



PERRIN QUARLES ASSOCIATES

RCVD DEC 2 2008

C080357

December 1, 2008

Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

RE:

Agreement No. 08-755
Federal ID No. 54-1102354
PQA Project No. 1591
November 1, 2008 - November 23, 2008

INVOICE NO. 101

INVOICE

Labor:	Hourly Rate	Current Hours	Current Cost	Cumulative Cost
Project Manager	\$94.00	12.0	\$1,128.00	\$1,128.00
Senior Programmer/Analyst II	\$96.00	147.5	\$14,160.00	\$14,160.00
Senior Programmer/Analyst I	\$88.00	56.0	\$4,928.00	\$4,928.00
Programmer/Analyst I	\$71.00	6.0	\$426.00	\$426.00
Quality Assurance Analyst II	\$66.00	0.8	\$52.80	\$52.80
Senior Environmental Analyst I	\$86.00	64.0	\$5,504.00	\$5,504.00
Environmental Analyst I	\$49.00	106.9	\$5,238.10	\$5,238.10
Assistant Contract Administrator	\$54.00	0.1	\$5.40	\$5.40
Communication Specialist II	\$56.00	0.1	\$5.60	\$5.60
Total Labor		393.4	\$31,447.90	\$31,447.90
Other Direct Costs:				
Telephone			\$2.36	\$2.36
Total Other Direct Costs			\$2.36	\$2.36
Total Cost:			\$31,450.26	\$31,450.26

Approved with check

Thank you for your remittance.

Perrin Quarles, For
Perrin Quarles



RCVD DEC 2 2008

December 1, 2008

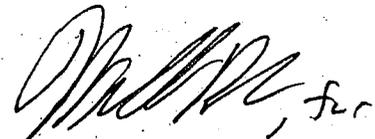
Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

Dear Accounts Payable,

Enclosed is PQA's Invoice No. 101 for Agreement Number 08-755, for work performed from November 1, 2008, through November 23, 2008. Please note that although the effective date of this project is November 1, 2008, no technical work was performed until November 10, 2008.

If you have any questions, please give me or Kate Canterbury a call at extension 114 or 115, respectively.

Sincerely,



Perrin Quarles

JPO/cer
Enclosure



PERRIN QUARLES ASSOCIATES

C080496

RCVD JAN 7 2009

January 2, 2009

Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

RE: Agreement No. 08-755
Federal ID No. 54-1102354
PQA Project No. 1591
November 24, 2008 - December 23, 2008

INVOICE NO. 102

*Approved
with no hold*

INVOICE

Labor:	Hourly Rate	Current Hours	Current Cost	Cumulative Cost
Senior Consultant II	\$159.00	2.5	\$397.50	\$397.50
Project Manager	\$94.00	79.0	\$7,426.00	\$8,554.00
Senior Programmer/Analyst II	\$96.00	492.7	\$47,299.20	\$61,459.20
Senior Programmer/Analyst I	\$88.00	96.4	\$8,483.20	\$13,411.20
Programmer/Analyst I	\$71.00	16.5	\$1,171.50	\$1,597.50
Quality Assurance Analyst II	\$66.00	35.2	\$2,323.20	\$2,376.00
Senior Environmental Analyst I	\$86.00	123.7	\$10,638.20	\$16,142.20
Environmental Analyst I	\$49.00	373.5	\$18,301.50	\$23,539.60
Contract Administrator	\$71.00	0.6	\$42.60	\$42.60
Assistant Contract Administrator	\$54.00	0.5	\$27.00	\$32.40
Communication Specialist II	\$56.00	3.6	\$201.60	\$207.20
Communication Specialist I	\$49.00	2.1	\$102.90	\$102.90
Total Labor		1226.3	\$96,414.40	\$127,862.30
Other Direct Costs:				
Postage			\$9.04	\$9.04
Telephone			\$2.14	\$4.50
WebEx Meetings			\$95.37	\$95.37
Application Service Provider			\$2,525.00	\$2,525.00
Total Other Direct Costs			\$2,631.55	\$2,633.91
Total Cost:			\$99,045.95	\$130,496.21

Thank you for your remittance.

Perrin Quarles
Perrin Quarles



RCVD JAN 7 2009

January 2, 2009

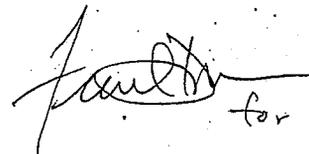
Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

Dear Accounts Payable,

Enclosed is PQA's Invoice No. 102 for Agreement Number 08-755, for work performed from November 24, 2008 through December 23, 2008.

If you have any questions, please give me or Kate Canterbury a call at (434) 979-3700, extension 114 or 115, respectively.

Sincerely,



Perrin Quarles

JPQ/cer
Enclosure

Harman, Guy@ARB

From: Lutter, Karen@ARB
Sent: Thursday, January 08, 2009 10:42 AM
To: Harman, Guy@ARB
Subject: RE: Invoice Approval: PQA 08-755 #102

These charges are correct.

Thanks,

-----Original Message-----

From: Harman, Guy@ARB
Sent: Thursday, January 08, 2009 10:27 AM
To: Lutter, Karen@ARB
Subject: Invoice Approval: PQA 08-755 #102

If charges are correct, please approve attached invoice by 01/15/09 via e-mail.

Thank You

Guy Harman
Accountant I (Specialist)
California Air Resources Board
Phone (916) 322-9390
Fax (916) 322-9612

-----Original Message-----

From: sharpcopier@arb.ca.gov [mailto:sharpcopier@arb.ca.gov]
Sent: Thursday, January 08, 2009 10:00 AM
To: Harman, Guy@ARB
Subject: Scanned image from Accounting Sharp Copier 20th Floor

DEVICE NAME: Accounting Sharp Copier 20th Floor
DEVICE MODEL: SHARP AR-M550U
LOCATION: 20th floor-South Side-Center

FILE FORMAT: PDF MMR(G4)
RESOLUTION: 300dpi x 300dpi

Attached file is scanned image in PDF format.
This file can be read by Adobe Acrobat Reader.
The reader can be downloaded from the following URL:

<http://www.adobe.com/>



PERRIN QUARLES ASSOCIATES

C080620

RCVD FEB 5 2009

February 3, 2009

Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

RE: Agreement No. 08-755
Federal ID No. 54-1102354
PQA Project No. 1591
December 24, 2008 - January 23, 2009

*Approved
W. School*

INVOICE NO. 103

INVOICE

Labor:	Hourly Rate	Current Hours	Current Cost	Cumulative Cost
Senior Consultant II	\$159.00	0.0	\$0.00	\$397.50
Project Manager	\$94.00	9.5	\$893.00	\$9,447.00
Senior Programmer/Analyst II	\$96.00	175.0	\$16,800.00	\$78,259.20
Senior Programmer/Analyst I	\$88.00	69.3	\$6,098.40	\$19,509.60
Programmer/Analyst I	\$71.00	0.0	\$0.00	\$1,597.50
Quality Assurance Analyst II	\$66.00	1.3	\$85.80	\$2,461.80
Senior Environmental Analyst I	\$86.00	159.3	\$13,699.80	\$29,842.00
Environmental Analyst I	\$49.00	232.5	\$11,392.50	\$34,932.10
Contract Administrator	\$71.00	0.9	\$63.90	\$106.50
Assistant Contract Administrator	\$54.00	1.2	\$64.80	\$97.20
Communication Specialist II	\$56.00	0.7	\$39.20	\$246.40
Communication Specialist I	\$49.00	0.0	\$0.00	\$102.90
Total Labor		649.7	\$49,137.40	\$176,999.70
Other Direct Costs:				
Postage			\$9.04	\$18.08
Telephone			\$2.74	\$7.24
WebEx Meetings			\$173.91	\$269.28
Travel			\$882.84	\$882.84
Application Service Provider			\$2,325.00	\$4,850.00
Total Other Direct Costs			\$3,393.53	\$6,027.44
Total Cost:			\$52,530.93	\$183,027.14

Thank you for your remittance.

Perrin Quarles

Perrin Quarles

Voucher No. 103
Agreement No. 08-755
Summary of Travel Costs

Date	Details	People	Cost Type	Quantity	Rate/Unit	Total
12/18 -	Point of Origin: PQA Offices, VA	1	Airfare			\$671.00
12/20/08	Destination: Sacramento, CA		Meals & Incidentals	2 days and Breakfast	\$40.00/day	\$71.75
	Purpose: Meet with ARB Staff and Demo		Lodging	1 night	\$95.09/night	\$95.09
	EATS Software to Reporters		Ground Transportation	Taxi to Airport in CA		\$45.00
TOTAL TRAVEL COSTS						\$882.84



RCVD FEB 5 2009

February 3, 2009

Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

Dear Accounts Payable,

Enclosed is PQA's Invoice No. 103 for Agreement Number 08-755, for work performed from December 24, 2008 through January 23, 2009.

If you have any questions, please give me or Kate Canterbury a call at (434) 979-3700, extension 114 or 115, respectively.

Sincerely,

Perrin Quarles

JPQ/cer
Enclosure

Harman, Guy@ARB

From: Lutter, Karen@ARB
Sent: Monday, February 09, 2009 9:47 AM
To: Harman, Guy@ARB
Subject: RE: Invoice Approval: PQA 08-755 #103.

Hello,

The attached invoice is correct.

Thanks.

-----Original Message-----

From: Harman, Guy@ARB
Sent: Monday, February 09, 2009 9:22 AM
To: Lutter, Karen@ARB
Subject: Invoice Approval: PQA 08-755 #103

If charges are correct, please approve attached invoice by 02/16/09 via e-mail.

Thanks

Guy Harman
Accountant I (Specialist)
California Air Resources Board
Phone (916) 322-9390
Fax (916) 322-9612

-----Original Message-----

From: sharpcopier@arb.ca.gov [mailto:sharpcopier@arb.ca.gov]
Sent: Monday, February 09, 2009 9:05 AM
To: Harman, Guy@ARB
Subject: Scanned image from Accounting Sharp Copier 20th Floor

DEVICE NAME: Accounting Sharp Copier 20th Floor
DEVICE MODEL: SHARP AR-M550U
LOCATION: 20th floor-South Side-Center

FILE FORMAT: PDF MMR (G4)
RESOLUTION: 300dpi x 300dpi

Attached file is scanned image in PDF format.
This file can be read by Adobe Acrobat Reader.
The reader can be downloaded from the following URL:

<http://www.adobe.com/>



PERRIN QUARLES ASSOCIATES

CO80620

February 27, 2009

Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

RE: Agreement No. 08-755
Federal ID No. 54-1102354
PQA Project No. 1591
January 24, 2009 - February 23, 2009

INVOICE NO. 104

*Approval
attached*

INVOICE

Labor:	Hourly Rate	Current Hours	Current Cost	Cumulative Cost
Senior Consultant II	\$165.00	0.0	\$0.00	\$397.50
Project Manager	\$98.00	16.5	\$1,617.00	\$11,064.00
Senior Programmer/Analyst II	\$100.00	48.5	\$4,850.00	\$83,109.20
Senior Programmer/Analyst I	\$92.00	14.9	\$1,370.80	\$20,880.40
Programmer/Analyst I	\$74.00	0.0	\$0.00	\$1,597.50
Quality Assurance Analyst II	\$69.00	0.0	\$0.00	\$2,461.80
Senior Environmental Analyst I	\$89.00	50.0	\$4,450.00	\$34,292.00
Environmental Analyst I	\$51.00	206.6	\$10,536.60	\$45,468.70
Contract Administrator	\$74.00	0.8	\$59.20	\$165.70
Assistant Contract Administrator	\$56.00	4.3	\$240.80	\$338.00
Communication Specialist II	\$58.00	0.0	\$0.00	\$246.40
Communication Specialist I	\$51.00	2.4	\$122.40	\$225.30
Total Labor		344.0	\$23,246.80	\$200,246.50
Other Direct Costs:				
Postage			\$9.04	\$27.12
Telephone			\$3.78	\$11.02
WebEx Meetings			\$0.00	\$269.28
Travel			\$0.00	\$882.84
Software			\$10,232.45	\$10,232.45
Application Service Provider			\$2,775.00	\$7,625.00
Total Other Direct Costs			\$13,020.27	\$19,047.71
Total Cost:			\$36,267.07	\$219,294.21

RCVD MAR 4 2009

Thank you for your remittance.

[Signature]

William Balcke



February 27, 2009

Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

Dear Accounts Payable,

Enclosed is PQA's Invoice No. 104 for Agreement Number 08-755, for work performed from January 24, 2009 through February 23, 2009. Consistent with the contract please note that PQA has increased its rates by 4%, effective January 24, 2009.

If you have any questions, please give me or Cate Garris a call at (434) 979-3700, extension 117 or 138, respectively.

Sincerely,

William Balcke

WWB/cer
Enclosure

RCVD MAR 4 2009

Harman, Guy@ARB

From: Lutter, Karen@ARB
Sent: Thursday, March 05, 2009 1:39 PM
To: Harman, Guy@ARB
Subject: RE: Invoice Approval: Perrin Quarles 08-755 #104

These charges are approved.

Thanks.

-----Original Message-----

From: Harman, Guy@ARB
Sent: Thursday, March 05, 2009 9:23 AM
To: Lutter, Karen@ARB
Subject: Invoice Approval: Perrin Quarles 08-755 #104

If charges are correct please approve attached invoice by 03/13/09 via e-mail.

