1. SCOPE

The purpose of this document is to identify the top level aims of the EOB-2 part 2 integration that is proposed to take place at MSSL early in January 1995, together with the equipment required for the process. In addition, a number of products that demonstrate that the aims have been met will be required and these are identified in par 4.

2. AIMS

2.1. To demonstrate that an image can be captured using ICU, DPU and blue detector (including tracking).

2.2. To demonstrate that an image can be captured using ICU, DPU and red detector (including cosmic ray subtraction).

2.3. To demonstrate simultaneous operation of the two detector systems.

2.4. To demonstrate a sample sequence of simultaneous observations in red and blue detectors.

3. SUB-SYSTEMS REQUIRED:-

- EOB-1 blue detector system (MSSL) plus OGSE. The detector will be driven via the ICU.
- Development model red detector system (Galileo) plus OGSE. The detector will be driven via the ICU.
- DEM including EOB-2(1) DPU (Sandia and Penn State) and m3ds ICU with XMM-OM S/C interface card (MSSL) using EGSE S/C interface simulator software.
- EGSE (OM checkout computer - MSSL and SDT - Penn State).

4. DEMONSTRATIONS AND PRODUCTS

The achievement of each aim will be considered a milestone in the AIV process and should be demonstrated to the AIV manager. In addition, a set of permanent products will be required for each milestone, so that its success or otherwise can be evaluated off-line. The products will consist of:-

4.1. command files on the EGSE used to control the operation of the instrument;
4.2. the accumulated images;
4.3. a record of the housekeeping data;
4.4. a record of the acquisition and tracking log from the DPU.

If it is not possible to achieve a particular aim, then this should be discussed with the AIV manager to develop an alternative strategy.

CHANGE RECORD

ISSUE	DATE	PAGES CHANGED	COMMENTS
01	17 October 1994	All New	

XMM Optical Monitor

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AIMS FOR EOB-2(2) INTEGRATION

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