

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

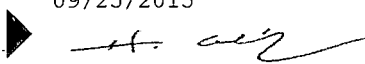
1 21

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 09/25/2015		2. CONTRACT NO. (If any) NRC-HQ-10-15-A-0005		6. SHIP TO: a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission-	
3. ORDER NO. NRC-HQ-20-15-O-0001		4. REQUISITION/REFERENCE NO. See Schedule			
5. ISSUING OFFICE (Address correspondence to) U.S. NRC - HQ Acquisition Management Division Mail Stop: TWFN-5E03 Washington DC 20555-0001				b. STREET ADDRESS Mail Processing Center 4930 Boiling Brook Parkway	
				c. CITY Rockville	e. ZIP CODE 20852
7. TO: a. NAME OF CONTRACTOR AEGIS.NET INC				f. SHIP VIA	
b. COMPANY NAME				8. TYPE OF ORDER <input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 42 READS WAY				REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY NEW CASTLE		e. STATE DE	f. ZIP CODE 197201649	Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Information Services	
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input checked="" type="checkbox"/> a. SMALL <input type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
13. PLACE OF a. INSPECTION Destination		b. ACCEPTANCE Destination		12. F.O.B. POINT	
		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	
				16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	GSA Contract #: GS-35F-0125S Independent Verification and Validation Services for the Legacy and Replacement Reactor Program System (RPS) Period of Performance: 09/30/2015 to 09/30/2016 Continued ...					

18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
21. MAIL INVOICE TO:						
a. NAME U.S. Nuclear Regulatory Commission		\$1,660,371.82				17(i) GRAND TOTAL
b. STREET ADDRESS (or P.O. Box) One White Flint North 11555 Rockville Pike Mailstop 03-E17A NRCPayments@nrc.gov		\$6,356,382.79				
c. CITY Rockville		d. STATE MD	e. ZIP CODE 20852-2738			
22. UNITED STATES OF AMERICA BY (Signature) 				23. NAME (Typed) HERIBERTO COLON TITLE: CONTRACTING/ORDERING OFFICER		

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OPTIONAL FORM 347 (Rev. 2/2012)
Prescribed by GSA/FAR 48 CFR 53.213(f)

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

APR - 7 2016

ADM002

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER

CONTRACT NO.

09/25/2015

NRC-HQ-10-15-A-0005

ORDER NO.

NRC-HQ-20-15-O-0001

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
00001	<p>BASE PERIOD</p> <p>Line Item Ceiling\$1,660,371.82</p> <p>Incrementally Funded Amount: \$514,000.00</p> <p>Requisition No: NRR-15-0247, NRR-15-0248</p> <p>Accounting Info: 2015-X0200-FEEBASED-20-20D099-11-5-156 -6016-251A Funded: \$412,000.00</p> <p>Accounting Info: 2015-X0200-FEEBASED-20-20D099-11-5-156 -6015-251A Funded: \$102,000.00</p>				1,660,371.82	
10001	<p>OPTION YEAR 1</p> <p>Amount: \$1,639,606.41 (Option Line Item)</p> <p>Anticipated Exercise Date 08/30/2016</p> <p>Line Item Ceiling \$1,639,606.41</p> <p>Period of Performance: 10/01/2016 to 09/30/2017</p>				0.00	
20001	<p>OPTION YEAR 2</p> <p>Amount: \$1,559,272.80 (Option Line Item)</p> <p>Anticipated Exercise Date 08/30/2017</p> <p>Line Item Ceiling \$1,559,272.80</p> <p>Period of Performance: 10/01/2017 to 09/30/2018</p>				0.00	
30001	<p>OPTION YEAR <i>3</i></p> <p>Amount: \$913,009.59 (Option Line Item)</p> <p>Anticipated Exercise Date 08/30/2018</p> <p>Line Item Ceiling \$913,009.59</p> <p>Period of Performance: 10/01/2018 to 09/30/2019</p>				0.00	
40001	<p>OPTION YEAR <i>4</i></p> <p>Amount: \$584,122.17 (Option Line Item)</p> <p>Anticipated Exercise Date 08/30/2019</p> <p>Line Item Ceiling \$584,122.17</p> <p>Continued ...</p>				0.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$1,660,371.82

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OPTIONAL FORM 348 (Rev. 4/2005)
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**ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION**

PAGE NO

3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER

CONTRACT NO.

09/25/2015

NRC-HQ-10-15-A-0005

ORDER NO.

