

PFR-Probe Lifting Outrigger Interference				Title:
Assembly : Probe Lifting GSE		SubAssembly : Outrigger		
Component : Outrigger Body			Units Affected:	Units fixed:
Originator: Paul Turin		1 2	X X	
Organization: SSL			Date:3/05/2006	
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Failure Occur	red During (Check one	e √)		
\Box Functional test \Box Qualification test X S/C Integration \Box Launch operations \Box Other (Flight Assy)				
Environment when failure occurred:				
□ Ambient	\Box Vibration	E	□ Shock	□ Acoustic
□ Thermal	Vacuum	Γ	□ Thermal-Vacuum	□ EMI/EMC
Problem Description				
During a fit abook	it was discovered that the lift	ting out	riggers interfore with t	ha Magnatamatar Daam

During a fit check it was discovered that the lifting outriggers interfere with the Magnetometer Boom mounting feet.

Analyses Performed to Determine Cause

The outriggers were designed to work with an early foot design, but the feet were enlarged during boom development, and apparently the ICD change was not brought to the GSE designer. The result is that the feet and their shims now protrude into the space required by the outriggers.

Corrective Action/ Resolution

The outrigger mechanical drawings were obtained and SW models built to determine the extent of the interference. The amount of material that needed to be removed from the outriggers to clear the feet was determined, and an FEA was performed to show that this would not result in an increase in the maximum stress. Both sets of outriggers have been modified.

Acceptance: MAM: Ron Jackson_____; MSE: Ellen Taylor_____

PM: Peter Harvey_____; Cognizant Engineer_____

Date of Closure_____