AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0004	05/14/2009		

6. ISSUED BY CODE 00091

DOT/Maritime Administration, MAR-380
400 Seventh Street, SW., Room 7310
Washington, DC 20590

7. ADMINISTERED BY *(If other than Item 6)* CODE 00091

DOT/Maritime Administration, MAR-380
400 Seventh Street, SW., Room 7310
Washington, DC 20590

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and Zip Code)*

HARVEY STORY
AREVA FEDERAL SERVICES LLC
7475 WISCONSIN AVE,STE 1100
BETHESDA, MD 20814-2969

CODE p FACILITY CODE

	9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED *(SEE ITEM 11)*
(X)	10A. MODIFICATION OF CONTRACT/ORDER NO. DTMA1D07001 / TO080000003
(X)	10B. DATED *(SEE ITEM 13)* 11/28/2007

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. FAR Clause 52.212-4 CONTRACT TERMS AMD CONDITIONS - COMMERCIAL
☐	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:
☐	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.)*

a. The purpose of this modification is to adjust for clarification and increase scope of work with regards to Electrical Engineering Planning as per the attached Statement of Work

b. Increase funding by $23,375.00 from $646,345.00 to NTE amount of $669,720.00

c. All other terms and conditions of item 10A above remain unchanged.

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)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)* M. E. Simmons	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED	16B. United States of America BY M. E. Simmons *(Signature of Contracting Officer)*	16C. DATE SIGNED 05/14/2009

Scope of Work: Task Order - NSS SAFSTOR Planning and Engineering

1. OVERVIEW

The Contractor (Areva, N.P.) developed a plan to bring the N.S. SAVANNAH into contemporary industry standard for Safe Storage (SAFSTOR). The contractor shall now develop the detailed engineering and planning required for executing the industrial efforts necessary to meet the contemporary standard of SAFSTOR.

2. SCOPE OF WORK

The scope of this task order relates to the all engineering and planning functions necessary for carrying out the "Industrial effort" for accomplishing SAFSTOR status as defined by the Nuclear Regulatory Commission. This shall include:

- attending meetings
- conducting ship surveys
- conducting research
- conducting interviews
- preparing reports, procedures as may be required

More importantly, it is not the intention of this task order to conduct the actual installation of systems or equipment or otherwise make modification the N.S. SAVANNAH.

3. ADMINISTRATIVE REQUIREMENTS

3.1 Progress Reports

Progress reports shall be in accordance with the contract and may be combined with reports for previously issued tasks.

3.2 Travel

Travel where directed shall be reimbursable in accordance with Federal Travel Regulations

3.3 Meetings

Meetings and telephone conferences shall be scheduled in advance to allow for preparation, travel planning and agenda development. WebEx Internet Conference services can be provided where necessary. Travel by the contractor or the government shall be determined on a case-by-case basis. The contractor shall plan to attend the following meetings or teleconferences to discuss the status of the Task Order:

NOTE: Assume that the following shall be teleconference meetings unless otherwise determined as per the above paragraph.

3.3.1 KICK-OFF MEETING

This may be conducted as a teleconference at the contractor's request

3.3.2 STS PROJECT TEAM TELECONFERENCES

This meeting is generally scheduled on a bi-weekly basis and is approximately one-hour in duration.

3.3.3 PROGRESS MEETINGS

This meeting shall be scheduled by the contractor to occur not earlier than 3-weeks after Notice-to-Proceed (NTP) and no later than 6-weeks after NTP. The contractor shall be prepared to discuss progress made to date, problem areas requiring government input for resolution and clarifications regarding the task order. Additional meetings shall be conducted on a monthly basis

3.3.4 CLOSE-OUT MEETING

The contractor shall be prepared to attend a task order close-out meeting to deliver the final N.S. SAVANNAH SAFSTOR Plan, schedule and cost estimate with details and brief the N.S. SAVANNAH Technical Staff and Team on its implementation.

4. FUNCTIONAL REQUIREMENTS

{DEFERRED} Items tagged as such are deferred subject to the availability of funds, by modification to this task order. All items shall be priced for negotiation and consideration.

4.1 SAFSTOR Cost Estimate

The contractor shall prepare a Cost Estimate (the Estimate) for achieving SAFSTOR status. This Estimate shall be based on the Work Breakdown Structure (WBS) and schedule previously provided to the government under Task Order 07-002. The estimate and WBS shall be detailed down to the activity based tasking and logically linked with in the Project Schedule.

4.2 Post Shutdown Decommissioning Activities Report (PSDAR)

The contractor shall assist the government's License Compliance Manager with incorporating the SAFSTOR Plan into the PSDAR as necessary. This shall include the contractor providing the necessary effort to support any meetings with the NRC and the public associated with the PSDAR.