Thank You

Guy Harman
Accountant I (Specialist)
California Air Resources Board
Phone (916) 322-9390
Fax (916) 322-9612

-----Original Message-----

From: sharpcopier@arb.ca.gov [mailto:sharpcopier@arb.ca.gov]
Sent: Thursday, March 05, 2009 9:21 AM
To: Harman, Guy@ARB
Subject: Scanned image from Accounting Sharp Copier 20th Floor

DEVICE NAME: Accounting Sharp Copier 20th Floor
DEVICE MODEL: SHARP AR-M550U
LOCATION: 20th floor-South Side-Center

FILE FORMAT: PDF MMR(G4)
RESOLUTION: 300dpi x 300dpi

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The reader can be downloaded from the following URL:

<http://www.adobe.com/>

PQA

PERRIN QUARLES ASSOCIATES

C080640

March 31, 2009

Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

RE: Agreement No. 08-755
Federal ID No. 54-1102354
PQA Project No. 1591
February 24, 2009 - March 23, 2009

INVOICE NO. 105

INVOICE

Labor:	Hourly Rate	Current Hours	Current Cost	Cumulative Cost
Senior Consultant II	\$165.36	0.0	\$0.00	\$397.50
Project Manager	\$97.76	8.0	\$782.08	\$11,842.12
Senior Programmer/Analyst II	\$99.84	87.5	\$8,736.00	\$91,837.44
Senior Programmer/Analyst I	\$91.52	20.2	\$1,848.70	\$22,721.95
Programmer/Analyst I	\$73.84	0.0	\$0.00	\$1,597.50
Quality Assurance Analyst II	\$68.64	0.0	\$0.00	\$2,461.80
Senior Environmental Analyst I	\$89.44	6.0	\$536.64	\$34,850.64
Environmental Analyst I	\$50.96	131.8	\$6,716.53	\$52,176.97
Contract Administrator	\$73.84	1.4	\$103.38	\$268.95
Assistant Contract Administrator	\$56.16	1.2	\$67.39	\$406.08
Communication Specialist II	\$58.24	0.0	\$0.00	\$246.40
Communication Specialist I	\$50.96	27.7	\$1,411.59	\$1,636.79
Total Labor		283.8	\$20,202.31	\$220,444.14
Other Direct Costs:				
Postage			\$9.04	\$36.16
Telephone			\$11.46	\$22.48
WebEx Meetings			\$0.00	\$269.28
Travel			\$0.00	\$882.84
Software			\$0.00	\$10,232.45
Application Service Provider			\$3,523.00	\$11,148.00
Total Other Direct Costs			\$3,543.50	\$22,591.21
Credit Invoice 104 (corrected in Cumulative Cost by Labor Category):*			(\$4.67)	-
Total Cost:			\$23,741.14	\$243,035.35

Approved
with check

* As discussed with Karen Lutter on March 10, 2009, PQA overbilled ARB \$4.67 on Invoice 104. PQA has corrected this error in the current invoice.

Thank you for your remittance.



Perrin Quarles



RCVD APR 3 2009

March 31, 2009

Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

Dear Accounts Payable,

Enclosed is PQA's Invoice No. 105 for Agreement Number 08-755, for work performed from February 24, 2009 through March 23, 2009. Please note that as discussed with Karen Lutter on March 10, 2009, PQA has included a credit of \$4.67 on the current invoice. This credit is for an overbilling on Invoice No. 104 (labor category rates were incorrectly rounded). This credit is reflected as a separate line for the Current Cost column and allocated appropriately by labor category for the Cumulative Cost column.

If you have any questions, please give me or Cate Garris a call at (434) 979-3700, extension 114 or 138, respectively.

Sincerely,

Perrin Quarles

JPQ/cer
Enclosure

Harman, Guy@ARB

From: Lutter, Karen@ARB
Sent: Tuesday, April 07, 2009 9:38 AM
To: Harman, Guy@ARB
Subject: RE: Invoice Approval: PQA 08-755 #105

Hello Guy,

I approve of these charges.

Karen Lutter

-----Original Message-----

From: Harman, Guy@ARB
Sent: Monday, April 06, 2009 1:31 PM
To: Lutter, Karen@ARB
Subject: Invoice Approval: PQA 08-755 #105

If charges are correct, please approve attached invoice by 04/13/09 via e-mail.

Thank You

Guy Harman
Accountant I (Specialist)
California Air Resources Board
Phone (916) 322-9390
Fax (916) 322-9612

-----Original Message-----

From: sharpcopier@arb.ca.gov [mailto:sharpcopier@arb.ca.gov]
Sent: Monday, April 06, 2009 1:13 PM
To: Harman, Guy@ARB
Subject: Scanned image from Accounting Sharp Copier 20th Floor

DEVICE NAME: Accounting Sharp Copier 20th Floor
DEVICE MODEL: SHARP AR-M550U
LOCATION: 20th floor-South Side-Center

FILE FORMAT: PDF MMR (G4)
RESOLUTION: 300dpi x 300dpi

Attached file is scanned image in PDF format.
This file can be read by Adobe Acrobat Reader.
The reader can be downloaded from the following URL:

<http://www.adobe.com/>

PQA

PERRIN QUARLES ASSOCIATES

CO 80885

April 30, 2009

Air Resources Board
Accounting Section
1001 I Street
Sacramento, CA 95812

RE:

Agreement No. 08-755
Federal ID No. 54-1102354
PQA Project No: 1591
March 24, 2009 - April 13, 2009

Approved
R. Quarles

FINAL INVOICE NO. 106

INVOICE

Labor:	Hourly Rate	Current Hours	Current Cost	Cumulative Cost
Senior Consultant II	\$165.36	0.0	\$0.00	\$397.50
Project Manager	\$97.76	3.5	\$342.16	\$12,184.28
Senior Programmer/Analyst II	\$99.84	12.5	\$1,248.00	\$93,085.44
Senior Programmer/Analyst I	\$91.52	0.5	\$45.76	\$22,767.71
Programmer/Analyst I	\$73.84	7.5	\$553.80	\$2,151.30
Quality Assurance Analyst II	\$68.64	0.0	\$0.00	\$2,461.80
Senior Environmental Analyst I	\$89.44	0.0	\$0.00	\$34,850.64
Environmental Analyst I	\$50.96	32.5	\$1,656.20	\$53,833.17
Contract Administrator	\$73.84	0.7	\$51.69	\$320.64
Assistant Contract Administrator	\$56.16	0.4	\$22.46	\$428.54
Communication Specialist II	\$58.24	0.0	\$0.00	\$246.40
Communication Specialist I	\$50.96	0.0	\$0.00	\$1,636.79
Total Labor		57.6	\$3,920.07	\$224,364.21
Other Direct Costs:				
Postage			\$9.04	\$45.20
Telephone			\$10.54	\$33.02
WebEx Meetings			\$0.00	\$269.28
Travel			\$0.00	\$882.84
Software			\$0.00	\$10,232.45
Application Service Provider			\$2,925.00	\$14,073.00
Total Other Direct Costs			\$2,944.58	\$25,535.79
Total Cost:			\$6,864.65	\$249,900.00

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0-00G

6-864-65

1-451-90

30-491-84

003

38-808-396

Thank you for your remittance.

