

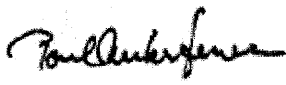

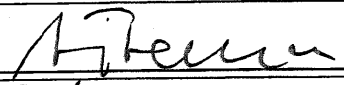
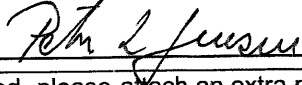


## REQUEST FOR DEVIATION/WAIVER

Program: INTEGRAL	Project Number: JEM-X	Date: 21/5/01
Check one: <input type="checkbox"/> DEVIATION <input checked="" type="checkbox"/> WAIVER    Refer. Doc. (NR/FR) No. _____		
Type: <input type="checkbox"/> Hardware <input type="checkbox"/> Software <input type="checkbox"/> Document <input checked="" type="checkbox"/> Other: Test Requirement		
Part/Document No. Affected: JEM-X, FU1, FU2, and FS		Revision: _____
Name of Part/Document Affected: JEM-X		
Drawing/Specification No. Affected: _____		Revision: 1.7
Name of Drawing/Specification Affected: EID-A		
Serial No(s)/Lot No(s). Affected: _____		
Requirement Description or Para. No. of Spec.: Omission of tests as specified in EID-A Para. 4.6.3.4. E-field Radiated Emissions, and H-field Radiated Emissions, Static and 30 Hz - 50 kHz, and Para. 4.6.3.5. E-field Radiated Susceptibility and H-field Radiated Susceptibility, Static and 30 Hz - 50 kHz.		
Reason for Request: Schedule. Justification: E-field Radiated Emissions and Susceptibility tests were performed on JEM-X EM at Alenia without problems. For H-field Radiated Emissions and Susceptibility, there is an extremely small risk that the requirements are not met by design.  To verify FM similarity with EM, conducted emissions tests will be made on FU1, FU2, and FS.		
Effect on Form, Fit, Function, Safety, Reliability, or Interface: None		
Corrective Action (if required) and Schedule Impact: N/A		
Requestor Organization: DSRI		Requestor Contact Info: paj@dsri.dk
Requestor Signature: Poul Anker Jensen, PA Mgr, DSRI		
Approval or Denial Comments: <i>H-field RE and RS tests can be waived. Not the E-field tests, not CE, CS. Please resubmit waiver accordingly for H-field only.</i>		
Approval Signatures:		
Project Manager: _____	Date: _____	
Product Assurance Manager: _____	Date: _____	
DSRI Cognizant Engineer: _____	Date: _____	



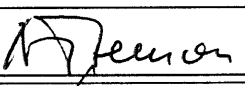
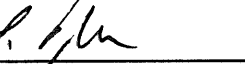
Note: If more room is needed, please attach an extra page and note block that is being continued.

REQUEST NO: IN-WV-JEM-0002**REQUEST FOR DEVIATION/WAIVER**

Program: INTEGRAL		Project Number: JEM-X		Date: 22/6/01	
Check one: <input type="checkbox"/> DEVIATION <input checked="" type="checkbox"/> WAIVER		Refer. Doc. (NR/FR) No. _____			
Type: <input type="checkbox"/> Hardware <input type="checkbox"/> Software <input checked="" type="checkbox"/> Document <input type="checkbox"/> Other					
Part/Document No. Affected: JEM-X FU1, FU2, and FS				Revision:	
Name of Part/Document Affected: JEM-X					
Drawing/Specification No. Affected:				Revision: 1.7	
Name of Drawing/Specification Affected: EID-A					
Serial No(s)/Lot No(s). Affected:					
Requirement Description or Para. No. of Spec.: Para. 4.4.1 : "In addition, all users of these power lines shall safely survive any standing or fluctuating voltage in the full range 0 V to maximum voltages defined in Table 4.4.1.1.					
Reason for Request: ESA/Alenia has recommended to disable undervoltage protection in JEM-X. By disabling undervoltage protection in the JEM-X LVPS survival can not be guaranteed for steady state power bus voltages below 16 volt specified by Interpoint as the minimum input voltage to the DC/DC converters. Alenia analysis of undervoltage, "JEM-X undervoltage analysis", 20/6/01, show that bus voltages below 16.336 V will not exist, so this modification can safely be implemented.					
Effect on Form, Fit, Function, Safety, Reliability, or Interface:  None, unless power bus voltage drops below 16 volt.					
Corrective Action (if required) and Schedule Impact:					
Requestor Organization: DSRI			Requestor Contact Info: paj@dsri.dk		
Requestor Signature: 					
Approval or Denial Comments:  <i>approved</i>					
Approval Signatures: Project Manager: 			Date: <u>18.7.01</u>		
Product Assurance Manager: 			Date: <u>31.7.01</u>		
DSRI Cognizant Engineer: 			Date: <u>18.07.01</u>		

Note: If more room is needed, please attach an extra page and note block that is being continued.