4.3 Historical Site Assessment (HSA)

The contractor shall conduct an Historical Site Assessment of the N.S. SAVANNAH which shall include, but not limited to, assisting the government in conducting interviews of former N.S. SAVANNAH employees. Activities for preparing the assessment shall also include following MARSSIM guidance, e.g., Section 3.1 and 3.2. The contractor shall evaluate and summarize all existing characterization type data, including data used in the N.S. SAVANNAH Reactor Pressure Vessel Waste Classification Study. The contractor shall conduct a gap analysis of existing data to required (MARSSIM) data.

4.3.1 ORAL HISTORIES

The contractor shall plan and prepare to interview former N.S. *Savannah* Crew members and associates in order to get a sense of their experiences and memories while associated with the NSS. This information shall be used to develop the HSA. As a part of this process, the contractor may be required to engage the services of professional folklorists for the taking of oral histories, and acquire the services of one or more video and audio recording professionals. Video recordings will be digital format, with raw and edited footage provided as deliverables in specified format.

Note: All recording deliverables shall be provided on Digital Video Disks (DVD) suitable for replay in a Microsoft Operating System Environment.

4.4 Derived Concentration Guideline Levels (DCGLs)

As part of the HSA, the contractor shall develop the initial Derived Concentration Levels (DCGLs), identify survey areas, and assign MARSSIM Classifications for each area identified.

4.5 Characterization Survey Plan

The contractor shall develop a Characterization Survey Plan following MARSSIM guidance where it is practical. This shall include Sampling and Analysis Plan (SAP) and other supporting procedures necessary to conduct an MARSSIM Characterization Survey.

4.6 Engineering and Planning Tasks

The contractor shall conduct engineering assessments and system walk downs sufficient to complete the engineering tasks that follow. The engineering tasks shall include cost estimates for each activity identified and preliminary schedule for the completion of each activity shall be included in the SAFSTOR Schedule. The contractor shall coordinate effort for the following engineering tasks with related tasks assigned to the General Agent.

4.6.1 SAFETY UPGRADES PLAN

The contractor shall conduct surveys and assessments as may be necessary to develop a Safety Plan for the N.S. SAVANNAH in SAFSTOR. As part of the plan, the contractor shall identify safety hazards to routing monitoring and surveillance of the nuclear facility while in SAFSTOR, and make the necessary recommendations for Safety Upgrades. The efforts involved shall include coordinating the necessary sample collecting and evaluation with those efforts for the conduct of the Characterization Survey.

4.6.2 ELECTRICAL SYSTEM ENGINEERING PLAN

The contractor shall conduct a “hands-on” review and walk down of the electrical distribution system by a qualified electrical engineer. The contractor shall develop a plan and specification necessary for implementing the accepted recommendations of the engineer for making the system safe while the facility is in SAFSTOR.

4.6.2.1 Load Center Design

In order to isolate nuclear systems SAFSTOR and eventual decommissioning a new shore power connection and load center is required. The contractor shall design input to the load center/shore power connection sufficient to support the facility for the next twenty (20) plus years. Requirements for the load center should address:

1. Specification requirements for each unit of the installation
2. Specification requirements for each unit of the installation
3. Location – identified as the stateroom (C-12) and C-10 (if required) located just forward of the engineering side port on the port side on “C” Deck. Overhead clearance dimensions for the room provided by separate e-mail 3/31/09. New transformers, if installed should be located near their loads where possible.
4. Design parameters:

a. Feeds - should be designed to feed two locations: 1) Lighting Load Center Switchboard on "A" Deck aft on the port side, and 2) Lighting Load Center Switchboards on "B" Deck forward on the starboard side;

b. Connected Loads (assumptions)

i. Existing lighting and convenience power distribution on the Prom, A, B, C decks,

ii. Newly installed HVAC systems for B deck and anticipated installation for Prom/A-deck areas.

iii. (3) to be installed mooring winch installations

iv. Emergency Egress Lighting should be rechargeable from existing lighting/convenience power distribution system (battery ballast or restaurant – rechargeable floodlight units)

v. Industrial activities/contractors shall provide their own power necessary to operate welding and other heavy duty industrial machinery and spot ventilation.

vi. We will require additional HVAC to provide negative pressure in the RC during future industrial efforts. Lighting in the Reactor Compartment (RC) shall be by temporary/portable load center for light strings, and environmental monitoring.

vii. We will require additional power for intermittent Fresh Water and MSD pumping to/from tanks to Heads, sinks and shower.

viii. Power reservation for an elevator.

c. Regulations – installation shall meet the USCG and American Bureau of Shipping requirements as necessary. All wiring and installations shall be marine grade.

