

National Aeronautics and
Space Administration
George C. Marshall Space Flight Center
Marshall Space Flight Center, AL 35812



Reply to Attn of:

SD40 (125-01)

12/12/01

TO: DA01/A.G. Stephenson
THRU: AD33/Amanada Rasco *amr*
FROM: SD40/Tom Stinson
SUBJECT: Request for Deviation/Waiver

Deviation/Waiver Number: MWI 5113.1-WAV01

In accordance with MPG 1410.2, SD40 requests approval for waiver from requirements specified in MWI 5113.1, paragraph 6.6, Special Limitations Regarding the Use of Credit Cards, which states that credit cards may be used to purchase "commercial items", which are products and services available on the open market and "off-the-shelf".

Define the Proposed Departure from Requirements:

It is requested that the Biotechnology Carriers (BiC) project, specifically SD44, Experiments Project Management Group, be permitted to use the following Printed Wire Boards procured via Government credit card per MWI 5113.1 in order to support schedule requirements of the Observable Protein Crystal Growth Apparatus (OPCGA) project.

- Fabrication of two Printed Wiring Boards (quantity is 10 for each board) per:
 - 96M19249 External Fan Speed Control & TED Driver Drill & Trim
 - 96M19251 External Fan Speed Adjust Pot Drill Dwg.

Justification for the Deviation/Waiver:

MWI 5113.1, paragraph 6.6.2 states that credit cards shall not be used for flight hardware except in an "emergency", a situation that requires immediate action. For such emergencies, this paragraph goes on to list the procedures to be followed by the cardholder. We are in complete compliance with all these listed procedures.

The OPCGA project requires the BiC project to modify and supply an ISS-qualified long duration Thermal Enclosure System (TES) unit to support integration testing associated with the first flight of OPCGA on ISS 12A.1. The fan speed control is a new circuit to allow the TES to reduce acoustic noise for ISS. This requires two small boards and approximately 15 EEE parts. Our credit card quote for board fabrication was less, and in half the time of a Cortez solicited quote. The board fabrication was a standard services provided by an approved vendor, and on a commercial basis on the open market. To perform these services they required definition of the desired product (i.e., released drawings and quality requirements) from the customer. All applicable quality requirements were provided, and all MSFC quality inspections and project testing will be performed. Using in-house MSFC resources for the board fabrication will not support our current schedule.

Applicability, Impacts, and Conditions of Deviations/Waivers:

This waiver request applies to the subject components to be used for the Thermal Enclosure System, which will provide the thermal enclosure system for the OPCGA payload flights. Impact of approval may affect refundability of non-conforming items.

Mission Success Starts with Safety

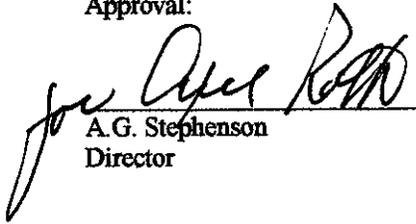
Alternate Plan to meet any ISO 9001 Requirements:
None. All other ISO requirements met.

Enclosure



Tom Stinson
Deputy Manager
Microgravity Science and Applications Department

Approval:



A.G. Stephenson
Director

12/14/01
Date