**REQUEST FOR DEVIATION/WAIVER**

Program: INTEGRAL	Project Number: JEM-X	Date: 17/8/01
Check one: <input type="checkbox"/> DEVIATION <input checked="" type="checkbox"/> WAIVER	Refer. Doc. (NR/FR) No. _____	
Type: <input type="checkbox"/> Hardware <input type="checkbox"/> Software <input type="checkbox"/> Document <input checked="" type="checkbox"/> Other: Test Requirement		
Part/Document No. Affected: JEM-X, FU1, FU2, and FS		Revision: _____
Name of Part/Document Affected: JEM-X		
Drawing/Specification No. Affected: _____		Revision: 1.7
Name of Drawing/Specification Affected: EID-A		
Serial No(s)/Lot No(s). Affected: _____		
Requirement Description or Para. No. of Spec.: Omission of tests as specified in EID-A Para. 4.6.3.4. H-field Radiated Emissions, Static and 30 Hz - 50 kHz, and Para. 4.6.3.5. H-field Radiated Susceptibility, Static and 30 Hz - 50 kHz.		
<b>Reason for Request:</b> Schedule. Justification: For H-field Radiated Emissions and Susceptibility, there is an extremely small risk that the requirements are not met by design. The instrument does not contain circuits that are very sensitive to static nor dynamic magnetic fields. No large current loops in harness or PCB layout exist, so radiated B-field susceptibility or emissions are unlikely. Similar design has never previously caused problems.		
Effect on Form, Fit, Function, Safety, Reliability, or Interface: None		
Corrective Action (if required) and Schedule Impact: N/A		
Requestor Organization: DSRI	Requestor Contact Info: paj@dsri.dk	
Requestor Signature: Poul Anker Jensen, PA Mgr, DSRI 		
Approval or Denial Comments:   		
<b>Approval Signatures:</b> Project Manager: 		Date: 30.8.01
Product Assurance Manager: 		Date: 30.8.01
Cognizant Engineer: 		Date: 30.8.01

Note: If more room is needed, please attach an extra page and note block that is being continued.  
Form DSRI-68

