

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

SUMMARY DESCRIPTION

WBS Number: 433	Title: D-Site DC Systems
Originator: Raki Ramakrishnan	
<u>Description</u>	
<p>This WBS element consists of the effort to design and reconfigure (as needed) existing experimental D-Site DC systems. Reconfiguration (as needed) of the outputs of the NCSX- dedicated Transrex power supplies via new power cabling and new DC current limiting reactors. Modification of existing cabling and provision of a common tie points for the shared systems via 1000 MCM cable. Dummy load testing of NSTX systems after reconnection. Provision of isolating switches provided for opening the circuit for troubleshooting purposes at the FCPC.</p>	
<p><u>Description of Existing Equipment/Facilities to be Reused:</u> Some of the existing cabling on the 1st floor of the FCPC building will be rerouted in order to place the Transrex power supplies in the desired electrical configuration.</p>	
<p><u>Description of Major Modifications Required to Existing Equipment/Facilities:</u> Power cabling in the East-West wing is significantly altered. Existing office areas are removed from the 2nd floor of the FCPC (by WBS 61) to make room for the installation of the new DC current limiting reactors, isolating switches, and power cabling.</p>	