

**NCSX Preliminary Design Cost Estimate Summary Form
(Attachment 1a)**

SUMMARY DESCRIPTION

WBS Number: 453	Title: Systems Testing (PTPs)
Originator: Raki Ramakrishnan	
<u>Description</u>	
<p>This WBS element consists of the effort to conduct all systems-related preoperational testing, including:</p> <ul style="list-style-type: none">• DC circuit hipots and impedance measurements• Electrical interlocks• Overall systems testing, including:<ul style="list-style-type: none">○ kirk key interlock testing,○ instrumentation test & calibration,○ real time control system testing,○ coil protection system testing,○ ground fault monitor testing, coil power supply dummy load testing, and○ trim coil power supply dummy load testing	
<p><u>Description of Existing Equipment/Facilities to be Reused:</u> None.</p>	
<p><u>Description of Major Modifications Required to Existing Equipment/Facilities:</u> None.</p>	