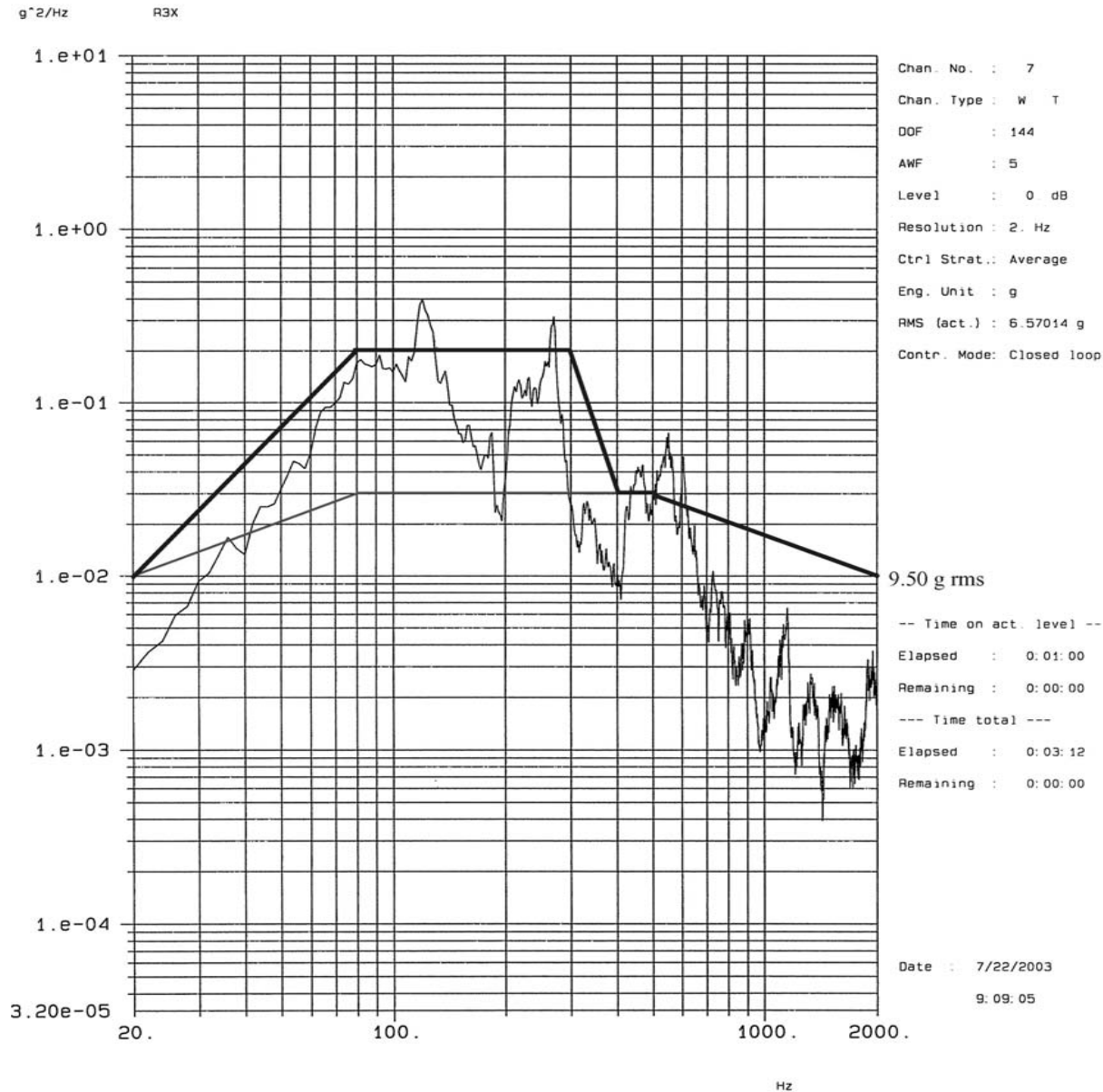


STEREO CONFIGURATION CHANGE REQUEST

| | | | | | | | | |
|--|---------------------------|--------------------------------------|--|--|--------------------------|-----|-------------------------------------|---------------|
| For Office Use Only | TITLE: | CLASS: | NUMBER: | | | | | |
| | | I II | DATE: | | | | | |
| CONFIGURED ITEM: | | ORIGINATOR: | | PRIORITY: | | | | |
| STS Number: | Payload: STEREO | Name: Dave Curtis | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Urgent <input type="checkbox"/> Emergency | | | | | |
| Component : | Experiment: IMPACT | Organization: U.C. Berkeley | | | | | | |
| Component Part #: | Serial #: | Phone: 510-642-5998 | | | | | | |
| | | Email: dwc@ssl.berkeley.edu | | | | | | |
| TYPE OF REQUEST: | | RESPONSIBLE ORGANIZATION/INDIVIDUAL: | | IMPACTS: (If yes attach additional pages) | | | | |
| <input type="checkbox"/> | Configuration | | | COST: | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| <input type="checkbox"/> | Deviation | | | # | | | | |
| <input checked="" type="checkbox"/> | Waiver | | | # | | | | |
| <input type="checkbox"/> | Other: | | | | | | | |
| REASONS FOR CHANGE: | | RETEST REQUIRED: | | | | | | |
| <input type="checkbox"/> | Improvement | <input type="checkbox"/> | Test/Payload Failure | <input type="checkbox"/> | No | | | |
| <input type="checkbox"/> | Reliability | <input checked="" type="checkbox"/> | Specification Requirements | <input type="checkbox"/> | Yes | | | |
| <input type="checkbox"/> | | <input type="checkbox"/> | New Document: | | | | | |
| <input type="checkbox"/> | | <input type="checkbox"/> | Other: | | | | | |
| PROPOSED CHANGE (Attach additional pages as required): | | | | | | | | |
| <p>The STEREO Environmental Requirements Document (7381-9003 rev B) section 3.4.2.1 states that instruments mounted to booms shall be vibrated with the boom, with exception to be negotiated. There is an enhanced 14.7grms random vibration spectrum supplied for boom mounted instruments vibrated separately. Further the test matrix in appendix B of that document indicates the boom instruments are vibrated with the boom. We propose to vibrate SWEA separate from the boom at levels derived from the boom test (using a mass dummy in place of SWEA for the boom vibration tests).</p> | | | | | | | | |
| RATIONALE (Attach additional pages as required): | | | | | | | | |
