

Minutes from August 26, 2003 MSFC PMC
Prepared by VS10/Rich Gladwin

DED01/Axel Roth chaired the meeting. Mr. Gladwin reviewed the agenda. The agenda included: (1) Review of Action Items, (2) MSFC Health Status Trends (3) Request for ATP with Express Pallet Proposal Development (4) Implementation requests for Quench Module Insert (QMI) project, Biotechnology Carriers (BiC) project, Delta-L project and Observable Protein Crystal Growth Apparatus (OPCGA). (4) Request a change in approved project baseline from the SOLAR-B Project.

Mr. Gladwin reviewed the open action items. The request for extending the due date for action 1 from the 4-22-03 MSFC PMC was approved. This action is now due October 1, 2003. None of the open actions were closed.

Mr. Gladwin reviewed the health status of MSFC programs and projects. Mr. Gladwin noted that over half of MSFC projects are reporting either Red or Yellow in one of the 4 evaluation categories. A list of projects reporting red and yellow were provided to the MSFC members. A question was raised as to why none of the Shuttle projects were reporting red, given the schedule, cost and technical issues associated with the return to flight effort. Mr. Gladwin took an informal action to provide the PMC with an explanation at the next PMC meeting.

FD/Lanny Upton presented a Request for ATP with Express Pallet Proposal Development. The objective of the proposal is to design, develop, build and certify a facility to provide external mounting of science payloads in an exposed space environment for the ISS. Mr. Upton will present preliminary concepts to the ISS program on September 9-11. The MSFC PMC approved the proposal development effort. Mr. Roth cautioned that the Center was not committing its resources to implementing the project at this time. Express Pallet will be required to present a Formulation request to the MSFC PMC to proceed beyond proposal development.

SD/Monica Hammond presented the Implementation request for QMI. QMI is a module insert for ESA's Material Science Lab on ISS. ESA/MSL/QMI is integrated into the MSRR-1. QMI is designed to accommodate investigation-unique processing requirements. Mr. Roth questioned why some project tasks were being transferred from in-house to Teledyne Brown Engineering (TBE). Ms. Hammond responded that the change was made to keep the schedule. Questions were raised as to the significance of the thermocouple anomalies that occurred during testing. Ms. Hammond indicated that thermocouple failures could result in loss of the science mission. Ms. Hammond stated that fault trees were being developed and that recommendations were expected by October 2003. Mr. Roth asked if there was redundancy in the thermal system. Ms. Hammond responded that there was some redundancy. Mr. Bilbro asked if ED was involved in the thermocouple anomaly resolution. Ms. Hammond responded that ED was involved. Mr. Bilbro asked for clarification why the QMI project was presenting to the PMC. Ms. Hammond responded that the project had previously been given ATP through CDR. The QMI project was now requesting commitment of resources to complete the implementation process. The QMI project plan was provided to the PMC chairman for signature. The MSFC PMC

provided the commitment of resources for QMI project to complete the implementation process.

SD/Clark Darty presented the BiC project's request to complete the Implementation process. BiC is currently in the operation phase of its life cycle. However, since BiC was under the pre-2002 PMC defined threshold, the project was not previously required to request commitment of resources from the PMC. BiC manages and conducts activities to support MSAD Biotechnology investigations. BiC provides containment and activation for scientific investigations. Mr. Jack Bullman asked how ED was supporting the project. Mr. Darty responded that ED was providing support in material compatibility, review of technical data packages and for anomaly resolution if required. Mr. Darty stated that the project has not experienced any in-flight anomalies. The BiC project plan was provided to the PMC chairman for signature. The MSFC PMC provided the commitment of resources for BiC project to complete the implementation process.

