JECORGIA INSTITUTE OF TECHNI	DLOGY	OFFICE OF CONTRACT ADMINISTRATION
P	ROJECT ADMINISTRATIC	ON DATA SHEET
		X ORIGINAL REVISION NO.
Project NoA-3474		STRI/GITX DATE 3/30/83
Project Director: Mark Str	ickland	Suzzki ab EML/HO
Sponsor: U. S. Army Missi	le Command; Redstone Ar	
Sponsor		
Type Agreement: Delivery Or	der No. 0003 under Cont	ract DAAH01-83-D-A013
Award Pariod: From 2/1/8	3 To 9/30/83	(Performance) 11/30/83 (Reports)
Sponsor Amount: Total Estimated: S	<u>\$</u> 220,000	Funded: S 220,000
Cost Sharing Amount: \$ Non.e		Cost Sharing No:
Title. System Integration	Office Project Missile	e System Evaluation
••••••••••••••••••••••••••••••••••••••		,
ADMINISTRATIVE DATA	OLA Contact	Frank H. Huff
1) Sponsor Technical Contact: Dr. M. M. Hallum		2) Sponsor Admin/Contractual Matters: Mr. Thomas A. Bryant
Systems Simulation & De	ev. Directorate	Office of Naval Research
US Army Missile Command		Room 206, O'Keefe Bldg.
US Army Missile Laborato)ry	
ATTN; DRSMI-RDF		<u>Georgia Institute of Technology</u> Atlanta, Georgia 30332
Redstone Arsenal, AL 358	398	
Defense Priority Rating:DO-		Military Security Classification: Unclassified (general Company/Industrial Proprietary: Scope of work)
RESTRICTIONS		
See AttachedGov't	Supplemental Informatic	on Sheet for Additional Requirements.
Travel: Foreign travel must have p	rior approval – Contact OCA in	each case. Domestic travel requires sponsor
approval where total will e. fictions on re-budgeting tr Equipment: Title yests with	xceed greater of \$500 or 125% cavel funds: (2) C-2(f) (1) B-2(c)	of approved proposal budget category. See additional to (page 4 of basic agreement) (page 3 of basic agreement)
Government; except that :	items costing less than	\$1,000 vest with GIT if prior approval to
purchase is obtained from	n the Contracting Offic	er.
COMMENTS:		
		dressed to Administrative Contracting
	ler, US Army Missile Co	mmand, Attn: DRSMI-ICD, Redstone
Arsenal, AL 35898		
		
COPIES TO:		
Research Administrative Network	Research Security Services	Research Communications (2)
Research Property Management	-Reports Coordinator (OCA)	Project File
Accounting Producement/FES Supply Services	GTRI Library	Other /
8 ABY 7 2722 7 7 1000		

GEORGIA INSTITUTE OF TECHNOLOGY

1	
SPONSORED PROJECT TERMINAT	ION/CLOSEOUT SHEET
	Date October 26, 1983
Project No A-3474	SERECTARIA EML
Includes Subproject No.(s)	
Project Director(s) Mark Strickland	GTRIZONA
Sponsor U. S. Army Missile Comman	nd
Title: System Integration Office Project Mis	sile System Evaluation
	π.
Effective Completion Date:9/30/83	(Performance) <u>11/30/83</u> (Reports)
Grant/Contract Closeout Actions Remaining:	
None	х
X Final Invoice confirmation	
Closing Documents	
X Final Report of Inventions	
Frank and a second s	rtificate
Classified Material Certificate	τ. Γ
Other	
Continues Project No.	
Continued by Project No.	
COPIES TO:	
Project Director Research Administrative Network Research Property Management Accounting Procurement/EES Supply Services Research Security Services Reports Coordinator (OCA)	Library GTRI Research Communications (2) Project File Other
Form OCA 58:1004	

Monthly Technical Report No. 1 and Monthly Cost and Performance Report No. 1

> Report Period February 1 to February 28, 1983

> > Report Prepared April 22, 1983

M. A. Strickland

Contract No. DAAH01-83-D-A013 Delivery Order No. 0003 Project No. A-3474

Effective Date: 02/01/83 Expiration Date: 09/31/83

Prepared for

U. S. Army Missile Command Attn: DRSMI-ICDB/Glass Redstone Arsenal, Alabama 35898

Prepared by

Data from Entries 1 and 2 of Phase IV testing were processed and analyzed. The draft copy of Entry 1 report was written.

