



TENDER ADDENDUM

**Design, Supply, Installation and Commissioning of Radio Communication System
SS007**

October 3, 2022

ADDENDUM No. 2

The present addendum is raised to answer the questions below.
This shall be read in conjunction with and shall form an integral part of the Tender /
Proposal and Agreement Documents:

Question 1:

Is there a specific format to submit the bids?

Answer 1:

No specific format is required to submit; the only requirement is that the RFP is complete
to avoid being rejected.

Reference RFP section 6.4 for mandatory requirements.

Question 2:

Are new structures allowed to be built in the Park?

Answer 2:

No new towers are to be built in the park.

Please also note that the Fire tower will be decommissioned and is not available for the
new system.

Question 3:

Can existing infrastructure such as buildings and roofs be modified?

Answer 3:

No changes are permitted to the landscape, building envelope or aesthetic of the building.
Mounting requirements for antennas and solar panels to be pre-approved by NCC.

Question 4:

What is the maximum height of the tripod that can extend on Gatineau Park?

Answer 4:

Bidders are to make proposed mounting arrangements for antennas and solar panels in proposals. Common sense approach to heights using existing structures. All mounting arrangements to be pre-approved by NCC.

Question 5:

Are we disposing of the existing equipment?

Answer 5:

Yes. De-install and warehouse for NCC instructions for disposition. Reference to RFP section 6.9. NCC to advise specific equipment to be removed from Fire Tower.

Question 6:

Is your current format analogue or digital and do you want to run in parallel?

Answer 6:

The current system is analogue and the cut over must be done in accordance with a transition plan to be mutually agreed upon with NCC.

Question 7:

Is in building coverage required downtown?

Answer 7:

No; Outdoors coverage with handheld radios at waist level.

Question 8:

Are in vehicle repeaters acceptable?

Answer 8:

Not preferred. Demonstrate need in proposals. Conservation officers are not always within radio coverage range of a vehicle. Conservation Officer normal radio communications procedures and methods of operation shall not be changed. Please note that NCC may be migrating to electric vehicles and power requirements will be a concern.

Question 9:

The timeframe is short for responding to the RFP only 51 days, Is an extension possible?

Answer 9:

An extension may be requested but it may not be granted.
The RFP closing date is necessary to meet NCC's schedules and priorities.

Question 10:

With the Conservation Officers performing CPIC request to the RCMP is there a requirement for encryption?

Answer 10:

Yes, encryption is required.
Separate line items in Price and Delivery forms for DES and AES encryption prices per unit. NCC will make decision based on need. If DES is not available, make clear exception request in proposal.

Question 11:

How many total talk groups right now?

Answer 11:

3 or maybe 4 but could expand to 6 or more.

Question 12:

Can the frequencies be reused?

Answer 12:

Yes, they are available for reuse in the new system. Prefer to retain existing licensed frequencies to be reused for new system

Reference to RFP section 10.

Question 13:

Is there a map that demonstrates current coverage?

Answer 13:

Please see attachment to the current addendum.

Question 14:

Is DMR preferred?

Answer 14:

Yes. Alternative “open standard” digital formats may be proposed such as P25, but proposals shall clearly explain additional value to NCC. Proprietary digital formats are not acceptable. Open standard formats only.

Question 15:

What is the last day to submit questions?

Answer 15:

October 12, 2022.

Question 16:

Do the Chalet radios require display panels?

Answer 16:

No.

Question 17:

Are the bidders responsible for the repairs of the structure or buildings once the equipment has been removed?

Answer 17:

Contractor must repair any holes or damage that arise from the removal of old equipment or caused during the installation of equipment.

All holes shall be properly sealed to avoid air in or out of the holes or other repairs.

Question 18:

Are the solar panel shared with other devices?

Answer 18:

in some cases, CO and smoke detectors are shared but extremely low current draw.

Question 19:

Are propane generators permitted as a source of power for the Chalets and Shelters?

Answer 19:

No.

Question 20:

is 4.9 GHZ spectrum considered certifiable and would it be acceptable for microwave?

Answer 20:

ISED has indicated that 4.9 GHz is not acceptable.

NCC will re-open the discussions one again with ISED and advise Bidders.

Question 21:

How often are the Conservation Officer's away from their vehicle?

Answer 21:

Frequently.

Question 22:

is a list of the NCC vehicles available?

Answer 22:

Yes. A list will be provided as an addendum. *

Question 23:

Can pictures from all the Chalet be provided?

Answer 23:

Yes, pictures will be provided. *

Question 24:

Can a list of buildings with power provided?

Answer 24:

A list will be provided. *

Question 25:

Is there a reason that the template contains 10 sites for Infrastructure details?

Answer 25:

No. The number of tables in the template for entering the site details is purely arbitrary.

Question 26:

For Corporate Management overseeing the project (does it have to be a VP/President, or a manager suffices?).

