

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
2101 NASA Road 1
Houston, Texas 77058-3696



August 19, 2004

EA-04-027

Reply to Attn of:

Professor Samuel C. C. Ting
Laboratory of Nuclear Sciences
Massachusetts Institute of Technology
51 Vassar Street
Cambridge, MA 02139

SAM,
Dear Professor Ting,

At the recent AMS general TIM in Geneva, you requested an evaluation if NASA or Lockheed Martin representatives should be present during the final assembly of the flight Electromagnetic Calorimeter (ECAL) and during the sine sweep verification test of the same flight unit. The NASA AMS Project Office has reviewed this request and has made the following determination.

We will be sending at least two Lockheed Martin representatives to witness the final assembly of the ECAL flight structure. We are specifically interested in witnessing the installation of the primary structural bolts that were provided by Lockheed Martin. We have already begun to coordinate this effort with Professor Franco Cervelli and Mr. Yi Wang.

We are confident that the Beijing Institute of Satellite Environment Engineering (BISEE) can perform the final sine sweep testing of the flight ECAL, because:

- Lockheed Martin witnessed all of the prototype ECAL testing, which included 6 sine sweep tests and 3 sine burst tests in that the same testing facility,
- BISEE will be performing the flight ECAL testing in that same facility,
- We are confident that they can perform the final sine sweep testing of the flight ECAL to the same professional level as they have exhibited in the past.

We ask that an independent party, perhaps an ECAL representative from INFN or LAPP, please provide a letter stating that they witnessed the actual testing and confirming that the test results that are received by NASA are from the flight ECAL test. Please also have BISEE provide the final test report to NASA and Lockheed Martin.

Cordially,

A handwritten signature in black ink, appearing to read "S. V. Porter".

18 Aug 04
Stephen V. Porter

cc:

AMS Collaboration/F. Cervelli
AMS Collaboration/Y. Wang
Lockheed Martin/C102/T. Martin
Lockheed Martin/C102/D. Cox
Lockheed Martin/C102/C. Tutt
Lockheed Martin/C102/M. Fohey