•					REF.: H-P	-ASP-MN-3	3485	
A L C A T	EL	HERS	CHEL/PLA	NCK				
SPACE					DATE : 2	8/07/03		PAGE : 1/
COMPTE REN	DU DE REU	NION / M	INUTES OF M	EETING	LIEU / PLAC	E : teleconi	f	
OBJET / PURPOS	E :				CLASSIFICA	ATION :		
Review of WI in order to re	H comme elease ro	ents (Ins outing fin	truments + al definitio	ASED) n				
PARTICIPANTS ATTENDEES	SC F	DCIETE FIRM	SIGNATURE SIGNATURE	PART ATT	CIPANTS ENDEES	SOCIE FIRM	ETE 1	SIGNATURE SIGNATURE
Pletinckx K.	N	١ХН						
Dassy S.	Ν	1XH						
Bottaro G.	Å	ALS						
Marchand B	. A	ASP						
REDACTEUR / WRITTEN	NBY: Marcl	hand B.						
CONCLUSION : HERSCHEL : Finalisation Comments interference PLANCK : finalisation REU-PAU ho LFI BEU still	of harness r from Intrume with CryoH of harness r arness study unknown	routing can s ents to take . to be solve outing can s to be carrie	start where no in into account ed before ending tart d out by NXH (b	nterference g final routi pasing on A	is detected. ing in concern ASP concept)	ed areas.		
NXH feedback o	on schedule i	is expected	(delivery of final	routing)				
<u>DISTRIBUTION</u> : PARTICIPANTS /	POUR ACTIO	ON : ER ACTION	ALS (Bottard (Pletinckx K HIFI / SPIRE	o G.) / A: .) / ASP (/	SED (Lang J Marchand E	.+ Fehriı 3.)	nger /	A.) / NXH
ATTENDEES	POUR INFO FOR INFOR	RMATION : MATION	PACS / HFI ASP : B.C/J	/ LFI / S0 PC/GD/0	CS GL/OF/PhC	/PR/JJJ		
	·		APPROUVE PAR	/ APPROVE	D BY			
NOM / NAME								
SIGNATURE / SIGNATURE								

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	HERSCHEL/PLANCK		
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COMPTE RENDU DE REU	NION / MINUTES OF MEETING	LIEU / PLACE : teleconf	
SUITE / CONTINUED :			ACTION
<u>General Point :</u>			
A database common to A following documents : - Warm Units mechanic - WU electrical ICDs + - WU CAD models in lin - SVM CAD models - CAD models of harnes A list will be created, main update. The info will be a Official CRs shall then fol The list of the WU MICD in	SED/ALS/NXH shall be managed al ICDs all relevant documents ne with the list ss routing ntained and distributed by ASP to vailable on the ftp server. low the updates. s given in annex 1 of the present	all parts at each	
Access to the server has to	o be given to Nexans.		AI#1 ASP
Review of ASED comm (refer to mail sent on 28/0 MN-3422).	<u>ents</u> 07/03 and given in annex 2 and	also to MoM H-P-ASP-	31/08/03
PACS panel			
 Agreed by Nexans when WIH+SVMH. 	o will assess it and reduce the pla	ace taken by	31/08/03
2) Information to be cros database	s-checked basing on own docum	nent and with next	AI#3 ASED / NXH / ASP 05/09/03
 Additional : DECMEC : to avoid in DECMEC, NXH will ro H.). When not possible close as possible to the BOLC : H. other than the unit and minimised constraint into account 	terference between WIH and Cry ute the bundles via the other side e, H. volume taken shall be minin e units (fixed to it) Cryo running on the unit stay as d volume). Cryo to be updated by t.	oH. on top side of es (same for internal mised and routed as is (fixed on left side of y ASED taking this	

