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16 July 1986

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. 11 for the period 1-30 June 1986 on Task Orders No. 001 and 002, Contract NRC-02-85-002. Also enclosed is the summary sheet for the June voucher. Please call me if you have any questions.

Sincerely,


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

WM-RES
WM Record File
D1016
Itasca

WM Project 10, 11, 16
Docket No. _____
PDR ✓
LPDR ✓ (B, N, S)

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PDR WMRES EECITAS
D-1016 PDR

Distribution:
D. Tiktinsky *Nstill
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ITASCA MONTHLY PROGRESS REPORT

Progress Report No. 11
NRC Technical Assistance
for Design Reviews

16 July 1986
Contract No. NRC-02-85-002

Reporting Period: 1 - 30 June 1986

1. INTRODUCTION

This progress report summarizes the work performed during June 1986 on NRC Contract No. NRC-02-85-002. Task Order No. 001 work performed in June consisted of document reviews for BWIP and NNWSI, technical review of the Final Environmental Assessments, and attendance at the Rock Mechanics Symposium in Tuscaloosa. Work continued on the Site Technical Position on In-Situ Testing at BWIP and on the development of thermo-mechanical logic for FLAC for Task Order No. 002.

2. ACTIVITIES DURING THE REPORTING PERIOD

- A. On 6 June, Itasca transmitted the review of "Ground Motion Produced at Yucca Mountain from Pahute Mesa Underground Nuclear Explosions," by Luke J. Vortman (SAND85-1605, February 1986).
- B. L. Lorig attended NNWSI FEA review meetings in Silver Spring, 9-13 June. The trip report was transmitted on 17 June 1986.
- C. From 16-17 June, M. Board attended BWIP FEA review meetings in Silver Spring. The trip report was submitted on 23 June.
- D. M. Board completed and submitted the review of "Rock Mass Quality and Support Recommendations for Basalt at the Candidate Repository Horizon, Based on the Q-System" by N. Barton (SD-BWI-ER-012, Rev. 2, 1986) while at Silver Spring. NRC is to provide Itasca with a copy of this review.

ITASCA

- E. R. Rajaram participated in the QA Review of the BWIP FEA at Silver Spring, 18-20 June 1986.
- F. Y. C. Kim attended the 27th U.S. Rock Mechanics Symposium in Tuscaloosa, 23-25 June 1986.
- G. From 23 to 27 June, the Richton Dome FEA Review meeting was held in Silver Spring. It was attended by K. Wahi and I. Farmer (25-27 June).
- H. J. Daemen attended the Deaf Smith FEA Review meeting in Silver Spring, 23-27 June 1986.
- I. On 26 June, Itasca received authorization to review the following documents:
 - (1) "The State of Insitu Stresses Determined by Hydraulic Fracturing at the Hanford Site," K. Kim et al (RHO-BW-ST-73P, 1986); and
 - (2) "Final Report: G-Tunnel Heated Block Experiment," R. Zimmerman et al (SAND 84-2620, 1986).
- J. The review of "Rock Mechanics Data Package," W. R. Sublette (SD-BWI-DP-041, 1983) was submitted on 27 June 1986.
- K. J. Daemen participated in the NNWSI FEA QA review from 30 June to 2 July in Silver Spring.

3.0 RESULTS

- A. Document reviews completed and submitted in June:
 - (1) "Ground Motion Produced at Yucca Mountain from Pahute Mesa Underground Nuclear Explosions," by Luke J. Vortman (SAND85-1605, February 1986)
- Professional Labor: L. Lorig 12 hours

- (2) "Rock Mechanics Data Package," W. R. Sublette (SD-BWI-DP-041, 1983)

Professional Labor: M. Board 16 hours

- (3) "Rock Mass Quality and Support Recommendations for Basalt at the Candidate Repository Horizon, Based on the Q-System" by N. Barton (SD-BWI-ER-012, Rev. 2, 1986)

Professional Labor: M. Board 16 hours

- (4) Final Environmental Assessment Review — Deaf Smith

Professional Labor: J. Daemen 24 hours

- (5) Final Environmental Assessment Review — Richton Dome

Professional Labor: I. Farmer 80 hours (May & June)
K. Wahi 34 hours

- (6) Final Environmental Assessment Review — BWIP

Professional Labor: M. Board 40 hours
R. Rajaram 50 hours

- (7) Final Environmental Assessment Review — NNWSI

Professional Labor: J. Daemen 16 hours

B. Document reviews initiated in June

"Final Report: G-Tunnel Heated Block Experiment," R. Zimmerman et al (SAND 84-2620, 1986).

