SSVEO IFA List

Date:02/27/2003

STS - 82, OV - 103, Discovery (22)

Time:04:03:PM

Tracking No	Time	Classification	Documentation		Subsystem
MER - 10	**MET:** 02:21:05	Problem	**FIAR**	**IFA** STS-82-V-01	ECLSS
EECOM-02	**GMT:** 045:06:00		**SPR**	**UA**	**Manager:** Nanette Cerna
			IPR 85V-0003	**PR**	x39045
					Engineer: Charlie Dumis
					x45120

Title: FES Feedline A Accumulator Temperature Trending Low (ORB)

Summary: At approximately 045:06:00 G.m.t. (02:21:05 MET), the FES feedline A accumulator temperature began trending low. Prior to that time the temperature had been cycling between 60 and 75 ?F as the accumulator heater cycled on and off. The last indication of a heater cycle on system 1 was at 044:22:57 G.m.t. (02:14:02 MET). After the last heater system 1 cycle, the accumulator temperature remained above 45 ?F. The plan was to take no action unless the accumulator temperature dropped below 40 ?F. The nominal heater reconfiguration was performed at 047:02:37 G.m.t. (04:17:42 MET). Heater system 2 is functioning nominally.

Hamilton-Standard completed troubleshooting and removed accumulator. New heater was installed.

Tracking No	Time	Classification	Documentation		Subsystem
MER - 12	**MET:** 06:18:42	Problem	**FIAR**	**IFA** STS-82-V-02	D&C
EGIL-02	**GMT:** 049:03:37		**SPR**	**UA**	**Manager:** Luis Vazquez
			IPR 85V-0006	**PR**	x37478
					Engineer: Andy Farkas

Title: Aft Starboard Payload Bay Floodlight Failed (ORB)

Summary: At 049:03:37 G.m.t. (06:18:42 MET), a mid MNA current (V76C3085A) signature was observed which was indicative of a floodlight failing and tripping the 10 amp RPC in MPC 1. The crew confirmed that the aft starboard floodlight had failed. The floodlight power switch was taken to off, and will remain off for the remainder of the mission.

The characteristic arcing indication in the current data for a failed floodlight was not present during this failure. The current ramped up slightly, from 16.5 to 17.6 amps over 0.7 seconds, then spiked to 24 amps and remaining at that value for 2.3 seconds, and finally dropped to 10 amps (total spike of 13.6 amps). Analysis of available data indicate that the most probable cause of the current spike is a failure in floodlight electronics assembly (FEA) 1. KSC troubleshooting determined that floodlight electronics assembly (FEA) #1 has an internal short. Plan is to R&D FEA. There is a spare available on site. The IPR was upgraded to PR.