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

SUMMARY DESCRIPTION

WBS Number: 12	Title: Vacuum Vessel Systems
Originator: Paul Goranson	
Description	
The vacuum vessel provides a vacuum boundary around the plasma chamber suitable for high vacuum conditions; structural support for all internal hardware and access for Auxiliary Systems (WBS!2) and Diagnostics (WBS!3).	
This WBS element consists of all the following sub-elements: Vacuum Vessel Assembly (WBS 121); Vacuum Vessel Thermal Insulation (WBS 122); Vacuum Vessel Heating and Cooling Distribution Systems (WBS 123); Vacuum Vessel Supports (WBS 124); and Vacuum Vessel Local I&C (WBS 125).	
Description of Existing Equipment/Facilities to be Reused: None	
Description of Major Modifications Required to Existing Equipment/Facilities: None	