



SPACE SHUTTLE PROGRAM
Flight Software Office
NASA Johnson Space Center, Houston, Texas



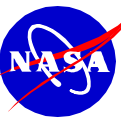
Flight Software Office (FSO) STS-134 In-Flight Anomaly Review SR 4933

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STS-134 FSW Issues Overview

Presenter **D. RUTISHAUSER**

Date **6/16/2011**

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Tracking #	Description	IFA?	IIFA?
STS-134-S-001, (MER-09, AR-5363)	K-band File Transfer (KFX) PGSC Hard Drive Failure	Y	N
AR-5373	STS-134 Shuttle Color Printer Behavior	TBD	N



FSO STS-134 IFA Review Discussion

Presenter **D. RUTISHAUSER**

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- **STS-134-S-001, (MER-09, AR-5363), K-band File Transfer (KFX) PGSC Hard Drive Failure**
 - During FD8, the KFX machine (STS3) dropped off the network. After an unsuccessful reboot and hard drive failure message, the crew replaced the KFX PGSC with the AMS PGSC (STS8). Impact was troubleshooting time and the crew temporarily lost access to their old personal Outlook folders and any messages after the last mail sync with the ground. These files have been recovered.
 - **IFA?** – Yes
 - **IIFA?** – No, does not impact integrated hazards or multiple elements per NSTS 08126
 - **Post flight activities** – Hard drive testing to reproduce/confirm failure and removal of failed hard drive from flight inventory. Standard process of pre-flight, post installation acceptance testing and SAIL testing will continue for PGSC assets on remaining missions.



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- **AR-5373, STS-134 Shuttle Color Printer Behavior**

- At various times during the STS-134 flight, the Shuttle color printer exhibited anomalous behavior. Behavior was random characters printed on multiple occasions, and anything colored 'red' in a message printed in yellow. Resulted in a nuisance impact to the crew. Workarounds used to minimize impact.
 - **IFA?** – TBD, Suspected to be a problem with the ink cartridge, and failures on consumables typically are not tracked as IFAs.
 - **IIFA?** – No, does not impact integrated hazards or multiple elements per NSTS 08126
- **Post flight activities** – Post flight testing began at KSC 6/13/11 to isolate failure to cartridge or printer and removal of failed hardware from flight inventory. Standard process of pre-flight, post installation acceptance testing and SAIL testing will continue for PGSC assets on remaining missions.