NRC-HQ-20-15-O-0001

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	<p>Period of Performance: 10/01/2019 to 09/30/2020</p> <p>The obligated amount of award: \$514,000.00. The total for this award is shown in box 17(i).</p>					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00

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COST/PRICE SCHEDULE

BASE PERIOD (09/30/2015 – 09/30/2016)

Line Number	Descriptions	Estimated Quantity	Unit	Price Per Hour	Not-To-Exceed
BPA Year 1 Rates					
1001	Project Manager		Hours		
1002	Senior Management Analyst		Hours		\$
1003	Senior Systems Analyst		Hours		\$
1004	Intermediate Systems Analyst		Hours		
1005	Computer/Telecommunications Analyst		Hours		\$
1006	Senior Information Assurance Analyst		Hours		
Totals:			Hours		\$1,660,371.82

OPTION PERIOD 1 (10/01/2016 – 09/30/2017)

Line Number	Descriptions	Estimated Quantity	Unit	Price Per Hour	Not-To-Exceed
BPA Year 2 Rates					
2001	Project Manager		Hours		
2002	Senior Management Analyst		Hours		\$
2003	Senior Systems Analyst		Hours		\$
2004	Intermediate Systems Analyst		Hours		
2005	Computer/Telecommunications Analyst		Hours		\$
2006	Senior Information Assurance Analyst		Hours		\$
Totals:			Hours		\$1,639,606.41

OPTION PERIOD 2

Line Number	Descriptions	Estimated Quantity	Unit	Price Per Hour	Not-To-Exceed
BPA Year 3 Rates					
3001	Project Manager		Hours	\$	
3002	Senior Management Analyst		Hours	\$	\$
3003	Senior Systems Analyst		Hours	\$	\$
3004	Intermediate Systems Analyst		Hours	\$	
3005	Computer/Telecommunications Analyst		Hours	\$	\$
3006	Senior Information Assurance Analyst		Hours	\$	
Totals:			Hours		\$1,559,272.80

BPA NO.: NRC-HQ-10-15-A-0005

BPA CALL NO. (TASK ORDER): NRC-HQ-20-15-O-0001

OPTION PERIOD 3

Line Number	Descriptions	Estimated Quantity	Unit	Price Per Hour	Not-To-Exceed
BPA Year 4 Rates					
4001	Project Manager		Hours		
4002	Senior Management Analyst		Hours		\$
4003	Senior Systems Analyst		Hours		\$
4004	Intermediate Systems Analyst		Hours		
4005	Computer/Telecommunications Analyst		Hours		\$
4006	Senior Information Assurance Analyst		Hours		
Totals:			Hours		\$913,009.59

OPTION PERIOD 4

Line Number	Descriptions	Estimated Quantity	Unit	Price Per Hour	Not-To-Exceed
BPA Year 5 Rates					
5001	Project Manager		Hours	\$	\$
5002	Senior Management Analyst		Hours	\$	\$
5003	Senior Systems Analyst		Hours	\$	\$
5004	Intermediate Systems Analyst		Hours	\$	
5005	Computer/Telecommunications Analyst		Hours	\$	
5006	Senior Information Assurance Analyst		Hours		
Totals:			Hours		\$584,122.17

Grand Total:			Hours		\$6,356,382.79
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ADDITIONAL TERMS AND CONDITIONS

1. CONTRACTOR ACCEPTANCE OF TASK ORDER

Acceptance of this task order should be made by an official authorized to bind your organization. Please sign one copy of this document in the space provided and return it via email to the Contracting Officer.

Accepted Task Order:

Tom Lourenco

Exec. Vice President

AEGIS-net, Inc.

Printed Name & Title

Signature

Date

9/25/15

2. NRCB010 BRIEF PROJECT TITLE AND WORK DESCRIPTION

(a) The title of this project is: Independent Verification and Validation Services for the Legacy and Replacement Reactor Program System (RPS)

(b) Summary work description: The Office of Nuclear Reactor Regulation (NRR) and the Office of Information Services (OIS) within the U.S. Nuclear Regulatory Commission (NRC) require support services for a new Independent Verification and Validation (IV&V) effort. NRR is currently maintaining the legacy Reactor Program System (legacy RPS) and its operations. This legacy RPS consists of four (4) main components comprising of several stove-piped applications with overlapping functionalities. The legacy RPS interfaces with many other systems within the agency. In some cases, the legacy RPS acts as a broker system to transfer data that does not fall under its authoritative area. The legacy RPS is beyond its life cycle and is unable to meet emerging user needs due to technological limitations. NRR is currently in the process of replacing the legacy RPS (Replacement RPS project) with a browser-based system with streamlined business processes to improve user productivity. The agency is also working on other corporate initiatives concurrently, which the RPS program is dependent on.

