

GEORGIA INSTITUTE OF TECHNOLOGY
Engineering Experiment Station

PROJECT INITIATION

Date: July 9, 1974

Project Title: "Antenna Analysis of Two Fire-Control Radars"

Project No.: A-1631

Project Director: N. T. Alexander

Sponsor: U.S. Army Missile Command

Effective: May 6, 1974 Estimated to run until: December 5, 1974 (Perf. Period)*

Type Agreement: Contract No. DAAH01-74-G-0683 Amount: \$ 59,334

Reports Required: Monthly Cost and Performance Monthly Technical
Letter Final Technical

Sponsor Contact Person (S):

Technical Matters

Contractual Matters

U.S. Army Missile Command

(thru GTRI)

ATTN: AMSM-YPE

Mr. R. J. Whitcomb (ACO)

Redstone Arsenal, Alabama 35809

ONRRR
Campus

An additional month is allotted for preparation
and distribution of final report.

SENSOR SYSTEMS

Assigned to

Division

COPIES TO:

- | | |
|--|--|
| <input type="checkbox"/> Project Director | <input type="checkbox"/> Photographic Laboratory |
| <input type="checkbox"/> Director | <input type="checkbox"/> Security, Property, Reports Coordinator |
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GEORGIA INSTITUTE OF TECHNOLOGY
ENGINEERING EXPERIMENT STATION

PROJECT TERMINATION

Date: August 19, 1975

Project Title: Antenna Analysis of Two Fire-Control Radar

Project No.: A-1631

Project Director: N. T. Alexander

Sponsor: U. S. Army Missile Command; Huntsville, Ala. 35809

Effective Termination Date: 4/6/75 (Contract Expiration)

Clearance of Accounting Charges: by 4/30/75

Grant/Contract Closeout Actions Remaining: Final Invoice & Closing Documents
Final Report of Inventions
Gov't Property Inventory & Cert.
Classified Material Cert.

Assigned to: Sensor Systems Division

COPIES TO:

Project Director
Director, EES
Director, ORA/GTRI
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Patent Coordinator

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ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

17 June 1974

Headquarters

U. S. Army Missile Command

ATTN: Mr. Glen Priddy, AMSMI - YPE

Redstone Arsenal, Ala. 35809

Reference: Contract DAAH01-74-00683

Subject: Technical Status Report No. 1 covering the period 6 May 1974 through 10 June 1974.

Gentlemen:

This is the first Monthly Progress Summary under the above referenced contract and covers the period 6 May through 10 June 1974.

Contract negotiations were completed with the contract becoming effective on 6 May 1974. This effort has been designated as Georgia Tech project A-1631. The project will be executed in the Electromagnetics Program Office, managed by Dr. D. G. Bodnar, within the Sensor Systems Division with N. T. Alexander serving as Project Director.

On 13 May 1974, Messrs. N. T. Alexander and J. W. Cofer of Georgia Tech visited MIA facilities in Huntsville, Alabama to discuss the initial contract direction with Messrs. R. G. Priddy and J. Lancaster of MIA. Several relevant documents were reviewed during this visit, and Georgia Tech personnel requested that copies of certain of these be forwarded to Tech for use on the subject contract.

It was suggested by MIA personnel that considerably more information might be available at the Naval Intelligence Support Center (NISC) in Alexandria, Virginia. Consequently, on 6 June, Messrs. N. T. Alexander, J. W. Cofer, and D. G. Bodnar visited C. Kaessinger and E. D. Woodward at the Naval Intelligence Support Center. Reports and photographs concerning the system of interest were reviewed and the system was discussed at length. Several of these documents and photographs have subsequently been requested for further review.

The documents requested from MIA have been received and an analysis of this data has begun. The prediction of antenna patterns for the various subsystems has been initiated based on the data received from MIA.

During the next report period the review of available data and photography will be continued. Prediction of antenna patterns for various sets of antenna parameter values will continue and conceptual specification of the antennas will begin. Also, target detection and tracking accuracy

predictions and evaluation of the system in a multipath situation will be initiated to provide additional input to the final specification of the antenna.

Respectfully submitted,

✓ Neal T. Alexander,
Project Director

NTA:jm

Approved:

D. G. Bodnar, Manager
Electromagnetic Programs Office



ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

15 July 1974

Headquarters

U. S. Army Missile Command

ATTN: Mr. Glen Priddy, AMSMI - YPE

Redstone Arsenal, Alabama 35809

Reference: Contract DAAH01-74-00683

Subject: Technical Status Report No. 2 covering the period 1 June 1974 through 30 June 1974.

Gentlemen:

This is the second Monthly Progress Summary under the above referenced contract and covers the period 1 June through 30 June 1974.

Review of currently available system information is continuing with the emphasis on determining bounds of the various system parameters. For initial antenna pattern calculation purposes, average or "best guess" data is being employed to provide a basis on which the parameter optimization may be founded. Documents and photographs requested from NISC have not yet been received.

Preliminary multipath and target detection and tracking accuracy prediction have been initiated. Conceptual specification of antenna feed structures has begun; the performance of these structures in the particular environment of interest is being analyzed to determine the most likely configuration.

Cost and performance data through 30 June is included as Table I. The available man-hours and funds are sufficient to complete the remaining program tasks.

During the next report period it is expected that determination of the bounds of parameters should be complete. Calculation of antenna patterns

for various combinations of these parameters will continue and the overall performance of the system evaluated in light of these results.

Respectfully submitted,

Neal T. Alexander, (

Project Director

NTA:jm

Approved:

D. G. Bodnar, Manager
Electromagnetics Programs Office

TABLE I

COST AND PERFORMANCE REPORT NO. 2 (through 30 June 1974)
CONTRACT DAAH01-74-00683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	299.3	\$3,998.52	--
Cumulative Expended/Completed To Date	462.8	6,502.02	--
Percent* Expended/Completed During this Month	7.3	6.7	6.7
Cumulative Percent* Expended/Completed To Date	11.3	11.0	11.0

*Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-months at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contract Funds = \$52,831.98



ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

17 June 1974

Department of the Army
Missile Intelligence Agency
U. S. Army Missile Command
Redstone Arsenal, Alabama 35809

Attention: AMSMI-YM

Reference: Contract DAAH01-74-00683

Subject: Monthly Contractor Cost and Performance Report No. 1
Covering the Period 5 May to 31 May 1974

Gentlemen:

This is the first Monthly Cost and Performance Report under the referenced contract and covers the period 5 May to 31 May 1974.

The cost and performance information as required by data item DI-F-1208A of the referenced contract document is contained in the enclosed Table I entitled "Monthly Cost and Performance Report." The monthly and cumulative percentages of man-hours expended are calculated on the basis of 4089 man-hours (23.5 man-months at an average of 174 man-hours/man-month) as estimated in Attachment II of Georgia Tech Proposal No. ST-SSB-73-040 entitled "Antenna Analysis of Two Fire Control Radars" (U), dated 16 June 1973.

At this point in the schedule it is felt that both the remaining man-hours and contract funds are sufficient to successfully complete the work on this research program. There are no outstanding commitments against the referenced contract that are not reflected in the data of Table I.

Respectfully submitted,

N. T. Alexander,
Project Director

NTA:jm

Approved:

D. G. Bodnar, Manager
Electromagnetic Programs Office

Enclosure A/S

17 June 1974

TABLE I

COST AND PERFORMANCE REPORT NO. 1
CONTRACT DAAH01-74-00683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	162.6	\$2,503.50	----
Cumulative Expended/Completed To Date	162.6	\$2,503.50	----
Percent* Expended/Completed During this Month	4.0	4.2	4.2
Cumulative Percent* Expended/Completed To Date	4.0	4.2	4.2

*Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-months at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contract Funds = \$56,830.50



ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

8 August 1974

Department of the Army
Missile Intelligence Agency
U. S. Army Missile Command
Redstone Arsenal, Alabama 35809

Attention: AMSMI-YM

Reference: Contract DAAH01-74-00783

Subject: Monthly Contractor Cost and Performance Report No. 3.
Covering the Period 1 July through 31 July 1974

Gentlemen:

This is the third Monthly Cost and Performance Report under the referenced contract and covers the period 1 July to 31 July 1974.

The cost and performance information as required by data item DI-F-1208A of the referenced contract document is contained in the enclosed Table I entitled "Monthly Cost and Performance Report." The monthly and cumulative percentages of man-hours expended are calculated on the basis of 4089 man-hours (23.5 man-months at an average of 174 man-hours/man-month) as estimated in Attachment II of Georgia Tech Proposal No. ST-SSD-73-040 entitled "Antenna Analysis of Two Fire Control Radars" (U), dated 16 June 1973.

At this point in the schedule both the remaining man-hours and contract funds are sufficient to successfully complete the work on this research program. There are no outstanding commitments against the referenced contract that are not reflected in the data of Table I.

Respectfully submitted,

Neal T. Alexander, /
Project Director

NTA:jm

Approved:

D. G. Bodnar,
Manager, Electromagnetic Programs Office

Enclosure A/S

TABLE I

COST AND PERFORMANCE REPORT NO. 3 (through 31 July 1974)
 CONTRACT DAAH01-74-00683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	375.5	\$4,025.67	--
Cumulative Expended/Completed To Date	838.4	10,527.69	--
Percent* Expended/Completed During this Month	9.1	6.8	6.8
Cumulative Percent* Expended/Completed To Date	20.5	17.7	17.7

*Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-months at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contract Funds = \$48,806.31



ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

8 September 1974

Department of the Army
Missile Intelligence Agency
U. S. Army Missile Command
Redstone Arsenal, Alabama 35809

Attention: AMSMI-YM

Reference: Contract DAAH01-74-00783

Subject: Monthly Contractor Cost and Performance Report No. 4.
Covering the Period 1 August through 31 August 1974

Gentlemen:

This is the fourth Monthly Cost and Performance Report under the referenced contract and covers the period 1 August to 31 August 1974.

The cost and performance information as required by data item DI-F-1208A of the referenced contract document is contained in the enclosed Table I entitled "Monthly Cost and Performance Report." The monthly and cumulative percentages of man-hours expended are calculated on the basis of 4089 man-hours (23.5 man-months at an average of 174 man-hours/man-month) as estimated in Attachment II of Georgia Tech Proposal No. ST-SSD-73-040 entitled "Antenna Analysis of Two Fire Control Radars" (U), dated 16 June 1973.

At this point in the schedule both the remaining man-hours and contract funds are sufficient to successfully complete the work on this research program. There are no outstanding commitments against the referenced contract that are not reflected in the data of Table I.

Respectfully submitted,

Neal T. Alexander,
Project Director

NTA:jm

Approved:

D. G. Bodnar, 
Manager, Electromagnetic Programs Office

Enclosure A/S

TABLE I

COST AND PERFORMANCE REPORT NO. 4 (through 31 August 1974)
 CONTRACT DAAH01-74-00683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	344.5	\$5,352.46	--
Cumulative Expended/Completed To Date	1,182.9	15,880.15	--
Percent* Expended/Completed During this Month	8.4	9.0	9.0
Cumulative Percent* Expended/Completed To Date	28.9	26.8	26.8

*Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-months at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contract Funds = \$43,453.85



ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

8 October 1974

Department of the Army
Missile Intelligence Agency
U. S. Army Missile Command
Redstone Arsenal, Alabama 35809

Attention: AMSMI-YM

Reference: Contract DAAH01-74-00783

Subject: Monthly Contractor Cost and Performance Report No. 5
Covering the Period 1 September through 30 September 1974

Gentlemen:

This is the fifth Monthly Cost and Performance Report under the referenced contract and covers the period 1 September to 30 September 1974.

The cost and performance information as required by data item DI-F-1208A of the referenced contract document is contained in the enclosed Table I entitled "Monthly Cost and Performance Report." The Monthly and cumulative percentages of man-hours expended are calculated on the basis of 4089 man-hours (23.5 man-months at an average of 174 man-hours/man-month) as estimated in Attachment II of Georgia Tech Proposal No. ST-SSD-73-040 entitled "Antenna Analysis of Two Fire Control Radars" (U), dated 16 June 1974.

At this point in the schedule both the remaining man-hours and contract funds are sufficient to successfully complete the work on this research program. There are no outstanding commitments against the referenced contract that are not reflected in the data of Table I.

Respectfully submitted,

Neal T. Alexander,
Project Director

NTA:jm

Approved:

D. G. Bodnar,
Manager, Electromagnetic Programs Office

Enclosure A/S

TABLE I

COST AND PERFORMANCE REPORT NO. 5 (through 30 September 1974)
CONTRACT DAAH01-74-00683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	310.5	\$4,199.65	--
Cumulative Expended/Completed To Date	1,493.4	20,079.80	--
Percent* Expended/Completed During this Month	7.6	7.1	7.1
Cumulative Percent* Expended/Completed To Date	36.5	34.0	34.0

*Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-months at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contract Funds = \$39,254.20



ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

11 November 1974

Department of the Army
Missile Intelligence Agency
U.S. Army Missile Command
Redstone Arsenal, Alabama 35809

Attention: AMSMI-YM

Reference: Contract DAAH01-74-00783

Subject: Monthly Contract Cost and Performance Report No. 6
Covering the Period 1 October through 31 October 1974

Gentlemen:

This is the sixth Monthly Cost and Performance Report under the referenced contract and covers the period 1 October to 31 October 1974.

The cost and performance information as required by data item DI-F-1208A of the referenced contract document is contained in the enclosed Table I entitled "Monthly Cost and Performance Report." The Monthly and cumulative percentages of man-hours expended are calculated on the basis of 4089 man-hours (23.5 man-months at an average of 174 man-hours/man-month) as estimated in Attachment II of Georgia Tech Proposal No. ST-SSD-73-040 entitled "Antenna Analysis of Two Fire Control Radars" (U), dated 16 June 1974.

At this point in the schedule both the remaining man-hours and contract funds are sufficient to successfully complete the work on this research program. There are no outstanding commitments against the referenced contract that are not reflected in the data of Table I.

Respectfully submitted,

Neal T. Alexander, /
Project Director

NTA:jm

Approved:

D. G. Bodnar,
Manager, Electromagnetic Programs Office

Enclosure A/S

TABLE I

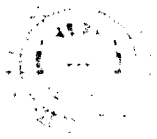
COST AND PERFORMANCE REPORT NO. 6 (through 31 October 1974)
 CONTRACT DAAH01-74-00683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	315.0	\$8,358.23	--
Cumulative Expended/Completed To Date	2,008.4	28,438.03	--
Percent* Expended/Completed During this Month	12.6	14.1	14.1
Cumulative Percent* Expended/Completed To Date	49.1	47.9	47.9

*Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-months at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contracts Funds = \$30,895.97



ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

11 December 1974

Department of the Army
Missile Intelligence Agency
U.S. Army Missile Command
Redstone Arsenal, Alabama 35809

Attention: AMSMI-YM

Reference: Contract DAAH01-74-00783

Subject: Monthly Contract Cost and Performance Report No. 7
covering the Period 1 November through 30 November 1974

Gentlemen:

This is the seventh Monthly Cost and Performance Report under the referenced contract and covers the period 1 November to 30 November 1974.

The cost and performance information as required by data item DI-F-1208A of the referenced contract document is contained in the enclosed Table I entitled "Monthly Cost and Performance Report." The Monthly and cumulative percentages of man-hours expended are calculated on the basis of 4089 man-hours (23.5 man-months at an average of 174 man-hours/man-month) as estimated in Attachment II of Georgia Tech Proposal No. ST-SSD-73-040 entitled "Antenna Analysis of Two Fire Control Radars" (U), dated 16 June 1974.

At this point in the schedule both the remaining man-hours and contract funds are sufficient to successfully complete the work on this research program. There are no outstanding commitments against the referenced contract that are not reflected in the data of Table I.

Respectfully submitted,

Neal T. Alexander, /
Project Director

NTA:jm

TABLE I

COST AND PERFORMANCE REPORT NO. 6 (through 30 November 1974)
CONTRACT DAAH01-74-00683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	396.1	\$6,437.66	---
Cumulative Expended/Completed To Date	2,404.5	34,875.69	--
Percent [*] Expended/Completed During this Month	9.7	10.8	10.8
Cumulative Percent [*] Expended/Completed To Date	58.8	58.8	58.8

* Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-months at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contract Funds = \$24,458.31

A-1631



ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

8 January 1975

Department of the Army
Missile Intelligence Agency
U. S. Army Missile Command
Redstone Arsenal, Alabama 35809

Attention: AMSMI-YM

Reference: Contract DAAH01-74-00783

Subject: Monthly Contract Cost and Performance Report No. 8
covering the period 1 December through 31 December 1974

Gentlemen:

This is the eighth Monthly Cost and Performance Report under the referenced contract and covers the period 1 December to 31 December 1974.

The cost and performance information as required by data item DI-F-1208A of the referenced contract document is contained in the enclosed Table I entitled "Monthly Cost and Performance Report." The Monthly and Cumulative percentages of man-hours expended are calculated on the basis of 4089 man-hours (23.5 man-months at an average of 174 man-hours/man-month) as estimated in Attachment II of Georgia Tech Proposal No. ST-SSD-73-040 entitled "Antenna Analysis of Two Fire Control Radars" (U), dated 16 June 1974.

At this point in the schedule both the remaining man-hours and contract funds are sufficient to successfully complete the work on this research program. There are no outstanding commitments against the referenced contract that are not reflected in the data of Table I.

Respectfully submitted,

Neal T. Alexander, ⁶
Project Director

NTA:jm

TABLE I

COST AND PERFORMANCE REPORT NO. 8 (through 31 December 1974)
 CONTRACT DAAH01-74-00683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	186.2	\$3,567.06	--
Cumulative Expended/Completed To Date	2,590.7	38,442.75	--
Percent* Expended/Completed During this Month	4.6	6.0	6.0
Cumulative Percent* Expended/Completed To Date	63.4	64.8	64.8

* Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-months at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contract Funds = \$20,891.25



ENGINEERING EXPERIMENT STATION

GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

10 February 1975

Department of the Army
Missile Intelligence Agency
U. S. Army Missile Command
Redstone Arsenal, Alabama 35809

Attention: AMSMI-YM

Reference: Contract DAAH01-74-C-0683

Subject: Monthly Contract Cost and Performance Report No. 9
covering the period 1 January through 31 January 1975

Gentlemen:

This is the ninth Monthly Cost and Performance Report under the referenced contract and covers the period 1 January to 31 January 1975.

The cost and performance information as required by data item DI-F-1208A of the referenced contract document is contained in the enclosed Table I entitled "Monthly Cost and Performance Report." The Monthly and Cumulative percentages of man-hours at an average of 174 man-hours/man-month) as estimated in Attachment II of Georgia Tech Proposal No. ST-SSD 73-040 entitled "Antenna Analysis of Two Fire Control Radars" (U), dated 16 January 1974.

At this point in the schedule both the remaining man-hours and contract funds are sufficient to successfully complete the work on this research program. There are no outstanding commitments against the referenced contract that are not reflected in the data of Table I.

Respectfully submitted.

Neal T. Alexander,
Project Director

NTA:jm

TABLE I

COST AND PERFORMANCE REPORT NO. 9 (through 31 January 1975)
 CONTRACT DAAH01-74-C-0683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	407.2	\$6,689.65	--
Cumulative Expended/Completed To Date	2,997.9	45,132.40	--
Percent* Expended/Completed During this Month	10.0	11.3	11.3
Cumulative Percent* Expended/Completed To Date	73.3	76.1	76.1

* Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-hours at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contract Funds = \$14,201.60



ENGINEERING EXPERIMENT STATION
GEORGIA INSTITUTE OF TECHNOLOGY • ATLANTA, GEORGIA 30332

10 March 1975

Department of the Army
Missile Intelligence Agency
U. S. Army Missile Command
Redstone Arsenal, Alabama 35809

Attention: AMSMI-YM

Reference: Contract DAAH01-74-C-0683

Subject: Monthly Contract Cost and Performance Report No. 10
covering the period 1 February through 28 February 1975

Gentlemen:

This is the tenth Monthly Cost and Performance Report under the referenced contract and covers the period 1 February to 28 February 1975.

The cost and performance information as required by data item DI-F-1208A of the referenced contract document is contained in the enclosed Table I entitled "Monthly Cost and Performance Report." The Monthly and Cumulative percentages of man-hours expended are calculated on the basis of 4089 man-hours (23.5 man-months at an average of 174 man-hours/man-month) as estimated in Attachment II of Georgia Tech Proposal No. ST-SSD 73-040 entitled "Antenna Analysis of Two Fire Control Radars"(U), dated 16 January 1974.

At this point in the schedule both the remaining man-hours and contract funds are sufficient to successfully complete the work on this research program. There are no outstanding commitments against the referenced contract that are not reflected in the data of Table I.

Respectfully submitted,

Neal T. Alexander,
Project Director

NTA:jm

TABLE I

COST AND PERFORMANCE REPORT NO. 10 (through 28 February 1975)
 CONTRACT DAAH01-74-C-0683

	Man-Hours	Funds	Work
Total Expended/Completed During this Month	225.3	\$4,276.81	--
Cumulative Expended/Completed To Date	3,223.2	49,409.21	--
Percent [*] Expended/Completed During this Month	5.5	7.2	7.2
Cumulative Percent [*] Expended/Completed To Date	78.8	83.3	83.3

* Percentages are calculated on the premise that a total of 4089 man-hours will be expended. (Resulting from a proposed 23.5 man-months at an average of 174 man-hours/man-month).

Total Contract Funds = \$59,334.00

Total Remaining Contract Funds = \$ 9,924.79