


**COMPTE RENDU DE REUNION / MINUTES OF MEETING**

LIEU / PLACE : CANNES

OBJET / PURPOSE :

CLASSIFICATION :

**CCB#19**

PARTICIPANTS ATTENDEES	SOCIETE FIRM	SIGNATURE SIGNATURE	PARTICIPANTS ATTENDEES	SOCIETE FIRM	SIGNATURE SIGNATURE
JJ. JUILLET			G. SERRA		
P. RIDEAU					
J.Ph. CHAMBELLAND					
B. COLLAUDIN					
G.LUND					
REDACTEUR / WRITTEN BY : B.COLLAUDIN					

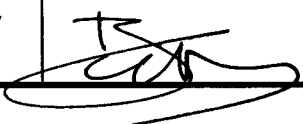
**CONCLUSION :**

Review of all pending Instruments Change requests.

Industry (after iteration with Alenia & Astrium) proposes a status of CR (Accepted, rejected, withdrawn, obsolete, in progress) as input for ESA CCB, and in view of next IIDB's update.

DISTRIBUTION : PARTICIPANTS /  ATTENDEES	POUR ACTION : FOR FURTHER ACTION	ESA: G.Crone, A.Heske, C.Scharmberg, J.Marti-Canales Astrium: E.Hoelzle, S.Idler, H.Faas, D.Schink, Wietbrock Alcatel: Participants + S.Raphel, C.Masse Alenia: M.Cesa, M.Sias, R.Droetto SPIRE: E.Sawyer, J.Delderfield PACS: O.Bauer, R.Katterloher HIFI: K.Wafelbakker, W.v Leeuwen HFI: J.Charra LFI: C.Buttler SCS: A.Nash
	POUR INFORMATION : FOR INFORMATION	

APPROUVE PAR / APPROVED BY

NOM / NAME	Collaudin			
SIGNATURE / SIGNATURE				



HERSCHEL/PLANCK

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SUITE / CONTINUED :

CCB on Instrument Change requests  
 CR were discussed at latest instrument interface meetings:  
 HFI : 2003-02-12 - H-P-ASPI-MN-2688  
 SPIRE: 2003-02-27 - H-P-ASP-MN-2748  
 PACS: 2003-04-09 - HP-ASP-MN-2954  
 HIFI: 2003-03-12 - H-P-ASP-MN-2809  
 All: 2003-03-04 - H-P-ASP-MN-2781 - SVM Instruments mechanical interfaces  
 References used below are "Instrument reference" <-> "Alcatel reference"  
 (when transmission to Astrium or Alenia is required)

**Planck Instruments CR**

**HFI**

**HP-HFI-CR-16 <-> H-P-ASPI-CR-118 (To Alenia)**

**Secured LCL for DPU/REU**

Accepted - Formal answer received from Alenia CCB 43 (HP-ALS-03-0135).  
 Modification was already included in HFI IID-B 2.1

**HP-HFI-CR-17 <-> H-P-ASPI-CR-119 (To Alenia)**

**LCL REU Belt**

Accepted - Formal answer received from Alenia CCB 43 (HP-ALS-03-0135)..  
 Was already included in IID-B 2.1

**HP-HFI-CR-19 <-> H-P-ASPI-CR-196 (To Alenia)**

**Temperature stability PAU 1.1K/h**

Accepted. Consistent with results of thermal analysis. (See also results of Alenia CCB n° 43 (HP-ALS-03-0135)).

**HP-HFI-CR-20<-> H-P-ASPI-CR-206 (to Alenia)**

**REU Footprint – removal of the baseplate**

Cancelled after negotiation with HFI 'replaced by HP-ASPI-CR 344  
 (modification of the baseplate footprint)

ACTION

Accepted

Accepted

Accepted

Cancelled

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(no HFI CR) <-> HP-ASPI-CR 344 (to Alenia)

**REU Footprint modification to improve thermal contact & number of feet**

Accepted technically by Alcatel, but Alenia ECP in preparation (See Alenia CCB n° 43 HP-MI-AI-231). CR Required from HFI.

