Background: This is a report of the Project Meeting held Wednesday, May 21st. 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

Meeting Minutes:

<u>Safety Briefing</u> –. Brent Stratton presented a Safety Minute on the need to extra attention to safety processes when performing non-routine work (tasks done seldom or only once in a given area). Must apply our safety tools to these tasks. Lessons learned from recent RCA violation:

- RCA established over a longer period than really needed.
- Should do a JHA in all cases.

Status of NCSX: On May 22nd, DOE released a message that specified their intention to cancel NCSX (attached). Key sentence in the message was: "A modest engineering will document the R&D achievements to date, and continue to retire remaining risks of the Compact Stellarator design to allow revisiting this particular design if future developments in the fusion program warrant it." It unknown at this time, exactly what this means for NCSX.

Heitzenroeder (RLM)

- Art Brooks (Job 8204) will defer magnetic materials study pending receipt of a facility model expect results by end of June. It was noted that Art's group has been performing unplanned and likely unbudgeted work. Art was given an action to add these tasks (i.e., scenario development, fault modes, magnetic materials studies, time constant if inconel hoses are used & insulating breaks eliminated, eddy currents, estimates to the ETC. (**Brooks**)
- <u>Tom Brown (Jobs 8203/8205 Design Integration)</u> Tom reviewed his work load and was requested to add more granularity of his WAF on the work being performed. However, to do this, more input is needed on the Cryostat and Cryosystems near term needs. (**Raftopoulos and Heitzenroeder**)
- Jim Chrzanowski Mike Kalish reporting Jobs 1302/1352) FDR CHIT resolution in progress and expect to complete next week. PF coil procurement ready to be awarded –will NOT be awarded considering decision to cancel NCSX..

- <u>Mike Cole (Jobs 1353/1416/1421/1601/1806/1260)</u>.
 - Job 1260 (NB Transition Ducts) new engineer will be assigned in next few weeks in the interim, Mike Cole will have the lead. Peer review forecast for June 23rd to address personnel access and interface issues. Need interim milestones to assess whether June 23rd date is realistic (Cole) Additionally need to get Site Protection (Jim McGuire involved Hutch will contact Jim.
 - o Jobs 1416/1421/1806/1901
 - thermal and structural analysis of MC & LN2 cooling is proceeding – expect to get EM an structural analysis to H.M Fan by end this week and cooling analysis next week.
 - Electrical lead cooling analysis schedule for May 27th is at risk due to loss of designer at ORNL however new designer onboard this week.
 - 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/Strykowsky)
 - Station. 3: Forecast models & drawings approved by May 23rd (primarily due to additional comments received from reviews). However, recent issues with Model and need to better define method to move VV in Station 3 may delay the issuance of CSPEC and drawings into next week.
 - Increase granularity of schedules in Jobs 1355. Increased granularity provided for other ORNL jobs. (Cole)
 - Good progress on retiring risk mitigation tasks (3 of 7 completed!). Related question – are there more risk mitigation tasks we should add? (Cole/Heitzenroeder)
 - Job 1601-161 (LN₂ Manifolds PDR still on track for June 2nd or 3rd. Working to establish a baseline for the PDR – SRD issued for review before Paul went on vacation. Phil in process of organizing PDR team for LN₂ manifolds (Heitzenroeder)
- Fred Dahlgren (Jobs 1353/1501/1702)
 - FDR for Coil Support Structure delayed to update drawings and some analyses – now project May 27th. (Dahlgren). Heitzenroeder finalizing reviewer list.
 - o SRD for Base Support Structure out for sign-off
 - o SRD for Coil Support Structure out for sign-off
 - FDR for Coil Support Structures due at end of June. Working on TF support brackets and integrated stress analysis. However, if active cooling becomes a requirement, then this date will be in jeopardy.
- <u>Bob Ellis (Job 8205</u>) Station. 3 Dimensional Control Plan draft issued two weeks ago. Comments were due back in May 19th. Station 2 performance okay. Plan on meeting on May 28th to discuss metrology tolerances.

- <u>Mike Kalish (Jobs 1361 & 1354)</u>:
 - Trim coils. FDR CHITs resolved and FDR report posted. However, in light of NCSX decision to cancel, will likely not award any trim coil contracts.
- Steve Raftopoulos (Jobs 1702 & 6201)
 - Contract with Bagley Associates in process placed for cryosystems support.
 - Pursuing a contract with a Cryostat expert. Requisition 406426 submitted => assuming that this work will proceed.
 - Question on whether or not we will route all leads out cyrostat can we series them internally? (Heitzenroeder set up meeting to resolve this)
 - Provide greater granularity on proposed cyrosystems work (FMEA, SRD, R&D, etc.) (Raftopoulos/Heitzenroeder). Increased granularity for Cryostat already provided.

Larry Dudek (RLM)

- Tom Brown (Job 1803)
 - Station 3 clearance studies in progress report expected at end of nexst week.
- Mike Viola Jobs 1810/1815).
 - NCR 3758 issued to resolve reliability issue on leaking hoses. Vendor has determined that the hoses do leak and nothing that PPPL did contributed to this. Assessing their inspection records, but will replace at no cost.
 - DOE review of lift procedures DOE is currently reviewing lift procedures.
- Brent Stratton (Job 3101) installation of Rogowski loops still on track to be completed by end of May. Work plan developed and being implemented to complete checking of thermocouple leads and heater leads by end of May to support assembly operations.
- Goranson (Job 12XX) need to work with Benson to define path forward for enclosing pyrogel in nomex bats. This work will start after completion of LN₂ manifolds. Assign new job to this work (**Strykowsky**)

Attachments

Notice of NCSX Cancellation

Statement by Dr. Raymond L. Orbach Under Secretary for Science and Director, Office of Science U.S. Department of Energy May 22, 2008

Future of the Princeton Plasma Physics Laboratory (PPPL)

In late 2006, it became clear that National Compact Stellarator Experiment (NCSX) construction project would not be able to meet its approved baseline total project cost of \$102M or its completion date of July 2009. Since then, DOE, Princeton University, and PPPL have worked extensively together to understand the issues and plot a course of action that maximizes the benefits for the scientific community and the taxpayers, and ensures an exciting path for PPPL research well into the future. Following several internal and external reviews over the past 18 months, it has been concluded that the budget increases, schedule delays and continuing uncertainties of the NCSX construction project necessitate its closure, and that PPPL's future as a world-leading center of fusion energy and plasma sciences is more assured by a renewed focus on the successful Spherical Torus confinement concept.

The Office of Science always weighs the scientific benefits to be obtained from facilities against the cost to the taxpayer – in this case the escalating costs and remaining uncertainties make continuation of the construction project untenable. The latest cost estimate is \$170M with an August 2013 scheduled completion. An Office of Science review (April 2008) concluded that the project has not yet met the requirements needed to approve a new baseline cost and schedule. This puts the future of research at PPPL in unnecessary peril, and increases the burden on the DOE fusion energy sciences program. It would require the premature closure of the Spherical Torus experiment (NSTX), a proven, productive, world-leading scientific facility, while creating an uncertain gap in research capabilities at PPPL. This would result in a loss of opportunities for a large number of collaborators in the research community and constrain the ability to start new initiatives during the ITER era.

The highest priority of the U.S. fusion program is participation in the international ITER burning plasma experiment, which is based on the tokamak concept. The Spherical Torus is closely related to the tokamak, and experiments planned for the next several years in the NSTX facility promise many exciting discoveries that should directly impact our ability to understand the new plasma regimes expected in ITER. The Spherical Torus may also prove to be a prototype for the next step for the U.S. domestic fusion program. Proposed upgrades for the Spherical Torus experiment at PPPL can keep this facility at the forefront of fusion science research in the world well into the future. As such, a concentration on the Spherical Torus better positions PPPL to remain a center of excellence for fusion energy and plasma sciences, and thereby compete for new areas of leadership in the future fusion program.

Closure of the Compact Stellarator construction effort will be managed to capture many benefits of the project. PPPL will complete the special modular and toroidal field coils in FY 2008. A modest engineering effort will document the R&D achievements to date, and continue to retire remaining risks of the Compact Stellarator design to allow revisiting this particular design if future developments in the fusion program warrant it. In addition, the U.S. fusion program will increase its investments in theory and smaller focused experiments on stellarator concepts to maintain its interest in future development of these exciting plasma confinement concepts.

We believe this decision is in the best interests of the American fusion program PPPL and Princeton University. Our decision reflects our strong commitment to the future of PPPL as a center of scientific excellence, including the prospect that it will compete successfully for opportunities to extend its work in plasma and fusion science in a number of important and promising new directions.

