	<u>NC</u>	CSX Monthly	<u>y Progress Assessme</u>	e <u>nt</u>		
Description:			<u>RLM:</u>		<u>Initials</u>	Period:
Stellarator CoreDesign and Procu	rement			Phil Heitzenroede	r	July-2007
Scope (jobs):	Job Manager	Initials	Scope (jobs):		Job Manager	Initials
Conventional Coils WBS 13	Mike Kalish		Modular Coils Jobs 1416/1421/1	429/1431	Dave Williamson	
Coil Services WBS 16	Paul Goranson		Coil Structures & Base Support	Structure WBS 15	Fred Dahlgren	
Cryostat Job 1701/1751	Geoff Gettelfinger		Assembly Specs & Dwgs Job 18	306	Mike Cole	
Assy tooling & constructability Job 1803	Tom Brown		Systems Analysis Job 8204		Art Brooks	
Dimensional Control Job 8205	Bob Ellis		Systems Engineering & Support	Job 8202	Wayne Reiersen	
Highlights and Progress:						
A Peer Rev.was held for the TF-2 coil wedge repair. TF 1 was ov support structures; MC interfaces AA/AB/BC; MC interface CC. casting weld demonstration is underway. Subcontract for EWI we Issues (not currently impacting technical, cost, or s 1) A concern was identified concerning the possibility of gaps o developed (see below). 2) An estimate indicated that if it is nece re-sequencing PF/base structure assembly.	Pr-wrapped to address FDRs were held for the d analysis is in place. Chedule but bein pening up between the ssary to wind the PF of the provide the presence of the presence of the pening up between the presence of the presence of the pening up between the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of the presence of	s cracks developed in he MCAssemblies, a <b>g watched):</b> e welded shims & ca zoils in-house due to	n overcast epoxy during cryo test and Bolted Joints. A full-scale we astings due to weld shrinkage stre b lack of qualified bidders, the cos	s;passed accept. tests & delilvered eld mock-up demo. for the Type A t ss which could result in fatigue load st impact might be ~+\$145-770K an	o PPPL on 8/10/07. PD o B flange welding was c ls on the welds during op d +5mos. but still within	Rs were held for: Coil ompleted, and the A6/B6 eration. A solution was crit. path if mitigated by
Problems and work around plans : On Issue 1, an undercut shim has been developed which addresses coil windings, the release date for the procurement package is bein Feb.09. This will give the extra time necessary if in-house mfg.	the weld / gap issue 1g pulled back 3 mont 1s undertaken due to 1	noted above. Inform hs to permilt early f to lack of qualified b	nally eviewed by joint PPPL/ORN eedback on potential manufacture oidders.	VL engineers and will be formally p ers. 3 mos. has also been identified	resented as part of the FD I on the "tail end" -need d	R. On issue 2, the PF late for PF 4,5,6 L is now
Milestones (6 month look ahead)	Ioh	Job Mar	Baseline plan	Current Forecast	DOF Commitmen	t Level
Dimensional control plans for station 2	820	5 BE	31-Aug-07	7 31-Aug-07	DOL Commune	3
Station 2 Assembly Drawings	180	5 MC	11-Sep-07	7 11-Sep-07		3
FDR prep outboard shims	142	1 DW	18-Jul-07	29.IUN07A		3
Station 2 Assembly Specification	180	5 MC	11-Sep-07	11-Sep-07		3
Check and promote top-level models/drawings	141	5 DW	21-Nov-07	21-Nov-07		3
PDR	150	1 FD	20-Jul-07	20JUL07A		3
FDR AB/BC/AA inboard interface	142	1 DW	4-Sep-07	4-Sep-07	Nov-07	2
Dimensional control plans for station 3	820	5 BE	15-Oct-07	7 15-Oct-07		3
** DELIVER TF COILS FOR FPA #1 ASSY **	136	1 MK	28-Sep-07	7 28-Sep-07	Dec-07	2
Prepare EM and structural analysis of leads	1410	6 DW	6-Nov-07	6-Nov-07		3
PF Coil PDR	130	2 MK	11-Dec-07	5-Oct-07	Mar-08	2
Dimensional control plans for station 5	8205	5 BE	15-Feb-08	3 15-Feb-08		3
Fab, Test & Deliver Coil #6	136	1 MK	23-Nov-07	23-Nov-07		3
PF FDR	1302	2 MK	24-Mar-08	4-Dec-07		3
Prepare Type-ABC closeout FDR	1410	6 DW	14-Jan-08	3 14-Jan-08		3
FDR C-C Joint	142.	I DW	7-Jan-08	5 /-Jan-08		3
		0	Cost and schedule Performar	ıce		
		_			From May 1,2007	Current Month
4 000	gn and Procurer	nent		BCWS =	\$1,730	\$634
2,500				BCWP =	\$1,546	\$729
3,500				ACWP =	\$1,006	\$301
3,000				CV =	\$540	<i>4001</i>
2,500				SV =	-\$184	
₩ 2,000				CPI =	1	1.54 2.42
1,500			BCWS	SPI =	(	).89 1.15
1,000			BCWP	BAC =	\$57,127	
500			ACWP	EAC =		
0				Projected cost variance =		
		EC fv08 IAN fv08		EAC Variance Explanation		
fy07	fy08		fy08			
			Analysis			
Cost Variance (Cause, Impact, and Corrective Action) (>5% a Job 1421: MC Interface +\$338.7K ; Job 1501 Coil Structu +\$85.2K	<u>nd &gt;\$50k)</u> res -59.8K; Job 820	02 Sys. Engrg. +\$1	125K; Job 8200 Des. Int.	Schedule Variance (Cause, Impa 1421: Work is proceeding better than tests and FDR yet.; 1521: work proce dates of other jobs; 8202: Undercharg Limited by personnel resources(?)	act, and Corrective Action anticipated, but need to comp eding ahead of anticipated so es due to vacations & time s	on) (>5% and >\$50k) plete conformatory welds & chedule due to changes in start heet mischarge; 8203:
		Changes/Addi	tions to the risk registry			
Description	Likelihood of Occurrence	Cost	and schedule impact			
RR #29 concerning PF coil mfg. updated to correct mis- interpretation of PPPL costs.				Potential cost impact of \$+145-770K if manufacture at PPPL is necessary.		

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RR# 32 added concerning gaps opening up along welded shims for MC interfaces AA, AB, BC We believe the proposed solution will have a minimal cost and schedule impact; this assumption will be verified at the FDR.