



Procurement Hub – Ottawa Office,
Station 9E255, 9th Floor,
200 Kent Street,
Ottawa, Ontario K1A 0E6

Monday June 25, 2018

ADDENDUM NO. 4

Subject: **ITT Invitation to Tender No. F5211-170348**

Title: **Generator Replacement at the Prescott Canadian Coast Guard Base**

Location: **Prescott, Ontario**

Closing Date: **Friday, June 29, 2018 @ 2:00 PM (EDT)**

Dear Sir/Madam:

Further to the above-mentioned Invitation to Tender, this **Addendum no.4** is to advise potential bidders of the following changes and/ or Questions & Answers from Bidders to this tender call to date:

Please delete from all related Invitation to Tender documents:

Closing Date: Wednesday, June 27, 2018 @ 2:00 PM (EDT)

Please insert to all related Invitation to Tender documents:

Closing Date: Friday, June 29, 2018 @ 2:00 PM (EDT)

Please delete:

F5211-170348 SPECIFICATIONS_Generator_CCG Prescott_ON.pdf

Please insert:

REVISED_F5211-170348 SPECIFICATIONS_Generator_CCG Prescott_ON.pdf

QUESTIONS and ANSWERS

1. Question from Bidder:

As a Federal facility, is the base subject the following provincial inspection agencies:

- a. Ontario Electrical Safety Authority (ESA)
- b. Technical Standards & Safety Authority (TSSA)



DFO Answer 01:

Work to be performed in accordance with all required Canadian codes. (Federal and Provincial) In the event of a conflict between any provisions of above authorities having the most stringent provision will apply, although in regards to the replacement of the gas generator at a Federal facility, as per the electrical code exemptions, Federal property/land is exempted from provincial jurisdiction including ESA Licensing Regulation and TSSA.

Still contractors need to follow “Natural gas and propane installation code”, CSA B149.1-15 regarding the gas installations and exhaust of the generators as well as all other related CSA standards including CSA C282 “EMERGENCY ELECTRICAL POWER SUPPLY FOR BUILDINGS”.

2. Question from Bidder:

In Ontario, generator installations are required to be registered with the Ontario Ministry of the Environment for air and noise emissions.

- a. As a Federal facility, are these registration rules followed here?
- b. If so, is the generator currently registered with the Ontario Ministry of the environment for emissions?
- c. Will the contractor be required to submit the applications to create or update the registration for the new generator?
- d. There are fees associated with this registration or update. Will these be a disbursement extra to the contract cost on the bid?

DFO Answer 02:

The Ontario Environmental Protection Act does not apply to the federal government; therefore, the federal government does not require an approval/permit from the ministry for its activities, and the generator is not required to be registered on the EASR.

3. Question from Bidder:

Is this generator considered to be a life safety generator and as such would fall under the requirements of CSA C282-15 Emergency Electrical Power Supply for Buildings? A life safety generator would be one that feeds emergency systems such as exit lighting, exit signs, fire detection and alarm system, etc. This standard has changed the requirements for a generator installation substantially since the current generator was installed.

Examples would be the requirement for a separate natural gas supply with its own shut off valve from the supply that feeds other building systems and the gas supply line is to be fire protected if run inside the building.

DFO Answer 03:

The generator is a Life safety which provides power for emergency lighting, exit and stairwell lighting.



Contractors must follow most updated “Natural gas and propane installation code”, CSA B149.1-15 regarding the gas installations and exhaust of the generators as well as all other related CSA standards including CSA C282 “EMERGENCY ELECTRICAL POWER SUPPLY FOR BUILDINGS”.

4. Question from Bidder:

In reviewing the site, it was observed that some of the operating clearances around generator and electrical equipment in the generator room constrained and may not meet current codes and standards.

DFO Answer 04:

DFO is expecting that new replacement to meet all current requirements, codes and standards.

4.a.Question from Bidder:

Has any review work or study been commissioned to identify works besides the generator replacement that may be triggered by this generator replacement?

DFO Answer 04.a.:

No.

Project is a lump Sum project and total cost includes all required work incorporated with new replacement. Bidders must provide a breakdown and clear explanation of required work/cost in submitted quote including the cost for supply of generator, cost for installation and cost for additional work beyond the replacement!