PROBLEMS ENCOUNTERED

None

WORK TO BE DONE

Complete Entry 1 Report and prepare the draft for Entry 2.

The following charges have been incurred against the contract during the period March 1 through March 31, 1983.

	Expended		umbered
Personal Services (PS)	\$ 8,883.63	\$	-0-
Fringe Benefits	1,068.96		-0-
Materials and Supplies	-0-		-0-
Travel	-0-		-0-
Subtotal	\$10,759.52	\$	-0-
Equipment	-0-		-0-
Overhead (at 47.2% of Subtotal)	5,078.49		-0-
TOTAL	\$15,838.01	\$	-0-

The breakdown of personal services is as follows:

	Dollars	Approximate Manhours
Principal Research Scientists/Engineers	\$ -0-	-0-
Senior Research Scientists/Engineers	5,986.65	148
Research Scientists II/Engineers II	-0-	-0-
Research Scientists I/Engineers I	2,426.22	93
Technicians/Draftsmen	-0-	-0-
Students	312.00	31
Secretarial/Clerical/Other	158.76	11
TOTAL	\$8,883.63	283

The current financial status of the contract is as follows:

	Budget As Proposed	Expended	Encu	mbered	Free Balance
Personal Services	\$124,054.00	\$8,883.63	\$	-0-	\$115,170.37
Fringe Benefits	23,075.00	1,875.89		-0- -0-	21,199.11 290.00
Materials and Supplies Travel		-0-		-0-	
	2,038.00	-0-		-0-	2,038.00
Equipment Overhead	v	Ũ		-0-	v
overnead	70,543.00	5,078.49		-0-	65,464.51
FUNDING	\$220,000.00	\$15,838.01	\$	-0-	\$204,161.99

Based on present full funding, the funding and equivalent manhours are sufficient to complete the task. Approximately 10% of the proposed task has been completed.

Monthly Technical Report No. 2 and Monthly Cost and Performance Report No. 2

> Report Period March 1 through March 31, 1983

> > Report Prepared April 22, 1983

M. A. Strickland

Contract No. DAAH01-83-D-A013 Delivery Order No. 0003 Project No. A-3474

Effective Date: 02/01/83 Expiration Date: 09/31/83

Prepared for

U. S. Army Missile Command Attn: DRSMI-ICDB/Glass Redstone Arsenal, Alabama 35898

Prepared by

Entry 1 report was completed and submitted and the draft of Entry 2 report was typed. Checkout of the analytic simulation was started.

PROBLEMS ENCOUNTERED

None

WORK TO BE DONE

Complete report from Entry 2. Complete checkout of the analytic simulation and begin productive runs.

The following charges have been incurred against the contract during the period February 1 through February 28, 1983.

	Expended	Encu	mbered
Personal Services (PS)	\$28,975.94	\$	-0-
Fringe Benefits	5,438.60		-0-
Materials and Supplies	-0-		-0-
Travel	12.00		-0-
Subtotal	\$34,426.62	\$	-0-
Equipment	-0-		-0-
Overhead (at 47.2% of Subtotal)	16,249.37		-0-
TOTAL	\$50,675.99	\$	-0-

The breakdown of personal services is as follows:

	Dollars	Approximate Manhours
Principal Research Scientists/Engineers	\$ -0-	-0-
Senior Research Scientists/Engineers	9,434.18	234
Research Scientists II/Engineers II	4,922.61	153
Research Scientists I/Engineers I	11,063.34	422
Technicians/Draftsmen	-0-	-0-
Students	2,915.20	291
Secretarial/Clerical/Other	640.61	45
TOTAL	\$28,975.94	1145

The current financial status of the contract is as follows:

	Budget As Proposed	Expended	Encumbered		Free Balance
Personal Services Fringe Benefits Materials and Supplies Travel Equipment Overhead	\$124,054.00 23,075.00 290.00 2,038.00 -0- 70,543.00	\$37,859.57 7,314.57 -0- 12.00 -0- 21,327.86	\$	-0- -0- -0- -0- -0-	\$86,194.43 15,760.43 290.00 2,026.00 -0- 49,215.14
FUNDING	\$220,000.00	\$66,514.00	\$	-0-	\$153,486.00

Based on present full funding, the funding and equivalent manhours are sufficient to complete the task. Approximately 30% of the proposed task has been completed.

LIBRARY DOES NOT HAVE

Monthly Technical Report No. 3 and Monthly Cost and Performance Report No. 3, April 1 through April 30, 1983 Monthly Technical Report No. 4 and Monthly Cost and Performance Report No. 4

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Report Period May 1 through May 31, 1983

> Report Prepared June 16, 1983

M. A. Strickland

Contract No. DAAH01-83-D-A013 Delivery Order No. 0003 Project No. A-3474

Effective Date: 02/01/83 Expiration Date: 09/30/83

Prepared for

U. S. Army Missile Command Attn: DRSMI-ICDB/Glass Redstone Arsenal, Alabama 35898

Prepared by

Checkout of the analytic simulation was completed. Four types of analytic simulation runs were demonstrated. Worked on Phase III Summary Report draft.

PROBLEMS ENCOUNTERED

None

WORK TO BE DONE

Complete analytic simulation production runs. Complete draft of the Phase III Summary Report. Prepare briefing for the project office.

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GT/EES Project A-3474

The following charges have been incurred against the contract during the period May 1 through May 31, 1983.

	Expended		cumbered
Personal Services (PS)	\$20,094.28	\$	-0-
Fringe Benefits	3,337.30		-0-
Materials and Supplies	103.45		40.05
Travel	-0-		-0-
Subtotal	\$23,535.03	\$	-0-
Equipment	-0-		-0-
Overhead (at 47.2% of Subtotal)	11,108.53		-0-
TOTAL	\$34,643.56	\$	40.05

The breakdown of personal services is as follows:

	Dollars	Approximate Manhours
Principal Research Scientists/Engineers Senior Research Scientists/Engineers	\$ 3,988.95 6,851.68	133 282
Research Scientists II/Engineers II Research Scientists I/Engineers I	370.22	19 108
Technicians/Draftsmen	-0-	-0-
Students Secretarial/Clerical/Other TOTAL	5,641.481,544.23 $$20,094.28$	822 181 1545

The current financial status of the contract is as follows:

	Budget As Proposed	Expended	Enc	umbered	Free Balance
Personal Services Fringe Benefits Materials and Supplies Travel Equipment Overhead	\$124,054.00 23,075.00 290.00 2,038.00 -0- 70,543.00	\$98,269.14 18,351.94 978.45 1,072.66 -0- 56,013.27	\$	-0- -0- 40.05 -0- -0- -0-	\$25,784.86 4,723.06 (688.45) 965.34 -0- 14,529.73
FUNDING	\$220,000.00	\$174,685.46	\$	40.05	\$45,314.54

Based on present full funding, the funding and equivalent manhours are sufficient to complete the task. Approximately 79% of the proposed task has been completed.

Monthly Technical Report No. 5 and Monthly Cost and Performance Report No. 5

> Report Period June 1 through June 30, 1983

> > Report Prepared July 26, 1983

M. A. Strickland

Contract No. DAAH01-83-D-A013 Delivery Order No. 0003 Project No. A-3474

Effective Date: 02/01/83 Expiration Date: 09/30/83

Prepared for

U. S. Army Missile Command Attn: DRSMI-ICDB/Glass Redstone Arsenal, Alabama 35898

Prepared by

Approximately 200 analytic simulation runs were completed. Work continued on Phase III Summary Report draft. A project office briefing was given on June 8. Results from FY83 and plans for FY84 were discussed.

PROBLEMS ENCOUNTERED

None

WORK TO BE DONE

Complete analytic simulation production runs. Complete draft of the Phase III Summary Report. Complete plans and statement of work for FY84.

The following charges have been incurred against the contract during the period June 1 through June 30, 1983.

