

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE  
Page  
1 of 12

2. AMENDMENT/MODIFICATION NO. 0001  
3. EFFECTIVE DATE 05/31/2010  
4. REQUISITION/PURCHASE REQ. NO. See Lines  
5. PROJECT NO. (If applicable)

6. ISSUED BY DOT/Maritime Administration, MAR-380  
1200 New Jersey Ave SE, MAR380 W26-429  
Washington, DC 20590  
CODE 00091  
7. ADMINISTERED BY (If other than Item 6) DOT/Maritime Administration, MAR-380  
1200 New Jersey Ave SE, MAR380 W26-429  
Washington, DC 20590  
CODE 00091

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and Zip Code)  
APPLIED ENTERPRISE SOLUTIONS, LLC  
109 SHIRMAC DR  
SLIDELL, LA 70461-2901  
9A. AMENDMENT OF SOLICITATION NO.  
9B. DATED (SEE ITEM 11)  
10A. MODIFICATION OF CONTRACT/ORDER NO. DTMA1C10024 (X)  
10B. DATED (SEE ITEM 13) 05/04/2010 (X)  
CODE m FACILITY CODE

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
(a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)  
See Line Item Detail

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE  
 A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.  
 B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).  
 C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:  
FAR 52.217-8 - Option to Extend Services  
 D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not,  is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  
The purpose of this contract modification is to:

1. Update the Performance Work Statement to
2. Incorporate FAR clause 52.217-8 - Option to Extend Services,
3. Incorporate FAR clause 52.227-16 - Additional Data Requirements,
4. Extend the period of performance from: 31 May 2010, by: 60 days to: 30 July 2010,
5. Increase the total contract funding available from: \$312,470.92 by: \$312,470.92 to: \$624,941.84.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) JOHN EADS CFO  
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Jill M. Kline  
15B. CONTRACTOR/OFFEROR  
15C. DATE SIGNED 6/10/2010  
16B. United States of America BY Jill M. Kline (Signature of Contracting Officer)  
16C. DATE SIGNED 6/10/2010  
(Signature of person authorized to sign)

<b>Line Item Summary</b>	<b>Document Number</b> DTMA1C10024/0001	<b>Title</b> Marview Bridge Support	<b>Page</b> 2 of 12
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Total Funding: \$624,941.84

<b>FYs</b>	<b>Fund</b>	<b>Budget Org</b>	<b>Sub</b>	<b>Object Class</b>	<b>Sub</b>	<b>Program</b>	<b>Cost Org</b>	<b>Sub</b>	<b>Proj/Job No.</b>	<b>Sub</b>	<b>Reporting Category</b>
<b>See Line Item(s)</b>											
<b>Division</b>	<b>Closed FYs</b>	<b>Cancelled Fund</b>									

Line Item Number	Description	Delivery Date (Start date to End date)	Quantity	Unit of Issue	Unit Price	Total Cost
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Prices IAW quote submitted by John Eads on 05/18/2010.

Funds commitment #11N10271

0001	Continued Marview Development	05/31/2010 (05/31/2010 to 07/30/2010)	2.00	MO	\$0.00	\$0.00 OPTION PERIOD
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Change in Performance Period, Quantity  
IAW Section C

Ref Req No: PR300100078

0001AA	Labor	(05/31/2010 to 07/30/2010)	2.00	MO	\$0.00	\$162,070.92 OPTION PERIOD
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Change in Performance Period, Quantity, Funding

Funding Information:

7010 - 1750 - HQ - 2010 - - 1ITE - - 0003MV - 0000134 - 01  
- 6 25305 - - 6100 - 6600 - - -  
162,070.92

0001AB	ODC	(05/31/2010 to 07/30/2010)	2.00	MO	\$0.00	\$144,000.00 OPTION PERIOD
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Change in Performance Period, Quantity, Funding

Funding Information:

7010 - 1750 - HQ - 2010 - - 1ITE - - 0003MV - 0000134 - 01  
- 6 25305 - - 6100 - 6600 - - -  
144,000.00

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Total Funding: \$624,941.84

FYs Fund Budget Org Sub Object Class Sub Program Cost Org Sub Proj/Job No. Sub Reporting Category  
**See Line Item(s)**  
 Division Closed FYs Cancelled Fund

Line Item Number	Description	Delivery Date (Start date to End date)	Quantity	Unit of Issue	Unit Price	Total Cost
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0001AC	Travel	(05/31/2010 to 07/30/2010)	1.00	NTE	\$0.00	\$6,400.00
	Change in Performance Period, Quantity, Funding As authorized by the COTR and IAW FTR					OPTION PERIOD

Funding Information:

7010 - 1750 - HQ - 2010 - - 1ITE - - 0003MV - 0000134 - 01  
 - 6 25305 - - 6100 - 6600 - - -  
 6,400.00

**Previous Total:** \$312,470.92  
**Modification Total:** \$312,470.92  
**Grand Total:** \$624,941.84  
 (Includes Discounts)

**Shipping Addresses**

<b>Code</b>	<b>Detail</b>
0001	<b>Org:</b> DOT/Maritime Administration, MAR-340 <b>Addr:</b> 1200 New Jersey Ave., SE MAR340, W26-320  Washington DC 20590-0001 <b>Attn:</b> Louis Effa, Supervisory IT Specialist <b>Phone:</b> (202) 366-9787 ext. <b>Fax:</b> (202) 366- ext.

**Invoice Addresses**

<b>Code</b>	<b>Detail</b>
0001	<b>Org:</b> DOT/ Enterprise Services Center (ESC) OFO/FAA, <b>Addr:</b> MARAD A/P Branch, AMZ-150 PO Box 25710  Oklahoma City OK 73125 <b>Attn:</b> Tammy Curnett, Lead Accounting Technician <b>Phone:</b> (405) 954-2063 ext. <b>Fax:</b> (405) 954-9573 ext.

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SECTION A -- SOLICITATION/CONTRACT FORM

A.1 SUMMARY OF CHANGES

The free form item 'Performance Work Statement' has been edited.  
Clause '52.227-16 - Additional Data Requirements' has been added.  
Clause '52.217-08 - Option to Extend Services' has been added.

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SECTION C -- DESCRIPTIONS AND SPECIFICATIONS

C.1 PERFORMANCE WORK STATEMENT

**1 Background**

The Maritime Administration (MARAD) in the U.S. Department of Transportation (USDOT) is responsible for maritime programs to strengthen the U.S. marine transportation system - including infrastructure, industry and labor - in order to meet the economic and security needs of the United States. MARAD's many responsibilities include:

Promoting the development and maintenance of an adequate and well-balanced United States merchant marine.

Supporting a system that is sufficient to carry the nation's domestic waterborne commerce and a substantial portion of its waterborne foreign commerce.

Advancing a system that is capable of serving as a naval and military auxiliary in time of war or national emergency.

Ensuring that the United States maintains adequate shipbuilding and repair services, efficient ports, effective intermodal water and land transportation systems, and reserve shipping capacity for use in time of national emergency.

Marine View (MarView) is a web-based portal that supports the critical role that the Marine Transportation System (MTS) plays in the nation's economic growth, prosperity, and quality of life. It serves as an information dissemination portal for key transportation decision making by the U.S. Department of Transportation (USDOT), Congress, state transportation officials, waterborne facility owners and operators, the private industry, as well as academic researchers.

MarView projects and activities directly support the priorities of the Maritime Administration's strategic objectives and the U.S. Department of Transportation's strategic goals - specifically contributing to the intermodal system development, global connectivity, environmental stewardship, safety, and security goals.

MarView serves three important objectives, each in line with the MARAD and USDOT goals:

First, it provides vital information on many aspects of the MTS system extent, capacity, uses, and performance in an integrated approach that allows users to have access to data from many disparate sources all at one centralized place. The portal is comprehensive in coverage and multimodal in extent - allowing analysis of ports, waterways, vessels, intermodal connections, and relations to nationally significant freight gateways and corridors. This objective contributes to better understanding of system capacity issues that result in multimodal system development and congestion mitigation efforts. It also contributes towards enhancing the system's global reach.

Second, it also fosters collaborative partnerships between government and private sector - drawing on a successful public-private information sharing arrangement with mutual benefits and significant cost savings. By bringing together information from the marine exchanges and industry-relevant trade information, MarView is meeting the needs of shippers, carriers, and operators and policy decisionmakers. This objective contributes activities to promoting safety and environmental stewardship through collaboration and knowledge sharing between various levels of government and private sector entities engaged in maritime activities.

Third, MarView provides a forum for secured security collaboration, dialogue, operations, and information sharing. By providing near real-time and visible display of the entire MTS using current-generation geographic technology, MarView is enabling on-time access to key security information to multiple government agencies. This objective of providing real-time on-demand service is vital for securing and protecting the MTS infrastructure and supports the USDOT's effort to improve the nation's security, preparedness, and response.

**2. Objective**

The purpose of this bridge vehicle is for continued maintenance and development services and to expand MarView's geospatial, analytical and portal capabilities by integrating Automatic Identification System (AIS), Long Range Identification and Tracking Systems (LRIT), intermodal infrastructure and freight data with maritime cargo information to create a robust

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unified national picture of the state of maritime activities in the United States and around the world. The primary goal is to extend the utility of MarView beyond its current capability as a source and repository for all major maritime information. The objective is to boost MarView's capability and make it a tool that is easily useable by transportation professionals as well as to make it a tool that is available for transportation planning at national, state, and local levels.

### 3. Scope of Work

#### Task 1: Data Integration

The MarView Data Integration task consists of loading complex data elements into the core MarView database and business analytic tool. In addition, the data integration activities must include updating the MarView data architecture to sustain the raw data loaded. This tasks include:

- Automated loads of federal and commercial data sources into the MarView database repository using several Extracting Transforming and Loading (ETL) methods such as FTP, SQLLoader, Oracle External Tables, Data Pump, and custom developed java code.

- Automated spatial indexing of the data loads though Oracle Spatial and custom java code

- Preparing the data and the data repository for the online MarView Portal, Business Intelligence Tool and Geospatial Tools.

- Manage the MarView repository in a manner that the data loaded has no negative impact on the performance of the database by performing tuning exercises, snapshots, automated monitoring and nightly backups.

The Contractor shall provide Database Administration, Business Intelligence, System Administration and Java Development services in integrating the wide array of data into the MarView environment.

#### Required Tools:

- Oracle Database Server v. 10.2.0.4.0

- Oracle Application Express (APEX) version 3.1

- FTP, SQLLoader

- Oracle External Tables

- Data Pump

- JAVA

- JAVA JDBC API

- Oracle Business Intelligence Enterprise Edition (OBIEE) version 10.1.3.3.2

- Oracle Application Server 10g v. 10.1.2.0.2

#### Deliverables:

- Automated real-time data loads of Automated Identification System (AIS) messages into the MarView database

- Automated real-time data loads of Satellite Vessel Position messages into the MarView database

- Upgrade MarView Database from Oracle 10G to Oracle 11G

#### Task 2: Portal

The Portal Application consists of complex applications in support of the data integration efforts that occur in conjunction with the previous task. The core MarView Portal is built upon Oracle Application Express (APEX) version 3.1. The Tasks include:

- Management of existing portal which includes SQL, PL/SQL, JavaScript, Bing Map API's and Java Server Pages

- Administration of role-based permissions through APEX and Oracle Single Sign On (SSO) version 10.1.0.4.2

- Development of new Portal Application based on the integrated data sources using SQL, PL/SQL, JavaScript, Bing Map API's and Java Server Pages

- System integration with other MarView components such as the Business Intelligence and Geospatial Tools

The Contractor shall provide Database Administration, Business Intelligence, System Administration, Java Development and APEX Development services for management and development activities for the MarView Portal.

#### Required Tools:

- Oracle Database Server v. 10.2.0.4.0

- Oracle Application Express (APEX) version 3.1

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Oracle Single Sign On (SSO) version 10.1.0.4.2  
Oracle Internet Directory (OID) version 10.1.2.1.0  
Oracle Business Intelligence Enterprise Edition (OBIEE) version 10.1.3.3.2  
Oracle Application Server 10g v. 10.1.2.0.2  
JAVA  
JAVA JDBC API

**Deliverables:**

- Develop Ballast water reporting application
- Develop real-time vessel movement events tracking system that provides the ability to report on where a vessel has been and where the vessel will travel next

Task 3: Virtual Marine Transportation System (VMTS)

The VMTS tasks consists of building supporting components to the already established VMTS. The VMTS is a geospatially enabled interface that allows all forms of data to be displayed on a map. In addition the VMTS is comprised of layers and functionality that present a complete visual picture of the Marine Transportation System. Tasks include:

- Management of existing VMTS system which consists of Visual Fusion Tile Server v. 1.5, Visual Fusion Server v. 4.5, Visual Fusion Experience v.4.5, SharePoint WSS v. 3.0, Silverlight v. 3.0 and Internet Information Server v. 6
- Development of new VMTS components using Silverlight, .NET Framework and JAVA
- Data connections to the MarView Database and Business Intelligence repositories
- Develop customized Bing Maps API's

The Contractor shall provide Database Administration, Business Intelligence, Java Development, Silverlight Development, .NET Framework Development and Visual Fusion configuration and development services for management and development activities for the VMTS.

**Required Tools:**

- Oracle Database Server v. 10.2.0.4.0
- Oracle Business Intelligence Enterprise Edition (OBIEE) version 10.1.3.3.2
- Visual Fusion Tile Server v. 1.5
- Visual Fusion Server v. 4.5
- Visual Fusion Experience v.4.5
- .Net Development Platform
- JAVA
- JAVA JDBC API
- SharePoint WSS v. 3.0
- Silverlight v. 3.0
- Internet Information Server v. 6

**Deliverables:**

- Real-time Automated Identification System (AIS) and Satellite Vessel Positions
- National and port level freight data Component Layer
- Real-time vessel movement events tracking Component Layer

Task 4: Business Intelligence

The Business Intelligence Tasks are primarily related to Oracle's Business Intelligence Suite commonly referred to as OBI EE and subject matter expertise in various forms of transportation data. The Business Intelligence within Marview allows various analytic and reporting functions to be performed against the data contained in the MarView database. Tasks include:

- Management of existing Business Intelligence system which consists of Oracle Business Intelligence Enterprise Edition (OBIEE) version 10.1.3.3.2
- Automated and manual data loads from multiple formats (Access, Excel, CSV, ASCII, Database dump files, XML)
- Data cleansing (remove white spaces, leading/trailing blanks, convert special characters)

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Populating OBI EE repository using the OBI EE Administration Tool  
 Development of the OBI EE Physical Layers by creating connection pools, schemas, primary key-foreign-key joins between the data  
 Development of the OBI EE Model and mapping layer that contains logical mapping between the datasets  
 Development of the OBI EE Presentation Layer that presents different views of the data  
 Development of the customized Reports and Dashboards using OBI EE Front-End Developer  
 Integration with SSO  
 Customized role based permissions  
 Functional analysis of the to assure proper relationships of the data as well as protecting the integrity of the overall data architecture

The Contractor shall provide Database Administration, Business Intelligence and Transportation Subject Matter Expertise services for management and development activities for the Business Intelligence.

**Required Tools:**

- Oracle Database Server v. 10.2.0.4.0
- Oracle Application Express (APEX) version 3.1
- Oracle Single Sign On (SSO) version 10.1.0.4.2
- Oracle Internet Directory (OID) version 10.1.2.1.0
- Oracle Business Intelligence Enterprise Edition (OBIEE) version 10.1.3.3.2
- Oracle Application Server 10g v. 10.1.2.0.2

**Subject Matter Areas:**

- Ports
- Vessels
- Cargo
- National Bridge Inventory
- National Inventory of Dams
- USACE Locks
- North American Railroads
- Shipyards
- Rail Shipments by Port

**Deliverables:**

- Development of Customized Business Intelligence Dashboards consistent with MarView Portal Theme
- Development of Container Ports Dashboard
- Development of Vessel Calls Dashboard

**Task 5: Operation and Maintenance**

The Operation and Maintenance of MarView tasks supports all technical components of the System. As new data is introduced, new developments occur and additional functionality is developed, it is vital that the system, as a whole, is constantly managed, configured and upgraded to support the changes. In addition, this tasks entails the daily administration such as health checks, backups and performance monitoring. Tasks include:

- Work closely with the Stennis National Center for Critical Information Processing and Storage (NCCIPS) network team on address specifications, required ports, bandwidth tuning
- Interface with NCCIPS Change Management process including drafting, presenting, and implementing Change Requests in coordination with NCCIPS Change Control Board and Project Management team
- Work with NCCIPS personnel to ensure that visiting vendor personnel have proper security credentials to enter the Stennis and NCCIPS sites, and that equipment requirements are met to ensure successful engagements
- Design, install, configure Operating Systems such as Solaris, AIX and Windows
- Requires the ability to "right-size" the hosts to avoid overbuying or under-buying based on intended mission
- Maintenance includes patching and performance tuning on all platforms
- Requires installation, maintenance, and utilization of specialized installation resources like Sun Jumpstart, Solaris Live Upgrade, IBM NIM, IX Alt-Disk-Installation

