

TITLE:	Space Mission and Miscellaneous Vinylcals								
AGENCY:	National Aeronautics and Space Administration								
TERM:	March 1, 2020 ending February 28, 2021								
			DOUGLASS SCREEN PRGTG.		SERIGRAPHIC ARTS, INC.		CURRENT CONTRACTOR		
		BASIS OF	Lakeland, FL		Tampa, FL		Lakeland, FL.		
		AWARD	UNIT RATE	COST	UNIT RATE	COST	UNIT RATE	COST	
ITEM NO.	DESCRIPTION								
1	PREPRESS OPERATIONS:								
(a)	Composition (backing sheet only)								
	per vinylcal-----	24	40.00	960.00	50.00	1,200.00	N/C	0.00	
(b)	PDF Soft Proof-----per vinylcal-----	20	40.00	800.00	25.00	500.00	N/C	0.00	
(c)	Inkjet proofs (face of vinylcal-----per vinylcal	60	75.00	4,500.00	50.00	3,000.00	231.06	13,863.60	
(d)	Inkjet proof/digital one-off proof (backing sheet								
	-----per vinylcal	18	75.00	1,350.00	50.00	900.00	N/C	0.00	
(e)	Prior to Production Samples								
	per vinylcal/per 25 copies-----	112	175.00	19,600.00	50.00	5,600.00	231.06	25,878.72	
II.	PRINTING, CONSTRUCTION, PACKING, AND								
	DISTRIBUTION								
(a)	Printing in four-color process, including								
	construction-----per vinylcal								
-1	Makeready and/or Setup	50	1400.00	70,000.00	1200.00	60,000.00	1,481.94	74,097.00	
-2	Running Per 1,000 Copies	477	75.00	35,775.00	175.00	83,475.00	78.88	37,625.76	
(b)	Printing in a single ink color, including								
	construction -----per vinylcal								
-1	Makeready and/or Setup	29	1300.00	37,700.00	700.00	20,300.00	1,314.62	38,123.98	
-2	Running Per 1,000 Copies	859	60.00	51,540.00	165.00	141,735.00	60.55	52,012.45	
(c)	Printing in an additional color not charged for								
	under line items II.(a) or (b)-----								
	per color/per vinylcal								
-1	Makeready and/or Setup	84	60.00	5,040.00	100.00	8,400.00	55.77	4,684.68	
-2	Running Per 1,000 Copies	2,529	5.80	14,668.20	150.00	379,350.00	5.88	14,870.52	
(d)	Clear ink coating-----per vinylcal								
-1	Makeready and/or Setup	46	60.00	2,760.00	100.00	4,600.00	55.77	2,565.42	
-2	Running Per 1,000 Copies	709	5.80	4,112.20	50.00	35,450.00	5.88	4,168.92	
(e)	Laminating-----per vinylcal								
-1	Makeready and/or Setup	33	25.00	825.00	N/C	0.00	N/C	0.00	
-2	Running Per 1,000 Copies	627	39.00	24,453.00	75.00	47,025.00	36.65	22,979.55	
(f)	Printing on back of backing sheet in black ink								
	per vinylcal								
-1	Makeready and/or Setup	71	60.00	4,260.00	100.00	7,100.00	55.77	3,959.67	
-2	Running Per 1,000 Copies	1,259	8.00	10,072.00	150.00	188,850.00	7.97	10,034.23	
III.	PREMIUM PAYMENTS:								
	When authorized, will apply to all items required								
	to produce the product ordered.								
	Only authorized on requiredd "Accelerated								
	Schedule"								
	Percentage increase-----	20%							
	CONTRACTOR'S SUBTOTAL			288,415.40		987,485.00		304,864.50	
	PREMIUM PAYMENT			57,683.08		197,497.00		60,972.90	
	PERCENTAGE INCREASE		9%	5,191.48	20%	39,499.40	9%	5,487.56	
	SUBTOTAL PLUS PERCENTAGE INCREASE			293,606.88		1,026,984.40		310,352.06	
	DISCOUNT		0.50%	1,468.03	0.50%	5,134.92	0.50%	1,551.76	
	DISCOUNTED TOTALS			292,138.85		1,021,849.48		308,800.30	
				<b>AWARDED</b>					

U.S. GOVERNMENT PUBLISHING OFFICE  
Washington, DC

GENERAL TERMS, CONDITIONS, AND SPECIFICATIONS

For the Procurement of

**Space Mission and Miscellaneous Vinyls**

as requisitioned from the U.S. Government Publishing Office (GPO) by the

National Aeronautics and Space Administration (NASA)

Single Award

**TERM OF CONTRACT:** The term of this contract is for period beginning March 1, 2020 and ending February 28, 2021, plus up to four (4) optional 12-month extension period(s) that may be added in accordance with the “OPTION TO EXTEND THE TERM OF THE CONTRACT” clause in SECTION 1 of this contract.

**BID OPENING:** Bids shall be publicly opened at 11:00 a.m., prevailing Washington, DC time, on February 12, 2020.

**BID SUBMISSION:** Submit bid to: U.S. Government Publishing Office, Bid Section, Room C-848, Stop: CSPA, 732 North Capitol Street, NW, Washington, DC 20401. Facsimile bids in response to this solicitation are permitted. Facsimile bids may be submitted directly to the GPO Bid Section, Fax No. (202) 512-1782. The program number and bid opening date must be specified either on the outside of the bid envelope or on the face of the faxed bid. Refer to Facsimile Bids in Solicitation Provisions of GPO Contract Terms, GPO Publication 310.2, as revised January 2018. Hand delivered bids are to be taken to: GPO Bookstore, 710 North Capitol Street, NW, Washington, DC, between the hours of 8:00 a.m. and 4:00 p.m., prevailing Washington, DC time, Monday through Friday. Contractor is to follow the instructions in the bid submission/opening area. If further instruction or assistance is required, call (202) 512-0526.

The GPO 910 “BID” Form is no longer required. Bidders are to fill out, sign/initial, as applicable, all pages of “SECTION 4. – SCHEDULE OF PRICES.”

**BIDDERS, PLEASE NOTE:** These specifications have been extensively revised; therefore, all bidders are cautioned to familiarize themselves with all provisions of these specifications before bidding. Special attention is directed to the following items which differ significantly from the previous contract:

TERM OF CONTRACT (*specified on page 1 of 19*)

QUALITY ASSURANCE LEVELS AND STANDARDS (*specified on page 2 of 19*)

SECTION 3. – DETERMINATION OF AWARD (*specified on page 15 of 19*)

SECTION 4. – SCHEDULE OF PRICES, ITEM I. PREPRESS OPERATIONS (*specified on page 17 of 19*)

Abstracts of contract prices are available at <https://www.gpo.gov/how-to-work-with-us/vendors/contract-pricing>.

For information of a technical nature, contact APS DC at [apsdc@gpo.gov](mailto:apsdc@gpo.gov) or (202) 512-0307.

## SECTION 1. – GENERAL TERMS AND CONDITIONS

**GPO CONTRACT TERMS:** Any contract which results from this Invitation for Bid will be subject to the applicable provisions, clauses, and supplemental specifications of GPO Contract Terms (GPO Publication 310.2, effective December 1, 1987 (Rev. 01-18)) and GPO Contract Terms, Quality Assurance through Attributes Program for Printing and Binding (GPO Publication 310.1, effective May 1979 (Rev. 09-19)).

GPO Contract Terms (GPO Publication 310.2) – <https://www.gpo.gov/docs/default-source/forms-and-standards-files-for-vendors/contractterms2018.pdf>.

GPO QATAP (GPO Publication 310.1) – <https://www.gpo.gov/docs/default-source/forms-and-standards-files-for-vendors/qatap-rev-09-19.pdf>.

**QUALITY ASSURANCE LEVELS AND STANDARDS:** The following levels and standards shall apply to these specifications:

Product Quality Levels:

- (a) Printing (page related) Attributes –
  - Face of Vinylcal – Level II
  - Backing Sheet – Level III
- (b) Finishing (item related) Attributes – Level II.

Inspection Levels (from ANSI/ASQC Z1.4):

- (a) Non-destructive Tests – General Inspection Level I.
- (b) Destructive Tests – Special Inspection Level S-2.

Specified Standards: The specified standards for the attributes requiring them shall be:

<u>Attribute</u>	<u>Specified Standard</u>
P-7. Type Quality and Uniformity	O.K. Prior to Production Samples/O.K. Proofs/ Electronic Media
P-9. Solid and Screen Tint Color Match	Pantone Matching System
P-10. Process Color Match	O.K. Prior to Production Samples/O.K. Proofs/ Electronic Media

Prior to award, contractor may be required to provide information related to specific equipment that will be used for production.

**OPTION TO EXTEND THE TERM OF THE CONTRACT:** The Government has the option to extend the term of this contract for a period of 12 months by written notice to the contractor not later than 30 days before the contract expires. If the Government exercises this option, the extended contract shall be considered to include this clause, except, the total duration of the contract may not exceed five (5) years as a result of, and including, any extension(s) added under this clause. Further extension may be negotiated under the “EXTENSION OF CONTRACT TERM” clause. See also “ECONOMIC PRICE ADJUSTMENT” for authorized pricing adjustment(s).

**EXTENSION OF CONTRACT TERM:** At the request of the Government, the term of any contract resulting from this solicitation may be extended for such period of time as may be mutually agreeable to the GPO and the contractor.

**ECONOMIC PRICE ADJUSTMENT:** The pricing under this contract shall be adjusted in accordance with this clause, provided that in no event will any pricing adjustment be made that would exceed the maximum permissible under any law in effect at the time of the adjustment. There will be no adjustment for orders placed during the first period specified below. Pricing will thereafter be eligible for adjustment during the second and any succeeding performance period(s). For each performance period after the first, a percentage figure will be calculated as described below and that figure will be the economic price adjustment for that entire next period. Pricing adjustments under this clause are not applicable to reimbursable postage or transportation costs, or to paper, if paper prices are subject to adjustment by separate clause elsewhere in this contract.

For the purpose of this clause, performance under this contract will be divided into successive periods. The first period will extend from March 1, 2020 to February 28, 2021, and the second and any succeeding period(s) will extend for 12 months from the end of the last preceding period, except that the length of the final period may vary. The first day of the second and any succeeding period(s) will be the effective date of the economic price adjustment for that period.

Pricing adjustments in accordance with this clause will be based on changes in the seasonally adjusted "Consumer Price Index For All Urban Consumers - Commodities Less Food" (Index) published monthly in the CPI Detailed Report by the U.S. Department of Labor, Bureau of Labor Statistics.

The economic price adjustment will be the percentage difference between Index averages as specified in this paragraph. An index called the variable index will be calculated by averaging the monthly Indexes from the 12-month interval ending 3 months prior to the beginning of the period being considered for adjustment. This average is then compared to the average of the monthly Indexes for the 12-month interval ending November 30, 2019, called the base index. The percentage change (plus or minus) of the variable index from the base index will be the economic price adjustment for the period being considered for adjustment.

The Government will notify the contractor by contract modification specifying the percentage increase or decrease to be applied to invoices for orders placed during the period indicated. The contractor shall apply the percentage increase or decrease against the total price of the invoice less reimbursable postage or transportation costs and separately adjusted paper prices. Payment discounts shall be applied after the invoice price is adjusted.

**PREAWARD SURVEY:** In order to determine the responsibility of the prime contractor or any subcontractor, the Government reserves the right to conduct an on-site preaward survey at the contractor's/subcontractor's facility or to require other evidence of technical, production, managerial, financial, and similar abilities to perform, prior to the award of a contract. As part of the financial determination, the contractor in line for award may be required to provide one or more of the following financial documents:

- 1) Most recent profit and loss statement
- 2) Most recent balance sheet
- 3) Statement of cash flows
- 4) Current official bank statement
- 5) Current lines of credit (with amounts available)
- 6) Letter of commitment from paper supplier(s)
- 7) Letter of commitment from any subcontractor

The documents will be reviewed to validate that adequate financial resources are available to perform the contract requirements. Documents submitted will be kept confidential, and used only for the determination of responsibility by the Government. Failure to provide the requested information in the time specified by the Government may result in the Contracting Officer not having adequate information to reach an affirmative determination of responsibility.

**ASSIGNMENT OF JACKETS, PURCHASE AND PRINT ORDERS:** A GPO jacket number will be assigned and a purchase order issued to the contractor to cover work performed. The purchase order will be supplemented by an individual print order for each job placed with the contractor. The print order, when issued, will indicate the quantity to be produced and any other information pertinent to the particular order.

**ORDERING:** Items to be furnished under the contract shall be ordered by the issuance of print orders by the Government. Orders may be issued under the contract from March 1, 2020 through February 28, 2021 plus for such additional period(s) as the contract is extended. All print orders issued hereunder are subject to the terms and conditions of the contract. The contract shall control in the event of conflict with any print order. A print order shall be "issued" upon notification by the Government for purposes of the contract when it is electronically transmitted or otherwise physically furnished to the contractor in conformance with the schedule.

**REQUIREMENTS:** This is a requirements contract for the items and for the period specified herein. Shipment/delivery of items or performance of work shall be made only as authorized by orders issued in accordance with the clause entitled "ORDERING." The quantities of items specified herein are estimates only, and are not purchased hereby. Except as may be otherwise provided in this contract, if the Government's requirements for the items set forth herein do not result in orders in the amounts or quantities described as "estimated", it shall not constitute the basis for an equitable price adjustment under this contract.

Except as otherwise provided in this contract, the Government shall order from the contractor all the items set forth which are required to be purchased by the Government activity identified on page 1.

The Government shall not be required to purchase from the contractor, requirements in excess of the limit on total orders under this contract, if any.

Orders issued during the effective period of this contract and not completed within that time shall be completed by the contractor within the time specified in the order, and the rights and obligations of the contractor and the Government respecting those orders shall be governed by the terms of this contract to the same extent as if completed during the effective period of this contract.

If shipment/delivery of any quantity of an item covered by the contract is required by reason of urgency prior to the earliest date that shipment/delivery may be specified under this contract, and if the contractor will not accept an order providing for the accelerated shipment/delivery, the Government may procure this requirement from another source.

The Government may issue orders which provide for shipment/delivery to or performance at multiple destinations.

Subject to any limitations elsewhere in this contract, the contractor shall furnish to the Government all items set forth herein which are called for by print orders issued in accordance with the "ORDERING" clause of this contract.

**ADDITIONAL ORDERS:** After fulfilling the Government's orders, the contractor may print and sell additional vinylcal stickers of any article to a list of NASA vendors at the applicable awarded running rate. These vendors will contact the contractor to place their order within approximately one (1) week of receipt of the print order from NASA.