	Expended	Encumbered
Personal Services (PS)	\$ 5,225.71	\$ -0-
Fringe Benefits	319.60	-0-
Materials and Supplies	6.40	-0-
Travel	12.00	-0-
Subtotal	\$ 5,563.71	\$ -0-
Equipment	-0-	-0-
Overhead (at 47.2% of Subtotal)	2,626.07	-0-
TOTAL	\$ 8,189.78	\$ -0-

The breakdown of personal services is as follows:

	Dollars	Approximate Manhours
Principal Research Scientists/Engineers	\$ -0-	-0-
Senior Research Scientists/Engineers	-0-	-0-
Research Scientists II/Engineers II	-0-	-0-
Research Scientists I/Engineers I	-0-	-0-
Technicians/Draftsmen	-0-	-0-
Students	3,963.36	579
Secretarial/Clerical/Other	1,262.35	158
TOTAL	\$ 5,225.71	737

The current financial status of the contract is as follows:

	Budget As Proposed	Expended	Encu	mbered	Free Balance
Personal Services Fringe Benefits Materials and Supplies Travel Equipment Overhead	\$124,054.00 23,075.00 290.00 2,038.00 -0- 70,543.00	\$103,494.85 18,671.54 984.85 1,084.66 -0- 58,639.34	\$	-0- -0- -0- -0- -0- -0-	\$20,559.15 4,403.46 (694.85) 953.34 -0- 11,903.66
FUNDING	\$220,000.00	\$182,875.24	\$	-0-	\$37,124.76

Based on present full funding, the funding and equivalent manhours are sufficient to complete the task. Approximately 83% of the proposed task has been completed.

Monthly Technical Report No. 6 and Monthly Cost and Performance Report No. 6

> Report Period July 1 through July 31, 1983

> > Report Prepared August 19, 1983

M. A. Strickland

Contract No. DAAH01-83-D-A013 Delivery Order No. 0003 Project No. A-3474

Effective Date: 02/01/83 Expiration Date: 09/30/83

Prepared for

U. S. Army Missile Command Attn: DRSMI-ICDB/Glass Redstone Arsenal, Alabama 35898

Prepared by

Over 100 additional analytic simulation runs were completed. Typing was started on the Phase III Summary Report. Planning for FY84 continued, and the statement of work was submitted.

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PROBLEMS ENCOUNTERED

None

WORK TO BE DONE

Complete the first phase of the analytic simulation production runs. Complete and submit the summary report.

The following charges have been incurred against the contract during the period July 1 through July 31, 1983.

	Expended		umbered
Personal Services (PS) Fringe Benefits	\$ 5,046.77 632.97	\$	-0- -0-
Materials and Supplies	1.20		-0- -0-
Travel Subtotal	\$ 5,680.94	\$	-0-
Equipment Overhead (at 49.4% of Subtotal)	-0- 2,806.38		-0-
TOTAL	\$ 8,487.32	\$	-0-

The breakdown of personal services is as follows:

	Dollars	Approximate Manhours
Principal Research Scientists/Engineers	\$ - 0-	-0-
Senior Research Scientists/Engineers	2,225.25	88
Research Scientists II/Engineers II	-0 -	-0-
Research Scientists I/Engineers I	-0 -	-0-
Technicians/Draftsmen	-0 -	-0-
Students	2,421.47	338
Secretarial/Clerical/Other	400.05	46
TOTAL	\$ 5,046.77	472

The current financial status of the contract is as follows:

	Budget As Proposed	Expended	Encumbered		Free Balance
Personal Services Fringe Benefits Materials and Supplies Travel Equipment Overhead	\$124,054.00 23,075.00 290.00 2,038.00 -0- 70,543.00	\$108,541.62 19,304.51 986.05 1,084.66 -0- 61,445.72	\$	-0 - -0 - -0 - -0 - -0 - -0 -	\$15,512.38 3,770.49 (696.05) 953.34 -0- 9,097.28
FUNDING	\$220,000.00	\$191,362.56	\$	-0 -	\$28,637.44

Based on present full funding, the funding and equivalent manhours are sufficient to complete the task. Approximately 88% of the proposed task has been completed.

Monthly Technical Report No. 7 and Monthly Cost and Performance Report No. 7

> Report Period August 1 through August 31, 1983

> > Report Prepared September 12, 1983

M. A. Strickland

Contract No. DAAH01-83-D-A013 Delivery Order No. 0003 Project No. A-3474

Effective Date: 02/01/83 Expiration Date: 09/30/83

Prepared for

U. S. Army Missile Command Attn: DRSMI-ICDB/Glass Redstone Arsenal, Alabama 35898

Prepared by

Over 200 analytic simulation runs were completed. Typing of the Phase III Summary Report was completed and the review of the document started. Documentation of the real-time simulation program was completed and the report typed. Planning for FY-84 test equipment evaluation was started.

