kalish spoke on "doing the right thing" when it relates to safety. Major messages:

- Be assertive when safety is involved don't be hesitant to stop work if you see a potential or real safety hazard
- Ensure that folks do the work right with proper regard for safety no shortcuts!

<u>Heitzenroeder (RLM)</u>

- o <u>Tom Brown (Jobs 8203/8205 Design Integration)</u> designer issues resolved.
- <u>Jim Chrzanowski Mike Kalish reporting Jobs 1302/1352</u>) PF coil procurement ready to be awarded hopefully next week after DOE review.
- Mike Cole (Jobs 1353/1416/1421/1806/12xx?).
 - O 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**)
 - o ORNL will assume responsibility for PF1a work. Cole will be job manager updated schedules (**Strykowsky**)
 - Station. 3: Forecast models & drawings approved by May 6th comments due and received by April 29th expect to issue for approval today or tomorrow to 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 (Strykowsky)

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- o Increase granularity of schedules in Jobs 1355, WBS 16 jobs. Increased granularity provided for Jobs 1806 & 1901. (**Cole**)
- WBS 16 jobs interfaces need to be defined –Stay on current course with LN2 manifolds design concept, including two-phase capability. Expect PDR on June 3rd. Need to resolve Electrical leads routing with Tom Brown (Brwon/Cole/Goranson)
- Fred Dahlgren (Jobs 1353/1501/1702)
 - o FDR for Coil Support Structure delayed until May 6th to update drawings and some analyses. (**Dahlgren**)
 - o SRDs for both Base Support Structure and Coil Support Structure revised by Fred on April 23rd –now out for signature. Simmons to follow up on where these stand (**Simmons**)
- Bob Ellis (Job 8205) Station. 3 Dimensional Control Plan draft to be issued tomorrow on Friday, May 2nd. Has potential to impact Station 3 work, especially acceleration to mitigate risks. Ellis
- Mike Kalish (Jobs 1361 & 1354):
 - No issues on TF coil schedules previous concerns about delivery of wedges appears to now be resolved.
 - o Trim coils. On schedule for May 6th FDR. Jim Sims (LANL) has agreed to participate. Procurement award now forecast for June 27th looking a feasibility of accelerating this procurement (**Neilson/Kalish**)

Larry Dudek (RLM)

- Tom Brown (Job 1803/05)
 - o Station 2: Wedges to ship May 3rd
 - o Station 3 clearance studies moved to late May.
 - Station 5 6 tooling will be delayed until FY2009, but other Station 5 work will proceed to support assembly operations and planning. 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 - now planned for Station 5.
- Mike Viola Jobs 1810/1815).
 - o 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 signed off. NCR to be prepared to document resolution of leaking hoses and larger reliability issues.
- Brent Stratton (Job 3101) installation of Rogowski loops scheduled to be completed by end of May. Need to develop work plan to complete checking of

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thermocouple leads and heater leads by end of May to support assembly operations. (**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.

Weekly Meeting Actions Tracking Log Open Action Items

Meeting				Date of	
Date	Job	Action	Responsibilty	Status	Status
4/30/2008					
		Check out thermocouple/heater leads on VVSA #1 by May 30th	Stratton/Neilson	4/30/2008	VVSA # 1 will be moved to vertical in prep for initial Station 3 work at end of May - NEED THIS WORK DONE BY THEN.
4/25/2008					
	1416	Add new task for thermal analysis of MC & LN2 cooling	Harris	4/30/2008	Will add to WAF w/o budget => accept variances. ORNL to suggest mechanism for collectiong charges for unplanned work.
4/40/0000					
4/18/2008	4000	Define with temperature and a second	0	4/05/0000	Made with Decree to define a second find DOD and deduced
	1260	Define path forward for enclosing pyrogel in nomex bats	Goranson	4/25/2008	Work with Benson to define scope of R&D needed and procredures. Provide plan and document in a WAF.
4/44/0000				1	
4/11/2008	1806	Station 3 drawings and CSPEC	Harris/Cole	4/25/2009	Forecast is now May 6th - need by them to preclude
	1000	Station 3 drawings and COI LC	Tianis/Cole	4/23/2000	impacting Station 3 schedule and potential acceleration of the schedule. Several more comments expected this week => NEED to issue soon to meet May 6th forecast.
	8203	Station 5 drawings out for review.	Brown	4/25/2008	Being reviewed
4/4/2008					
		SRDs for both Coil Support Structure and Base Support Structure out for comment	Impacting WBS Managers	4/30/2008	Revised 4/23 - now both out for signature on 4/23 - Still not <i>fully signed off. Simmons to follow up.</i>
		Resolve heating/cooling leak issues - assess issue, causes, and mitigation plans	Viola Harris/Cole/Goranson	4/30/2008	Immediate assembly issue is closed (hoses being replaced). NCR to be issued to document immediate fix and longer term reliability issue.
3/19/2008	4055	No. of any many as the form	0-1-	4/00/0000	I de action de la constant de la con
	WBS 16	Need progress milestones	Cole		Identify progress milestones (Increased granularity for Jobs 1901 & 1806 provided)
	1702	Base Support Dwgs comments overdue	Heitzenroeder	4/30/2008	Need comments - followup w/ reviewers