4.b.Question from Bidder:

From the brief site inspection, it was not possible to identify all potential additional work beyond a simple generator replacement to meet the current codes and standards. How will the costs for such changes (if such changes become necessary necessary) be handled during the project?

DFO Answer 04.b.:

Project is a lump Sum project and total cost includes all required work incorporated with new replacement.

Any rational required changes at any stage of project must be requested with reasons and will be reviewed for approval/refusal during the project!

5. Question from Bidder:

Exhaust stacks are critical generator infrastructure and a focus of inspection by regulatory bodies.

- a. Is pressure test results available for the exhaust stack assembly? The TSSA will want this information to approve the existing stack.



DFO Answer 05.a.:

No.

5.b.Question from Bidder:

Is the exhaust stack routed through the building or directly out through the wall?

DFO Answer 05.b.:

Exhaust is routed through the roof of the building directly above the generator room.

5.c.Question from Bidder:

Are drawings available of the existing exhaust stack routing?

DFO Answer 05.c.:

No drawings are available

5.d.Question from Bidder:

Should stack replacement be considered to be part of this project?

DFO Answer 05.d.:

Preferably No, except that new replacement requires stack replacement as per codes and standards or the new generator is not compatible with existing stack. If bidders are suggesting this option, then all requirements cost and reasons for stack replacement must be specifically noted in submitted quote!

6. Question from Bidder:

Are engineers signed drawings to be provided for this project?

DFO Answer 06:

As noted in project description, providing any required engineering work is part of the scope of work for this project. Winning bidder is responsible to provide required technical and engineering work incorporated with this project.

7. Question from Bidder:

Following the site inspection on May 15, 2018, we noted several impending problems if you want to install a new generator in the same room as the current one:

- Gas outlet pipe: Runs inside the building and is very rusty. It has to be outside, because this would be safer for the people inside the building in the event of a gas loss.



DFO Answer 07:

As per last report the exhaust /ducts was operational while generator was in service. At this moment preference is indoor installation. Outdoor installation can be considered as a second alternative after full review by DFO.

If suggesting outdoor installation, bidders must submit separate quotes for below options:

- Indoor installation: includes the unit price, installation cost and extra work for inspection of existing ducts, exhaust, etc. and providing potential /required work beyond the replacement service/repair.
- Outdoor installation: Includes the unit price, installation cost and extra work for design and installation of new gas line

8. Question from Bidder:

Size of the new generator's cooling air intake and exhaust grilles: Will be inadequate.

DFO Answer 08:

The intakes, exhaust should be inspected adequately by contractor and make sure new unit is working safely and efficiently with the new installation. Any required changes must be considered in the submitted quote.

9. Question from Bidder:

Automatic inverter cabinet: Will become inadequate. Has to be from the same manufacturer as the generator.

DFO Answer 09:

Any required changes must be considered in the submitted quote adequately.

10. Question from Bidder:

Would you agree if we suggested a new generator installed outside on a new concrete slab and to run new electrical cables between this generator and the new automatic inverter cabinet?

DFO Answer 10:

Preference is installation of new generator indoor (existing generator room). New generator must be compatible to existing back-up system to avoid unnecessary expenses. Submitted quote must include all required technical design and arrangements.



11. Question from Bidder:

This would involve removing the outlet pipe and properly plugging the openings. Remove the natural gas line, properly plug the openings, remove the ventilation ducts and properly plug the openings from the inside. Leave the outside grilles. This would free up a room inside the building.

DFO Answer 11:

Submitted quote must include all required technical design and arrangements. Generator room stays at the existing location and size.

12. Question from Bidder:

Everything is supported by electrical calculations under the Canadian Electrical Code and the generator suppliers' calculations, without input from a consulting engineer, to avoid major costs.

DFO Answer 12:

Project is a lump Sum project and final cost includes all required work incorporated with new replacement. Contractor must provide a breakdown and clear explanation of required work/cost related to generator replacement in submitted quote including required engineering work! Any engineering work must be confirmed/sealed by licensed engineer!

