

PAYLOAD FLIGHT HAZARD REPORT		a. NO:	AMS-02-F19
b. PAYLOAD	Alpha Magnetic Spectrometer-02 (AMS-02)		c. PHASE: II
d. SUBSYSTEM:	Thermal Control	e. HAZARD GROUP:	Operations, Injury/Illness
		f. DATE:	May 22, 2006
g. HAZARD TITLE:	Excessive Glare		i. HAZARD CATEGORY: CATASTROPHIC CRITICAL X
h. APPLICABLE SAFETY REQUIREMENTS:	NSTS 1700.7B and ISS Addendum 200.1a		
j. DESCRIPTION OF HAZARD:	<p>The AMS-02 surfaces, in order to maintain appropriate thermal profiles, utilize highly reflective silvered Teflon tape to reduce the radiative heating of AMS-02 structures. These surfaces include the Vacuum Case and USS-02 components.</p> <p>The highly reflective thermal control surfaces (Silver Teflon) of the AMS-02 may reflect sunlight in a manner that affects crew visibility of critical tasks. This reflected light may require alterations in procedure for use of glare control devices (CRITICAL HAZARD). Reflected light may alter planned ISS thermal profiles, EVA Operational Configurations/timing, camera observation capability, and planned timing of specific operations.</p> <p>The AMS-02 does not utilize any high intensity, incoherent light sources in its design.</p>		
k. CAUSES (list)	1. Highly Reflective Surfaces of AMS-02		
	o. APPROVAL	PAYLOAD ORGANIZATION	SSP/ISS
	PHASE I		
	PHASE II		
	PHASE III		

Hazard Report
Withdrawn