

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

SUMMARY DESCRIPTION

WBS Number: 23	Title: Wall Conditioning Systems
Originator: W. Blanchard	
<p>NOTE: These systems will not be installed for first plasma.</p> <p><u>Description</u></p> <p>This WBS element consists of the effort and systems to provide wall conditioning and impurity control. Included are::</p> <ul style="list-style-type: none">• Glow Discharge Cleaning (WBS 231);• Boronization Systems (WBS 232); and• Lithiumization Systems (WBS 233). <p>Both WBS 232 (Borization) and WBS 233 (Lithiumization) are upgrades.</p> <p><u>Description of Existing Equipment/Facilities to be Reused:</u> PBX legacy equipment will be used as available.</p> <p><u>Description of Major Modifications Required to Existing Equipment/Facilities:</u> The glow discharge cleaning system will be essentially a new installation using existing components as available. The control of the GDC system will be with a stand alone PLC.</p>	