

**Meeting Notes**

	Status Date	Item	Status / Notes	Due Date	1
▼ Dudek					
	Jul 8, 2009	<ul style="list-style-type: none"> <li>• Statusing tomorrow: Be prepared with filled out status sheets</li> </ul>			
	Jul 8, 2009	<ul style="list-style-type: none"> <li>• General Requirements Discussion: Should we consider limiting power into coil system to protect the structure instead of designing and building structure to withstand worst case fault conditions.</li> </ul>	Plan is to use max PS power levels first to determine if a structure upgrade is possible (Scenario A). If scenario A is impractical loads will be calculated using nominal coil currents plus a safety factor (Scenario B).		
▼ Ali Z					
	Jun 24, 2009	<ul style="list-style-type: none"> <li>• Is now starting on the Axisymmetric Model.</li> </ul>			4. TF Bundle and J
▼ Chrzanowski					
	Jul 1, 2009	<ul style="list-style-type: none"> <li>• Meighan working on Keystone tests of the OH conductor to verify as extruded shape</li> </ul>	Started the keystone tests, phase 1 is completed, phase 2 is next in about 2 weeks when machined conductor is available		1. Project
	Jul 8, 2009	<ul style="list-style-type: none"> <li>• Need to develop method to seal existing leaks in Outer TF Leg cooling passages</li> </ul>	Looking at replacing the leaking leg with a new leg. Initial review indicates the leg is in an accessible location.		5. Umbrella & Oute
	Jul 1, 2009	<ul style="list-style-type: none"> <li>• New PF1A, B &amp; C dimensions are being laid out by Lew Morris for review by Neumeyer, Menard, et al.</li> </ul>	New locations and sizes have been approved. Still finalizing the PF1c coil.		0. New
	Jul 8, 2009	<ul style="list-style-type: none"> <li>• Need to supply SRI with Solid model (meshable) of passive plates</li> </ul>			
	Jun 24, 2009	<ul style="list-style-type: none"> <li>• Use borescope to view the inside of the leak in the TF Outer leg cooling passage (during the outage).</li> </ul>	Plan on doing this during an outage. Erik is planning on doing it early in the outage	TBD	5. Umbrella & Oute
▼ Denault					
	Jul 1, 2009	<ul style="list-style-type: none"> <li>• Martin to look at where the pump is in it's performance curve and whether it can be modified for 600 psig head</li> </ul>	Martin has started to look at this and will be developing a concept for the August Review		3. Analysis
▼ Han					
	Jul 1, 2009	<ul style="list-style-type: none"> <li>• Working on EM diffusion model and OTF Structure</li> </ul>	Running model still need to add more detail to determine solution		
	Jun 24, 2009	<ul style="list-style-type: none"> <li>• OTF Structure: Han is adding radius rods and quantifying loads, Truss design &amp; analysis,</li> <li>• Inplane, Axisym OOP, Non-axisym OOP</li> </ul>	6/24: Hans analysis indicates the stresses in the OTF conductor do not require reinforcement. Copper stresses are around 130 MPa vs 200+ MPa Yield for 1/4 hard copper.		0. New
	Apr 29, 2009	<ul style="list-style-type: none"> <li>• HAN has developed a model of the TF Turn with cooling</li> </ul>	Need to have Neumeyer verify the currents that HAN is using in the model		3. Analysis
▼ Hatcher					
	Jun 17, 2009	<ul style="list-style-type: none"> <li>• <b>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.</b></li> </ul>	<b>Results were distributed waiting for feedback and confirmation before distributing further. Will send out results to rest of distribution.</b>	Jun 26, 2009	1. Project
	Jul 8, 2009	<ul style="list-style-type: none"> <li>• Need to run influence coefficients for all of the coils. Worst case current scenarios based on power supply outputs.</li> </ul>	Distributed	7/2/09 12:00 AM	1. Project
	Jul 8, 2009	<ul style="list-style-type: none"> <li>• Gave SRI more points</li> </ul>	Three time points 81 x 81 grid were delivered to SRI for use in analysis		
▼ Mangra					
	Jul 1, 2009	<ul style="list-style-type: none"> <li>• Danny is starting to look at the PF coil support structure and determine what capacity is available. Can we support the coils as groups to minimize forces on vessel?</li> </ul>	PF 5 alone creates forces between upper and lower ~ 400k pounds. If the forces for PF 5 are too high for the VV to bear we would change the operating scenarios to accommodate.		
▼ Menard					
	Apr 29, 2009	<ul style="list-style-type: none"> <li>• The first concept of the NSTX TF Outer Leg support system has no insulating breaks. Do we need to insulate??</li> </ul>	Menard can calculate the impact once he gets the resistance of the structure		5. Umbrella & Oute
▼ Perry					
	Jun 24, 2009	<ul style="list-style-type: none"> <li>• Han now has the latest set of currents, displacements of the outer TF Legs are on the order of 16-17mm. Is that a concern for the machine access? What is allowable?</li> </ul>	E. Perry believes the 16-17mm deflections can be accommodated. Need Jim C. to confirm.		0. New
▼ Raki					
	Jun 24, 2009	<ul style="list-style-type: none"> <li>• Statement of Work for power systems PSCAD simulation tool outsourcing</li> </ul>	This work is about 50% complete		1. Project
▼ Sichta					
	Jul 1, 2009	<ul style="list-style-type: none"> <li>• Has started to layout the cost and schedule for the I&amp;C upgrade associated with the CSU.</li> </ul>	First cut at the cost and schedule estimate		
▼ Sri					
	Jul 1, 2009	<ul style="list-style-type: none"> <li>• Disruption Analysis of Vessel and Internals using 3d 360° model of VV.</li> </ul>	Now have all on the required input information and now we only need to enter the data and run the model		0. New
	Jun 10, 2009	<ul style="list-style-type: none"> <li>• SRI ran the OH Hoop stress model. Stresses are high at more than 160 Mpa.</li> </ul>	May extract a few more things from the model but this work will be complete with writeup. New Run indicates stresses that are acceptable with the insulation between the OH and TF bundle.		3. Analysis
▼ Titus					
	Jul 1, 2009	<ul style="list-style-type: none"> <li>• Global Model, Running, not merged well, corrections being made.</li> </ul>	HM -Passive Plates & Upper and Lower VV, Han - TF Loop Geometry, Sri - Mid Plane Ports, HM/Sri - VV Support Structure		0. New
		<ul style="list-style-type: none"> <li>• TF Bundle conductor stub corner analysis:</li> </ul>	Still showing high stress above stub at inner radius		0. New
		<ul style="list-style-type: none"> <li>• Document OOP and IP loading</li> </ul>			3. Analysis
▼ Willard					
	Jul 1, 2009	<ul style="list-style-type: none"> <li>• Tom Willard is working on the local mechanical details of the bolted connection, flag. Using .3 Tesla field from Hatcher.</li> </ul>	Flex joint stresses are high in local areas. Looking at changing lamination thicknesses to improve the stresses.		3. Analysis
▼ Woolley					
	Jun 10, 2009	<ul style="list-style-type: none"> <li>• A coil protection system needs to be incorporated into the project plans to ensure that the envelope is suitably constrained.</li> </ul>	Reassigned to Woolley	Jun 30, 2009	2. Design Requirem