HESSI SPACECRAFT
PRE-VIBRATION CLOSEOUT

HSI_MIT_030C

2000-NOV-15

DAVE CURTIS

As Run on: _____ (Date/Time)

By _____ (Test Conductor)

DOCUMENT REVISION RECORD

Rev.	Date	Description of Change
A	2000-3-19	Original draft
B	2000-11-9	Update for new spacecraft configuration (remove vac valve GSE & constrain unmated actuator plugs, etc.); remove FSS stim. & antenna hats, add solar array safety tie-downs; leave FSS dust cover on; remove tooling balls; install pump port cap.
C	2000-11-15	Add QA signoff

Project Manager: _____ _____
Peter Harvey Date

System Engineer: _____ _____
David Curtis Date

QA: _____ _____
Ron Jackson Date

1. INTRODUCTION

1.1 Purpose

This document describes the physical configuration of the spacecraft for vibration tests. The spacecraft is to be mated to the vibration plate via the red ring as called out in the vibration test plan (HSI_MIT_020). The spacecraft is to be nominally in flight configuration with solar arrays installed.

2. ITEMS TO REMOVE

1. SAS Covers (3x) Verify_____
2. RAS Cover Verify_____
3. PMT Cover Verify_____
4. Flight Enable Plug (FEP) Verify_____
5. Battery Relay Box Verify_____
6. Battery Cell Monitor Box Verify_____
7. Spectrometer Vacuum Pump Verify_____
8. Spectrometer pump
9. Lifting Fixture Verify_____
10. TMS Shorting Plug Verify_____
11. TMS alignment laser in front of Imager Verify_____
12. CSS Dust Covers (8x) Verify_____
13. Vacuum Valve GSE Verify_____
14. Actuator Enable plug (disconnect) Verify_____
15. RF Antenna hats (4x) Verify_____
16. FSS Stimulus Verify_____
17. Imager grid tray tooling balls (18) Verify_____
18. RAS tooling balls (4) Verify_____
19. Reference tooling ball at center ring Verify_____
20. Solar Array First Motion Fixture (leave the tabs on the solar arrays)

Verify_____

QA Verify:

3. ITEMS TO INSTALL

1. Umbilical to GSE Verify_____
2. Test Access Connector (TAC) to GSE (for telemetry) Verify_____

3. Battery Flight Plug (BFP); as called out in HSI_MIT_033 Verify_____
4. Nominal Balance Mass Verify_____
5. Spectrometer LN2 cooling fill tube support Verify_____
6. Spectrometer pump port cap Verify_____
7. Loose restraints on the solar arrays to capture them in the event that the frangibolts fail Verify_____
8. FSS dust cover (red plastic) Verify_____
9. RAS dust cover (bag) Verify_____
10. Upper grid tray dust cover (bagging) if it is not closed out by thermal blankets Verify_____

QA Verify:

4. OTHER CLOSEOUTS

1. Cage Spectrometer Attenuator Actuators Verify_____
2. Close RAS aperture shutter Verify_____
3. Tape down loose hardware on lifting fixture guides Verify_____
4. Tape down unmated connectors: vacuum valve & actuator ebl. Verify_____
5. Inspect blankets and harasses near solar array to ensure clearance Verify_____

QA Verify: