



AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING	PAGE OF PAGES 1 29
2. CONTRACT (Proc. Inst. Ident.) NO. HR0011-10-C-0113		3. EFFECTIVE DATE 06/24/2010		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. A85700	
5. ISSUED BY DARPA CMO ATTN: PATRICIA MATYSHELA 3701 NORTH FAIRFAX DRIVE ARLINGTON VA 22203-1714		CODE HR0011	6. ADMINISTERED BY (If other than Item 5) DCMA NORTHERN CALIFORNIA P.O. BOX 232, 700 EAST ROAD, BLDG 330 FRENCH CAMP CA 95231-0232		
7. NAME AND ADDRESS OF CONTRACTOR (No. street city, county, state and zip code) SRI INTERNATIONAL 333 RAVENSWOOD AVE MENLO PARK CA 94025-3483		8. DELIVERY [] FOB ORIGIN [X] OTHER (See below)			
		9. DISCOUNT FOR PROMPT PAYMENT			
		10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN:		ITEM	
CODE 03652		FACILITY CODE			
11. SHIP TO/MARK FOR DARPA CYNTHIA DANIELL ATTN: DEFENSE SCIENCES OFFICE 3701 NORTH FAIRFAX DRIVE ARLINGTON VA 22203-1714		CODE HR0011	12. PAYMENT WILL BE MADE BY OFAS COLUMBUS CENTER WEST ENTITLEMENT OPERATIONS P.O. BOX 182381 COLUMBUS OH 43215-2381		
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: [] 10 U.S.C. 2304(c) [] 41 U.S.C. 253(c) []		14. ACCOUNTING AND APPROPRIATION DATA See Schedule			
15A. ITEM NO.	15B. SUPPLIES/SERVICES	15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT
SEE SCHEDULE					
15G. TOTAL AMOUNT OF CONTRACT \$19,151,568.00					
16. TABLE OF CONTENTS					
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CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE					
17. [X] CONTRACTOR'S NEGOTIATED AGREEMENT Contractor is required to sign this document and return copies to issuing office. Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Anaphorisms are listed herein.)			18. [] AWARD (Contractor is not required to sign this document) Your offer on Solicitation Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award constitutes the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.		
19A. NAME AND TITLE OF SIGNER (Type or print) Mary E. Bastida, Contracts Manager			20A. NAME OF CONTRACTING OFFICER		
19B. NAME OF CONTRACTOR BY 			20B. 		
19C. DATE SIGNED 6/27/10			20C. DATE SIGNED 06/24/10		

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Prescribed by GSA
FAR (48 CFR) 53.214(a)

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	TOTAL EST. COST PLUS FIXED FEE
0001	<p>PACT Phases 2 & 3 CPFF The contractor shall furnish the necessary personnel and material as may be required to perform the work in accordance with Attachment 1, Statement of Work and the contractor's technical proposal entitled, "Chemical Identification for Surveillance and Tracking (ChemIST) Phases 2 and 3" dated 19 February 2010. FOB: Destination</p>			\$19,151,568
000101	<p>Funding for CLIN 0001 CPFF FOB: Destination AO No. A657/00</p> <p>ACRN AA</p>			\$9,036,694

ITEM NO	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	TOTAL EST. COST PLUS FIXED FEE
0002	Reports and other Deliverables CPFF The contractor shall provide reports and deliverables in accordance with Sections C-2 and F-2. Not Separately Priced (NSP) - Preparation costs included in CLIN 0001. FOB: Destination			NSP

Section C - Descriptions and Specifications

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C-1 Scope of Work

(a) The Contractor shall furnish the necessary personnel, materials, facilities, and other services as may be required to perform Contract Line Items (CLINs) 0001 and 0002, in accordance with the Statement of Work, Attachment 1 hereto. The work and services to be performed hereunder shall be subject to the requirements and standards contained in the Contractor's proposal entitled "Chemical Identification for Surveillance and Tracking (ChemIST)" dated 19 February 2010, copies of which are in the possession of both parties.

(b) In the event of an inconsistency between the provisions of this contract and the Contractor's proposal, the inconsistency shall be resolved by giving precedence in the following order: (1) the contract, (2) the attachments to the contract, and then (3) the Contractor's proposal.

C-2 Reports and Other Deliverables

(a) The Contractor shall submit the following reports and other deliverables in accordance with the delivery schedule set forth in Section F. Reports and other deliverables shall be submitted in writing, as defined in FAR 2.101, or as specified below:

(1) R&D Status Report (Both for Phases 2 and 3)

This brief narrative, not to exceed five pages in length, shall contain the following:

- (i) For first report only; the date work actually started.
- (ii) Description of progress during the reporting period, supported by reasons for any change in approach reported previously
- (iii) Planned activities and milestones for the next reporting period.
- (iv) Description of any major items of experimental or special equipment purchased or constructed during the reporting period.
- (v) Notification of any changes in key personnel associated with the contract during the reporting period.
- (vi) Summary of substantive information derived from noteworthy trips, meetings, and special conferences held in connection with the contract during the reporting period.
- (vii) Summary of all problems or areas of concern.
- (viii) Related accomplishments since last report.
- (ix) Fiscal status, to include reporting of summary level financial data in the following format:
(next page)

R&D STATUS REPORT
PROGRAM FINANCIAL STATUS

Work Breakdown		Cumulative to Date			At Completion	
Structure or Task Element	Planned Expend	Actual Expend	% Budget Compl	At Compl	Latest Revised Estimate	Remarks
Subtotal: _____						
Management Reserve: _____						
Or Unallocated Resources: _____						
TOTAL: _____						

Note: Budget at completion changes only with the amount of any scope changes. (Not affected by underrun or overrun)

Based on currently authorized work:

Is current funding sufficient for the current fiscal year (FY)? (Explain in narrative if "NO")

YES NO

What is the next FY funding requirement at current anticipated levels?

\$ _____

Have you included in the report narrative any explanation of the above data and are they cross-referenced?

