

**Herschel/SPIRE**

**MULLARD SPACE SCIENCE LABORATORY  
UNIVERSITY COLLEGE LONDON**

**Author: A Dibbens**

**END ITEM DATA PACKAGE FOR THE PFM**

**Document Number: MSSL/SPIRE/PA/012.01 12 July 2004**

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*12 Jul 04*

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*12 July 04*

Approved:

Date:

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## INTRODUCTION

This document lists the documents that are being delivered with the Proto-Flight Model of the SPIRE structure.

The format of the document follows that suggested by RAL.

### 1. SHIPPING DOCUMENTS

Deliverable Item List for the PFM MSSL/SPIRE/PA013.01

### 2. TRANSPORTATION, PACKING, HANDLING & INTEGRATION PROCEDURES

Structure Assembly, Integration and Handling MSSL/SPIRE/SP011.04

### 3. CERTIFICATE OF CONFORMANCE / DELIVERY REVIEW BOARD NOTES & A/Is

Certificate of Conformance MSSL/SPIRE/PA014.01

### 4. QUALIFICATION STATUS LIST / TEST MATRIX

### 5. TOP LEVEL DRAWINGS (INC FAMILY TREE)

Structure Hardware Tree MSSL/SPIRE/SP013.01

### 6. INTERFACE DRAWINGS

Interface Drawing Issue 19 Modification Sheet MSSL/SPIRE/SP005.04

Interface Drawings:

A1/5264/907	Beam Steering Mechanism Interface
A1/5264/910	Beam Steering Mechanism Interface
A1/5264/911	BDA Adapter Plate
A1/5264/916	Mirror Fixing Envelope
A1/5264/917	RFI Filter Interface Drawing
A2/5264/918	Photometer Cold Stop/PFIL-3 Interface
A2/5264/919	SFIL-3 Interface
A1/5264/920	SFIL-2 Interface
A1/5264/921	CFIL-1 Interface
A1/5264/922	PFIL-2 Interface
A1/5264/923	BSM & Thermometry Harness Hole Interface
A3/5264/925	Photometer Light Trap Junction with PTC
A3/5264/926	Light Trap End Stops – Photometer
A1/5264/927	Flexible Strap Forming Jig

### 7. FUNCTIONAL, BLOCK & MECHANICAL DRAWINGS

Assembly and other relevant mechanical drawings:

A1/5264/300	Instrument Interface
A1/5264/301	General Assembly Drawing
A1/5264/302	Photometer Cover
A1/5264/303	Spectrometer Cover

A1/5264/305	Optical Bench
A1/5264/306	Photometer 2K Box
A3/5264/306B	Photometer Thermal Bus Bar
A1/5264/307	Spectrometer 2K Box
A3/5264/307B	Spectrometer Thermal Bus Bar
A1/5264/309	Level 0 Feed-throughs/Baffles
A1/5264/309A	Level 0 thermal Straps
A1/5264/310	Photometer 2K Box - PDIC 1
A1/5264/311	Photometer 2K Box - PDIC 2
A1/5264/314	SCAL Box Assembly
A1/5264/320	SFIL2 Assembly
A1/5264/321	SBS 1 and 2 Assembly/Interface
A3/5264/911	BDA Adapter Plate

## **8. ELECTRICAL CIRCUIT DRAWINGS**

Not applicable

## **9. AS BUILT CONFIGURATION STATUS**

Configuration Item Data List for the PFM

MSSL/SPIRE/CF002.01

## **10. SERIALISED COMPONENTS LIST**

Not applicable

## **11. LIST OF WAIVERS**

None

## **12. COPIES OF WAIVERS**

None

## **13. OPERATION MANUAL**

Not applicable

## **14. HISTORICAL RECORD**

Not applicable

## **15. LOGBOOK / DIARY OF EVENTS**

NOTE: This is to be supplied by RAL as part of the complete instrument build.

## **16. OPERATING TIME / CYCLE RECORD**

Not applicable

## **17. CONNECTOR MATING RECORD**

Not applicable

## **18. AGE SENSITIVE ITEMS RECORD**

Not applicable

## **19. PRESSURE VESSEL HISTORY / TEST RECORD**

Not applicable

## **20. CALIBRATION DATA RECORD**

Not applicable

**21. TEMPORARY INSTALLATION RECORD**

None

**22. OPEN WORK / DEFERRED WORK / OPEN TESTS**

- NCR numbers (see details in par 23):
  - HR-SP-RAL-NCR-076 Major
  - HR-SP-RAL-NCR-036 Minor
  - HR-SP-RAL-NCR-066 Minor
  - HR-SP-RAL-NCR-067 Minor
  - HR-SP-RAL-NCR-077 Minor
  - HR-SP-RAL-NCR-079 Minor
- The re-design and manufacture of the Level 0 thermal straps.
- The Manufacture and acceptance test of the CFRP FPU mounts and Detector Box mounts.

**23. LIST OF NON-CONFORMANCE REPORTS**

There are no NCRs for the PFM in the MSSL change control system

**24. COPIES OF NON-CONFORMANCE REPORTS**

All the NCRs are in the RAL system – see attached list.

**25. TEST REPORTS**

PFM Bakeout Report	MSSL/SPIRE/TR/006.01
PFM Cleanliness Report	MSSL/SPIRE/TR/007.01

**26. PROOF LOAD CERTIFICATES**

Not applicable

**27. REFERENCE LIST OF EIDPs (LOWER LEVEL / ASSOCIATED)**

Not applicable

**28. MASS RECORDS / POWER BUDGET**

PFM Mass Budget and Report	MSSL/SPIRE/TR008.01
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**29. CLEANLINESS STATEMENT**

Delivered items have been baked out. See test reports in par 25.

**30. OTHER USEFUL INFORMATION**

MSSL Documents List	MSSL/SPIRE/PA003.02
Declared Materials List	MSSL/SPIRE/PA002.06
Declared Processes List	MSSL/SPIRE/PA004.05