

**ACIS Verification Summary Report**

<b>Specification:</b>	ACIS Contract End Item Specification
<b>Requirement Number/Title:</b>	3.3.3.1.1.1 Harnesses (VRSD 3.3.3.1.1.1-1)
<b>Requirement Statement:</b> Wiring installation shall consist of cable harnesses where required. Electrical wiring harness assemblies shall be in accordance with NHB 5300.4(3G) and MSFC letter EH02 (89-0782).	
<b>Verification Method:</b>	Inspection and Validation of Records
<b>Procedure Number:</b>	
<b>Configuration:</b>	
<b>Cycle Time:</b>	
<b>Verification Discussion/Results:</b>	
<p>MIT Fabricated cable harnesses per NHB5300.4(3G). After fabrication, the cable harnesses were tested for continuity, insulation resistance (IR), and dielectric withstanding voltage (DWV). MIT performed IR and DWV at 100Vdc. MSFC retested all external cable harnesses at 500Vdc and 1500Vdc respectively.</p> <p>Lockheed Martin Astronautics (LMA) fabricated cable harnesses per LMA in-house procedures which were approved by MSFC (see MIT waiver request 36-004).. After fabrication, the cable harnesses were tested for continuity, insulation resistance (IR), and dielectric withstanding voltage (DWV). LMA performed IR and DWV at 200Vdc. MSFC retested all external cable harnesses at 500Vdc and 1500Vdc respectively.</p> <p>The high voltage IR and DWV testing exceeds the 600 volt rating of the wire and MIT has submitted waiver request 36-016 for approval to use overstressed wire. This waiver request is an open item.</p>	

*Brian Klatt*  
ACIS Cognizant Engineer

*5/13/97*  
Date