PAYLOAD HAZARD REPORT		a. NO: GHR-AMS02-017
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE		c. PHASE: III
d. SUBSYSTEM: Tools	e. HAZARD GROUP: Human Factors	f. DATE: August 2010
g. HAZARD TITLE: Injury/Damage from Hand Tools or Loose Hardware		i. HAZARD CATEGORY ☒ CATASTROPHIC ☐ CRITICAL

h. APPLICABLE SAFETY REQUIREMENTS:

KHB 1700.7C, Section 4.1.6.; KHB 5310.1, General Operating Procedure 5-3.

j. DESCRIPTION OF HAZARD:

Personnel injury or hardware damage due to unsecured or unaccounted for hand tools or loose hardware.

k. HAZARD CAUSES:

1. Unsecured tools used above personnel or sensitive equipment.
2. Unaccounted for tools left in flight hardware, GSE, or payload bay.
3. Unaccounted for parts/components.
4. ~~Tip over of GSE racks.~~ [illegible]
5

l. HAZARD CONTROLS:

(See continuation sheet)

m. SAFETY VERIFICATION METHODS:

(See continuation sheet)

n. STATUS OF VERIFICATION:

(See continuation sheet)

o. APPROVAL	PAYLOAD ORGANIZATION	SSP/ISS
PHASE I		
PHASE II		
PHASE DIII	TREVOR MARTIN 8/16/10	8/20/10

JSC Form 542B (Rev November 22, 1999) (MS Word September 1997)

PAYLOAD HAZARD REPORT CONTINUATION SHEET	a. NO: GHR-AMS02-017
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE	c. Phase III

k. HAZARD CAUSES:

1. Unsecured tools used above personnel or sensitive equipment.

l. HAZARD CONTROLS:

1.1 Temporary restraints will be used to preclude tools from falling on personnel or critical hardware.

1.2 COPVs will be protected against tool damage during ground operations.

1.3 Only secured tools will be used in proximity of COPV's when protective shielding is not in place.

1.4 Personnel will be trained to secure tools when they are being used above people or equipment.

m. SAFETY VERIFICATION METHODS:

1.1.1 Review of tool control plan to ensure it includes the use of temporary restraints.

1.2.1 Review of COPV plan to ensure adequate protection of the COPVs.

1.3.1 Review of tool control plan to ensure personnel are directed to use only secured tools.

1.4.1 Verification of training of personnel in proper use of tools.

n. STATUS OF VERIFICATION:

1.1.1 Closed to SVTL.
1.2.1 Closed 04/29/09. ESCG-4390-09-SP-MEMO-0002 , *AMS-02 COPV Damage Control Plan*, dated 01/26/09.
1.3.1 Closed to SVTL.
1.4.1 Closed to SVTL.

PAYLOAD HAZARD REPORT CONTINUATION SHEET	a. NO: GHR-AMS02-017
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE	c. Phase III

k. HAZARD CAUSES:

2. Unaccounted for tools left in flight hardware, GSE, or payload bay.

l. HAZARD CONTROLS:

2.1 Personnel training in AMS-02 tool control plan.

m. SAFETY VERIFICATION METHODS:

2.1.1 Verification of training in the tool control plan.

n. STATUS OF VERIFICATION:

2.1.1 Closed to SVTL.

PAYLOAD HAZARD REPORT CONTINUATION SHEET	a. NO: GHR-AMS02-017
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE	c. Phase III

k. HAZARD CAUSES:

3. Unaccounted for parts/components.

l. HAZARD CONTROLS:

3.1 Personnel training to account for parts/components.

m. SAFETY VERIFICATION METHODS:

3.1.1 Verification of training to account for parts/components.

n. STATUS OF VERIFICATION:

3.1.1 Closed to SVTL