

**NCSX June 2007 ETC  
TABLE I - DESIGN LABOR**

<b>WBS Number: 186</b>														
<b>WBS Title: Tooling Design &amp; Fabrication</b>														
<b>Job Numbers: 1803 &amp; 1805</b>														
<b>Job Titles: FPA Tooling &amp; Constructibility (1803)</b>														
<b>Job Titles: FPA Hardware &amp; Fixture Procurement (1805)</b>														
<b>Job Manager: Tom Brown</b>														
<b>Description:</b>														
<b>TASK DESCRIPTION</b>							<b>41MS</b>	<b>48MS</b>	<b>EAEM (Fan)</b>	<b>EAEM (Brown)</b>	<b>EADM (Morris)</b>		<b>Basis of Estimate</b>	
<b>Design (Job 1803)</b>														
<b>Stage 3</b>														
<b>Details of remaining Manhour needs</b>														
Complete SISSCO/support frame interface											0		<b>Work Completed</b>	
Revise drawings as needed per FDR input											48		Based on previous experience on Station 1 earlier work on original fixture	
Flange bolt/VV support access platform											120		Based on previous experience on Station 1 earlier work on original fixture	
Transportation study (move between test cells)											40		Based on previous experience on Station 1 earlier work on original fixture	
VV/MC clearance report (for VVSA1, 2 and 3)										72			Based on previous experience on Station 1 earlier work on original fixture	
Generate laser trace drawing for each screen											80		Based on previous experience on Station 1 earlier work on original fixture	
Assembly sequence plan and Installation procedure										40			Based on previous experience on Station 1 earlier work on original fixture	
Analyze single point lift							40		16				Based on previous experience on Station 1 earlier work on original fixture	
<b>Subtotal Stage 3</b>									<b>40</b>	<b>128</b>	<b>288</b>			
<b>Stage 5</b>														
<b>Details of remaining Manhour needs</b>														
Complete FP support and platform models											240		Based on previous experience on Station 1 earlier work on original fixture	
Complete platform models											80		Based on previous experience on Station 1 earlier work on original fixture	
Complete dwg package & release for fabrication											120		Based on previous experience on Station 1 earlier work on original fixture	
Complete models and dwgs for test cell metrology layout											160		Based on previous experience on Station 1 earlier work on original fixture	
Design follow-up and preliminary analysis										60			Based on previous experience on Station 1 earlier work on original fixture	
Perform structural analysis							60						Based on previous experience on Station 1 earlier work on original fixture	
<b>Subtotal Stage 5</b>									<b>60</b>	<b>60</b>	<b>600</b>		Based on previous experience on Station 1 earlier work on original fixture	
<b>Final Machine Assembly Fixture Design</b>														
<b>Details of remaining Manhour needs</b>														
Complete Stage 6 support											240		Based on previous experience on Station 1 earlier work on original fixture	
Complete platform models											80		Based on previous experience on Station 1 earlier work on original fixture	
Complete dwg package & release drawings											160		Based on previous experience on Station 1 earlier work on original fixture	
Design follow-up and preliminary analysis										120			Based on previous experience on Station 1 earlier work on original fixture	
Perform structural analysis							120						Based on previous experience on Station 1 earlier work on original fixture	
<b>Subtotal Final Machine Assembly Fixtures Design</b>									<b>120</b>	<b>120</b>	<b>480</b>		Based on previous experience on Station 1 earlier work on original fixture	
<b>TOTAL REMAINING HOURS (Job 1803)</b>									<b>220</b>	<b>308</b>	<b>1368</b>			
<b>Design (Job 1805) - NONE</b>							<b>1896</b>							
							1896							