Feb 25, 2009

Respon.	Item	Date	Notes
	1. Project		
Egebo	 Progress on the Primivera entry of the plan 	Feb 28, 2009	2/25: Need Raki input for prototype work
Chrzanowski	Status of designer assignments	Ongoing	Updated 2/25: New ProE designer started today, HR has 2
			reqs for designers.
	2. Design Requirements		
Neumeyer	General Requirements Document - DRAFT (Signed	Feb 28, 2009	2/25: Masa and Jon have it for approval. On track.
	off by?)		
Neumeyer	A more limited OH and PF operating envelope needs	GRD updte:	2/25: Latest version has been posted.
	to be developed for the design basis assumption	2/28 Menard	·
Noumovor	 A coil protection system needs to be incorporated 	equilibria: 3/15	In progress. Not included in the current plans, but will be
Neumeyer	• A con protection system needs to be incorporated	Train by 0/10	estimated into the CDR plan. RIS replacement? Initiated
	into the project plans to ensure that the envelope is		Neumeyer to come up with a plan Action:Neumeyer
	suitably constrained.		
	3. TF Bundle		
Hatcher	Disruption loads have not yet been factored in. The	Mar 22, 2009	2/25: NSTX startup has had an impact on this, Ron using
	application of a dynamic load factor less than 1.0		opera to develop model.
	approximation of a dynamic road latter root main no		
	seems appropriate due to the impulse flature of the		
	disruption loading.		
Woolley	Preliminary results suggest that the turn-turn insulation shear in	Feb 18, 2009	Memo documenting results in a couple weeks.
	the TF bundle is within the allowable stress limit even without		
	the implementation of a torque collar below the TF joint, above		
	the OH coil.		
	 Further analysis is needed to confirm this finding 		
	Additional analysis should be performed to determine if		
	the same is true without any torsional restraint at the		
	ends of the TF bundle, i.e. if the spline/umbrella load		
	path is eliminated		
	4. TF Bundle Joint Connection		
Woolley	 Are bolts below the flex accessible? 	TBD	
	 What design and fabrication method is 		Requires concept to determine
	appropriate for the flex connector, providing the		
	necessary IP and OOP flexibility, while being able		
	to withstand the forces without fatigue failure?		
	braid connection		
	cable connection		
	water-iet connection		
Woolley	What joint/flag flexibility is appropriate, in-plane	Feb 11, 2009	
	(IP)?		
Woolley	What joint/flag flexibility is appropriate, out-of-	Feb 11, 2009	
,		,	
Woolley	 How does the OOP of flexibility relate to the gap 	Eeb 11 2009	
wooney	 How does the OOF of hexibility relate to the gap 	1 65 11, 2003	
	between the flex connector and the OOP support		
	structure?		
woolley	 Options for the female side of the bolting need to 		
	be assessed, including use of inserts versus the		
	use of bolting plates embedded in the copper		
woolley	It would be desirable for the bolts to provide		
	both contact pressure and a reaction against		
	about loading due to the vertical fore		
	silear loading due to the vertical force on the		
147 11	flex	F 1 (5 55)	
woolley	Document OOP and IP loading	Feb 18, 2009	
	5. Umbrella Structure & Outer TF Leg		
Heitzenroeder	Need to develop a plan to deal with the items below	Feb 11, 2009	
Heitzenroeder	Enhance the umbrella structure to reduce	Ungoing	Updated 2/11-Sri is finishing up a model of the umbrella with mechanical enhancements
	stresses due to twist and bulge by adding welded		
	or bolted material in configuration TBD.		

Respon.	Item	Date	Notes
Heitzenroeder	 Enhance the existing turnbuckle system to improve its strength and stiffness but without relocation or modification which would exceed the present physical envelope 	Ongoing	Updated 2/25: Han has model running, there appear to be some inconsistencies in the model that need troubleshooting
	6. Vacuum Vessel Structure		
Heitzenroeder	 Enhance the VV midplane strength by welding a band of material around the inner surface of the midplane, where interferences are relatively minor. 	Ongoing	2/25: Sri presented first cut at 360 deg. midplane model. peak stresses look good at < 30ksi.
	7. Cooling Water		
Dudek	 Need to assign engineer to perform this work 	Feb 28, 2009	2/15: New personnel requisition or BOA will be used to fill.
	8. New 2/18		
Perry	 Can diamond cross braces as shown on Hans model be installed on the machine? If Not which bays could receive the upgrade? 	Mar 3, 2009	2/25: Erik to review the machine and report on which bays could be upgraded.
	COMPLETED ITEMS		
Heitzenroeder	Preliminary results suggest that the umbrella lids, if made of the appropriate thickness, could provide their torque restraint function without the implementation of a spline gear for thermal expansion. This needs to be confirmed by further analysis including buckling of the center column. If deployed symmetrically on top and bottom, would allow the thermal expansion to be equalized about the midplane, which is advantageous	Feb 25, 2009	Updated 2/25: Model of ebeam welded "stub joint" was presented.
Titus	Need Ansys analysis of the current streamlining to determine if the Heitznroeder concept works. ie low forces in joint	Feb 25, 2009	Complete: Pete can look at the streamlining if Phil supplies the 2d dimensions
Titus	Feltmetal vs Silver to Silver Contact joints should be looked at. MAST has done research on the feltmetal joints comparing it to Silver plated joints.	Feb 25, 2009	Completed
Neumeyer	How do we downselect the concepts to just a few.		Update 2/18 Will meet 9:30 Thursday 2/26. To downselect designs Plan on meeting end of the month to decide