

ACIS Verification Summary Report

Specification: ACIS Contract End Item Specification

Requirement Number/Title: 3.3.4.1.1 Emergency Landing (VRSD 3.3.4.1.1)

Requirement Statement: The SI shall be designed such that it will not create an STS hazard when subjected to the emergency landing loads specified in paragraph 3.4.1.2 of the Observatory to Science Instrument ICD. Following exposure to these loads, the instrument shall not be required to operate satisfactorily. The structure may yield but not fracture.

Verification Method: BY REVIEW OF DESIGN DOCUMENTATION

Procedure Number:

Configuration:

Cycle Time:

Verification Discussion/Results:

MIT DOCUMENT # 36-01504 REV. B SHOWS THAT DESIGN LIMIT STRESSES FOR THE SS RESULT FROM THE COMBINATION OF THERMAL, VIBROACOUSTIC AND LIFTOFF LOADS. EMERGENCY LANDING LOADS ARE A SMALL FRACTION OF THE ABOVE.

Martin Furey 5-20-97
ACIS Cognizant Engineer Date