**NOTE:** *Clause 18. "Reproduction of Printing Prohibited" under Contract Clauses in GPO Contract Terms (GPO Publication 310.2, effective December 1, 1987, Rev. 01-18) is hereby waived for the term of this contract ONLY for this list of NASA vendors, which will be supplied to the contractor immediately after award of this contract. These private sales can have no adverse effect on the Government's orders, and the Government bears no responsibility for these orders.*

**PAYMENT:** Submitting invoices for payment via the GPO fax gateway (if no samples are required) utilizing the GPO barcode coversheet program application is the most efficient method of receiving payment. Instruction for using this method can be found at the following web address:

<http://winapps.access.gpo.gov/fms/vouchers/barcode/instructions.html>.

Invoices may also be mailed to: U.S. Government Publishing Office, Office of Financial Management, Attn: Comptroller, Stop: FMCE, Washington, DC 20401.

For more information about the billing process, refer to the General Information of the Office of Finance web page located at: <https://www.gpo.gov/how-to-work-with-us/agency/billing-and-payment>.

Contractor's billing invoice must be itemized in accordance with the items in the "SCHEDULE OF PRICES."

## SECTION 2. – SPECIFICATIONS

**SCOPE:** These specifications cover the production of pressure-sensitive vinyl decal (“vinylcal”) stickers requiring such operations as electronic prepress, composition, printing, coating, laminating, construction, packing, and distribution.

**TITLE:** Space Mission and Miscellaneous Vinylcal.

**FREQUENCY OF ORDERS:** While it is impossible to determine the number or frequency of orders that will be placed, it is anticipated that approximately 20 to 100 orders will be placed per year.

Orders will be issued from the following NASA Centers:

- NASA Headquarters (NASA HQ), Washington, DC
- NASA/Goddard Space Flight Center (NASA/GSFC), Greenbelt, MD
- NASA/Marshall Space Flight Center (NASA/MSFC), Huntsville, AL
- NASA Ames Research Center (NASA/ARC), Moffet Field, CA
- NASA/Johnson Space Center (NASA/JSC), Houston, TX
- NASA/Jet Propulsion Lab (NASA/JPL), Pasadena, CA
- NASA/Glenn Research Center (NASA/GRC), Cleveland, OH
- NASA/Kennedy Space Center (KSC), KSC, FL
- NASA/Langley Research Center (LARC), Hampton, V

**QUANTITY:** Approximately 200 to 330,000 copies per order. Based on past performance, it is anticipated that the majority of the orders will be for less than 15,000 copies. An occasional order may exceed 330,000 copies.

NOTE: More than one type of vinylcal may be ordered on the same print order requiring the same schedule.

**QUANTITY VARIATION ALLOWED:**  $\pm 2$  percent.

**TRIM SIZES:** It is anticipated that the largest shape will be approximately 6 x 6”.

NOTE: Vinylcal will be ordered in irregular shapes. (See Exhibits A through G.)

**GOVERNMENT TO FURNISH:** Electronic Media will be furnished as follows:

Platform: IBM compatible with Windows10; Macintosh System 10.13 (minimum).

Storage Media: CD-ROM; 5-1/4” Optical Media Disk; CD; DVD; FTP (Government-hosted).

Software: Adobe Creative Suite (Creative Cloud), version 6.0 or higher.

NOTE: All media programs may be updated to the latest industry version during the contract term. All software upgrades (for specified applications) which may occur during the term of the contract, must be supported by the contractor.

Fonts: All printer and screen fonts will be furnished/embedded, as applicable.

The contractor is cautioned that furnished fonts are the property of the Government and/or its originator. All furnished fonts are to be eliminated from the contractor's archive immediately after completion of the contract.

**Additional**

**Information:** Files will be furnished in native application and/or PDF formats.  
A visual of the furnished electronic files in the form of a hard copy, laser-generated dummy showing color breaks will be furnished.  
GPO Form 952 (Desktop Publishing - Disk Information).

Identification markings such as register marks, commercial identification marks of any kind, etc., except GPO imprint, form number, and revision date, carried in the electronic files, must not print on finished product.

**EXHIBITS:** Exhibits A through G attached are typical of past products which have been ordered; however, it cannot be guaranteed that future orders will match these exhibit pages in design or size.

**CONTRACTOR TO FURNISH:** All materials and operations, other than those listed under "GOVERNMENT TO FURNISH," necessary to produce the product(s) in accordance with these specifications.

The contractor must be able to accept files electronically via Government-hosted FTP server. Appropriate log-on instructions and protocol will be provided at time of award.

*Cost Estimate:* The contractor will furnish a cost estimate of each print order issued within two (2) workdays of receipt of the print order. The estimate is understood to be an initial cost estimate at the time the print order is issued and will be separate and distinct from the final invoice that may reflect agreed upon and approved modifications by the Government. The cost estimate is to be provided to the specific point of contact for each NASA Center (see "PRIOR TO PRODUCTION SAMPLES" for list of contacts). The contractor will contact the appropriate NASA Center to coordinate the submission of the cost estimate for a print order. The cost estimate may be provided via email.

**ELECTRONIC PREPRESS:** Prior to image processing, the contractor shall perform a basic check (preflight) of the furnished media and publishing files to assure correct output of the required reproduction image. Any errors, media damage, or data corruption that might interfere with proper file image processing must be reported to the ordering agency contact as specified on the print order.

The contractor shall create or alter any necessary bleeds and trapping, set proper screen angles and screen frequency, and define file output selection for the imaging device being utilized. Furnished files must be imaged as necessary to meet the assigned quality level.

When required by the Government, the contractor shall make minor revisions to the electronic files. It is anticipated that the Government will make all major revisions. Prior to making revisions, the contractor shall copy the furnished files and make all changes to the copy.

Upon completion of each order, the contractor must furnish final production native application files (digital deliverables) with the furnished material. The digital deliverables must be an exact representation of the final printed product and shall be returned on the same type of storage media as was originally furnished, unless otherwise specified. The Government will not accept, as digital deliverables, PostScript files, or any proprietary file formats other than those supplied, unless specified by the Government.

**COMPOSITION:** When ordered, the contractor will be required to set a brief description of the vinylcal. This will consist of approximately 10 to 30 typelines per vinylcal, set in a suitable width, on backing sheet only (see Exhibit A). The contractor is required to furnish the following typefaces and sizes:

- Helvetica, 6 through 12 point
- Helvetica Bold, 8 through 14 point
- Cyrillic (Russian), 6 through 12 point
- Cyrillic Bold, 8 through 14 point



No alternate typefaces will be allowed; however, manufacturers' generic equivalents will be accepted for the above typefaces. Each bidder shall list in the bid the name of the generic equivalent typeface(s) and composing machine to be used.

The GPO reserves the right to require samples of any generic equivalent typefaces offered if it is deemed necessary in order to determine the suitability of the offered typefaces.

**PROOFS:**

- When ordered, one (1) press quality PDF soft proof (for content only) using the same Raster Image Processor (RIP) that will be used to produce the final printed product. PDF proof will be evaluated for text flow, image position, and color breaks. Proof will not be used for color match.
- When ordered, one (1) set of inkjet proofs that are G7 profiled and use pigment-based inks. A proofing RIP that provides an option for high quality color matching (such as Device Links Technology and/or ICC Profiles Technology), and meets or exceeds industry tolerance to ISO 12647-7 Standard for Graphic Technology (as of 3/19/09, and future amendments) must be utilized plus GRACoL 2006 Coated #1 specifications (CGATS TR006) must be achieved. Output must be a minimum of 720 x 720 dpi on a GRACoL or SWOP certified proofing media. Proofs must contain the following color control strip to be evaluated for accuracy: IDEAlliance ISO 12647-7 Control Strip 2009 or 2013(i1).

