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<b>SUBJECT:</b> ICC meeting			SPIRE-ESA-MOM-000173-10
<b>PLACE:</b> RAL/Didcot (UK), 20 January 1999			
<b>Participants</b>		<b>Organ.</b>	<b>Distribution</b>
			Participants +
P. Roelfsema	(HIFI)		T. de Graauw, H. Aarts (HIFI)
O. Bauer	(PACS)		A. Poglitsch (PACS)
K. King	(SPIRE)		M. Griffin, R. Carvell (SPIRE)
R. Emery	(SPIRE)		
T. Dimbylow	(SPIRE)		ESA:
P. Estaria	ESTEC SCI-PT		B. Taylor, F. Felici, S. Volonte
G. Pilbratt	ESTEC SCI-PT		

### AGREEMENTS / STATEMENTS

#### Introduction:


As requested at the 3rd FIRST/Planck Payload meeting with the Delegations held on 11.01.1999 in ESA HQ, a meeting to address specific ICC issues was held at RAL on the 20.01.1999.

The purpose of the meeting was to solve, prior to the SPC meeting of 16-17.02.1999, specific shortfalls identified in the ICC funding, which in the view of the Instrument Teams are introduced by the FIRST Ground Segment concept by giving the ICCs responsibilities for tasks that go beyond what would normally be expected to be nationally funded for similar missions. The ICCs were asked to provide lists of these particular tasks with estimates of the effort needed to carry them out.

All participants stated their full commitment to a successful FIRST/Planck Payload re-confirmation at the next SPC meeting and their determination to work in an open and constructive spirit in order to solve the current "ICC difficulties", which are considered minor at this stage in the broader framework of the overall FIRST/Planck payload, thus allowing their respective Delegations to confirm the selection of PIs and instruments for FIRST and Planck made by the SPC in May '1998.

#### PACS:

O. Bauer stated that in the PACS consortium's and DLR views the assumed necessary PACS ICC support to FIRST "surveys" is an "additional" task, since it entails support to the scientific community at large which traditionally is an ESA responsibility and since the ICCs have been specifically set up to prepare for and carry out instrument operations. It was noted, however, that it is somewhat difficult in this case to define a clear separation between purely "scientific" tasks and operational tasks since the survey results will influence scientific operations. The PACS views on surveys were supported by HIFI and SPIRE. O. Bauer made reference to the Oxford meeting in October 1997 where this issue was discussed between MM. Hartmann (DLR), Genzel (MPE) and Taylor (ESA).

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Subsequently D/SCI would have expressed his willingness to "find a solution". The "requirement" to allocate ICC resources to survey work is the basis for the request from PACS to ESA to provide support (form to be discussed) estimated at about 1 MEURO for the duration of the operations phase. The meeting acknowledged that the issue of the "survey" support will have to be addressed in more detail in due time and expressed confidence that a solution satisfactory to all parties can and will be found. With this understanding O. Bauer stated that the German Delegation will have no problem in confirming its full support for PACS.

#### HIFI:

P. Roelfsema re-stated that the important issue of surveys will have to be addressed by all -ESA and Instruments Teams-in the course of the overall Science Ground Segment detailed definition. He also pointed out the criticality of FINDAS for the overall science operations concept and therefore the necessity for both ESA and the Instrument Teams to work closely together and devote the proper level of resources to FINDAS. This was agreed by all.


P. Roelfsema stated that the HIFI consortium has no problem in funding their ICC, which is therefore not an issue for SPC approval.

#### SPIRE:

R. Emery explained that the current shortfall in years 2002 to 2007 in the UK financing of the SPIRE ICC was partly due to the fact that, as a result of the "Hough Panel" review, in January 1998, of the overall FIRST/Planck science payload, the ICC had been allocated a low priority. As with the other instruments it was also considered that in addition to the "survey" support mentioned above several "additional" tasks (see next point) were now requested from the SPIRE ICC. The SPIRE ICC "Statement of Position on Funding" is attached as Annex 1. It was indicated that SPIRE ICC funding was committed until the end of commissioning only. The level of funding foreseen, but not yet approved, for the operations is considered adequate at this stage. "Additional" expenses amounting to roughly 1.5 MEURO during operations were also identified by SPIRE as a consequence of the ICC concept.

#### List of "additional" tasks

In addition to the larger issue of surveys several others items were seen as additional tasks or constraints on the PI teams as a result of the -accepted- ICC concept. K. King provided a list including RTA/QLA, Instrument Command Translator, (ESA) Software standards, Calibration Uplink System, operations preparations and management which in his view would require extra effort that would roughly add up to the 1.5 MEURO shortfall in the years 2002 to 2007 mentioned at the Payload meeting in Paris. This assessment was supported by

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Bauer but questioned by ESA.

Post launch additional tasks would be mainly in the areas of operations management, software maintenance, specific operations, e.g. instrument health and safety and maintenance of facilities. It was agreed that the most productive way forward is to consider these items as areas where common work through the Commonality Working Groups mechanism could bring substantial savings.

#### **AOB:**

- ESA clarified that the FIRST minimum lifetime requirement to be considered for costing purposes was 3 years operational lifetime at L2. The transfer phase duration is -depending on launch parameters- 3 to 6 months (likely to be 4 months) during which commissioning and most of the PV phase can be carried out. The FSC has planned for 3 1/2 years of orbital operations.
- The possibility to reduce the overall costs of the Ground Segment S/W licences by a common procurement shall be investigated jointly between ESA and the Instrument Teams.
- The ICC managers submitted updated ICC figures (or confirmed the existing figures) for the ICC development phase (pre-launch) and for the operations phase. It is clear from the differences between the various figures that comparison of the tasks between the various ICCs is not straightforward and should not be attempted
- It was agreed that the generation of a high level overall operational scenario is a high priority. It was agreed that HIFI, PACS, SPIRE, the FSC and the MOC will submit a first draft by end-Feb. 1999.

A GS meeting is planned at ESTEC for the 17.03.99.


#### **Conclusions:**

It was concluded that:

- The minor shortfalls, in the development period prior to launch and during the post-launch operations can be solved.
- Several potential ways (not mentioned in detail here) of achieving this objective have been identified.
- In order to achieve the required savings (and possibly beyond) through optimal allocation of tasks between the contributors to the Ground Segment ESA and the Instrument Teams should consider the entire Ground Segment (and in particular the facilities to be provided by the FSC).
- FINDAS, clearly, is to be procured by ESA. Responsibility for implementation within ESA should be settled.
- ESA-ICC sharing of tasks for implementation of surveys shall be refined.

**Having explored the issues listed above the meeting unanimously considered that funding of the ICCs is not an issue for the FIRST/Planck Payload reconfirmation.**

The meeting adjourned at 4:30.

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## ANNEX 1

### Draft Statement of Position on Funding of SPIRE ICC

ESA and the SPIRE Consortium agree to work together on the requirements, scope and resources for the SPIRE ICC activities in order to resolve their shared concern about the present minor shortfall identified in its funding. The detailed division of responsibilities between ESA and the SPIRE Consortium for providing the ground segment needs to be examined and agreed with reference to the scope of ESA's role in earlier missions.

The emphasis is to provide the ICC functions cost effectively overall and, as one of several ways seen to help resolve this, the common development of software between the three instrument groups needs to be explored and implemented where practical and effective.



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**Subject** : ICC meeting

Please find attached the minutes of the ICC meeting (ref.: PT-MM-06330) held at RAL on 20 January 1999.

The comments received from SPIRE and PACS on the draft minutes have been incorporated. No comments were received from HIFI.

Regards,

P. Estaria

**ESTEC**

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