Date: 4/30/2008 1

Activity ID	Activity Description	Duration (work days	Forecast Start	Early Finish	* ADJUSTED * Baseline Finsih	SChedule slip (-)/ ahead (+)	Remaining Float	М	APR	MAY	JU
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rown											
ob: 8203 - D	esign Integration-BROWN										
8203FY08-1	Service routing within cryostat & TC	46*	29 FEB 08*	OPMAYO8	<i>02MAY08</i>	О	4 605				
8203FY08-2	Facility models update&integration	43	02APR08*	02JUN08	02JUN08	0	1,625				
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OD: 1302 - PI	F Design -CHRZANOWSKI										
1302-275	Resolve FDR Chits	51	22FEB08*	<i>0</i> 2MAY08	O2MAY08	0	1,255			•	
ob: 1352 - P	F Coil Procurement-CHRZANOWSKI										
PF Coil Fabricat	ion										
141-038.1	PF Conductor Delivery	105*	21F LB 08A	18JUL08	30MAY08	-34	355				
141-039	Bid & Award Materials	21	03MAR08*	31MAR08	31MAR08	-34	1,581				
141-039	PF Materials Awarded	0	W M M	31MAR08	31MAR08						
1352-100	Materials Delivery PF 4,5,6		01APR08	07JUL08	07JUL08	0	1,581	V			<u> </u>
141-035	Bid & Award PF Coil Fabrication	68 60*	07MAR08*	30MAY08	30MAY08	0	1,581				
141-035 141-035A	PF Coil Proposals Due	60,	UNIVIARUS	02APR08*	OZAPRO8*	0	303		7		
	<u> </u>	0				0	303				
141-035B	Proposal evaluation complete			16APR08*	16APR08*	0	303		_		
141-035C	SPEB Evaluation complete	0		18APR08*	18APR08*	0	303				
141-035E	DOE Approval	0		16MAY08*	16MAY08*	0	303				
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Ob: 1416 - M Top level assy m 1416-502 Analysis and clo 1416-601 1416-605 1416-606 1416-650 1416-651 ECN Modification 1416-802 1416-803 1416-804 1416-805 1416-806 Ob: 1421 - M Inboard Interface 1421-3155 Ob: 1806 - F Station 3-Modula	Layout of flux loop terminations. (move box) seout documentation Prepare EM and structural analysis of leads Prepare Type-ABC closeout documentation Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta Description of the comments ECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines ECN Mods-Revise Type B cooling lines ECN Mods-Revise DXF shim files for fab ECN Mods-Revise dox on Type A ECN Mods-Revise dwg 123-151 Lod Coil Interface Design-WILLIAMSON De-AB/BC/AA Resolve C-C shim FDR comments P Assembly specs and drawings-COLE Lar Coil to VVSA Assembly	93* 15 15 40 40 40 40 40 40 40 40 40 40 40	C2JANOSA 10APROS* O1MAYOS O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS*	27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	30APR08 29APR08 20MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	-7 -1 -1 0 0 0 0 0 0 0 0 0	1,620 1,612 1,612 1,609 1,609 1,609 1,609 1,609 1,609				
1416-502 Analysis and clo 1416-605 1416-606 1416-606 1416-650 1416-651 ECN Modification 1416-802 1416-803 1416-804 1416-805 1416-806 Ob: 1421 - Monboard Interface 1421-3155 Ob: 1806 - F Station 3-Module	Layout of flux loop terminations. (move box) seout documentation Prepare EM and structural analysis of leads Prepare Type-ABC closeout documentation Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta BECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines ECN Mods-Revise DXF shim files for fab ECN Mods-Relocate box on Type A ECN Mods-Revise dwg 123-151 Iod Coil Interface Design-WILLIAMSON PASSEMBIY SPECS and drawings-COLE To Coil to VVSA Assembly Station 3 Assembly Specification	93* 15 15 140 40 40 40 40 40 40 40 20	C2JANOSA 10APROS* O1MAYOS O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS*	27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	304PR08 294PR08 20M4Y08 27M4Y08 304PR08	-7 -1 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,620 1,612 1,612 1,609 1,609 1,609 1,609 1,609 1,609				
1416-502 Analysis and clo 1416-605 1416-606 1416-606 1416-650 1416-651 ECN Modification 1416-802 1416-803 1416-804 1416-805 1416-806 Ob: 1421 - Monboard Interface 1421-3155 Ob: 1806 - F Station 3-Module	Layout of flux loop terminations. (move box) seout documentation Prepare EM and structural analysis of leads Prepare Type-ABC closeout documentation Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta BECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines ECN Mods-Revise DXF shim files for fab ECN Mods-Relocate box on Type A ECN Mods-Revise dwg 123-151 Iod Coil Interface Design-WILLIAMSON PASSEMBIY SPECS and drawings-COLE To Coil to VVSA Assembly Station 3 Assembly Specification	93* 15 15 140 40 40 40 40 40 40 40 20	C2JANOSA 10APROS* O1MAYOS O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS* O1APROS*	27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	304PR08 294PR08 20M4Y08 27M4Y08 304PR08	-7 -1 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,620 1,612 1,612 1,609 1,609 1,609 1,609 1,609 1,609				

Activity ID	Activity Description ield Period Assembly	Duration (work days	Forecast Start	Early Finish	* ADJUSTED * Baseline Finsih	SChedule slip (-)/ ahead (+)	Remaining Float	M APR	FY08 MAY	Jl
tation 5-Final F	leid Period Assembly									
1803-509	Field period Assy Dwgs	132*	01F LB 08*	06AUG08	06AUG08	0	195			
1803-611 5.00-Final Machin	Detail dwgs ports	90	01APR08*	06AUG08	06AUG08	0	195			
			l		1	1 .1				
1803-601	Station 6 Assembly Specification	120	15APR08*	02OCT08	02OCT08	0	377	_		
1803-605	Station 6 Assembly Drawings	120	15APR08*	02OCT08	02OCT08	0	377			
ob: 1901 - S 93 - Risk Mitiga	tellarator Core Mngtt&Integr-COLE									
			001 44 50004	00 # # 00	00 # # 00	1 .1				
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*	C3MARC8*	31MAR09	31MAR09	0	169			
RISK-749	Does design meet GRD requirements for failure re	109*	25 FEB 08*	28JUL08	28JUL08	0	450			-
RISK-752	Pucks held by Nomex felt-demonstrate feasiblity	44*	<i>05</i> MAY08*	07JUL08	07JUL08	0	465			
RISK-753	Plan to minimize no. of loose components	98*	25 FEB 08*	11JUL08	11 JUL 08	0	461		-	
RISK-754	Plans for bushing removal demonstrated via mock-	98*	25 FEB 08*	11JUL08	11 JUL 08	0	461			
RISK-755	Relax fit-up tolerances on remotely handled bush	98*	25 FLB 08*	11JUL08	11JUL08	О	461			
ahlgren										
oo: 1702 - B	ase Support Struct Design-DAHLGREN									
						,				
1702-520	Final design. Assy dwgs, fab dwgs, BOMs,specs/SO	66*	01F LB 08A	O2MAYO8	30APR08	-2	241			
1702-525M	Base Support Structure FDR	0		<i>02MAY08</i>	30APR08	-2	241		$\overline{\mathbf{V}}$	
1702-530	Resolve chits, issue dwgs for fab,lssue requisit	10	<i>05</i> MAY08	16MAY08	14MAY08	-2	241		_	
1501-533 1501-533F 1501-536 1501-535	Detail CAD Drawings,BOM Integrated Stress Analysis Issue dwgs for review Develop Interfaces with cryostat	260* 176* 0	01JUN07A 01OCT07A	16JUN08 16JUN08 01APR08* 01MAY08*	16JUN08 16JUN08 01APR08* 01MAY08*	0 0 0	212 222 245 243	lacksquare	_	
1501-549	Update C.S.Support Attacgment Design	6	19MAY08	27/MAY08	27/MAY08	0	212		V	
udek	IC Interface R&D-DUDEK						: -			
Outboard Interfa	•									
1429-3030	Cryo Friction test	10	28APR08*	<i>09MAY08</i>	11APR08	-20	1,620			
lis						l				
ob: 8205 - D	imensional Control Coordin-ELLIS									
METDCP-3	Dimensional control plans for station 3	65*	31JAN08	30APR08	30APR08	0	141			
oranson										
ob: 1601 - C 61 - LN2 Distrik	coil Services Design-GORANSON pution									
191-001	Title I design WBS 161 LN2 manifolds&piping	166*	01OCT07A	02JUN08	02JUN08	О	231			
62 - Electrical L	1 1 1 1 1 1 1									
132-001	Title I design WBS 162 Coil leads	180*	03DEC07A	21AUG08	21AUG08	О	241			
1416-503C	Complete drawings of MC power cable connections	144	31JAN08*	21AUG08	31MAR08	-101	1,548			
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		S8							R	