Proofs must contain color control bars (such as Brunner, GATF, GRETAG, or RIT) for each color of ink on the sheet. Control bars must be placed parallel to the press's ink rollers and must show areas consisting of minimum 1/8 x 1/8" solid color patches; tint patches of 25, 50 and 75%; dot gain scale; and gray balance patches for process color (if applicable). These areas must be repeated consecutively across the sheet.

The make and model number of the proofing system utilized shall be furnished with the proofs. These proofs must contain all elements, be in press configuration, and indicate margins. Proofs will be used for color match on press. Direct to plate must be used to produce the final product with a minimum of 2400 x 2400 dpi.

Pantone colors must be simulated on proofs and must be proofed separately on a digital color content, overlay, or inkjet proof.

Contractor to submit ink drawdowns on actual production stock of Pantone color(s) used to produce the product. Half of drawdown must show coating, when ordered.

- When ordered, one (1) digital color one-off proof created using the same output device that will be used to produce the final printed product on the actual production stock. Proofs shall be collated with all elements in proper position (not pasted up), imaged face and back, trimmed, and folded to the finished size of the product. Proof will be used for color match on the press on the production run.

NOTE: When ordered, the one-off proof is only required for the backing sheet and only if the backing sheet is produced via digital printing. If produced via conventional offset printing, when ordered, contractor would furnish inkjet proofs as specified above.

If any contractor's errors are serious enough in the opinion of the GPO to require revised proofs, the revised proofs are to be provided at no expense to the Government. No extra time can be allowed for this reproofing; such operations must be accomplished within the original production schedule allotted in the specifications.

The contractor must not print prior to receipt of an "O.K. to Print."

**PRIOR TO PRODUCTION SAMPLES (When Ordered):** The containers and accompanying documentation shall be marked "PREPRODUCTION SAMPLES" and shall include the GPO jacket, purchase order, and program numbers.

Each sample shall be printed and constructed as specified and must be of the size, kind, and quality that the contractor will furnish. Samples will be inspected and tested and must comply with the specifications as to construction, kind, and quality of materials and quality of printing. All samples must be printed on the paper as specified herein.

*NASA HQ Orders:* Prior to the commencement of production of the contract production quantity, the contractor shall submit 25 samples to each of the following two addresses:

- NASA Headquarters, Attn: Russell Smith and Tun Hla, Code LM022, Suite 4M83, 300 E Street, SW, Washington, DC 20546
- NASA, Johnson Space Flight Center, JB31, Attn: Kathy Padgett, 2101 NASA Parkway, Houston, TX 77058

*For All Other Orders:* Prior to the commencement of production of the contract production quantity, the contractor shall submit 50 samples to one of the following applicable addresses:

- NASA/GSFC Orders: NASA/GSFC, Code 271, Printing Management Office, Building 18, Room 110, Attn: S. Panciera, 8800 Greenbelt Road, Greenbelt, MD 20771. (Telephone: (301) 286-4818)
- NASA/MSFC Orders: NASA/MSFC, Marshall Space Flight Center, IS70, 4207:G34C, Attn: Yolanda Dial, Huntsville, AL 35812.
- NASA/ARC Orders: NASA/ARC, Ames Research Center, Building N220, Room 209A, Attn: Diana Frontella, Moffet Field, CA 94035-1000.
- NASA/JSC Orders: NASA/JSC, Building 227, Door 2, Attn: Kathy Padgett, Houston, TX 77058.
- NASA/JPL Orders: NASA/JPL, JPL Graphics, 4800 Oak Grove Drive, Attn: Sanjoy Moorthy, 111-127, Pasadena, CA 91109-8099. (Telephone: (818) 354-7120)
- NASA/GRC Orders: NASA/GRC, 21000 Brookpark Road, Code CO00, Attn: Natalie Henrich, Building 14, Room 111, Cleveland, OH 44135.
- NASA/KSC Orders: NASA/KSC, Code ITA00, Attn: Christine Bean, M7-0355:1305D, Kennedy Space Center, FL 32899.
- NASA/LARC Orders: NASA/LARC, Building 1190, 101D, Attn: Whitney Gurganus, Mail Stop 405, Hampton, VA 23681-2199.

The samples must be submitted in sufficient time to allow Government testing of the samples and production and shipment in accordance with the shipping schedule.

The Government will approve, conditionally approve, or disapprove the samples (in writing) within four (4) workdays of the receipt thereof. (NOTE: One marked sample will be returned with approval, conditional approval, or disapproval.) Approval or conditional approval shall not relieve the contractor from complying with the specifications and all other terms and conditions of the contract. A conditional approval shall state any further action required by the contractor. A notice of disapproval shall state the reasons therefore.

If the samples are disapproved by the Government due to contractor's errors, the Government at its option may require the contractor to submit additional samples for inspection and test, in the time and under the terms and conditions specified in the notice of rejection. Such additional samples shall be furnished, and necessary changes made, at no additional cost to the Government and with no extension in the shipping schedule. The Government will require the time specified above to inspect and test any additional samples required.

In the event the samples are disapproved by the Government due to the ordering agency's requesting author's alterations/changes, the Government may request the contractor to submit additional samples for inspection and test. Such additional samples shall be furnished, and necessary changes made, for which the contractor will be allowed to charge for these additional samples in accordance with applicable line item in the "SCHEDULE OF PRICES." In addition, the shipping schedule will be subject to negotiation by the Contracting Officer and the contractor.

In the event the additional samples are disapproved by the Government, the contractor shall be deemed to have failed to make delivery within the meaning of the default clause in which event this contract shall be subject to termination for default, provided however, that the failure of the Government to terminate the contract for default in such event shall not relieve the contractor of the responsibility to deliver the contract quantities in accordance with the shipping schedule.

In the event the Government fails to approve, conditionally approve, or disapprove the samples within the time specified, the Contracting Officer shall automatically extend the shipping schedule in accordance with article 12 "Notice of Compliance with Schedules" of contract clauses in GPO Contract Terms (GPO Publication 310.2, effective December 1, 1987 (Rev. 01-18)).

Manufacture of the final product prior to approval of the samples submitted is at the contractor's risk. Samples will not be returned to the contractor. All costs, including the costs of all samples, shall be charged in accordance with the applicable line item in the "SCHEDULE OF PRICES."

All samples shall be manufactured at the facilities and on the equipment in which the contract production quantities are to be manufactured.

**STOCK:** The specifications of all paper furnished must be in accordance with those listed herein or listed for the corresponding JCP Code numbers in the "Government Paper Specification Standards No. 12" dated March 2011.

Government Paper Specification Standards No. 12 – [https://www.gpo.gov/docs/default-source/forms-and-standards-files-for-vendors/vol\\_12.pdf?sfvrsn=2](https://www.gpo.gov/docs/default-source/forms-and-standards-files-for-vendors/vol_12.pdf?sfvrsn=2).

White Opaque Flexible Vinyl, 0.003 to 0.004" thick.

**PRINTING (Screen Process Printing):**

**NOTE:** *All screen process printing must be printed via multi-filament or mono-filament mesh with squeegee.*

*Vinylcal:* Print face in clear, sharp, screen printing in up to 15 fade resistant ink colors. Match Pantone numbers as indicated on the print order. An occasional order may require four-color process.

Printing must have good adherence to the vinyl.

*Backing Sheet:* When ordered, print back of backing sheet in black ink only. At contractor's option, the backing sheet only may be produced via conventional offset or digital printing provided that Quality Level III standards are maintained. Final output must be a minimum of 150 line screen and at a minimum resolution of 1200 x 1200 dpi x 1 bit or 600 x 600 dpi x 4 bit depth technology.

