	NCSX Work Approval Form (WAF)	
Job Number Job Title: De	Design Integration	
Description:		
	 Responsibilities include: Configuration development and integration support for all design and Participating in design reviews. Administering the CAD database of project models and drawings. Re CAD models and drawings. Establishing Intralink procedures and privi Providing support to the metrology and dimensional control efforts by data in conjunction with CAD models of the parts and assemblies 	eviewing and promoting leges.
Schedule:	See Attachment	
Approvals:		
	Job Manager	-
	Responsible Line Manager	-
	Project Manager	-
	Engineering Department Head	

VBS Number: 823 VBS Title: Design Integration Iob Number: 8203 Iob Title: Design Integration Iob Manager: Tom Brown									
ob WBS 203 - Desig	Function n Integration (Brown)	Resource Requirements	Basis of Estimate						
FY08 -	Station 2 and 3								
	Configuration development and integration support	670 hours for Brown 290 hours for a designer (Morris) 640 hours for a designer (Upcavage)	This effort is consistant with the necessary configuration development and integration support for all design and construction activities. The design support covers design activities to update drawings per shop generated mark-ups.						
	CAD administration	5% LOE for Brown	This LOE is consistent with project experiences associated with the drawing review/Intralink administration process and appropriate through 1st Plasma.						
FY09 -	Station 3 and 5								
	Configuration development and integration support	80% LOE hours for Brown 40% LOE hours for Smith 50% LOE hours for Avasarala 80% LOE hours for designer (Morris) 50% LOE hours for designer (Upcavage)	This effort is consistant with the necessary configuration development and integration support for all design and construction activities. The design support covers design activities to update drawings per shop generated mark-ups.						
	CAD administration	5% LOE for Brown	This LOE is consistent with project experiences associated with the drawing review/Intralink administration process and appropriate through 1st Plasma.						
FY10 -	Station 5 and 6								
	Configuration development and integration support	70% LOE hours for Brown 40% LOE hours for Smith 40% LOE hours for Avasarala 80% LOE hours for designer (Morris)	This effort is consistant with the necessary configuration development and integration support for all design and construction activities. The design support covers design activities to update drawings per shop generated mark-ups.						
	CAD administration	5% LOE for Brown	This LOE is consistent with project experiences associated with the drawing review/Intralink administration process and appropriate through 1st Plasma.						
FY11 -	Station 6 and test cell								
	Configuration development and integration support	70% LOE hours for Brown 40% LOE hours for Smith 40% LOE hours for Avasarala 80% LOE hours for designer (Morris)	This effort is consistant with the necessary configuration development and integration support for all design and construction activities. The design support covers design activities to update drawings per shop generated mark-ups.						
	CAD administration	5% LOE for Brown	This LOE is consistent with project experiences associated with the drawing review/Intralink administration process and appropriate through 1st Plasma.						

Description:

None

NCSX June 2007 ETC TABLE III - Fabrication and Assembly

Fabricati	ion and Assembly	None					
			 		<u> </u>		

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

WBS Number: 823 WBS Title: Design Integration Job Number: 8203 Job Title: Design Integration Job Manager: Tom Brown

Uncertainty of the Estimate	<u>High</u>	<u>Medium</u>	Low	<u>Uncertainty</u> Range (%)	Comments/Other Considerations
Design Maturity		x		-15%/+25%	
Design Complexity		x		-1370/+2370	

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> Cost Impact Schedule Impact Likelihood of Job Risk Description Occurring Mitigation Plan Basis of estimate Low High Low High										
Likelihood of	Residual Impact	<u>s</u>								
						Cost I	mpact	Schedule	Impact	
Job Risk Description Occurring Mitigation Plan Basis of estimate Low High Low High			Likelihood of				-		-	
	Job	Risk Description	Occurring	Mitigation Plan	Basis of estimate	Low	High	Low	High	

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%)</p>