1	Activity Description	Duration (work	Forecast Start	Early Finish	* ADJUSTED * Baseline	SChedule slip (-)/	Remaining Float	М	APR	FY08 MAY	JU	JN
alish		days			Finsih	ahead (+)						
	F Falscia dia a I/ALIOU											
TF Fabrication C	F Fabrication-KALISH											
II I abrication C	SOI III ACT											
1361C-112	Fab, Test & Deliver Coil #12	1	25APR08*	25APR08	30MAY08	24	520		0			
1361C-113	Fab, Test & Deliver Coil #13	1	19MAY08*	19MAY08	23JUN08	24	530			0		
ob: 1354 - T	rim Coil Design &Procurement-KALISH	I	I									
Trim Coil **Upda												
	1		_	1	_							
TRIM-170	Complete Trim Coil Detailed Drawings	30*	25MAR08A	O5MAYO8	07APR08	-20	246					
TRIM-200	Assy drawings & parts list	5	06MAY08	12MAY08	21APR08	-15	247					
TRIM-210	Prepare for FDR	5	29APR08	O5MAY08	28APR08	-5	246		_	_		
TRIM-220	Trim Coil + Structure FDR	1	<i>06MAY08</i>	06/VAY08	29APR08	-5	246					
TRIM-221	** Trim Coil + Structure FDR **	0		<i>06MAY08</i>	29APR08	-5	246		•			
TRIM-230	Resolve Chits	5	<i>07</i> /MAY08	13MAY08	<i>06MAY08</i>	-5	246			-		
TRIM-150	Prepare Trim Coil Procurement Spec.	19*	25MAR08*	18APR08	07APR08	-9	258	Ħ				
TRIM-160	Approve Procurement Spec	5	<i>07</i> MAY08	13MAY08	14APR08	-21	246		_			
TRIM-240	Trim Coil Procurement	25	14MAY08	18JUN08	11JUN08	-5	246					
1701-099	Cryostat-Tabletop Prototype	28	30APR08*	09JUN08	09JUN08	0	334					
1701-100	Cryostat- Conceptual Design	28 15	30APR08* 19MAY08*	09JUN08 09JUN08	09JUN08	0	334 334					
1701-100 ob: 6201 - C												
1701-100 ob: 6201 - C	Cryostat-Conceptual Design ryogenic Syst-RAFTOPOLOUS						334					
1701-100 lob: 6201 - Ci 621 - LN2 Suppl 62122-300	Cryostat-Conceptual Design ryogenic Syst-RAFTOPOLOUS ly & LN2 coil cooling supply	15	19MAY08*	COULINOS	œunæ	0	334					
1701-100 lob: 6201 - Ci 621 - LN2 Suppl 62122-300	Cryostat- Conceptual Design ryogenic Syst-RAFTOPOLOUS ly & LN2 coil cooling supply Conceptual Design	15	19MAY08*	COULINOS	œunæ	0	334					

OWI ob: 18		lek									
b: 18											
tation	803/180										
	000, 100	5- FPA Tooling/Constr-BROWN/DUDEK									
	3-Modula	r Coil to VVSA Assembly									
1803S	33-5	Analyze single point lift (proof test of support	51*	18 FEB 08A	28APR08	18APR08	-6	217			
1803S	3-6	Station 3 simulation detail model	21*	01MAY08*	<i>30MAY08</i>	30MAY08	0	194			I
18035	3-7	VV/MC clearance study (for VVSA1)	11	25APR08*	<i>09MAY0</i> 8	<i>09MAY0</i> 8	0	196			
1803S	3-7B	VV/MC clearance study (for VVSA2 and 3)	11	15MAY08*	30MAY08	30MAY08	0	1,606			
1803S	3-8	Station 3 deflection FEA study	12*	12MAY08*	28MAY08	11JUN08	10	196			_
1805S	33-2	Left side base grout plates	65	31JAN08A	30APR08	30APR08	0	201			
1805S	33-3	MCHP lift fixture frame weldment	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-4	Lift fixture mounting bracket weldments	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-5	Reworked laser frame structure	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-6	Right inboard laser frame structure	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-7	Left inboard laser frame structure	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-8	Laser screen lexan sheet (1/8 x 48" x 96")	65	31JAN08	30APR08	30APR08	0	201			
18055	3-9	Estimate for Station 2 type alignment system	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-100	Hardware & Misc items	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-110	Misc assembly Cost	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-201	MC base support system (left / rt side)	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-202	Hilman roller - 8-0T plus R & U guides	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-203	AirLoc Wedgmount Precision Levelers	65	01MAY08*	01AUG08	30APR08	-65	136			-
1805S	3-204	Lift fixture mounting bracket weldments	65	31JAN08A	30APR08	30APR08	0	201			
1805S	3-205	Estimate for Station 2 type alignment system	65	31JAN08A	30APR08	30APR08	0	201			
1803S	33-2	Updated Stations Station 5 sequence plan	43	01APR08*	30MAY08	30MAY08	0	200			
1803S	55-4	Station 5 (and 3) lift fixture structures and li	10	15APR08*	28APR08	14APR08	-10	1,629			
1803S		VV work platforms	17	<i>07</i> ///AY08	30MAY08	23MAY08	-4	323]
1803S		Station 5 support structural analysis	10	09MAY08*	22MAY08	25APR08	-19	333	_		
1803S		Station 5 FDR - Base support	22	30APR08*	<i>30MAY08</i>	23MAY08	-4	200			
1803S		Station 5 FDR - Lift fixtures, port tooling and	10	16MAY08*	30MAY08	30MAY08	0	323			
.00-Fin	nal Machin	e Assembly									
18035	66-1	Stage 6 FP support and roller system	39*	<i>05</i> //AY <i>08</i> *	27JUN08	27JUN08	0	470			_
1803\$	6-2	Spool piece support and roller system	53*	19MAY08*	01AUG08	01AUG08	0	446			
nrza	nows	ki	·								
ob: 14	408 - MC	C Winding Supplies-CHRZANOWSKI									
1408-4	4.1	Procure Strain Gages	55	17IMAR08*	02.JUN08	02JUN08	0	170			
		od Coil Winding-CHRZANOWSKI					1				
tation	3-Casting	g Prep & Winding									
P1-161	1	Wind coil A6	42*	28MAR08A	27/MAY08	27MAY08	О	93		- P	
		g, Instl Chill Plates, Tubing, Bag				1					
P3-170	n	Instl Chill Plates,Tubing,Bag B6	42	31JAN08A	30APR08	02JUN08	22	171			
. 5 110	5-VPI	orini rado, rability, bug bo	-14	3.0 1 100		4.00/400		171			
tation				1	30MAY08	0777					
Station P3-171		VPI (Station 5) B6	19	<i>05</i> MAY08*		27JUN08	20	169			

