

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 14 PAGES
2. AMENDMENT/MODIFICATION NO. A001		3. EFFECTIVE DATE April 16, 2015	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)
6. ISSUED BY American Embassy – GSO 91 Vas. Sophias Avenue 101 60 Athens		CODE	7. ADMINISTERED BY (If other than Item 6) CODE		
8. NAME AND ADDRESS OF CONTRACTOR (NO., street,city,county,State,and ZIP Code)			X	9a. AMENDMENT OF SOLICITATION NO. SGR100-15-R-0001	
				9b. DATED (SEE ITEM 11) 04/27/2015	
				10a. MODIFICATION OF CONTRACT/ORDER NO.	
				10b. DATED (SEE ITEM 13)	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<p>[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [X] 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 <u> 1 </u> 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.</p>					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
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:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor [X] is not, [] is required to sign this document and return _____ 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 amendment is to make the revisions as set forth in the attached pages:					
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 OF CONTRACTING OFFICER Rebecca E. Fox		
15B. NAME OF CONTRACTOR/OFFEROR BY _____ (Signature of person authorized to sign)		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED

1. Please direct any questions regarding this solicitation in writing to AthProcurement@state.gov. Questions must be written in English, and may be sent by **13.00 local time, on April 21, 2015**.
2. Attachment 4, Statement of Work is revised to read as follows:

ATTACHMENT #4
Statement of work

Scope of work

Natural gas installation on ten government owned residences for central heating and domestic hot water

US Department of State - Athens
by PP

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1. SITE ADDRESSES

To be provided

2. BACKGROUND

All government own properties are currently using fuel oil burners for central heating and for domestic hot water. Contractor will need to replace fuel oil burners in all residences with new wall mounted natural gas furnaces or with mixed fuel burners (natural gas and fuel oil) mounted on the existing boilers, install the natural gas supply line along with all regulation required safety valves and mechanisms and make all necessary arrangements, acquire necessary permits with the city natural gas utility company in order to connect the properties to the city grid.

3. SCOPE OF WORK

This document is being issued by the US Department of State with the purpose to enter into a contract the following works:

- Remove and discard old fuel tank
- Remove old fuel oil supply piping
- Remaining fuel inside fuel tanks should be filtered from debris and will have to be transferred to fuel tanks in other houses located around Athens. Location will be provided after the natural gas burner has been installed and commissioned.
- Prepare all necessary design documents for submitting to EPA (Natural Gas Company) and getting the required permit in order to connect to the city grid. Contractor is responsible for all design documents, permits and fees associated.
- Provide the embassy with all the necessary testing and installation certifications
- Install new natural gas burners together with the natural gas main line supply, all necessary safety valves, earthquake valves, high temperature valves, natural gas detectors, manual and electromagnetic shutoff valves, natural gas meters, filters and all other required by Greek law on FEK 963/2003 and FEK 976/2012 and other related technical documentations and any updates.
- Emergency button should be installed outside every boiler room, labelled as “Natural Gas Emergency Shut Off” in both Greek and English.
- Existing boilers and solar kits for domestic hot water will remain. Install valves and automation to supply hot water from the new furnace to the boiler.
- For the domestic hot water install the necessary bypass valves to bypass the boilers and to have the option to directly supply manually hot water from the heaters to the water faucets, if and when needed
- Install a real time natural gas metering device
- In all houses there should be a T-connection on the main pipe leading to capped ½” pipe with a manual valve serving the purpose of future connection for stove and other kitchen

equipment. In the Jefferson, Madison, Monroe and KNOX the kitchen equipment piping should be ¾”.

- Pressurize installed piping to verify for leaks
- Test and commissioning of the system to verify proper operation. This includes exhaust gases measurement and issuance of PERPA certification
- Make sufficient natural flow ventilation openings according to the burner size as defined in FEK 963/2003 and FEK 976/2012. Install mechanical means of ventilation in locations where there can be no direct to the outside with a means or window or existing shaft
- Install automation inside the existing burner power panel or to a new small subpanel next to it, which switches operation from the new natural gas burner to the existing fuel oil burner. Switch should be two position and labelled “Natural Gas/Fuel Oil”.
- One line riser diagram of all associated plumbing installation will have to be prepared for every property, identifying all valves, existing and newly installed.

