

DCR / ECR Number:

HR-SP-RAL-ECR-006

Spacecraft / Project	Herschel-Planck	Originator's Name	JD
System / Experiment / Model	SPIRE	Signature	John Delderfield. <i>26/11/01</i>
Sub-System	Instrument level I/F	Date	19th November 2001
Assembly		Classification	Urgent
Sub-Assembly		Ref. Doc. / Drwg No.	Spire IID-B 2/0
Item		Reference	SCI-PT-IIDB/SPIRE-02124

ECR Title

SPIRE IID-B UPDATE, #2 based on Jean Bruston's list. Largely a re-submission of information collated on 26th September under pointsJD1-31, from even earlier information

ECR Description

Update Spire unit masses and dimensions, with unchanged Total Mass Allocations

Need /Justification For Change

Latest values/Budgets

Affected Items / Work package (Title, Number, Issue, Para)

Section 5.5

Substitute new section contents.

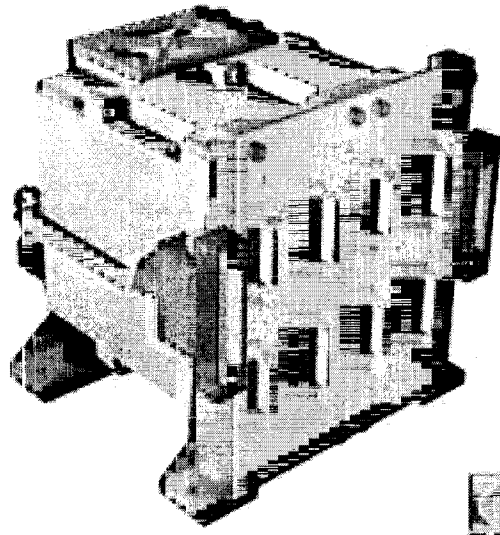
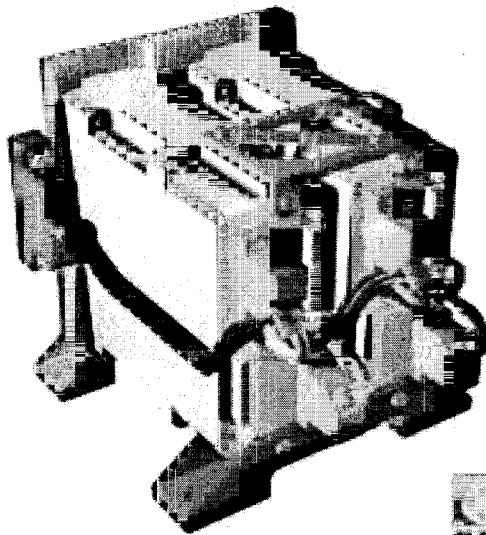
"Mass Budget is a mission critical item and no possibility is foreseen to negotiate any higher values for the allocated totals shown in bold in the following table:

Project Code	Instrument Unit	Dimensions in mm ³	Nominal Mass	Allocated Mass
HSFPU	HS Focal Plane Unit	Non-rectangular, see section 5.4	45.5Kg	51.3Kg
HSJFP	HS JFET Rack-Photometer	262.5 x 101 x 114 TBC	3Kg	3.3Kg
HSJFS	HS JFET Rack-Spectrometer	101.5 x 91 x 104 TBC	1.2Kg	1.4Kg
Total Mass for units on HOB			49.7Kg	56Kg
HSDPU	HS Digital Processing Unit	274 x 258 x 200 TBC	23Kg	34Kg
HSFCU	HS FPU Control Unit	330 x 330 x 380 TBC		
HSDCU	HS Detector Control Unit	460 x 290 x 300 TBC		
HSW1-8	HS Warm Inter-unit Harness	To suit.	2Kg	
Total Mass for units on SVM			32Kg	34Kg
Spire TOTAL MASS				90Kg

Dimensions are given as Length x Width x Height, the first two applying parallel to the mounting surface.

Section 5.4.2

Replace TBW with:



For dimensioned drawing see Annex1.