Accepted -  
ECP

**HP-HFI-CR-21 <-> H-P-ASPI-CR-207 (to Alenia)**

**Max Qualification temperature of 40°C for He tank for full pressure**

Accepted – Compliant with thermal control performances - No impact. See mail from Marco Cesa 26/3/03.

Accepted

**HP-HFI-CR-22 <-> H-P-ASPI-CR-208 (To Alenia)**

**Min Temp of PAU (-20°C → -10°C)**

Accepted – Compliant with Thermal Control - No Impact. See mail from Marco Cesa 26/3/03.

Accepted

**HP-HFI-CR-26 <-> H-P-ASPI-CR-209 (to Alenia)**

**DPU Connector (for DPU to DPU harness, modify envelope volume)**

Accepted No Impact. See mail from Marco Cesa 26/3/03.

Accepted

(no HFI CR) <-> H-P-ASPI-CR-274 (to Alenia)

**procurement of missing Y shaped Warm interconnecting harness PCDU->4KCRU & 4KCDE.**

Harness will be manufactured with the SVM Harness. ECP in preparation.

Accepted -  
ECP

(no HFI CR) <-> H-P-ASPI-CR-337 issue 2 (to Alenia)

**PAU Baseplate modification + update of PAU mass. (10 →15kg !)**

Still in process (update of CR to be sent to Alenia. Action JPC).

OPEN.  
JPC to Send  
CR Update to  
Alenia

(no HFI CR) <-> H-P-ASPI-CR-387 (to be sent to Alenia)

**Update of HFI warm units ICD's**

- 4K CAU : drawing AO TS-0063-700 and AO TS-0063-807 (drilling detail)
- 4K CDE : drawing KE-0151-001 Issue E dated 11/09/02
- DPU : drawings I591EB002 issue A, I591EB003 issue B, I591EB004 issue A

Accepted –  
Check by  
Alenia

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- DCCU : drawings H0201C006 Iss. A and H0201C009 Iss. A
  - 4K CRU (Envelope ICD prepared by Alcatel)
- Still in signature process at Alcatel.  
CR accepted by Alcatel, as no impacts are expected.  
Comments to be received from Alenia

#### HP-HFI-CR-23

#### Switch-on DPU & DCE shortly after Launch (to open Dilution valve & flush dilution pipe before condensing & clogging).

Accepted. HFI units will be switched on before 1<sup>st</sup> Groove reaches 100K (Few hours). Will be included in IID-B. Caveat on section 5.9.5.

Accepted

#### HP-HFI-CR-24

#### Temperature sensors on Planck reflectors

Accepted - There will be at least 2 redounded Planck PLM sensors on each Reflectors and baffle. Except that the absolute accuracy of temperature sensors is only +/- 1.5 K (narrow range) & +/- 3K (wide range) instead of 0.3K required by HFI. Temperature measurement resolution will be <0.3K (narrow range).

Accepted -  
Restriction

#### HP-HFI-CR-25

#### Slew timing in mission timeline

Accepted. Relevant slew information (timing, duration, ...) will be in mission timeline.

Accepted

#### (no HFI nor LFI CR) – H-P-ASPI-CR-179 & 180

#### Applicability of HFI and LFI - IID-B 2.1 to Alenia.

Received ECP n° 16 from Alenia (also for Herschel IID's). Considered as Normal work.

Accepted

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## LFI

(no LFI CR, to replace TBD in IID-B 2.1) <-> H-P-ASPI-CR-197

### 0.2K/h of BEU

Thermal analysis shows that 0.2K/h (drift) can be respected (clarification mail after PDR from M.Cairola 11/4/03). However, no formal commitment from Alenia. Main perturbation is the sorption cooler fluctuation (fundamental at 667s).

It should be checked with LFI that without the 100GHz, this requirement is still applicable. Action JPC).

Alcatel accepts that the above requirement is included in the LFI IID-B, but temperature stability can be guaranteed only outside of the effect of large Planck slews (large slew means slew larger than nominal 1° daily slews).

## SCS

No SCS CR <-> H-P-ASPI-CR-338

**Update SCC drawing to version 17 (issue 1) then 20 (issue 2) to Alenia**

Still in process. Last Alenia mechanical analyses were made with ICD version 10, and identified sliding.

