

ITOP 5-2-621

CASE BURST TESTING OF SOLID PROPELLANT ROCKET MOTORS

SCOPE

This ITOP provides procedures for the safe conduct of solid propellant rocket motor case burst tests. Two test methods are presented; hydrostatic burst and dynamic burst. Burst testing is conducted to verify that the rocket motor meets the design requirements and safety factors specified by the designers / developers. Testing guidance is provided with an emphasis on instrumentation and personnel safety. These test procedures may be employed during the research and development, safety assessment, or production phase of the weapon procurement cycle.