

Meeting Notes

	Item	Respon.	Date Assigned	Due Date	Status	Date Closed	Status Date	Status / Notes
▼ 0. New								
	New May 27th							
	<ul style="list-style-type: none"> Jim C TF joint design model. Need to assess the access for the bolt arrangement. Still need to decide on the up/down symmetry of the welded stub (long/long or long/short) Danny showed latest version of the NB VV interface plug PF 3 +/- 480 may be driving the stresses in the ring (Check with Neumeyer if that is realistic.) 	Titus					May 27, 2009	
▼ 1. Project								
	<ul style="list-style-type: none"> Statement of Work for power systems PSCAD simulation tool outsourcing Meighan working on Keystone tests of the OH conductor to verify as extruded shape OH Coil Cooling/Conductor needs to be optimized 	Neumeyer			Working		Apr 29, 2009	
	<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. 	Chrzanowski					May 27, 2009	Working setting up for tests. Ordering material.
	<ul style="list-style-type: none"> OH Coil Cooling/Conductor needs to be optimized 	Dudek	-	May 15, 2009			May 13, 2009	Can cooling time be reduced from 20 minutes to 15 minutes or 10 minutes? (Need to reassign: Ali Zolfighari)
	<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. 	Hatcher	-	Apr 2, 2009	Working		May 6, 2009	Rerunning with new data, about half way through runs. Look pretty good. In the process of running the benchmarks against actual NSTX data.
▼ 2. Design Requirements								
	<ul style="list-style-type: none"> A more limited OH and PF operating envelope needs to be developed for the design basis assumption A coil protection system needs to be incorporated into the project plans to ensure that the envelope is suitably constrained. 	Neumeyer	Mar 1, 2009	Apr 15, 2009	Working		May 6, 2009	Made a lot of progress need one more meeting.
	<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. 	Neumeyer	-	Plan by 5/1	Working		Apr 8, 2009	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. Analysis								
	<ul style="list-style-type: none"> HAN has developed a model of the TF Turn with cooling 						Apr 29, 2009	Need to have Neumeyer verify the currents that HAN is using in the model
	<ul style="list-style-type: none"> Develop concept #4 including fastener details and design of outer loop with adequate cross section so that it can be analyzed using ANSYS Document OOP and IP loading Ali Z working on the OH Cooling analysis. Expect to be done by end of June 	Heitzenroeder	Apr 6, 2009		working		Apr 23, 2009	
	<ul style="list-style-type: none"> HAN needs to run confirmation of hoop tension by adding in the vertical field from Hatcher once he gets the coil dimensions from Bruce Paul (Jim C. to take action) 	Titus						
	<ul style="list-style-type: none"> SRI ran the OH Hoop stress model. Stresses are high at more than 160 Mpa. 	Chrzanowski					May 13, 2009	Hatcher just iterating data with designer to develop the model. Han to run stress pass to compare with Titus's results in same area. (Looking for maximum vertical field)
	<ul style="list-style-type: none"> SRI ran the OH Hoop stress model. Stresses are high at more than 160 Mpa. Titus next week to return to PPPL to work on developing a plan to bring all of the models together. 	Sri					May 13, 2009	New Run indicates stresses that are acceptable with the insulation between the OH and TF bundle.
	<ul style="list-style-type: none"> Han presented the latest outer TF leg support analysis. Looks like cross bracing is only needed in four locations. 						May 13, 2009	Have begun to piece together the models from individuals working on the analysis.
	<ul style="list-style-type: none"> Han presented the latest outer TF leg support analysis. Looks like cross bracing is only needed in four locations. 	Zhang	-	Mar 25, 2009	Working		May 13, 2009	For now we will stay with the existing "diamond brace" design. Mangra looking at space needs and has some ideas on how to minimize space impact of the structural design. (This analysis still needs to be checked) The latest analysis shows that with some simple "ring" reinforcement at the TB level and diagonal bracing at four bays we reduce the outer TF connection reactions to manageable levels. Han, just need loads in ring and cross brace members. Dudek provided cross section information of stainless steel members for next step analysis
	<ul style="list-style-type: none"> SRI reran the VV stresses using the gusset. Shows little change in stresses. Will try to rerun. SRI has the model with the NB Plug hole in the VV wall. The stresses are 60-80 MPa with the plug. Need to monitor distortion during the welding operations 						May 6, 2009	Danny to get involved with gusset and reinforcement of the VV.
▼ 5. Umbrella & Outer TF Leg								
	<ul style="list-style-type: none"> The first concept of the NSTX TF Outer Leg support system has no insulating breaks. Do we need to insulate?? Need to develop method to seal existing leaks in Outer TF Leg cooling passages Use borescope to view the inside of the leak in the TF Outer leg cooling passage (during the outage). 						Apr 29, 2009	Menard can calculate the impact once he gets the resistance of the structure
	<ul style="list-style-type: none"> Need to develop method to seal existing leaks in Outer TF Leg cooling passages 	Chrzanowski	-				May 27, 2009	Requiation is out
	<ul style="list-style-type: none"> Use borescope to view the inside of the leak in the TF Outer leg cooling passage (during the outage). 	Chrzanowski	Oct 1, 2009	TBD			Apr 8, 2009	Plan on doing this during an outage.
▼ 6. VV Structure								
	<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. 	Heitzenroeder	-	Ongoing			Mar 25, 2009	Need to look at the strength of the vv with ports (Global Model) Need to rerun with 360 degree model to refine the analysis.
▼ 8. Completed								
	<ul style="list-style-type: none"> Chrzanowski to ramp up designers to meet the project resource requirements 	Chrzanowski	-	Completed	Working		May 6, 2009	Full complement of designers on board