Version 17 correspond to removal of fixation holes not connected to anything inside the SCS

Version 20 correspond to the increase of bolt size from M4 to M5 on all fixation not under the sorption beds or Low & high pressure stabilisation beds supports. This decision was taken in agreement with Alenia.

Accepted -  
Restriction

Open

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## Herschel Instruments CR

### SPIRE

Note 1: The configuration management of CR's by SPIRE is hard to understand, as there are several version with same date & ref. number.

#### HR-SP-RAL-ECR-09 v5 <-> H-P-ASPI-CR-0030 (to Astrium)

##### Thermal requirements SPIRE

Was already issued for version IID-B 2.2, but rejected as not feasible. CR will be re-written by Alcatel/Astrium (using temperature/heat flow tables) after thermal meeting HP-2-ASED-MN-343 (Action B.Collaudin)

#### HR-SP-RAL-ECR-029 v3 <-> H-P-ASPI-CR-0291 (to Astrium)

##### Harness Update

HR-SP-RAL-ECR-029 Version 2 returned from Astrium as Obsolete (HP-2-ASED-FX-157/03)

To be transmitted to Astrium, with the following comments :

" We propose to add SPIRE Harness definition document an annex to IID-B, with applicability matrix (system diagram section 3 + Annex 1 & 2 (Internal & external cryo-harness.

Over-shield not to be taken into account, as CR 39 does not have positive answer from ESA"

This CR has been taken into account for the current PDR definition of cryo-harness (however data-pack not available on 22/4/03)

Action B.Collaudin

#### HR-SP-RAL-ECR-030 v2 <-> H-P-ASPI-CR-0292 (to Astrium)

##### Temperature sensors by Spacecraft

Commented by Astrium. Demand almost already implemented in Cryostat instrumentation

However, Alcatel considers that the number of temperature sensors requested by SPIRE is too large wrt what will really be used in orbit.

Alcatel proposes one temperature sensor at each thermal interface; + few general purpose (to be shared with other instruments (OBA, Instrument shield).

Range and accuracy to be adjusted to CCU build in capabilities.

Ref Alcatel mail H-P-ASP-LT-3035 with proposed reduced list.

CR to be updated accordingly after agreement.

Open

Accepted -  
ECP

Rejected.

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**HR-SP-RAL-ECR-032 <-> H-P-ASPI-CR-0293 (to Astrium)**

**Removal of shutter**

Accepted. Impact on cryo-harness, taken into account via CR 29  
(see also Astrium fax HP-2-ASED-FX-158)

Accepted

**HR-SP-RAL-ECR-033 (no formal transmission to subcos)**

**IIDB with 3D views.**

Cosmetics, Accepted.

Accepted

**HR-SP-RAL-ECR-039 v.1 <-> H-P-ASPI-CR-0265 (to Astrium)**

**Cryo-harness update including internal over-shield.**

Closed with ECP received from Astrium HP-2-ASED-CP-54 , transmitted to ESA.  
Action at ESA to accept or reject. Considered as not accepted yet (see comments on ECR 29)

ECP transmitted to ESA

**HR-SP-RAL-ECR-0040 v1 <-> H-P-ASPI-CR-0294 (to Astrium) & H-P-ASPI-CR-320 (to Alenia)**

**Updated FPU & SVM unit drawings**

Version 2 of CR 40 still expected, with updated drawings.  
Accepted with the comments from ASED fax HP-ASED-FX-231/03 & 331/03, sent to SPIRE & replied. (14/4/03)  
Drawing pack version 4 received with CR 47 (deleted ?), but not including modification on FPU  
No change for ECR 320.  
Only JFET Drawings changes affecting CR 294  
2 JFET RACK Interface drawing 0-KE-0104-360-E becomes issue F.  
6 JFET RACK Interface drawing 0-KE-0104-350-C becomes issue D  
Most of the ASED comments remains applicable for the FPU drawings.  
Drawing pack version 5 expected.

Accepted, with restrictions (comments from Astrium) Drawing update expected.