Answer 26:

Senior manager (GM, Division manager, etc.) is acceptable

Question 27:

Key Production Personnel (what is meant by this? Engineers?)

Answer 27:

Personnel who will be assembling, staging, testing staged equipment testing throughout installation and final system tests. Typically, qualified radio technicians and not solely installation personnel.

Question 28:

On the monitoring aspect, are we expected to monitor connectivity and the RF sites, or just the calls?

Answer 28:

Connectivity and the RF sites are to be monitored.

Question 29:

Solar Panels:

- a. Can you provide us with the dates of when the solar panels were purchased,
- b. The wattage of the solar system at each site

Answer 29:

All solar panels are to be replaced as part of the new system. Please refer to the revised section 13.2 below

Question 30:

Site Work after reward:

- a. If work is required in the park at one of the sites/chalets what would that process be, and would any cost be involved?

Answer 30:

When site work is required within the park boundaries in an area that is closed to public vehicle traffic, the contractor is to arrange access through the Park Operator (currently Demsis), who will provide access and an escort when required. In practical terms this

could be anything from running a technician and his equipment to a site using a skidoo to navigate ski trails or opening gates for the technician to access a site with their own vehicle while following safe travel protocols. The Park Operator is contractually obligated to provide these services, but the Radio Contractor is responsible for any costs associated with this service.

Question 31:

Would it be possible to grant a 4-week extension?

Answer 31:

Yes, the new closing date is now November 23, 2022.

The sections of the RFP mentioned hereafter are to be replaced as follow:

1. RFP Section 5.0: OVERVIEW OF NEW RADIO COMMUNICATIONS SYSTEM REQUIREMENTS

Change NOTE: under section 5.0 to read as follows:

NOTE: No NCC structure, facility or other infrastructure inside Gatineau Park shall be employed for the radio system *other than for the chalets, shelters and other existing buildings and facilities.*

No new infrastructure (towers, poles, buildings, radio site facilities, etc.) for the radio system will be permitted inside the Park.

2. RFP Section 6.16, item 7.

Change item 7. To read as follows:

7. Replace solar panels and batteries as specified in section 13.2 as amended below.

3. RFP section 13.2 Electrical Power

Replace section 13.0 In its entirety with the following:

13.2 Electrical Power

Electrical power to the radio equipment for the chalets and shelters shall be supplied from a solar -battery system.

Bidders shall include prices to replace the existing solar power systems and batteries to meet the reliability and performance requirements for the proposed radio equipment at each chalet/shelter.

The Contractor shall inspect the solar panel and battery system wiring and advise NCC of replacement or repairs that are required to meet industry accepted standards and best practice for the solar panel system.

The Contractor shall provide a cost estimate for the repair or replacement of the wiring for consideration by NCC.

The solar power system shall provide reliable electrical power to the radio equipment 24 hours a day, 365 days a year based on the prevalent worst period (minimum) sunlight conditions throughout the Gatineau region.

The Contractor shall be responsible for ensuring that the solar power system meets all requirements for reliability and autonomy.

Radio communications system Bidders shall specify the following in each proposal for the radio equipment at each chalet/shelter to enable the NCC to assess alternative solar power system supplier prices at the NCC's discretion:

1. Maximum and minimum operating and standby voltage requirements.
2. Peak current at the maximum and minimum voltage.
3. Average current at the maximum and minimum voltage based on a 30-day duty cycle of:
 - a) 0.01% transmit
 - b) 39.99% receive
 - c) 60% standby

Solar panel dimensions shall not exceed 4 square meters (4m²) for all chalets and shelters.

Based on the restricted dimensions specified above, Bidders shall clearly specify the following:

1. Recommended battery capacity (Ampere Hours).
2. Type of battery; e.g. sealed deep cycle lead acid gel, sealed deep cycle lead acid absorbed glass mat, etc.
3. Performance degradation for temperatures below 20°C (graph or chart).
4. Minimum continuous current to maintain a fully charged battery for temperatures of:
 - a) 20°C
 - b) 0°C
 - c) - 20°C
5. Average current over a 30 day period from the Solar panels to the batteries for recharging and for maintaining the batter charge based on average 30 day average sunlight:
 - a) November to April
 - b) May – October

Bidders shall specify the most suitable solar panel mounting arrangements.

Note: The solar panel mounting method shall also take into consideration the need to mount the base station antenna.

4. RFP section 13.4 Antenna Mounting on Chalets & Shelters.

Last paragraph. Delete requirement for structural engineer registered with the Professional Engineers, Ontario (PEO) or the Ordre de ingenieurs du Quebec and replace the last paragraph with the following:

“All proposed antenna mounting configurations and locations on the chalets and shelters or other structures for mounting the antennas shall be pre-approved by NCC.”

Note: The antenna mounting method shall also take into consideration the need to mount the solar panel antennas.

All other terms and conditions remain the same.

Stacy Semé
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* These documents are only available to bidders who attended the mandatory conference.