Professional Labor: L. Lorig 11 hours

C. Other Works in Progress

(1) Site Technical Position on In-Situ Testing at BWIP

Professional Labor: M. Board 62 hours

(2) Verification of thermal analysis capabilities in FLAC

Professional Labor: M. Mack 52 hours

(3) Thermal-mechanical Point Paper

Professional Labor: L. Lorig 23 hours
M. Mack 48 hours
K. Wahi 5 hours

4.0 QUALITY ASSURANCE

Correspondence, document review logs, and trip logs were monitored and updated. BWIP documents were received and catalogued in the reference library.

5.0 DIFFICULTIES

No specific difficulties were experienced during this reporting period.

6.0 ACTIVITIES PLANNED FOR THE NEXT REPORTING PERIOD

- A. The Quality Assurance Reviews of the FEA for salt is scheduled for July in Silver Spring.
- B. The draft Technical Position for In-Situ Testing at BWIP will be completed and submitted for review.
- C. The In-Situ Testing Point Papers for salt and tuff will be initiated in July.

- D. Document reviews for BWIP and NNWSI will be completed and submitted.
- E. Continued effort on the Thermal-mechanical Point Paper is scheduled.
- F. The verification of thermal analysis capabilities in FLAC will be completed and work begun on verifying the thermal analysis capabilities in MUDEC.
- G. A one-week geomechanical modeling session is scheduled to be held in Minneapolis, 14-18 July.

7.0 MEETINGS/TRIPS DURING THE REPORTING PERIOD

- A. A number of meetings were held in Silver Spring to review the Final Environmental Assessments. The dates and labor expenditures for these meetings are as follows.

(1) NNWSI FEA Review — 9-13 June

L. Lorig 40 hours

(2) BWIP FEA Review — 16-17 June

M. Board 16 hours

(3) BWIP FEA QA Review — 18-20 June

R. Rajaram 30 hours

(4) Richton Dome FEA Review — 23-27 June

I. Farmer 22 hours
K. Wahi 51 hours

(5) Deaf Smith FEA Review — 23-27 June

J. Daemen 40 hours

(6) NNWSI QA FEA Review — 30 June - 2 July

J. Daemen 16 hours

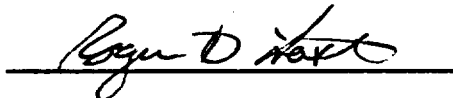
- B. During the period from 23 to 25 June, Y. C. Kim attended the 27th U.S. Symposium on Rock Mechanics in Tuscaloosa, Alabama. Dr. Kim, along with J. Buckley and M. Nataraja, had written a paper for the symposium.

Y. C. Kim 32 hours

8.0 SCHEDULE AND COST PROJECTION

The summary sheet for the June invoice is attached. Costs are well within the limit authorized for both Task Orders No. 001 and No. 002. Several project milestones for Task Order No. 002 were scheduled for June but they conflicted with the FEA reviews. Therefore, the draft BWIP In-Situ Testing paper scheduled for a 16 June submittal will be submitted in mid-July. The NNWSI In-Situ Testing paper outline and meeting schedules will be delayed until August. It is planned to discuss the revised schedule with D. Tiktinsky during his visit to Minneapolis in mid-July.