*Fade Resistance:* The inks used must not show any appreciable change in color after exposure in an Atlas Fadeometer for 1,000 standard fading hours (three (3) years), or its equivalent.

*Coating:* When ordered, coat the entire surface of the face, over the printing, with a clear, non-cracking, smooth, and uniformly distributed ink coating.

*Lamination:* When ordered, after printing, laminate the entire surface with a clear gloss polyester (1.5 mil). The laminated product must have no distortion of the printed matter, no yellowing, and must remain clear and legible.

**MARGINS:** Total bleeds are anticipated; however, if margins are required, they will be indicated on the individual print order or furnished electronic file.

**CONSTRUCTION:** Back of vinylcal are to be coated with a permanent-type, pressure-sensitive, water-insoluble adhesive and mounted on a suitable backing sheet. Any easy, effective removal feature will be accepted.

Die-cut vinylcal and backing sheet to shape specified.

**PACKING:** At contractor's option, box, insert into plastic bags, or shrink-film wrap, in units of 100 vinylcal. Pack suitable in shipping containers not exceed 40 pounds when fully packed.

All shipments which fill less than a shipping container must be packaged with materials of sufficient strength and durability and in such a manner which will guarantee that the product will not be damaged and the package will not open nor split during shipment.

**LABELING AND MARKING:** Contractor to download GPO Form 905 (R. 7-15) – Labeling and Marking Specifications which can be located on GPO.gov, fill in appropriate blanks, and attach to shipping containers.

**DEPARTMENTAL RANDOM COPIES (BLUE LABEL):** All orders must be divided into equal sublots in accordance with the chart below. A random copy must be selected from each subplot. Do not choose copies from the same general area in each subplot. The contractor will be required to certify that the copies were selected as directed using GPO Form 917 – Certificate of Selection of Random Copies which can be located on GPO.gov. The random copies constitute a part of the total quantity ordered, and no additional charge will be allowed.

<u>Quantity</u> <u>Ordered</u>	<u>Number of</u> <u>Sublots</u>
500 - 3,200	50
3,201 - 10,000	80
10,001 - 35,000	125
35,001 and over	200

These randomly selected copies must be packed separately and identified by a special label, GPO Form 2678 – Departmental Random Copies (Blue Label), which must be printed on blue paper and affixed to each affected container. This form can be downloaded from GPO.gov. The container and its contents shall be recorded separately on all shipping documents and sent to: NASA Headquarters, Attn: NASA Printing Officer, Mail Code LM021, Printing and Design, Room CL78, 300 E Street, SW, Washington, DC 20546.

A copy of the print order/specification and a signed Certificate of Selection of Random Copies must be included.

A copy of the signed Certificate of Selection of Random Copies must accompany the invoice sent to U.S. Government Publishing Office, Financial Management Service, for payment. Failure to furnish the certificate may result in delay in processing the invoice.

**QUALITY ASSURANCE RANDOM COPIES:** In addition to the Departmental Random Copies (Blue Label), the contractor may be required to submit quality assurance random copies to test for compliance against the specifications. The print order will indicate the number required, if any. When ordered, the contractor must divide the entire order into equal sublots and select a copy from a different general area of each subplot. The contractor will be required to certify that the copies were selected as directed using GPO Form 917 – Certificate of Selection of Random Copies which can be located on GPO.gov. Copies will be paid for at the running rate offered in the contractor’s bid, and their cost will not be a consideration for award. A copy of the print order must be included with the samples.

Business Reply Mail labels will be furnished for mailing the quality assurance random copies. The copies are to be mailed at the same time as the first scheduled shipment. A U.S. Postal Service approved Certificate of Mailing, identified by GPO program, jacket, and print order numbers must be furnished with billing as evidence of mailing.

**DISTRIBUTION:** Ship f.o.b. contractor’s city (reimbursable) to approximately 10 to 25 destinations per order to both domestic (nationwide) and foreign destinations.

Complete addresses and quantities will be furnished with the print orders.

Contractor must ship by reimbursable, traceable means via a small package carrier. On occasion, the ordering agency may request the “Expedited Service” (overnight) of the small package carrier to be utilized. Contractor to be reimbursed for all shipping costs upon submission of complete shipping receipts with billing invoice for payment.

Upon completion of each order, contractor must notify the ordering agency (on the same day the order ships) via email to the address indicated on the print order. The subject line of the email shall be “Distribution Notice for Program 58-S, Print Order XXXXX, Jacket Number XXX-XXX.” The notice must provide all applicable tracking numbers, shipping methods, and title of product. Contractor must be able to provide copies of all shipping receipts upon agency request.

Upon completion of the first order only, contractor to furnish 10 samples of each vinylcal ordered to: U.S. Government Publishing Office, Agency Publishing Services, Attn: Rebecca Swan, Stop CSAPS, Room C838, 732 North Capitol Street, NW, Washington, DC 20401.

Upon completion of each order, all furnished material (if applicable), digital deliverable(s), and 10 samples of each vinylcal ordered must be returned to the address indicated on the print order.

As applicable, all expenses incidental to picking up and returning materials, submitting and picking up proofs, submitting prior to production samples, and furnishing sample copies must be borne by the contractor.

**SCHEDULE:** Adherence to this schedule must be maintained. Contractor must not start production of any job prior to receipt of the individual print order (GPO Form 2511).

*NASA HQ Orders:* If required, furnished material must be picked up from and delivered to NASA Headquarters, Mail Code LM021, Printing and Design, Room CL78, 300 E Street, SW, Washington, DC 20546.

*All Other NASA Orders:* If required, print order and furnished material will be forwarded to the contractor via the contractor’s small package carrier, using the contractor’s small package carrier account number.

NOTE: Print orders and furnished electronic files may be furnished via FTP.

When ordered, contractor to submit hard copy proofs together with the furnished electronic media (if applicable) directly to and pick up from the address/contact for the appropriate NASA Center (see “PRIOR TO PRODUCTION SAMPLES” for list of Centers/addresses).

When ordered, PDF soft proofs are to be emailed to the ordering agency contact as specified on the print order. NOTE: Contractor to furnish an Electronic Proof Ticket with the PDF proof.

*NASA HQ Orders:* The schedule begins the workday after notification of the availability of print order and furnished material; the workday after notification will be the first workday of the schedule.

**NOTE:** All orders for “Space Mission” vinylcals ordered by NASA Headquarters will take precedence over any order for miscellaneous vinylcals. Should a conflict in the production schedule occur, the contractor should contact the Contracting Officer for negotiation of a new ship/deliver date for the miscellaneous vinylcal order(s).

*All Other NASA Orders:* The schedule begins the workday after receipt of print order and furnished material by the contractor; the workday after receipt will be the first workday of the schedule.

***Regular Schedule:***

- Contractor must complete production and distribution within 25 workdays.
- No specific date is set for submission of proofs. Proofs must be submitted as soon as possible to allow for revised proofs if contractor’s errors are judged serious enough to require them.
- When ordered, proofs will be withheld no more than 10 workdays from their receipt at the ordering agency until they are made available for pickup for hard copy proofs or until changes/corrections/“O.K. to Print” are furnished via email for PDF soft proofs. (NOTE: The first workday after receipt of proofs at the ordering agency is day one (1) of the hold time.)
- When ordered, prior to production samples must be submitted in sufficient time to allow Government testing of the samples and production and shipment in accordance with the shipping schedule.
- When ordered, the Government will approve, conditionally approve, or disapprove the prior to production samples within four (4) workdays of the receipt thereof.
- All proof, prior to production samples, and transit time is included in the 25-workday schedule.

***Accelerated Schedule:***

It is anticipated that approximately 20% of all orders issued will require an accelerated schedule. When an accelerated schedule is required, it will be specified on the individual print order.

- Contractor must complete production and distribution within 10 workdays.
- No specific date is set for submission of proofs. Proofs must be submitted as soon as possible to allow for revised proofs if contractor’s errors are judged serious enough to require them.
- When ordered, proofs will be withheld no more than one (1) workday from their receipt at the ordering agency until they are made available for pickup for hard copy proofs or until changes/corrections/“O.K. to Print” are furnished via email for PDF soft proofs. (NOTE: The first workday after receipt of proofs at the ordering agency is day one (1) of the hold time.)
- When ordered, prior to production samples must be submitted in sufficient time to allow Government testing of the samples and production and shipment in accordance with the shipping schedule.
- The Government will approve, conditionally approve, or disapprove the prior to production samples within four (4) workdays of the receipt thereof.
- All proof, prior to production sample, and transit time is included in the 10-workday schedule.

The ship/deliver date indicated on the print order is the date products ordered for shipping f.o.b. contractor's city must be picked up by the small package carrier.

Unscheduled material such as shipping documents, receipts or instructions, delivery lists, labels, etc., will be furnished with each order or shortly thereafter. In the event such information is not received in due time, the contractor will not be relieved of any responsibility in meeting the shipping schedule because of failure to request such information.

For compliance reporting purposes, the contractor must notify the U.S. Government Publishing Office of the date of shipment or delivery, as applicable. Upon completion of each order, contractor must contact the Shared Support Services Compliance Section via email at [compliance@gpo.gov](mailto:compliance@gpo.gov); via telephone at (202) 512-0520; or via facsimile at (202) 512-1364. Personnel receiving email, call, or facsimile will be unable to respond to questions of a technical nature or to transfer any inquiries.

**SECTION 3. – DETERMINATION OF AWARD**

The Government will determine the lowest bid by applying the prices offered in the “SCHEDULE OF PRICES” to the following units of production which are the estimated requirements to produce one year’s production under this contract. These units do not constitute, nor are they to be construed as, a guarantee of the volume of work which may be ordered under this contract for a like period of time.

**PREMIUM PAYMENTS:** Orders requiring an accelerated schedule will be offered and paid for at the premium rate in accordance with the contractor’s offered percentage in the “SCHEDULE OF PRICES.”

All other orders will require the regular schedule and will be paid for at the basic prices offered.

Percentages offered for premium priced work are additional to the basic prices offered for units of work. Premium payments, when authorized, will apply to all items in the “SCHEDULE OF PRICES.”

Failure of the contractor to complete work at the time specified will result in disallowance of premium payments that were anticipated, and the contractor will not list such items on their billing invoice.

It is estimated that 20% of the orders placed on this contract will be for the accelerated schedule. Premium payments for an accelerated schedule will be evaluated for award. Evaluation will be effected by applying the percentage increase, offered for the accelerated schedule in the “SCHEDULE OF PRICES,” (Item III.), to all items.

The following item designations correspond to those listed in the “SCHEDULE OF PRICES.”

- I. (a) 24
- (b) 20
- (c) 60
- (d) 18
- (e) 112

- |         | (1) | (2)   |
|---------|-----|-------|
| II. (a) | 50  | 477   |
| (b)     | 29  | 859   |
| (c)     | 84  | 2,529 |
| (d)     | 46  | 709   |
| (e)     | 33  | 627   |
| (f)     | 71  | 1,259 |



**THIS PAGE IS INTENTIONALLY BLANK.**

**SECTION 4. – SCHEDULE OF PRICES**

Bids offered are f.o.b. contractor’s city.

Prices must include the cost of all required materials and operations for each item listed in accordance with these specifications.

Bidder must make an entry in each of the spaces provided. Bids submitted with any obliteration, revision, or alteration of the order and manner of submitting bids, may be declared nonresponsive.

An entry of NC (No Charge) shall be entered if bidder intends to furnish individual items at no charge to the Government. Bids submitted with NB (No Bid), NA (Not Applicable), or blank spaces for an item may be declared nonresponsive.

The Contracting Officer reserves the right to reject any offer that contains prices for individual items of production (whether or not such items are included in the DETERMINATION OF AWARD) that are inconsistent or unrealistic in regard to other prices in the same offer or to GPO prices for the same operation if such action would be in the best interest of the Government.

All invoices submitted to the GPO shall be based on the most economical method of production. Fractional parts of 1,000 will be prorated at the per-1,000 rate.

Contractor’s billing invoice must be itemized in accordance with the items in the “SCHEDULE OF PRICES.”

**I. PREPRESS OPERATIONS:**

- (a) Composition (backing sheet only) ..... per vinylcal.....\$ \_\_\_\_\_
- (b) PDF Soft Proof ..... per vinylcal.....\$ \_\_\_\_\_
- (c) Inkjet proof (face of vinylcal) ..... per vinylcal.....\$ \_\_\_\_\_
- (d) Inkjet proof/digital one-off proof (backing sheet)..... per vinylcal.....\$ \_\_\_\_\_
- (e) Prior to Production Samples ..... per vinylcal/per 25 copies.....\$ \_\_\_\_\_

**II. PRINTING, CONSTRUCTION, PACKING, AND DISTRIBUTION:** Prices offered shall include the cost of all required materials (including stock) and operations necessary for the printing, construction, packing, and distribution of the products listed in accordance with these specifications.

	<u>Makeready and/or Setup</u> (1)	<u>Running Per 1,000 Copies</u> (2)
(a) Printing in four-color process, including construction ..... per vinylcal.....	\$ _____	\$ _____
(b) Printing in a single ink color, including construction ..... per vinylcal.....	\$ _____	\$ _____

\_\_\_\_\_  
 (Initials)

	<u>Makeready and/or Setup</u> (1)	<u>Running Per 1,000 Copies</u> (2)
(c) Printing in an additional color not charged for under line items II.(a) or (b) .....per color/per vinylcal..... \$ _____		\$ _____
(d) Clear ink coating.....per vinylcal..... \$ _____		\$ _____
(e) Laminating.....per vinylcal..... \$ _____		\$ _____
(f) Printing on back of backing sheet in black ink .....per vinylcal..... \$ _____		\$ _____

**III. PREMIUM PAYMENTS:** Premium payments, when authorized, will apply to all items required to produce the product ordered. This is only authorized for orders which require the "Accelerated Schedule."

Percentage increase ..... %

**TYPEFACES:** If manufacturers' generic equivalent typefaces are proposed, the bidder must list on the line of the same number as the preferred typeface, the name of the equivalent typeface and composing machine to be used.

Preferred Typefaces:

1. Helvetica
2. Helvetica Bold
3. Cyrillic (Russian)
4. Cyrillic Bold

Manufacturers' Generic Equivalent Typefaces

Name of Composing Machine

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

\_\_\_\_\_  
(Initials)

**SHIPMENTS:** Shipments will be made from: City \_\_\_\_\_ State \_\_\_\_\_.

The city(ies) indicated above will be used for evaluation of transportation charges when shipment f.o.b. contractor's city is specified. If no shipping point is indicated above, it will be deemed that the bidder has selected the city and state shown below in the address block, and the bid will be evaluated and the contract awarded on that basis. If shipment is not made from evaluation point, the contractor will be responsible for any additional shipping costs incurred.