The above mentioned works apply to every residence. Small variations from property to property depending on current installation and property size will occur. Those variations are mentioned below on the specific conditions and will be also addressed during the walkthrough on every property.

Any piping modifications that will be needed on the existing piping in order to accommodate the installation of the new burners falls into the responsibility of the contractor. Any existing lights/switches/power disconnects that will need rerouting will not be the responsibility of the contractor.

Contractor is responsible for all onsite final measurements. Dimensions shown on this SOW are only indicative.

Contractor has to follow all regulations regarding natural gas installations as specified on FEK 963/2003 and FEK 976/2012 and all other related documentations. Also has to pre-submit all specifications of material to be used, as well as CE certifications. Equipment installations must be according to manufacturer’s specifications. COR needs to be notified in advance of any technical problems that might occur before or during installation.

Equipment shall be installed so that access clearance is available for all necessary servicing/maintenance.

All piping has to be protected during construction period to avoid debris getting in and/or clogging them.

Local quiet hours have to be observed on activities that are noisy. Not noisy works can take place during the quiet hours.

4. GENERAL CONDITIONS

4.1 MATERIALS, TOOLS AND CODES

4.1.1 Piping Specifications

Piping should be certified for natural gas installation, sized according to the burner size. Underground piping should be buried at 60cm below grade, while above grade pipes should be painted yellow and marked as natural gas pipes. Exact piping routes shown on the attached drawings and will be identified during walkthrough. **Contractor is responsible for all onsite final measurements. Dimensions shown on this SOW are only indicative.**

Pipes should be steel galvanized heavy duty certified according to EN10255H and anchored every 1m of length. Piping parts should be in accordance with ELOT EN 10253-1.

Underground piping should be laid on a properly compacted 10cm sand layer. Backfilling material should be fine without any rocks and/or other large pieces. Where the 60cm depth burying cannot be satisfied, the pipe should be protected by a 10cm layer of concrete. 30cm below grade a yellow indicated yellow mesh should be installed to mark the pipe routing.

All pipe penetrations to the building should be done by means of core drilling. A proper sized sleeve should be made around the pipe which will have to be water proofed by means of elastic material suitable for outside installation. All metal pipes and equipment have to be grounded according to ELOT HD 384.

Small portion of flexible piping to be used for terminal connections should be certified according to ELOT EN 14800.

All underground piping installed should be at least 50cm away from electrical conduit and 25cm away from water pipes. In crossover where this can't be achieved, the gas pipe will have to be enclosed in a heavy duty plastic pipe.

4.1.2 Natural Gas Burners

Sizing of the new burners will have to be according to the existing ones shown on the table below unless otherwise stated on the specific conditions.

Residence	Gross Sq. meters	Furnace (Kcal/h)	Furnace (KW)	Main Supply Pipe Size (in)
Jefferson	1486.96	155,000	200	2.5
Madison	736.6	120,000	155	2.5
Monroe	657.08	150,000	194	2.5
Knox	534.92	45,000	58	1.25
Webster	355.81	56,000	72	1.25
Marshall	334	40,000	52	1.25
Lansing	318.46	45,000	58	1.25
Van Buren	270	56,000	72	1.5
Buchanan	250.37	50,000	64	1.25
Seward	235.04	35,000	45	1.5

4.1.3 Natural Gas Burner

Where individual wall mounted furnaces are installed they should be either 28Kw or 35Kw each as mentioned in the specific conditions below. Wall mounted natural gas burner type C should be Bosch Gaz 7000 ZWC 35-3 or other with similar quality and technical characteristics, from a company that can provide support and service locally if needed.

Natural gas burners that will be adjusted on existing furnaces should be type B mixed fuel Weishaupt WGL series or equivalent, properly sized, with at least 2 power steps. This burner should be able when it operates in natural gas to completely disengage the fuel pump so that it does not require the pump to operate all the time.

If the specific burner cannot be mounted on the existing furnace then contractor will have to make any necessary adjustments. If no adjustments can be made then MGH(Man) burner can be used or other similar that has to be pre-submitted and pre-approved by COR.

4.1.4 Ventilation

Ventilation openings for wall burners should be as defined by FEK 963/2003 and FEK 976/2012 two openings of 5% of the boiler room volume with a minimum of 150cm². In location where it is feasible two equal openings should be made, one for supply air close to the floor and one for rejected close to the ceiling that will be far apart from each other. Where needed new aluminium window with a portion of anti-rain metal air grilles has to be installed to satisfy the above ventilation requirements and to allow for free flow ventilation into the boiler room.

In locations where mechanical ventilation will be required due to not having direct access to an outside

area, an automation will have to be installed that will shut down the gas supply outside the building for safety purposes when either the ventilation supply and/or exhaust fans will not work. An alarm status should be generated.

4.1.5 Safety Valves

Three manual valves should be installed, one at the natural gas meter, one just outside the boiler room and one inside the boiler room in proximity to the furnace.

Other safety valves to be installed are an earthquake valve as close as possible to the meter, a high temperature valve inside the boiler room and two electromagnetic shutoff valves CE certified by ELOT EN 14832. One valve will be NO with manual reset and will accommodate the natural gas detector alarm and one will be NC which will accommodate the rest of the alarms (emergency button, exhaust and intake air fans, electricity power loss).

Natural gas detector is also required in all locations inside the building to include the boiler room and any pipes routes inside the building either exposed or behind gypsum walls. Filters, one way valves and all other required by Greek law on FEK 963/2003 and FEK 976/2012 are to be installed as well.

4.1.6 Thermostats

In order to adjust the heating hot water temperature according to the outside temperature for more fuel saving will need to install an FW100 which will need to be connected to an outside sensor and the existing inside thermostat. One FW100 will be installed for every furnace.

4.1.7 Remote Metering

Installation of a natural gas utility meter and software SmartEcoMeter Gas by Zelitron that does not require internet connection but only a mobile telephone connection for remote metering purposes. Set up is required for the system to provide data of all meters to a centralized computer screen.

4.1.8 Chimney.

The wall mounted units exhaust gases should be vented by utilising the burner manufacture kit and installed according to the manufacture's installation instructions and according to local code. Each burner should have its own separate exhaust gases piping. Contractor is required to follow all exhaust gases piping termination minimum distances from windows, balconies and other elements as defined by FEK 963/2003 and FEK 976/2012. In case these requirements can't be met then the exhaust pipe has to be terminated at least 0.70cm above the roof or the penthouse of the structure.

For the burners that will be mounted on the existing boilers new double wall stainless steel chimneys properly sized for the burner power and height elevation will have to be installed. Where there is no access for installing a new exterior chimney, then the new metal chimney will be installed inside the existing one. All parts of the chimney should be solid, no flexible ones are allowed.

Sizing of the chimney has to be according to ELOT EN 13384-1.

4.1.9 Fire Door

Install a new 30min metal fire rated door into the boiler room that will open outwards. Also two 6kg fire extinguishers are required to be provided per installation and properly mounted in proximity to the natural gas burner.

4.1.10 All work must be executed strictly in accordance with the relevant and current Greek Standards, as well as the NFPA 85 for boiler and combustion systems and the latest International Fuel Gas Code.

4.1.11 All materials/equipment used must be CE and/or ASME and /or UL certified for the specific usage and have to be submitted for approval by the COR prior to ordering and installation. The contractor shall use high quality construction materials.

4.1.12 All electrical and automation installations required for the operation of the burners is responsibility of the contractor. Any power lines that need to be installed should be inside a plastic non flexible Condur-Conflex pipe by Kouvidis.

4.2 SAFETY

4.2.1 The construction site must be fenced and clearly identified.

4.2.2 Construction workers will be required to follow all safety regulations. Safety glasses will be required for all cutting/drilling works. Fire extinguishers and fire blankets will be required to be present in any hot works.

4.2.3 Contractor has to assure that proper “housekeeping” is kept during all times.

4.2.4 Contractor is responsible for following all safety regulations and/or instructions given by the embassy representative and required by OSHA and local safety guidelines.

4.3 CONTRACTOR RESPONSIBILITIES

4.3.1 The contractor shall provide the COR with a formal written time-schedule before initiation of works for every residence.

Permit issuance should be initiated immediately after the award of the contract.

The actual construction work per residence shall not be more than ten (20) consecutive calendar days, start counting from the date after the permit has been issued and the meter on the street side from the gas company has been installed. The whole project for all residences should be completed before the starting of the new heating season by October 15th. Contractor will be required to work in multiple residences at the same time (up to three) in order to meet this deadline.

Contractor should submit an official schedule for all residences once he acquires the permit, meeting the above conditions.

4.3.2 Coordination with COR will be required for all works during the whole project. COR will need to know at least a couple of days ahead of time on which areas the contractor will be working and plan with him in order to make an efficient schedule for all parties involved.

4.3.3 The bidders shall provide the cumulative duration of all work involved, addressing all deadlines mentioned in &4.3.1 above.

4.3.4 The contractor shall be responsible for the supply of all machinery, labour and materials necessary for the completion of the works. The contractor is responsible for all the contractor-owned tools and equipment at all times and shall provide a lockable tool and material box for their operatives if required.

4.3.5 All grounds and/or equipment that will be altered/damaged by the contractor have to be restored in their initially condition with no extra cost.

4.3.6 All materials to be used shall be indicated at the bidding and approved by the COR.

4.4 TESTING - COMMISSIONING

Test for leaks and pressurization of piping and all accessories and equipment has to be done prior commissioning. Written warranty for at least one year for all material installed and for good services received is required by the contractor.

Contractor should notify the COR to be present during the final inspection that will be performed by the natural gas company before connecting to the city grid. Contractor needs to provide this report generated by the gas company before commissioning.

In case there are any issues that need to be addressed and/or any modifications required by the gas company, then those fall directly into the obligation of the contractor and will have to be corrected by him in a timely manner with no additional cost.

5. RESIDENCE SPECIFIC CONDITIONS

5.1 KNOX RESIDENCE

Existing furnace will be removed. Will install 2-ea 28KW wall mounted units that will be used for both heating and domestic hot water application along with all other items mentioned above on the general conditions &4.1-1 to 4.1.12. The exhaust gas piping will be double wall inside the existing chimney, one for each burner. Window will have to be replaced with metal grilles in order to allow for free flow ventilation into the boiler room as defined by FEK 963/2003 and FEK 976/2012 with a

minimum of 150cm². Install new 30min metal fire rated door into the boiler room that will open outwards to the corridor.

5.2 BUCHANAN RESIDENCE

Existing furnace will remain. Will install 2-ea 28KW wall mounted units that will be used for both heating and domestic hot water application along with all other items mentioned above on the general conditions & 4.1-1 to 4.1.12. Window will have to be replaced with metal grilles in order to allow for free flow ventilation into the boiler room as defined by FEK 963/2003 and FEK 976/2012 with a minimum of 150cm². Install new 30min metal fire rated door into the boiler room that will open outwards to the corridor.

5.3 SEWARD RESIDENCE

Existing furnace will be removed. Will install 2-ea 28KW wall mounted units that will be used for both heating and domestic hot water application along with all other items mentioned above on the general conditions & 4.1-1 to 4.1.12. Window will have to be replaced with metal grilles in order to allow for free flow ventilation into the boiler room as defined by FEK 963/2003 and FEK 976/2012 with a minimum of 150cm². Install new grilled door into the boiler room that will open outwards to the yard.

The whole structure that encloses the existing fuel tank will have to be demolished and the tank removed.

5.4 MONROE RESIDENCE

Existing boiler will remain. Existing burner will be replaced with a mixed fuel one Weishaupt WGL30 series. New burner will be used for both heating hot water and potable hot water in the residence.

Installation of a new double wall stainless steel insulated chimney inside the existing one.

Install new 30min metal fire rated door into the boiler room that will open outwards. Change only burner.

Mechanical means of ventilation for both air supply and exhaust should be installed properly sized (minimum 400m³/hr and 200m³/hr respectively) according to the burner size according to FEK 963/2003 and FEK 976/2012. Existing ductworks will be utilized for intake and rejected air. Air flow sensor should be installed to ensure that there will be air flow while burners are operating. In case of no flow condition the NC valve should shut off automatically. The natural gas supply pipe should be encased inside an encased gypsum board rectangular shape with a minimum enclosure 20cmx20cm and ventilation openings placed in both sides (outside wall and boiler room).

Minimum of 2 natural gas sensors should be placed inside this enclosure that in case of an alarm will turn off the gas supply. Access doors should be placed in close proximity to those sensors for testing/servicing purposes.

5.5 MADISON RESIDENCE

Existing boiler will remain. Existing burner will be replaced with a mixed fuel one Weishaupt WGL30 series. New burner will be used for both heating hot water and potable hot water in the

residence.

Installation of a new double wall stainless steel insulated chimney inside the existing one. Contractor to verify that the new metal chimney can fit inside the existing one. If not, the chimney will have to be run on the exterior of the house. New opening with metal grilles has to be made in order to allow for free flow ventilation into the boiler room. Install new 30min metal fire rated door into the boiler room that will open outwards.

5.6 LANSING RESIDENCE

Existing furnace will be removed. Will install 2-ea 28KW wall mounted units that will be used for both heating and domestic hot water application along with all other items mentioned above on the general conditions &4.1-1 to 4.1.12. Window will have to be replaced with metal grilles in order to allow for free flow ventilation into the boiler room as defined by FEK 963/2003 and FEK 976/2012 with a minimum of 150cm². Install new 30min metal fire rated door into the boiler room that will open outwards to the corridor.

5.7 WEBSTER RESIDENCE

Existing furnace will remain. Will install 2-ea 35KW wall mounted units that will be used for both heating and domestic hot water application along with all other items mentioned above on the general conditions &4.1-1 to 4.1.12. Window will have to be replaced with metal grilles in order to allow for free flow ventilation into the boiler room as defined by FEK 963/2003 and FEK 976/2012 with a minimum of 150cm². Install new 30min metal fire rated door into the boiler room that will open outwards to the corridor.

5.8 MARSHALL RESIDENCE

Existing furnace will remain. Will install 2-ea 28KW wall mounted units that will be used for both heating and domestic hot water application along with all other items mentioned above on the general conditions &4.1-1 to 4.1.12. Window will have to be replaced with metal grilles in order to allow for free flow ventilation into the boiler room as defined by FEK 963/2003 and FEK 976/2012 with a minimum of 150cm². Install new 30min metal fire rated door into the boiler room that will open outwards to the corridor.

5.9 VAN BUREN

Existing fuel tank is underground and needs to be emptied.

Existing furnace will be removed. Will install 2-ea 28 KW wall mounted units that will be used for both heating and domestic hot water application along with all other items mentioned above on the general conditions &4.1-1 to 4.1.12. Window will have to be replaced with metal grilles in order to allow for free flow ventilation into the boiler room as defined by FEK 963/2003 and FEK 976/2012 with a minimum of 150cm². Install new 30min metal fire rated door into the boiler room that will open outwards to the corridor.

5.10 JEFFERSON RESIDENCE

Existing fuel tank is metal. Needs to be emptied, cleaned, cut in pieces by means of high pressure water jet and removed. Two plastic tanks 1,000lt capacity each (tanks will be provided by the owner)

will be installed in the same location.

A fire rated door has to be installed in order to separate the fuel tank area from the boiler room.

Possible restoration needed of existing mechanical equipment that is supported against the existing wall will have to be addressed.

The existing Buderus boiler should be removed and replaced by a same size Buderus Logano GE315 series. Existing burner will be replaced with a mixed fuel one Weishaupt WGL30 series. New burner will be used for both heating hot water and potable hot water in the residence. Install new 30min metal fire rated door that leads into the boiler room that will open outwards.

Free flow ventilation should be installed properly sized for the burner size according to FEK 963/2003 and FEK 976/2012 with separate openings for intake and exhaust air.

Installation of a new double wall stainless steel insulated chimney on the exterior of the house and removal of the existing one.

New 2" galvanized steel fuel oil supply pipe from the fence to the boiler room should be installed underground on the same trench that will be used for the natural gas supply pipe. However, the two pipes should have a clear distance between them of no less than 30cm.