

WMRES  
WM Record File  
D-1016  
ITASCA

WM Project 10, 11, 16  
Docket No. \_\_\_\_\_  
PDR  \_\_\_\_\_  
LPDR EWS \_\_\_\_\_

D-1016 PDR  
LPDR - WM-10(2)  
WM-11(2)  
WM-16(2)



Distribution: Jean Tink  
Tiktinsky  
(Return to WM, 623-SS)  
JAN 27 A9:40

19 January 1987

David Tiktinsky - SS623  
U.S. Nuclear Regulatory Commission  
Division of Waste Management  
Washington, D.C. 20555

"NRC Technical Assistance  
for Design Reviews"  
Contract No. NRC-02-85-002  
FIN D1016

Dear David:

Enclosed is Progress Report No. 17 for the period 1-31 December 1986 on Task Orders No. 001, 002, 003 and 004, Contract NRC-02-85-002. Also enclosed is the summary sheet for the December voucher. Please call me if you have any questions.

Sincerely,

*Roger D Hart*  
Roger D. Hart  
Program Manager

cc: J. Greeves, Engineering Branch  
Office of the Director, NMSS  
E. Wiggins, Division of Contracts  
DWM Document Control Room

Encl.  
rdh/ks

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D-1016 PDR

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## ITASCA MONTHLY PROGRESS REPORT

Progress Report No. 17  
NRC Technical Assistance  
for Design Reviews

19 January 1987  
Contract No. NRC-02-85-002

Reporting Period: 1 - 31 December 1986

### 1. INTRODUCTION

This progress report summarizes the work performed during December 1986 on NRC Contract No. NRC-02-85-002. During December, work progressed on Task Orders No. 001, 002, 003, and 004.

### 2.0 ACTIVITIES DURING THE REPORTING PERIOD

- A. The draft of "Suggested Review Approach to In-Situ Testing at Yucca Mountain (Section 8.3.3, Planned Tests, Analyses, and Studies - Seal System Program)" was transmitted to D. Gupta on 1 December (Task Order No. 002).
- B. From 9 to 11 December, J. Daemen attended an NNWSI Appendix VII Visit in Las Vegas. The trip report was submitted on 30 December (Task Order No. 001).
- C. The draft of "List of Major Underground Structures, Systems, and Components for a High-Level Nuclear Waste Repository at NNWSI" was sent to D. Gupta on 10 December (Task Order No. 003).
- D. On 12 December, authorization was received from D. Tiktinsky to perform the following tasks:
  - (1) attendance at an Appendix VII Visit for NNWSI in Las Vegas, 8-11 December (Task Order No. 001);
  - (2) attendance at a DOE briefing in Richland, Washington, 8-9 January 1987 (Task Order No. 001);
  - (3) attendance at a meeting in Silver Spring to discuss thermomechanical modeling, 12-16 January 1987 (Task Order No. 002); and

(4) attendance at a meeting in Silver Spring to discuss the NNWSI in-situ testing point paper, 18-19 December (Task Order No. 002).

- E. Progress Report No. 16 and Invoice No. 016-86-128 were transmitted to NRC on 16 December.
- F. On 19 December, "Computer Operational System Requirements Report" was transmitted to D. Tiktinsky (Task Order No. 004).
- G. J.Daemen and L. Lorig attended a review meeting of NNWSI tasks in Silver Spring on 18 December (Task Orders No. 002 and 003).
- H. The Task Order 004 authorization letter was received from M. Little (authorization from E. Wiggins dated 18 December).