Activity ID	Activity Description	Duration (work	Forecast Start	Forecast Finish	Baseline Finish	Schedule slip to	Remaining Float	MAY	FY08 JUN	JUL
		days				baseline (work days)			9 26 2 9 16 23 30	
hil Hei	itzenroeder		1	1	I	,				
Brooks										
	Systems Analysis-BROOKS									
00.0204										
[1	1						
8204-FY08X	Systems Analysis, studies & tech assurance FY08	250*	010CT07A		30SEP08	0	1,521	╈╈╈╈╈┿┿		
1000	magnetic Material Study	0		14MAY08*		0	1,617			
Brown										
lob: 8203 -	Design Integration-BROWN									
8203FY08-2	Facility models update&integration	377*	01APR08A	30SEP09	30SEP09	0	1,272			
8203FY08-3	Cryostat design rvw & integration update	41	05JUN08*	01AUG08	01AUG08	0	1,562			
8203FY08-4	General integration activities	170*	01FEB08A	30SEP08	30SEP08	0	1,521			
Chrzanov	vski						,			
	PF Design -CHRZANOWSKI									
				1						
1302-275	Resolve FDR Chits	70*	22FEB08A	30MA Y08	02MAY08	-19	1,236			
	PF Coil Procurement-CHRZANOWSKI									
PF Coil Fabri	cation									
1352-100	Materials Delivery PF 4,5,6	69*	01APR08A	08JUL08	07JUL08	-1	1,580			
141-035E	DOE Approval	0		16MAY08*	09MAY08*	-5	303			
141-038.1	PF Conductor Delivery	105*	21FEB08A	18JUL08	18JUL08	0	356			
141-036	PF Coils Awarded	0		30MAY08*	30MAY08*	0	303			
1352-121	Design/Fab Tooling	85	02JUN08*	30SEP08	30SEP08	0	303			
141-031	Title III engr WBS 132	370	02JUN08*	19NOV09	23OCT09	-19	1,236			
Cole							,			
	NB Transition Ducts- COLE									
								<i>\///////</i>		
		_								
1260-191	Peer Review to Establish Requirements	20	27MAY08*	23JUN08	23JUN08	0	328			
1260-192	Review and Update Assbly Dwgs	20 20	27MAY08* 24JUN08	23JUN08 22JUL08	23JUN08 22JUL08	0 0	328 328			
1260-192 Job: 1416 -	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE									
1260-192 Job: 1416 -	Review and Update Assbly Dwgs									
1260-192 Job: 1416 -	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE			22JUL08						
1260-192 Job: 1416 - Analysis and	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation	20	24JUN08	22JUL08	22JUL08	0	328			
1260-192 Job: 1416 - Analysis and 1416-601	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads	20 77*	24JUN08 31JAN08A	22JUL08 16MAY08	22JUL08 30APR08	-12	328			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments	20 77* 15	24JUN08 31JAN08A 01MAY08	22JUL08 16MAY08 21MAY08 27MAY08	22JUL08 30APR08 20MAY08	0 -12 -1	328 1,615 1,612 1,609			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta	20 777* 15 18	24JUN08 31JAN08A 01MAY08 01MAY08*	22JUL08 16MAY08 21MAY08 27MAY08	22JUL08 30APR08 20MAY08 27MAY08	0 -12 -1 0	328 1,615 1,612 1,609			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651 ECN Modifica	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta ations	20 777* 15 18 18	24JUN08 31JAN08A 01MAY08 01MAY08* 01MAY08*	22JUL08 16MAY08 21MAY08 27MAY08 27MAY08	22JUL08 30APR08 20MAY08 27MAY08 27MAY08	-12 -1 0 0	328 1,615 1,612 1,609 1,609			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651 ECN Modifica 1416-801	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta ations ECN Mods-Resize vertical port boot	20 777* 15 18 18 18 40	24JUN08 31JAN08A 01MAY08 01MAY08* 01MAY08*	22JUL08 16MAY08 21MAY08 27MAY08 27MAY08 27MAY08	22JUL08 30APR08 20MAY08 27MAY08 27MAY08 27MAY08	0 -12 -1 0 0 0 -22	328 1,615 1,612 1,609 1,609 1,587			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651 ECN Modifica 1416-801 1416-802	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta ations ECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines	20 777* 15 18 18 18 40 40	24JUN08 31JAN08A 01MAY08 01MAY08* 01MAY08* 01MAY08*	22JUL08 16MAY08 21MAY08 27MAY08 27MAY08 26JUN08 26JUN08	22JUL08 30APR08 20MAY08 27MAY08 27MAY08 27MAY08 27MAY08	0 -12 -1 0 0 0 -22 -22 -22	328 1,615 1,612 1,609 1,609 1,587 1,587			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651 ECN Modifica 1416-801 1416-802 1416-803	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta ations ECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines ECN Mods-Result DXF shim files for fab	20 777* 15 18 18 18 18 40 40 40	24JUN08 31JAN08A 01MAY08 01MAY08* 01MAY08* 01MAY08* 01MAY08*	22JUL08 21MAY08 21MAY08 27MAY08 27MAY08 27MAY08 26JUN08 26JUN08	22JUL08 30APR08 20MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	0 -12 -1 0 0 0 0 2 22 -22 -22 -22	328 1,615 1,612 1,609 1,609 1,587 1,587 1,587			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651 ECN Modifica 1416-801 1416-802 1416-803 1416-803	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta ations ECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines ECN Mods-Issue DXF shim files for fab ECN Mods-Add TC's at bottom of 101,102,103 dwgs	20 777* 15 18 18 18 40 40 40 40	24JUN08 31JAN08A 01MAY08 01MAY08* 01MAY08* 01MAY08* 01MAY08* 01MAY08*	22JUL08 21MAY08 21MAY08 27MAY08 27MAY08 27MAY08 26JUN08 26JUN08 26JUN08	22JUL08 30APR08 20MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	-12 -1 -1 0 0 -22 -22 -22 -22 -22	328 1,615 1,612 1,609 1,609 1,587 1,587 1,587 1,587			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651 ECN Modifica 1416-801 1416-802 1416-803 1416-805 1416-806	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta ations ECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines ECN Mods-Revise Type B cooling lines ECN Mods-Add TC's at bottom of 101,102,103 dwgs ECN Mods-Revise dwg 123-151	20 777* 15 18 18 18 18 40 40 40	24JUN08 31JAN08A 01MAY08 01MAY08* 01MAY08* 01MAY08* 01MAY08*	22JUL08 21MAY08 21MAY08 27MAY08 27MAY08 27MAY08 26JUN08 26JUN08	22JUL08 30APR08 20MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	0 -12 -1 0 0 0 0 2 22 -22 -22 -22	328 1,615 1,612 1,609 1,609 1,587 1,587 1,587			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651 ECN Modifica 1416-801 1416-802 1416-803 1416-805 1416-806 Job: 1421 -	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta attions ECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines ECN Mods-Revise dwg 123-151 Mod Coil Interface Design-COLE	20 777* 15 18 18 18 40 40 40 40	24JUN08 31JAN08A 01MAY08 01MAY08* 01MAY08* 01MAY08* 01MAY08* 01MAY08*	22JUL08 21MAY08 21MAY08 27MAY08 27MAY08 27MAY08 26JUN08 26JUN08 26JUN08	22JUL08 30APR08 20MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	-12 -1 -1 0 0 -22 -22 -22 -22 -22	328 1,615 1,612 1,609 1,609 1,587 1,587 1,587 1,587			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651 ECN Modifica 1416-801 1416-802 1416-803 1416-805 1416-806 Job: 1421 -	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta attions ECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines ECN Mods-Revise dwg 123-151 Mod Coil Interface Design-COLE	20 777* 15 18 18 18 40 40 40 40	24JUN08 31JAN08A 01MAY08 01MAY08* 01MAY08* 01MAY08* 01MAY08* 01MAY08*	22JUL08 21MAY08 21MAY08 27MAY08 27MAY08 27MAY08 26JUN08 26JUN08 26JUN08	22JUL08 30APR08 20MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	-12 -1 -1 0 0 -22 -22 -22 -22 -22	328 1,615 1,612 1,609 1,609 1,587 1,587 1,587 1,587			
1260-192 Job: 1416 - Analysis and 1416-601 1416-606 1416-650 1416-651 ECN Modifica 1416-801 1416-802 1416-803 1416-805 1416-806	Review and Update Assbly Dwgs Mod Coil Type AB Fnl Dsn-COLE closeout documentation Prepare EM and structural analysis of leads Resolve documentation comments Prepare cooling analysis of lead area Prepare cooling analysis coefficient for cryosta attions ECN Mods-Resize vertical port boot ECN Mods-Revise Type B cooling lines ECN Mods-Revise dwg 123-151 Mod Coil Interface Design-COLE	20 777* 15 18 18 18 40 40 40 40	24JUN08 31JAN08A 01MAY08 01MAY08* 01MAY08* 01MAY08* 01MAY08* 01MAY08*	22JUL08 21MAY08 21MAY08 27MAY08 27MAY08 27MAY08 26JUN08 26JUN08 26JUN08	22JUL08 30APR08 20MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08 27MAY08	-12 -1 -1 0 0 -22 -22 -22 -22 -22	328 1,615 1,612 1,609 1,609 1,587 1,587 1,587 1,587			

Activity ID	Activity Description	Duratior (work	n Forecast Start	Forecast Finish	Baseline Finish	Schedule slip to	Remaining Float		FY08	
U	Description	days	Start	FIIIISII	FILIISII	baseline		MAY	JUN	JUL
						(work days)		85 12 19	26 2 9 16 23	30 7 14 2
NTRF-100	Misc travel, meetings, reporting, job 1416&1421	271*	01MAY07A	30MA Y08	30MAY08	0	1,606			
oh: 1901 -	Stellarator Core Mngtt&Integr-COLE		<u> </u>				.,			
	tor Core Management & Oversight									
			1	1						
1901-08	WBS 191 FY08	249*	010CT07A	29SEP08	29SEP08	0	1,522			l n
92 - Stellara	tor Core Integr & Global Analysis									
1902-08	WBS 192 FY08	240*	04007074	0005000	0005500	0	4 500			U
		249*	010CT07A	295EP08	29SEP08	0	1,522		1	
93 - RISK MI	tigation Tasks									
RISK-43	Bolt preload could relax with time.	61	03MAR08A	28JUL08	28JUL08	0	-43			
RISK-752	Pucks held by Nomex felt-demonstrate feasibility	44	05MAY08*	07JUL08	07JUL08	0	460			
RISK-755	Relax fit-up tolerances on remotely handled bush	50	25FEB08A	11JUL08	11JUL08	0	456			
RISK-696		227								
	consider a bringing all 3 120 degree field perio	221	03MAR08A	3 TMAR09	31MAR09	0	168			
	FP Assembly specs and drawings-COLE									
Mation 3-Mio	Jular Coil to VVSA Assembly									
1803-301	Station 3 Assembly Specification	224*	02JUL07A	23MAY08	30APR08	-17	161			
1803-305	Station 3 Assembly Drawings	224*	02JUL07A	23MAY08	30APR08	-17	161			
	al Field Period Assembly		02002077	2011/11/00	30AI 1100		101			
1803-501	Station 5 Assembly Specification	9*	27MAY08*	06JUN08	06JUN08	0	236			
1803-509	Field period Assy Dwgs	132*	01FEB08A	06AUG08	06AUG08	0	194			U
6.00-Final Ma	chine Assembly		1							
1803-601	Station 6 Assembly Specification	120	01MAY08*	200CT08	02OCT08	-12	360			
1803-605	Station 6 Assembly Drawings	120	01MAY08*	200CT08	02OCT08	-12	360			U J
1803-613	Detail dwgs-man access port (deleted)	0	01MAY08	30APR08	30JAN08	-65	480			
		-	011001100				100			
			0111/11/00				100			
			0 1111 1100							
1803-010	meetings,reporting,/presentations assy models	194*	31JAN08A		31OCT08	0				
1803-010	meetings,reporting,/presentations assy models		1			0				
1803-010 Dahlgren	meetings,reporting,/presentations assy models Base Support Struct Design-DAHLGREN		1			0				
1803-010 Dahlgren			1			0				
1803-010 Dahlgren Iob: 1702 -	Base Support Struct Design-DAHLGREN	194*	31JAN08A	310CT08	31OCT08		1,498			
1803-010 Dahlgren Iob: 1702 - 1702-520	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO	194* 81*	31JAN08A 01FEB08A	310CT08	310CT08 30APR08	-17	1,498			
1803-010 Dahlgren Job: 1702 - 1702-520 1702-522	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep	194* 81* 5	31JAN08A	310CT08 23MAY08 23MAY08	310CT08 30APR08 30APR08		1,498		7	
1803-010 Dahlgren Job: 1702 - 1702-520 1702-522	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR	194* 81*	31JAN08A 01FEB08A	310CT08	310CT08 30APR08	-17	1,498		7	<u></u>
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep	194* 81* 5	31JAN08A 01FEB08A	310CT08 23MAY08 23MAY08	310CT08 30APR08 30APR08	-17	1,498 221 221		7	
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M 1702-530	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR	81 [*] 5 0	31JAN08A 31JAN08A 01FEB08A 19MAY08	310CT08 310CT08 23MAY08 23MAY08 23MAY08	310CT08 30APR08 30APR08 30APR08	-17 -17 -17	1,498 221 221 221		7	<u>,</u>
1803-010 Dahlgren Job: 1702 - 1702-520 1702-522 1702-525M 1702-530	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit	81 [*] 5 0	31JAN08A 31JAN08A 01FEB08A 19MAY08	310CT08 310CT08 23MAY08 23MAY08 23MAY08	310CT08 30APR08 30APR08 30APR08	-17 -17 -17	1,498 221 221 221		7	
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M 1702-530 lob: 1501 -	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,lssue requisit Coil Structures Design-DAHLGREN	81* 5 0 10	31JAN08A 01FEB08A 19MA Y08 27MA Y08	310CT08 23MA Y08 23MA Y08 23MA Y08 09JUN08	310CT08 30APR08 30APR08 30APR08 14MAY08	-17 -17 -17 -17 -17	1,498 221 221 221 221 221		7	
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M 1702-530 lob: 1501 -	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM	81* 5 0 10 270*	31JAN08A 31JAN08A 01FEB08A 19MAY08 27MAY08 01JUN07A	310CT08 310CT08 23MAY08 23MAY08 23MAY08 09JUN08	310CT08 30APR08 30APR08 30APR08 14MAY08	-17 -17 -17 -17 -17 -17	1,498 221 221 221 221 221 221		7	
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M 1702-530 lob: 1501 - 1501-533 1501-533F	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM Integrated Stress Analysis	194* 81* 5 0 10 270* 186*	31JAN08A 01FEB08A 19MA Y08 27MA Y08	310CT08 310CT08 23MAY08 23MAY08 23MAY08 09JUN08 30JUN08 30JUN08	310CT08 30APR08 30APR08 30APR08 14MAY08 16JUN08	-17 -17 -17 -17 -17 -17 -17 -10 -10	1,498 221 221 221 221 221 221 221 221			
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M 1702-525M 1702-530 lob: 1501 - 1501-533 1501-533F	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM	81* 5 0 10 270*	31JAN08A 31JAN08A 01FEB08A 19MAY08 27MAY08 01JUN07A	310CT08 310CT08 23MAY08 23MAY08 23MAY08 09JUN08 30JUN08 30JUN08	310CT08 30APR08 30APR08 30APR08 14MAY08 14MAY08 16JUN08 16JUN08 01APR08*	-17 -17 -17 -17 -17 -17	1,498 221 221 221 221 221 221			
1803-010 Dahlgren lob: 1702 - 1702-520 1702-525 1702-525 1702-530 lob: 1501 - 1501-533 1501-533F	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM Integrated Stress Analysis	194* 81* 5 0 10 270* 186*	31JAN08A 31JAN08A 01FEB08A 19MAY08 27MAY08 01JUN07A	310CT08 310CT08 23MAY08 23MAY08 23MAY08 09JUN08 30JUN08 30JUN08	310CT08 30APR08 30APR08 30APR08 14MAY08 16JUN08	-17 -17 -17 -17 -17 -17 -17 -10 -10	1,498 221 221 221 221 221 221 221 221			
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M 1702-525M 1702-530 lob: 1501 - 1501-533 1501-533 1501-535	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM Integrated Stress Analysis Issue dwgs for review	194* 194* 81* 5 0 10 270* 186* 0	31JAN08A 31JAN08A 01FEB08A 19MAY08 27MAY08 01JUN07A	310CT08 310CT08 23MAY08 23MAY08 23MAY08 09JUN08 30JUN08 30JUN08	310CT08 30APR08 30APR08 30APR08 14MAY08 14MAY08 16JUN08 16JUN08 01APR08*	-17 -17 -17 -17 -17 -17 -10 -10 -10 -63	1,498 221 221 221 221 221 221 221 221 221 22			
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M 1702-525M 1702-533 1501-533 1501-533F 1501-535 1501-535	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM Integrated Stress Analysis Issue dwgs for review Develop Interfaces with cryostat	194* 194* 	31JAN08A 31JAN08A 01FEB08A 19MAY08 27MAY08 27MAY08 01JUN07A 01JUN07A	310CT08 310CT08 23MAY08 23MAY08 23MAY08 09JUN08 30JUN08 30JUN08 30JUN08*	310CT08 30APR08 30APR08 30APR08 14MAY08 16JUN08 16JUN08 01APR08* 01MAY08*	-17 -17 -17 -17 -17 -17 -10 -10 -10 -63 -20	1,498 221 221 221 221 221 221 211 211 211 21			
1803-010 Dahlgren Iob: 1702 - 1702-520 1702-525 1702-525 1702-525 1702-530 Iob: 1501 - 1501-533 1501-535 1501-549 1501-550	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM Integrated Stress Analysis Issue dwgs for review Develop Interfaces with cryostat Update C.S.Support Attacgment Design	194* 194* 81* 5 0 10 270* 186* 0 0 0 6	31JAN08A 31JAN08A 01FEB08A 19MA Y08 27MA Y08 01JUN07A 010CT07A 010CT07A	310CT08 310CT08 23MAY08 23MAY08 23MAY08 09JUN08 30JUN08 30JUN08 30JUN08 30JUN08 30JUN08	310CT08 30APR08 30APR08 30APR08 14MAY08 16JUN08 16JUN08 01APR08* 01MAY08* 27MAY08	-17 -17 -17 -17 -17 -17 -10 -10 -63 -20 0	1,498 221 221 221 221 221 221 211 211 211 21			
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M 1702-525M 1702-530 lob: 1501 - 1501-533 1501-535 1501-535 1501-535 1501-554	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM Integrated Stress Analysis Issue dwgs for review Develop Interfaces with cryostat Update C.S.Support Attacgment Design Peer review C.S.Design	194* 194* 81* 5 0 10 10 270* 186* 0 0 0 6 5	31JAN08A 31JAN08A 01FEB08A 19MAY08 27MAY08 27MAY08 01JUN07A 010CT07A 010CT07A 19MAY08 28MAY08	310CT08 310CT08 23MAY08 23MAY08 23MAY08 23MAY08 30JUN08 30JUN08 30JUN08* 30JUN08* 30JUN08 27MAY08	31OCT08 30APR08 30APR08 30APR08 14MAY08 16JUN08 16JUN08 01APR08* 01MAY08* 27MAY08 03JUN08	-17 -17 -17 -17 -17 -17 -10 -10 -63 -20 0 0 0	1,498 221 221 221 221 221 221 211 211 211 21			
1803-010 Dahlgren Job: 1702 - 1702-520 1702-522 1702-525M 1702-525M 1702-533 1501-533 1501-533 1501-535 1501-535 1501-549 1501-554 1501-554	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM Integrated Stress Analysis Issue dwgs for review Develop Interfaces with cryostat Update C.S.Support Attacgment Design Peer review C.S.Design Resolve CS peer review Chits Prepare Specs for Coil Structure & CSS h/w	194* 194* 81* 5 0 100 270* 186* 0 0 0 0 5 5 186* 0 10 270* 186* 0 10 114	31JAN08A 31JAN08A 01FEB08A 19MAY08 27MAY08 27MAY08 01JUN07A 010CT07A 010CT07A 19MAY08 28MAY08 28MAY08 11JUN08	310CT08 310CT08 23MAY08 23MAY08 23MAY08 23MAY08 09JUN08 30JUN08 30JUN08 30JUN08 27MAY08 27MAY08 03JUN08	310CT08 30APR08 30APR08 30APR08 30APR08 14MAY08 16JUN08 16JUN08 01APR08* 01MAY08* 27MAY08 03JUN08 30JUN08	-17 -17 -17 -17 -17 -17 -10 -10 -63 -20 0 0 0 0 0 0 0 0 0 0 0	1,498 221 221 221 221 221 221 211 211 211 21			
1803-010 Dahlgren lob: 1702 - 1702-520 1702-522 1702-525M 1702-530	Base Support Struct Design-DAHLGREN Final design. Assy dwgs, fab dwgs, BOMs,specs/SO FDR Prep Base Support Structure FDR Resolve chits, issue dwgs for fab,Issue requisit Coil Structures Design-DAHLGREN Detail CAD Drawings,BOM Integrated Stress Analysis Issue dwgs for review Develop Interfaces with cryostat Update C.S.Support Attacgment Design Peer review C.S.Design Resolve CS peer review Chits	194* 196* 196* 195* 195* 	31JAN08A 31JAN08A 01FEB08A 19MAY08 27MAY08 27MAY08 01JUN07A 010CT07A 010CT07A 19MAY08 28MAY08 04JUN08	310CT08 310CT08 23MAY08 23MAY08 23MAY08 09JUN08 30JUN08 30JUN08 30JUN08 30JUN08 27MAY08 03JUN08	31OCT08 30APR08 30APR08 30APR08 14MAY08 16JUN08 16JUN08 01APR08* 01MAY08* 27MAY08 03JUN08	-17 -17 -17 -17 -17 -17 -10 -10 -10 -63 -20 0 0 0 0 0 0	1,498 221 221 221 221 221 221 211 211 211 21			

[©] Primavera Systems, Inc.

Activity ID	Activity Description	Duratior (work days	Forecast Start	Forecast Finish	Baseline Finish	Schedule slip to baseline	Remaining Float	MAY	FY08 JUN JUL
		,.				(work days)		8 5 12 19	9 26 2 9 16 23 30 7 14
udek	MC Interface R&D-DUDEK								
	rface-Friction								
	Γ		1	1					
1429-3030	G-10 Test	12	01MAY08*	16MAY08	09MAY08	-5	1,615		
Ilis									
	Dimensional Control Coordin-ELLIS								
station 3-IMOD	ular Coil to VVSA Assembly								
METDCP-3	Dimensional control plans for station 3	74*	01FEB08A	14MAY08	30APR08	-10	168		
STAT3 PREP	Station 3 preparations	30	01MAY08	12JUN08	09JUN08	-3	166		
			1	1	1. J	I	I		
METFY08R	Support FPA Station 2	442*	04550004	021/01/00	001101/00	0	1 0 40		
		442	01FEB08A	02100009	02NOV09	0	1,249		
oranson									
0D: 1601 - 61 - LN2 Dist	Coil Services Design-GORANSON								
191-001	Title I design WBS 161 LN2 manifolds&piping	86*	01FEB08A	02JUN08	02JUN08	0	230	 	
162-201	Layout distribution system header geometry&locat	0		09MAY08*	09MAY08*	0	245		
62-209	Perform thermohydraulic analyses	0		16MAY08*	16MAY08*	0	240		
162-211	Design hose electric break fittings	0		23MAY08*	23MAY08*	0	235		
162-213	Route MC, TF, PF hoses	0		30MAY08*	30MAY08*	0	231		$\mathbf{\nabla}$
62-215	Develop SRD	0		23MAY08*	23MAY08*	0	235		7
91-002	Coil Serv-LN2 manifolds&piping-PDR (incl SRD)	1	03JUN08	03JUN08	03JUN08	0	230		
62-011A	R&D pressure drop simulation	15	04JUN08	24JUN08	24JUN08	0	280		
62-217	PDR	0		03JUN08	03JUN08	0	230		
61-003	Resolve PDR comments	5	04JUN08	10JUN08	10JUN08	0	230		
61-004	Update cost estimate for Coil Services	0		30JUN08*	30JUN08*	0	260		
191-011	Title II design WBS 161 LN2 manifolds&piping	60	11JUN08	04SEP08	04SEP08	0	230		
161-110	Fabrication specifications	65	05JUN08	05SEP08	05SEP08	0	230		
161-100	meetings/reporting/presentations	267	01FEB08A	24FEB09	24FEB09	0	1,425		
62 - Electrica	I Leads								
1416-503C	Complete drawings of MC power cable connections	95*	01FEB08A	13JUN08	31MAR08	-53	288		
161-209	Route MC leads	0		13JUN08*	13JUN08*	0			
32-001	Title I design WBS 162 Coil leads	143*	01FEB08A	-	21AUG08	0			
61-203	Layout MC stubs, terminations	0		09MAY08*		0			
161-205	Determine lead gauges	0			16MAY08*	0			
161-207	Locate Thermal Transition Boxes (TTB)	0		09JUN08*	09JUN08*	0			
162-100	meetings/reporting/presentations	201*	01FEB08A		12NOV08	0			
eitzenro					12110100		.,		
	Engr Mgmt & Sys Eng Sprt-HEITZENROED								
	5 5 6 7 5 7 7								
3205DC	document control & admin support	967*	01FEB08A	13DEC11	13DEC11	0			
3205FY08.2	Engr mgt & systems engr FY08	170*	01FEB08A	30SEP08	30SEP08	0	1,521		
alish									
	TF Fabrication-KALISH								
F Little III and	I Fabrication Oversight								
									1,
131-033C	Title III engr,inspection, support	214*	02JAN08A	300CT08	30OCT08	0	1,499		

Activity	Activity	Duration	Forecast	Forecast	Baseline	Schedule	Remaining		FY	08
ID	Description	(work days	Start	Finish	Finish	slip to baseline	Float	MAY	, Jn	JN JUL
		uujo				(work days)		8 5 12 1	9 26 2 9	16 23 30 7 14
TF Fabrication	Contract									
1361C-113	Fab, Test & Deliver Coil #13	1	16MAY08*	16MAY08	16MAY08	0	531			
	Fab, Test & Deliver Coil #14	1	10JUN08*	10JUN08	10JUN08	0				
	Trim Coil Design & Procurement-KALISH		10001100	10001100	10301400		337			
	dated estimate**									
op										
TRIM-120	Modifications to allow for mid-plane coils	100*	25MAR08A	13AUG08	13AUG08	0	331			
TRIM-160	Approve Trim Coil Procurement Spec	7*	01MAY08	09MAY08	25APR08	-10	233			
TRIM-200	Structure Assy drawings & parts list	39*	01APR08A	23MAY08	14MAY08	-7	223			
TRIM-240	Trim Coil Procurement time	29	16MA Y08A	07JUL08	19JUN08	-11	223			
Perry										
	Base Support Proc-PERRY									
	poort Structure									
	•			1						
161-038	Title III	306	10JUN08*	28AUG09	05AUG09	-17	1,294			î
Job: 8215 P	lant Design									
FY07 Rebaseli	ne Exercise									
8210-08	Plant Design	746*	01FEB08A	31JAN11	24 14 144		0.45			
	-	740	UTFEBU8A	3 IJAN I I	31JAN11	0	945			
Raftopolo										
Job: 1701 - (Cryostat Design									
1701-090	Cryostat Configuration Peer Review	0		21MAY08*	21MAY08*	0	247			
	Cryostat Consultant/Expert Award Contract	0		23MAY08*		0				
	Design PPPL prototype	5	19MAY08*	23MAY08		0			¥ l	
	Design ORNL prototype	5	19MAY08*	23MAY08		0				
	Procure materials for PPPL prototype	7	14MAY08A			0				
	Procure material for ORNL prototype	7	14MAY08A			0	223			
	Fabricate prototype PPPL	10	27MAY08	09JUN08		0	222			
1701-170	fabricate prototype ORNL	10	27MAY08	09JUN08		0	222			
1701-180	Develop test criteria	5	27MAY08	02JUN08		0	227]	
1701-190	Test PPPL prototype warm	3	10JUN08	12JUN08		0	222			
1701-200	Test ORNL prototype warm	3	10JUN08	12JUN08		0	222			
1701-210	Test PPPL prototype cold	10	13JUN08	26JUN08		0	222			
1701-220	Test ORNL prototype cold	10	13JUN08	26JUN08		0	222			
1701-240	SRD Draft	2	01JUL08	02JUL08		0				
1701-280	Requirement document approved	0		02JUL08		0				Ť.
	Review of current baseline cryo system dsn	0			10JUN08*	0				V
	Review of alternate cryo system design	0		30JUN08*	30JUN08*	0			┦│♥	
	Decide on Cryostat Concept	0						//////		
	· ·	-		02JUL08*	02JUL08*	0		<i> </i>		
	Update cost estimate for Cryostat & cryo systems	0		02JUL08	02JUL08	0				V
	FMECA Draft	11	09MAY08A	15MAY08		0				
	Interface Document Draft	6	22MAY08*	30MA Y08		0	-		µ	
1701-100	Cryostat- Conceptual Design	40	03JUL08		11AUG08	-13	218			
	INTEGRATED CRYO SYSTEMS CDR (wbs 16,17,62)	0		28AUG08	11AUG08	-13	218			
1701-100M	Cryostat- Preliminary design	91	29AUG08	16JAN09	19DEC08	-13	218			
		0		16JAN09	19DEC08	-13	218			
1701-101	INTEGRATED CRYO SYSTEMS- PDR (incl SRD)	U			1			//////	1	
1701-101 1701-121	INTEGRATED CRYO SYSTEMS- PDR (incl SRD) Cryostat- Final Design	107	19JAN09	17JUN09	29MAY09	-13	218	//////		
1701-101 1701-121 1701-131			19JAN09	17JUN09 17JUN09	29MAY09 29MAY09	-13 -13				
1701-101 1701-121 1701-131	Cryostat- Final Design	107	19JAN09 27MAY08*		29MAY09		218			