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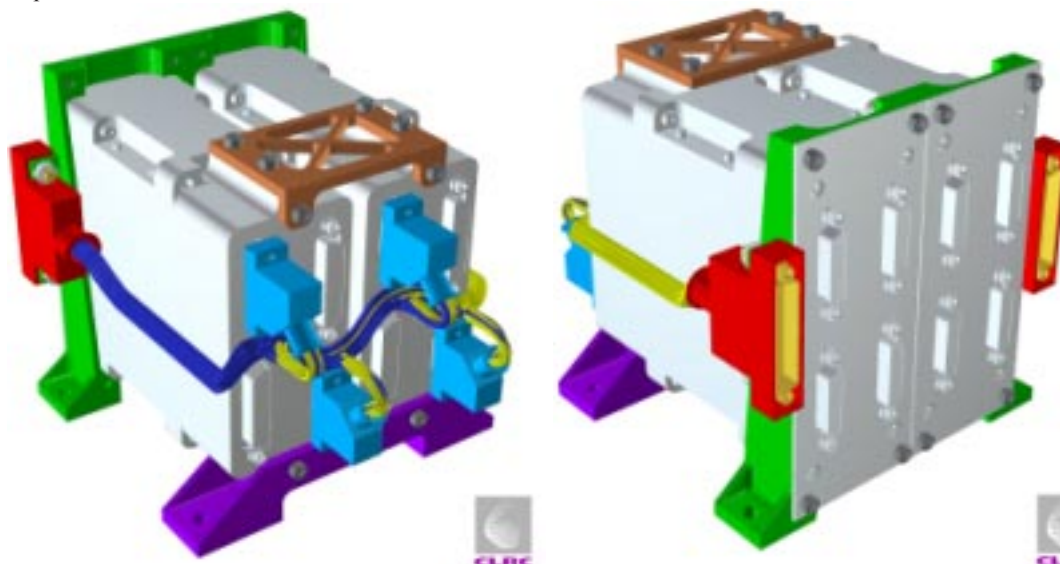
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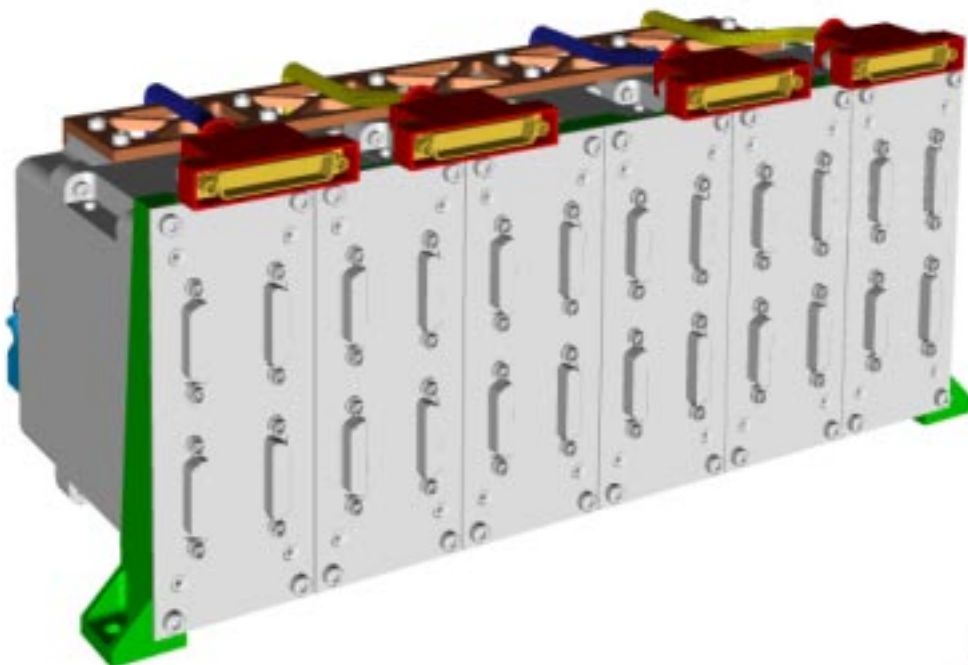
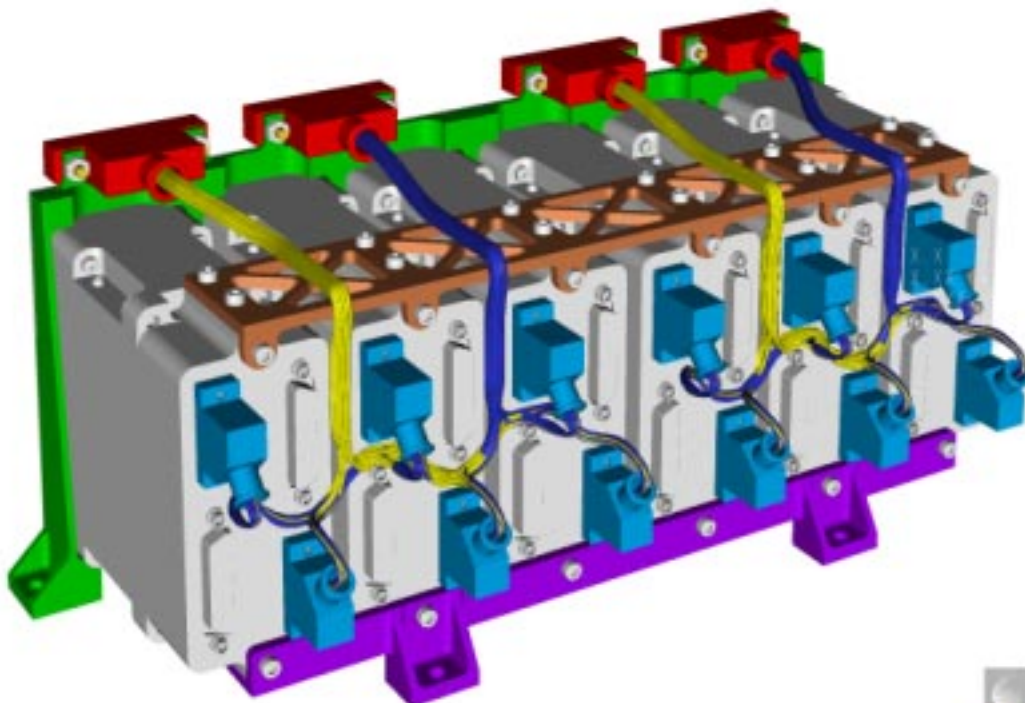


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Section 5.4.3

Replace TBW with:



For dimensioned drawing see Annex1.



PRODUCT ASSURANCE
Space Science and Technology Department

HR-SP-RAL-ECR-006

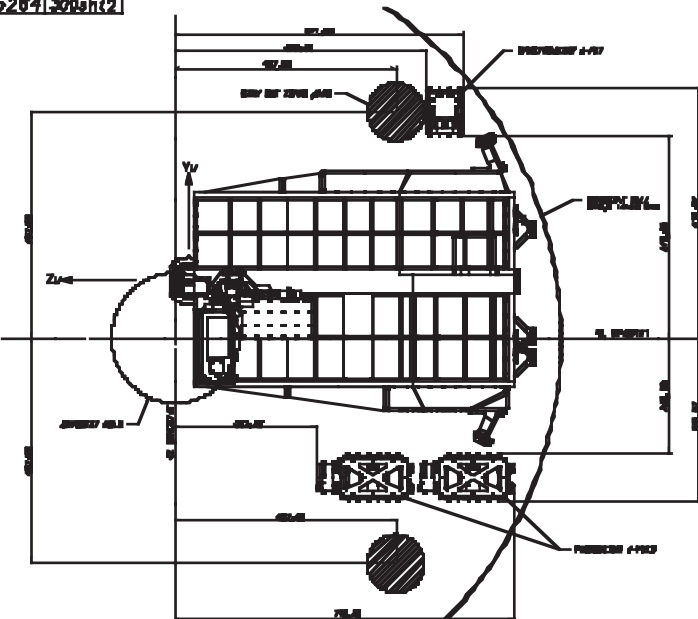
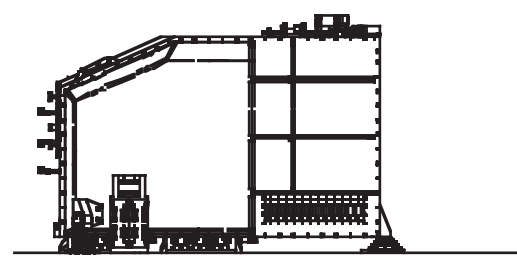
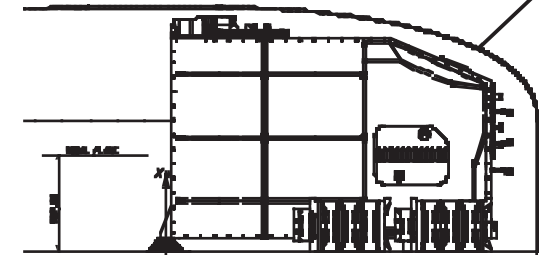
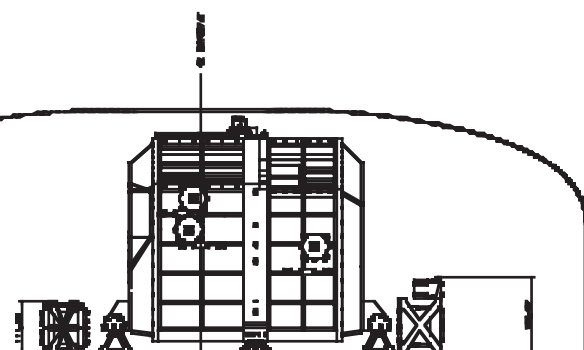
Replace drawings with