3. NRCB050 CONSIDERATION AND OBLIGATION-TASK ORDERS

(a) The ceiling of this order for services is **\$1,660,371.82**.

(b) This order is subject to the minimum and maximum ordering requirements set forth in the contract.

(c) The amount presently obligated with respect to this order is **\$514,000.00**. The obligated amount shall, at no time, exceed the order ceiling as specified in paragraph (a) above. When and if the amount(s) paid and payable to the Contractor hereunder shall equal the obligated amount, the Contractor shall not be obligated to continue performance of the work unless and until the Contracting Officer shall increase the amount obligated with respect to this order, in accordance with FAR Part 43 - Modifications. Any work undertaken by the Contractor in excess of the obligated amount specified above is done so at the Contractor's sole risk and may not be reimbursed by the Government.

(d) The Contractor shall comply with the provisions of FAR 52.232-22 - Limitation of Funds, for incrementally-funded delivery orders or task orders.

4. NRCF030B PERIOD OF PERFORMANCE ALTERNATE

This contract shall commence on award date and will expire on September 30, 2016. The term of this contract may be extended at the option of the Government for an additional four (4) optional periods, as follows:

Base Period: September 30, 2015 to September 30, 2016

Option Period(s):

Option Period 1: October 1, 2016 to September 30, 2017

Option Period 2: October 1, 2017 to September 30, 2018

Option Period 3: October 1, 2018 to September 30, 2019

Option Period 4: October 1, 2019 to September 30, 2020

5. NRCF010 PLACE OF DELIVERY-REPORTS

The items to be furnished hereunder shall be delivered, electronically (1 copy) via email to:

a. The Contracting Officer Representative (COR)

b. The Contracting Officer (CO)

6. 2052.215-70 KEY PERSONNEL (JAN 1993)

(a) The following individuals are considered to be essential to the successful performance of the work hereunder:

Tom Lourenco	Project Manager
Brenda Austin	Senior Management Analyst
Lam Ly	Senior Systems Analyst
Joshua Murphy	Senior Information Assurance Analyst

The contractor agrees that personnel may not be removed from the contract work or replaced without compliance with paragraphs (b) and (c) of this section.

(b) If one or more of the key personnel, for whatever reason, becomes, or is expected to become, unavailable for work under this contract for a continuous period exceeding 30 work days, or is expected to devote substantially less effort to the work than indicated in the proposal or initially anticipated, the contractor shall immediately notify the contracting officer and shall, subject to the concurrence of the contracting officer, promptly replace the personnel with personnel of at least substantially equal ability and qualifications.

(c) Each request for approval of substitutions must be in writing and contain a detailed explanation of the circumstances necessitating the proposed substitutions. The request must also contain a complete resume for the proposed substitute and other information requested or needed by the contracting officer to evaluate the proposed substitution. The contracting officer and the Contracting Officer Representative shall evaluate the contractor's request and the contracting officer shall promptly notify the contractor of his or her decision in writing.

(d) If the contracting officer determines that suitable and timely replacement of key personnel who have been reassigned, terminated, or have otherwise become unavailable for the contract work is not reasonably forthcoming, or that the resultant reduction of productive effort would be so substantial as to impair the successful completion of the contract or the service order, the contract

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may be terminated by the contracting officer for default or for the convenience of the Government, as appropriate. If the contracting officer finds the contractor at fault for the condition, the contract price or fixed fee may be equitably adjusted downward to compensate the Government for any resultant delay, loss, or damage.

7. CONTRACTING OFFICER REPRESENTATIVE (COR) AUTHORITY (OCT 1999)

(a) The Contracting Officer's authorized representative hereinafter referred to as the Contracting Officer Representative for this task order is:

Name: **Indu Konduri**
Address: **US NRC, OWFN/ 13 C5, Washington DC 20555**
Email: **Indu.Konduri@nrc.gov**
Telephone Number: **301-415-8533**

(b) Performance of the work under this contract is subject to the technical direction of the NRC COR. The term technical direction is defined to include the following:

(1) Technical direction to the contractor which shifts work emphasis between areas of work or tasks, authorizes travel which was unanticipated in the Schedule (i.e., travel not contemplated in the Statement of Work or changes to specific travel identified in the Statement of Work), fills in details, or otherwise serves to accomplish the contractual statement of work.

(2) Provide advice and guidance to the contractor in the preparation of drawings, specifications, or technical portions of the work description.

(3) Review and, where required by the contract, approve technical reports, drawings, specifications, and technical information to be delivered by the contractor to the Government under the contract.

(c) Technical direction must be within the general statement of work stated in the contract. The COR does not have the authority to and may not issue any technical direction which:

(1) Constitutes an assignment of work outside the general scope of the contract.

(2) Constitutes a change as defined in the "Changes" clause of this contract.

(3) In any way causes an increase or decrease in the total estimated contract cost, the fixed fee, if any, or the time required for contract performance.

(4) Changes any of the expressed terms, conditions, or specifications of the contract.

(5) Terminates the contract, settles any claim or dispute arising under the contract, or issues any unilateral directive whatever.

(d) All technical directions must be issued in writing by the COR or must be confirmed by the COR in writing within ten (10) working days after verbal issuance. A copy of the written direction must be furnished to the contracting officer. A copy of NRC Form 445, Request for Approval of Official Foreign Travel, which has received final approval from the NRC must be furnished to the contracting officer.

(e) The contractor shall proceed promptly with the performance of technical directions duly issued

by the COR in the manner prescribed by this clause and within the COR's authority under the provisions of this clause.

(f) If, in the opinion of the contractor, any instruction or direction issued by the COR is within one of the categories defined in paragraph (c) of this section, the contractor may not proceed but shall notify the contracting officer in writing within five (5) working days after the receipt of any instruction or direction and shall request that contracting officer to modify the contract accordingly. Upon receiving the notification from the contractor, the contracting officer shall issue an appropriate contract modification or advise the contractor in writing that, in the contracting officer's opinion, the technical direction is within the scope of this article and does not constitute a change under the "Changes" clause.

(g) Any unauthorized commitment or direction issued by the COR may result in an unnecessary delay in the contractor's performance and may even result in the contractor expending funds for unallowable costs under the contract.

(h) A failure of the parties to agree upon the nature of the instruction or direction or upon the contract action to be taken with respect to the instruction or direction is subject to 52.233-1 - Disputes.

(i) In addition to providing technical direction as defined in paragraph (b) of the section, the COR shall:

(1) Monitor the contractor's technical progress, including surveillance and assessment of performance, and recommend to the contracting officer changes in requirements.

(2) Assist the contractor in the resolution of technical problems encountered during performance.

(3) Review all costs requested for reimbursement by the contractor and submit to the contracting officer recommendations for approval, disapproval, or suspension of payment for supplies and services required under this contract.

8. NRCH490 AWARD NOTIFICATION AND COMMITMENT OF PUBLIC FUNDS

(a) All offerors will receive pre-award and post-award notices in accordance with FAR 15.503.

(b) It is also brought to your attention that the contracting officer is the only individual who can legally obligate funds or commit the NRC to the expenditure of public funds in connection with this procurement. This means that unless provided in a contract document or specifically authorized by the contracting officer, NRC technical personnel may not issue contract modifications, give formal contractual commitments, or otherwise bind, commit, or obligate the NRC contractually. Informal unauthorized commitments, which do not obligate the NRC and do not entitle the contractor to payment, may include:

(1) Encouraging a potential contractor to incur costs prior to receiving a contract;

(2) Requesting or requiring a contractor to make changes under a contract without formal contract modifications;

(3) Encouraging a contractor to incur costs under a cost-reimbursable contract in excess of those costs contractually allowable; and

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(4) Committing the Government to a course of action with regard to a potential contract, contract change, claim, or dispute.

9. 52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor within 10 days; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 10 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed September 30, 2020.

PERFORMANCE WORK STATEMENT (PWS)

1. PROJECT TITLE

Independent Verification and Validation Services for the Legacy and Replacement Reactor Program System (RPS)

2. BACKGROUND/INTRODUCTION

The Office of Nuclear Reactor Regulation (NRR) and the Office of Information Services (OIS) within the U.S. Nuclear Regulatory Commission (NRC) require support services for a new Independent Verification and Validation (IV&V) effort. NRR is currently maintaining the legacy Reactor Program System (legacy RPS) and its operations. This legacy RPS consists of four (4) main components comprising of several stove-piped applications with overlapping functionalities. The legacy RPS interfaces with many other systems within the agency. In some cases, the legacy RPS acts as a broker system to transfer data that does not fall under its authoritative area. The legacy RPS is beyond its life cycle and is unable to meet emerging user needs due to technological limitations. NRR is currently in the process of replacing the legacy RPS (Replacement RPS project) with a browser-based system with streamlined business processes to improve user productivity. The agency is also working on other corporate initiatives concurrently, which the RPS program is dependent on. These initiatives include but are not limited to:

- Master Data Management (MDM) Program - Interface Management / Authoritative Data Source
- TAC Management Project (TMP) - A new system streamlining the TAC (Task Assignment Control) number business processes to meet the needs of a new fee billing structure

The legacy RPS consists of data that does not belong to RPS or assist in meeting NRR's mission needs. Such data elements were identified and recommendations were made to move the unrelated data back to its authoritative source. These recommendations were developed by OIS through the MDM project, also referred to as Authoritative Data & Interfaces (AD&I). One of the goals of the Replacement RPS project is to build a flexible system with data related only to the operating reactor arena, which meets the NRR's mission. The Replacement RPS project will ensure that this unrelated data is moved to its authoritative source with the help of MDM's recommendations and guidance.

Contractor IV&V services are required to provide quality assurance monitoring and analysis across all RPS activities to ensure that the product, service, system and specifications fulfill the intended purpose. The IV&V Contractor will determine the correctness and reliability of the RPS program which includes the Legacy RPS, Replacement RPS, and other agency initiatives / operations impacting RPS.

2.1 Legacy RPS

The following stovepipe applications comprise the legacy RPS:

- Inspection Planning and Assessment System (IPAS)

- Inspection Planning Cycle System (IPC)
- Inspection Reporting and Tracking System (IRTS)
- Inspection Procedures (IP)
- Inspection Reporting (IR)
- Reactor Operating Programs (ROP)
- Reporting module (REPORTS)
- Security Access Module (SAM)
- Tables used by Systems (TABLES)
- Time Resource Information Management (TRIM)

The NRR systems listed below are currently not part of the legacy RPS but will be included in the Replacement RPS as they fall under the reactor arena and support NRR's mission to protect public health and ensure safe operations of the power and non-power reactors:

- Dynamic Web Page (DWP)
- Human Factors Information System (HFIS)
- Operator Licensing Tracking System (OLTS)
- Reactor Operations and Events (ROE)
- External web version of ROE (ROEWEB)
- Firefly - supports the functionality of scheduling and tracking the licensing activities

2.2 Legacy RPS Interfaces

The legacy RPS interfaces and shares data with other agency systems, which are expected to undergo a few changes per the MDM Program's recommendations in an effort to move data to its authoritative source. The systems that the legacy RPS interfaces with are listed below.

- Human Resource Management System (HRMS)
- Web Base Licensing (WBL) & Storage and Transportation Information Management System (STIMS)
- Financial Accounting and Information Management System (FAIMIS)
- Enforcement Action Tracking System (EATS)
- Office of Investigation Management Information System (OIMIS)
- Allegation Management System (AMS)
- Case Management System (CMS)
- Cost Accounting System (CAS)
- Enterprise Project Management (EPM)
- Program Management and Notification System (PMNS)
- Technical Assignment Control System (TACS)
- General License Tracking System (GLTS)