R. Quarles

Perrin Quarles

PQA

PERRIN QUARLES ASSOCIATES

April 30, 2009

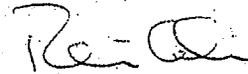
Air Resources Board
Accounting Section
1001 I-Street
Sacramento, CA 95812

Dear Accounts Payable,

Enclosed is PQA's Invoice No. 106 for Agreement Number 08-755, for work performed from March 24, 2009 through April 13, 2009.

If you have any questions, please give me or Cate Garris a call at (434) 979-3700, extension 114 or 138, respectively.

Sincerely,



Perrin Quarles

JPQ/cer
Enclosure

Harman, Guy@ARB

From: Lutter, Karen@ARB
Sent: Tuesday, June 23, 2009 11:21 AM
To: Harman, Guy@ARB
Subject: FW: Payment Status
Attachments: Invoice No. 106.pdf

-hello Guy,

Attached is the PQA invoice we were looking for today, under Contract 08-755. I approve this for payment. Please process accordingly.

Karen Lutter

From: Garris, Cate [mailto:categarris@pqa.com]
Sent: Tuesday, June 23, 2009 11:11 AM
To: Lutter, Karen@ARB
Cc: Dunnivan, Kate
Subject: RE: Payment Status

Hi Karen,

Thank you for looking into the status of these invoices. Attached is Invoice No. 106 under Contract No. 08-755.

Thank you again,
Cate

Cate Garris
Sr. Contracts Administrator
Perrin Quarles Associates, Inc.
(434) 979-3700, extension 138 (main line)
(434) 817-4145 (direct line)
(434) 296-2860 (fax line)

From: Lutter, Karen@ARB [mailto:klutter@arb.ca.gov]
Sent: Tuesday, June 23, 2009 2:02 PM
To: Garris, Cate
Subject: FW: Payment Status

Hi Cate,

I checked on the status of PQA invoice payments here at ARB.

For Contract 08-755, Invoice #106 (\$6864.65) : Please resend this invoice to me as our accounting dept is unable to find this one in their filing system. I will forward it to accounting and approve for payment. Following approval, payment takes about 1 month.

For Contract 08-765, Invoices #101 (\$1451.90) and #102 (\$30491.84) : Our accounting dept has these invoices and I have already approved them for payment. They are holding these invoices until our IT-contract budget exemption is approved. The funds will be released for invoice payments once the exemption is finalized. We should know within about 1 week.

6/23/2009

STANDARD AGREEMENT

FOR I.T. GOODS/SERVICES ONLY

	REGISTRATION NUMBER 39001108342386	
PURCHASING AUTHORITY NUMBER 9I-0908-ARB-HQ1	AGREEMENT NUMBER 08-755	

1. This Agreement is entered into between the State Agency and Contractor named below:
 STATE AGENCY'S NAME

Air Resources Board (hereafter called ARB or State)

CONTRACTOR'S NAME
Perrin Quarles Associates (hereafter called PQA or Contractor)

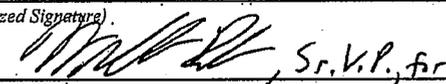
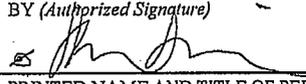
2. The term of this Agreement is **November 1, 2008 through December 31, 2009**

3. The maximum amount of this Agreement is: **\$249,900.00**
TWO HUNDRED FORTY-NINE THOUSAND, NINE HUNDRED, AND 00/100s

4. The parties agree to comply with the terms and conditions of the following attachments which are by this reference made a part of the Agreement:
- Exhibit A – Statement of Work 5 pages
 - Exhibit A, Attachment 1 – PQA's Proposal 8 pages
 - Exhibit B – Budget 1 page
 - Exhibit B, Attachment 1 – Time and Materials 1 page
 - Exhibit C* – General Provisions - GSPD-401T (04/12/07) Online*
 - Exhibit D* – Information Technology Software Special Provisions Online*

Items shown with an Asterisk (), are hereby incorporated by reference and made part of this agreement as if attached hereto. These documents can be viewed at www.pd.dgs.ca.gov/modellanc/ModelContracts.htm*

IN WITNESS WHEREOF, this Agreement has been executed by the parties hereto.

CONTRACTOR	
CONTRACTOR'S NAME (If other than an individual, state whether a corporation, partnership, etc.) Perrin Quarles Associates	
BY (Authorized Signature) 	DATE SIGNED 11/7/08
PRINTED NAME AND TITLE OF PERSON SIGNING Perrin Quarles, President (William Blake, Sr. V.P. signed for)	
ADDRESS 652 Peter Jefferson Parkway, Suite 300, Charlottesville, VA 22911	
STATE OF CALIFORNIA	
AGENCY NAME Air Resources Board	
BY (Authorized Signature) 	DATE SIGNED 11/10/08
PRINTED NAME AND TITLE OF PERSON SIGNING Socorro Watkins, Chief, Business Management Branch	
ADDRESS P.O. Box 2815, Sacramento, California 95814	
Sharon Simmons Contract Services Section Manager Air Resources Board	

CALIFORNIA
 Department of General Services
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9I-0908-ARB-HQ1

Exempt per
 State Administrative Manual
 § 12933.3(h)

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Background

With passage of the California Global Warming Solutions Act of 2006, California has emerged as a leader in the fight against global warming. The law sets an aggressive greenhouse gas (GHG) emissions reduction goal: the statewide, aggregated emissions in 2020 must not exceed what the emissions level was in 1990.

To reduce the state's overall GHG emissions to the 1990 level by 2020, a broad array of GHG emissions reduction strategies will be required. The tracking of GHG emissions at the facility level are essential for developing emission reduction strategies and emission mitigation options, implementing any possible cap-and-trade program, and, ultimately, ensuring the state's emissions reduction goals are achieved.

To obtain comprehensive and accurate GHG emissions data, the Air Resources Board (ARB) is required to collect emissions data from sources through a program of mandatory emissions reporting. Through mandatory reporting, companies and organizations will quantify and report GHG emissions from various sources and processes.

The ARB recently adopted the Regulation for Mandatory Reporting of GHG Emissions proposed by ARB staff. Critical to the success of mandatory reporting program is an automated emissions reporting system with a full compliment of database infrastructure, reporting protocol standards and requirements, and online data entry and tracking tools. An online reporting platform for facilities to report their GHG emissions will streamline the GHG emission data collection, emission calculation, emission verification, and emission data summarization and reporting.

The mandatory reporting regulation and guidance documents will serve as the basis for standardizing reported data, and will specify the GHG emission reporting procedures standards, emission calculation methods, data items, and verification requirements.

Project Summary

The ARB's Mandatory Reporting Tool is envisioned as a typical 3-tiered system consisting of database servers, internet servers and web pages, and client desktops. However, the system has distinct functions and unique business requirements associated to GHG emission accounting rules and standards. The project seeks a comprehensive IT solution for the GHG reporting system with both hardware and software components.

The system's front end is an online emission reporting platform, supported by database servers, report servers, and internet servers. The system will have the capacity to share and exchange GHG emission data with similar systems of other states, regions, and countries, including The Climate Registry (TCR) and Western Climate Initiative (WCI), and will have the capacity to support carbon tracking and trading programs developed nationally and internationally.

In recognition of the overall goals of ARB's climate change program, the reporting system must be designed and built consistent with the reporting applications of existing registry organizations as well as with the flexibility and scalability to meet ARB's long-term programmatic needs.

The core functions of the online emission reporting platform must include following aspects:

- Account management
- Emissions reporting and calculation

EXHIBIT A

Standard Agreement

- Emissions verification
- Data query and summary (public access)
- Emissions analysis (ARB internal use)
- Data management, backup, and recovery tools

Account Management

The system will support several user groups, each with different roles and privileges. These user groups include, but are not limited to:

- Reporting entities and facilities
- Verifiers
- Internal users
- Super users (System administrators, DBA)
- Interested parties and general public

For account management, the system should have modules for creating new accounts, editing user profiles, changing or recovering passwords, and assigning roles and web page access for particular users.

Emissions Reporting and Calculation

The system will provide a user-friendly platform and logical workflow for users to enter all required data fields regarding GHG emissions from reporting entities, facilities, devices, processes. The data fields should include activity data, emissions factors, and other parameters characterizing the emissions sources and activities. The system will support online data entry, and data upload in batch files.

The system shall provide sector-specific or process-specific emission calculations/calculators that are context sensitive and intelligent in selecting appropriate emission estimation techniques based on sectors and data availability. These emission calculation tools should implement requirements of both the general reporting rules and sector specific reporting requirements as described in GHG mandatory reporting regulations and guidance documents.

Emissions Verification

The system must provide modules or web pages that allow verifiers to access emission data provided by reporting entities, and issue electronic verification opinions to both reporting entities and emission records in the system. Authorized verifiers must verify emissions data submitted by reporting facilities prior to data being finalized. The system must allow for a lockdown of the data during the verification process and then the ability for the reporter to submit revised emissions if the verification process identifies any material misstatements.

Data Summaries (public access)

The system must provide standard summary reports on GHG emissions based on a variety of grouping criteria, such as entity, facility, pollutant, industrial sector, and fuel type. The system shall support the output of the report in commonly used file formats, such as PDF, Excel, CSV, and/or text files.

The level of detail of reported data to which public users will have access will be driven, in part, by confidentiality concerns provided to ARB by individual facilities. Therefore, the tool must provide a means for facilities to flag data they deem confidential and/or proprietary.

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Emissions Analysis Tools (ARB internal use)

The system must also provide emission analysis tools that track emission trends, produce basic emissions statistics, implement quality assurance/quality control (QA/QC) filtering and flags, generate database queries, and provide data tables with drill-down and scale-up aggregation functions.

Data management, backup, and recovery tools

The system shall provide a set of tools that manage the emissions database, such as editing, adding, and deleting records from database tables. Tools are also needed to perform services such as data backup and recovery.

Consistency with Existing Systems

California is one of the leading members of TCR, a collaborative between states, provinces, and tribes aimed at developing and managing a common greenhouse gas emission reporting system. With about 50 participating states, provinces, and tribes from the United States, Canada, and Mexico, TCR will play an important role in voluntary reporting of GHG emissions in North America. To date, TCR has focused on developing reporting protocols and a comprehensive software application for the reporting/calculation of GHGs. The basis for the TCR application is the Emissions Allowance Tracking System/Calculation, Reporting, and Verification Tool (EATS/CRAVe) developed under the sponsorship of USEPA by Perrin Quarles Associates (PQA) of Charlottesville, Virginia.

In general, ARB's mandatory reporting regulation will require that more data be reported from reporting entities than is required for voluntary reporting. The proposed TCR voluntary reporting tool is therefore not sufficient for ARB to use for mandatory reporting. However, the development of ARB's reporting tool can leverage the TCR reporting tool by adding additional data fields, database tables, emission estimation algorithms, web pages, query tools, and report forms.

The advantages of building ARB's reporting tool based on the TCR tool include consistency, compatibility, cost effectiveness, and reduced development time. ARB staff will review the current functional specifications for TCR reporting tool, in conjunction with the contractor, and will assess supplementary requirements necessary to meet the ARB mandatory reporting regulations. To a large extent, the ARB reporting tool will be similar to those described by the TCR functional specifications, including system design, functionality, and user interfaces.

Tasks

The contractor, in consultation with ARB staff, will identify hardware and software solutions for the system, including, but not limited to:

- Server type(s)
- Operating system
- Database engine
- Internet service
- Third-party software
- Programming language
- Software development platform
- Security measures to safeguard system

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Deliverables

ARB expects following key deliverables as milestones at various stages of the project:

System

- Functional Specifications Document of the ARB mandatory reporting system
- Requirement of hardware configuration and software environment
- System design and software development plan
- Data table definition, data dictionary, and database schema
- Graphic designing and user interface
- Work process charts and control flow charts
- Source code, technical support documentation, and user guidelines
- A testing system and website
- Full technical Support on initial setup of database servers, internet servers, and web pages on both development machines and production machines, at a contractor facility that hosts the GHG reporting services

Meetings

- Regular meetings shall be held monthly (at a minimum), via teleconference, between ARB and PQA to discuss
 - business requirements, hardware and software options
 - graphic user interface (GUI) design
 - implementation of reporting and verification protocols
 - functions of data analysis and reporting
 - system testing and evaluation
 - other technical issues as needed
- Quarterly meetings shall be held monthly (at a minimum), via teleconference, between ARB and PQA to discuss the progress of the project
- On-site meeting at ARB shall be held as needed to discuss/demonstrate the development and implementation of the on-line reporting system with ARB staff and/or stakeholders.

Reports

- Monthly/Quarterly Reports
 - Prior to meetings, written reports and/or summaries should be submitted to ARB staff to facilitate discussions on progress, issues, and milestones as delineated in the work plan and schedule.
 - During meetings, the in-progress version of the system should be demonstrated.
- Final Report
 - The final project report/summary document shall describe major achievements and assess if the initial goals and objective have been achieved for the project.

Contractor's Proposal

Perrin Quarles Associates proposal, marked Exhibit A, Attachment 1, attached hereto and incorporated herein.

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Project Representatives

The project representatives during the term of this Agreement will be:

State: Air Resources Board (ARB)	Contractor: Perrin Quarles Associates (PQA)
Section: Planning & Technical Support Division (PTSD)	Section:
Attention: Karen Lutter	Attention: Perrin Quarles, President
Address: 1001 I Street, 7 th Floor Sacramento, CA 95814	Address: 652 Peter Jefferson Parkway, Ste. 300 Charlottesville, VA 22911
Phone: (916) 322-8620	Phone: (434) 979-3700, ext. 114
Fax: (916) 327-8524	Fax: (434) 296-2860
Email: klutter@arb.ca.gov	Email: perrinquarles@pqa.com

Administrative questions regarding the contract may be directed to:

State: ARB	Contractor: Perrin Quarles Associates (PQA)
Section: PTSD	Section:
Attention: Grace Parker	Attention: Cate Garris
Address: 1001 I Street, 7 th Floor Sacramento, CA 95814	Address: 652 Peter Jefferson Parkway, Ste. 300 Charlottesville, VA 22911
Phone: (916) 322-4349	Phone: (434) 817-4145 (direct) General: (434) 979-3700
Fax: (916) 327-2940	Fax: (434) 296-2860
Email: gparker@arb.ca.gov	Email: categarris@pqa.com

Amendments

This agreement may be amended upon mutual agreement by both parties, in writing, for additional time, money, or tasks as needed.

EXHIBIT A, ATTACHMENT 1 Standard Agreement

October 24, 2008

Estimated Costs for a Greenhouse Gas Emissions Mandatory Reporting Tool

I. Introduction

Perrin Quarles Associates, Inc. (PQA) is pleased to submit this response to the request by California ARB for the additional costs for design and development of the Greenhouse Gas Emissions Mandatory Reporting Tool. This response provides the estimated additional costs to deliver Version 1.0 of the Reporting Tool within the required timeframe. As discussed in the cost estimate for the previous contract, dated February 6, 2008, the original contract assumed a general level of customization of the base application. This proposal includes the costs for the specific customization requested by ARB and the costs associated with hosting the application.

II. Version 1.0 Development Costs

After gathering detailed requirements and developing a complete functional specification, PQA is now able to provide a more precise cost estimate for Version 1.0 based on the specific needs of ARB. The requirements, testing, and development costs below are an estimate of the additional costs associated with the implementation of ARB specific functionality. The ARB specific functionality included in the estimates below is based upon ARB's prioritization of development tasks as determined in discussions with ARB staff. The costs below are an estimate only and are subject to adjustment based on the availability of more detailed information regarding system requirements.

Also specified below are the estimated costs for hosting and system maintenance. Please note that the estimated hours associated with hosting and system maintenance will only cover basic technical support. It is expected that additional hours will be required to fully support the application in the manner requested by ARB. Per ARB's request, hosting costs have been provided for the period beginning December 2008 and extending through December 2009. The Other Direct Costs (ODC's) included in the estimated costs are detailed in the scope for each phase and subtask.

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PQA Approach and Estimated Costs
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Figure 1
Summary of Version 1.0 Development Task Areas and Estimated Hours and Cost

Phase	Scope	Estimated Hours	Estimated Cost
Project Administration	Includes monthly progress reports, invoices, project planning, and other contract management activities. PQA has assumed 100 hours in telephone costs (\$480) and 14 FedEx mailings (\$85).	111	\$11,000
Requirements Gathering and Documentation	Includes requirements collection and design documentation (only for customized features or new modules). It also includes all requirements and design documents relating to application modifications and enhancements.	125	\$6,100
Development	Database and programming changes to meet ARB requirements (summary of Development costs stated below). PQA has assumed travel costs for one person to take a two night trip to Sacramento (\$880), including hotel, flight, ground transportation, and California approved per diem.	1,600	\$146,600
Look & Feel Changes	Includes implementing ARB specific banner, style sheet, layout, menu, and customizing web labels.	75	--
User Registration	Includes completely new registration process. ARB will initially load approximately 1,500 entities and facilities. New development to include automatic user approval mechanism through use of ARB ID and secure access code.	75	--
Source Inventory Module	Includes a new relationship in which facilities are separate and distinct from entities. Additional customizations per information category. New tabs to support new submission types and ARB specific information.	50	--
Annual Reporting	Includes the ability to create and track multiple submission types per entity, facility, and unit.	100	--
Emissions Reporting Module	Includes modifications to the existing reporting of facility/unit level emissions data and brand new functionality for the reporting of entity level SF ₆ and facility/unit level fuels data. Also new functionality for device level fuel data.	400	--
Non-Emissions Reporting Module	Includes creation of a new submission type, specific to non-emissions data (power use, production, and additional supplemental data).	300	--
Annual Entity Reporting	Includes creation of a new submission type, used to report power transactions, sales, and SF ₆ data. Also includes a bulk upload data process specific to annual entity reporting.	400	--
Verification Module	Includes placeholder for new development and changes to existing (TCR) verification process.	75	--
Verifying Organization Module	Includes new development for tracking accreditation of verifiers and new business rules for selecting and displaying verifier-facility relationships, and for handling conflict of interest statements.	50	--

(cont.)

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PQA Approach and Estimated Costs
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Figure 1
Summary of Version 1.0 Development Task Areas and Estimated Hours and Cost (cont.)

Phase	Scope	Estimated Hours	Estimated Cost
Reports	Includes facility summary and entity summary reports.	75	--
Testing	Includes developing a test plan, unit testing, integrated testing, beta testing, and production testing. Additional hours required due to increase in development scope.	350	\$18,500
Hosting and System Maintenance	Includes hosting costs for 13 months, beginning in December 2008 and extending through December 2009. PQA assumes a base hosting cost of \$2,325.00 per month plus a \$200 set up fee. Additional costs for a ColdFusion 8 2 CPU Standard License (\$1,200), a SQL 2008 Web Edition License (\$3,400), and a SQL 2008 Standard 1 CPU License (\$5,200) will also be incurred.	425	\$67,700
TOTAL		2,611	\$249,900

Figure 2
Breakdown of Hours by PQA Staff

Staff Person	Estimated Hours
Arnold, Beth	17
Bedard, John	315
Bond, James	100
Brinkley, Lisa	75
Canterbury, Kate	7
Foster, Lou	75
Garris, Cate	5
Mason, Jennifer	6
Modecki, Courtney	16
Munzenrider, Zach	300
Price, Drew	75
Quarles, Peggy	11
Reilly, Megan	265
Remington, Courtney	7
Schnyer, Lauren	14

(cont.)

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PQA Approach and Estimated Costs
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Figure 2
Breakdown of Hours by PQA Staff (cont.)

Staff Person	Estimated Hours
Spain, Allison	23
Stickel, Tom	500
Trontoski, Cassie	300
Wallace, Tom	500
Total	2,611

PQA proposes a Time and Materials (T&M) Not-To-Exceed contract to perform the work described in this memorandum. Until January 23, 2009, PQA will use the T&M rates that were used under the previous ARB contract (Agreement No. 07-719). Effective January 24, 2009, PQA's T&M rates will increase by our standard 4% escalation rate, and will be valid through January 23, 2010 (PQA's annual raises are effective as of January 24 each year).

PQA will invoice ARB on a monthly basis based on the hours and ODC's incurred. With each invoice, PQA will provide a progress report which will detail the technical work performed during the period, any issues or problems encountered during the period, and work to be performed during the next reporting period. Please note that PQA's billing cycle reflects activities performed between the 24th and 23rd of a month, with invoices being delivered on or before the 5th day of the following month (e.g., reporting period would be September 24 through October 23, with an invoice being delivered by November 5). PQA requests payment within 30 days of receipt by ARB.

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October 15, 2008

John Bedard

Mr. Bedard will be an Environmental Analyst I for this procurement. His academic background includes a Bachelor of Arts in Environmental Science and Interdisciplinary Environmental Thought and Practice from the University of Virginia in 2006. Since joining PQA in 2007, Mr. Bedard has provided assistance with analytical projects involving greenhouse gas (GHG) emissions inventories and emissions trading. These projects involve analyzing reporting protocols and regulations, along with managing client expectations and translating these requirements into software additions. Mr. Bedard is also a key contributor and subject matter specialist on GHG protocols and calculations. He is engaged in GHG calculation methodology development and has supported the development of the calculation and interface infrastructure for several projects. Specifically, Mr. Bedard serves as an environmental data analyst and tester for the Emissions and Allowance Tracking System (EATS), a generic software application to support emissions trading programs for use by other countries and state programs. He supports the design and development of the EATS-based California Air Resources Board (ARB) Mandatory Emissions Reporting System. For this project, he provides assistance for requirements gathering, use case development, interface design, and business process documentation. He also manages client relations, designs user interface, and serves as a subject matter specialist for annual reporting flows. For the Climate Registry Information System (CRIS), also an EATS-based system, Mr. Bedard serves as a subject matter specialist for GHG calculations, provides software testing, and supports user interface design. He is also an environmental data analyst for the design and development of the U.S. Greenhouse Gas Inventory, a database and application to house and support EPA's U.S. Greenhouse Gas Inventory, submitted annually to the UNFCCC Secretariat as part of the U.S. obligation under the Framework Convention on Climate Change. Under this project, he is responsible for data analysis, user interface design, and software testing.

Zach Munzenrider

Mr. Munzenrider will be a Senior Programmer/Analyst II for this procurement. His academic background includes a Bachelor of Arts degree from Pennsylvania State University in 1990 and a Master of Arts degree from the University of Virginia in 1994. Mr. Munzenrider is a specialist in web/database system design, database modeling and implementation, technical writing and training. Mr. Munzenrider joined PQA in 2001 and has been assigned to PQA's systems development team as a senior programmer for the development of emissions trading registries under the Kyoto Protocol, including the Clean Development Management (CDM) Registry and the national Kyoto registry for New Zealand and Canada. For the U.S. EPA's Climate Change Division, he served as the technical lead and developer for the Emissions and Allowance Tracking System (EATS), a generic emissions trading software application developed by EPA to support emissions trading programs in other countries and agencies. Mr. Munzenrider has supported the customization of the EATS application for use as the New York Acid Deposition Allowance Tracking System (NADATS) for the New York State Department of Environmental Conservation and the Climate Registry Information System (CRIS) for The Climate Registry. Currently, Mr. Munzenrider provides web and database development for several applications supporting EPA's Clean Air Markets Division as well as serves as a developer for the EATS-based California Air Resources Board (ARB) Mandatory Emissions Reporting System, which will implement the State of California's AB-32 mandatory GHG reporting regulation. His

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technical expertise encompasses a wide range of skills including ColdFusion, JavaScript, Java, AJAX, Oracle and SQL server databases, web services, and XML.

Drew Price

Mr. Price will be a Project Manager for this procurement. His academic background includes a Bachelor of Science degree in Aerospace Engineering from the University of Virginia, where he graduated in 2000. Mr. Price joined PQA in August 2004 and is currently a project manager for systems development, including all projects involving customization of the Emissions and Allowance Tracking System (EATS) developed by PQA under contract to EPA. He is currently providing overall management and planning support for all EATS projects, which include the Climate Registry Information System (CRIS), the CO₂ Allowance Tracking System (COATS) for the Regional Greenhouse Gas Initiative, Inc., the New York Acid Deposition Allowance Tracking System (NADATS) for the New York State Department of Environmental Conservation, and the Mandatory Emissions Reporting System for the California Air Resources Board (ARB). Since joining PQA, Mr. Price has also managed the development and deployment of EPA's Data and Maps website for emission trading programs. He also served as co-project manager for the Emissions Collection and Monitoring Plan System (ECMPS), a software application that facilitates data submission to EPA as part of emissions trading programs under Part 75. In this role, he managed the design, development, and testing of an estimated 2,000 data checks that validate data submitted to the EPA. Mr. Price also provides data analysis and database development support for the Emissions and Data Analysis Trends (EDAT) tool, developed by the EPA to analyze emissions, meteorological, acid deposition, and air quality data. He has supported the implementation of new emissions trading programs under the Clean Air Interstate Rule and Clean Air Mercury Rule. Prior to PQA, Mr. Price worked for four years as a software development consultant for both public and private clients. His most recent role was as a manager for development of major data systems for the Department of Treasury. His technical skills include Oracle and SQL server databases, ASP, JavaScript, VB Script, and other programming languages.

Peggy Quarles

Ms. Quarles' role will be a Senior Consultant II for this procurement. Ms. Quarles is currently Senior Vice President and Manager of the Program Implementation Division at PQA. Her academic background includes a Bachelor of Arts degree from the University of North Carolina, where she graduated *Phi Beta Kappa* in 1972, and two years' attendance at the University of Virginia School of Law. Ms. Quarles also offers expert-level experience in the design and implementation of national and global emissions trading programs. Ms. Quarles is an experienced project manager of projects involving air pollution control program implementation, and information system design, development, and deployment. She is a recognized expert in the information system requirements for National Registries, the Clean Development Management (CDM) Registry, and the International Transaction Log (ITL) for the Kyoto Protocol. In her 24 years at PQA, Ms. Quarles has been the project manager of numerous projects, including two major information system reengineering efforts for EPA. She is also the project manager for the development of the Emissions and Allowance Tracking System (EATS) application for U.S.

EXHIBIT A, ATTACHMENT 1 Standard Agreement

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EPA and serves as a project manager or senior consultant for the development of all programs and applications based on EATS.

Megan Reilly

Ms. Reilly will be an Environmental Analyst II for this procurement. Her academic background includes a Bachelor of Arts in Political Science, where she graduated *Cum Laude* from Wake Forest University in 2004, as well as a Master of Public Policy from The George Washington University Trachtenberg School of Public Policy and Public Administration in 2007. Since joining PQA in 2008, Ms. Reilly has served as an analyst for systems based on the Emissions and Allowance Tracking System (EATS), a generic software application to support emissions trading programs for use by other countries and state programs. These projects include the CO₂ Allowance Tracking System (COATS) for the Regional Greenhouse Gas Initiative, Inc. and the Mandatory Emissions Reporting System for the California Air Resources Board (ARB). For these projects, Ms. Reilly provides assistance with requirements gathering, design, quality assurance, and user support. Ms. Reilly also has prior experience as a policy research assistant and legal assistant.

