

PART I - DESCRIPTION

WBS Number: 56	Title: NCSX Central Safety Interlock System
Originator: G. E. Oliaro	
<p><u>Description</u></p> <p>-</p> <p><u>General Description of Work to be Performed:</u> The Central Safety Interlock System will provide system wide coordination of personnel and hardware interlocks. Its primary man machine interface will be EPICS. The Central Safety Interlock System will be a fail-safe, hybrid system. Mechanical components and hardwired devices will provide primary protective functions. Redundant PLC technology with redundant sensors will be used to achieve effective, safety system capabilities. Each NCSX high-energy subsystem will interface with the Central Safety Interlock System. A badge reader access control system will restrict access to the Test Cell for only authorized/trained personnel. Critical components will be powered by UPS and Standby power.</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p><u>Description of Existing Equipment/Facilities to be Reused:</u> These subsystems will make use of their existing D-site and C-site subsystem safety interlocks. It will be assumed that all existing subsystem safety interlocks will have built in redundancy and self-protection.</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p><u>Description of Major Modifications Required to Existing Equipment/Facilities:</u> No major modifications to existing D-Site subsystem safety interlocks will be required.</p> <p>-</p> <p>-</p> <p>-</p>	