Spacecraft/Project HERSCHEL / SPIRE	Document Numb	er SPIRE-RAL-REP-003017	Issue 1		
Sub System DPU	Date	05-Dec-07	Model EM		
INCOMING INSPECTION REPORT					
FROM		ТО			
IFSI Renato Orfei, IFSI-INAF, Area Ricerca C Vergata, Via Fosso del Cavaliere, 100, ( Roma, Italy		Project Rutherford Appleton Laboratory Space Science and Technology Department Chilton DIDCOT OXON OX11 0QX			
Applicable sections		Drawings / Docume	ents Attached		
Containers	Yes				
External Visual Inspection	Yes				
External Connector	Yes				
Documentation	No				
Verification of Interfacess	No				
Extra Comments Sheets	Yes				
INSPECTION CONDUCTED BY	_	WITNESS	ву		
NAME DA	TE	NAME	DATE		
Dion Dawson (PA) 05/12	/2007		05/12/2007		

		<u>_</u>			
Spacecraft/Project	HERSCHEL / SPIRE	Document Number	SPIRE-RAL-REP- 0	Issue	1
Sub System	DPU	Date	05-Dec-07	Model	EM
		CONTAINER INSF	PECTION		
TRANSPORT C	ONTAINERS EXTERNAL CONDI	TION	REMARKS		Status
Mechanical damage to handling provisions	o container fasteners, locks, clip	s or			None
Security / Locking Fit	ted				None
Markings for destinati	on and description				Checked
Warning labels relatin	g to handling lifting and stacking	g limits			Checked
Any additional Comm	ents				
TRANSPORT C	CONTAINERS INTERNAL CONDIT	TION	REMARKS		Status
Check Mounting fixtur	res fitted internal packaging				N/A
Internal padding / pac	kaging required	Packe	ed with grey foam inside tough plasti	c case.	Checked
Mounting provisions s	secure				N/A
Any additional Comm	ents	The grey foar	n tended to shed particles. No shock	sensors fitted.	See Remarks
ENVIROMENTAL MONITORS					
Temp Moni	tors Humiditiy		Shock Sensors Tri 5g 10g		50g
Fitted:	No Fitted:	No	X Axis Y Axis		
Condition:	Condition:		Z Axis		

Spacecraft/Project	HERSCHEL / SPIRE	Document Number SPIRE-RAL-R	EP- 0 Issue 1
Sub System	DPU	Date 05-Dec	c-07 Model EM
		INSTRUMENT VISUAL INSPECTION	
CHECK LIST		REMARKS	RESULTS
Contents against shipping	list		N/A
Instrument label			Acceptable
Note status of external contamination		Dusty	See Remarks
Degradation of paintwork o	or		None
Fasteners correctly locked	?		N/A
Check protective covers and correctly labelled and fitted			None
Additional Comments			

Spacecraft/Project	HERSCHEL / S	PIRE Document Number SPIRE-RAL-REP-0	Issue 1
Sub System	DPU	Date 05-Dec-07	Model EM
		INSPECTION OF ALL CONNECTORS	
CHECK	LIST	REMARKS (LIST CONNECTOR NUMBERS)	RESULTS
Pin Alignment		Flight quality parts not fitted	See remark
Damaged Sockets			None
Internal Debris		Dust seen inside connectors	See remark
Connector Covers fitte	ed	Connectors were unprotected	See remark
Connector Savers Fitt	ed		None
EMC Covers Fitted			None

RED Tag Item / Green Tag Items fitted

**Additional Comments** 

N/A

None

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Sub Sustan	DDU		05 Dec 07	Madal   EM
Sub System	DPU	Date	05-Dec-07	Model EM
		DOO! MENTATION	LOUEOVIJOT	
		DOCUMENTATION	I CHECK LIST	
Chec	ck	RE	MARKS	RESULTS
End Item Data Pack				V/A for this inspection
Transportaion Documents		V/A for this inspection		
Packing un- Packing ir	nstructions			VA for this inspectio
Additional Comments				
		Verification of	Interfaces	
Mechanical interface: dimensions specified in the interface control documents such as mass, flatness of surfaces, location of fixing holes and overall dimensions should be measured accurately and recorded. Record Test Report Number, or confirm that measurement result is included in delivery				
documentation, (EIDP).				
INSPECTION / TEST REPORT NUMBER N/A for this inspection				
Electrical interfaces: verifying the location and types of connectors against interface control document is normally carried as part of mechanical verification, confirm this has been done. Functional testing: final functional test report number should be noted.				
confirm this has been do	one. Functional testing: final fui	nctional test report number should	be noted.	
INSPECTION / TEST R	EDODT NUMBER		CHECKED NIA 4au	this increation
INSPECTION / TEST R	ELOK! NOMREK		CHECKED N/A for	this inspection

Spacecraft/Project	HERSCHEL / SPIRE	Document Num	ber SPIRE-RAL-REP-0	Issue 1
	7	<b>-</b>		[
Sub System	DPU	Date	05-Dec-07	Model EM
		EVED A COM	MENT SHEET	
		EXTRA COM	MENT SHEET	
The DPU CFM 2 was	supplied packaged inside the transpo	ortation box with gray foam	that left particles on the outer wrapping of	on the unit.
	ndicators, temperature or humidity de			
The DDI Lwee supplie	d with a single lover of ESD wron, wh	ich contained two torce on	d one end was left open. The unenclosed	Latata had laad ta
			ectors, so particles were also present inside	
particulate containing		oovere on any or the conne	notoro, do particido were alco precent men	20 1110 0011110010101
ESD protective covers	s were placed on the connectors in the	e RAL clean room prep-are	ea with ESD precautions in place.	
The DDI Luill need yo	arran alagaina and black light increas	tion before was in DAL alor		
The DPO will need va	cuum cleaning and black light inspect	tion before use in RAL clea	in rooms.	

SPIRE DPU Incoming Inspection 5 Dec 07 Top of transportation container as delivered



Transportation container as delivered – no shock indicators.



Packaging of DPU inside container



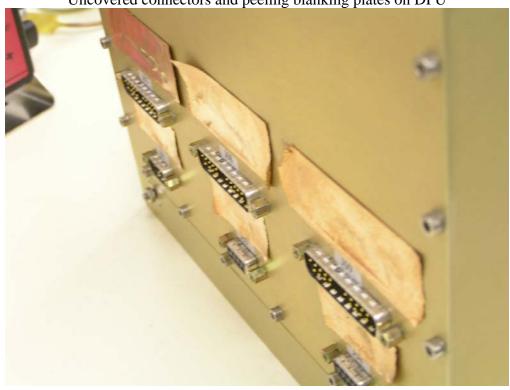
Tare in the wrapping at the base



Label on the DPU



Uncovered connectors and peeling blanking plates on DPU





Connector J09 – Note: all connectors showed dust contamination



Connector J04





## Connector J08



Connector J07



Corner of lid showing distortion