YES NO

- (2) Kick-Off Briefing Materials and Minutes (Both for Phases 2 and 3)
- (3) Quarterly Program Review (QPR) Briefing Materials and Minutes (Both for Phases 2 and 3)
- (4) Component Instrument Specifications and overall ChemIST System Design
- (5) ChemIST Generation (GEN1) System Design Documentation
- (6) Assembled, integrated, fully-functional ChemIST System consisting of the Stage A and Stage B instruments
- (7) Test Demonstration Documentation (Both for Phases 2 and 3)
- (8) Final Review Briefing Materials and Minutes (Both for Phases 2 and 3)
- (9) Test Demonstration Documentation (Both for Phases 2 and 3)
- (10) Final Report

This report shall document the results of the complete effort and should be delivered at the completion of the contract. If the Government chooses to exercise the options under this contract, the due date for the final report is extended accordingly. Title pages shall include a disclaimer worded substantially as follows:

"The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the official policies, either expressly or implied, of the Defense Advanced Research Projects Agency or the U.S. Government."

The Final Technical Report summary shall include:

Task Objectives
 Technical Problems
 General Methodology (i.e., literature review, laboratory experiments, surveys, etc.)
 Technical Results
 Important Findings and Conclusions
 Significant Hardware Development
 Special Comments
 Implications for Further Research
 Standard Form 298, August 1998

(b) Reports delivered by the Contractor in the performance of the contract shall be considered "Technical Data" as defined in Section I contract clauses entitled "Rights in Technical Data - Noncommercial Items" and "Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation."

(c) Bulky Reports shall be mailed by other than first-class mail unless the urgency of submission requires use of first-class mail. In this situation, one copy shall be mailed first-class and the remaining copies forwarded by less than first-class.

(d) All papers and articles published as a result of DARPA sponsored research shall include a statement reflecting the sponsorship. In addition, a bibliography of the titles and authors of all such papers are to be included in the Final Technical Report

(1) The cover or title page of each of the above reports or publications prepared, will have the following citation:

Sponsored by
 Defense Advanced Research Projects Agency
 Strategic Technology Office (STO)
 Program: Panoptic Analysis of Chemical Traces (PACT) Phases II and III
 ARPA Order No. A657/00, Program Code: 0310
 Issued by DARPA/CMO under Contract No. HR0011-10-C-0113

(2) The title page shall include a disclaimer worded substantially as follows:

“The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the official policies, either expressly or implied, of the Defense Advanced Research Projects Agency or the U.S. Government.”

(3) All technical reports must (i) be prepared in accordance with American National Standards Institute (ANSI) Standard Z39.18; (ii) include a Standard Form 298, August 1998; and (iii) be marked with an appropriate Distribution Statement.

Section D - Packaging and Marking

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D-1 Packaging and Marking

All items shall be preserved, packaged, packed and marked in accordance with best commercial practices to meet the packing requirements of the carrier, and to ensure safe delivery at destination.

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
000101	N/A	N/A	N/A	N/A
0002	Destination	Government	Destination	Government

CLAUSES INCORPORATED BY REFERENCE

52.246-8	Inspection Of Research And Development Cost Reimbursement	MAY 2001
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Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	24 mths. ADC		DARPA CYNTHIA DANIELL ATTN: DEFENSE SCIENCES OFFICE 3701 NORTH FAIRFAX DRIVE ARLINGTON VA 22203-1714 571-218-4504 FOB: Destination	HR0011
000101	N/A		N/A	N/A
0002	24 mths. ADC		(SAME AS PREVIOUS LOCATION) FOB: Destination	HR0011

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52.247-34	F.O.B. Destination	NOV 1991
52.247-55	F.O.B. Point For Delivery Of Government-Furnished Property	JUN 2003

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F-1 Term of Contract

The term of the contract commences on the effective date of the contract and continues through twenty-four (24) months thereafter.

F-2 Reports and Other Deliverables

(a) Delivery of all reports and other deliverables shall be made to the addressee specified in F-3 entitled "Report Distribution" in accordance with the following:

Phase 2 Deliverables	Deliverable Description	Delivery Date
Monthly Progress Reports	Cost, schedule, and technical status. This includes (1) earned-value management reporting, adapted to projects with high-R&D content, including milestone tracking, (2) risk	Monthly (first MPR due 1 month after contract award and monthly thereafter)

	and opportunity planning, (3) technical updates across all tasks, (4) key personnel and contact information, (5) notes or minutes from contacts with the Government PM team, and (6) the action item list. Technical updates will provide key experimental results, analysis of those results, implications for the ChemIST system, and plans for the following month.	
Kick-off briefing materials and minutes	Briefing materials and minutes for the Kick-Off. The minutes will document the meeting's location, date, participants, discussion, decisions, and action items.	Within 3 days after completion of the Kick-off Meeting
Quarterly Program Review (QPR) briefing materials and minutes	Briefing materials for QPR and minutes. The minutes will document the meeting's location, date, participants, discussion, decisions, and action items.	Within 3 days after completion of a QPR Meeting
Final Review briefing materials and minutes	Briefing materials for Final Review and minutes. The minutes will document the meeting's location, date, participants, discussion, decisions, and action items.	Within 3 days after completion of the Final Review Meeting
Component instrument specifications and overall ChemIST system design	The Component specifications and overall system design will be in accordance with SOW Task 2.2.	Within 3 days after completion of the Status Review Meeting (QPR2, 6 months after contract award)
ChemIST Generation 1 (GEN1) system design documentation	ChemIST Generation 1 (GEN1) system design documentation in accordance with SOW Task 2.4.	Within 3 days after the GEN1 Characterization Test Readiness Review (TRR) Meeting (QPR6, 18 months after contract award)
Assembled, integrated, fully-functional ChemIST system consisting of the Stage A and Stage B instruments	Consistent with SOW Task 2.3 this will include ranked composition of the 300 government-furnished samples, accuracy and fidelity values for the analyses, and the relative amount of material that is not in the library.	End of contract period of performance (24 months after contract award; after completion of the Phase 2 test demonstration)

Final Report	The final report will include functional baseline (product description sheet, concepts of operation, technical requirements document, functional flow block diagram, schematic block diagram, and the cost, time, mass and error budgets), design drawings and/or computer-aided design files, algorithms, and an assessment of the remaining risk items	End of contract period of performance (24 months after contract award)
Phase 2 test demonstration documentation	Results of the Phase 2 test demonstration.	End of contract period of performance (24 months after contract award; after completion of the Phase 2 test demonstration)

