NCSX PRELIMINARY DESIGN PART I - DESCRIPTION

WBS Number: 54	Title NCOV Facility Timing and
WBS Number: 54	Title: NCSX Facility Timing and Synchronization
Originator: G. E. Oliaro	
Description	
Timing System, developed in the late 70's, with only requirement for a 10 MHZ time base and an off-the-sl An internally developed Field Programmable Gate A	required for NCSX. The old CAMAC based TFTR a 1MHz time base will not be adequate for NCSX. A helf or existing solution for NCSX is highly desirable. Array (FPGA) PCI design running at 10MHz will be perational experience on NSTX with this system and
Specifications: * Timing granularity of ~100ns * Overall accuracy +/- 1us with contention * 128 or greater event triggers * Fiber optic broadcast transmission	
This activity will provide the engineering design and write driver software.	test of a PCI clock encoder module and manpower to
Description of Existing Equipment/Facilities to be Re No existing equipment will be used.	used:
-	
-	
-	
- Description of Major Modifications Required to Exist	
No modifications to existing equipment will be requir	ed.
-	
-	