**HR-SP-RAL-ECR-0041 v1**

**Sorption cooler cryo-cooler re-cycling clarification**

Closed without impact. The constraints of the sorption cooler orientation are understood, and compliant with Herschel Cryostat & PACS. Text from John to be clarified at IID-Edition.

Accepted

**HR-SP-RAL-ECR-0044 v1**

Open



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**JFET rack foot mounting details on OB**

To be formally sent to Astrium. Action GD.

Action GD

**HR-SP-RAL-ECR-0045**

**DRCU drawings**

Deleted by SPIRE (covered by ECR 40)

Withdrawn

**HR-SP-RAL-ECR-0046**

**Include HSPDU interface circuit**

Accepted by ASP (Sent to ALS for info) to be Update in IIDB

Accepted

**HR-SP-RAL-ECR-0047**

**IID-B Spire Unit ICD Annex Re-issue**

Deleted, becomes version 2 of ECR 40

Withdrawn

**HR-SP-RAL-ECR-0048**

**Mass Budget**

Accepted by Alcatel (only 500 g less). Sent to Astrium & Alenia for info only

Accepted

**HR-SP-RAL-ECR-0049**

**3D view of JFET boxes**

Cosmetic. Accepted by Alcatel. No CR's transmitted to subcos

Accepted

**HR-SP-RAL-ECR-0050**

**Input beam 3D**

Cosmetic Closed at Alcatel level (no CR to ASED).

Alcatel believes that this CR should be completed with quantitative description of SPIRE beam

Accepted

**HR-SP-RAL-ECR-0051**

**Change Bolt pattern & size at the thermal interface (M3 to M4) as consequence of thermal meeting on 4/4/03**

Not a spacecraft interface.

This CR is related to the Sorption cooler heat switch to SPIRE strap interface, and does not affects the SPIRE FPU to cryostat interface.

Withdrawn  
(not spacecraft interface)

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## PACS

**HP-PACS-CR-05 <-> HP-ASPI-CE-202 (To Astrium)**

### PACS FPU Alignment requirements.

Data in this version are obsolete. The figures have been agreed in Herschel telescope working group. A new CR is expected (PACS CR-31). As nothing comes out, Alcatel has re-written CR-5 (from agreements reached at telescope Working group), submit it to PACS & Astrium, and send it to Astrium (see mail from Ph.Martin on 22/4/03)

Obsolete  
To be re-written

**H-P-PACS-CR-09 <-> H-P-ASPI-CR-284 (To Astrium)**

### Thermal interface FPU

To be re-written B.Collaudin (as for and compliant with SPIRE)

Obsolete  
To be re-written

**H-P-PACS-CR-25**

### PACS cryo-harness update

Withdrawn, replaced by H-P-PACS-CR-28 after removal of BOLA

Withdrawn  
See CR 28

**H-P-PACS-CR-26**

### On Board Time connector

Accepted by Alcatel, but implementation is not there, and has to be done  
The requested line is a synchronisation line (as for SPIRE DPU). On board time is delivered via the 1553 Bus.  
CR to be Urgently sent to Alenia for Evaluation.

Accepted but  
ECP to come.  
Action GD to  
send it to  
Alenia.

**H-P-PACS-CR-27 <-> H-P-ASPI-CR-285 (To Astrium)**

### BOLA removal

Accepted. Word version of this CR is hard to read on MS word 97 (nested tables). PDF version required form PACS  
(see also HP-2-ASED-FX-115/03)

Accepted

**H-P-PACS-CR-28 <-> H-P-ASPI-CR-286 (To Astrium)**

### Cryo-harness doc. & Spec update (Annex 3, PACS-MA-SP-001 v 3.1).

Update of cryo-harness document version 3.1: This is included in Astrium Harness data-package. HP-2-ASED-CP-57 included. Alcatel recommends to accept it to comply with current instrument definition  
See also HP-2-ASED-FX-119/03

Accepted with  
ECP

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**H-P-PACS-CR-32**

**Proposition to group cables on Vacuum feed-through.**

PACS does not agree with the way Astrium has grouped the cryo-harness at the level of the CVV feed-through connectors, as it does not fit with the already ordered ILT harness.