Respectfully submitted,



Roger D. Hart
Program Manager
16 July 1986

Attach.
rdh/ks

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: 011-86-071
- (d) Date of Voucher: July 15, 1986
- (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 June 1 thru June 30, 1986

	<u>AMOUNT BILLED</u>	
(h)	(k) <u>Current Period</u>	(l) <u>Inception to Date</u>
<u>DIRECT COSTS</u>		
(1) Direct Labor	<u>\$ 7,374.58</u>	<u>\$ 31,521.31</u>
(2) Materials, Supplies and Noncapitalized Equipment	<u>-0-</u>	<u>-0-</u>
(3) Consultants	<u>29,193.96</u>	<u>52,863.37</u>
(4) Travel - Domestic	<u>1,980.86</u>	<u>9,805.37</u>
(5) Subcontract	<u>-0-</u>	<u>13,329.64</u>
(6) Other Costs	<u>244.46</u>	<u>2,170.02</u>
TOTAL DIRECT COSTS	<u>\$ 38,793.86</u>	<u>\$ 109,689.71</u>
<u>INDIRECT COSTS</u>		
G & A Expense 106% of Cost Element (1)	<u>\$ 7,817.06</u>	<u>\$ 33,412.61</u>
TOTAL DIRECT AND INDIRECT COSTS	<u>46,610.92</u>	<u>143,102.32</u>
(j) FIXED-FEE EARNED	<u>3,728.87</u>	<u>11,448.17</u>
(m) TOTAL AMOUNTS CLAIMED	<u>50,339.79</u>	<u>154,550.49</u>
(n) ADJUSTMENTS	<u>-0-</u>	<u>-0-</u>
(o) GRAND TOTALS	<u>\$ 50,339.79</u>	<u>\$ 154,550.49</u>

SUPPORTING INFORMATION

TASK ORDER-001

TASK 2 DOCUMENT REVIEWS

(h) DIRECT COSTS

(1) DIRECT LABOR

<u>Labor Category</u>	<u>Name</u>	<u>Hours Billed</u>	<u>Rate</u>	<u>Total</u>
Program Manager	R. Hart	5.0	\$22.12	\$ 110.60
Admin. Manager	L. Gaarder	14.5	8.25	119.63
	J. Markham	5.0	24.04	120.20
Sr. Professional	M. Board	80.0 ⁺	22.02	1,761.60
	L. Lorig	23.0	19.95	458.85
Secretarial	K. Sikora	16.5	9.28	153.12
QA	K. Sikora	1.5	9.28	13.92
Total Direct Labor				\$2,737.92

(3) CONSULTANTS

Labor	J. Daemen	40.0	\$57.75	\$2,310.00 *
	I. Farmer	40.0 ^o	57.75	2,310.00 *
	I. Farmer	40.0	57.75	2,310.00 *
	R. Rajaram	50.0	66.00	3,300.00 *
	K. Wahi	34.0	57.4062	1,951.81 *
Total Labor/Consultants				\$12,181.81

(6) OTHER COSTS

Copies	\$ 91.30 *
Telephone	69.95 *
Postage	<u>13.65 *</u>
Total Other Costs	\$ 174.90
TOTAL DIRECT COSTS	\$15,094.63

(i) INDIRECT COSTS

G & A Expense (1.06 x Direct Labor)	<u>\$ 2,902.20</u>
TOTAL DIRECT AND INDIRECT COSTS	\$17,996.83

(j) FIXED FEE EARNED

\$ 1,439.75

(m) TOTAL AMOUNT CLAIMED

\$19,436.58

+ Includes 8 hours from May not previously claimed.

^o May hours not previously claimed.

* Invoice attached

SUPPORTING INFORMATION

TASK ORDER-001

TASK 4 TECHNICAL MEETINGS

(h) DIRECT COSTS

DIRECT LABOR

<u>Labor Category</u>	<u>Name</u>	<u>Hours Billed</u>	<u>Rate</u>	<u>Total</u>
Admin. Manager	L. Gaarder	2.0	\$ 8.25	\$ 16.50
	J. Markham	4.0	24.04	96.16
Sr. Professional	M. Board	16.0	22.02	352.32
	L. Lorig	40.0	19.95	798.00
Secretarial	K. Sikora	2.5	9.28	23.20
	L. Gaarder	1.0	8.25	8.25
QA	K. Sikora	1.0	9.28	9.28
Total Direct Labor				\$1,303.71

(3) CONSULTANTS

<u>Labor</u>	<u>Name</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
	J. Daemen	56.0	\$57.75	\$3,234.00 *
	I. Farmer	22.0	57.75	1,270.50 *
	R. Rajaram	30.0	66.00	1,980.00 *
	K. Wahi	51.0	57.4062	2,927.72 *
	Y. Kim	32.0	55.00	1,760.00 *
Total Labor/Consultants Expenses/Travel				\$11,172.22

<u>Date</u>		<u>Traveller</u>	<u>Purpose</u>	<u>Costs</u>
<u>From</u>	<u>To</u>	J. Daemen	EA Review	1) Airfare
6/22/86	7/3/86			\$860.00 *
<u>Destination</u>				2) Hotel
<u>From</u>	<u>To</u>			3) Meals
Tucson, AZ	Wash., D.C.			4) Transportation
				5) Phone
				\$1,624.63

<u>Date</u>		<u>Traveller</u>	<u>Purpose</u>	<u>Costs</u>
<u>From</u>	<u>To</u>	I. Farmer	EA Review	1) Airfare
6/25/86	6/27/86			\$640.00 *
<u>Destination</u>				2) Hotel
<u>From</u>	<u>To</u>			3) Meals
Tucson, AZ	Wash., D.C.			4) Limousine, taxis
				\$857.65

<u>Date</u>		<u>Traveller</u>	<u>Purpose</u>	<u>Costs</u>
<u>From</u>	<u>To</u>	R. Rajaram	EA Review	1) Airfare
6/18/86	6/20/86			\$500.00 *
<u>Destination</u>				2) Hotel
<u>From</u>	<u>To</u>			3) Car rental
Chicago, IL	Wash., D.C.			4) Meals
				5) Parking
				6) Mileage
				7) Phone
				\$819.89

TASK ORDER-001
 TASK 4 TECHNICAL MEETINGS
 PAGE 2

(3) CONSULTANTS TRAVEL (Continued)

<u>Date</u>		<u>Traveller</u>	<u>Purpose</u>	<u>Costs</u>	
<u>From</u>	<u>To</u>				
6/22/86	6/27/86	K. Wahf	EA Review	1) Airfare	\$430.00 *
<u>Destination</u>				2) Hotel	182.90 *
<u>From</u>	<u>To</u>			3) Car rental	136.63 *
Albuquerque, NM	Wash., D.C.			4) Meals	197.50 *
				5) Phone	12.80 *
				6) Mileage, Pkg.	12.76 *
					<u>\$972.59</u>

<u>Date</u>		<u>Traveller</u>	<u>Purpose</u>	<u>Costs</u>	
<u>From</u>	<u>To</u>				
6/23/86	6/25/86	Y. C. Kim	Rock Mechanics Symposium	1) Airfare	\$740.00 *
<u>Destination</u>				2) Registration	205.00 *
<u>From</u>	<u>To</u>			3) Hotel	91.56 *
Tucson, AZ	Tuscaloosa, Alabama			4) Car rental	92.93 *
				5) Meals	95.21 *
				6) Taxis, gas	42.00 *
				7) Phone	11.44 *
					<u>\$1,278.14</u>

Total Travel/Consultants \$5,552.90
 Total Consultants/ Labor & Travel \$16,725.12

(4) TRAVEL

<u>Date</u>		<u>Traveller</u>	<u>Purpose</u>	<u>Costs</u>	
<u>From</u>	<u>To</u>				
6/8/86	6/13/86	L. Lorig	EA Review	1) Airfare	\$ 580.00 *
<u>Destination</u>				2) Hotel	244.75 *
<u>From</u>	<u>To</u>			3) Meals	78.28 *
Mpls., MN	Wash., D.C.			4) Telephone	79.63 *
				5) Car rental	228.72 *
				6) Taxis	17.00 *
				7) Gas, parking	11.63 *
					<u>\$ 1,240.01</u>

<u>Date</u>		<u>Traveller</u>	<u>Purpose</u>	<u>Costs</u>	
<u>From</u>	<u>To</u>				
6/15/86	6/17/86	M. Board	EA Review	1) Airfare	\$ 580.00 *
<u>Destination</u>				2) Hotel	97.90 *
<u>From</u>	<u>To</u>			3) Meals	60.00 *
Mpls., MN	Wash., D.C.			4) Phone	2.95 *
					<u>\$ 740.85</u>

Total Travel/Employees \$ 1,980.86

TASK ORDER-001
TASK 4 TECHNICAL MEETINGS
PAGE 3

		<u>Total</u>
(6) <u>OTHER COSTS</u>		
Telephone	\$ 9.56 *	
Copies	29.40 *	
Postage	<u>4.70 *</u>	
Total Other Costs		\$ <u>43.66</u>
TOTAL DIRECT COSTS		\$20,053.35
(i) <u>INDIRECT COSTS</u>		
G & A Expense (1.06 x Direct Labor)		<u>\$ 1,381.93</u>
TOTAL DIRECT AND INDIRECT COSTS		\$21,435.28
(j) FIXED FEE EARNED		<u>\$ 1,714.82</u>
(m) TOTAL AMOUNT CLAIMED		<u>\$23,150.10</u>

* Invoice Attached.

SUPPORTING INFORMATION

TASK ORDER-002

TASK 1 SITE SPECIFIC IN-SITU TESTING POINT PAPERS

(h) DIRECT COSTS

(1) DIRECT LABOR

<u>Labor Category</u>	<u>Name</u>	<u>Hours Billed</u>	<u>Rate</u>	<u>Total</u>
Admin. Manager	L. Gaarder	1.0	\$ 8.25	\$ 8.25
	J. Markham	3.0	24.04	72.12
Sr. Professional	M. Board	62.0	22.12	1,371.44
Secretarial	K. Sikora	13.5	9.28	125.28
Total Direct Labor				<u>\$1,577.09</u>

(6) OTHER COSTS

Communications	\$ 4.35 *
Copies	12.30 *
Postage	<u>2.19 *</u>
Total Other Costs	<u>\$ 18.84</u>

TOTAL DIRECT COSTS \$1,595.93

(i) INDIRECT COSTS

G & A Expense (1.06 x Direct Labor) \$1,671.72

TOTAL DIRECT AND INDIRECT COSTS \$3,267.65

(j) FIXED FEE EARNED 261.41

(m) TOTAL AMOUNTS CLAIMED \$3,529.06

* Invoice attached.

SUPPORTING INFORMATION

TASK ORDER-002

TASK 2 THERMOMECHANICAL ANALYSIS

(h) DIRECT COSTS

(1) DIRECT LABOR

<u>Labor Category</u>	<u>Name</u>	<u>Hours Billed</u>	<u>Rate</u>	<u>Total</u>
Program Manager	R. Hart	1.0	\$22.12	\$ 22.12
Admin. Manager	L. Gaarder	1.0	8.25	8.25
	J. Markham	2.0	24.04	48.08
Sr. Professional	L. Lorig	23.0	19.95	458.85
Asst. Profession.	M. Mack	100.0	12.00	1,200.00
Secretarial	K. Sikora	2.0	9.28	18.56
Total Direct Labor				\$1,755.86

(3) CONSULTANTS

<u>Labor</u>	K. Wahf	5.0	57.4062	\$ 287.03*
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(6) OTHER COSTS

Copies	6.50 *
Postage	<u>.56 *</u>
Total Other Costs	\$ 7.06

TOTAL DIRECT COST **\$2,049.95**

(i) G & A Expense (1.06 x Direct Labor) **\$1,861.21**

TOTAL DIRECT AND INDIRECT COSTS **\$3,911.16**

(j) FIXED FEE EARNED **312.89**

(m) TOTAL AMOUNT CLAIMED **\$4,224.05**

* Invoice attached.