**DISCOUNTS:** Discounts are offered for payment as follows: \_\_\_\_\_ Percent \_\_\_\_\_ Calendar Days. See Article 12 "Discounts" of Solicitations Provisions in GPO Contract Terms (Publication 310.2).

**AMENDMENT(S):** Bidder hereby acknowledges amendment(s) number(ed) \_\_\_\_\_.

**BID ACCEPTANCE PERIOD:** In compliance with the above, the undersigned agree, if this bid is accepted within \_\_\_\_\_ calendar days (60 calendar days unless a different period is inserted by the bidder) from the date for receipt of bids, to furnish the specified items at the price set opposite each item, delivered at the designated point(s), in exact accordance with specifications.

NOTE: Failure to provide a 60-day bid acceptance period may result in expiration of the bid prior to award.

**BIDDER'S NAME AND SIGNATURE:** Unless specific written exception is taken, the bidder, by signing and submitting a bid, agrees with and accepts responsibility for all certifications and representations as required by the solicitation and GPO Contract Terms – Publication 310.2. When responding by fax or mail, fill out and return one copy of all pages in "SECTION 4. – SCHEDULE OF PRICES," including initialing/signing where indicated.

*Failure to sign the signature block below may result in the bid being declared non-responsive.*

Bidder \_\_\_\_\_  
(Contractor's Name) (GPO Contractor's Code)

\_\_\_\_\_  
(Street Address)

\_\_\_\_\_  
(City – State – Zip Code)

By \_\_\_\_\_  
(Signature and Title of Person Authorized to Sign this Bid) (Date)

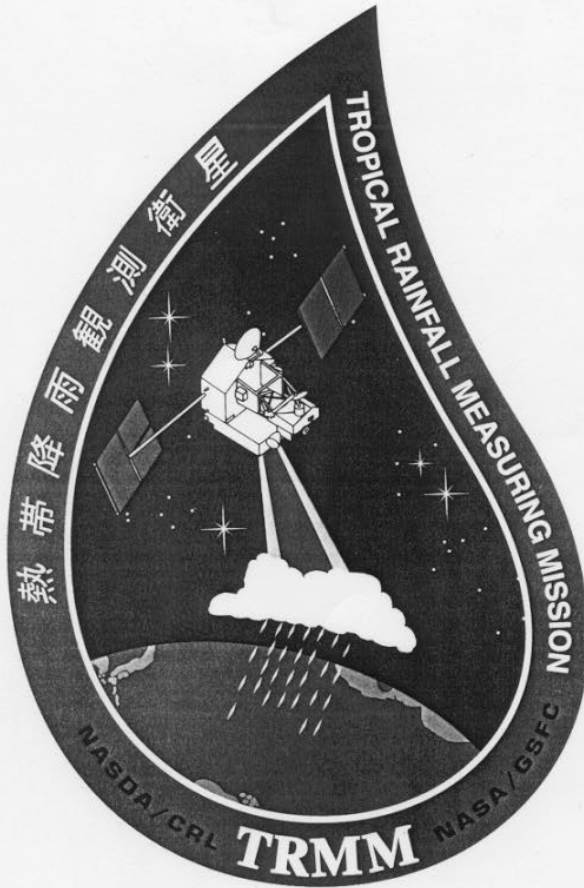
\_\_\_\_\_  
(Printed Name) (Telephone Number)

\_\_\_\_\_  
(Email) (Fax Number)

**THIS SECTION FOR GPO USE ONLY**

Certified by: \_\_\_\_\_ Date: \_\_\_\_\_ Contracting Officer: \_\_\_\_\_ Date: \_\_\_\_\_  
(Initials) (Initials)

## EXHIBIT A



Sample of face of vinylcal.

### TRMM Project Decal

The Tropical Rainfall Measuring Mission (TRMM), a joint mission between the National Aeronautics and Space Administration (NASA) and the National Space Development Agency of Japan (NASDA), is the first satellite dedicated to measure tropical rainfall and contribute to an understanding of how tropical rainfall influences global circulations and climate. TRMM was launched November 27, 1997, on the H-II rocket. The launch took place from the Tanegashima Space Center, Japan. The decal, shaped to represent a large raindrop, shows the TRMM observatory performing the mission as it orbits the Earth. A symbolic beam, projecting downward from the observatory, is measuring rain coming from a large cloud. The five bright stars visible in the dark sky represent the five instruments flying on TRMM. TRMM is part of NASA's long-term, coordinated research effort to study the Earth as a global environmental system. The program name is presented in both Japanese and English in the border of the decal. This decal was designed by the TRMM project. The TRMM project is managed by the Goddard Space Flight Center for NASA's Earth Sciences Division, Washington, D.C. For more information, visit the TRMM web page at:

<http://trmm.gsfc.nasa.gov>

Sample of backing sheet of vinylcal  
with typeset description.

## EXHIBIT A (Continued)



Sample of face of vinylcal.

### Эмблема экипажа СТС-71

На эмблеме экипажа СТС-71 изображен корабль «Атлантик» во время первого международного полета со стыковкой КК «Шаттл» с российской космической станцией «Мир». Имена 10 астронавтов и космонавтов, которые полетят на борту Шаттла, начертаны вдоль внешней границы эмблемы. Восходящее солнце знаменует начало новой эпохи сотрудничества между двумя странами. КК «Атлантик» и ОС «Мир» изображены в отдельных окружностях, пересекающихся по центру эмблемы и символизирующих слияние космических программ двух стран – покорителей космоса. Флаги США и России символизируют равное участие партнеров в выполнении программы полета. Символ совместной программы в нижней средней части эмблемы означает тесное сотрудничество Центров Управления Полетом обеих стран.

Эмблема экипажа была выполнена художником, специализирующимся в области авиации и космонавтики, Бобом МакКоллом, который также создал эмблему для экипажа по проекту Аполлон-Союз в 1975 г. – первого международного полета со стыковкой.

Sample of backing sheet of vinylcal with typeset description using the Cyrillic (Russian) typeface.



EXHIBIT B

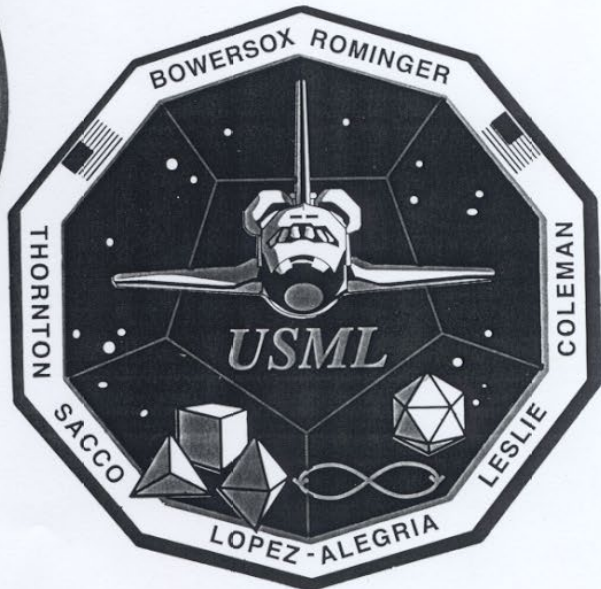


EXHIBIT C





EXHIBIT D

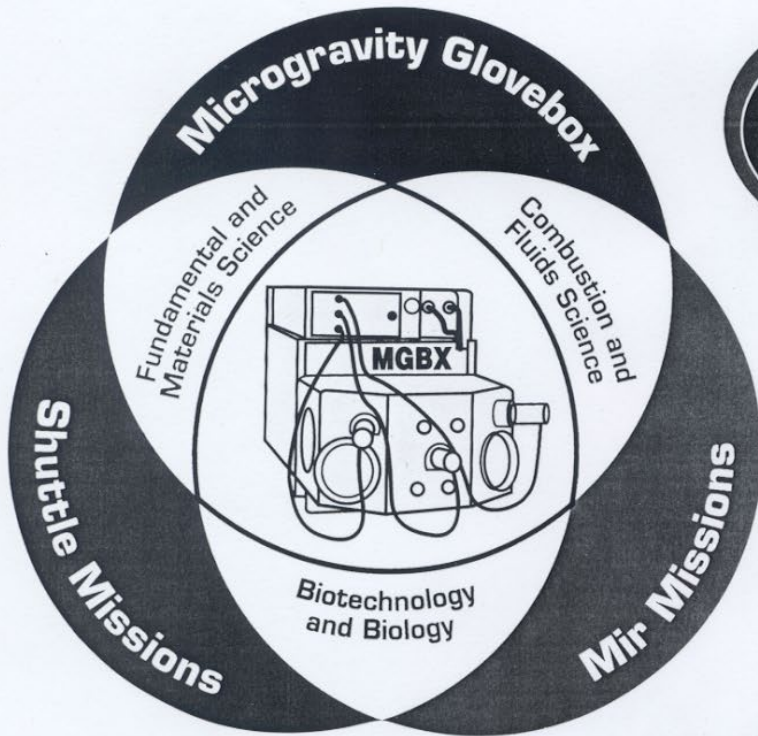
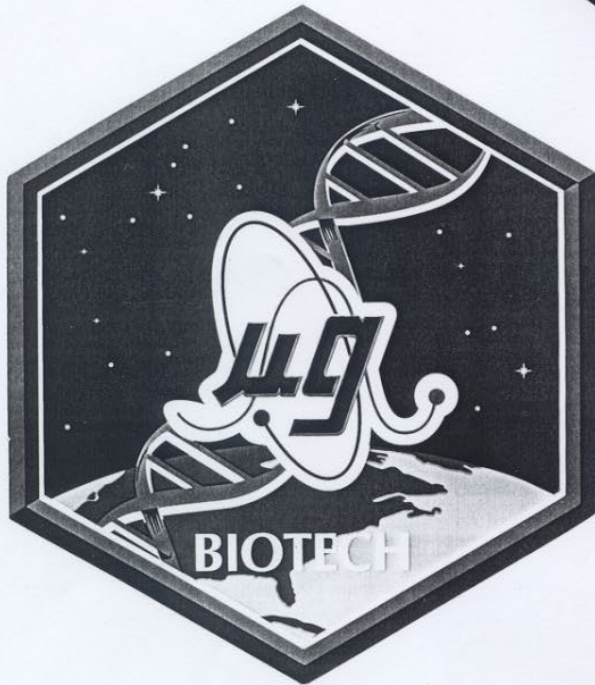


EXHIBIT E

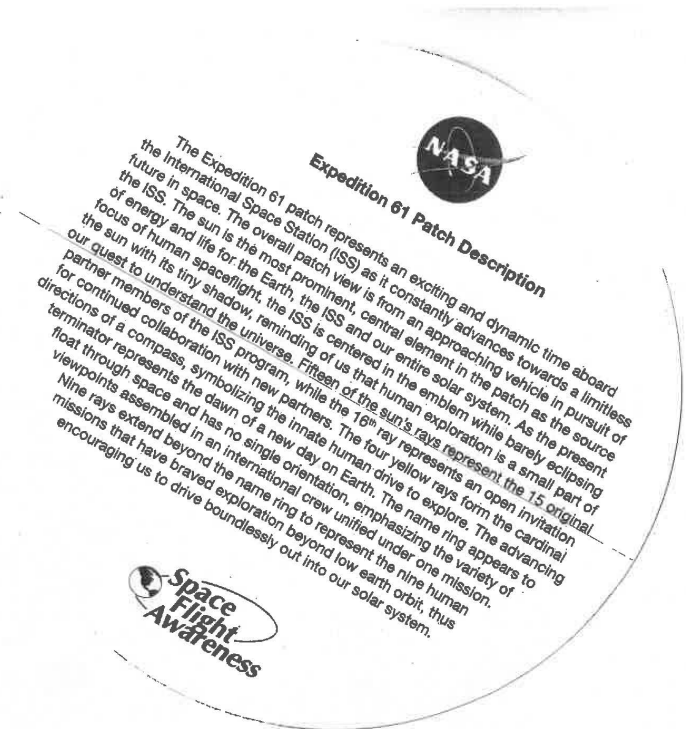


**EXHIBIT F – Face of decals**





## EXHIBIT F – Back of decals



### Celebrating 20 years on the International Space Station

On November 2, 2020, humankind will celebrate the 20<sup>th</sup> anniversary of continuous human presence on the International Space Station.

One of the most complex engineering feats and ambitious international collaborations in history, the space station is a convergence of science, technology and human innovation. Its unique microgravity environment provides a platform for demonstrating new technologies and conducting laboratory research that have led scientific discovery and improved life on Earth.

Today, the space station is fostering a commercial space economy in low-Earth orbit and preparing NASA to establish a sustainable human presence at the Moon with the Artemis program.

As you gaze at the stars, take a moment to spot astronauts living and working off the Earth.

Spot the space station in the night sky:  
<https://spotthestation.nasa.gov>

#SpaceStation20th



**EXHIBIT G – Face of decals**



## EXHIBIT G – Back of decals

### The International Space Station

A world-class achievement of engineering and international cooperation, the space station was built and is operated by 15 partner countries and has enabled a permanent human presence in space since November 2000. Over 2600 research investigations have been conducted by over 3000 investigators in more than 100 countries, including experiments in biology/biotechnology, physical science, earth science, space science, human research, technology development and education. In addition, it supports growth of the space economy by providing a cost-effective platform for testing of potential products by commercial companies. A scientific and economic engine, the International Space Station is leading discovery and enabling space exploration, while also improving life on Earth.

International Space Station on the Web: <https://www.nasa.gov/station>

Spot the Station: <https://spothestation.nasa.gov/>

International Space Station on the Web: <https://www.nasa.gov/iss-science>

Space Station Science on the Web: <https://www.nasa.gov/>

NASA homepage: <https://www.nasa.gov/>



#### Expedition 62 Patch Description

The Expedition 62 patch embodies two main themes: first, the importance of the global partnership on which the International Space Station (ISS) was founded, and second, the paradigm shifting perspective provided by seeing our planet Earth from above with human eyes. Based on a vintage mosaic found near the headquarters of the Gagarin Cosmonaut Training Center, the two space explorers flying in formation represent friendship between space agencies and the people that work in them. The shining star in the hand is a symbol of unity under a common quest for discovery, as this partnership continues to burn bright into the future. Generated by the flying astronauts, the shock wave signifies the powerful impact of human space exploration and the scientific research conducted on the ISS, strengthened when we work as a team, side by side with all of our international partners. The backdrop of the large Sun behind our planet Earth reminds us that we are but a very small component of our solar system and our universe. The Sun is also responsible for fueling life on Earth, sustaining the biosphere (symbolized by the leaf) surrounded by the precious, fragile atmosphere (represented by the clouds). This imagery reminds us of our duty to protect our home planet, to preserve our environment and to carry principles of responsible environmental stewardship with us as we explore the universe. This birch leaf combines the principal elements, embodying nature, science and the global alliance, as these trees are indigenous to regions that crewmembers from all sides call home.