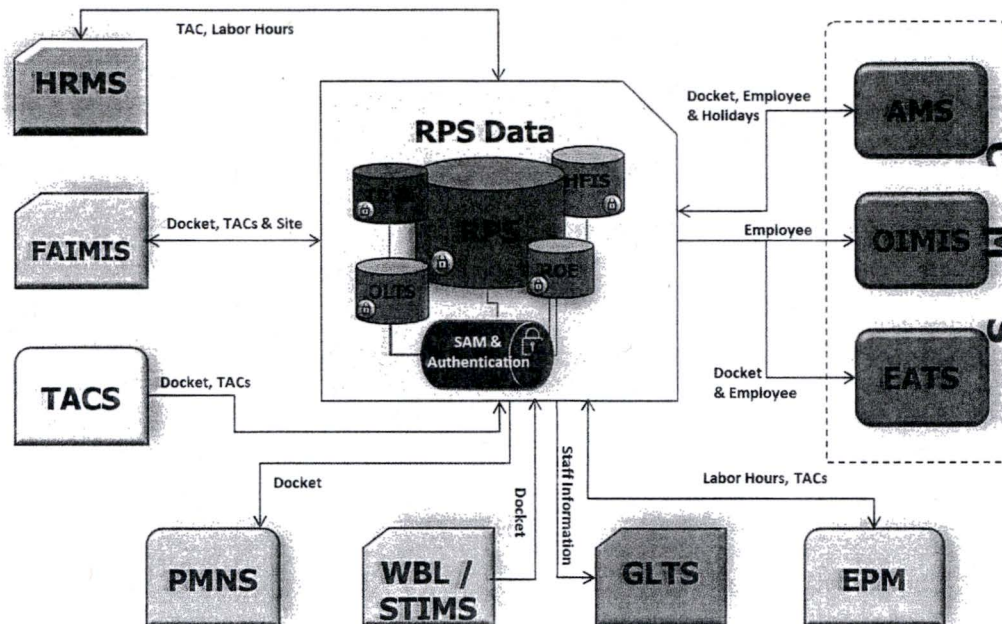


Figure 1. Legacy RPS and Interfacing Applications

More Information on the basic functions of these systems and some frequently asked questions on the client-server environment can be found at: <http://nrr10.nrc.gov/rps/how-do-i/>

2.3 Replacement RPS (RRPS)

The RRPS project is intended to replace the legacy RPS system with a new modernized system that is capable of being agile and flexible to business needs and processes, using open standards, and laying the groundwork for an enterprise workload planning solution.

The RRPS project is focused on:

- Tracking operator licensing, planning/scheduling inspections, ensuring licensing workload management, reporting findings resulting from those inspections, and reporting activities of plant events.
- De-coupling some of the existing data and processes identified by the MDM program from RPS to include only the authoritative data, which RPS should either send or receive in support of the Operating Reactor mission.
- Creating architecture for the Replacement RPS that aligns with the envisioned Enterprise Workload Management System.
- Maintaining the existing Legacy RPS, which includes all components as shown in Figure 1, until the Replacement RPS can be fully implemented? The Legacy client server based RPS is used as a primary tool to plan and schedule work assignments and inspection activities, and to record inspection findings. The continuity of operations and

core functionality that the current system provides cannot be lost during the modernization process.

The anticipated feature sets of the RRPS in the order of development and deployment are as follows:

- First Component
 - Operator License Tracking System (OLTS)
- Second Component
 - Inspection Scheduling and Tracking
 - Workload Management and Licensing Activities (NRR's Firefly)
- Third Component
 - Reactor Oversight Process (ROP)
 - Reactor Operating Events (ROE)
 - Human Factor Information System (HFIS)
- Fourth Component
 - Interfaces and Data
 - Shared Functions, including Queries and Reports

The RRPS project is currently in the low level requirements and design phase, which includes building an overall architecture and a framework for the entire RRPS. The first task under this phase is to develop and implement the Operator License Tracking System (OLTS).

3. SCOPE

The objective of this task order is to provide IV&V services and analysis to the RPS program, which includes the legacy RPS, Replacement RPS and other agency initiatives/operations impacting RPS including MDM and TMP. The analysis shall include the operational environment, hardware, software, interfacing applications, security, documentations, and users to ensure that the product is well engineered and developed in accordance with customer requirements.

The objectives include but are not limited to:

- Promote early detection of project/product variances
- Enhance management insight into processes and product risk
- Support project life cycle processes to ensure compliance with regulatory, performance, schedule, and budget requirements
- Validate the RRPS project's product and processes to ensure compliance with defined requirements

IV&V findings and reports shall provide supporting evidence that the product does satisfy client requirements. IV&V shall be performed throughout the project's life and may be executed incrementally at specific points in the life cycle or performed in a manner that is integrated into all project efforts, in parallel with the project and product development activities.

The IV&V Contractor team shall review and examine the project's processes with the goal of preventing omissions, identifying problems, and ensuring the product is being developed correctly. Some verification activities may include items such as but are not limited to:

- Verification of requirements against defined specifications
- Verification of design against defined specifications
- Verification of product code against defined standards
 - Check the sanity of the code, algorithms used and documentation, etc., with the primary concern of verifying and ensuring proper use of syntax throughout the project's products
 - Code reviews – Systematic examination of the product's source code
 - Inspections – Peer review of work products and documentation
 - Walkthroughs – Inspecting source code by following logical paths through the algorithms or code as determined by input conditions and choices made along the way
- Verification of terms, conditions, payments, etc., against contracts

The IV&V Contractor team shall validate by establishing documented evidence that provides a high degree of assurance that an RPS program product, service, or system accomplishes its intended requirements. The IV&V Contractor team shall validate that the product being developed does what the user is expecting it to do. This shall be facilitated by but is not limited to:

- Validating that requirements are adequately defined
- Design and functionality conform to requirements
- Data is treated correctly, and that test results are accurate.
- Dynamic testing approaches that test by examining the product's physical response to changing variables
- Unit testing
- Integration testing
- Function testing
- System testing
- User acceptance testing
- Black-box testing of product functionality to obtain release acceptance

4. PERFORMANCE REQUIREMENTS

This task order requires Contractor support to perform independent verification and validation services for the RPS program, includes legacy operations and replacement efforts in accordance with this Performance Work Statement. The support services shall include independent analysis and verification of deliverables for the legacy RPS (MOM FA2) and Replacement RPS (MOM FA4) task orders. The specific tasks are listed below:

Task # 1: IV&V Support Requirements

IV&V support services are required to establish and maintain quality assurance (QA) processes. The Contractor shall oversee and conduct a comprehensive review of the legacy and Replacement RPS processes and deliverables. The Contractor shall provide independent analysis and oversight recommendations to the NRC RPS TO CORs (Project Managers).

The IV&V oversight areas include but are not limited to: (1) Research and Analysis; (2) Quality Assurance; (3) Data Assurance; (4) Business Process; (5) Technical Design; (6) Developer Process; (7) Integration Review; (8) Release Testing; (9) Configuration Management; and (10) Data Repository.

Task # 2: IV&V Governance Requirements

The IV&V Contractor shall provide oversight and quality assurance reports and recommendations to the NRC RPS project managers, for the legacy operations and replacement efforts. Since these reports and recommendations may be included in discussions and decision-making by RPS Governance boards, a brief summary of the governance is included below. The NRC RPS Project Manager will determine whether to include the IV&V Contractor Project Manager (PM) in meetings and discussions with these governance boards.

The RPS Legacy and Replacement Projects will operate under the governance of an Executive Steering Committee (ESC), an Integrated Project Team (IPT), and an RPS Configuration Control Board (CCB). The CCB conducts three types of reviews: (1) investment reviews; (2) verification and pre-release reviews; and (3) authorization for release reviews.

The NRC RPS project managers shall conduct the Integrated Project Team reviews, which may include presentation and reviews by the IV&V Contractor PM of the IV&V Oversight Reports and IV&V Summary Reports.

The NRC RPS project managers will conduct the RPS CCB reviews, which may include presentation and reviews by the IV&V Contractor PM of the IV&V Oversight Reports and IV&V Summary Reports.

The NRC RPS project managers will participate in the ESC reviews, which may include presentation and discussion of issues and mitigation recommendations that were identified in the IV&V Oversight and QA processes.

The NRC RPS project managers will conduct the CCB authorization for release reviews. The IV&V Contractor process manager or engineer may present the processes and results to the required parties, e.g.; CCB, for validation of systems, capabilities, and interfaces prior to deployment.

Task # 3: IV&V support related to RPS Legacy Systems

The RPS legacy system will continue to be maintained under the MOM FA2 task order. As replacement systems, capabilities, and interfaces are deployed, this legacy work will be phased out. It is very important for the IV&V Contractor PM to coordinate work with the legacy M&O Contractor and also participate in the systems migration planning and transition to the replacement.

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5. PERFORMANCE STANDARDS

Performance standards establish the performance levels required by the Government. All of these standards shall be captured and clearly displayed in a Quality Assurance Surveillance Plan (QASP).

6. DELIVERABLES AND DELIVERY SCHEDULE

Task	Service/Deliverable	Due Date
Change Request Analysis	Analysis document	Must be completed within two (2) weeks (ten – 10 business days) of TO COR's request.
Incoming RPS Help Desk Analysis (items requested by PM only)	Analysis through email	Analysis must be completed within three (3) business days of the incoming request
Code analysis	Analysis document	Task must be completed on TO COR's requested completion date
Application Testing	Testing Document	Task must be completed on TO COR's requested completion date
Document Review	Comments by email or document	Task must be completed on TO COR's requested completion date

7. GOVERNMENT-FURNISHED PROPERTY

Government provided computer equipment, and required software to conduct the IV&V services.