Phase 3 Deliverables	Deliverable Description	Delivery Date
Monthly Progress Reports (MPRs)	Cost, schedule, and technical status. This includes (1) earned-value management reporting, adapted to projects with high-R&D content, including milestone tracking, (2) risk and opportunity planning, (3) technical updates across all tasks, (4) key personnel and contact information, (5) notes or minutes from contacts with the Government PM team, and (6) the action item list. Technical updates will provide key experimental results, analysis of those results, implications for the ChemIST system, and plans for the following month.	Monthly (first MPR due 1 month after contract award and monthly thereafter)
Kick-off briefing materials and minutes	Briefing materials and minutes for the Kick-Off. The minutes will document the meeting's location, date, participants, discussion, decisions, and action items.	Within 3 days after completion of the Kick-off meeting
Quarterly Program Review (QPR) briefing materials and minutes	Briefing materials for QPR and minutes. The minutes will document the meeting's location, date, participants, discussion, decisions, and action items.	Within 3 days after completion of a QPR Meeting
Final Review briefing materials and minutes	Briefing materials for Final Review and minutes. The minutes will document the meeting's location, date, participants, discussion,	Within 3 days after completion of the Final Review Meeting

	decisions, and action items.	
Final Report	The final report including functional baseline (product description sheet, concepts of operation, technical requirements document, functional flow block diagram, schematic block diagram, and the cost, time, mass and error budgets), design drawings and/or computer-aided design files, algorithms, and an assessment of the remaining risk items. Please note that the final report for the Phase 2 and Phase 3 effort can be combined into a single report if approved in advanced by the DARPA PM.	End of contract period of performance (24 months after contract award)
Phase 3 test demonstration documentation	Results of the Phase 3 test demonstration.	End of contract period of performance (24 months after contract award; after completion of the Phase 3 test demonstration)

F-3 Report Distribution

(a) DARPA/Defense Sciences Office
 DARPA Program Manager
 Attn: Dr. Cynthia Daniell
 3701 North Fairfax Drive
 Arlington, VA 22203-1714
 Email: (cynthia.daniell@darpa.mil)
 (one copy each report)

(b) DARPA/STO
 Attn: Patrick Bailey, ADPM
 3701 North Fairfax Drive
 Arlington, VA 22203-1714
 E-mail: (Patrick.Bailey@darpa.mil)
 (one copy each report)

(c) DARPA/CMO
 Attn: Patricia Matyskiela
 3701 North Fairfax Drive
 Arlington, VA 22203-1714
 E-mail: (patricia.matyskiela@darpa.mil)
 (one copy each report)

(d) Contracting Officer's Representative (COR)
 Attn: Dr. Kevin John Johnson
 Naval Research Laboratory
 Chemistry Division, Code 6181
 Building 207, Room 302A
 4555 Overlook Avenue, SW
 Washington, DC 20375-5342

E-mail: (kevin.johnson@nrl.navy.mil)
(one copy each report)

(e) DARPA/Library
3701 North Fairfax Drive
Arlington, VA 22203-1714
Email: library@darpa.mil
(one copy of the Final Technical Report)

(f) Defense Technical Information Center

(1) Email: TR@dtic.mil
(one electronic copy of the Final Technical Report, if unclassified)

OR

(2) Attn: DTIC-BCS
8725 John J. Kingman Road, Suite 0944
Fort Belvoir, VA 22060-0944
(two hard copies of the Final Technical Report if unclassified)

Note 1: Hard-copy distribution to those persons in a) through d) shall be for the Final Report only. All other report distributions shall be made via E-mail.

Note: For the Final Technical Report(s), the contractor must also comply with the distribution requirements of DFARS 252-235-7011, as applicable.

F-4 Notice Regarding Late Delivery

In the event the Contractor anticipates difficulty in complying with the contract delivery schedule, the Contractor shall immediately notify the Contracting Officer in writing, giving pertinent details, including the date by which it expects to make delivery; PROVIDED, however, that this date shall be informational only in character and the receipt thereof shall not be construed as a waiver by the Government of any contract delivery schedule, or any rights or remedies provided by law or under this contract.

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 9700400 1320 A657 P0310 2525 DPAC 0 5501 S12136 62383E
 AMOUNT: \$9,036,694.00
 CIN 00000000000000000000000000000000: \$9,036,694.00

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G-1 Procuring Office Representative

The Procuring Office Representative is Patricia Matyskiela, DARPA/CMO, 3701 North Fairfax Drive, Arlington, VA 22203-1714, telephone: 571-218-4686, e-mail: patricia.matyskiela@darpa.mil.

G-2 Electronic Submission of Payment Requests

(a) Invoices for goods received or services rendered under this contract shall be submitted electronically through Wide Area Work Flow – Receipt and Acceptance (WAWF):

(1) Vendors that have never used WAWF shall follow the directions in the WAWF Vendor Getting Started Guide available at the following website: <http://www.dfas.mil/contractorpay/electroniccommerce/wideareaworkflow.html>. This website also contains links for Vendor training and practice. Additional support can be obtained by calling WAWF Customer Service at 866-618-5988.

(2) Back up documentation (such as timesheets, monthly status reports, etc.) can be included and attached to the invoice in WAWF. Attachments should be in PDF format, but Attachments created in any Microsoft Office product may be attached. Total limit for the size of files per invoice is 5 megabytes.

(b) The following information, regarding invoice routing DoDAAC's, must be entered for completion of the invoice in WAWF:

WAWF Invoice Type:	Cost Voucher
Issuing Office DoDAAC	HR0011, ext. 05
Admin Office DoDAAC	S0507A
Service Approver DoDAAC (Cost Voucher)	S0507A
DCAA Office DoDAAC (Used on Cost Vouchers only)	HAA052
Paying Office DoDAAC	HQ0339

(c) Cost Vouchers from Contractors approved by DCAA for direct billing will be directly routed to DFAS. Cost Vouchers from Contractors not approved for direct billing will be routed to DCAA for approval before the Cost Voucher is routed to DFAS. All Final Cost Voucher submissions will be routed to the Service Approver for approval. The DCAA office for this award is:

DCAA Peninsula Branch Office
 DoDAAC: HAA052

480 San Antonio Road
Suite 150
Mountain View, CA 94040-1218

Phone No: (650) 917-5000
Fax No: (650) 917-5050
E-mail: dcaa-fao4281@dcaa.mil

(d) For each invoice/cost voucher submitted for payment, the contractor shall also e-mail the WAWF automated invoice notice directly to the following points of contact:

Name	E-mail	Phone	Role
Patricia Matyskiela	patricia.matyskiela@darpa.mil	(571) 218-4686	Contracting Officer

G-3 Delegation of Authority for Contract Administration

DCMA Northern California(DoDAAC: S0507A), is hereby designated as the Contracting Officer's authorized representative for administering this contract in accordance with current directives.

G-4 Contracting Officer's Representative (COR)

- (a) Performance of work under this contract shall be subject to the technical direction of:

Dr. Kevin John Johnson
Naval Research Laboratory
Chemistry Division, Code 6181
Building 207, Room 302A
4555 Overlook Avenue, SW
Washington, DC 20375-5342

Phone: 202 404-5407
Fax: 202 7671716
E-mail: kevin.johnson@nrl.navy.mil

Such technical direction includes those instructions to the Contractor necessary to accomplish the Statement of Work. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or to change the specifications of the contract.

- (b) Technical direction shall not include any direction which:

- (1) Constitutes additional work outside the scope of work;
- (2) Constitutes a change as defined in Section I contract clause entitled "Changes";
- (3) In any manner causes an increase or decrease in the total estimated cost or the time required for contract performance; or
- (4) Changes any of the stated terms, conditions, or specifications of the contract.

G-5 Payment Instructions for Multiple Accounting Classification Citations

If there is more than one ACRN within a contract line item, the payment office will make payment using the oldest fiscal year appropriations first, exhausting all funds in the previous fiscal year before disbursing from the next fiscal year. In the event there is more than one ACRN associated with the same fiscal year, the payment amount shall be disbursed from each ACRN within a fiscal year in the same proportion as the amount of funding obligated for each ACRN within the fiscal year.

G-6 Incremental Funding

It is hereby understood and agreed upon that the contract will not exceed a total cost plus fixed fee of \$19,151,568; including an estimated cost of [REDACTED] and a fixed fee of [REDACTED]. The total amount presently available for payment and allotted to the contract is \$9,036,694; including an estimated cost of [REDACTED] and a fixed fee of [REDACTED]. It is estimated that the funding presently allotted of \$9,036,694 is sufficient to permit the contractor's performance through 28 February 2011. Except in accordance with the Section I clause FAR 52.232-22, "Limitation of Funds," no legal liability of the part of the Government for payment of any money in excess of \$9,036,694 shall arise unless and until additional funds are made available by the Contracting Officer through a modification to this contract.

G-7 Payment of Cost and Fee

(a) As consideration for the proper performance of work required under this contract, the Contractor shall be paid as follows:

(1) Costs, as provided for under Section I contract clause titled "Allowable Cost and Payment" not to exceed the amount set forth as "Total Estimated Cost" in Section B, and subject further to those Section I clauses entitled "Limitation of Cost" or "Limitation of Funds".

(2) A fixed fee in the amount set forth as "Fixed Fee" in Section B, in accordance with the Section I contract clause entitled "Fixed Fee". The Contractor may bill on each invoice the amount of the fixed fee bearing the same percentage to the total fixed fee as the amount of cost billed bears to the total estimated cost.

Section H - Special Contract Requirements

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H-1 Contracting Officer

Notwithstanding any other provision of this contract, the Contracting Officer is the only individual authorized to redirect the effort or in any way amend or modify any of the terms of this contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statement of work, a modification must be issued in writing and signed by the Contracting Officer.

H-2 Type of Contract

This is a cost plus fixed fee (completion) type of contract.

H-3 Public Release or Dissemination of Information

(1) With the exception of the work to be performed by University subcontractor(s) as noted at subparagraph (3) below, DARPA expects the work performed under this contract will NOT be fundamental research, and it is, therefore, subject to the following publication restrictions:

There shall be no dissemination or publication, except within and between the Contractor and any subcontractors, of information developed under this contract or contained in the reports to be furnished pursuant to this contract without prior written approval, which will be communicated to the Contractor by email through the DARPA Public Release Center (PRC) at PRC@darpa.mil. All technical reports will be given proper review by appropriate authority to determine which Distribution Statement is to be applied prior to the initial distribution of these reports by the Contractor. These restrictions must be flowed down to all subcontractors, with the exception of the subcontractors listed in paragraph (3) of this clause. Any publications shall incorporate an Acknowledgement of Support and Disclaimer in accordance with DFARs 252.235-7010.

(2) When submitting material for written approval for open publication as described in subparagraph (a) above, the Contractor must submit a request for public release request to the PRC and include the following information: 1) Document Information: document title, document author, short plain-language description of technology discussed in the material (approx 30 words), number of pages (or minutes of video) and document type (briefing, report, abstract, article, or paper); 2) Event Information: event type (conference, principle investigator meeting, article or paper), event date, desired date for DARPA's approval; 3) DARPA Sponsor: DARPA Program Manager, DARPA office, and contract number; and 4) Contractor's Information: POC name, e-mail and phone. Allow four weeks for processing; due dates under four weeks require a justification. Unusual electronic file formats may require additional processing time. Requests can be sent either via e-mail to PRC@darpa.mil or via hard copy to 3701 North Fairfax Drive, Arlington VA 22203-1714, telephone (571) 218-4235. Refer to www.darpa.mil/prc for information about DARPA's public release process.

(3) At this time, DARPA expects the work performed under this contract by the below listed University subcontractor(s) to be fundamental research, and it is, therefore, not subject to publication restrictions. Papers resulting from unclassified contracted fundamental research are exempt from prepublication controls and requirements, pursuant to DoD Instruction 5230.27 dated October 6, 1987. Should the character of the research change during performance of this subaward so that the research is no longer considered fundamental, the contract between the prime and University subcontractor listed below will be modified to impose the restrictions on public release and dissemination of information that apply to those research efforts that are not considered fundamental research.

Subcontractor	Statement of Work Title and Date
University of Washington	"Research Area Ideas for Panoptic Analysis of Trace Chemicals (PACT) Program" dated 22 January 2010

H-4 Key Personnel

(a) The Contractor shall notify the Contracting Officer prior to making any change in key personnel. Key personnel are defined as follows:

Key Personnel	Title	Organization
(b)(4)		

(b) The Contractor must demonstrate that the qualifications of the prospective personnel are equal to or better than the qualifications of the personnel being replaced. Notwithstanding any of the foregoing provisions, key personnel shall be furnished unless the Contractor has demonstrated to the satisfaction of the COR that the qualifications of the proposed substitute personnel are equal to or better than the qualifications of the personnel being replaced.