Jul-86
TASK ORDER 001

TASK LABOR SUMMARY

TASK 2 REVIEW OF DOCUMENTS

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	96	28	68
ADMIN MGR	120	63.5	56.5
SR. PROFFESION	980	428.5	551.5
ASST PROFESSION	300	0	300
SR. REVIEWER	48	0	48
QA	48	14	34
SECRETARIAL	200	192.5	7.5
	-----	-----	-----
TOTAL ITASCA	1792	726.5	1065.5
CONSULTANT			

J. DAEMEN	168	148	20
I. FARMER	88	80	8
ASST PROFESSION	208	0	208
R. BARNES	0	20	-20
K. WAHI	0	74	-74
R. RAJARAM	0	50	-50
	-----	-----	-----
TOTAL CONSULT	464	372	92
SUBCONTRACTOR-NWC			

PRIN INVEST	256	22	234
SR ENGINEER	144	0	144
ENGINEER/GEOL	208	29	179
DRAFTING	0	2	-2
CLERICAL	100	27	73
	-----	-----	-----
TOTAL SUBCONT	708	80	628
	=====	=====	=====
TOTAL TASK	2964	1178.5	1785.5

Jul-86
TASK ORDER 001

TASK LABOR SUMMARY

TASK 4 TECHNICAL MEETINGS

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	62	28	34
ADMIN MGR	76	40.5	35.5
PRIN INVESTIGAT	588	33	555
SR PROFESSION	1108	284	824
SR REVIEW	0	24	-24
QA	32	9.5	22.5
SECRETARIAL	148	57	91
	-----	-----	-----
TOTAL ITASCA	2014	476	1538
CONSULTANT			

J. DAEMEN	588	128	460
I. FARMER	104	61	43
K. WAHI	0	109	-109
R. RAJARAM	0	30	-30
Y. KIM	0	32	-32
	-----	-----	-----
TOTAL CONSULT	692	360	332
SUBCONTRACTOR-NWC			

PRIN INVESTIGAT	588	101	487
CLERICAL	44	28	16
	-----	-----	-----
TOTAL SUBCONT	632	129	503
	=====	=====	=====
TASK TOTAL	3338	965	2373
	=====	=====	=====
TASK ORDER TOT	6545	2168	4377

Jul-86
TASK ORDER 002
TASK 1
SUBTASK 1

TASK LABOR SUMMARY
SITE SPECIFIC IN-SITU TESTING POINT PAPERS
BWIP

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	24	2	22
ADMIN MGR	32	11	21
SR PROFESSION	304	285	19
SR REVIEW	4	0	4
QA	16	2.5	13.5
SECRETARIAL	42	25.5	16.5
	-----	-----	-----
TOTAL ITASCA	422	326	96
SUBCONTRACTOR-NWC			

PRIN INVESTIGAT	72	0	72
CLERICAL	8	0	8
	-----	-----	-----
TOTAL SUBCONT	80	0	80
	=====	=====	=====
SUBTASK TOTAL	502	326	176

Jul-86 TASK LABOR SUMMARY
 TASK 2 THERMOMECHANICAL ANALYSES
 SUBTASK 1 THERMOMECHANICAL ANALYSES

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	30	3	27
ADMIN MGR	40	2	38
SR PROFFESION	432	31	401
ASST. PROFESSIO	80	61	19
SR REVIEW	8	0	8
QA	8	1.5	6.5
SECRETARIAL	56	2.5	53.5
TOTAL ITASCA	654	101	553
CONSULTANT			
K. WAHI	80	5	75
TOTAL CONSULT	80	5	75
SUBTASK TOTAL	734	106	628

TASK 2 THERMOMECHANICAL ANALYSES
 SUBTASK 2 THERMOMECHANICAL MODELING

LABOR CATEGORY	BUDGETED HRS	TOTAL HRS BILLED	HRS REMAINING
PROGRAM MGR	24	0	24
ADMIN MGR	32	1	31
SR PROFFESION	160	0	160
ASST. PROFESSIO	240	52	188
SR REVIEW	80	0	80
QA	8	0	8
SECRETARIAL	56	0	56
TOTAL ITASCA	600	53	547
SUBTASK TOTAL	600	53	547
TASK TOTAL	1334	159	1175
TASK ORDER TOT	3114	485	2629