This was derived from TM251 AMove Probe from FIST Ops to Clean Room≅

GRAVITY PROBE-B OPERATIONS ORDER FOR SCIENCE MISSION DEWAR

PROBE TRANSPORT TO FIST OPS

July 13, 1999

^{Originator} D. Murray Approvals:	•		
	Date		Date
Mike Taber Test Director		Dave Murray Test Director	
			Date
Dorrene Ross GP-B Quality Assurance		John Janicki GP-B System Safety	
Sasha Buchman GP-B Hardware Manager			

A SCOPE

This module effects the moving of Probe-C, mounted on the Gurney, from the HEPL GP-B clean room to the FIST Ops area.

B GENERAL REQUIREMENTS

B.1 None.

C CONFIGURATION REQUIREMENTS

C.1 Probe-C is secured in Gurney and double bagged inside the HEPL GP-B clean room.

D HARDWARE REQUIRED

- D.1 Hardware installed/used:
 - a) Probe-C mounted on the Gurney and bagged.
 - b) Recording accelerometer (Impactograph or equivalent)
 - c) Fork lift
 - d) Worm Gear Assembly
 - e) Large C-clamps (4)
- D.2 Hardware removed:
 - a) None.

E PERSONNEL:

Personnel qualified to perform the various functions in this procedure are:

Test Director: Mike Taber

Dave Murray

Fork lift Operator: J. Perales

P. Cruz

Technicians: T. Welsh

K. Bower C. Gray C. Warren

RSE J. Janicki

M. Jeung-Wesoloski

RQE D. Ross

R. Leese

ONR E. Igraham

NOTE: The ONR, RQE and RSE shall be notified 24 hours prior to beginning this procedure.

F Redline Authority:

Redlining of this procedure can be done by M. Taber or D. Murray and shall be approved by the RQE representative. Additional approval by Hardware Manager shall be required if, in the judjement of the Test Director or RQE representative, experiment functionality may be affected.

G OPERATIONS

1 Prepare to move Probe:

1.1	This procedure requires one Test Director, one qualified fork lift operator and two technicians
	and the program Safety Engineer (RSE). The qualified personnel are listed in the front of this
	procedure.

1.2 The Test Director is in charge of controlling and executing all steps of this procedu	ure;
---	------

Record Test Director:

- 1.3 Verify ONR, RSE and RQE have been notified of move (24 hours prior). Date/Time:
- 1.4 Verify Probe-C is installed on the Gurney in the HEPL GP-B clean room and is securely fastened to the Gurney and the yoke worm gear is locked in place.
- 1.5 Install/verify installed an recording accelerometer (Impactograph or equivalent) on the Gurney frame with one of the two sensing directions in the vertical and the other crosswise of the frame.

Record: Vertical sensing	axis
Record: Cross axis sensing	axis

- 1.6 Install/verify installed a double wrap of clean room plastic over the Probe.
- 1.7 Verify Fork Lift is available for use.
- 1.8 Clear all equipment from the End Station I lower floor area between the FIST roll up door and the outside roll up door.
- 1.9 Clear all equipment form around the Weld Shop rollup door.

2 Moving Probe:

CAUTION

In the following take care to not jar the Probe when rolling the Gurney across the floor or when moving the Gurney/Probe with the fork lift as damage to the Probe could result.

- 2.1 Turn on the Impactograph.
- 2.2 Roll the Gurney with Probe-C out of HEPL GP-B clean room to just outside the Weld Shop rollup door.
- 2.3 Use the fork lift to raise the Gurney and Probe approximately 2-in off the ground.
- 2.4 Secure the Gurney frame to the forklift forks with four C-clamps (use wood blocks for clamping as required).

CAUTION

In the following step use spotters on both ends of Gurney as clearance with door is minimal.

- 2.5 Use the fork lift to raise the Gurney/Probe clear of the pavement and move the hardware to just inside the rollup door at the FIST Ops area (the lower level of End Station I).
- 2.6 Set Gurney on floor and remove C-clamps and back Fork Lift away

3

CAUTION

	Use extreme care in rolling Gurney over rough spots of floor.	
2.7	Roll Gurney into FIST Ops.	
2.8	Turn off Impactograph recording and record:	
	Maximum vertical axis acceleration: g.	
	Maximum cross axis acceleration: g.	
2.9	Remove Impactograph from Gurney.	
Compl	pleted. Com	pleted by:
	Witu	nessed By:
		RSE :
		Date:
		Time:
		RQE: