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ARTICLE I - STATEMENT OF WORK

The contractor shall provide all materials, equipment, facilities, and personnel for the development and fabrication of a partial engineering model DI detector subsystem.

Specific tasks to be performed shall include, but not be limited to, the following:

- A) Design and fabrication of engineering model (EM) D1 cell, front-end electronics (FEE), bleeder strings (BLS), bi-polar amplifier (BPA) and D1 integrating structure.
- B) Design and fabricate system for selection of flight PMT's.
- C) Software development for PMT selection system and SCOE (special checkout equipment).
- D) Construct and test lead collimator for DI cell acceptance tests with necessary support structure.
- E) Perform trade-off studies as necessary to support D1 detector subsystem.
- F) Continue detailed analysis of Science Model (SM) tests.
- G) Support COMPTEL team activities as requested by the Principal Investigator (PI).
- H) Support COMPTEL Preliminary Design Reviews (PDR) planned for March 1982 at BASD and August 1982 at MPI.
- I) Design, fabrication, and checkout of SCOE.
- J) Partial purchase of Research Computer Center Prime 750 computer system for dedicated use by COMPTEL.

The contractor shall provide field support as required for the following COMPTEL and GRO activities:

- A) Science Working Team (SWT) and ADP Team meetings at the GSFC.
- B) COMPTEL team and working group meetings as required by the PI.
- C) Two PDR's to be held in CY 1982.

Applicable Documents:

- A) GSFC Preferred Parts List No. 14.
- B) Performance Assurance Requirements for GRO Instruments, Document 302-S-003.
- C) Performance Assurance Implementation Plan for the COMPTEL instrument.

Deliverable Items:

- A) Monthly technical progress reports including schedule updates.
- B) Financial Management Reports (533M & 533Q).
- C) Items as specified in the COMPTEL Performance Assurance Implementation Plan.

ARTICLE II - PERIOD OF PERFORMANCE

The Period of Performance shall be from date of contract through November 30, 1982.

ARTICLE III - ESTIMATED COST

The estimated cost for complete performance of this contract is \$1,631,800.00.

ARTICLE IV - SUBMISSION OF VOUCHERS OR INVOICES FOR PAYMENT OF COSTS

Vouchers or invoices for the payment of costs shall be submitted independent of vouchers or invoices for payment of fee.

In accordance with the provisions of the clause of this contract entitled "Allowable Cost and Payment", invoices or vouchers and any required supporting statements or certificates, properly identifiable with the contract number, will be submitted by the Contractor to the Contracting Officer, or his authorized representative. Reimbursement claims should be submitted as follows:

- 1 Original SF 1034, SF 1035 or equivalent Contractor's attachment
- 7 Copies SF 1034a, SF 1035a or equivalent Contractor's attachment

The Contractor shall mark on copies 1 thru 5 of the foregoing SF 1034a, by insertion in the memorandum block, the name and adress of the following parties to facilitate distribution of paid copies of vouchers/invoices by the GSFC Financial Management Division:

et for 14 passes

& Project Administration

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ARTICLE II - DELIVERABLE ITEMS AND SCHEDULE

ARTICLE III - P.O.B. POINT

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ARTICLE I - SCOPE OF WORK

The Contractor shall provide the materials, services, facilities, and personnel necessary for the design, development, fabrication, testing, checkout, calibration, and certification of the Interstellar Medium Absorption Profile Spectrograph (IMAPS) Experiment to be flown on the Black Brant sounding rocket as set forth in Attachment A entitled "Statement of Work." The Contractor shall also support instrument testing, integration and flight operations at the locations designated in the Statement of Work. The Contractor shall also analyze, reduce and report on the flight data within a period of one year after receipt of such data.

The work is to be performed in four sequential phases: the Design Phase, the Spectrograph Fabrication Phase, the Detector Fabrication and Test Phase, and the Integration, Launch and Data Analysis Phase in accordance with the milestone schedule outlined in Attachment C.

ARTICLE II - DELIVERABLE ITEMS AND SCHEDULE

The following items shall be completed and/or delivered as indicated. Unless otherwise indicated all dates are "months after effective date of contract". The references below are to applicable paragraphs of the aforementioned Attachment A and/or pertinent Contract Schedule Articles.

