

<b>PAYLOAD HAZARD REPORT</b>		a. NO: GHR-AMS02-007
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE		c. PHASE: III
d. SUBSYSTEM: CGSE, TRD, Warm He System, Associated Flight Hardware	e. HAZARD GROUP: Injury, Illness	f. DATE: August 2010
g. HAZARD TITLE:  Loss of breathable atmosphere in KSC facilities.		i. HAZARD CATEGORY <input checked="" type="checkbox"/> CATASTROPHIC <input type="checkbox"/> CRITICAL
h. APPLICABLE SAFETY REQUIREMENTS:  KHB 1700.7, Section 4.3.3.1.3.j, 4.4.2 Hazardous Atmosphere.		
j. DESCRIPTION OF HAZARD:  Non-breathable gas leaks cause asphyxiation during ground support operations.		
k. HAZARD CAUSES: 1. Leakage/Release of oxygen displacing gases. 2. Prolonged close proximity to a gas release location causes personnel to suffer from reduced oxygen availability (deprivation).		
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	<i>Trent Martin</i> 8/6/10	<i>[Signature]</i> 8/25/10

<b>PAYLOAD HAZARD REPORT CONTINUATION SHEET</b>	a. NO: GHR-AMS02-007
b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE	c. PHASE III
k. HAZARD CAUSES: 1. Leakage/Release of oxygen displacing gases.	
l. HAZARD CONTROLS: 1.1 Accumulation of oxygen displacing gases within all rooms and facilities where AMS-02 Flight and Ground sources of gases will be precluded by providing adequate ventilation to account for all nominally vented/unvented gas evolution or inadvertent release. 1.3 Personnel will be trained regarding evacuation procedures for the event of an alarm warning.	
m. SAFETY VERIFICATION METHODS: 1.1.1 Oxygen displacement/accumulation analyses for Xenon, Carbon Dioxide, Nitrogen release into each KSC location for GSE and flight hardware to assure that a >19.5% oxygen concentration will be maintained or that sources that will not maintain that level are identified for venting/additional control. 1.3.1 Certification of personnel training on evacuation procedures.	
n. STATUS OF VERIFICATION: 1.1.1 Closed to SVTL. 1.3.1 Closed to SVTL.	

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b. PAYLOAD: Alpha Magnetic Spectrometer-02 (AMS-02) GSE	c. Phase III
k. HAZARD CAUSES: 2. Prolonged close proximity to a gas release location causes personnel to suffer from reduced oxygen availability (deprivation).	
l. HAZARD CONTROLS: 2.1 Nominal operations will not require proximity to uncontrolled evolution of oxygen displacing gases. 2.2 Labels will be provided which clearly indicate vent, relief, or other sources of oxygen displacing gases to warn personnel.	
m. SAFETY VERIFICATION METHODS: 2.1.1 Operational procedures analysis will ensure that work locations avoid potential oxygen depletion zones or streams. 2.2.1 QA inspection of warning labels to verify that they are appropriately sized and located.	
n. STATUS OF VERIFICATION: 2.1.1 Closed to SVTL. 2.2.1 Closed to SVTL.	