This CR arrives late wrt the existing Harness design and IID-B update processes, and its implementation will impact the harness schedule (on critical path) Alcatel propose to reject it, as no justification of the modification id given (except difference between ILT, and QM/FM)

rejected

**H-P-PACS-CR-33**

**DECMEC Power increase from 65 to 80W**

- 1: No increase of power possible now on Herschel, as Solar array is defined.
- 2: It is not clear how the instrument power is affected.
- 3: No detail design of DECMEC available yet (ITT mid April 2003)
- 4: CR not readable (word 97)

Rejected

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## HIFI

### H-P-HIFI-CR-09 <-> H-P-ASPI-CR-34 (To Astrium)

withdrawn

#### LOU Temperature 150 to 120K

Obsolete as HIFI is responsible to LOU Radiator & Thermal control.

### H-P-HIFI-CR-37 <-> H-P-ASPI-CR-295 (To Astrium)

(ref Astrium fax HP-2-FX-212-03

This is taken into account in the Harness data package. Accepted in Meeting HP-ASPI-MN-2241, except LOU. LOU harness resistance question finally agreed at meeting HP-2-ASED-MN-345 (based on Astrium measured resistances). It is agreed that max resistance of 50mOhm applies only for orbital conditions

CR can be accepted by Industry.

Accepted with restriction

### H-P-HIFI-CR-39v3 <-> H-P-ASPI-CR-296 (To Astrium)

#### LOU interface

Open. Updated LOU interface drawing is still expected from HIFI.

Open (to be updated from HIFI)

### H-P-HIFI-CR-53 v1 H-P-ASPI-CR-297 (To Astrium)

Closed. Harness update taken into account in PDR data package  
See also HP-2-ASED-FX-219/03

Accepted, ECP

### H-P-HIFI-CR-56v4 <-> H-P-ASPI-CR-312 (To Alenia)

#### LCU interface drawing.

There was some mistake in the HIFI drawing. HIFI wants to correct it by modifying the footprint of LCU (327mm taken into account in SVM, 323 mm would now be required by HIFI).

Alcatel accepts the modification of the feet pattern, and will modify the existing LCU MTD accordingly. SVM drawings to be updated by Alenia

Accepted  
To resent to Alenia  
GD

### H-P-HIFI-CR-57v1 <-> H-P-ASPI-CR-298

#### dT/dt, dP/dt for FPU in cryostat

ASED proposed a realistic slope for cooling FPU, as expected in Cryostat (HP-2-ASED-FX-307).

We propose to include the HIFI proposal in IID-B together with Astrium restrictions.

20K/h Only above 50K (Thermal contraction is very small below anyhow)

Accepted, with restrictions

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100mb/h (goal only)

20K delta T between L0 , L1 & L2, except during launch autonomy.

G.Doubrovik to send this agreement to HIFI.

**H-P-HIFI-CR-58 v2 –**

**Responsibilities of HIFI subsystem**

OK. Needs to be updated by HIFI . No impact

Accepted

**H-P-HIFI-CR-59 v4**

**Instrument description**

Agreed. Not a requirement, affects section 4

Accepted

**H-P-HIFI-CR-60 v2**

**Standing wave requirement.**

This requirement should affect the Telescope specification (M2 design, T stability)

This could be added in IID-B for info only, and requires no test nor analyses from the spacecraft.

Rejected.

**H-P-HIFI-CR-61v1 <-> H-P-ASPI-CR-299 (to Astrium)**

**Thermal model update**

Accepted. But new version of thermal model received meanwhile. This latest HIFI model received from Astrium on 2/4/03 (hifintrm.d) to be included in IID-B.

Ref also HP-2-ASED-FX-584/02

Accepted

**H-P-HIFI-CR-62 <-> H-P-ASPI-CR-300 (to Astrium)**

**Requirement for ESD Handling and FPU flushing during integration.**

Alcatel and Astrium refuse to refer to several Instrument internal documentation for handling the FPU.

Standard ESA handling requirements will be used. If specific precautions have to be used, the MUST be explicitly identified in IID-B.

The purging is not justified, and not properly specified (see also CR 64 purging LOU)

Ref also HP-2-ASED-FX 673/02

Rejected.