H-5 Restrictions on Printing

Unless otherwise authorized in writing by the Contracting Officer, reports, data, or other written material produced using funds provided by this contract and submitted hereunder shall be reproduced only by duplicating processes and shall not exceed 5,000 single page reports or a total of 25,000 pages of a multiple-page report. These restrictions do not preclude the writing, editing, preparation of manuscript or reproducible copy of related illustrative materials if required as part of this contract, or incidental printing such as forms or materials necessary to be used by the Contractor to respond to the terms of the contract.

H-6 Contractor Representations and Certifications

The Contractor's Representations and Certifications dated 02 June 2010 (ORCA submission), and as supplemented on 04 June 2010, are incorporated herein by reference.

H-7 Insurance Schedule

The Contractor shall maintain the types of insurance listed in FAR 28.307-2 (a), (b) and (c), with the minimum amounts of liability indicated therein. The types of insurance coverage listed in paragraphs (d) and (e) shall also be maintained when applicable.

H-8 Travel

(a) Reimbursement for travel-related expenses shall be in accordance with the Contractor's approved travel policy. The Federal Travel Regulations, Joint Travel Regulations (JTR), and Standardized Regulations as stated in FAR 31.205-46 will be used as a guide in determining reasonableness of per diem costs. Costs for travel shall be allowable subject to the provisions of FAR 31.205-46.

(b) In connection with direct charge to the contract of travel-related expenses, the Contractor shall hold travel to the minimum required to meet the objectives of the contract, and substantial deviations from the amount of travel agreed to during contract negotiation shall not be made without the authorization of the Contracting Officer.

When applicable, the Contractor shall notify the COR of proposed travel of an employee beyond that agreed to during negotiations.

(c) Approval of the Contracting Officer shall be obtained in advance for attendance by personnel at training courses, seminars, and other meetings not directly related to contract performance if the costs for the courses, seminars, and other meetings are charged to the contract.

(d) All foreign travel shall be authorized and approved in advance, in writing, by the Contracting Officer. Request for such travel must be submitted to the Contracting Officer at least 30 days in advance of traveler's anticipated departure date, and shall include traveler's itinerary of United States Flag Air Carriers.

H-9 Metric System

(a) The Defense Advanced Research Projects Agency (DARPA) will consider the use of the metric system in all of its activities consistent with operational, economical, technical and safety requirements.

(b) The metric system will be considered for use in all new designs. When it is deemed not to be in the best interest of the DoD to provide metric design, justification shall be provided.

(c) Physical and operational interfaces between metric items and U.S. customary items will be designed to assure that interchangeability and interoperability will not be affected.

(d) Existing designs dimensioned in U.S. customary units will be converted to metric units only if determined to be necessary or advantageous. Unnecessary retrofit of existing systems with new metric components will be avoided where both the new metric and existing units are interchangeable and interoperable. Normally, the system of measurement in which an item is originally designed will be retained for the life of the item.

(e) During the metric transition phase hybrid metric and U.S. customary designs will be necessary and acceptable. Material components, parts, subassemblies, and semi-fabricated material, which are of adequate or when it is otherwise specifically determined to be in the best interest of the Department of Defense. Bulk materials will be specified and accepted in metric units when it is expedient or economical to do so.

(f) Technical reports, studies, and position papers, (except those pertaining to items dimensioned in U.S. customary units) will include metric units of measurement in addition to or in lieu of U.S. customary units. With respect to existing contracts, this requirement applies only if such documentation can be obtained without an increase in contract costs.

(g) Use of the dual dimensions (i.e., both metric and U.S. customary dimensions) on drawings will be avoided unless it is determined in specific instances that such usage will be beneficial. However, the use of tables on the document to translate dimensions from one system of measurement to the other is acceptable.

H-10 Consent to Subcontract

(a) Pursuant to FAR 35.009, "Subcontracting Research and Development Effort," the Contracting Officer hereby acknowledges receiving advance notification of the contractor's intent to place subcontracts with the following:

Honeywell Laboratories
Daylight Solutions, Inc.
ACD Laboratories

(b) Consent to subcontract must be obtained from the Administrative Contracting Officer in accordance with the General Provisions entitled "Subcontracts (JUN 2007)," FAR 52.244-2, as required.

H-11 Small Business Subcontracting Plan and Goals

The Contractor's Master Subcontracting Plan which was approved by the Administrative Contracting Officer on 15 May 2009 covering a three period following approval by the ACO and the Individual Subcontracting Plan dated 18 June 2010, are incorporated herein and made a part of this contract by reference.

H-12 Proprietary Technical Data and Computer Software

Any deliverable technical data or computer software developed or generated at private expense and considered to be proprietary by the Contractor or subcontractors shall be delivered in accordance with DFARS 252.227-7013 and 252.227-7014. A list of such data and/or software is incorporated into the contract as Attachment No. 2.

H-13 Contractor-Acquired Property (Equipment)

(a) The Contractor is authorized to acquire the items of equipment listed in Attachment 3 (or equivalent) which are needed to accomplish this contract.

(b) The costs incurred by the Contractor in acquiring the equipment listed in paragraph (a) above shall be considered allowable costs under the contract provided that the total net amount of the equipment does not exceed \$2,140,346. The Contractor shall have no obligation to acquire equipment and the Government shall have no obligation to reimburse any amount for equipment in excess of the amount set forth above unless the contract is modified to increase this amount.

(c) The equipment listed above shall be considered Government Property and shall be subject to the provisions of FAR 52.245-1 (DEV), Alt II, incorporated by reference in Section I.

(d) The Contractor shall not use Contractor-acquired property listed above for work other than that performed pursuant to this contract unless so authorized in writing by the Contracting Officer.

H-14 Contractor-Acquired Property (Special Tooling)

(a) The Contractor is authorized to acquire the following items of special tooling (or equivalent) which are needed to accomplish this contract:

Items To Be Acquired	Acquired by	Qty	Unit Cost	Total
Flow Controllers for Hydrogen	Honeywell Labs	4	\$1,500	\$6,000

(b) The costs incurred by the Contractor in acquiring the special tooling listed in paragraph (a) above shall be considered allowable costs under the contract provided that the total net amount of the special tooling does not

exceed \$6,000. The Contractor shall have no obligation to acquire special tooling and the Government shall have no obligation to reimburse any amount for special tooling in excess of the amount set forth above unless the contract is modified to increase this amount.