	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	Baseline Finish	Schedule slip to baseline (work days)	Remaining Float	MAY 85 12 19 2	FY08 JUN 26 2 9 16 23	JUL 30 7 14 21 2
175	51-170	Cryostat & Cryogenic systems oversight&reporting	418*	01FEB08A	29SEP09	29SEP09	0	1,273			
175 Jok	o: 6201 - (Cryogenic Syst									
621	- LN2 Sup	ply & LN2 coil cooling supply									
621	122-300	Conceptual Design	71	01MAY08*	11AUG08	11AUG08	0	325			
621	122-308	Update cost estimate for Cryogenic systems	0		30JUN08*	30JUN08*	0	354		7	▼
620	01-169	Cryogenic consultant (Vic Garzotto)	493	01MAY08*	26APR10	26APR10	0	1,134			
623	- GN2 Cryo	ostat Cooling System				L.	1			-	
623	3-099	GN2 Cryostat Cooling Sys Conceptual design	71	01MAY08*	11AUG08	11AUG08	0	231			

Sheet 5 of 12	20MAY08 11:31
© Pri	mavera Systems, Inc.

084R

Activity ID	Activity Description	Duration (work	Forecast Start	Forecast Finish	Baseline Finish	Schedule slip to	Remaining Float	MA	Y	FY08 JUN	JUL
		days				baseline (work days)				2 9 16 23	
arry Du	Idek	I		1		,					
rown											
	305- FPA Tooling/Constr-BROWN										
	ular Coil to VVSA Assembly										
				1							
	Generate laser screen trace drawings (3 periods)	15	28MAY08	17JUN08	12JUN08	-3					
	Station 3 simulation detail model	21*	01MAY08A		30MAY08	0					
	VV/MC clearance study (for VVSA1)	29*	01APR08A		09MAY08	0			2		
	VV/MC clearance study (for VVSA 2 and 3)	11	15MAY08*	30MA Y08	30MAY08	0	.,				
	Station 3 deflection FEA study	12	12MAY08		28MAY08	0				7	
	Complete station 3 design & analysis	0			30MAY08	0					
	Oversite, cost and schedules, reviews	171*	31JAN08A	30SEP08	30SEP08	0	1,521				
	Left side base grout plates	49*	24MAR08A		30APR08	-21	173				
	MCHP lift fixture frame weldment	49*	24MAR08A	30MAY08	30APR08	-21	173				
	Lift fixture mounting bracket weldments	49*	24MAR08A		30APR08	-21	173				
	Reworked laser frame structure	49*	24MAR08A	30MA Y08	30APR08	-21	173				
1805S3-6	Right inboard laser frame structure	49*	24MAR08A	30MA Y08	30APR08	-21	173				
1805S3-7	Left inboard laser frame structure	49*	24MAR08A		30APR08	-21	173				
1805S3-8	Laser screen lexan sheet (1/8 x 48" x 96")	49*	24MAR08A	30MA Y08	30APR08	-21	173	<u> </u>			
1805S3-9	Estimate for Station 2 type alignment system	49*	24MAR08A	30MA Y08	30APR08	-21	173				
1805S3-100	Hardware & Misc items	49*	24MAR08A	30MA Y08	30APR08	-21	173				
1805S3-110	Misc assembly Cost	49*	24MAR08A	30MA Y08	30APR08	-21	173		4 -		
1805S3-201	MC base support system (left / rt side)	49*	24MAR08A	30MA Y08	30APR08	-21	173				
1805S3-202	Hilman roller - 8-0T plus R & U guides	49*	24MAR08A	30MA Y08	30APR08	-21	173		4 0		
1805S3-203	AirLoc Wedgmount Precision Levelers	49*	24MAR08A	30MA Y08	04AUG08	45	173				
1805S3-204	Lift fixture mounting bracket weldments	49*	24MAR08A	30MA Y08	30APR08	-21	173				
1805S3-205	Estimate for Station 2 type alignment system	49*	24MAR08A	30MA Y08	30APR08	-21	173				
1805S3-206	Hardware & Misc items	49*	24MAR08A	30MA Y08	30APR08	-21	173				
1805S3-207	Misc assembly Cost	171*	31JAN08A	30SEP08	30APR08	-106	1,521		<u> </u>		U
Station 5-Final	Field Period Assembly										
1803S5-14	Oversite, cost and schedules, reviews	170	01MAY08*	09JAN09	29SEP08	-65	1,457				U
	hine Assembly		01101A100	03541105	293EF00	-00	1,437				
1803S6-1	Stage 6 FP support and roller system	187*	01APR08A	02JAN09	25SEP08	-62	341		<u> </u>		1 _1
hrzanow	ski										
ob: 1408 - I	MC Winding Supplies-CHRZANOWSKI										
1408-3	Misc and safety supplies (\$7k/mo.)	276*	23MAY07A	30JUN08	30JUN08	0	1,585				
1408-6	VPI clean manifold contract	276*	23MAY07A		30JUN08	0	,				
	Cutting hardware for flange bolts	276*	23MAY07A		30JUN08	0	,				
1408-7	Misc tech shop support	276*	23MA Y07A		30JUN08	0	.,				
ob: 1451 - I	Mod Coil Winding-CHRZANOWSKI						.,		<u> </u>		
	ing Prep & Winding										
	Wind coil A6	35*	28MAR08A		27MAY08	7	122				
	Instl Chill Plates,Tubing,Bag A6	32*	16MAY08	01JUL08	29JUL08	19	122				<u></u>
Station 1 Post	VPI										
	Final Clamps & Warm Test (Station1) B5	38*	19MAR08A	09MAY08	13MAY08	2	199				
P3-171C								<u> </u>			
	Final Clamps & Warm Test (Station1) B6	16	01MAY08	22MAY08	23JUN08	21	181				