Part		Activity Description	Duration (work days	Forecast Start	Early Finish	* ADJUSTED * Baseline Finsih	SChedule slip (-)/ ahead (+)	Remaining Float	M	APR	FY08 MAY	JU
20: 1459 - Mod Coil Fabr Punch List-CHRZANOWSKI verticals Tom stocytesSA PLTS-65	station 1 Post V	Pl										
PLTS-CS Gindeling & Drill Holes - CS 139' (DICCTOTA 594-782) 7,44-782 24 1,635	P3-171C	Final Clamps & Warm Test (Station1) B5	14	22APR08*	<i>09MAY08</i>	08MAY08	-1	194		-		
PLTS-GS Grinding & Dell Hales - CS 139° (2002/020) 69°4720 7744720 24 1,635 782720 784720 784720 74 794 782720 784	ob: 1459 - M	lod Coil Fabr.Punch List-CHRZANOWSKI			•							
P. P. P. P. P. P. P. P.	unchlist Tech s	shop/RESA										
P. P. P. P. P. P. P. P.	DI TS_C5	Grinding & Drill Holes _C5	136*	01OCTOZA	18APR08	17N/ARM8	-24	1 625				
PLTS-A6								-			_	
PLITS-CG Crinding & Dill Holes - CG 20 SLAVED ZPEEZD 44ANCB 55 248 PLITS-CRIND Colt to coll filty prodifications (grinding/cp) 169 DIZCOZIA SLALED S		-										
PLTS GRIND Col to coli filiup modifications (grindinglep) 165 0/DEC07/A 34,41,03 34,41,03 0 1,563												
PLCT-A3 Peaul/measure,TC, other punch list-A3 17 25.84.07A 4FEE28 5FEE28 0 184 PLCT-A3 Peaul/measure,TC, other punch list-A3 17 25.84.07A 4FEE28 5FEE28 0 184 PLCT-A3 Peaul/measure,TC, other punch list-A3 17 25.84.07A 26.84.07A 26.84.07B 26.84.07B 0 184 PLCT-C43 Peaul/measure,TC, other punch list-C3 18 0/CCT07A 26.84.07B 26.84.07B 0 184 PLCT-C43 Peaul/measure,TC, other punch list-C4 14 25.84.07A 26.84.07B 26.84.07B 0 184 PLCT-C44 Peaul/measure,TC, other punch list-C4 14 25.84.07A 26.84.07B 0 184 PLCT-C45 Peaul/measure,TC, other punch list-C4 14 25.84.07A 26.84.07B 0 184 PLCT-C46 Peaul/measure,TC, other punch list-C5 14 0/CCT07A 26.07CB 26.07CB 0 184 PLCT-C47 Peaul/measure,TC, other punch list-C5 14 0/CCT07A 26.07CB 26.07CB 0 93 PLCT-C48 Peaul/measure,TC, other punch list-C5 18 0/CCT07A 26.07CB 26.07CB 0 93 PLCT-C5 Peaul/measure,TC, other punch list-C5 18 0/CCT07A 26.07CB 26.07CB 0 93 PLCT-C5 Peaul/measure,TC, other punch list-C5 18 0/CCT07A 26.07CB 26.07CB 0 93 PLCT-C5 Peaul/measure,TC, other punch list-C5 14 0/CCT07A 26.07CB 26.0												
PLCT-43 NeuLymeasure, TC, other punch list-A3 17 GSLLIDTA SPEERB SPEERB O 184 PLCT-64 NeuLymeasure, TC, other punch list-A6 17 GSLLIDTA GSLADTA GSLADTA GSLADTA GSLADTA O 184 PLCT-64 NeuLymeasure, TC, other punch list-B3 14 OICC/TDTA GSLADTA GSLADTA OR 184 PLCT-64 NeuLymeasure, TC, other punch list-B4 14 OICC/TDTA GSRATE GOPPEB O 184 PLCT-64 NeuLymeasure, TC, other punch list-B4 14 OICC/TDTA GSRATE GOPPEB O 184 PLCT-64 NeuLymeasure, TC, other punch list-B6 14 OICC/TDTA GSRATE GSRATE GSRATE O 184 PLCT-64 NeuLymeasure, TC, other punch list-B6 14 OICC/TDTA GSRATE GSRATE O 184 PLCT-65 NeuLymeasure, TC, other punch list-B6 14 OICC/TDTA GSRATE GSRATE O 93 PLCT-65 NeuLymeasure, TC, other punch list-B6 14 OICC/TDTA GSRATE GSRATE O 93 PLCT-66 NeuLymeasure, TC, Gother punch list-B6 14 OICC/TDTA GSRATE GSRATE O 93 PLCT-66 NeuLymeasure, TC, Gother punch list-B6 14 OICC/TDTA GSRATE GSRATE OLARS O 93 PLCT-66 NeuLymeasure, TC, GSR other punch list-B6 14 OICC/TDTA GSRATE GSRATE OLARS OS 248 PLCT-66 NeuLymeasure, TC, GSR other punch list-B6 14 OICC/TDTA GSRATE GSRATE OLARS OS 248 PLCT-66 NeuLymeasure, TC, GSR other punch list-B6 OICC/TDTA GSRATE OLARS OICC/TDTA OICC		1 " " " " " " " " " " " " " " " " " " "	100	OILLONA	3/30220	3,0000	0	1,503			-	
PLCT-64 hauLmeasure,TC, other punch list-A4 17 CBLLD/A CBLAPED 0 134 PLCT-63 hauLmeasure,TC, other punch list-A5 14 OFCCTIDA 2MAPEB 0 184 PLCT-64 hauLmeasure,TC, other punch list-A5 18 OFCCTIDA 2MAPEB 0 184 PLCT-64 hauLmeasure,TC, other punch list-A5 18 OFCCTIDA 2MAPEB 0 184 PLCT-64 hauLmeasure,TC, other punch list-A5 14 OFCCTIDA 2MAPEB 0 2MAPEB 0 184 PLCT-64 hauLmeasure,TC, other punch list-A5 14 OFCCTIDA 2MAPEB 0 2MAPEB 0 184 PLCT-64 hauLmeasure,TC, other punch list-A5 14 OFCCTIDA 2MAPEB 0 2MAPEB 0 184 PLCT-64 hauLmeasure,TC, other punch list-A5 14 OFCCTIDA 2MAPEB 0 2MAPEB 0 0 184 PLCT-65 hauLmeasure,TC, other punch list-A5 14 OFCCTIDA 2MAPEB 0 2MAPEB 0 0 39 PLCT-65 hauLmeasure,TC, other punch list-A5 14 OFCCTIDA 2MAPEB 0MAPEB 0 0 39 PLCT-65 hauLmeasure,TC, other punch list-A5 14 OFCCTIDA 2MAPEB 0MAPEB 0 0 39 PLCT-65 hauLmeasure,TC, other punch list-A5 14 OFCCTIDA 2MAPEB 0MAPEB 0MAP	uncilist coil	i edi ililida is										
PLCT-63 haut/massure, TC, other punch list-83 14 OTOCTIDR 20APR2B 0 784 PLCT-64 haut/massure, TC, other punch list-84 14 OTOCTIDR 20APR2B 0 784 PLCT-64 haut/massure, TC, other punch list-64 14 OTOCTIDR 20APR2B 0 784 PLCT-64 haut/massure, TC, other punch list-64 14 20ALUDA 20APR2B 0 20APR2B 0 784 PLCT-64 haut/massure, TC, other punch list-64 14 20ALUDA 20APR2B 20APR2B 0 184 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20CTIDB 0 0 33 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20CTIDB 0 0 33 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20CTIDB 00CTIDB 0 0 33 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20LLUDB 80LUDB 0 93 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20LLUDB 80LUDB 0 93 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20LLUDB 80LUDB 0 93 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20LLUDB 80LUDB 0 93 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20LLUDB 0 0 0 0 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20LLUDB 0 0 0 0 0 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20LLUDB 0 0 0 0 0 0 PLCT-65 haut/massure, TC, other punch list-65 14 OTOCTIDA 20LLUDB 0 0 0 0 0 0 0 0 0	PLCT-A3	Insul,measure,TC, other punch list-A3	17	05JUL07A	14 FLB 08	14 FEB 08	0	184				
PLCT-G3 Insulmeasura,TC, other punch list-G3 18 0/CC/TU/A 0/APR28 0/APR28 0 184 PLCT-B4 Insulmeasura,TC, other punch list-G4 14 0/CC/TU/A 2/APR28 2/APR28 0 184 PLCT-B4 Insulmeasura,TC, other punch list-G4 14 0/CC/TU/A 2/APR28 2/APR28 0 184 PLCT-B5 Insulmeasura,TC, other punch list-A5 14 0/CC/TU/A 0/APR28 0/APR28 0 184 PLCT-B6 Insulmeasura,TC, Steet punch list-A6 14 0/CC/TU/A 0/APR28 0/APR28 0 0 184 PLCT-B6 Insulmeasura,TC, Steet punch list-A6 14 0/CC/TU/A 0/APR28 0/APR28 0/APR28 0 93 PLCT-B6 Insulmeasura,TC, Steet punch list-B6 14 0/CC/TU/A 0/APR28 0/APR28 0/APR28 0 93 PLCT-B6 Insulmeasura,TC, Steet punch list-B6 14 0/CC/TU/A 0/APR28 0/APR28 0/APR28 0 93 PLCT-B6 Insulmeasura,TC, Steet punch list-B6 14 0/CC/TU/A 0/APR28 0/APR28 0/APR28 0/APR28 0 93 PLCT-B6 Insulmeasura,TC, Steet punch list-B6 14 0/CC/TU/A 0/APR28 0/AP	PLCT-A4	Insul,measure,TC, other punch list-A4	17	06JUL07A	05MAR08	OSMARO8	О	184				