PROBLEMS ENCOUNTERED

None.

WORK TO BE DONE

Complete and submit the Phase III summary report. Complete planning for the test equipment evaluation. Document the analytic simulation program and the results from the first phase of production runs.

GT/EES Project A-3474

The following charges have been incurred against the contract during the period August 1 through August 31, 1983.

	Expended		umbered
Personal Services (PS)	\$ 2,574.16	\$	-0-
Fringe Benefits	61.82		-0-
Materials and Supplies	1.20		-0-
Travel	980.72		-0-
Subtotal	\$ 3,617.90	\$	-0-
Equipment	-0-		-0-
Overhead (at 49.4% of Subtotal)	1,787.24		-0-
TOTAL	\$ 5,405.14	\$	-0-

The breakdown of personal services is as follows:

	Dollars	Approximate Manhours
Principal Research Scientists/Engineers	\$ -0-	-0-
Senior Research Scientists/Engineers	-0-	-0-
Research Scientists II/Engineers II	-0-	-0-
Research Scientists I/Engineers I	-0-	-0-
Technicians/Draftsmen	-0-	-0-
Students	2,142.60	299
Secretarial/Clerical/Other	431.56	50
TOTAL	\$ 2,574.16	349

The current financial status of the contract is as follows:

	Budget As Proposed	Expended	Encumbered		Free Balance
ersonal Services ringe Benefits aterials and Supplies ravel quipment verhead	\$124,054.00 23,075.00 1,213.20 2,038.00 -0- 70,543.00	\$111,115.78 19,366.33 987.25 2,065.38 -0- 63,232.96	\$	-0 - -0 - -0 - -0 - -0 - -0 -	\$12,938.22 3,708.67 225.95 (27.38) -0- 7,310.04
FUNDING	\$220,000.00	\$196,767.70	\$	-0-	\$23,232.30

Based on present full funding, the funding and equivalent manhours are sufficient to propert the task. Approximately 90% of the proposed task has been completed.

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The following charges have been incurred against the contract during the period September 1 through September 30, 1983.

	Expended		cumbered
Personal Services (PS)	\$ 3,087.07	\$	-0-
Fringe Benefits	213.76		-0-
Materials and Supplies	99.45		45.00
Travel	102.57		-0-
Subtotal	\$ 3,502.85	\$	45.00
Equipment	-0 -		-0-
Overhead (at 49.4% of Subtotal)	1,718.12		-0-
TOTAL	\$ 5,220.97	\$	45.00

The breakdown of personal services is as follows:

	Dollars	Approximate <u>Manhours</u>
Principal Research Scientists/Engineers	\$ -0-	-0 -
Senior Research Scientists/Engineers	-0 -	-0-
Research Scientists II/Engineers II	-0 -	-0-
Research Scientists I/Engineers I	-0-	-0 -
Technicians/Draftsmen	-0 -	-0-
Students	2,027.40	283
Secretarial/Clerical/Other	604.03	70
TOTAL	\$ 2,631.43	353

The current financial status of the contract is as follows:

	Budget As Proposed	Expended	Enc	umbered	Free Balance
Personal Services Fringe Benefits Materials and Supplies Travel Equipment Overhead	\$123,130.80 23,075.00 1,213.20 2,038.00 -0- 70,543.00	\$114,202.85 19,580.09 1,086.70 2,167.95 -0- 64,951.08	\$	-0- -0- 45.00 -0- -0- -0-	\$ 8,927.95 3,494.91 81.50 (129.95) -0- 5,591.92
FUNDING	\$220,000.00	\$201,988.67	\$	45.00	\$17,966.33

Based on present full funding, the funding and equivalent manhours are sufficient to complete the task. Approximately 93% of the proposed task has been completed.

Planning for the FY 84 activity continued. A total of 12 weeks of RFSS testing is planned. Approximately 100 additional analytic simulation runs were made. The Phase III Summary Report and the Real-Time Simulation Program Report were submitted.

PROBLEMS ENCOUNTERED

None.

WORK TO BE DONE

Document the analytic simulation program and the results from the first phase of production runs. Plan details for the first two RFSS entries.