Activity	Activity	Duration	Forecast	Forecast	Baseline	Schedule	Remaining		FY08	
ID	Description	(work days	Start	Finish	Finish	slip to baseline	Float	MAY	JUN	JUL
		uayo				(work days)		85 12 19 2	26 2 9 16 23	30 7 14 21
LOE Oversigh	t & Supervision									
145XSPRV-2	Winding Engineering oversight and supervision	314*	01MAY07A	21 11 11 00	24 11 11 00	0	1 562			U
					31JUL08		.,			
	Winding Engineering oversight and supervision	356*	01MAY07A		30SEP08	0	.,			
	Winding Engineering oversight and supervision	185*	01NOV07A	31JUL08	31JUL08	0	1,563		_	
	Mod Coil Fabr.Punch List-CHRZANOWSKI									
Punchlist Tecl	h snop/RESA									
PLTS-C5	Grinding & Drill Holes -C5	22*	01MAY08	02JUN08	18APR08	-30	271			
PLTS-A5	Grinding -A5	23*	01MAY08	03JUN08	31JAN08A	-87	183			
PLTS-B5	Grinding -B5	5	04JUN08	10JUN08	20MAY08	-14	183			
PLTS-A6	Grinding -A6	5	010CT07A		19SEP08	19				
PLTS-B6	Grinding -B6	5	23MAY08		30JUN08	21	181			
PLTS-C6										
	Grinding & Drill Holes -C6	20	01MAY08		27FEB08	-65	182		1	U
	Coil to coil fitup modifications (grinding/cp)	165*	01DEC07A	31JUL08	31JUL08	0	1,563			
Punchlist- Coi										
PLCT-A1	Insul,measure,TC, other punch list-A1	228*	01AUG07A	30JUN08	30NOV07A	-143	1,585			
PLCT-A2	Insul,measure,TC, other punch list-A2	228*	01AUG07A		30NOV07A	-143	.,			
PLCT-B1	Insul,measure,TC, other punch list-B1	228*	01AUG07A		30NOV07A	-143	1,585			
PLCT-C1	Insul,measure,TC, other punch list-C1	228*	01AUG07A		30NOV07A	-143				-
PLCT-B2	Insul,measure,TC other punch list-B2	205*	04SEP07A	30JUN08			-,	T		1
					08JAN08A	-123	1,585			
PLCT-C2	Insul,measure,TC, other punch list-C2	248*	03JUL07A	30JUN08	21DEC07A	-128	98			<u> </u>
PLCT-A3	Insul,measure,TC, other punch list-A3	247*	05JUL07A	30JUN08	14FEB08	-96	132			
PLCT-A4	Insul,measure,TC, other punch list-A4	246*	06JUL07A	30JUN08	05MAR08	-82	132			1
PLCT-B3	Insul,measure,TC, other punch list-B3	186*	010CT07A	30JUN08	20MAR08	-71	40]
PLCT-C3	Insul,measure,TC, other punch list-C3	186*	010CT07A	30JUN08	07APR08	-59	105			
PLCT-B4	Insul,measure,TC, other punch list-B4	186*	010CT07A	30JUN08	21APR08	-49	124			1
PLCT-C4	Insul,measure,TC, other punch list-C4	233*	25JUL07A	30JUN08	02MAY08	-40	210			1
PLCT-A5	Insul,measure,TC, other punch list-A5	14	30JUL07A	11JUN08	12MAY08	-21	183		-	
PLCT-A6	Insul,measure,TC,SG other punch list-A6	14	010CT07A	12SEP08	09OCT08	19	122			
PLCT-B5	Insul,measure,TC, other punch list-B5	14	010CT07A	30JUN08	29OCT08	85	183			
PLCT-C5	Insul,measure,TC, other punch list-C5	18	010CT07A	08MAY08	06NOV08	127	219			
PLCT-B6	Insul,measure,TC,SG other punch list-B6	14	010CT07A	19JUN08	21JUL08	21	181			
PLCT-C6	Insul,measure,TC,SG other punch list-C6	14	010CT07A		18MAR08	-65	182			
PLCT-CRANE	Crane support	207*	01DEC07A		30SEP08	0				
			OIBEOOM	000E/ 00	303EI 00	0	1,521			
Dudek										
DOD: 1431 - Pucks	Mod. Coil Interface Hardware-DUDEK									
lucks										
1429-3110	PPPL cut and grind to thickness	290*	04FEB08A	31MAR09	31MAR09	0	16			
Shims-Outboa	Ird									
			1	T						
1429-3066	Outboard Shims	135	03MAR08A	03SEP08	03SEP08	0	79			
Shims-Inboard	d									
1429-3062X	Inboard Shims	208*	03MAR08A	02JAN09	0214100	0	73			J
Studs,Washer		200	JUNARUDA	020/11/09	02JAN09	0	/3			
etaas, masner										
1421-3070	Order studs & washers for c-c joint	264	12MAY08*	02JUN09	02JUN08	-249	285		-	U N
1421-3073	Deliver supernuts for c-c joint	40	03JUN08*	29JUL08	29JUL08	0	547			
Misc Tech Sho	op Support									
1421-4000	Misc Tech Shop support through sta 2 (1/2 mm/mo.	499*	010CT07A	30SEP09	30SEP09	0	1,272			
	12 20MAV09 11.21 084R		CSX Projec				ND JOB MAN			

Activity	Activity	Duration	n Forecast	Forecast	Baseline	Schedule	Remaining		FY08	
ID	Description	(work days	Start	Finish	Finish	slip to baseline	Float	MAY	JUN	JUL
		uujo				(work days)		85 12 19	26 2 9 16 23	30 7 14
erry										
	TC Prep & Mach Assy Planning-PERRY									
PP Projects	Required for NCSX (non-MIE cost)									
GPP-01	CS Crane	0		30MAY08*	30MAY08*	0	470			
			1						•	
						-				
714.020	LOE Prior to assy starting	583*	010CT07A	25JAN10	25JAN10	0	1,221			-i
tratton										
	Magnetic Diagnostics-STRATTON									
	C-wound Loops									
3101-230	Check elect characteristics of T/C	20	13JUN08*	11JUL08	27OCT08	75	1,577			
ogowski Coi	ils		1	1	I					
3101-352		78*	04550004	001441/00		00				
3101-352	Assy & detail dgws	-	01FEB08A	20MAY08	03APR08	-33	397			_
3101-353	Prep installation procedure Check elect characteristics of cables	31 30	21MAY08	03JUL08	16MAY08	-33	397			
3101-370	Fab coil clamps & ends	30 12*	09MAY08* 15MAY08A	20JUN08	23APR10	456 0	1,591			
3101-357	Install Rogowski coils support (in job 1815)	63*	02APR08A	30JUN08	02JUN08		420			
3101-359		165*		12JAN09	30APR08	-42	499			
	Title III support -wound Loops	100.	09MAY08*	12JAN09	19MAR10	296	1,456		L	
3101-425	Design Protective boxes for PF	227*	01NOV07A	30SEP08	01APR08	-127	1,431			U N
3101-426	Purchase SS Sheet	220*	12NOV07A	30SEP08	18JUN08	-72	252			U N
3101-452	Form Protective boxes	223*	12NOV07A	030CT08	23JUN08	-72	252			
3101-454	Weld end plates of PF protective boxes	224*	09NOV07A		30JUN08	-67				и Л
3101-427	Purchase Heat Shrink tubing	220*	12NOV07A	30SEP08	19MAY08	-93	1,431			U Л
3101-428	Purchase add'l CoAxial cable	46	01MAY08*	07JUL08	07JUL08	0	315			
3101-458	Fab PF & solenoid co-wound loops	186	02JUL07A	10NOV08	15AUG08	-60	1,431			
CC and Heate	er Tape Leads		1							
1004 4 44	Drawings Signed T/C and Heater Tang Loads	20*	001441/004	20141/00	04144.000+	20	050		-	
1204-141	Drawings Signed T/C and Heater Tape Leads	20*	02MAY08A		01MAY08*	-20	258			
1204-144	Check elect characteristics T/C & heater port 12 Field/Fab support (title III) T/C&Heater Tape		02JUN08	16JUN08	04AUG08	34	324			U
	s & Protective Boxes	65	02JUN08	02SEP08	04AUG08	-20	1,541			
onage Loops	S & FIDIECLIVE DOXES									
3101-806	Check elect characteristics of coax	20	16MAY08*	13JUN08	13JUN08	0	1,596			
3101-807	Check elect characteristics ex-vessel flux loops	32*	01MAY08	16JUN08	30OCT08	96	1,595			
ob: 3901 -	Diagnostics sys Integration-STRATTON									
390-04	LOE Support FY08	249*	010CT07A	29SEP08	29SEP08	0	1,522			4
ïola					2002.00	-	.,022			
	FP Assy Oversight&Support-VIOLA									
	I Supervision									
			1	1						
	ORNL Title III field period assy station 2	441*	04FEB08A	02NOV09	02NOV09	0	0			
R1802-003	Metrology Engr Super FY08	250*	010CT07A		30SEP08	0	1,521			
R1802-007	FPA Management FY08	250*	010CT07A		30SEP08	0	1,521			<u></u>
R1802-009	PU Title III support	630*	04FEB08A	10AUG10	10AUG10	0	0			
R1802-010	Drexel co-op student support	630*	04FEB08A	10AUG10	10AUG10	0	0			
R1802-015	HP Coverage in the TFTR TC LOE FY08	250*	010CT07A	30SEP08	30SEP08	0	1,521			
1802MISC	Misc materials,tools, GSA vehicle,rigging	615*	01FEB08A	19JUL10	19JUL10	0	1,076			1
heet 8 of		N	CSX Projec	t		D BY RLM AN				

Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	Baseline Finish	Schedule slip to baseline (work days)	Remaining Float	FY08 MAY JUN JUL 18,5 12,19,26,2 9,16,23,30,7 14
203FY08.2	Title III Design support FY08 PPPL	170*	01FEB08A	30SEP08	30SEP08	(work days) 0		
tation 3 proc	cedures,JHA,ACC,Training,Prep							
4000 007	Descentioner unities & second	00+	4400004	4444400				
R1802-307	Procedures written & approved	23*	14APR08A	14MAY08	14MAY08	0		
R1802-309	JHA completed	6	15MAY08	22MAY08	22MAY08	0		
R1802-311	Training needs identified & released	6	23MAY08	02JUN08	02JUN08	0		
1802-313	ACC review completed	6	03JUN08	10JUN08	10JUN08	0		
1802-315	Pre-job brief completed	6	11JUN08	18JUN08	18JUN08	0	168	
DD: 1810 - eneral Assy	Field Period AssyStation 1,2,3 VIOLA							
eneral Assy	Support							
1810-003	LOE Crane support, fixture setupfor FY08	250*	010CT07A	30SEP08	30SEP08	0	1,521	
1810-025	Crane & Rigging inspections	625*	01FEB08A	02AUG10	02AUG10	0	1,066	
1810-035	Welding qualifications	625*	31JAN08A	30JUL10	30JUL10	0	1,067	
1810-007	LOE Field Supervision for FY08	250*	010CT07A	30SEP08	30SEP08	0	1,521	
1810-2001	Misc Hardware and hardware rework (1/2 fte loe)	615*	01FEB08A	19JUL10	19JUL10	0	1,076	
21-4.02	Perform routine metrology set-up and checks (loe	526*	01FEB08A	12MAR10	12MAR10	0	1,165	
ation 1-VV F	Prep (hard surface components) FP#1							
1010 111-		-						
1810-1110	Install Final Internal&Ext monuments & meas	4	02MAY08A	05JUN08	07MAY08	-20		
1810-1114	Install heater tape on all removable ports	25	01MAY08	05JUN08	07MAY08	-20		
1810-1100	Design & Build heater& thermo termination box	41	01MAY08*	27JUN08	01MAY08	-40	1,586	
1810-1111	Final Scan	4	06JUN08	11JUN08	03JUN08	-6	258	
1810-1113	Prepare &transfer completed VV to holding area	5	12JUN08	18JUN08	10JUN08	-6	258	
tation 1- VV	Prep (hrd surf cmpntsFP#2							
R1810-1208	Perform final acceptance testing (H/C flow test)	32	01MAY08	16JUN08	30MAY08	-11	329	
R1810-1216	Install Final Internal&Ext monuments & meas	20	17JUN08	15JUL08	27JUN08	-11	329	
R1810-1214	Install heater tape on all removable ports	25	17JUN08	22JUL08	09SEP08	34	324	
tation 1- VV	Prep (hrd surf cmpntsFP#3		•					
R1810-1308	Perform final acceptance testing (H/C flow test)	22	17JUN08*	17JUL08	01JUL08	-11	260	
R1810-1310	Heater and thermo termination & verification	19*	30APR08A			109	368 404	
etup		13	JUAPRUOA	271014100	29OCT08	109	404	
etup								
1810-2034	Misc Tool and Hardware	375*	01MAY08	280CT09	28OCT09	0	1,252	
1810-2036	Fuji Paper	454*	01MAY08	02MAR10	02MAR10	0	1,173	
R1810-2081	Removable photogrammetry targets	355*	01MAY08*	30SEP09	30SEP09	0	1,272	
R1810-2082	Fixed photogrammetry targets	355*	01MAY08*	30SEP09	30SEP09	0	1,272	
R1810-2083	Replacement photogrammetry targets	355*	01MAY08*	30SEP09	30SEP09	0	1,272	
1810-2084	Design and purchase 3 additional wedge supports	44*	01APR08A	02JUN08	02JUN08	0	1,605	
R1810-2024	Rework wedges f/combined assemblies& coil handli	106*	01MAY08	30SEP08	16JUN08	-74		
R1810-2026	Setup up satellite shop in Mock-up area	43*	01APR08A	30MAY08	22MAY08	-5	1,606	
R1810-2087	Coordinate measuring machine	21	01MAY08*	30MAY08		0	,	
1810-2088	HEPA machine tool exhaust system	21	01MAY08*		30MAY08	0	,	
1810-2089	Tools, cabinets & storage shelving	579*	01MAY08*		26AUG10	0	,	
1810-2002	Purchase grinding machine	21	01MAY08		30MAY08	0	.,	
1810-2090	Consulting services nose welding (England)	644	01MAY08*		26AUG10	-65	.,	
20-4.02	Perform metrology set-up;purchase 6 pillars	21	01MAY08*			-00		
	g and fitup checks				JUNATUO		1,000	
re-Measuring								
	ment of MCHP A2,B2,C2 flanges							

© Primavera Systems, Inc.

Activity ID	Activity Description	Duratior (work	Forecast Start	Forecast Finish	Baseline Finish	Schedule slip to	Remaining Float		FY08
Ľ	Description	days	Otart	T IIIIoII	1 man	baseline (work days)		MAY	JUN JUL 9,26,2 ,9 ,16,23,30,7 ,14,2
Pre measure	ment of MCHP A3,B3,C3 flanges					(work days)			9 20 2 9 10 23 30 7 14 2
2-3-2.99	Drill Stycast fill holes	3	27JUN08	01JUL08	01JUL08	0	39		
523-3.02	Compress shims sort by thickness	6	27JUN08	07JUL08	07JUL08	0	39		
523-4.01	Install MCHP fixtures & metrology equipt	6	24JUN08*	01JUL08	01JUL08	0	39		
Pre measure	ment of MCHP A5,B5,C5 flanges		1	1					
525-1.01	Verify mating MC's of MCHP will come together	4	06JUN08	11JUN08	10OCT08	85	183		
625-2.01	Set the B5 coil on fixture, & measure	1	12JUN08	12JUN08	13OCT08	85	183		
\$25-2.02	Align to the conical seats locking into min of 8	2	13JUN08	16JUN08	15OCT08	85	183		
\$25-2.03	Measure monuments on fixture and walls.	7	17JUN08	25JUN08	24OCT08	85	183		
\$25-2.04	Measure tooling ball monuments	1	26JUN08	26JUN08	27OCT08	85	183		
625-2.05	Scan the B flange of B5	1	27JUN08	27JUN08	28OCT08	85	183		
625-2.07	Remove B5 move to holding area.	1	30JUN08	30JUN08	29OCT08	85	183		
	subassy A1B1C1								
AB-C MC Ass 2-1-7.12		1	451441/00*	451441/00	401443/00	2			
2-1-7.12	Torque50% of final value.		15MAY08*	15MAY08		2	57		
	Measure position of all monuments	2	14MAY08	15MAY08		2	57		
2-1-7.14	Measure shim puck height	1	15MAY08	15MAY08		2	57		
2-1-7.15	remove puck locating rings & install all nose s	3	16MAY08	20MAY08		2	57		
-1-7.16	"Lightly" tack weld nose flex shims	1	21MAY08	21MAY08		2	57		
2-1-7.17	remove "C" coil & place it on a separate fixtur	1	22MAY08	22MAY08		2	57		
2-1-7.18	Recheck part alignment & weld all Type-B flex s	3	23MAY08	28MAY08		2	57		
2-1-7.19	After welding "B" coil nose shims recheck align	1	29MAY08	29MAY08	02JUN08	2	57		
-1-7.20	Back office assessment of part after weld	2	30MA Y08	02JUN08	04JUN08	2	57		
2-1-7.21	Measure "C" fiducials	1	30MA Y08	30MA Y08	03JUN08	2	58		
2-1-7.22	Weld all Type-C (A-flange) flex shims plasma sid	2	03JUN08	04JUN08	06JUN08	2	57		
2-1-7.23	After welding determine metrology acceptance	1	05JUN08	05JUN08	09JUN08	2	57		
2-1-7.24	Back office assessment	2	06JUN08	09JUN08	11JUN08	2	57		
2-1-7.25	Remove shims for alignment mating coil	0	06JUN08	05JUN08	09JUN08	2	59		·
2-1-7.07	Place unfilled shim bags in wing areas	1	06JUN08	06JUN08	10JUN08	2	59]•
2-1-7.26	Lower mating "C" coil into position.	1	10JUN08	10JUN08	12JUN08	2	57] •
2-1-7.261	alignment "C" coil tooling balls	1	11JUN08	11JUN08	13JUN08	2	57		•
2-1-7.27	position coil accurately in x, y, & z directio	1	12JUN08	12JUN08	16JUN08	2	57		I •
2-1-7.28	Install shims;studs,, & "wiggle"	1	13JUN08	13JUN08	17JUN08	2	57		
2-1-7.29	Torque50% of final value.	1	16JUN08	16JUN08	18JUN08	2	57] •
2-1-7.30	Measure position of all monuments	1	17JUN08	17JUN08	19JUN08	2	57		
2-1-7.301	Fuji paper, & examine load sharing. back office	2	18JUN08	19JUN08	23JUN08	2	57		—
2-1-7.302	Install new shims & Fuji paper. Lower & reposit	3	20JUN08	24JUN08	26JUN08	2	57		
2-1-7.303	Install shims without Fuji paper, studs & torqu	2	25JUN08	26JUN08	30JUN08	2	57		
2-1-7.31	Adjust shims locally. Re-torque all studs50%.	2	27JUN08	30JUN08	02JUL08	2	57		
tation 2 MC	subassy A2B2C2								
A-B MC Asse							1		
2-2-6.15	Recheck part alignment of "A" coil	2	15MAY08	16MAY08		-7			
2-2-6.151	Weld all Type-A flex shims plasma side	2	19MAY08*	20MAY08		-7	84		
2-2-6.16	recheck alignment	1	21MAY08	21MAY08	12MAY08	-7	84		
2-2-6.17	Back office assessment of part after weld	2	22MAY08	23MAY08	14MAY08	-7	84		
2-2-6.18	Measure "B" fiducials estab coord sys	1	22MAY08	22MAY08	13MAY08	-7	85		
-2-6.19	Weld all Type-B (A-flange) flex shims plasma sid	2	27MAY08	28MAY08	16MAY08	-7	84		
-2-6.20	Recheck part metrology acceptance criterion.	1	29MAY08	29MAY08	19MAY08	-7	84		
-2-6.21	Back office assessment of part after weld	2	30MAY08	02JUN08	21MAY08	-7	84		
-2-6.22	Remove shims as necessary	0	30MA Y08	29MAY08	19MAY08	-7	85		
-2-6.04	Place unfilled shim bags in wing areas	1	30MA Y08	30MA Y08	20MAY08	-7	85		I
		1							<i>a</i>