PLCT-84 Insulmeasura, TC, other punch list-84	PLCT-B3	Insul,measure,TC, other punch list-B3	14	01OCT07A	20MAR08	20MAR08	0	184				
PLCT-C4 Insulmeasura,TC, other punch list-C4	PLCT-C3	Insul,measure,TC, other punch list-C3	18	01OCT07A	07APR08	07APR08	0	184		•		
PLCT-C4 Insufmeasure,TC, other punch list-C4 14 25LL07A (26AH/02) C5AH/02 0 184 PLCT-A5 Insufmeasure,TC, other punch list-A5 14 3DLL07A (26AH/02) C5AH/02 0 184 PLCT-A6 Insufmeasure,TC, other punch list-A6 14 0FCCTUPA (30CT02) C5CT028 0 0 93 PLCT-A5 Insufmeasure,TC, other punch list-A6 14 0FCCTUPA (30CT02) C5CT02 0 0 93 PLCT-A5 Insufmeasure,TC, other punch list-A5 14 0FCCTUPA (30CT02) C5CT02 0 0 93 PLCT-A5 Insufmeasure,TC, other punch list-C5 18 0FCCTUPA (30CT02) C5CT02 0 0 93 PLCT-A5 Insufmeasure,TC, other punch list-C5 14 0FCCTUPA (30FO02) C5CT02 0 0 93 PLCT-A5 Insufmeasure,TC, other punch list-C5 14 0FCCTUPA (30FO02) C5CT02 0 0 93 PLCT-A5 Insufmeasure,TC, other punch list-C5 14 0FCCT02 0 DLL02 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PLCT-B4	Insul,measure,TC, other punch list-B4	14	01OCT07A	21APR08	21APR08	О	184	4			
PLCT-AS Insutmeasure,TC, other punch list-AS 14 30LL07A 2MAYOB 2MAYOB 0 184 PLCT-AS Insutmeasure,TC, other punch list-AS 14 0flCCTIDA 0DCCTIB 0DCCTIB 0 0 33 PLCT-AS Insutmeasure,TC, other punch list-AS 14 0flCCTIDA 0DCCTIB 0DCCTIB 0 0 93 PLCT-AS Insutmeasure,TC, other punch list-AS 18 0flCCTIDA 0DCCTIB 0DCCTIB 0 0 93 PLCT-AS Insutmeasure,TC, other punch list-AS 18 0flCCTIDA 0BFVOXB 0PVXB 0 93 PLCT-BS Insutmeasure,TC,SG other punch list-AS 18 0flCCTIDA 0BFVOXB 0PVXB 0 93 PLCT-BS Insutmeasure,TC,SG other punch list-AS 14 0flCCTIDA 0BFVOXB 0PVXB 0 94 PLCT-CSM 1844CHARD 0CMPLTE MODULAR COIL FABRICATION 0 1844F03 0VLINDB 55 248 PLCT-CSM 1844CHARD 0CMPLTE MODULAR COIL FABRICATION 0 1844F03 0VLINDB 55 248 PLCT-CSM 1844F03 0VLINDB 55 248 PLCT-CSM 1844F03 0VLINDB 55 248 PLCT-CSM 1844F03 0VLINDB 1	PLCT-C4	Insul,measure,TC, other punch list-C4	14	25JUL07A	<i>0</i> 2MAY08	<i>0</i> 2 <i>M</i> AY08		184	4			
PLCT-86 Insulmeasure,TC,SG other punch list-86	PLCT-A5	•	14	30JUL07A	12MAY08	12MAY08	_	_	1			
PLCT-85 Insul,measure,TC, other punch list-85		•			09OCT08				4		_	
PLCT-CS Insul,measure,TC, other punch list-CS		•										
PLCT-86 Insutmeasure,TC,SG other punch list-86		•										
PLCT-C6 Insultmeasure,TC,SG other punch list-C6 14 0/0C/107/A 19/WR08 04LN08 55 248 PLCT-C8M COMPLETE MODULAR COIL FABRICATION 0 19/WR08 04LN08 55 248 PLCT-C8M COMPLETE MODULAR COIL FABRICATION 0 19/WR08 04LN08 55 248 V		•										
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Action		•		JIJOIOIA				_	7			
201 1431 - Mod. Coil Interface Hardware-DUDEK		COMPLETE MODULAR COIL FABRICATION			IdVIANUO	UUNUO	55	248				V
1429-3110 PPPL cut and grind to thickness 290° 04FEB08 31MAF09 31MAF09 0 17 1429-3066 Outboard Shims 130 03MAF08* 03SEF08 03SEF08 0 79 1429-3060X Inboard Shims 208 03MAF08* 02LAND9 0 74 1429-3060X Inboard Shims 208 03MAF08* 02LAND9 0 74 1429-3060X Inboard Shims 15 2MAY08* 02LAND9 0 74 1421-3070 Order studs & washers for c-c joint 15 2MAY08* 02LAND8 0 534 1421-3070 Order studs & washers for c-c joint 15 2MAY08* 02LAND8 0 434 1421-3070 Discretification procedure 31 04AF08* 16MAY08 16MAY08 0 431 3101-353 Prep installation procedure 31 04AF08 16MAY08 16MAY08 0 431 3101-354 Purchase materials 62 31LAND8 25AF08 25AF08 0 446 3101-370 Check elect characteristics of cables 500* 16AF08* 23AFR10 0 1,135 3101-351 Wind coils 13* 31MAF08* 16AF08 0 421	ob: 1431 - N	flod. Coil Interface Hardware-DUDEK										
1429-3010 PPPL cut and grind to thickness 290° 04FEDB 31MARQB 31MARQB 0 17 17 17 17 17 17 17	b: 1431 - N Bladders 1421-3025	Deliver remaining bladders		01APR08A					<u> </u>]	
Shims-Outboard 1429-3066 Outboard Shims	b: 1431 - N Nadders 1421-3025 1421-3028	Deliver remaining bladders		01APR08A						▼ 7] <mark>7</mark>	
1429-3066 Outboard Shims 130 03MAF08* 03SEF08 03SEF08 0 79 1429-3062X Inboard Shims 208 03MAF08* 02MAF08* 02MAF08 02MAF08 02MAF08 02MAF08 02MAF08 02MAF08 0 74 1429-3062X Inboard Shims 1421-3070 Order studs & washers for c-c joint 15 12MAY08* 02MAF08 02MAF08 0 534 1724tton 0 0 0 0 0 0 0 0 0	b: 1431 - N Nadders 1421-3025 1421-3028	Deliver remaining bladders		01APR08A					=	▼ 7]	
1429-3062X	bb: 1431 - N Bladders 1421-3025 1421-3028 Pucks	Deliver remaining bladders Bladders available	0		30APR08	18APR08	-8	106		▼ 7	J	
1429-3062X	bb: 1431 - Niladders 1421-3025 1421-3028 1429-3110	Deliver remaining bladders Bladders available PPPL cut and grind to thickness	0		30APR08	18APR08	-8	106		▼ 7	7	
1429-3062X	bb: 1431 - Niladders 1421-3025 1421-3028 tucks 1429-3110 thims-Outboard	Deliver remaining bladders Bladders available PPPL cut and grind to thickness	290*	O4FEB08	30APR08 31MAR09	18APR08 31MAR09	-8	106 17		V] ✓	
Studs, Washers, Nuts 1421-3070 Order studs & washers for c-c joint 15 12MAY08* 12LN\08 12LN\08 12LN\08 10 534 Tratton abc: 3101 - Magnetic Diagnostics-STRATTON togowski Colls 3101-352 Assy & detail dgws 46 31,JA\08 16MAY08 16MAY08 0 431 3101-353 Prep installation procedure 31 04APR08 16MAY08 16MAY08 0 431 3101-354 Purchase materials 62 31,JA\08 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 0 421 3101-357 Fab coil clamps & ends 12* 15MAY08* 12LN\08 12L\08 12LN\08 12L	bb: 1431 - Niladders 1421-3025 1421-3028 Nucks 1429-3110 ihims-Outboard	Deliver remaining bladders Bladders available PPPL cut and grind to thickness	290*	O4FEB08	30APR08 31MAR09	18APR08 31MAR09	-8	106 17		▼ \] V	
1421-3070 Order studs & washers for c-c joint 15 12MAY08* 12JUN08 12JUN08 0 534 Tratton ab: 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 0 421	bb: 1431 - Niladders 1421-3025 1421-3028 Nucks 1429-3110 ihims-Outboard	Deliver remaining bladders Bladders available PPPL cut and grind to thickness	290*	O4FEB08	30APR08 31MAR09	18APR08 31MAR09	-8	106 17		▼ \	7	
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Discription	bb: 1431 - Niladders 1421-3025 1421-3028 1429-3110 Shims-Outboard 1429-3066 Shims-Inboard 1429-3062X Studs, Washers	Deliver remaining bladders Bladders available PPPL cut and grind to thickness d Outboard Shims Inboard Shims	290° 130	04FEB08 03MAF08* 03MAF08*	30APR08 31MAR09 03SEP08 02JAN09	31MAR09 03SEP08 02JAN09	0 0	106 17 79 74		▼ \		
