

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

SUMMARY DESCRIPTION

WBS Number: 61	Title: Water Cooling Systems
Originator: Larry Dudek	
<u>Description</u>	
<p>This WBS element includes all the effort required to bring the existing CS Water Cooling System to full operational capability and to add cooling loops as required for NCSX subsystems. This WBS element consists of the following subsystems:</p> <ul style="list-style-type: none">• C-Site Cooling Water (WBS 611)• Neutral Beam Water Cooling (WBS 612);• Vacuum Pumping Water Cooling (WBS 613);• Bakeout Water System (WBS 614); and• Diagnostics Water Cooling (WBS 615).	
<p><u>Description of Existing Equipment/Facilities to be Reused:</u> The existing C-site water-cooling systems will be reused to the maximum extent practical.</p>	
<p><u>Description of Major Modifications Required to Existing Equipment/Facilities:</u> Modifications and repairs to the existing C-site water systems will be needed.</p>	

Date: 9/17/03