

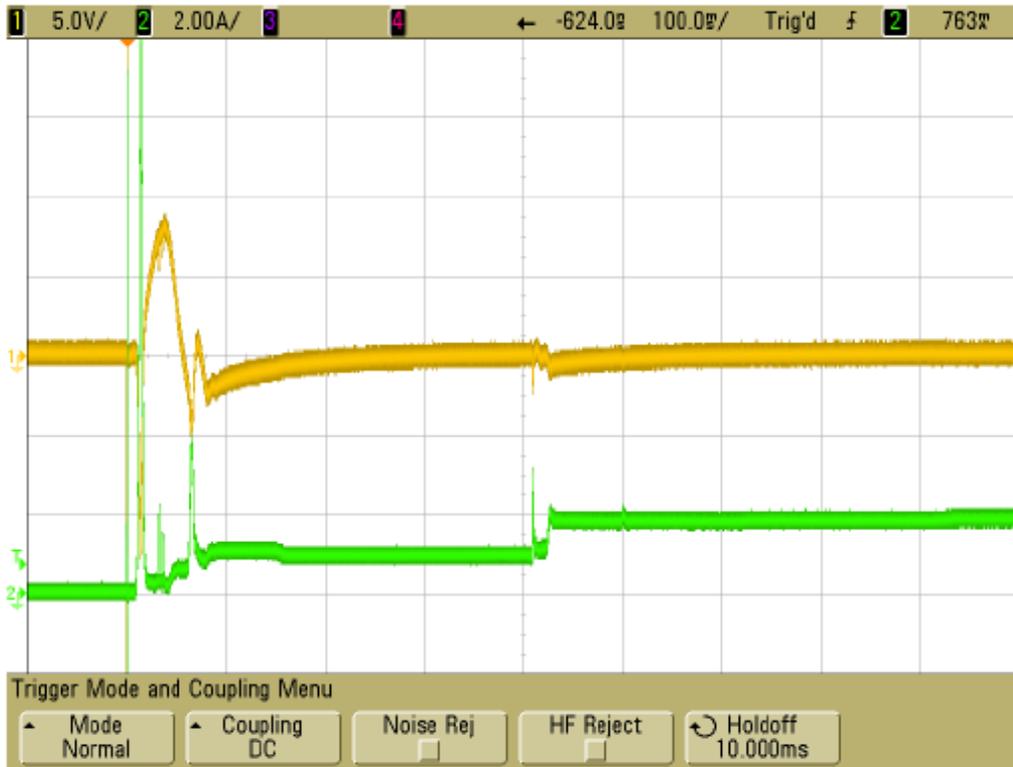
## ISS Electromagnetic Effects Panel Tailoring/Interpretation Agreement