Tom Stickel

Mr. Stickel will be a Senior Programmer/Analyst II for this procurement. His academic background includes a Bachelor of Science in Information Systems from Purdue University in 1998 and a Software Engineering certificate from the University of Advancing Computer Technology in 1999. Mr. Stickel is a trained software engineer with 14 years experience with the architecting and development of multi-tiered web-based applications using Visual Basic, .Net, ColdFusion and Java technologies in SQL and Oracle environments. Since joining PQA in 2006, Mr. Stickel has been engaged in projects working with the U.S. EPA, and is accustomed to managing large volumes of emissions and inventory data. Specifically, he served as a lead developer for Data and Maps, the publicly accessible, web-based interface to data collected as part of EPA's emissions trading programs. He designed and developed standard reports, custom queries, GIS maps, graphs, and prepackaged data sets. Mr. Stickel also provided system support for the Applicability Determination Index, a web-based application displaying EPA's air program applicability determinations. Currently, Mr. Stickel is a developer for several systems based on the Emissions and Allowance Tracking System (EATS), a generic software application to support emissions trading programs for use by other countries and state programs. These systems include Canada's National Registry under the Kyoto Protocol for Environment Canada and the California Air Resources Board (ARB) Mandatory Emissions Reporting System. Mr. Stickel also has prior experience designing e-commerce portals, dynamic web applications and provided Enterprise Management solutions.

Cassie Trontoski

Ms. Trontoski will be a Senior Programmer/Analyst I for this procurement. Her academic background includes a Bachelor of Arts degree from Virginia Wesleyan College, where she graduated *Summa Cum Laude* in 1997, and a Master of Computer Science degree from the

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University of Virginia in 1997. Ms. Trontoski has over ten years experience working with large-scale information systems, including reengineering projects for U.S. EPA and international support projects. As a senior programmer for registry systems based on the Emissions and Allowance Tracking System (EATS), she offers expert knowledge of emissions trading program information systems requirements and the implementation of data exchange standards for the Kyoto Protocol. For the United Nations Framework Convention on Climate Change (UNFCCC) Secretariat, she has been the technical analyst developing the Web Service Description Language (WSDL) protocols, a key technical component of message exchange under the Kyoto Protocol. Ms. Trontoski has provided programming support for EATS-based systems including the Clean Development Management (CDM) Registry for the UNFCCC, the New York Acid Deposition Allowance Tracking System (NADATS), the New Zealand Emission Unit Register, the World Bank Carbon Asset Registry and Reporting System, the CO₂ Allowance Tracking System (COATS) for the Regional Greenhouse Gas Initiative, Inc., and the California Air Resources Board (ARB) Mandatory Emissions Reporting System.

Tom Wallace

Mr. Wallace will be a Senior Environmental Analyst I for this procurement. His academic background includes a Bachelor of Science in Environmental Science and Music from Allegheny College in 1997 and a Master of Earth Environmental Resources Management from the University of South Carolina in 1999. Mr. Wallace's technical qualifications include over ten years experience in database design and development and web implementation to support data-entry, data analysis, and report generation for large federal and private clients. Since joining PQA in 2007, Mr. Wallace has served as a senior quality assurance specialist and reports designer for projects involving data systems supporting emissions trading programs and the management of emissions reduction assets. Specifically, he provides technical support for the International Transaction Log (ITL) for the United Nations Framework Convention on Climate Change (UNFCCC) Secretariat and serves as a developer and report design specialist for numerous systems based on the Emissions and Allowance Tracking System (EATS), a generic software application to support emissions trading programs for use by other countries and state programs. These systems include the World Bank Carbon Asset Registry and Reporting System (CARS), the Climate Registry Information System (CRIS) for The Climate Registry, and Canada's National Registry under the Kyoto Protocol for Environment Canada, as well as the CO₂ Allowance Tracking System (COATS) for the Regional Greenhouse Gas Initiative, Inc., the Mandatory Emissions Reporting System for the California Air Resources Board (ARB), and Australia's emissions trading registry software solution that both meets Kyoto Protocol requirements and supports the operation of Australia's proposed domestic emissions trading scheme, the Carbon Pollution Reduction Scheme.

EXHIBIT B
Standard Agreement

BUDGET DETAIL AND PAYMENT PROVISIONS

1. Invoicing and Payment

- A. For services satisfactorily rendered, and upon receipt and approval of the invoices, the State agrees to compensate the Contractor for actual expenditures incurred in accordance with Exhibit A, Attachment 1 and Exhibit B, Attachment 1, which are both attached hereto and made a part of this Agreement.
- B. Invoices shall include the Agreement Number and shall be submitted in triplicate not more frequently than monthly in arrears to:

Air Resources Board
Accounting Section
P.O. Box 1436
Sacramento, CA 95812

2. Budget Contingency Clause

- A. It is mutually agreed that if the Budget Act of the current year and/or any subsequent years covered under this Agreement does not appropriate sufficient funds for the program, this Agreement shall be of no further force and effect. In this event, the State shall have no liability to pay any funds whatsoever to Contractor or to furnish any other considerations under this Agreement and Contractor shall not be obligated to perform any provisions of this Agreement.
- B. If funding for any fiscal year is reduced or deleted by the Budget Act for purposes of this program, the State shall have the option to either cancel this Agreement with no liability occurring to the State, or offer an agreement amendment to Contractor to reflect the reduced amount.

3. Prompt Payment Clause

Payment will be made in accordance with, and within the time specified in, Government Code Chapter 4.5, commencing with Section 927.

4. Travel

Any reimbursement for necessary travel and per diem shall be at rates not to exceed those amounts paid to State of California employees or verification supplied that indicates such rates are not available to Contractor. All travel reimbursements and per diem shall be at the rates set by Department of Personnel Administration.

EXHIBIT B, ATTACHMENT 1 Standard Agreement

October 1, 2008

PQA's Time and Materials Rates for ARB

Category	Rate (Oct. 1, 2008 – Jan. 23, 2009)	Rate (Jan. 24, 2009 – Jan. 23, 2010)*
Senior Consultant II	\$159.00	\$165.36
Senior Consultant I	\$96.00	\$99.84
Project Manager	\$94.00	\$97.76
Senior Programmer/Analyst II	\$96.00	\$99.84
Senior Programmer/Analyst I	\$88.00	\$91.52
Programmer/Analyst II	\$82.00	\$85.28
Programmer/Analyst I	\$71.00	\$73.84
Senior Quality Assurance Analyst II	\$93.00	\$96.72
Quality Assurance Analyst II	\$66.00	\$68.64
Quality Assurance Analyst I	\$50.00	\$52.00
Senior Environmental Analyst I	\$86.00	\$89.44
Environmental Analyst II	\$64.00	\$66.56
Environmental Analyst I	\$49.00	\$50.96
Communication Specialist II	\$56.00	\$58.24
Communications Specialist I	\$49.00	\$50.96
Contract Administrator	\$71.00	\$73.84
Assistant Contract Administrator	\$54.00	\$56.16

* Effective January 24, 2009, PQA's T&M rates will increase by our standard 4% escalation rate, and will be valid through January 23, 2010.