NCSX Work Approval Form (WAF) WBS Number: 21 WBS Title: Gas Fueling System Job Number: 2101 Job Title: Fueling System Job Manager: Bill Blanchard Description: The MIE project scope for the Gas Fueling System (WBS 211) is limited to a single gas injector system capable of injecting any one of the species of interest, H2, D2, or He gas, into the plasma at a time. The proposed fueling system consists of a gas delivery from a single gas cylinder and a gas injection portion consisting of one piezo electric pulse valve, one manual interface valve located at one of the upper P12 port covers. The pulse valve will be operated by a valve driver controlled by the NCSX computer system (greater than 50 T-I/sec fueling rate). In its final configuration, the system will have 2 to 4 injector systems capable of injecting H2, D2, or He gas into the plasma. The controls will be upgraded with a modern PLC controlling this and other systems. Schedule: See Attached Approvals: Job Manager Date Responsible Line Manager Date **Project Manager** Date

Date

Engineering Department Head