| <p>We have vibrated the qualification boom with the instruments replaced by mass dummies with accelerometers. From this data we have constructed a vibration spectrum for SWEA using the FEMCI Book (see attached). We will verify this data from the flight boom vibration tests prior to SWEA vibration. SWEA will not be available until after the rest of the boom is ready to start vibration. Waiting for SWEA to be ready will disrupt our schedule, impacting suite delivery. Also there are logistical and risk issues with handling and shipping the boom with SWEA attached which would have to be addressed,</p> | | | | | | | | |
| DOCUMENTS/DRAWINGS AFFECTED (Document No./Title/Section) | | | | | | | | |
| AFFECTED (Check all that apply): | | | | | | | | |
| FLIGHT SYSTEMS: | | | | GROUND SYSTEMS: | | | | |
| <input type="checkbox"/> | Avionics | <input type="checkbox"/> | Electrical and Cables | <input type="checkbox"/> | | | | |
| <input checked="" type="checkbox"/> | Experiment | <input type="checkbox"/> | Software/Firmware | <input type="checkbox"/> | | | | |
| <input type="checkbox"/> | Structures and Mechanical | <input type="checkbox"/> | Other: | <input type="checkbox"/> | Other: | | | |
| REQUIRED APPROVAL DATE: _____ | | | | | | | | |
| REQUIRED JUSTIFICATION: | | | | | | | | |
| | | | | | | | | (Page 1 of 2) |

STEREO CONFIGURATION CHANGE REQUEST

| | | | | | | |
|---|--------|------------------------------|-----------------|----------------|--------------------|-----------------|
| For Office Use Only | TITLE: | | CLASS: | | NUMBER: | |
| | | | I | | DATE: | |
| | | | II | | | |
| CONTRACT/AGREEMENT NUMBER EFFECTIVITY: | | | | | | |
| STEREO NAS5-97271 | | √ | IMPACT S-13635Y | | PLASTIC NAS5-00132 | SECCHI S-13631Y |
| DOCUMENTS/DRAWINGS TO BE REVISED: | | | | | | |
| Document/Drawing Number: | | Document/Drawing Title: | | Section(s) No. | EO No.: | Date Completed: |
| | | | | | | |
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| | | | | | | |
| PROCESSING APPROVAL: | | | | | | |
| CCB | | | | | | |
| Out of Board | | | | | | |
| Emergency | | Systems Engineer | | | Date | |
| CCB APPROVAL: | | | | | | |
| CCB ACTION DATE: | | CCB ACTION ITEMS/CONDITIONS: | | | | |
| Approved Denied Withdrawn Hold | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| CLOSEOUT COMMENTS: | | | | | DATE OF CLOSEOUT: | |
| | | | | | CMO | |



All instrument vibration envelopes will be verified by FM1 vibration prior to instrument vibration testing

**Example:
 X AXIS 0dB RANDOM
 R3X
 SWEA and STE-D X-axis
 Envelope: 9.50 g rms**

- **Created from The FEMCI Book – Creating a Random Vibration Component Test Specification**