5. Instrumentation – The Government will identify the specific instrumentation requirements, but at a minimum shall include:

a. Ground detection

b. Amp meter

6. Loads – Should address

a. Existing loads to be brought over,

b. New Loads and Load Reservations (see 4.b above)

c. Identify voltage requirements.

d. Total Amperes

4.6.3 HVAC SYSTEM ENGINEERING PLAN

The contractor shall conduct a "hands-on" review and walk down of the Heating and Ventilation Air Conditioning (HVAC) system by a qualified HVAC engineer. The contractor shall develop a plan and specification necessary for implementing the accepted recommendations of the engineer for providing heating and ventilation to ensure a "SAFE WORK ENVIRONMENT" during the SAFSTOR preparation phase and ensuring that the system safe remains safe from hazards while the facility is in SAFSTOR.

4.6.4 MECHANICAL SYSTEMS ENGINEERING PLAN

The contractor shall conduct a "hands-on" review and walk down of the electrical distribution system by a qualified mechanical engineer. The contractor shall develop a plan and specification

necessary for implementing the accepted recommendations of the engineer for making the system safe while the facility is in SAFSTOR.

5. DELIVERABLES

NOTE: The contractor shall propose a deliverable schedule for all deliverables. Initial submittals shall be considered DRAFT for comment by the government. The Final shall be submitted 10 days following receipt of any comments made by the government.

5.1 SAFSTOR Cost Estimate

5.1.1 COST ESTIMATE

Draft due 1/18/2008

Final due upon receipt of comments ..... 5 days

5.1.2 WORK BREAKDOWN STRUCTURE

Draft due 1/18/2008

Final due upon receipt of comments ..... 5 days

5.1.3 SAFSTOR PROJECT SCHEDULE

Initial 1/18/2008

Revisions ..... As Required

5.2 Post Shutdown Decommissioning Activities Report

Draft due 1/18/2008

Final due upon receipt of comments ..... 10 days

5.3 Historical Site Assessment

Draft due 6/30/08

Draft transcription of audio recordings by Folklorists 6/30/08

Oral History video and audio “Raw” recordings (2-Copies – DVD format) ... 6/30/08

Final due upon receipt of comments ..... 10 days

Final transcription of audio recordings by Folklorists (upon receipt of comments) ..... 30 Days

Oral History video and audio “Edited” recordings (2-Copies – DVD format) 6/30/08

5.4 Derived Concentration Guidelines Levels

Draft due ..... As Required

Final due upon receipt of comments ..... 10 days

5.5 Characterization Survey Plan

Draft due ..... As Required

Final due upon receipt of comments ..... 10 days

5.6 Engineering Plans

5.6.1 SAFETY UPGRADES PLAN

Draft due ..... TBD

Final due upon receipt of comments ..... 10 days

5.6.2 ELECTRICAL SYSTEM ENGINEERING PLAN

Draft due ..... TBD

Final due upon receipt of comments ..... 10 days

5.6.2.1 Load Center Design

Draft due ..... 2 days from Mod.

Final due upon receipt of comments ..... 10 days

5.6.3 HVAC SYSTEM ENGINEERING PLAN

Draft due ..... TBD

Final due upon receipt of comments ..... 10 days

5.6.4 MECHANICAL SYSTEMS ENGINEERING PLAN

Draft due ..... TBD

Final due upon receipt of comments ..... 10 days

6. GOVERNMENT FURNISHED INFORMATION

6.1 Rough of Order of Magnitude Cost Estimate and Final Report

6.2 N.S. SAVANNAH Reactor Pressure Vessel Drilling, Sampling and Radiochemical Analysis Report

6.3 N.S. SAVANNAH Radiological and Non-Radiological Spaces Characterization Survey Report (Rev 1)

6.4 N.S. SAVANNAH Operation Logs, Technical Manuals, Drawings and other historical information

This information will be made available onboard N.S. SAVANNAH, where available, as required.

Line Item Summary	Document Number	Title	Page
	TO080000003/0004	EMOS--NS SAVANNAH	2 of 2

Total Funding: $669,720.00

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
0008	Electrical System Engineering Plan	(03/10/2008 to 12/31/2008)	0.00	NTE	$23,375.00	$23,375.00

Change in Funding, Unit Price
See attached statement of work Para.4.6.2

Funding Information:
2009 - 70 - X17680 - 1SD - SD - SAV - HQ - 000016000 -
25301 - - 6100 - - 6600 - - - -
23,375.00

Previous Total: $646,345.00
Modification Total: $23,375.00
Grand Total: $669,720.00
(Includes Discounts)