

Meeting Notes

	Respon.	Item	Due Date	Status Date	Status / Notes
▼ 0. New					
		New March 11th		Mar 11, 2009	
	Perry	<ul style="list-style-type: none"> Photos of TF Outer Leg Support Mockups 	Completed	Mar 11, 2009	New 3/1: Reviewed photos of the Outer TF leg mockups. Looks like the members as modeled would fit in almost all of the locations around the machine except for the busswork tower bay.
	Zhang	<ul style="list-style-type: none"> TF Outer Leg Bracing: Neumeyer requested moving the location of the cross members vertically on the legs (ring to turnbuckle elev.) to determine if the benefit improves. Also try the supports in only 4 bays. 	Mar 19, 2009	Mar 11, 2009	
		<ul style="list-style-type: none"> Simmons reported new docs have been posted to the website including the CD-0 docs and meeting notes 		Mar 11, 2009	
		<ul style="list-style-type: none"> Titus TF Flex Concept 		Mar 11, 2009	Titus reviewed the latest updates to his concept, improved to provide better access, IP Flexibility and OOP support.
	Neumeyer	<ul style="list-style-type: none"> Joint Down select meeting has been set for Monday, 3/23 @ 2:30 		Mar 11, 2009	
▼ 1. Project					
	Chrzanowski	<ul style="list-style-type: none"> Status of designer assignments 	Ongoing	Mar 11, 2009	New designer on Monday, 2 more reqs have been cut. 2 new designers electrical on the way, 1 hired, 2nd interviewing.
	Dudek	<ul style="list-style-type: none"> Will need additional office space for new engineers 	Mar 21, 2009		
▼ 2. Design Requirements					
	Neumeyer	<ul style="list-style-type: none"> A more limited OH and PF operating envelope needs to be developed for the design basis assumption 	GRD updt: 2/28 Menard equilibria: 3/15	Mar 11, 2009	Still waiting (and prodding) Rajesh for comments
	Neumeyer	<ul style="list-style-type: none"> A coil protection system needs to be incorporated into the project plans to ensure that the envelope is suitably constrained. 	Plan by 3/15		In progress. Not included in the current plans, but will be estimated into the CDR plan. RIS replacement? Initiated Neumeyer to come up with a plan Action:Neumeyer
▼ 3. TF Bundle					
	Woolley	<ul style="list-style-type: none"> Further analysis is needed to confirm stress in turn to turn insulation is acceptable <ul style="list-style-type: none"> 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 	Feb 18, 2009	Mar 11, 2009	Completed analysis of OOP EM forces. Working on the memo.
	Chrzanowski	<ul style="list-style-type: none"> Pricing of the TF Bundle conductors 	Mar 15, 2009	Mar 4, 2009	Updated 3/4: Lavada to give us price on the 80 TF Conductors, Extruded and machined. Also looking into getting machined conductors from Zenex precision (price this week or early next week)
	Hatcher	<ul style="list-style-type: none"> Disruption loads have not yet been factored in. The application of a dynamic load factor less than 1.0 seems appropriate due to the impulse nature of the disruption loading. 	Mar 22, 2009	Mar 4, 2009	Updated 3/4 Should know by the end of the week if this is going to be a schedule problem. 2/25: NSTX startup has had an impact on this, Ron using opera to develop model.
▼ 4. TF Bundle Joint Connection					
	Chrzanowski	<ul style="list-style-type: none"> Four TF Joint concepts that were presented last week have been modeled by Bruce Paul 	Ongoing	Mar 11, 2009	Titus reviewed the latest updates to his concept
	Woolley	<ul style="list-style-type: none"> Are bolts below the flex accessible? 	TBD		
		<ul style="list-style-type: none"> What design and fabrication method is appropriate for the flex connector, providing the necessary IP and OOP flexibility, while being able to withstand the forces without fatigue failure? (Braid, Cable or WJ Connection?) 			Requires concept to determine
	Woolley	<ul style="list-style-type: none"> What joint/flag flexibility is appropriate, in-plane (IP)? 	Feb 11, 2009		
	Woolley	<ul style="list-style-type: none"> What joint/flag flexibility is appropriate, out-of-plane (OOP)? 	Feb 11, 2009		
	Woolley	<ul style="list-style-type: none"> How does the OOP of flexibility relate to the gap between the flex connector and the OOP support structure? 	Feb 11, 2009		
	woolley	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> It would be desirable for the bolts to provide both contact pressure and a reaction against shear loading due to the vertical force on the flex 			
	Woolley	<ul style="list-style-type: none"> Document OOP and IP loading 	Feb 18, 2009		
▼ 5. Umbrella & Outer TF Leg					
	Heitzenroeder	<ul style="list-style-type: none"> Need to Enhance the umbrella structure to reduce stresses due to twist and bulge by adding welded or bolted material 	Ongoing		Updated 3/4: Looks like the VV stresses have improved with the latest refinements to the model. An error in the application of the EM load was found on the turnbuckle inputs, with the proper inputs maximum stress in the vacuum vessel of the NB port sector was reduced to 58.6 ksi, a decrease of 32% from the previous calculation.
	Heitzenroeder	<ul style="list-style-type: none"> Need to Enhance the existing turnbuckle system to improve its strength and stiffness 	Ongoing	Mar 11, 2009	Han to modify model to move TF Leg support ring at the level of the existing turnbuckles and to run
▼ 6. VV Structure					
	Irv Zatz	<ul style="list-style-type: none"> To look into the work needed to run the 360 deg model on the Cluster to accelerate the results 	Mar 12, 2009	Mar 11, 2009	Dudek spoke with Zatz, who will investigate how to get software onto the server to run.
	Heitzenroeder	<ul style="list-style-type: none"> Enhance the VV midplane strength by welding a band of material around the inner surface of the midplane, where interferences are relatively minor. 	Ongoing	Feb 25, 2009	2/25: Sri presented first cut at 360 deg. midplane model. peak stresses look good at < 30ksi.
▼ 7. Cooling Water					
	Dudek	<ul style="list-style-type: none"> Need to assign engineer to perform this work 	Feb 28, 2009	Feb 15, 2009	2/15: New personnel requisition or BOA will be used to fill.
▼ 8. Completed					
	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	Mar 11, 2009	Updated 3/4: Joe Winston has dimensions form Han Zhang model to mockup structural shapes and try to fit around the machine during access periods. Photos of the fitups will be taken to illustrate fitup
	Perry	Running short on workstations for drafting and possibly ANSYS licernss to support analysis	Mar 12, 2009	Mar 11, 2009	Completed
	Egebo	Progress on the Primivera entry of the plan	Completed		Updated 3/4 Schedule is out, Raki input is available will begin statusing against the schedule
	Neumeyer	General Requirements Document - DRAFT (Signed off by?)	Feb 28, 2009		2/25: Masa and Jon have it for approval. On track.