



SSC STD 79-010
01 December 1987
Rev. B
18 February 2000

CONCURRENCE SHEET

SSC REQUIREMENTS FOR MATERIALS USED
IN
LOX/GOX SERVICE

Original Signed By:

NASA PROPULSION TEST DATE
ENGINEERING DIVISION

CENTRAL ENGINEERING FILES DATE

1.0 SCOPE

This standard establishes compatibility requirements for materials used in liquid oxygen (LOX) and gaseous oxygen (GOX) service in facilities at John C. Stennis Space Center (SSC).

2.0 REFERENCED DOCUMENTS

NASA STD 6001	Flammability, Odor, and Offgassing Requirements and Test Procedures for Materials in Environments that Support Combustion
NTS 8719.15	NASA Safety Standard for Oxygen and Oxygen Systems (formerly numbered NSS 1740.15)
54000-GM30	SSC Control Drawing: Specification for Materials Used in LOX and GOX Service Exempt from Batch Test Requirements

3.0 REQUIREMENTS

3.1 SAFETY

Performance of procedures shall conform to applicable requirements of NTS 8719.15.

3.2 LOX AND GOX SYSTEMS

All SSC LOX and GOX Fluid Distribution Systems shall be designed and maintained in accordance with the materials selection criteria in NASA STD 6001. The Materials Selection List (MSL) of SSC Control Drawing 54000-GM30 identifies materials that are exempt from the NASA STD 6001 impact (batch) test requirements and specifies the use parameters under which the exemption applies.

3.3 MATERIAL USAGE AGREEMENT (MUA)

If a material is not included on the MSL or its use parameter exceeds that covered by the MSL, then the material shall be used only with the authority of an approved MUA (Form SSC-716). Each MUA shall be prepared with NASA Project Office and applicable NASA Test Stand or Facility Director concurrence and shall be submitted to the Director, NASA Propulsion Test Directorate (PTD), or his designee, for approval.