### 3.0 RESULTS

#### A. Documents Submitted in December:

- (1) Draft "Suggested Review Approach to In-Situ Testing at Yucca Mountain (Section 8.3.2, Planned Tests, Analyses, and Studies - Seal System Program)" (Task Order No. 002)
- (2) Draft "List of Major Underground Structures, Systems, and Components for a High-Level Nuclear Waste Repository at NNWSI" (Task Order No. 003)
- (3) "Computer Operational System Requirements" (Task Order No. 004)

Professional Labor:            R. Hart                    6 hours

#### B. Works in Progress

- (1) FLAC parametric studies (Task Order No. 001)

Professional Labor:            M. Mack                    3 hours

- (2) verification of thermal analysis capabilities in FLAC and MUDEC (Task Order No. 002)

Professional Labor            R. Hart                    4 hours  
   M. Mack                    37 hours

- (3) site technical position on in-situ testing at NNWSI (Task Order No. 002)

Professional Labor	J. Daemen	6 hours
	L. Lorig	14 hours

- (4) site technical position on in-situ testing at BWIP (Task Order No. 002)

Professional Labor	M. Board	20 hours
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- (5) rockburst potential at BWIP point paper (Task Order No. 003)

Professional Labor	M. Board	24 hours
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- (6) identification and prioritization of major underground system components for NNWSI (Task Order No. 003)

Professional Labor	J. Daemen	2.5 hours
	L. Lorig	2.0 hours

- (7) development of creep model for FLAC (Task Order No. 004)

Professional Labor	P. Cundall	48 hours
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#### 4.0 QUALITY ASSURANCE

Correspondence logs were monitored and updated. NNWSI and SRP documents were received and catalogued.

#### 5.0 DIFFICULTIES

No specific difficulties were experienced during this reporting period.

6.0 ACTIVITIES PLANNED FOR THE NEXT REPORTING PERIOD

A. The following reports will be completed and submitted in January:

- (1) draft point paper on rockburst potential at BWIP (Task Order No. 003); and
- (2) final report on site technical position for in-situ testing at BWIP (Task Order No. 002);

B. Work will continue on preparation of the following tasks:

- (1) verification of thermal analysis capabilities in FLAC and MUDEC (Task Order No. 002)
- (2) site technical position on in-situ testing at NNWSI (Task Order No. 002);
- (3) identification and prioritization of major underground system components for NNWSI (Task No.003).

C. Meetings planned for the next reporting period:

R. Hart and M. Mack are to attend a 12-16 January 1987 meeting in Silver Spring to discuss thermomechanical modeling (Task Oder No. 002).

7.0 MEETINGS/TRIPS DURING THE REPORTING PERIOD

- (1) J. Daemen attended an Appendix VII site visit in Las Vegas, 9-11 December (Task Order No. 001)

J.Daemen	24 hours
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- (2) L. Lorig and J. Daemen attended a meeting in Silver Spring on 30 December to discuss NNWSI reports

J. Daemen	16 hours*
L. Lorig	8 hours**

\*Daemen labor charged to Task Order No. 003.

\*\*Lorig labor split equally between Task Order Nos. 002 and 003.

8.0 SCHEDULE AND COST PROJECTION

The billing summary for the December invoice is attached. Costs are well within the limit authorized for all four task orders.

Respectfully submitted,

Roger D. Hart

Roger D. Hart  
Program Manager  
19 January 1987

Attach.  
rdh/ks

Jan-87  
 TASK ORDER 001  
 TASK 2

TASK LABOR SUMMARY

REVIEW OF DOCUMENTS

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	96	40	56
ADMIN MGR	120	98	22
SR. ENGINEER	980	643.5	336.5
ASST. ENGINEER	300	3	297
SR. REVIEWER	48	0	48
QA	48	17	31
SECRETARIAL	200	262.5	-62.5
<b>TOTAL ITASCA</b>	<b>1792</b>	<b>1064</b>	<b>728</b>
<b>CONSULTANT</b>			
J. DAEMEN	168	172	-4
I. FARMER	88	80	8
ASST. ENGINEER	208	0	208
R. BARNES	0	20	-20
K. WAHI	0	74	-74
R. RAJARAM	0	50	-50
<b>TOTAL CONSULT</b>	<b>464</b>	<b>396</b>	<b>68</b>
<b>SUBCONTRACTOR-NWC</b>			
PRIN. INVEST.	256	90	166
SR ENGINEER	144	0	144
ENGINEER/GEOL	208	31.5	176.5
DRAFTING	0	2	-2
CLERICAL	100	58.5	41.5
<b>TOTAL SUBCONT</b>	<b>708</b>	<b>182</b>	<b>526</b>
<b>TOTAL TASK</b>	<b>2964</b>	<b>1642</b>	<b>1322</b>