8. QUALITY CONTROL

The Contractor shall develop and maintain a complete Quality Control Plan (QCP) to ensure that the requirements of the task order are performed in accordance with this, PWS. The QCP shall describe the methods for identifying, preventing, and ensuring any defective services are corrected before the level of performance becomes unacceptable. The Contractor's QCP shall address the tasks in the section 4, Performance Requirements, of this PWS.

One copy of the Contractor's QCP shall be provided to the CO at the time its proposal is submitted. After acceptance of the QCP the contractor shall receive the CO acceptance in writing of any proposed changes to its plan. An updated copy of the QCP must be provided to the CO as changes occur during the performance of the contract.

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9. PLACE OF PERFORMANCE

The work will be performed on-site at NRC Headquarters, 11555 Rockville Pike, Rockville, Maryland.

10. SECURITY

The work is not classified.

11. SPECIAL QUALIFICATIONS / KEY PERSONNEL REQUIREMENTS

Contractor personnel providing support under this order must clearly demonstrate expert knowledge and experience in performing the tasks listed above. Assigned personnel shall have senior level experience in all of the specialties listed below:

- a. Client server technologies and
- b. PowerBuilder
- c. Sybase Database and Transaction SQL
- d. ColdFusion
- e. Data migration from Sybase to other relational databases like SQL Server etc.
- f. Applications development
- g. Code analysis
- h. Document review
- i. .NET
- j. Java
- k. Relational database design
- l. Structured Query Language (SQL)
- m. Stored Procedure development and analysis
- n. Testing
- o. Jazz toolset

12. SECTION 508 – ELECTRONIC AND INFORMATION TECHNOLOGY STANDARDS

In December 2000, the Architectural and Transportation Barriers Compliance Board (Access Board), pursuant to Section 508(2)(A) of the Rehabilitation Act Amendments of 1998, established information technology accessibility standards for the federal government. Section 508(a)(1) requires that when federal departments or agencies develop, procure, maintain, or use Electronic and Information Technology (EIT), they shall ensure that the EIT allows federal employees with disabilities to have access to and use of information and data that is comparable to the access to and use of information and data by other Federal employees. The Section 508 requirement also applies to members of the public seeking information or services from a federal department or agency. Section 508 text is available at

<http://www.opm.gov/HTML/508-textOfLaw.htm> or <http://www.section508.gov/>

All Electronic and Information Technology (EIT), as defined at FAR 2.101, supplied under

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this contract/order must conform to the Architectural and Transportation Barriers Compliance Board Electronic and Information Technology Accessibility Standards (36 CFR Part 1194). The applicable standards are available at:

<http://www.access-board.gov/sec508/guide/index.htm>.

The following standards are applicable to this contract/order:

- Software Applications and Operating Systems (1194.21)
- Web-based Intranet and Internet Information and Applications(1194.22)
- Telecommunications Products (1194.23)
- Video and Multimedia Products (1194.24)
- Self-Contained, Closed Products (1194.25)
- Desktop and Portable Computers (1194.26)

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Task Order Quality Assurance Surveillance Plan (QASP)

This performance-based Quality Assurance Surveillance Plan (QASP) is intended to set forth the process that the U.S. Nuclear Regulatory Commission (NRC) will use in evaluating the technical performance of the Contractor in accordance with the terms and conditions of the ITS-IV&V contract.

This QASP will be used as a Government document to assist in monitoring contractor activities and during inspection and acceptance of contract deliverables. The Government reserves the right to make changes to the QASP during the life of the task order. Performance information generated from surveillance activities will directly feed into status and performance discussions with the Contractor.

Required Services	Due Date	Acceptable Quality Level (AQL)	QASP Monitoring Method
Change Request Analysis	Must be completed within two (2) weeks (ten – 10 business days) of TO COR's request.	Deviation is not more than one business day.	Periodic Inspection.
Incoming RPS Help Desk Analysis (items requested by PM only)	Analysis must be completed within three (3) business days of the incoming request	Deviation is not more than one business day.	Positive response from the originator or the TO CORs inspection.
Code analysis	Task must be completed on TO COR's requested completion date	Deviation is not more than two business days.	Periodic Inspection and analysis.
Application Testing	Task must be completed on TO COR's requested completion date	Deviation is not more than two business days.	Periodic Inspection.
Document Review	Task must be completed on TO COR's requested completion date	Deviation is not more than two business days.	Periodic Inspection and review.