SUBMITTAL DATE	AGREEMENT NO.	REV.	FLIGHT #(s)	Page 1 of 3	
29 March 2011	TIA # 1200	a	STS-134 / ULF6		
SYSTEM	ORIGINATOR and PHONE NO.		ORGANIZATION / CONTRACTOR		
AMS-02	Duong Nguyen (281) 486-6311		EA / Jacobs		
END ITEM/CONFIG. ID NO.	PART NUMBER(s)	DESCRIPTION	ASSEMBLY(s)	GFE	Payload
AMS-02	SEG39135720-304	AMS-02 CE07, CS01, RS02	All ISS segments except Russian segment	N	Y
SPECIFICATION NUMBER	SPEC. PARAGRAPH NO.	MANUFACTURER	CRITICALITY	SEVERITY	
SSP 30237	3.2.1.3.2 CE07 3.2.2.1.2 CS01 3.2.4.1.2 RS02	NASA/CERN	3	3	
<b>ISSUE DESCRIPTION:</b> (use continuation pages if required)					
<p>AMS-02 Payload does not meet the requirements of SSP 30237 paragraphs 3.2.1.3.2 (CE07), 3.2.2.1.2 (CS01) and 3.3.2.4.1.2 (RS02). These SSP 30237 requirements are mandated by SSP 57003, paragraph 3.2.2.4.4.</p> <p>AMS-02 Payload EMI testing was conducted on 2/22 – 2/26/2010 at European Space Research and Technology Centre (ESTEC) Maxwell EMI Test Facility in Noordwijk, The Netherlands.</p> <p>Results of EMI test show that AMS-02 initial turn ON transient exceeds the CE07 envelope by 2.75 V at 28 milliseconds and some glitches in science data received from AMS-02 data acquisition systems were detected at 80 Hz during CS01 and RS02 240 V injection testing. (Continued on page 2.)</p>					
<b>TAILORING /INTERPRETATION AGREEMENT:</b> (use continuation pages if required)					
<p>AMS-02 is allowed to meet the requirements of SSP 30237, paragraphs 3.2.1.3.2 (CE07), with the exceedance such that AMS-02 initial turn ON transient exceeds the CE07 envelope by 2.75 V at 28 milliseconds.</p> <p>AMS-02 is allowed to meet the requirements of SSP 30237, paragraphs 3.2.2.1.2 (CS01) and 3.3.2.4.1.2 (RS02) with some glitches in science data received from AMS-02 data acquisition systems at 80 Hz during CS01 and RS02 240 V injection testing.</p>					
<b>RATIONALE:</b> (use continuation pages if required)					
<p>The AMS-02 project team considers effects and exceedances noted during the AMS-02 EMI RS02, CS01, and CE07 testing as minor susceptibility events related to AMS-02 mission success and data collection. The AMS-02 Program accepts the risk of science data loss due to conducted and radiated susceptibility.</p> <p>Any failures resulting from conducted and radiated susceptibility will not cause a safety hazard or interfere with other equipment. The CE07 exceedance will not create an interference problem with equipment on orbit.</p> <p><b>This is criticality 3 hardware. This TIA does not impose any operational constraints. This TIA is for all of the ISS except the Russian segment.</b></p>					
<b>AGREEMENT DISPOSITION</b>					
PRIME EME	NASA EME	DATE	APPROVE	WITHDRAW	REJECT
Bob Armstrong	Matt McCollum	4/5/11	X		
<b>COMMENTS:</b>					
<p>4/5/11 Deferred. Approved pending updates to Severity, Agreement and Rationale sections. 4/5/11 Updated Severity, Agreement and Rationale sections. <b>TIA approved.</b></p>					

# ISS Electromagnetic Effects Panel Tailoring/Interpretation Agreement Continuation Page

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29 March 2011	TIA # 1200	a	STS-134 / ULF6	
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**ISSUE DESCRIPTION Continued:**



**Figure 1 – Conducted Emission Inrush / Mode Change Voltage Transients.**

# ISS Electromagnetic Effects Panel Tailoring/Interpretation Agreement Technical Concurrence

<b>SUBMITTAL DATE</b>	<b>AGREEMENT NO.</b>	<b>REV.</b>	<b>FLIGHT #(s)</b>	<b>Page 3 of 3</b>
29 March 2011	TIA # 1200	a	STS-134 / ULF6	
<b>SYSTEM</b>	<b>ORIGINATOR and PHONE NO.</b>		<b>ORGANIZATION / CONTRACTOR</b>	
AMS-02	Duong Nguyen (281) 486-6311		EA / Jacobs	

## MEMBERS

<b>NAME</b>	<b>DATE</b>	<b>ORGANIZATION</b>
_____		Space Station Office, KSC
_____		Payloads Office, ISSP
_____		Engineering Directorate, JSC
_____		Safety and Mission Assurance/Program Risk Office, ISSP
_____		NASA Frequency Management Office
_____		Boeing Development Site – Huntsville
_____		Electrical Power Systems

## AD HOC MEMBERS

_____		Space Shuttle Program
_____		Operations Office, ISSP
_____		Boeing – Houston
_____		Subsystem or Tech. Discipline Area Requirement Owner, NASA ISSP
_____		Subsystem or Tech. Discipline Area Requirement Owner, Boeing ISSP
_____		Manager, ISSP Element
_____		Launch Package/Stage Manager
_____		Mission Operations Directorate, JSC
_____		International Partner Representative(s)
_____		