(c) The special tooling listed above shall be considered Government Property and shall be subject to the provisions of FAR 52.245-1 (DEV), Alt II, incorporated by reference in Section I.

(d) The Contractor shall not use Contractor-acquired property listed above for work other than that performed pursuant to this contract unless so authorized in writing by the Contracting Officer.

H-15 Contractor Acquired Property (IT)

(a) Performance of this contract will require use of the information technology (IT) resources listed in Attachment 4, acquisition of which (or equivalent) is hereby authorized.

(b) The costs incurred by the Contractor in acquiring the IT listed in paragraph (a) above shall be considered allowable costs under the contract provided that the total net amount of the IT does not exceed \$72,803. The Contractor shall have no obligation to acquire IT resources and the Government shall have no obligation to reimburse any amount for IT resources in excess of the amount set forth above unless the contract is modified to increase this amount.

(c) The IT resources listed above shall be considered Government Property and shall be subject to the provisions of FAR 52.245-1 (DEV), Alt II, incorporated by reference in Section I.

(d) The Contractor shall not use Contractor acquired property listed above for work other than that performed pursuant to this contract unless so authorized in writing by the Contracting Officer.

H-16 Government Furnished Property

The contractor is hereby authorized to use all government property in its possession residual to DARPA Contract HR0011-09-C-0049 (see Attachment 5). Accountability of said property is hereby transferred to this contract at no additional cost to the Government.

H-17 Contractor Code of Business Ethics

The "agency Office of the Inspector General" referenced in FAR clause 52.203-13, "Contractor Code of Business Ethics" (DEC 2008) contained in Section I of this Contract, shall be the Department of Defense Office of the Inspector General (DoD OIG). Contact information is as follows:

Office of the Inspector General
United States Department of Defense
Investigative Policy and Oversight
Contract Disclosure Program
400 Army Navy Drive, Suite 1037
Arlington, VA 22202-4704
Toll Free Telephone: 866-429-8011

H-18 Contractor Performance Information

Contractor performance information for this contract will be collected in the Contractor Performance Assessment and Reporting System (CPARS) web-enabled tool. The contractor designated representative is:

Ms. Mary Bastida
Contracts Manager

E-mail: mary.bastida@sri.com
Phone: 650 859 5508
Fax: 650 859 2829

Only this individual will be granted access to the CPARS website (<http://cpars.navy.mil/>) to review individual assessment reports as they are prepared by the Assessing Official, prior to their being finalized and posted.

The Contractor will be given 30 days to comment on the assessment report prior to its being finalized. Should the Contractor nonconcur with the Assessing Official's report, the report will be reviewed by the appropriate Reviewing Official prior to being finalized. The Contractor will be informed of the Reviewing Official's comments, and the report will be finalized. There will be no further opportunity for Contractor comment.

H-19 Invention Disclosure and Reports

All written communications required for invention disclosures and reports shall be submitted to the Administrative Contracting Officer (ACO). All unclassified required reporting shall be accomplished using the i-Edison.gov reporting website (<http://s-edison.info.nih.gov/i-Edison/>).

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUL 2004
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	SEP 2006
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	SEP 2007
52.203-13	Contractor Code of Business Ethics and Conduct	APR 2010
52.203-14	Display of Hotline Poster(s)	DEC 2007
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.204-7	Central Contractor Registration	APR 2008
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	SEP 2006
52.215-2	Audit and Records--Negotiation	MAR 2009
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.215-10	Price Reduction for Defective Cost or Pricing Data	OCT 1997
52.215-12	Subcontractor Cost or Pricing Data	OCT 1997
52.215-13	Subcontractor Cost or Pricing Data--Modifications	OCT 1997
52.215-14	Integrity of Unit Prices	OCT 1997
52.215-15	Pension Adjustments and Asset Reversions	OCT 2004
52.215-16	Facilities Capital Cost of Money	JUN 2003
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions	JUL 2005
52.215-21	Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data--Modifications	OCT 1997
52.216-7	Allowable Cost And Payment	DEC 2002
52.216-8	Fixed Fee	MAR 1997
52.219-4	Notice of Price Evaluation Preference for HUBZone Small Business Concerns	JUL 2005
52.219-8 (DEV)	Utilization of Small Business Concerns (DEVIATION)	MAY 2004
52.219-9 (Dev)	Small Business Subcontracting Plan (Deviation)	APR 2008
52.219-16	Liquidated Damages-Subcontracting Plan	JAN 1999
52.219-28	Post-Award Small Business Program Rerepresentation	APR 2009
52.222-3	Convict Labor	JUN 2003
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	MAR 2007
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-50	Combating Trafficking in Persons	FEB 2009
52.222-54	Employment Eligibility Verification	JAN 2009
52.223-6	Drug-Free Workplace	MAY 2001
52.223-14	Toxic Chemical Release Reporting	AUG 2003

52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.226-1	Utilization Of Indian Organizations And Indian-Owned Economic Enterprises	JUN 2000
52.227-1 Alt I	Authorization And Consent (Dec 2007) - Alternate I	APR 1984
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	DEC 2007
52.227-11	Patent Rights--Ownership By The Contractor	DEC 2007
52.228-7	Insurance--Liability To Third Persons	MAR 1996
52.230-2	Cost Accounting Standards	OCT 2008
52.230-6	Administration of Cost Accounting Standards	MAR 2008
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-17	Interest	OCT 2008
52.232-20	Limitation Of Cost	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.232-23	Assignment Of Claims	JAN 1986
52.232-25	Prompt Payment	OCT 2008
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	OCT 2003
52.233-1 Alt I	Disputes (Jul 2002) - Alternate I	DEC 1991
52.233-3 Alt I	Protest After Award (Aug 1996) - Alternate I	JUN 1985
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.242-1	Notice of Intent to Disallow Costs	APR 1984
52.242-3	Penalties for Unallowable Costs	MAY 2001
52.242-4	Certification of Final Indirect Costs	JAN 1997
52.242-13	Bankruptcy	JUL 1995
52.242-15 Alt I	Stop-Work Order (Aug 1989) - Alternate I	APR 1984
52.243-2 Alt V	Changes--Cost-Reimbursement (Aug 1987) - Alternate V	APR 1984
52.244-2	Subcontracts	JUN 2007
52.244-5	Competition In Subcontracting	DEC 1996
52.244-6	Subcontracts for Commercial Items	APR 2010
52.245-1 (Dev)	Government Property (Deviation)	JUN 2007
52.245-1 Alt II	Government Property (Jun 2007) Alternate II	JUN 2007
52.245-9	Use And Charges	JUN 2007
52.246-23	Limitation Of Liability	FEB 1997
52.247-1	Commercial Bill Of Lading Notations	FEB 2006
52.249-6	Termination (Cost Reimbursement)	MAY 2004
52.249-14	Excusable Delays	APR 1984
52.251-1	Government Supply Sources	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7000	Requirements Relating to Compensation of Former DoD Officials	JAN 2009
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	DEC 2008
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	JAN 2009
252.204-7000	Disclosure Of Information	DEC 1991
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004 Alt A	Central Contractor Registration (52.204-7) Alternate A	SEP 2007
252.204-7006	Billing Instructions	OCT 2005
252.204-7008	Export-Controlled Items	APR 2010
252.205-7000	Provision Of Information To Cooperative Agreement Holders	DEC 1991
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	DEC 2006
252.211-7003	Item Identification and Valuation	AUG 2008