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COMPTE RENDU DE REU	NION / MINUTES OF MEETING	LIEU / PLACE : teleconf	
SPIRE panel			
1) agreed by NXH, will b	e updated accordingly		AI#4 NXH 31/08/03
 OBDH routing has been upward their supports routed lower because class Eventually, ASE Signal H. (blue) 	en updated and is shown in Ann- to avoid interference with this H it is not compatible with Pwr H. (D can add a support in-between	ex 3. ASED shall shift OBDH cannot be red) – different EMC Pwr H. (red) and	AI#5 ASED 31/08/03
 Agreed in the principle (alternate tie-bases, to closer to the unit may 	e by NXH, occupied volume will l reduce inter-bundles distance, c save 20 mm)	be minimised and bring harnesses	AI#6 NXH 31/08/03
Additional : - major interference bet The routing here is un NXH does not need to	ween CCH and SVM H. in CCU der assessment by ASED and fee modify its design for the momen	lower left corner area. dback is expected, nt.	AI#7 ASED 31/08/03
HIFI –Y-Z panel			
1) ALS and ASED feedba in FCU/Up-converter of	ck expected before updating / fin area by NXH.	nalising of the routing	
HIFI –Y			
 Due to EMC class separate to the unit (presence of on the lateral panel to web. This has to be fir PWR H. already runs of will be minimised. 	aration, Signal H. above LSU car of PWR H.). NXH proposes to rou- oward left side, through the 2 cut- st checked with ASED. close to LSU and LCU, if still poss	nnot be brought closer te FHLCU Signal H. -outs in left shear sible, volume occupied	AI#8 ASP/ASED 01/08/03
2) Information to be cros database	s-checked basing on own docun	nent and with next	AI#9 ASED /
3) See 1)			05/09/03
Star Trackers H. routir	ng		
Star Trackers H. routing w reached.	vill be studied once the final acco	ommodation has been	

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COMPTE RENDU DE REU	NION / MINUTES OF MEETING	LIEU / PLACE : teleconf	
Telescope harness			
CAD model giving new lo	ocation for this bracket to be sent	to NXH by ALS	AI#10 ALS 01/08/03
Review of instruments (refer to mail sent on 22/0	<u>comments</u> 07/03 and given in annex 4)		
HERSCHEL			
HIFI Instruments			
 In principle, EMC class checked when finalising 	s separation has been taken into ng routing.	account, to be	AI#11 NXH 31/08/03
Following example ha cables, which run fron area also cables with	s been given : "One example are n left to right over the HIFI -Y par other EMC classes are routed. »	e the IF semi-rigid nel and in the same	
HIFI shall clarify and i Industry cannot guara taken into account.	dentify all areas that do not resp ntee that all constraints have bee	ect the criterion. If not, en understood nor	AI#12 ASP/HIFI 01/08/03
2) This comment applies	to WEV-WOV and WEH-WOH h	arness routing	
3) 4) OK, will be implem	nented for final routing		
5) the new backshells (se routing in WOH/V and routing near units like routing.	e Annex 4 bis) impacts strongly t d WEH/V areas (interference with semi-rigid cables). This will be a	he definition of the other bundles ssessed during final	AI#13 NXH 31/08/03
Remark : if problemat using of shims.	ic, semi-rigid cables could be he	ightened / panel by	
SPIRE			
1) Comment not underst All Tie-bases implemented each. Sometimes bundles	ood, please clarify. d are TC-105 ones supporting el are running in parallel.	ementary bundles	AI#14 ASP/SPIRE 01/08/03
PACS			
1) backshells type is of N	IXH responsibility.		
2) Comment not underst	ood because FHFPU is not in SVI	м	

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COMPTE RENDU DE REUNION / MINUTES OF MEETING

LIEU / PLACE : teleconf

PLANCK

HFI 4K subsystem

- on 4K CDE, J9 (15 way connector) connects to one of the "unused" D Connnectors on the compressors (Specifically C137P). This carries the AD590 temperature sensors on the compressors (Compressor A & B temperatures and PPO A & B temperatures).
- 2) The small connector on 4K CAU does not connect to the CDE (previously J9) but runs along the pipe up to the disconnection box (see picture in Annex 4 ter).
- Information shown in Annex 4 quarterio extracted from document SEA/02/TN/3683 IC-PHDC-000064-SEA Issue 1 draft A dated from January 03 which has been sent to ALS/NXH already.

Additional :

An issue of the REU-PAU harness study made by ASP is that REU has to be lowered of 20 to 25 mm on the lateral panel. The bundles routing between 4K CDE and REU shall then be grouped to form a single bundle either routing still on the panel or fixed to the 4K or REU lateral side.

Routing can be finalised.