Ite	<u>n</u>	Description	Reference	QTY	Delivery
1		Program Plan	SOW 1.2.1	6	1 1/2 months
2		Monthly Progress Re- ports	SOW 1.2.5 Art.XV	6	Due by 15th day of month
3		Monthly Financial Re- ports	(533M) Art. XVII	5	Due by 15th day of month
4	• • •	Quarterly Financial Reports	(533Q) Art. XVII	5	15th of March June, Sept. Dec.
5		Informal Reviews	SOW 1.22.1 Art. II	II , s	As required by the Technical Officer
E		Preliminary Design (PDR) Review	SOW 1.3.2.1		Mar. 1981
7	1000 (0000 1 100 10 000	Critical Design Review	SOW 1.3.2.1		Aug. 1981

ARTICLE II - DELIVERABLE ITEMS AND SCHEDULE (Cont'd)

<u>Ite</u>	Description	Reference	QIY	Delivery
٤	Top Level Drawings Layout & Rocket Interface	SOW 1.3.2.2		Aug. 1981
⁻ 9	Detector Development (DDR) Review	SOW 1.3.2.3 Art. III	4	April 1982
10	Pre-Integration Review (PIR)	SOW 1.3.2.4 Art. III		Jan. 1983
11	Test Data	SOW 1.3.2.4	1 Set	Jan. 1983
12	IMAPS Rocket Instrument	SOW	1 ,	Mar. 1983
13	Ground Support Equipment	SOW	1 Set	-Mar. 1983
14	Flight Readiness Review	SOW 1.3.2.5	. •	Mar. 1983
15	Final Report a. Draft	Art. XVI	10	60 days after launch but no later than July 1983
	b. Final		25	90 days after launch but no later than Aug. 1983
16	Technical Reports	SOW 1.7 Art. XVII	5	Within 30 days of availability but no later than 1 year after launch

ARTICE III - F.O.B. POINT

Delivery of all items called for herein shall be F.O.B. destination and shall be shipped "all transportation costs prepaid".



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ARTICLE E.2--ESTIMATED COST AND COST-SHARING (MARCH 1972)

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SECTION E

ARTICLE E.1--SERVICES TO BE FURNISHED

The contractor shall furnish lunar and satellite laser ranging support in accordance with Article F.l. Scope of Work, and Exhibit A entitled "Operation and Management of the Lunar and Satellite Laser Ranging Ground Station Equipment at McDonald Observatory, Texas, and the Application of Single Photo Electron Techniques in Laser Ranging for Crustal Dynamics Measurements," dated November 1979.

ARTICLE E.2--ESTIMATED COST AND COST-SHARING (March 1972)

It is estimated that the total cost of performing the work under this, including the government's and University's share, contract will be \$1,745,043.

For the performance of the work under this contract, the contractor shall be reimbursed for not more than 96 percent of the costs of performance determined to be allowable in accordance with the Clause number 172d entitled "Allowable Cost and Payment." The remaining 4 percent or more, of the costs of performance so determined shall constitute the contractor's share for which it will not be reimbursed by the government. Accordingly, the government's share shall not exceed \$1,675,241.

The contractor will maintain records of all contract costs claimed by the contractor as constituting part of its share and such records shall be subject to audit by the government. Costs contributed by the contractor shall not be charged to the government under any other grant or contract (including allocation to other grants or contracts as part of an independent research and development program).

ARTICLE E.3--DATE OF INCURRENCE OF COSTS

The contractor shall be entitled to reimbursement for costs incurred in an amount not to exceed \$70,000 on or after November 15, 1979, which, if incurred after this contract had been entered into, would have been reimbursable under the provisions of this contract.

SECTION F

ARTICLE F. 1 -- SCOPE OF WORK

The contractor shall provide qualified personnel, facilities, material, and services, not otherwise provided by the government under the terms of this contract, as necessary to perform those functions set forth in Exhibit A, dated November 1979, entitled "Operational Management of the Lunar and Satellite Laser Ranging Ground Station Equipment at McDonald Observatory, Texas, and the Application of Single Photo Electron Techniques in Laser Ranging for Crustal Dynamics Measurements," (attached hereto and made a part of this contract.

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ARTICLE I - SCOPE OF WORK

The Contractor shall provide the personnel, materials, facilities, and equipment except as otherwise provided herein, necessary to design, develop, fabricate, verify, transport, and store the Hopkins Ultraviolet Telescope (HUT) in accordance with Attachment A, entitled "Statement of Work for the Development of the Hopkins Ultraviolet Telescope (HUT)", dated April 15, 1981, attached hereto and made a part of this contract. The Contractor shall support instrument integration, flight operations, instrument deintegration, and data analysis in accordance with the aforementioned Statement of Work.

ARTICLE II - DELIVERABLE ITEMS AND SCHEDULE

The following items shall be completed and/or delivered as indicated. The references below are to applicable paragraphs of the Statement of Work (SOW), and/or pertinent Contract Schedule Articles (Art).