DCR / ECR Number:

HR-SP-RAL-ECR-006

DRAWING No. AT 5284 300shc2		THIRD ANGLE PROJECTION		DO NOT SCALE																	
		<p>NOTE:- 1. ALL DIMENSIONS AT ROOM TEMPERATURE</p>  <p>ISOMETRIC VIEW (J-FET POSITIONS)</p>																			
 <p>ISOMETRIC VIEW (J-FET POSITIONS)</p>		 <p>ISOMETRIC VIEW (J-FET POSITIONS)</p>																			
<table border="1"><tr><td>NO.</td><td>REV.</td><td>DESCRIPTION</td><td>DATE</td></tr><tr><td>1</td><td>1</td><td>ISSUED FOR CONSTRUCTION</td><td>19/04/03</td></tr></table>		NO.	REV.	DESCRIPTION	DATE	1	1	ISSUED FOR CONSTRUCTION	19/04/03	<table border="1"><tr><td>DESIGNED BY</td><td>DRG. IN CHARGE</td><td>TO CHECKED BY</td><td>DATE</td></tr><tr><td>AT 5284 300shc2</td><td>AT 5284 300shc2</td><td>AT 5284 300shc2</td><td>19/04/03</td></tr></table>				DESIGNED BY	DRG. IN CHARGE	TO CHECKED BY	DATE	AT 5284 300shc2	AT 5284 300shc2	AT 5284 300shc2	19/04/03
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DEPARTMENT OF SPACE AND CLIMATE PHYSICS
UNIVERSITY COLLEGE LONDON
BULLING SPACE SCIENCE LABORATORY, HILBURY ST. MARY,
BENTLEY, LONDON.

**SPIRE INTERFACE
(J-FET POSITIONS)**

AT 5284 300shc2
SHEET 2 OF 7

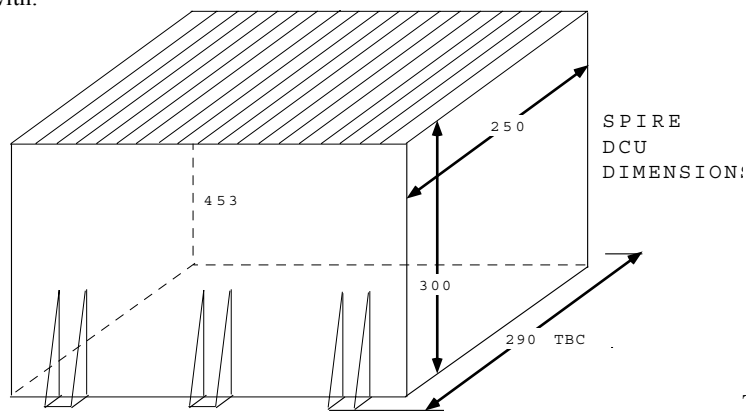


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Section 5.4.4.2

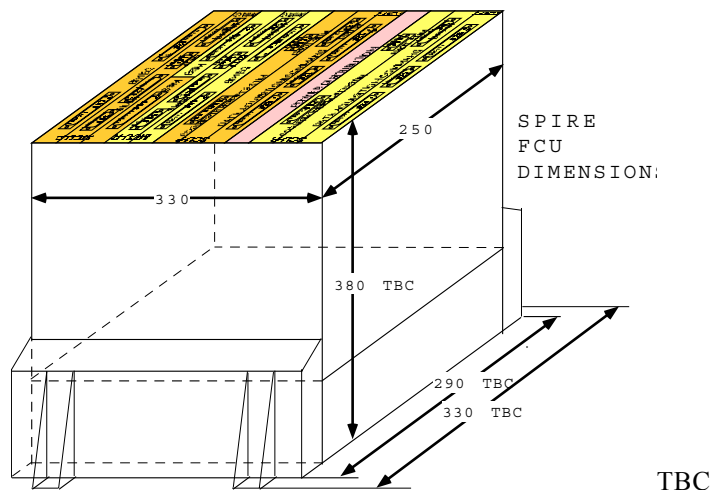
Replace TBW with:



All connectors towards cryo-harness on top surface.

Section 5.4.4.3

Replace TBW with:



All connectors towards cryo-harness on top surface.

INDUSTRY ASSESSMENT / IMPACT OF CHANGE

System design

Schedule

Cost

Industry Assessor Signature

Related Factors

Spacecraft	Performance	Power	Others (Specify)
Ground Segment	Elect. Interfaces	Weight	I/F.
Launch Vehicle	Mech. Interfaces	Schedule	
Payload	Test/Verification	Cost	
Attachments		Distribution	
None		See covering Sheet	

Change
Approved

Signature / Date