252.211-7007	Reporting of Government-Furnished Equipment in the DoD Item Unique Identification (IUID) Registry	NOV 2008
252.215-7000	Pricing Adjustments	DEC 1991
252.215-7002	Cost Estimating System Requirements	DEC 2006
252.215-7004	Excessive Pass-Through Charges	MAY 2008
252.219-7003 (Dev)	Small Business Subcontracting Plan (DoD Contracts) (Deviation)	APR 2007
252.225-7001 (Dev)	Buy American Act and Balance of Payments Program (Deviation)	JAN 2009
252.225-7002	Qualifying Country Sources As Subcontractors	APR 2003
252.225-7004	Report of Intended Performance Outside the United States and Canada--Submission after Award	MAY 2007
252.225-7006	Quarterly Reporting of Actual Contract Performance Outside the United States	MAY 2007
252.225-7012	Preference For Certain Domestic Commodities	DEC 2008
252.226-7001	Utilization of Indian Organizations and Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	SEP 2004
252.227-7000	Non-estoppel	OCT 1966
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation	JUN 1995
252.227-7015	Technical Data--Commercial Items	NOV 1995
252.227-7016	Rights in Bid or Proposal Information	JUN 1995
252.227-7019	Validation of Asserted Restrictions--Computer Software	JUN 1995
252.227-7027	Deferred Ordering Of Technical Data Or Computer Software	APR 1988
252.227-7030	Technical Data--Withholding Of Payment	MAR 2000
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 1999
252.227-7039	Patents--Reporting Of Subject Inventions	APR 1990
252.231-7000	Supplemental Cost Principles	DEC 1991
252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	MAR 2008
252.232-7010	Levies on Contract Payments	DEC 2006
252.235-7011	Final Scientific or Technical Report	NOV 2004
252.243-7002	Requests for Equitable Adjustment	MAR 1998
252.244-7000	Subcontracts for Commercial Items and Commercial Components (DoD Contracts)	AUG 2009
252.245-7000	Government-Furnished Mapping, Charting, and Geodesy Property	DEC 1991
252.247-7023	Transportation of Supplies by Sea	MAY 2002
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000

CLAUSES INCORPORATED BY FULL TEXT

52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

(b) The Contractor shall--

(1) Maintain current, accurate, and complete inventory records of assets and their costs;

(2) Provide the ACO or designated representative ready access to the records upon request;

(3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractor's ownership changes; and

(4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

(End of clause)

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed 0.00 or the overtime premium is paid for work --

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

* Insert either "zero" or the dollar amount agreed to during negotiations. The inserted figure does not apply to the exceptions in paragraph (a)(1) through (a)(4) of the clause.

(End of clause)

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://farsite.hill.af.mil>

(End of clause)

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of clause)

252.235-7010 Acknowledgment of Support and Disclaimer. (MAY 1995)

(a) The Contractor shall include an acknowledgment of the Government's support in the publication of any material based on or developed under this contract, stated in the following terms: This material is based upon work supported by the Defense Advanced Projects Agency (DARPA) under Contract No. HR0011-10-C-0113.

(b) All material, except scientific articles or papers published in scientific journals, must, in addition to any notices or disclaimers by the Contractor, also contain the following disclaimer: Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of DARPA.

Section J - List of Documents, Exhibits and Other Attachments

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	Statement of Work	3	09-JUN-2010
Attachment 2	Identification and Assertion of IP Restrictions	2	04-JUN-2010
Attachment 3	Contractor Acquired Property (Equipment)	2	09-JUN-2010
Attachment 4	Contractor Acquired Property (IT)	1	09-JUN-2010
Attachment 5	Phase I Property Transfer List	5	22-JUN-2010

ATTACHMENT 1
STATEMENT OF WORK
PANOPTIC ANALYSIS OF CHEMICAL TRACES (PACT) PHASE II & PHASE III
09 JUNE 2010

1.0 Scope

In Phase 2 the contractor will modify the current system based on Phase 1 experience and Phase 2 metrics. The system design will be constructed from the operational experience gained from the Phase 1 test system and from the components developed for the feasibility demonstrations during Phase 1. The contractor will build and integrate a COTS and custom COTS system to test against Phase 2 performance metrics. In addition, the contractor will develop components that demonstrate the feasibility of the GEN1 metrics. The contractor will also develop components that demonstrate the manufacturability of the GEN1 system. The engineering design for the GEN1 system will be derived from the 100th-scale system and from these components. Phase 3 runs concurrently with Phase 2, and will determine molecule structures from spectroscopic observations without libraries. At the end of Phases 2 and 3, the contractor will deliver the CDR for the GEN1 system.

2.0 Phase 2: 1/100th Scale Demonstration (1-24 months ARO)

In Phase 2, the contractor will demonstrate an analytical system composed largely of COTS components that will be a 1/100th scale system. The contractor will demonstrate the processing of 125 samples/h, with a sensitivity of 50 pM, fidelity and accuracy greater than 95%, using a library of 300 target gases for a cost per sample of \$0.10 or less. In addition, the system will demonstrate a Pd for 50 pM samples of library materials of more than 0.95 and a Pfa of less than 0.10

Task 2.1: System Engineering

Task Description: This task continues the responsibility for allocated requirements, risk planning, and refining the system-level performance requirements. It will maintain the system "link budget" and allocate requirements to subsystems. Open architecture development/interface definition and documentation development are also part of this task. In addition, the workflow design, test plans and procedures will be developed as part of the system engineering task.

