



GLAST Mission Interface Change Notice (ICN)

ICN No.
016 Draft

SPECTRUMASTRO

SHEET 1 OF 1

ORIGINATOR: Tim Morse

PHONE: 480-892-8200

DATE: 8-25-03

CHANGE TITLE: LAT-SC System Grounding

ORG: Spectrum Astro

DOCUMENT NUMBER

TITLE

VERSION

1196-EI-Y46311-000

LAT-SC ICD

A

REASON FOR CHANGE:

Grounding was incorrectly defined, mixing power grounding methodology and electrical bonding resistance at the mechanical interfaces. This change separates the two into different requirements.

PROPOSED CHANGE:

The SC shall provide a structure or an electrically conductive ground plane, known as the chassis ground, as a ground reference for the GLAST Observatory. The GLAST SC provides a Single Point Ground (SPG) for PDU primary power referencing, to minimize primary power current in SC structure during normal SC operations. The Observatory chassis ground shall not be used to conduct intentional primary power load current.

The LAT shall provide a single point ground for the SC PRU that has less than 2.5 mOhms between power returns and chassis. Within the SC PRU, its regulated power 28 VDC return line shall be isolated from Observatory structure by at least 1 Megohm.

The electrical bonding between the SC upper ring and the LAT grid shall be less than 2.5 milliohms.

INSTRUMENT IMPACT

- Cost
- Schedule

SPACECRAFT IMPACT

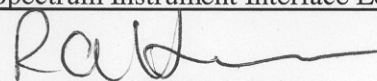
- Cost
- Schedule

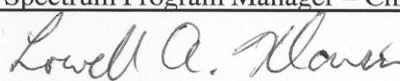
ORIGINATOR SIGNATURE:

APPROVAL SIGNATURES:

Spectrum Instrument Interface Lead – Tim Morse

Spectrum Program Manager – Chris Clark


Instrument Systems Engineer


Instrument Program Manager

Cramar, Natalie

From: Nordby, Martin E.
Sent: Wednesday, August 27, 2003 10:29 AM
To: Cramar, Natalie
Subject: RE: ICN 016 for Review

Natalie,

NO Comment/ABSTAIN from this one,

Martin

-----Original Message-----

From: Cramar, Natalie
Sent: Wednesday, August 27, 2003 9:56 AM
To: Nordby, Martin E.; Bielawski, Rich; Haller, Gunther; Hascall, Patrick A; Horn, Dick; Klaisner, Lowell
Subject: ICN 016 for Review

Hello All,

Attached you will find a draft version of ICN 016. Please look over and send me comments by Wednesday September 3rd.

ICN 016 - LAT-SC System Grounding

Thank you,

Natalie

Cramar, Natalie

From: Haller, Gunther
Sent: Tuesday, September 09, 2003 5:24 PM
To: Cramar, Natalie
Subject: RE: CCR 433-0182 R1 and 433-0183 for Review *JEN OLG*

Fine with me.

The folder you had left with me is on the table in my office. Fine with me, I did no sign since I am not supposed to I guess

Dr. Gunther Haller
Stanford University/SLAC
MS 96
P.O. 20450
Stanford, CA 94309
T: (650) 926-4257
F: (650) 926-2923

-----Original Message-----

From: Cramar, Natalie
Sent: Tuesday, September 09, 2003 9:05 AM
To: Tom Leisgang; Dave Lung; Davis, Warren; Haller, Gunther; Hascall, Patrick A; Horn, Dick; Klaisner, Lowell; Nordby, Martin E.; Rich Bielawski; Scott Sawyer
Cc: Viera, Diana
Subject: CCR 433-0182 R1 and 433-0183 for Review

Good Morning All,

CCR's 433-0182 R1 and 433-0183 are being sent out for your review. Please send all comments and approvals to me by this Friday, September 12th.

433-0182 R1 - GBM-SC IRD- Remove the Requirements for Discrete Monitors from the GBM IRD

433-0183- LAT-SC IRD - Increase Spacecraft Power Capability for the LAT

Please see the GLAST CM Web Site(http://sagan.gsfc.nasa.gov:2828/Glast_cm/?) to find the CCR Information and the Change Pages.

GLAST CM System Password: cmdb (No user ID required)

Thank you,

Natalie Cramar
LAT Documentation
Stanford Linear Accelerator Center
2575 Sand Hill Road MS 43
Menlo Park, CA 94025
650-926-3648 (Phone)
650-926-4979 (Fax)