3101-352 Assy & detail dgws 46 31,JAN.08 03APR.08 0 431	bb: 1431 - Niladders 1421-3025 1421-3028 tucks 1429-3110 ihims-Outboard 1429-3066 ihims-Inboard 1429-3062X ituds,Washers	Deliver remaining bladders Bladders available PPPL cut and grind to thickness d Outboard Shims Inboard Shims	290° 130	04FEB08 03MAF08* 03MAF08*	30APR08 31MAR09 03SEP08 02JAN09	31MAR09 03SEP08 02JAN09	0 0	106 17 79 74		•	V	
3101-353 Prep installation procedure 31 04APR08 16MAY08 16MAY08 0 431 3101-354 Purchase materials 62 31,IAN08 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 3101-357 Fab coil clamps & ends 12* 15MAY08* 02,UN08 02,UN08 0 421	bb: 1431 - Niladders 1421-3025 1421-3028 1429-3110 Shims-Outboard 1429-3066 Shims-Inboard 1429-3062X Studs,Washers 1421-3070 Iratton	Deliver remaining bladders Bladders available PPPL cut and grind to thickness d Outboard Shims Inboard Shims Nuts Order studs & washers for c-c joint	290° 130	04FEB08 03MAF08* 03MAF08*	30APR08 31MAR09 03SEP08 02JAN09	31MAR09 03SEP08 02JAN09	0 0	106 17 79 74		•		
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3101-354 Purchase materials 62 31,JAN08 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 3101-357 Fab coil clamps & ends 12* 15MAY08* 02JUN08 02JUN08 0 421	bb: 1431 - Niladders 1421-3025 1421-3028 ucks 1429-3110 hims-Outboard 1429-3066 hims-Inboard 1429-3062X tuds,Washers 1421-3070 ratton bb: 3101 - Miogowski Coils	Deliver remaining bladders Bladders available PPPL cut and grind to thickness d Outboard Shims Inboard Shims Order studs & washers for c-c joint lagnetic Diagnostics-STRATTON	290° 130 208	04FEB08 03MAR08* 03MAR08*	30APR08 31MAR09 03SEP08 02JAN09	31MAR09 03SEP08 02JAN09	0 0	106 17 79 74 534		•		
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3101-351 Wind coils 13* 31MAR08* 16APR08 16APR08 0 453 3101-357 Fab coil clamps & ends 12* 15MAY08* 02UN08 0 421	bb: 1431 - Niladders 1421-3025 1421-3028 ucks 1429-3110 hims-Outboard 1429-3066 hims-Inboard 1429-3062X tuds,Washers 1421-3070 ratton bb: 3101 - Milogowski Coils 3101-352 3101-353	Deliver remaining bladders Bladders available PPPL cut and grind to thickness d Outboard Shims Inboard Shims Order studs & washers for c-c joint lagnetic Diagnostics-STRATTON Assy & detail dgws Prep installation procedure	290° 130 208 15 46 31	03NAR08* 03NAR08* 12NAY08* 31JAN08 04APR08	30APR08 31MAR09 03SEP08 02JAN09 02JAN09 02JAN08	18APR08 31MAR09 03SEP08 02JUN08 02JUN08	0 0 0 0	106 17 79 74 534 431 431		•		
3101-357 Fab coil clamps & ends 12* 15MAY08* 02JUN08 0 421	bb: 1431 - Naladders 1421-3025 1421-3028 ucks 1429-3110 hims-Outboard 1429-3066 hims-Inboard 1429-3062X tuds,Washers 1421-3070 ratton bb: 3101 - Naladders 3101-352 3101-353 3101-353	Deliver remaining bladders Bladders available PPPL cut and grind to thickness d Outboard Shims Inboard Shims Order studs & washers for c-c joint lagnetic Diagnostics-STRATTON Assy & detail dgws Prep installation procedure Purchase materials	290° 130 208 15 46 31 62	04FEB08 03MAR08* 03MAR08* 12MAY08* 31JAN08 04APR08 31JAN08	30APR08 31MAR09 03SEP08 02JAN09 02JAN09 02JAN09 02JAN08 16MAY08 25APR08	18APR08 31MAR09 03SEP08 02JAN09 02JAN09 02JAN08 03APR08 16WAY08 25APR08	0 0 0 0 0 0	106 17 79 74 534 431 431 446		▼ \	V	
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3101-359 Install Rogowski coils (budgeted in job 1815) 21* 02APR08* 30APR08 30APR08 0 255	bb: 1431 - Niladders 1421-3025 1421-3028 ucks 1429-3110 hims-Outboard 1429-3066 hims-Inboard 1429-3062X tuds,Washers 1421-3070 ratton bb: 3101 - Miladders 3101-352 3101-353 3101-354 3101-370 3101-351	Deliver remaining bladders Bladders available PPPL cut and grind to thickness d Outboard Shims Inboard Shims Inboard Shims Order studs & washers for c-c joint lagnetic Diagnostics-STRATTON Assy & detail dgws Prep installation procedure Purchase materials Check elect characteristics of cables Wind coils	290° 130 208 15 46 31 62 503° 13°	03/VAR08* 03/VAR08* 12/VAY08* 31,VAN08 04APR08 31,VAN08 16APR08* 31/VAR08*	30APR08 31MAR09 03SEP08 02JAN09 02JAN09 02JAN09 02JAN08 16MAY08 25APR08 23APR10 16APR08	18APR08 31MAR09 03SEP08 02JAN09 02JAN09 03APR08 16MAY08 25APR08 23APR10 16APR08	0 0 0 0 0 0 0 0	106 17 79 74 534 431 431 446 1,135 453		▼ \		
	bb: 1431 - Niladders 1421-3025 1421-3028 1429-3110 Shims-Outboard 1429-3066 Shims-Inboard 1429-3062X Studs,Washers 1421-3070 Iratton ab: 3101 - Miladders 3101-352 3101-353 3101-354 3101-354 3101-357	Deliver remaining bladders Bladders available PPPL cut and grind to thickness d Outboard Shims Inboard Shims Order studs & washers for c-c joint lagnetic Diagnostics-STRATTON Assy & detail dgws Prep installation procedure Purchase materials Check elect characteristics of cables Wind coils Fab coil clamps & ends	290* 130 208 15 46 31 62 503* 13* 12*	04FEB08 03MAR08* 03MAR08* 12MAY08* 12MAY08* 31JAN08 04AFR08 31JAN08 16AFR08* 31MAR08* 15MAY08*	30APR08 31MAR09 03SEP08 02JAN09 02JAN09 02JAN09 02JAN09 03APR08 16MAY08 25APR08 23APR10 16APR08 02JUN08	18APR08 31MAR09 03SEP08 02JAN09 02JAN09 02JAN09 03APR08 16MAY08 25APR08 23APR10 16APR08 02JUN08	0 0 0 0 0 0 0 0 0	106 17 79 74 534 431 431 446 1,135 453 421				
eet 5 of 8 28APR08 10:18 RBS8 NCSX Project SORTED BY RLM AND JOB MANAGER	bb: 1431 - Niladders 1421-3025 1421-3028 1429-3110 Shims-Outboard 1429-3066 Shims-Inboard 1429-3062X Studs,Washers 1421-3070 Iratton ab: 3101 - Miladders 3101-352 3101-353 3101-354 3101-354 3101-357	Deliver remaining bladders Bladders available PPPL cut and grind to thickness d Outboard Shims Inboard Shims Inboard Shims Order studs & washers for c-c joint lagnetic Diagnostics-STRATTON Assy & detail dgws Prep installation procedure Purchase materials Check elect characteristics of cables Wind coils Fab coil clamps & ends Install Rogowski coils (budgeted in job 1815)	290* 130 208 15 46 31 62 503* 12* 21*	04FEB08 03MAR08* 03MAR08* 12MAY08* 12MAY08* 31,JAN08 04APR08 31,JAN08 16APR08* 31MAR08* 15MAY08* 02APR08*	30APR08 31MAR09 03SEP08 02JAN09 03APR08 03APR08 03APR08 03APR08 03APR08 03APR08	18APR08 31MAR09 03SEP08 02JAN09 02JAN09 02JAN09 03APR08 16MAY08 25APR08 23APR10 16APR08 02JUN08 30APR08	0 0 0 0 0 0 0 0 0	106 17 79 74 534 431 431 446 1,135 453 421 255				