SD/Kimberly Robinson presented the Delta-L project's request to complete the Implementation process. Delta-L is currently performing verification testing of its hardware. However, since Delta-L was under the pre-2002 PMC defined threshold, the project was not previously required to request commitment of resources from the PMC. Delta-L is a biotechnology science protein crystal growth investigation. Its purpose is to improve the success rate of protein crystallization experiments flown in microgravity. Delta-L was developed and built in-house. A question was asked as to how full cost accounting was going to affect Delta-L. Ms. Robinson responded she was not sure of all of the effects. Currently, budget dollars do not include civil service FTE's. Axel Roth asked if Delta-L had considered problems associated with shelving the Delta-L hardware. Ms. Robinson replied that Delta-L project had begun a draft shelving plan. She indicated that the project was concerned with losing experience base, protecting hardware, limited life items, etc. Linder Metts asked if there were any Centerwide procedures that could assist projects in similar situations. No known procedures were identified. An informal action was assigned to Science Directorate to investigate writing a standard procedure or guideline for shelving hardware. The Delta-L project plan was provided to the PMC chairman for signature. The MSFC PMC provided the commitment of resources for Delta-L project to complete the implementation process.

SD/Ron King presented the OPCGA project's request to complete the Implementation process. OPCGA is a biotechnology science biological crystal growth investigation. Its purpose is to conduct Liquid-Liquid Diffusion (LLD) biological crystallization in space. The OPCGA project plan was provided to the PMC chairman for signature. The MSFC PMC provided the commitment of resources for OPCGA project to complete the implementation process.

SD/Larry Hill presented the SOLAR-B request for buy-in to the rebaseline of the Solar-B project. Budget, schedule and workforce are affected by the proposed rebaseline. Solar-B's primary objective is the observation and understanding of the basic physical processes involved in the generation of the solar magnetic field, its transport and dissipation in the solar atmosphere, and in the methods by which the magnetic field modulates the Sun's luminosity. Solar-B has reported a red health status for schedule because its EIS component delivery did not meet the UK agreed to delivery date. The

issue is expected to be resolved very soon. However, software problems could still arise. Tony Lavoie asked about Flight Set 101 (FS101) damage. Mr. Hill responded that it had sustained ESD damage. Parts were replaced on FS101. FS102 will become the flight set. FS101 will be the spare unit. Tony Lavoie asked if there was float in the FS101/102 swap. Mr. Hill replied that there was no float for this work. Axel Roth asked how much schedule reserve was in the project if a September 2006 launch was assumed. Mr. Hill responded that there was no reserve for the EIS delivery for 10-17-03. The XRT has 4 weeks of slack to the delivery date. The FPP has 15 days of slack over the next 12 months. Mr. Roth expressed concern that the FPP schedule was in jeopardy, considering Lockheed Martin's past performance. The PMC advised the project to keep reporting red until the program approves its rebaseline or until the EIS hardware is delivered. An action was assigned for the Solar-B project to update its project plan. The MSFC PMC concurred with the project's proposed baseline as presented.

ACTION 3:

Assigned to: SD21/Larry Hill

Action: Update the Solar-B project plan based on the proposed project rebaseline. Submit the plan to affected organizations for concurrence and to the Center Director for approval.

Due Date: 11/19/03

The meeting was then concluded.

Attendance for MSFC PMC – August 26, 2003

Name	Organization
<u>COUNCIL MEMBERS</u>	
Axel Roth	DE01
James Bilbro	DA01
Gerald Flanagan (for Dale Thomas)	VS01
Bill Simpson (for Frank Mayhall)	RS01
Jack Bullman (for Bill Kilpatrick)	ED01
Alberto Duarte (for Denny Kross)	TD01
Tony Lavoie	FD01
Ann Whitaker	SD01
Linder Metts (for Jan Davis)	QS01
Emil Posey (for Steve Beale)	PS01
Susan Cloud (for Tereasa Washington)	CD01
Sheila Fogle (for Jim Ellis)	AD30
Jim Frees for (Bill Hicks)	LS01
Sheila Fogle (for Jim Ellis)	AD30

OTHERS IN ATTENDANCE

Rich Gladwin (PMC Secretary)	VS10
Lisa Roberts	VS01
Dinah Williams	VS10
Ron King	SD44
Lanny Upton	FD01
Ron Schlagheck	SD41
David Schaefer	SD40
Clark Darty	SD44
Roslin Hicks	ED02
Corky Clinton	SD40
Teresa Miller	SD46
Marvin Nowlin	QS30
Julie Bassler	SD44
Monica Hammond	SD44
Kimberly Robinson	SD44
Joe Howell	FD02
Mike Vanhooser	SD21
Larry Russell	SD20