13. Question from Bidder:

When you replace generator in the code it is considered a new appliance and must get a comprehensive inspection and TSSA inspection.

In this inspection they will inspect the exhaust system and will require a pressure test of the system, they will need to get a visual on the type of pipe that was used.

If that pipe is none conforming, we will need to replace it all. At this point we don't have that answer.

They will need to take a temperature test on the pipe when the generator is working and if it exceeds 1000F the enclosure will need to be fired rated for it.

It will also need to be welded pipes to eliminate problems with carbon monoxide entering the building and exhaust may need total replacement.

DFO Answer 13:

Federal sites are out of TSSA jurisdiction. Project is a lump Sum project and final cost includes all required work incorporated with new replacement. Bidders must provide a breakdown and clear explanation of required work/cost in submitted quote!



14. Question from Bidder:

The naturel gas line feeding the generator will also need to be as per new appliance code. Of these questions we have answers for, so this issue will need to be addressed and may result in excessive additional cost.

DFO Answer 14:

Installation of generator outside can be an alternative. DFO needs to clearly understand the cost, and requirement for installation outdoor Vs. replacement of exhaust pipe and installation indoor.

15. Question from Bidder:

I would highly suggest installing a generator outside in a self-contained unit, life safety or not this is to be determined by client, where the rental is now or around that area. It could be a diesel unit with a 48 hour tank on the unit or natural gas. This would eliminate unforeseen excessive cost by installing it inside. I have a few questions concerning this project if we go ahead with the indoor installation. Has the exhaust been inspected to meet new appliance code?

DFO Answer 15:

No

16. Question from Bidder:

As the gas line been inspected to meet new code?

DFO Answer 16:

Gas line inspection is part of the scope for this project and needs to be covered as specification illustrated

17. Question from Bidder:

Is the generator used for life safety as per CSA 2-282 or new code?

DFO Answer 17:

The generator is a Life safety which provides power for emergency lighting, exit and stairwell lighting.



18. Question from Bidder:

Is the exhaust and intake air duct the proper sizing?

DFO Answer 18:

The intakes, exhaust should be inspected adequately by winning bidder and make sure new unit is working safely and efficiently. Any required change must be considered in the submitted quote separately.

19. Question from Bidder:

Is the Transfer switch kept or replaced? Generator manufactures highly suggest installing a matching ATS

DFO Answer 19:

If required by related CSA standards.

Suggested non-mandatory supplements/additions must be priced separately in submitted quote.

20. Question from Bidder:

If the room size is not adequate for the new generator what do we do?

DFO Answer 20:

At this moment preference is indoor installation; consequently right size proper generator should be selected from market.

Outdoor installation can be considered as a second alternative.

If suggesting outdoor installation, bidders can submit separate quotes for below options:

- Indoor installation: includes the unit price, installation cost and extra work for inspection of existing ducts, exhaust, etc.
- Outdoor installation: Includes the unit price, installation cost and extra work for design and installation of new gas line, etc.

21. Question from Bidder:

For this project I was hoping that there could be more information on exactly how you want this job to proceed for the following reasons:

Due to the exhaust stack being fairly old there is a better than average chance it will not pass TSSA code requirements therefore it would be best to have it engineered to make sure everything is brought up to code

DFO Answer 21:

Federal sites are out of TSSA jurisdiction. The intakes, exhaust should be inspected adequately by contractor and make sure new unit is working safely and efficiently with the new installation. Any required changes must be considered in the submitted quote.



22. Question from Bidder:

Would you consider having the unit installed outside in the area that the rental unit is placed as this would be a much easier and less costly installation?

DFO Answer 22:

See answer to question 7.

23. Question from Bidder:

Is it possible to have an extension to the closing date in order to receive more instruction?

DFO Answer 23:

Closing date will be extended till Friday June 29, 2018 @ 2pm

24. Question from Bidder:

What are your current power requirements? Single Phase? Confirming Natural Gas ?

DFO Answer 24:

The existing generator (non-operational at the moment) is a natural gas powered generator rated at 600/347 volts, 3 phase, 81.3 amps.

All other terms and conditions remain unchanged.

Yours truly,

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