Activity ID	Activity Description	Duration (work days	Forecast Start	Early Finish	* ADJUSTED * Baseline Finsih	SChedule slip (-)/ ahead (+)	Remaining Float	М	APR	FY08 MAY	JU
F and PF Co-we	ound Loops										
3101-425	Design Protective boxes for PF	118*	01NOV07A	25APR08	01APR08	-18	1,540				
3101-426	Purchase SS Sheet	10	12NOV07A	18JUN08	18JUN08	0	1,585				
3101-452	Form Protective boxes	10	12NOV07A	23JUN08	23JUN08	0	1,585	\vdash			
3101-454	Weld end plates of PF protective boxes	10	<i>0</i> 9NO <i>V07A</i>	30/UN08	30JUN08	0	1,585	H			
3101-427	Purchase Heat Shrink tubing	15	12NOV07A	19MAY08	19MAY08	0	1,495	\vdash			
3101-428	Purchase add'l CoAxial cable	46	01MAY08*	07JUL08	07JUL08	0	1,462				
3101-458	FabTF,PF & solenoid co-wound loops	186	O2JULO7A	15AUG08	15AUG08	0	1,462	\perp			
Г/C and Heater T	ape Leads			l							
		1		1	1				7		
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				
/oltage Loops &	Protective Boxes										
3101-802	Fab 3 protective Boxes (Use Existing Box)	10	16MAY08*	30MAY08	30MAY08	О	1,606				
3101-806	Check elect characteristics of coax	86*	31JAN08	30MAY08	13JUN08	10	1,606				
iola		<u> </u>		1	<u> </u>		-,2-0				
	P Assy Oversight&Support-VIOLA										
	ures,JHA,ACC,Training,Prep										
				1							
R1802-307	Procedures written & approved	10	O1MAYO8	14MAY08	14MAY08	0	141				
R1802-309	JHA completed	6	15MAY08	22MAY08	22MAY08	0	141				
	eld Period AssyStation 1,2,3 VIOLA p (hard surface components) FP#1										
R1810-1108	Perform final acceptance testing (H/C flow test)	15	26MAR08*	15APR08	15APR08	0	284	F			
R1810-1110	Install Final Internal&Ext monuments & meas	4	01MAY08*	06MAY08	06MAY08	0	358				
R1810-1114	Install heater tape on all removable ports	25	01MAY08*	05JUN08	<i>06MAY0</i> 8	-21	248	_		-	
R1810-1100	Design & Build heater& thermo termination box	41	06MAR08*	O1MAYO8	O1MAYO8	0	254	#		=	
R1810-1101	heater& thermo termination & verification	18	<i>0</i> 2MAY08	28MAY08	28MAY08	0	254			-	
Station 1-VV Pre	ep (hrd surf cmpntsFP#2										
R1810-1208	Perform final acceptance testing (H/C flow test)	32	16APR08	30MAY08	30MAY08	О	341			<u> </u>	
R1810-1214	Install heater tape on all removable ports	25	06JUN08	11JUL08	08SEP08	40	314				
Setup				1	1		3,1				
				1							
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	Ħ		-	
R1810-2024	Rework wedges f/combined assemblies& coil handli	97*	31JAN08	16JUN08	16JUN08	0	1,595	Ħ		-	
R1810-2026	Setup up satellite shop in Mock-up area	15	31JAN08	20 713 08	22MAY08	66	1,677				
R1810-2086	Trak 3 axis mill collet set	65	31JAN08*	30APR08	30APR08	0	1,627	Ħ		•	
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 a	•										
Pre measureme 2-2-2.99	ent of MCHP A2,B2,C2 flanges Drill Stycast fill holes	3	01MAY08*	<i>05</i> ///AY08	29 FLB 08	-46	127				
S22-3.02	Compress shims sort by thickness	64	08APR08	08JUL08	08JUL08	-46	94				
	ent of MCHP A4,B4,C4 flanges	_ 	1201100	1444	1440440		94				
S24-2.08	Measure C4 "A" flange	8	22APR08*	O1MAYO8	O1MAYO8	О	174				
1	<u> </u>	1		1	1	1 -				<u> </u>	