Exit criteria: Completed allocated baseline for the ChemIST System, including a report on tests against the Phase 2 criteria and producibility analysis for meeting the GEN1 criteria.

Task 2.2: Component Development, Test, and Refinement

Task Description: This task will develop and/or acquire the necessary components to enable gas sample handling, sample chromatographic separation, MS analysis and identification, optical spectroscopic analysis/ identification, and signal processing, classification, and data-dependent measurement design. This task is also responsible for refinements in the design and implementation of all components in the integrated system.

Exit Criteria: Components appropriate for characterization and testing of feasibility of meeting Phase 2 and GEN1 requirements. Characterization and test of those components including a refined design for all ChemIST system components.

Task 2.3: Integration and Test

Task Description: This task will perform an end-to-end numerical simulation of the Phase 2 system. The components identified in Task 2 will be assembled into an integrated instrument with systematic mechanical, data, and electric power interfaces. The control software and results database will be assembled and tested along with signal processing, classification, and measurement implementation procedures. The various analytical components will be interconnected via a common gas transport configuration between instruments. Special test equipment will be designed, assembled, validated, and used to test all components in both pre-tests.

Exit Criteria: Successful completion of Phase 2.

Task 2.4: Engineering design of the GEN1 system

Task description: This task uses results of Phase 1, Tasks 2.2 and 2.3 from Phase 2, and input from the military and commercial transition activity to produce an engineering design for the GEN1 system. This design will consist of PDR-level instrument-, rack-, and enclosure-level CAD drawings, ICDs, software-description documents, and production diagrams, including preliminary bill of materials, vendor information, and assembly and test documentation. This design will complement the functional baseline.

Exit Criteria: Completion of design.

Task 2.5: Management and Reports

Task Description: This task will provide overall program management, including earned-value cost tracking and subcontractor technical management.

Exit Criteria: Completion of all deliverables.

3.0 Phase 3: Automated Unknown Identification (7 – 24 months ARO)

In Phase 3, the contractor will demonstrate a system and method to automatically deduce the chemical composition of 1 μ M samples of pure unknown gases, with 90% confidence, in an average of 30 min or less. The contractor will demonstrate a system and method to resolve, in 2 h or less and with accuracy and fidelity greater than 90%, the identities of five unknown compounds in a mixture where each analyte is present in quantities ranging from 1 nM to 1 μ M.

Task 3.1: System Engineering (similar to Task 2.1, with tests against Phase 3 goals)**Task 3.2: Component Development, Test, and Refinement**

Task Description: This task will develop and/or acquire the necessary components to enable gas sample handling, sample chromatographic separation, MS analysis and identification, optical spectroscopic analysis/identification, NMR analysis, and signal processing, classification, and data-dependent measurement design. This task is also responsible for refinements in the design and implementation of all components in the integrated system. In this task the contractor will develop *ab initio* quantum chemistry numerical models designed to produce structures for unknown compounds using spectral data acquired by all the ChemIST instruments. The contractor will

measure how well the models predict ChemIST measurements for various structures. The contractor will develop and demonstrate generative techniques for exploring molecular structures and provide software that incorporates knowledge engineering of analytical chemistry.

Exit Criteria: Completion of components appropriate for characterization and testing of feasibility of meeting Phase 3 requirements. Characterization and test of those components, including demonstration of an automated software suite for the automated identification of unknown compounds.

Task 3.3: Implementation and Test

Task Description: This task will perform end-to-end simulation of the entire, integrated ChemIST system. Given the veracity of the models, the contractor will determine the accuracy required of the Generative and Knowledge engineering approaches. The contractor will use the special test equipment designed, assembled, and validated in Phase 2 to test all components in both pre-tests and in the final Phase 3 client tests.

Exit Criteria: Successful completion of the Phase 3 client tests.

Task 3.5: Management and Reports

Task Description: This task will provide overall program management, including earned-value cost tracking and subcontractor technical management of ACD.


Exit Criteria: Completion of all deliverables.

ATTACHMENT NUMBER 2

**Identification and Assertion of Restrictions on the Government's Use, Release, or
Disclosure of Technical Data and Computer Software**

04 June 2010

Daylight Solutions, Inc. (subcontractor to SRI International) under DFARS 252.227-7017 asserts for itself that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

NONCOMMERCIAL			
Technical Data, Computer software To Be Furnished With Restrictions	Basis for Assertion	Asserted Rights Category	Name of Person Asserting Restrictions
Computer Software (Non-Commercial)			
			

NONCOMMERCIAL			
Technical Data, Computer software To Be Furnished With Restrictions	Basis for Assertion	Asserted Rights Category	Name of Person Asserting Restrictions
<div style="background-color: black; width: 100%; height: 480px;"></div>			

ATTACHMENT 3

Contractor Acquired Property (Equipment) (Phase 2)

SRI International (Phase 2)

Description	Unit Cost	Qty	Total

Honeywell Labs (Phase 2)

Description	Unit Cost	Qty	Total
(b)(4)			

Contractor Acquired Property (Equipment) (Phase 3)

SRI International (Phase 3)

Description	Unit Cost	Qty	Total
(b)(4)			

ATTACHMENT 4

Contractor Acquired Property (IT) (Phase 2)

SRI International (Phase 2)

Description	Unit Cost	Qty	Total
Two data acquisition and processing systems consisting of the following line items			
Dell Workstation w/graphics	3,892	2	6,896
DAQ PC	3,044	2	6,088
High Speed Digitizer	26,363	2	53,726
Total SRI IT Equipment (PHASE 2)			\$66,710

Contractor Acquired Property (Equipment) (Phase 3)

SRI International (Phase 3)

Description	Unit Cost	Qty	Total
Dell Workstation	3,498	1	3,498
Dell PC	2,595	1	2,595
Total SRI IT Equipment (PHASE 3)			\$6,093

HR0011-10-C-0113

SRI Project-Property Inventory Report – PY09

5 pages denied in full pursuant to 5 U.S.C. § 552 (b)(4)