A. HARDWARE

Item	Reference	Description	Qty	Delivery Date
Al	SOW	Hopkins Ultraviolet Telescope	. 1	April 1, 1984
A2	SOW	Ground Support Equipment	1	April 1, 1984
А3	N/A	Shipping Container	1	April 1, 1984
A4	N/A	Spare TV Transfer Optics System	1	April 1, 1984

B. DOCUMENTATION

Note: ADC = Af	fter Effective	Date of (Contract.
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Item	Reference	Description	Qty	Delivery Date
В1	SOW 1.2	Software Development Plan (Final)	3	30 Days ADC

51/2 Months ADC

191/2 Months ADC

March 1, 1984

after receipt

20

20

3

ARTICLE II - DELIVERABLE ITEMS AND SCHEDULE (Cont'd)

- Preliminary

Note: ADC = After Effective Date of Contract.

- Final

DOCUMENTATION (Cont'd)

<u>Item</u>	Reference	Description	QTY	Delivery Date
в2	sow 1.3.2	Experiment Requirements Document	•	

вз	SOW 1.3.3.1	Preliminary Inst Data	rument Review	20	Two weeks prior to Prel. Instrument Review

В4	SOW 1.3.3.2	Critical Instrument	Review	Data	Two weeks prior to Critical
					Instrument
	•				Review
	•				

В5	SOW 1.3.3	Delivery Readiness Review Data	3	March 1, 1984
В6	SOW 1.8	Engineering Report	3	Within 30 Days after landing
ъ7 ·	SOW 1.8	Preliminary Scientific Report	3.	Within 90 Days

SOW 1.8 Preliminary Scientific Report

		•	•	of instrument data
в8	SOW 1.8 Art. XXI	Published Reports, Scientific Papers and Theses		No later than February, 1986

В8	SOW 1.8	Published Reports,	Scientific	_	No later	
	Art. XXI	Papers and Theses	•	(includ-	February,	1986
	*			ing 1*)		
-		•				7

B9 S0	W 1.8	Experiment Data	, .		No later	
				F	ebruary,	1986

^{*(}Reproducible Copy)

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ARTICLE II - DELIVERABLE ITEMS AND SCHEDULE (Cont'd)

B. DOCUMENTATION (Cont'd)

Note: ADC = After Effective Date of Contract.

A. J		•		
Item	Reference	Description	QTY	Delivery Date
в10	SOW 1.8	Science Data Plan	4	No later than March, 1984
Bll	SOW 1.8	National Science Data Center Report	4	February 28, 1986
B12	SOW 1.2.3 Art. XIX	Monthly Letter Progress Report	3	Within 10 Days after end of month
·B13	SOW 1.2.1 Art. XXII	NASA Monthly Financial Management Report	5	Within 10 Days after end of each month
B14	SOW 1.2.1 Art. XXII	NASA Quarterly Financial Management Report	5	Within 10 Days after end of 3 month period
B25	Art. XX	Final Project Report-Type III	15	February 28, 1986

C. MEETINGS AND REVIEWS

Item	Reference	Description	QTY	Delivery Date
C1	SOW 1.2.2	Review Meetings & Technical Conferences	13	Quarterly - beginning 3 Months ADC thru 3/85
C2	SOW 1.3.3.1	Preliminary Instrument Review	1	4 Months ADC
.c3	SOW 1.3.3.2	Critical Instrument Review	1	13 Months ADC
C4	sow 1.3.3.3	Delivery Readiness Review	1	March 15, 1984

RTICLE II - DELIVERABLE ITEMS AND SCHEDULE (Cont'd)

D. MISSION SUPPORT

Item	Reference	Description	QTY	Delivery Date
D.1	SOW 1.4.3	Integration Test Support	3 trips - 7 days each	April-December 1984
D.2	SOW 1.6	Flight Support	l trip - 7 days each	February 1985
D.3	SOW 1.7	Post Flight Support	l trip - 3 days each	March 1985

ARTICLE III - PLACE OF PERFORMANCE

Performance of this contract shall be at the Contractor's facilities located at Baltimore and Laurel, Maryland; and at the Goddard Space Flight Center in the vicinity of Greenbelt, MD; the Johnson Space Center in the vicinity of Houston, TX, and the John F. Kennedy Space Center in the vicinity of Cape Canaveral, FL.

ARTICLE IV - ESTIMATED COST

The estimated cost for the complete performance of the contract is \$5,924,500.

The performance of the contract shall consist of four distinct phases. Each phase shall begin only upon successful completion of the prior phase and authorization of the Contracting Officer to proceed. It is agreed and understood that successful completion of a phase does not obligate NASA to continue the next phase. The Contractor is to assume that authorization to proceed has been given unless notification to the contrary is received 30 days prior to the commencement of a phase.

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