Activity	Activity	Duration	Forecast	Early	* ADJUSTED *	SChedule	Remaining	ing FY0				
ID	Description	(work days	Start	Finish	Baseline Finsih	slip (-)/ ahead (+)	Float	М	APR	MAY	JU	
Station 2 MC sub	assy A1B1C1		·			,,						
A-B MC Assemi	bly											
2-1-6.37	Fill all loose bushings with Stycast 2850FT	6	28APR08*	<i>05</i> MAY08	21MAY08	12	37			- -		
2-1-6.38	Scan "B" flange (datum "E") of "B" coil,	1	<i>05</i> / <i>M</i> AY <i>0</i> 8	05MAY08	21MAY08	12	37			1 .		
AB-C MC Asser	mbly											
2-1-7.01	lift (A-B) coil, along with fixture, onto anot	3	<i>06MAY0</i> 8	<i>08MAY08</i>	27MAY08	12	37			-	-	
2-1-7.02	Select a subset of monuments for initial alignm	1	<i>09MAY0</i> 8	<i>0</i> 9 <i>M</i> AY <i>0</i> 8	28MAY08	12	37			0		
2-1-7.03	Align set of monuments selected in 7.02.	1	12MAY08	12MAY08	28MAY08	11	37			ı		
2-1-7.04	Establish a set of global monuments	1	13MAY08	13MAY08	28MAY08	10	37			1		
2-1-7.05	Mark nose shim locations & puck locations.	1	14MAY08	14MAY08	29MAY08	10	37			0		
2-1-7.06	Place initial set alumina shims (4-8) on Type-B	0	15MAY08	14MAY08	29MAY08	10	37			I		
2-1-7.08	Lower mating "C" coil into position.	1	15MAY08	15MAY08	30MAY08	10	37			ı	-	
2-1-7.081	Perform alignment "C" coil tooling balls	1	16MAY08	16MAY08	02JUN08	10	37			0	-	
2-1-7.09	Install jack screws & dial indicators	1	19MAY08	19MAY08	03/UN08	10	37			0		
2-1-7.10	Position coil within ±002"	1	20MAY08	20MAY08	03/UN08	9	37			ı		
2-1-7.11	Install alumina coated shims studs, & "wiggle"	1	21MAY08	21MAY08	04JUN08	9	37			ı		
2-1-7.12	Torque50% of final value.	1	22MAY08	22MAY08	04JUN08	8	37			0		
Station 2 MC sub	assy A2B2C2											
A-B MC Assemi	bly											
2-2-6.15	Recheck part alignment of "A" coil	3	01MAY08*	OSMAYO8	<i>05</i> /MAY08	0	94			=		
2-2-6.151	Weld all Type-A flex shims plasma side	2	<i>06MAY08</i>	O7MAY08	<i>07</i> /MAY08	0	94			8		
2-2-6.16	recheck alignment	1	<i>08/</i> //AY <i>0</i> 8	<i>0</i> 8/ <i>M</i> AY <i>0</i> 8	<i>08</i> ///AY08	0	94			8		
2-2-6.17	Back office assessment of part after weld	2	<i>09M</i> AY <i>0</i> 8	12MAY08	12MAY08	О	94					
2-2-6.18	Measure "B" fiducials estab coord sys	1	<i>09MAY0</i> 8	<i>0</i> 9 <i>M</i> AY <i>0</i> 8	<i>09MAY08</i>	0	95			8		
2-2-6.19	Weld all Type-B (A-flange) flex shims plasma sid	2	13MAY08	14MAY08	14MAY08	0	94			8		
2-2-6.20	Recheck part metrology acceptance criterion.	1	15MAY08	15MAY08	15MAY08	0	94			ı		
2-2-6.21	Back office assessment of part after weld	2	16MAY08	19MAY08	19MAY08	О	94					
2-2-6.22	Remove alumina shims as necessary	0	16MAY08	15MAY08	15MAY08	0	95			1		
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			1		
2-2-6.231	Perform alignment "B" coil tooling balls	1	21MAY08	21MAY08	21MAY08	0	94			ı		
2-2-6.24	"B" coil, position coil accurately in x, y, &	1	22MAY08	22MAY08	22MAY08	0	94			9		
Station 3 Setup/F	Preparations/General		<u> </u>									
Misc Prep activ	ities											
R1810-3109	Remove winding stations & enclosures	21	12MAY08*	10JUN08	09/UN08	-1	187					
R1810-3107	Test out station 3 equipment and procedures	30	21APR08*	02JUN08	02JUN08	0	193				=	
	ble Mod Coils and VVSA-FP#1											
Set-up and Prep	1		401.403.500	001 401 700	00140.00	.1				_	_	
3-1-1.01	transfer CAD models	7	19MAY08*	28MAY08	28MAY08	0	196					

