

W. W. Hansen Experimental Physics Laboratory STANFORD UNIVERSITY STANFORD, CALIFORNIA 94305-4085

Gravity Probe B Relativity Mission

# GRAVITY PROBE-B STANDARD OPERATING PROCEDURE

# **GP-B OUTBOUND SHIPPING INSTRUCTIONS**

## P0880 REV A

October 25, 2001

Prepared By	Checked By
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Approvals:	
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## **GP-B OUTBOUND SHIPPING INSTRUCTIONS**

## **REVISION RECORD**

REVISION	ECO	PAGES	DATE
A	1313	Added to page 2 requirements for ESD	10/25/01
		control. Added to page 2 requirements to	
		used dust caps on connectors. Added to	
		checklist in SPECIAL HANDLING	
		BLOCK, requirement for ESD control.	

#### **OUTBOUND SHIPMENTS**

**Purpose** This procedure describes the system for accomplishing outbound

GP-B shipments.

**Applicability** This procedure applies to all elements of the GP-B Program.

**Responsibilities** Shipment Originator

- Complete shipping request form (DD1149) per the checklist (attachment #1)

- The electronic template can be found on the Relgyro H drive in file folder "Forms", title is

"GPBShipping.MASTER.template".

# NOTE: AT NO TIME WILL FLIGHT HARDWARE BE SHIPPED WITH NON-FLIGHT HARDWARE.

 Determine whether the shipment contains any potentially hazardous Material. If shipment contains hazardous material ensure all proper certifications and shipping instructions are completed.

> Definition of a potential hazardous material: Articles or substances that are capable of posing a significant risk to health, safety, environment or to property.

- Identify any special protection requirements (i.e. handling shock, corrosion, ESD, cleanliness)
- Ensure all required protective caps are installed on connectors. (ESD, and Dust caps)

## **Shipping**

- Verify the completeness of all shipping documentation.
   Assemble shipping documents and information into a package.
- Stage items with the shipping documents folder and present to Quality shipping representative for shipping inspection, verification, and approval prior to packaging.

## **Quality**

- Inspect items to be shipped and ensure all items are properly packaged and accounted for on the shipping document.
- Verify all required certifications are available (if required).
- Inspect packaging and sign/approve the shipping documentation.

### **Shipping**

- Complete packaging and deliver the shipment to the carrier.

NOTE: All hand carried shipments must be processed through shipping prior to departure from the GP-B program. Shipping processes the ship request form in the same manner as an item shipped under normal circumstances. The person hand-carrying the item is assigned as the carrier.

- The original copy of the shipper will be maintained by the Receiving an Shipping oraganization.

## ATTACHMENT #1

### SHIPPING DOCUMENT CHECKLIST

ATTACHMENT #1	SIII I ING DOCUMENT CHECKEIST		
BLOCK TITLE	ENTRY	REMARKS	COMPLETED
N/A	Note: At no time will whiteout be used or will entries be		
1 1/1 1	erased. If a mistake is made on this form, line through		
	the incorrect entry, initial the error, and reenter the		
	correct information. All of the titled blocks listed on this		
	checklist must have an entry. If block will not be used,		
	enter N/A.		
N/A	Note: Only the Blocks identified on this checklist will be		
	completed. All other blocks will be marked		
	N/A.		
FROM	Gravity Probe-B		
TKOW			
	GMA Group		
	Stanford University		
	Stanford, CA 94305		
FROM/FLIGHT	Enter GP-B address. If flight parts are being shipped this	Do not ship flight parts and	
PARTS	block will be checked.	non-flight parts on the same	
		shipping document.	
TO	Enter address to where shipment is to be delivered.	simpping document.	
SHIP TO MARK	Enter address to where shipment is to be delivered (phone		
FOR	number if available) and enter the exact individual or		
	location the shipment is to be delivered to.		
SHEET NUMBER	Enter number of sheet.		
NUMBER OF	Enter number of sheets involved in the shipment		
SHEETS	Enter number of sheets involved in the simplification		
	If a social time and an data	TC 41: : :	
REQUISITION	If requisition, enter date.	If this is not a requisition enter	
DATE		N/A	
DATE	Enter the date the shipment is required at the receiving		
MATERIAL	location.		
REQUIRED			
AUTHORITY OR	Enter the purpose of the component being shipped.	If no authority is required	
PURPOSE	i.e., "For installation on Space Vehicle"	leave this block blank.	
SIGNATURE	Individual authorizing the shipment should sign this block.	Quality will sign this block if	
SIGNATURE	individual authorizing the shipment should sign this block.		
		Flight Hardware is shipped.	
Stanford Voucher	Enter the voucher number for this shipment.	The receiving area is	
Number	·	responsible for obtaining	
		this number. This block	
		does not have to be	
		completed for parts to be	
		shipped.	
TRAVEL SHEET	Travel Sheet Number will be the number of the travel		
NUMBER	document accompanying the shipment. (i.e. GPB #105)		
DATE SHIPPED	Enter the exact date the item was shipped.	This block should be	
	11	completed just prior to	
		shipment.	
MODE OF	Enter the exact mode of shipment. (How shipped)	Simplificity	
	Enter the exact mode of shipment. (now shipped)		
SHIPMENT			
Bill of Lading	Enter Bill of Lading Number if appropriate. If not used enter	This block to be completed	
Number	N/A	by Receiving, but is not	
		required for shipment.	
ITEM NUMBER	Item number – enter one for the first item to be shipped.	•	
Ziii I . O III DER	and the first tent to be simpled.		
			<u> </u>

BLOCK TITLE	ENTRY	REMARKS	COMPLETED
FEDERAL	Enter Federal Stock Number (SU Part Number) and a	Ensure that each item	
STOCK NUMBER	Description of the article being shipped. If the material has a	number has a complete	
	code or other services are required enter the requirement (i.e.	description.	
	refrigeration). Enter the S/N of the item being shipped.	(Be thorough, if required list color, length, etc.)	
UNIT OF ISSUED	Enter the unit of issue, (i.e., ea, box, package)		
QUANITY	Enter the quality requested.		
REQUESTED			
UNIT PRICE	Enter the value of the unit being shipped.		
TOTAL GOOT			
TOTAL COST	Enter the value of all units being shipped		
BONDED	If unit to be shipped from Bonded storage the individual		
STORES	issuing the unit will sign. GP-B Quality will sign after		
GPB QA	reviewing the packing and the completion of this form.		
SPECIAL	Enter all special handling instructions. This will include all	If shipment is ESD	
HANDLING	information involved in shipping hazardous material.(i.e certifications).	controlled enter "ESD	
SHEET TOTAL	Enter total value of items on the sheet.	handling required"	
SHEET TOTAL	Lines total value of items on the succe.		
GRAND TOTAL	Enter total value of all items shipped on all sheets.		
RECEIPT	This block will be completed by the receiving organization.		
	When possible a copy of the signed receipt will be obtained		
	and returned to the GP-B Receiving and Shipping organization.		

## Attachment #1

SHIPP	PING CONTAINER TALLY1 2 3 4 5 6 7	8 9 10 11 12	13 14 15 16 17 18 19 20 21	1 22 23	24 25 26 27	28 29	30 31 3	2 33 34 3	35 36 37	38 39 40 41 42 43	44 45 46 47 48 49 50
REQUISITION AND INVOICE/SHIPPING DOCUMENT						Form Approved OMB No. 0704-0246 Expires Oct 31, 1997					
1. FROM	: (include ZIP Code) Gravity Probe B, GMA Group Stanford University				EET NO. OF SHEETS	- 1		08/17/01	l	6. REQUISITION NUMB	BER
	Stanford, CA 94305-4085	Fli	ght Parts		08/17/01	KEQUI	CED (IIIM	DD)		8. FRIORITI	
2. TO: (in	Lockheed Martin			9. A	For install	purpos ation	on the	Space V	ehicle		
	3251 Hanover St., Bldg. 205 Palo Alto, CA 94304			10.	SIGNATURE					11a. STANFORD VOUC	HER NUMBER
3. SHIP TO - MARK FOR				12.	DATE SHIPPED (	YYM M DD ;				CO-289-0001  11b TRAVEL SHEET NUMBER	
Lockheed Martin 3251 Hanover St., Bldg. 205 Palo Alto, CA 94304			13.	13. MODE OF SHIPMENT Hand Carry					GPR #0109  14. BILL OF LADING NUMBER  NA		
	Attention: Tom Welsh			15.	AIR MOVEMEN	Γ DESIG	NATOR OI	R PORT REF	ERENCE NI	UMBER	
4. APPR C	OPRIATIONS SYMBOL AND SUBHEAD	OBJECT CLASS	EXPENDITURE ACCOUNT (From) (To)		CHARGEABL ACTIVITY	Е	BUR A	EAU CONT	ROL ).	BUREAU CONTROL NO.	AMOUNT
ITEM NO (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MAT	ERIAL AND/OR	SERVICES	UNIT OF ISSUE	QUANTITY REQUESTED (d)	AC		YPE CON- TAINER (f)	CON- TAINER NOS. (g)	UNIT PRICE (h)	TOTAL COST
1.	01-P40220E001, TRANSPONDERS s/n 101, 102			e a	2					\$844,000	\$1,688,000
2.	. 25-P34120W002, BAND REJECT FILTERS, s/n 101, 102		ea	2					(see item 1)		
	BONDED STORES: STANFO	RD QA:									
16. TR	ANSPORTATION VIA MATS OR MSTS CHARGEABLE TO				17. SPECIAL F	IANDLI	1G		•		
18. ISSU	JED BY TOTAL CONTAINER CONTAINER TYPE		DESCRIPTION	TOTA W EIG	L TOTAL HT CUBE	19. C	ONTAINE RECEIVE EXCEPT A NOTED	RS DATE (	YYM M D D )	BY	\$1,688,000
CHE	CKED BY						QTY REC EXCEPT A NOTED		YYM M D D )	ВУ	\$1,688,000
PAC	KED BY	4	TOTAL —			P T	POSTED		YYM M D D )	BY	20. RECEIVER'S VOUCHER NO.