Jan-87  
 TASK ORDER 001  
 TASK 4

TASK LABOR SUMMARY

TECHNICAL MEETINGS

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	62	37	25
ADMIN MGR	76	76.5	-0.5
PRIN. INVEST.	588	33	555
SR. ENGINEER	1108	372	736
SR REVIEW	0	24	-24
QA	32	13	19
SECRETARIAL	148	97.5	50.5
-----			
TOTAL ITASCA	2014	653	1361

CONSULTANT

J. DAEMEN	588	176	412
I. FARMER	104	61	43
K. WAHI	0	109	-109
R. RAJARAM	0	30	-30
Y. KIM	0	80	-80
-----			
TOTAL CONSULT	692	456	236

SUBCONTRACTOR-NWC

PRIN. INVEST.	588	147	441
CLERICAL	44	28	16
-----			
TOTAL SUBCONT	632	175	457

=====			
TASK TOTAL	3338	1284	2054
=====			
TASK ORDER TOT	6545	2950.5	3594.5
=====			

Jan-87  
 TASK ORDER 002  
 TASK 1

TASK LABOR SUMMARY

SITE SPECIFIC IN-SITU TESTING POINT PAPERS

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	72	11	61
ADMIN MGR	96	37.5	58.5
SR. ENGINEER	872	534.5	337.5
SR REVIEW	12	12	0
QA	48	6.5	41.5
SECRETARIAL	126	81	45
<b>TOTAL ITASCA</b>	<b>1226</b>	<b>682.5</b>	<b>543.5</b>
<b>CONSULTANT</b>			
J. DAEMEN	72	36	36
I. FARMER	40	0	40
K. WAHI	72	0	72
<b>TOTAL CONSULT</b>	<b>184</b>	<b>36</b>	<b>148</b>
<b>SUBCONTRACTOR-NWC</b>			
PRIN. INVEST.	72	37	35
ASST. PROF.	0	4	-4
CLERICAL	8	18	-10
<b>TOTAL SUBCONT</b>	<b>80</b>	<b>59</b>	<b>21</b>
<b>TASK TOTAL</b>	<b>1306</b>	<b>741.5</b>	<b>564.5</b>

Jan-87  
 TASK ORDER 002  
 TASK 2

TASK LABOR SUMMARY

THERMOMECHANICAL ANALYSES

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	54	19	35
ADMIN MGR	72	41.5	30.5
SR. ENGINEER	592	353	239
ASST. ENGINEER	320	511	-191
SR REVIEW	88	0	88
QA	16	7	9
SECRETARIAL	112	191.5	-79.5
	-----	-----	-----
TOTAL ITASCA	1254	1123	131
CONSULTANT			
	-----		
J. DAEMEN	0	24	-24
K. WAHI	80	85	-5
	-----	-----	-----
TOTAL CONSULT	80	85	-5
	=====	=====	=====
TASK TOTAL	1334	1208	126
	=====	=====	=====
TASK ORDER TOT	2640	1949.5	690.5

Jan-87  
 TASK ORDER 003  
 TASK 1 ROCKBURST POTENTIAL AT BWIP

TASK LABOR SUMMARY

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	8	0	8
ADMIN MGR	16	10	6
SR. ENGINEER	160	117	43
SR REVIEW	16	0	16
QA	6	0	6
SECRETARIAL	36	14	22
	-----	-----	-----
TOTAL ITASCA	242	141	101
SUBCONTRACTOR-NWC			
	-----		
PRIN. INVEST.	40	0	40
SR ENGINEER	24	0	24
CLERICAL	8	0	8
	-----	-----	-----
TOTAL SUBCONT	72	0	72
	=====	=====	=====
TASK TOTAL	314	141	173

Jan-87

TASK LABOR SUMMARY

TASK ORDER 003

TASK 2 IDENTIFICATION AND PRIORITIZATION OF MAJOR  
UNDERGROUND SYSTEM DESIGN COMPONENTS FOR NNWSI

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	6	2	4
ADMIN MGR	12	8	4
SR. ENGINEER	80	16.5	63.5
QA	4	2	2
SECRETARIAL	20	20	0
	-----	-----	-----
TOTAL ITASCA	122	48.5	73.5
CONSULTANT			
-----			
J. DAEMEN	80	18.5	61.5
	-----	-----	-----
	80	18.5	61.5
	=====	=====	=====
TASK TOTAL	202	67	135
	=====	=====	=====
TASK ORDER TOT	516	208	308

Jan-87  
TASK ORDER 004

TASK LABOR SUMMARY

TASK 1 THERMOMECHANICAL MODELING FOR SRP, BWIP AND NNWSI

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	20	0	20
ADMIN MGR	20	0	20
SR. ENGINEER	40	6	34
ASST ENGINEER	120	0	120
ASSOC./REVIEWER	120	48	72
QA	8	0	8
SECRETARIAL	12	2.5	9.5
	-----	-----	-----
TOTAL ITASCA	340	56.5	283.5
	=====	=====	=====
TASK TOTAL	340	56.5	283.5
	=====	=====	=====
TASK ORDER TOT	340	56.5	283.5

VOUCHER

Payor's Name and Address

U.S. Nuclear Regulatory Commission  
Division of Accounting  
Office of the Controller  
ATTENTION: GOV/COM Accounts Section  
Washington, D.C. 20555

Payee's Name and Address

Itasca Consulting Group, Inc.  
P.O. Box 14806  
Minneapolis, Minnesota 55414

(a) Contract Number: NRC-02-85-002  
(b) Title of Project: Technical Assistance  
for Design Reviews of High-Level Waste  
Geologic Repositories  
(c) Voucher Number: 017-87-003  
(d) Date of Voucher: January 14, 1987  
(e) Contract Amount: \$1,312,270.80  
(f) Fixed Fee: \$ 104,981.66

Individual to contact:

John J. Markham (612-623-9599)

(g) This voucher represents reimburseable costs from December 1 thru December 31, 1986

AMOUNT BILLED

	(k) <u>Current Period</u>	(l) <u>Inception to Date</u>
(h) <u>DIRECT COSTS</u>		
(1) Direct Labor	<u>\$ 5,221.84</u>	<u>\$ 68,474.91</u>
(2) Materials, Supplies and Noncapitalized Equipment	<u>-</u>	<u>-</u>
(3) Consultants	<u>3,445.61</u>	<u>70,992.02</u>
(4) Travel - Domestic	<u>523.56</u>	<u>14,350.52</u>
(5) Subcontract	<u>-</u>	<u>27,940.13</u>
(6) Other Costs	<u>244.20</u>	<u>4,232.65</u>
TOTAL DIRECT COSTS	<u>9,435.21</u>	<u>185,990.23</u>
(i) <u>INDIRECT COSTS</u>		
G & A Expense 106% of Cost Element (1)	<u>5,535.15</u>	<u>72,583.41</u>
TOTAL DIRECT AND INDIRECT COSTS	<u>14,970.36</u>	<u>258,573.64</u>
(j) FIXED-FEE EARNED	<u>1,197.63</u>	<u>20,685.87</u>
(m) TOTAL AMOUNTS CLAIMED	<u>16,167.99</u>	<u>279,259.51</u>
(n) ADJUSTMENTS	<u>-</u>	<u>-</u>
(o) GRAND TOTALS	<u>\$ 16,167.99</u>	<u>\$ 279,259.51</u>

SUPPORTING INFORMATION

TASK ORDER-001  
 TASK 2 DOCUMENT REVIEWS  
 (h) DIRECT COSTS

(1) Direct Labor		Hours			
Labor Category	Name	Billed	Rate		Total
<hr/>					
Admin. Manager	L. Gaarder	1.0	\$8.25		\$8.25
	J. Markham	3.0	\$24.04		\$72.12
Asst. Engineer	M. Mack	3.0	\$12.00		\$36.00
Secretarial	L. Gaarder	1.0	\$8.25		\$8.25
<hr/>					
Total Direct Labor					\$124.62

(6) Other Costs					
	Copies		\$20.10		
	Telephone		\$0.96		
<hr/>					\$21.06
TOTAL DIRECT COSTS					\$145.68

(i) INDIRECT COSTS					
<hr/>					
G & A Expense (1.06 x Direct Labor)					\$132.10
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TOTAL DIRECT AND INDIRECT COSTS \$277.78

(j) FIXED FEE EARNED					\$22.22
<hr/>					

(m) TOTAL AMOUNT CLAIMED					\$300.00
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SUPPORTING INFORMATION

TASK ORDER-001  
 TASK 4 TECHNICAL MEETINGS

(h) DIRECT COSTS

(1) Direct Labor		Hours		Total
Labor Category	Name	Billed	Rate	
Secretarial	K. Sikora	2.0	\$9.28	\$18.56
<b>Total Direct Labor</b>				<b>\$18.56</b>

(3) Consultants Labor				
	J. Daemen	24.0	\$57.75	\$1,386.00 *
<b>Total Consultant Labor</b>				<b>\$1,386.00</b>

Expenses/Travel  
 Date

From	To	Traveller	Costs	
12/9/86	12/11/86	J. Deamen	1) Airfare	\$118.00 *
	Destination		2) Hotel	\$112.35 *
			3) Meals	\$84.53 *
			4) Transportation	\$10.00
From	To	Purpose		
Tuscon	Las Vegas	Appendix 7 visit		

<b>Total Consultant Travel</b>	<b>\$324.88</b>
<b>Total Consultant Labor &amp; Expenses</b>	<b>\$1,710.88</b>

(6) Other Costs

Copies	\$15.20	
Postage	\$5.50	
	-----	\$20.70

<b>TOTAL DIRECT COSTS</b>	<b>\$1,750.14</b>
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(i) INDIRECT COSTS

G & A Expense (1.06 x Direct Labor)	\$19.67
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<b>TOTAL DIRECT AND INDIRECT COSTS</b>	<b>\$1,769.81</b>
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(j) FIXED FEE EARNED	\$141.58
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(m) TOTAL AMOUNT CLAIMED	\$1,911.39
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SUPPORTING INFORMATION

TASK ORDER-002

TASK 1 SITE SPECIFIC IN SITU TESTING POINT PAPERS

(h) DIRECT COSTS

(1) Direct Labor		Hours		
Labor Category	Name	Billed	Rate	Total
Admin. Manager	L. Gaarder	1.0	\$8.25	\$8.25
	J. Markham	2.0	\$24.04	\$48.08
Sr. Engineer	M. Board	20.0	\$22.02	\$440.40
	L. Lorig	18.0	\$19.95	\$359.10
Secretarial	L. Gaarder	8.0	\$8.25	\$66.00
	K. Sikora	1.0	\$9.28	\$9.28
QA	K. Sikora	1.0	\$9.28	\$9.28
<b>Total Direct Labor</b>				<b>\$940.39</b>

(4) Travel		Traveller	Costs	
From	To			
12/17/86	12/19/86	L. Lorig	1) Airfare	\$389.00 *
	Destination		2) Hotel	\$83.50 *
			3) Meals	\$34.00
From	To	Purpose	4) Transportation	\$3.00
Mpls, MN	Wash. DC	In situ testing	5) Phone	\$14.06
		paper review		
				<b>\$523.56</b>
<b>Total Itasca Travel</b>				<b>\$523.56</b>

(6) Other Costs			
	Copies	\$86.30	
	Telephone	\$13.36	
	Courier	\$23.00 *	
	Postage	\$2.46	
			<b>\$125.12</b>

**TOTAL DIRECT COSTS** **\$1,589.07**

(i) **INDIRECT COSTS**

G & A Expense (1.06 x Direct Labor) \$996.81

**TOTAL DIRECT AND INDIRECT COSTS** **\$2,585.88**

(j) **FIXED FEE EARNED** **\$206.87**

(m) **TOTAL AMOUNT CLAIMED** **\$2,792.75**

SUPPORTING INFORMATION

TASK ORDER-002  
TASK 2 THERMOMECHANICAL ANALYSIS  
(h) DIRECT COSTS

(1) Direct Labor		Hours		
Labor Category	Name	Billed	Rate	Total
Admin. Manager	L. Gaarder	1.0	\$8.25	\$8.25
Sr. Engineer	R.Hart	4.0	\$22.12	\$88.48
Asst. Engineer	M. Mack	37.0	\$12.00	\$444.00
Secretarial	L. Gaarder	3.5	\$8.25	\$28.88
Total Direct Labor				\$569.61
TOTAL DIRECT COSTS				\$569.61

(i) INDIRECT COSTS  
-----  
G & A Expense (1.06 x Direct Labor) \$603.79  
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TOTAL DIRECT AND INDIRECT COSTS \$1,173.40

(j) FIXED FEE EARNED \$93.87  
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(m) TOTAL AMOUNT CLAIMED \$1,267.27  
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SUPPORTING INFORMATION

TASK ORDER-003

TASK 2 IDENTIFICATION OF UNDERGROUND SYSTEM DESIGN COMPONENTS

(h) DIRECT COSTS

(1) Direct Labor		Hours		
Labor Category	Name	Billed	Rate	Total
Prog. Manager	R. Hart	2.0	\$22.12	\$44.24
Admin. Manager	L. Gaarder	1.0	\$8.25	\$8.25
	J. Markham	2.0	\$24.04	\$48.08
Sr. Engineer	L. Lorig	6.0	\$19.95	\$119.70
Secretarial	K. Sikora	2.0	\$9.28	\$18.56
	L. Gaarder	2.5	\$8.25	\$20.63
QA	K. Sikora	2.0	\$9.28	\$18.56
Total Direct Labor				\$278.02

(3) Consultants Labor	J. Daemen	18.5	\$57.75	\$1,068.38 *
Total Consultant Labor				\$1,068.38

Expenses/Travel

Date		Traveller	Costs	
From	To			
12/17/86	12/19/86	J. Daemen	1) Airfare	\$520.00 *
	Destination		2) Hotel	\$83.50 *
			3) Meals	\$53.45 *
From	To	Purpose	4) Phone	\$4.40 *
			5) Parking	\$5.00 *
Tuscon	Wash. DC	Report review meeting		\$666.35

Total Consultant Travel	\$666.35
Total Consultant Labor & Expenses	\$1,734.73

(6) Other Costs

Copies	\$44.10
Postage	\$5.28
	\$49.38

TOTAL DIRECT COSTS \$2,062.13

(i) INDIRECT COSTS

G & A Expense (1.06 x Direct Labor) \$294.70

SUPPORTING INFORMATION

TASK ORDER-003

TASK 2 IDENTIFICATION OF UNDERGROUND SYSTEM DESIGN COMPONENTS

TOTAL DIRECT AND INDIRECT COSTS

\$2,356.83

(j) FIXED FEE EARNED

\$188.55

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(m) TOTAL AMOUNT CLAIMED

\$2,545.38

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\* Invoice Attached

SUPPORTING INFORMATION

TASK ORDER-004  
 TASK 1 COMPUTER SYSTEM REQUIREMENTS  
 (h) DIRECT COSTS

(1) Direct Labor		Hours			
Labor Category	Name	Billed	Rate		Total
Sr. Engineer	R. Hart	6.0	\$22.12		\$132.72
Sr. Reviewer	P. Cundall	48.0	\$52.50		\$2,520.00
Secretarial	K. Sikora	2.5	\$9.28		\$23.20
<b>Total Direct Labor</b>					<b>\$2,675.92</b>

(6) Other Costs					
	Copies		\$24.80		
	Postage		\$3.14		
					\$27.94

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**TOTAL DIRECT COSTS** **\$2,703.86**

(i) INDIRECT COSTS					
	G & A Expense (1.06 x Direct Labor)				\$2,836.48

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**TOTAL DIRECT AND INDIRECT COSTS** **\$5,540.34**

(j) FIXED FEE EARNED					\$443.23
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**(m) TOTAL AMOUNT CLAIMED** **\$5,983.57**  
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\* Invoice Attached