Activity	Activity	Duration		Forecast	Baseline	Schedule	Remaining		FY08	
ID	Description	(work days	Start	Finish	Finish	slip to baseline	Float	MAY	JUN	JUL
						(work days)		85 12 19 2	26 2 9 16 23	30 7 14 21
2-2-6.23	Lower mating "B" coil into position.	1	03JUN08	03JUN08	22MAY08	-7	84		l	
2-2-6.231	Perform alignment "B" coil tooling balls	1	04JUN08	04JUN08	23MAY08	-7	84			
2-2-6.24	"B" coil, position coil accurately in x, y, &	1	05JUN08	05JUN08	27MAY08	-7	84	•	I	
2-2-6.25	Install shims;studs,supernuts, wiggle t	1	06JUN08	06JUN08	28MAY08	-7	84		•	
2-2-6.26	Torque50% of final value.	1	09JUN08	09JUN08	29MAY08	-7	84		•	
2-2-6.27	Measure position of all monuments	2	10JUN08	11JUN08	02JUN08	-7	84		- 1	
2-2-6.28	Adjust shims locally. Re-torque all studs50%.	3	12JUN08	16JUN08	05JUN08	-7	84		-	
2-2-6.29	Install bushing. Replace nut & tighten back 50%	3	17JUN08	19JUN08	10JUN08	-7	84		-	
2-2-6.30	After super bolt tightening, measure position	1	20JUN08	20JUN08	11JUN08	-7	84		• [
2-2-6.31	Tighten all boltsir final torque.	1	23JUN08	23JUN08	12JUN08	-7	84		• [
2-2-6.32	After tightening hardware, measure position	2	24JUN08	25JUN08	16JUN08	-7	84		- [
2-2-6.33	Weld A / B nose region solenoid side	3	26JUN08	30JUN08	19JUN08	-7	84		-	
Station 2 MC	subassy A3B3C3			1						
A-B MC Asse	mbly		1	1						
2-3-6.01	Lower Type-A modular coil onto jacks	3	02JUL08*	07JUL08	07JUL08	0	39			
2-3-6.02	Mark nose shim locations & puck locations.	0	08JUL08	07JUL08	07JUL08	0	39			1
2-3-6.03	Place initial set of shims (4-8) on Type	1	08JUL08	08JUL08	08JUL08	0	39			
Station 3 Setu	p/Preparations/General		•							
Misc Prep ac			1	1						
R1810-3112	Load Test 3 legged actuator lift fixtur	8	03JUN08*	12JUN08	12JUN08	0	169			
R1810-3113	Procure wire rope slings & 6 17ton shackles	8	03JUN08*	12JUN08	12JUN08	0	169			
R1810-3109	Remove winding stations & enclosures	20	12MAY08*	09JUN08	09JUN08	0	169			
R1810-3107	Test out station 3 equipment and procedures	30	01MAY08*	12JUN08	02JUN08	-8	169			
	emble Mod Coils and VVSA-FP#1									
Set-up and P				[
3-1-1.01	transfer CAD models	7	19MAY08*	28MAY08	28MAY08	0				
3-1-1.02	Install Station 3 site monuments	3	13JUN08	17JUN08	12JUN08	-3	166		_ •	
3-1-1.03	Install floor mounted tracks and the VV base sup	5	02JUN08	06JUN08	07MAY08	-21	173			
Install Laser										
3-1-6.02	Place all laser screens	2	18JUN08	19JUN08	16JUN08	-3	166		-	
3-1-6.03	Turn each lasers on & measure each laser source	1	20JUN08	20JUN08	17JUN08	-3	166		• [
3-1-6.04	Print path on milar paper	0	23JUN08	20JUN08	17JUN08	-3	166			
Install Vacuu			1	1					_	
3-1-7.02	Install VV NBI port support stand.	2	23JUN08	24JUN08	20JUN08	-2	166		-	
3-1-7.03	Install VVSA to base support and make connection	1	25JUN08	25JUN08	23JUN08	-2	166		•[
3-1-7.04	take tooling ball readings and secure VVSA	2	26JUN08	27JUN08	25JUN08	-2	166		-	
3-1-7.05	Scan VV surface and compare data	3	30JUN08	02JUL08	30JUN08	-2	166		-	

084R

Activity ID	Activity Description	Duration Forecast (work Start		Forecast Finish	Baseline Finish	Schedule slip to	Remaining Float	FY08		
		days				baseline (work days)		MAY 8.5 12 19	JUN 26,2 ,9 ,16,23	JUL 30 7 14 21 2
Al vonH	alle		1	1	1					
Gentile										
	Integrated Systems Testing-GENTILE									
Startup Docur	nentation									
¥ 8501-000	Health/Safety Directive HSD 5008 Classification	0		30JUN08	30JUN08	0	537		7	▼∕
Ramakrish	-					_	•••			Y
-	DC Systems-RAMAKRISHNAN									
431 - C-Site D	C Systems									
431-240	Simulate each of 6 pwr loops in PSCAD	467*	01APR08A	17FEB10	17FEB10	0	234			<u>.</u>
431-250	c-site dc sys DGS dsn documentation	466*	01APR08A	16FEB10	16FEB10	0	235			
431-261	Redo power loop design	355	01MAY08*	30SEP09	30SEP09	0	324			
431-275A	Power cabling & Installation FY08	85*	02JUN08*	30SEP08	30SEP08	0	486			и л
431-276	Maint of C-site rectifiers	997*	010CT07A	30SEP11	30SEP11	0	774			
	Control & Protection-RAMAKRISHNAN									
441 - Electrica	il Interlocks									
441-100	PLC Specification	160	01MAY08*	17DEC08	17DEC08	0	314			Ū
445 - Coil Prof	tection Systems				1					
445-2-110	Overload Protect-Design	351*	01APR08A	24411609	24AUG09	0	337		r	
Sichta		001	UTAI NOOA	2440003	24A0G09	0				
	Central I&C Integr& Oversight-SICHTA									
R58-20	WBS58 -FY08 Management & Integration LOE	250*	010CT07A	30SEP08	30SEP08	0	4 504			v
		200	010010/7	300L/ 00	303EF 00	U	1,521		1	
Sheet 12 d	of 12 20MAY08 11:31 084R	N	CSX Projec	t	SORTE	D BY RLM AN	D JOB MAI	NAGER		
Sheet 12 (© Primavera Systems, Inc.		ek look-ah					-		

Weekly Meeting Actions Tracking Log Open Action Items

Meeting Date	Job	Action	Responsibilty Date of Status		Status		
5/21/2008				1			
	1701 6201	Provide list of near term needs from Design Integration to Tom Brown to enable him to plan his work load and	Rafttopoulos Heitzenroeder	5/21/2008			
	12XX	priorities Assign new Job number for Nomex Batt job	Stadiovela	E /04 /0000			
	1277	Assign new Job number for Nomex Ball Job	Strykowsky	5/21/2008			
5/14/2008							
	8204	Add items being work on, but not currently budgeted to WAF - adjust ETC	Brooks		Working on this - will provide greater granularity & adjusted ETC to Strykowsky by May 23rd		
	8203	Job Managers provide near term support needed from Design Integration for Cryostat/Cryosystems work	Raftopoulos/Heitzenroeder		Brown to add to WAF when info provided		
	1260	Provide interim milestone leading to June 23rd peer review		5/21/2008	New Engineer coming onboard (Kevin Shaw) - expect to provide this info by May 30th		
		Contact Site Protection to involve them in this job	Neilson		Site Protection contacted. CLOSE		
	1601-161	Ensure that SRD issued for review prior to Paul going on vacation	Goranson	5/21/2008	Initial version of SRD issued. Comments due back by May 23rd.		
		Set up PDR date and review team	Heitzenroeder		Notice to go out by May 23rd		
	1901	Identify additional Risk Mitigation tasks needed	Cole/Heitzenroeder		ORNL working on this - forecast is to close loop with Phil by May 23rd		
	1701 6201	Provide greater ganularity of work that is being performed	Raftopoulus	5/21/2008	Info provided for 1701 on 5/16. Still need info on Job 6201.		
5/7/2008				1			
5/7/2008	1702	Determine how leads will be routed out of Cryostat	Brown/Cole/Goranson	5/21/2008	Working options thru Tom B. & ORNL => expect to have better picture next week.		
4/18/2008				1			
4/10/2000	1260	Define path forward for enclosing pyrogel in nomex bats	Goranson	5/21/2008	Benson working with Cole to develop a plan - will eventually be documented in WAF. However, priority of work (and limited resources) is an issue.		
4/11/2008				1			
4/11/2008	1806	Station 3 drawings and CSPEC	Harris/Cole	5/21/2008	Drawings forecast still May 23rd - fixing some issues with models => still forecast for May 23rd CSPEC - what is reqm't for tolerance for positioning the VV when move for Station 3 - still forecast for May 23rd		
4/4/2008				1			
	1501/1551 1702/1752	SRDs for both Coil Support Structure and Base Support Structure	Dahlgren	5/21/2008	Both Base Support Structure and Coil Support Structures SRDs have been updated and are in signature cycle again.		
				1			
3/19/2008	1355	Need progress milestones	Cole	5/21/2008	Work at ORNL has just begun => will Identify progress milestones within a month (by mid-June)		