

PART I - DESCRIPTION

WBS Number: 631	Title: New LN₂ System
Originator: Art Klink	
<u>Description</u>	
<u>General Description of Work to be Performed:</u>	
<p>Design and install a system to supply up to 15,000 gallons per day liquid nitrogen to the NCSX cryostat and neutral beam line including 7100 gallons for cooldown. The basis for the design is an initial dissipative load of 33 MJ upgradeable to 76 MJ with 48 pulses per day.</p> <p>Conceptually, the design will consist of one 15,000 gallon LN tank and associated control valves, a transfer line to the cryostat and means to control icing and safely exhaust the vaporized nitrogen to the atmosphere. If required, a second tank can be installed at a later date.</p>	
<u>Description of Existing Equipment/Facilities to be Reused:</u>	
<u>Description of Major Modifications Required to Existing Equipment/Facilities:</u>	

