

NCSX Work Approval Form (WAF)

WBS Number: 826
WBS Title: Plant Design
Job Number: 8215
Job Title: Plant Modeling
Job Manager: Erik Perry

Description:

Allocate space within the NCSX Facility which includes the Test Cell and adjacent areas.
Develop models and drawings to define the routing and location of equipment in the Test Cell.

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

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Job	WBS	Function	Resource Requirements	Basis of Estimate
8215 - Plant modeling (Perry)	826 - Plant Modeling	Updating of NCSX test cell general arrangement drawings and distribution of them to all NCSX WBS managers on a monthly basis. This will include negotiating all real estate allocations in the test cell.	<p>10 days for a mechanical designer (Morris) and 5 days for E. Perry to become acquainted with the plant model and bring it up to date starting in August 2007.</p> <p>One man-day per month for E. Perry, one half man-day per month for A. Langella, and one man-day per month for a mechanical designer (Morris) through CD-4.</p>	Based on the labor required to update NSTX general arrangement drawings up until their first plasma.

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

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<u>Uncertainty of the Estimate</u>					
	<u>High</u>	<u>Medium</u>	<u>Low</u>	<u>Uncertainty Range (%)</u>	<u>Comments/Other Considerations</u>
Design Maturity		X			
Design Complexity			X	-10%/+15%	

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

<u>Residual Impacts</u>									
<u>Job</u>	<u>Risk Description</u>	<u>Likelihood of Occurring</u>	<u>Mitigation Plan</u>	<u>Basis of estimate</u>	<u>Cost Impact</u>		<u>Schedule Impact</u>		
					<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>	
8215	None								

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%)