



DCR / ECR Number:

HR-SP-RAL-ECR-007

Spacecraft / Project	Herschel-Planck	Originator's Name	JD
System / Experiment / Model	SPIRE	Signature	John Delderfield. <i>[Signature]</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, #3 based on Jean Bruston's list. Largely a re-submission of information collated on 26 th September under points JD1-31, from even earlier information
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ECR Description	
Update to Microvibration Statement.	
Need /Justification For Change	
So S/C and Instrument systems can co-exist.	
Affected Items / Work package (Title, Number, Issue, Para)	
Section 5.6.1.1	<p>replace paragraph with:</p> <p>"Spire's mechanisms (SMEC and BSM) are sensitive to μ-vibrations between 0.1 and 300Hz, with the potential effect to displace the SMEC suspended mirrors from their optical positions. The bolometers as accommodated probably have a similar susceptibility to HOB-driven microvibration. This is potentially due to harness flexure/capacitance change rather than movement of the detector elements themselves.</p> <p>"Spire needs knowledge of the level of the microvibration induced forces on the HSFPU at its HOB interface in order to be sure it can mitigate them. These levels of the input acceleration must therefore be provided by ESA/Alcatel on timescales commensurate with the Spire design programme."</p>

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
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