

PART I - DESCRIPTION

WBS Number: 441	Title: Electrical Interlocks
Originator: C Neumeyer	
<p><u>Description</u></p> <p><u>General Description of Work to be Performed:</u></p> <p>An electrical interlock system is designed and installed which ensures the proper configuration of the power system in accordance with the commanded state from the NCSX control room and access control systems, and which provides coordinated fast fault response of the power supplies when faults are detected. The system is implemented by Programmable Logic Controllers (PLCs) at various C-site and D-site locations interconnected through a fiber optic network. System must be compatible with both NCSX and NSTX operations, at least for the shared power supplies.</p> <p><u>Description of Existing Equipment/Facilities to be Reused:</u></p> <p>None.</p> <p><u>Description of Major Modifications Required to Existing Equipment/Facilities:</u></p> <p>System will replace some fraction of the existing Hardwired Control System logic of the D-site power supply system. Some modifications may be required to the Transrex and Robicon power supply local controls to be compatible with the PLC scheme.</p>	