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COMPTE RENDU DE REU	NION / MINUTES OF MEETING	LIEU / PLACE : teleconf	
HFI 0.1 K subsystem			
No point			
<i>Routing can be finalis</i> HFI DPU	ed.		
No point. NXH indicates that DPU n has no impact as it is only (DPU nom on left side of p	om and redundant are identifiec a writing play, so NXH can stay panel). TBC ASP	l. Nevertheless this with its assumption	AI#15 ASP 05/09/03
<i>Routing can be finalis</i> HFI REU-PAU harness	ed.		
ASP will transmit the CAD retained for the routing.	models by mail to ALS/NXH give	ing the configuration	
A dedicated discussion sh CAD model CW#31.	all be held between ASP/NXH/A	LS after review of the	
 Harness AIT description : 1) harness is first set on t preliminary set in SVM subplatform), then on 2) REU is integrated on th and cabling of all unit 3) Lateral panel starts be horizontal (limit angle 4) Connectors are mount 5) Lateral panel is tilted v on shear web up to RE 	he subplatform, then connected running through upper closure cone over pipes. The lateral panel (horizontal positi s on panel is in place (certainly p ing tilted with its MGSE up to a allowing accessibility to REU con ted on REU. vertically, harness is finally set on EU.	to PAU. It is also panel cut-out (along on) with other units prior to units setting). angle of 50°/60° wrt inectors). rest of the cone and	
NXH is expected to suppo out- in upper closure pan- position adjustment.	nt ASP globally but mainly for po el-, point 3) –checking of the par	int 1) –design of cut- nel tilting and for REU	
NXH will finalise the routin match with it.	ng and update LFI routing (BEU/	DAE & BEU/REBA) to	
 The constraints are : 12 cables of Ø15 mm 7 bundles of Ø6 mm of Maximum length end- No interruption 	splitting in 2 bundles of Ø9 mm on REU side. to-end of 5 m	on PAU side and on	

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 Identical lengths (end-lengths (to minimise h PAU backshells : DC3 On REU side : 6 MWD backshell, they are more is 35 mm 	to-end) for each cable, or at ma arnesses spare numbers) 7 : DC 8949 405 1NM – IDS is s M9 connectors and 1 MWDM25 olded. The distance from connect 35 mm	ximum 3 different shown in Annex 5- connector, no ing plane to harness	
 bundles shall be ground strap (ribbon+pod) wi (max. length of the rib 	nded every 200 mm as far as po Il go out of the bundle and grou bon : 50 mm)	ssible. A bonding nded to the structure	
There is an error in REU I	CD :		
p. 30 : PHCBC12-J06 becomes F PHCBC12-J07 becomes F	PHCBC12-J07 : REU PROC Mode PHCBC12-J06 : High Speed Link	ule 12 Power +28V with DPU-DP N	
p. 31: PHCBC13-J06 becomes F PHCBC13-J07 becomes F	PHCBC13-J07 : REU PROC Mode PHCBC13-J06 : High Speed Link	ule 13 Power +28V with DPU-DP R	
LFI			
No comment received exc transmitted by mail (file "(cept bundles characteristics show Cables_Balax_1.xls")	n in Annex 6 and	
BEU unit is still under deve DAE and REBA are not ex <i>these areas</i> .	elopment, and no design can be pected to change so <i>routing ca</i>	given at this moment. I n be finalised in	
SCS			
No comment has been re ASP to request for possibi truss.	ceived. lity to attach harness around SCO	Cs connecting plate	AI#16 ASP 01/08/03
Routing can be finalis	ed.		

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		A L C A T E L HERSCHEL/PLANCK				
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	ľ	COMPTE RENDU DE REUNION / MINUTES OF MEETING	LIEU / PLACE : teleconf			
		ACTION			DATE	
INITIATOR	°Z	DESCRIPTION		ACTIONEE	DUE	
Firm / person				Firm / person		
HXN	-	Access to server and common database		ASP / BM	31/08/03	1
ASED	2	Reduce place taken by WIH/SVMH		NXH/KP	31/08/03	1
ASED/NXH/ASP	ы	DECMEC connectors interference between CryoH and	J WIH	ASED/NXH/ASP	02/00/03	1
ASED	4	Enlarge free-space area at FCU left		NXH/KP	31/08/03	
NXH	5	Shift CryoH. support upward and implement one in-be	ietween PWR/Signal	ASED/JL	31/08/03	
ASED	9	Reduce place taken by WIH/SVMH		NXH/KP	31/08/03	
NXH	7	CCH to be re-designed in CCU lower left corner		ASED/JL	31/08/03	
HXN	∞	Check possibility to route LCU Signal through shear w	veb cut-outs	ASP/ASED	31/08/03	_
ASED/NXH/ASP	6	DECMEC connectors interference between CryoH and	HIM F	ASED/NXH/ASP	05/09/03	
NXH	10	CAD model of Cone bracket for Telescope Heaters to	be sent	ALS	01/08/03	
ASP	11	Check segregation of all different bundles		NXH	31/08/03	
NXH	12	Identify problematic areas		HIFI/ASP	01/08/03	-
ASP	13	Check backshells implementation		NXH	31/08/03	
HXN	14	Clarify comment		SPIRE/ASP	01/08/03	
NXH	15	Clarify which DPU is nominal and redundant		ASP	05/09/03	
NXH	16	Ask for possibility to attach harness on SCC connecting	ng plate	JPL/ASP	01/08/03	

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