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Includes designing and configuring the Virtual Machines, provisioning their storage, installing their operating systems, tuning their performance, and integrating them into the backup and monitoring systems  
 Design, install, configure and maintain Storage Components  
 Maintenance includes performance tuning of storage system to prevent I/O bottlenecks  
 Design, install, configure and maintain the above Backup Components  
 Security hardening of systems using Dept of Defense DIACAP process, standards, controls, procedures, and documentation and Security Technical Implementation Guides (STIGs) for target systems  
 Installation, configuration, and maintenance of "easyCMDB" configuration management system  
 Configuration, maintenance, and operation of systems monitoring systems, primarily Hobbit running on Solaris  
 Operational surveillance using system monitors of the SAN, TSM backup system, and Symantec anti-virus systems  
 Specification, requisition, and installation of power components within the racks; including planning to ensure that overall power loads remain within safe limits  
 Management of hardware and software support contracts and licenses for Microsoft, Cisco, Dell/EMC, HP, IBM, Sun, VMWare, Symantec and McAfee  
 Interfacing with vendor Tech Support to engage them for on-site maintenance and repair  
 Required understanding of the maintenance contracts and warranties in force and the processes to engage their personnel

The Contractor shall provide System Administration services for operation and maintenance activities of the entire MarView environment.

**Required Tools:**

- Cisco 3750G gigabit switches
- Cisco 3000 VPN Concentrator
- Cisco Pix515e Firewall
- Cisco 2811 Router
- Microsoft Windows Server 2003 and 2008
- Sun Solaris 10, both SPARC and x86
- IBM AIX 6.1 and Virtual I/O Server 2.1
- VMWare Server
- VMWare ESX
- Sun Zones
- IBM Dynamic LPARs
- EMC Clariion storage array
- Brocade FC switches
- IBM Tivoli Storage Manager 5.5
- Microsoft Windows 2003 host running on HP Proliant server
- Dell LTO-3 multi-drive tape library
- easyCMDB

**Deliverables:**

- Daily system backups of all MarView systems
- Weekly restores performed to assure the backups are valid
- Upgrade of all SAN software components to assure peak storage performance
- Migration from SUN T-2000 to IBM Power 550
- 99% Uptime for all MarView Systems and Components

**4. Milestones and Due Dates**

The following milestones for the deliverables shall be basis for acceptance of the services performed under this SOW:

Deliverable	Deliverable Date
A. MarView Version 4.1	July 30, 2010

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During performance of this contract, the following shall be the required performance of the deliverables:

**Task 1: Data Integration**

- Automated real-time data loads of Automated Identification System (AIS) messages into the MarView database
- Automated real-time data loads of Satellite Vessel Position messages into the MarView database
- Upgrade MarView Database from Oracle 10G to Oracle 11G

**Task 2: Portal**

- Develop Ballast water reporting application
- Develop real-time vessel movement events tracking system that provides the ability to report on where a vessel has been and where the vessel will travel next

**Task 3: Virtual Marine Transportation System (VMTS)**

- Real-time Automated Identification System (AIS) and Satellite Vessel Positions
- National and port level freight data Component Layer
- Real-time vessel movement events tracking Component Layer

**Task 4: Business Intelligence**

- Development of Customized Business Intelligence Dashboards consistent with MarView Portal Theme
- Development of Container Ports Dashboard
- Development of Vessel Calls Dashboard

**Task 5: Operation and Maintenance- Provide minimal of 99% uptime**

**5. Project Management**

The contractor shall work very closely with MARAD staff on each phase of the performance of this SOW to ensure timely execution and delivery of each component throughout the entire project period.

All written deliverables shall be provided in layperson language. All software deliverables submitted shall include all the executable code and original compiler code to allow the Government to make changes to such code in the future. The final codes delivered shall be the property of the Government and can be used by the Government in modifying, improving, and upgrading the application.

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SECTION I -- CONTRACT CLAUSES

I.1 52.252-02 CLAUSES INCORPORATED BY REFERENCE

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://acquisition.gov/far/current/html/FARTOCP52.html>

Clause	Title	Date
52.227-16	Additional Data Requirements	June 1987

I.2 52.217-08 OPTION TO EXTEND SERVICES

NOVEMBER  
R 1999

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within \_\_\_\_\_ [insert the period of time within which the Contracting Officer may exercise the option].

(End of clause)