

NCSX Work Approval Form (WAF)

WBS Number: 51

WBS Title: Networking Infrastructure

Job Number: 5101

Job Title: Networking Infrastructure

Job Manager: Paul Sichta

Description:

The TCP/IP networking infrastructure will provide the common backbone for all data acquisition, and I&C communications.

Schedule:

See Attached

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: 51													
WBS Title: Networking Infrastructure													
Job Number: 5101													
Job Title: Networking Infrastructure													
Job Manager: Paul Sichta													
Description:													
<i>Title I and II</i>													
FY07\$K													
Activity ID	Activity Description	41MS	43MS/CC	48MS	37STK	35TRVL	ECEM	ECTB	EMTB	EASB	EEEM	EETB	Basis of Estimate
51-10	Preliminary Design						30						Originally manhours estimate based on NSTX experience. However, this estimate has been updated to reflect experience of experience on other similar networking installation projects.
51-20	Final Design						30						
51-30	Procurement	\$29.8K	\$10.0K		\$4.0K		20						
51-50	Installation						60	20	490	240			
51-60	Test						20	20					
		\$29.8K	\$10.0K	\$0.0K	\$4.0K	\$0.0K	160	40	490	240	0	0	

NCSX June 2007 ETC
TABLE II - Materials and Subcontracts

WBS Number: 51				
WBS Title: Networking Infrastructure				
Job Number: 5101				
Job Title: Networking Infrastructure				
Job Manager: Paul Sichta				
Materials and Subcontracts (M&S)				Basis of Estimate
Description:				
See Table I				

NCSX June 2007 ETC
TABLE III - Fabrication/Assembly Installation

WBS Number: 51									
WBS Title: Networking Infrastructure									
Job Number: 5101									
Job Title: Networking Infrastructure									
Job Manager: Paul Sichta									
In-house Fabrication and Assembly and Installation									
See Table I									

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

WBS Number: 51																				
WBS Title: Networking Infrastructure																				
Job Number: 5101																				
Job Title: Networking Infrastructure																				
Job Manager: Paul Sichta																				
Uncertainty of the Estimate																				
			<u>High</u>	<u>Medium</u>	<u>Low</u>	<u>Uncertainty Range (%)</u>	<u>Comments/Other Considerations</u>													
	Design Maturity			X			Although PDR, some more design needed to finalize.													
	Design Complexity				X	-10%/+15%	Standard components													
Note: High/Medium/Low uncertainty assessment from Job Manager. Uncertainty range based on AACEI recommended practice 18R-97 as amended for NCSX																				
Residual Impacts																				
																			Cost Impact	Schedule
Job	Risk Description					Likelihood of Occurring	Mitigation Plan			Basis of estimate			Low	High	Low					
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 man-hours (by demographic) and M&S direct cost under basis of estimate Cost impacts should NOT include standing army costs which are separately calculated from the schedule impac Project control is responsible for quantifying the low and high cost impacts based on the labor hours and M&S identific																			
[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%																			