6/26/99:paj

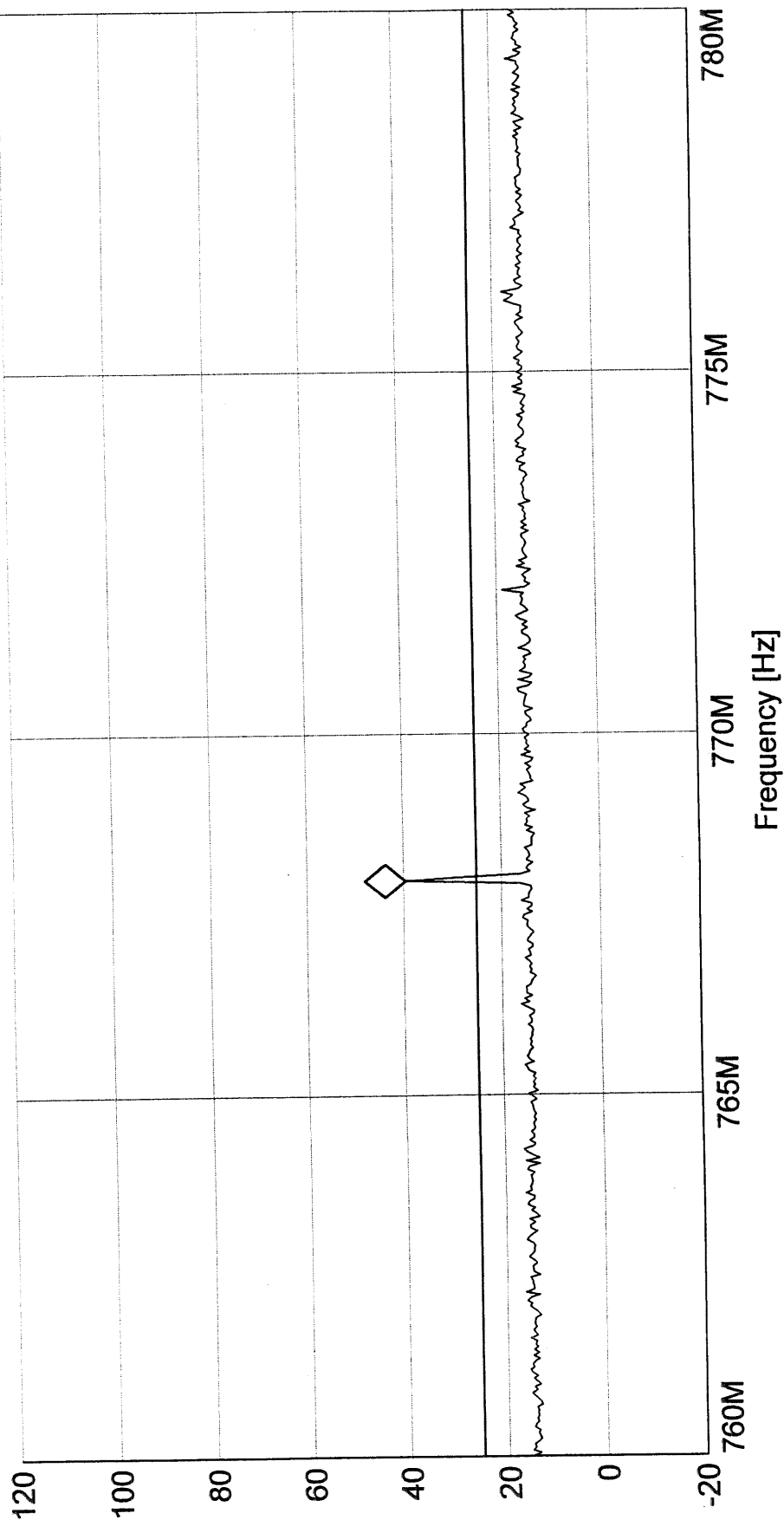
## REQUEST FOR DEVIATION/WAIVER

Program: INTEGRAL		Project Number: JEM-X		Date: 27/8/01
Check one: <input type="checkbox"/> DEVIATION <input checked="" type="checkbox"/> WAIVER		Refer. Doc. (NR/FR) No. _____		
Type: <input type="checkbox"/> Hardware <input type="checkbox"/> Software <input type="checkbox"/> Document <input checked="" type="checkbox"/> Other: Test Requirement				
Part/Document No. Affected: JEM-X, FU1, FU2, and FS			Revision:	
Name of Part/Document Affected: JEM-X				
Drawing/Specification No. Affected:			Revision: 1.7	
Name of Drawing/Specification Affected: EID-A				
Serial No(s)/Lot No(s). Affected:				
Requirement Description or Para. No. of Spec.: EID-A Para. 4.6.3.4. Radiated Emissions notch at 760-780 MHz. Test shows 14.6 dB out of spec. condition at 768 MHz.				
Reason for Request: Justification: This notch frequency is specified to avoid interference with the Proton receiver during launch. JEM-X is not switched on during launch.				
Effect on Form, Fit, Function, Safety, Reliability, or Interface: None				
Corrective Action (if required) and Schedule Impact: N/A				
Requestor Organization: DSRI		Requestor Contact Info: paj@dsri.dk		
Requestor Signature: <u>Paul Anke</u>				
Approval or Denial Comments:				
Approval Signatures:				
Project Manager: <u>12 Clausen</u>		Date: <u>30.8.01</u>		
Product Assurance Manager: <u>A. Jensen</u>		Date: <u>30.8.01</u>		
DSRI Cognizant Engineer: <u>T. M.</u>		Date: <u>30.8.01</u>		

Note: If more room is needed, please attach an extra page and note block that is being continued.

Marker: 767.975952 MHz 39.57 dB $\mu$ V/m

Level [dB $\mu$ V/m]



— MES JEM X RE 760M VP cal  
— LIM INTEGRAL RE NB 760 M