**H-P-HIFI-CR-63 <-> H-P-ASPI-CR-301 (to Astrium)**

Cleanliness

Rejected, as already covered by section 5.15.3 of IID-B

rejected

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**H-P-HIFI-CR-68 <-> H-P-ASPI-CR-304**

LOU window transmission  
Withdrawn by HIFI (see H-P-ASP-MN-2809)

withdrawn

**H-P-HIFI-CR-64 <-> H-P-ASPI-CR-302**

**LOU Purging**

This is a serious constraint on AIV. The LOU should be equipped with a nipple (interface to purge GSE), requirement for the gas should be identified by HIFI (mass flow, cleanliness, max time without flushing, ...). The cost of the infrastructure is not negligible. The above information are needed to estimate the cost of the extra GSE.

Rejected- Not enough information

Meanwhile, the justification for purging is not given by HIFI (are not LOU component passivated ?)

If the CR is accepted by ESA, a ECP will be provided to ESA with Cost impact  
Ref also HP-2-ASED-FX-673/02

**H-P-HIFI-CR-65 v2 <-> H-P-ASPI-CR-220 (to Alenia)**

**Change of acronyms in telecommands**

Agreed. No impact  
See also Alenia CCB # 28

Accepted

**H-P-HIFI-CR-66 v2 <-> H-P-ASPI-CR-303 (To Astrium) & 307 (to Alenia)**

**AVM CQM hardware matrix**

Data from HIFI still considered as incomplete (See mail from G.Doubrovik on 27/3003, asking for complement of information about 3dB Couplers, LOU radiator). HIFI data required to complete it. (see mail from G.Doubrovik on Open.

Open

If data not sent, available information will be included in IID-B, with caveat for missing information

**H-P-HIFI-CR-71 <-> H-P-ASPI-CR-308**

**WEH-WEV drawings**

Accepted if full baseplate is in contact with SVM for thermal reason. HIFI accepted this in HP-ASP-MN-2809. IID-B will be updated with a caveat stating that there is thermal contact on all base area. Drawing should be updated by HIFI

Accepted with restrictions

**H-P-HIFI-CR-72 v3 <-> H-P-ASPI-CR-309**

**WOH-WOV drawings**

Accepted (but drawing to be

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New WOH-V drawings received on 11/4/03. H-P-ASPI-CR-309 to be updated. No full contact required here as we have iso-static mount and low dissipation. Still open, but no problems expected.

updated with latest data)

**H-P-HIFI-CR-74 v1 <-> H-P-ASPI-CR-310**

**FCU Drawing**

Accepted if full baseplate contact on SVM

Accepted with restriction

**H-P-HIFI-CR-75 v1 <-> H-P-ASPI-CR-311**

**HRS/V drawings**

OK Accepted if full baseplate contact on SVM

Accepted with restriction

**H-P-HIFI-CR-77**

withdrawn, will be merged with H-P-HIFI-CR-66

withdrawn

**H-P-HIFI-CR-79**

**clarification for LOU wave guides**

Can be accepted. Needs to be transmitted officially to ASED

OPEN  
To be transmitted to ASED

**H-P-HIFI-CR-81**

**Constraint on Ground test with LOU at room Temperature.**

Can be accepted by ASP. Needs to be transmitted to ASED

OPEN  
To be transmitted to ASED

**H-P-HIFI-CR-76**

**Change of 3dB Couplers to IF up-converters.**

This is a huge change in the HIFI definition, and late wrt the SVM.

This CR is considered as incomplete: Additional warm interconnecting harness is needed. No size, mass, dissipation, drawing of these potential new warm units are given. Rejected for complement of information, and suggest HIFI to find a solution without impact on the spacecraft.

Could be accepted if the size of these units and the footprint is close to the 3dB Couplers. Target date to close; 1/5/03

Meanwhile Alcatel sent ICD of 3dB couplers to HIFI.

Rejected. Not complete

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**H-P-HIFI-CR-84**

**LSU configuration**

new ICD received not compliant with the previous one (feet spacing, volume, position of connectors. Position of wave-guide interface not compliant with agreement reached with HIFI. Rejected.

Rejected