	NCSX Work Approval Form (W	<u>/AF)</u>
Job Number	Dimensional Control Coordination : 8205 mensional Control Coordination	
Description:	Support design and construction activities in the realizate requirements by developing strategies and procedures their implementation.	
Schedule:	See Attachment	
Approvals:		
	Job Manager	Date
	Responsible Line Manager	Date
	Project Manager	Date
	Engineering Department Head	Date

NCSX June 2007 ETC TABLE I - Design Labor

WBS Number: 825

WBS Title: Dimensional Control Coordination

Job Number: 8205

Job Title: Dimensional Control Coordination

Job Manager: Bob Ellis

Job WBS	Function	Resource Requirements	Basis of Estimate
205 - Dimensional	Control (Ellis)		
825 - Dimensio	onal Control Coordination		
	Develop dimensional control plan for Station 2. Support field activities.	480 hours for Ellis leading to development of dimensional control plan for Station 2.	Based on consideration of detailed steps to accomplish tasks. Station 2 is expected to be the most demanding for the dimensional control effort.
		240 hours for Ellis, 240 hours for EA/EM engineer during operations on Station 2 to support field activities.	
	Develop dimensional control plan for Station 3. Support field activities.	160 hours for Ellis to develop dimensional control plan for Station 3.	Station 3 is expected to less demanding because fundamentals and common issues will have been worked out on Station 2.
		240 hours for Ellis, 240 hours for EA/EM engineer during operations on Station 3 to support field activities.	
	Develop dimensional control plan for Station 5. Support field activities.	320 hours for Ellis to develop dimensional control plan for Station 5.	Station 5 dimensional control elements include alignment of ports and initial fitup of TF coils.
		160 hours for Ellis, 160 hours for EA/EM engineer during operations on Station 5 to support field activities.	
	Develop dimensional control plan for final assembly. Support field activities.	480 hours for Ellis to develop dimensional control plan for final assembly.	Final assembly includes fitup of three field period and final placement of TF coils, PF coils and CS assembly.
		240 hours for Ellis, 240 hours for EA/EM engineer during final assembly to support field activities.	

NCSX June 2007 ETC TABLE I - Materials and Subcontracts

	•	•	The state of the s	'	Į.	
Description:	None					

NCSX June 2007 ETC TABLE III - Fabrication and Assembly

WBS Nur	mber: 825			
WBS Title: Dimensional Control Coordination				
Job Num	ber: 8205			
	: Dimensional Control Coordina	ation		
	ager: Bob Ellis			
Fabrication and Assembly None		None		

NCSX June 2007 ETC TABLE IV - Uncertainty of Estimate and Residual Risk Assessment

WBS Number: 825

WBS Title: Dimensional Control Coordination

Job Number: 8205

Job Title: Dimensional Control Coordination

Job Manager: Bob Ellis

Uncertainty of the Estimate				Uncertainty	
	<u>High</u>	<u>Medium</u>	Low	Range (%)	Comments/Other Considerations
Design Maturity			X	-30%/+60%	Dimensional control is critical to the assembly processes - techniques still being developed.
Design Complexity	X			-30 /0/+00 /0	Tight tolerances are especially challenging

Note: High/Medium/Low uncertainty assessment from Job Manager. Uncertainty range based on AACEI recommended practice 18R-97 as amended for NCSX.

<u>Residual Impacts</u>		Likelihood of			Cost Impact		Schedule Impact	
Job	Risk Description	Occurring	Mitigation Plan	Basis of estimate	Low	High	Low	High
personn	prolonged unavailability of certain key nel (Ellis) from the project could substantially the schedule.	VU	An EA/EM engineer has been budgeted to provide support to Ellis in Dimensional Control Coordination during peak demands and pick up the slack for Ellis should he become unavailable.	No impact on FPA cost because impacted personnel	+ \$0	+ \$0	+ 0.00	+ 0.50

Notes:

- [1] Low cost and schedule impacts are considered the minimum (0-percentile) impacts should the event occur. High cost and schedule impacts are considered the maximum (100-percentile) impacts should the event occur
- [2] Cost impacts should be entered as loaded costs

 Cost impacts should NOT include standing army costs which are separately calculated from the schedule impact
- [3] The schedule impacts should be entered as the min and max impacts on the critical path. If there is no critical path impact then the schedule entries should be zero.
- [4] Likelihood of occurrence should be entered consistent with our risk classification methodology, i.e.

 VL= Very Likely (P>80%), L=Likely (80%>P>40%), U=Unlikley (40%>P>10%), VU=Very Unlikely (P<10%), NC=Non-credible (P<1%)