



CRaTER Pre-Ship Review  
(I-PSR)

Instrument Configuration  
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January 3-4, 2008

*Cosmic RAY Telescope for the Effects of Radiation*



## Serial Number 1 -- Flight Spare

- First to start into manufacturing
  - *Problems with FPGA lead forming caused delay in completion*
- Removed 28VDC housekeeping sense lines to be identical to SN2
- Unit does not have Dosimeter
- Fully Qualified, except
  - EMC waivers; this unit did not see CE01, CE03 testing (ref. RFA-PER-1,3); turn-on transient
  - Contamination Inspection at GSFC
  - Shock and Acoustics deferred to Orbiter level
- Sub-assembly identification
  - Electronics Ass'y: sn 001
    - Analog PCB Ass'y: sn 005
    - Digital PCB Ass'y: sn 001F
  - Telescope Ass'y: sn 003
    - PCB Ass'y: sn 003
    - Detectors D1-D6: D006, E005, D007, E006, D008, E007
- Operating Hours to 12/21/07: 188:46 on; 119:35 vacuum; 149:54 trouble-free (1000/200/350)



## Serial Number 2 -- Flight Unit

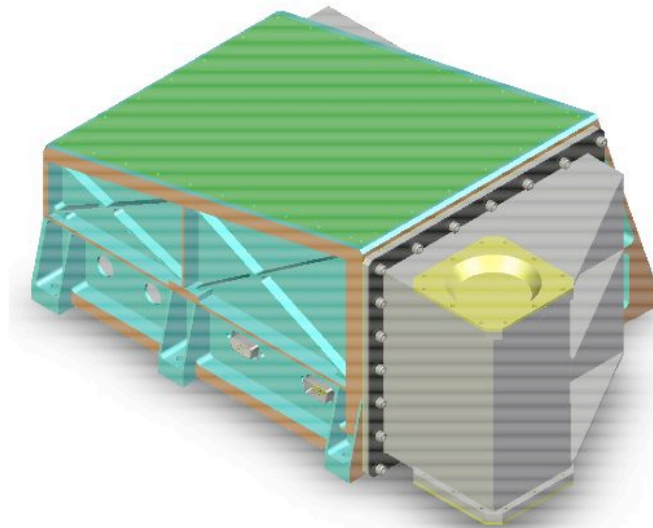
- Was qualified for Vibration & Thermal-Vac
- Failed EMI -- RE02
- Reworked (removal of housekeeping sense lines on 28VDC bus); EMC retest
- ReQualified by 1 axis Vibration and 1 cycle Thermal-Vac
- Fully Qualified, except
  - EMC waivers; turn-on transient
  - Contamination Inspection at GSFC
  - Shock and Acoustics deferred to Orbiter level
- Sub-assembly identification
  - Electronics Ass’y: sn 002
    - Analog PCB Ass’y: sn 004
    - Digital PCB Ass’y: sn 002F
  - Telescope Ass’y: sn 002
    - PCB Ass’y: sn 002
    - Detectors D1-D6: D003, E001, D004, E008, D005, E011
- Operating Hours to 12/21/07: 372:29 on; 223:15 vacuum; 113:39 trouble-free (1000/200/350)



THE AEROSPACE CORPORATION



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