

National Aeronautics and
Space Administration

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



May 26, 2005

Reply to Attn of: EA-05-040

Professor Samuel C.C. Ting
Massachusetts Institute of Technology
51 Vassar Street
Cambridge, MA 02139-4307

Dear Prof. Ting:

The integration and testing of the AMS-02 experiment with the Unique Support Structure (USS-02), including the Vacuum Case, is a highly complex and difficult task. It will require detailed planning and coordination between all AMS Collaboration Detector Groups, the Magnet group, NASA and Jacobs Sverdrup personnel in order to meet the launch schedule. Last year, you appointed Giuliano Laurenti to coordinate the CERN Integration Schedule effort. Through Prof. Laurenti's work over the last year, we have come to fully appreciate the scope of this work and would like to propose a process through which we can be successful.

The process begins with this letter and your subsequent endorsement of this approach. Upon your endorsement, my office will take on a significant role in the process and will begin by requesting electronic copies of project schedules from each of the groups. At or near the next general AMS meeting in July 2005, my team will meet with each of the hardware and software group leads to outline the additional information needed to develop a detailed AMS-02 Integration Schedule (AIS) and AMS-02 Integration Procedure (AIP). We will discuss the following issues with each of the Detector groups:

- 1) Status of all flight and ground hardware,
- 2) Integration tasks and procedures with resource loading at CERN (may be clarification of existing data created by Prof. Laurenti),
- 3) Test plans and requirements with resource loading at CERN (may be clarification of existing data created by Prof. Laurenti),
- 4) Complete schedule for each system and detector through integration and testing on the USS,
- 5) Jointly decide what portions of the hardware and software group lead schedules are on the overall critical path of the AMS-02 Integration Schedule.

My team will utilize this data to develop a realistic detailed AMS-02 Integration Schedule. This work will ultimately be used to define AMS Assembly, Integration, and Test Procedures at CERN and KSC.

We also propose that the following Schedule and Integration Team be assembled to work all of the issues associated with this approach.

Chairpersons:

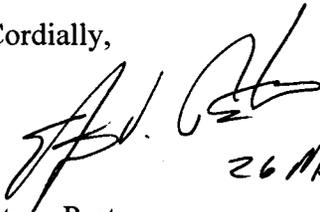
Giuliano Laurenti, Trent Martin, John Heilig

Team Members:

Roberto Battiston, Robert Becker, Mike Capell, Franck Cadoux, Franco Cervelli, Martina Green, Ross Harold, Stephen Harrison, Hans Hofer, Bill Hungerford, Marco Incagli, Klaus Luebelsmeyer, Marco Molina, Phil Mott, Federico Palmonari, Eric Perrin, Robin Stafford-Allen, Paolo Trampus, Christian Vettore, Jean-Pierre Vialle, others as needed

Thank you for your consideration and hopefully your endorsement of this approach. If you have any questions, concerns, or recommended changes, please feel free to contact me.

Cordially,



26 Apr 05

Steve Porter
AMS Project Manager

cc:

JSC/EA2/T. Martin
B2SC/P. Nemeth
B2SC/C. Tutt
B2SC/M. Fohey
B2SC/T. Urban
MIT/B. Hungerford
MIT/M. Capell
INFN/G. Laurenti
ETH/G. Vertel