

*Answers to email dated: 2023-10-11*

Questions. Reference annex A, Statement of Work Solicitation number 202304218

**3.1.1 Installation of Garmin G1000NXi integrated dual flight deck display systems with Garmin GFC 700 digital autopilot, TAWS-A enablement, Synthetic vision, Chartview, and Flightstream 510 IAW STC SA15-76.**

STC SA 15-76 currently does not include the G1000 and is limited to the G950. The STC holder is expecting approval of the G1000 system in the first quarter of 2024. Currently there is no firm pricing for the G1000 equipment from Garmin or the STC integration kits from the STC holder.

1. Will there be an opportunity to revise quoted prices when the STC is approved, and OEM price lists are published?

*Answer:*

*Annex A Statement of Work, 3.0 Scope of Work, 3.1.1 now reads:*

*Installation of Garmin G950NXi integrated dual flight deck display systems with TAWS-A enablement, Synthetic Vision, Chartview, and Flightstream 510 IAW STC SA15-76, latest issue. Installation of a 3-Axis Autopilot System that has a TC approved STC for installation on a DHC6-300.*

2. Does the RCMP have a timeline for when this installation will take place?

*Answer: Start date would be as soon as possible after the contract is awarded with a completion date of no later than March 19<sup>th</sup>, 2024.*

3. Is the flight director option for the digital autopilot required?

*Answer: Yes*

**3.1.2 Installation of Garmin GTX 345R remote mount ADS-B In/Out transponder IAW STC SA15-76.**

4. GTX 345R is not a diversity transponder and will not be compliant with Nav Canada requirements for Class A and B airspace. Should RFQ requirement be amended to GTX 345DR for compliance with Nav Canada requirements?

*Answer: A GTX345R ADS-B Out transponder with diversity is required.*

5. Confirm if dual or single transponder is required?

*Answer: Single transponder is required.*

**3.1.5 Installation of Garmin GWX 75 digital doppler enabled weather radar IAW STC SA15-76.**

6. GWX 75 installation. Are ground clutter suppression and turbulence detection feature enablement's required?

*Answer: The enablement's of ground clutter suppression and turbulence detection are not mandatory requirements, however please provide pricing on the quote for these options and distinguish that they are optional.*

**3.1.15 At the time of installation, the RCMP will determine if removal of the existing M7100 FM is required.**

The G1000 audio system only supports interfaces to three radios, retaining the M7100 will require additional audio expansion panels or audio switching.

*Answer: Regardless of whether the M7100 is removed or retained, there will be a need for*

*audio expansion panels or audio switching to accommodate the following: VHF 1, VHF 2, FM 1, FM 2, AUX FM, Satphone, M7100 (if installed)*

7. Is this option required to be covered in the quote or will it be an over and above once the decision is made?

*Answer: Please provide the cost as optional for the removal of the M7100.*

**3.1.16 Installation of TDFM-9100 multi-band FM radio with 2 tri-band modules, Aux port, and Qty 3 CI295-300 tri-band antennas.**

8. These are bespoke radio's and assuming that the RCMP require this installation to match previous and future installation the TIL project number needs to be included in the RFQ. The manufacturer informs that previous RCMP Tri-band radio was project TDFM9100-P91785NV. Can you confirm this is radio configuration required?

*Answer: For the purpose of quoting, please use the TIL project number identified by the manufacturer TDFM9100-P91785NV.*

9. RFQ has requirement for three CI295-300 tri-band antennas. The TDFM-9100 only has RF outputs for two antennas, confirm requirement for and purpose of third antenna?

*Answer: The purpose of the third CI295-300 antenna is for the Aux Radio Port/Interface (AUX FM).*

The G1000 system has options for two models of AHRS. **GRS 79** and **GRS 7800**.

The GRS 79 (standard option) has the following geographical limitations when operating in sub-polar and polar latitudes:

*When the GRS77 or GRS 79 AHRS option is installed, flight operations with the G950 IFDS are prohibited in the following regions due to unsuitability of the magnetic fields near the Earth's poles:*

- 1. North of 72° North latitude at all longitudes*
- 2. South of 70° South latitude at all longitudes*
- 3. North of 65° North latitude between longitude 75° W and 120° W (Northern Canada)*
- 4. North of 70° North latitude between longitude 70° W and 128° W (Northern Canada)*
- 5. North of 70° North latitude between longitude 85° E and 114° E (Northern Russia)*
- 6. South of 55° South latitude between longitude 120° E and 165° E (Region south of Australia and New Zealand)*

*NOTE The GRS77/79 AHRS is not designed for use in polar navigation and operation outside the approved operating area is prohibited. The GRS77/79 AHRS internally monitors the magnetic field and the G950 IFDS will display a GEO LIMITS message when the magnetic field becomes unsuitable for AHRS operation. When the AHRS can no longer reliably compute heading, heading information will be removed from the HSI.*

*GRS7800 AHRS The G950 IFDS with the GRS7800 AHRS option installed is approved for use in polar navigation. **There are no limitations on the GRS7800 areas of operation.***

10. Does the operator require the GRS 79 or GRS 7800 AHRS?

*Answer: GRS 7800*

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To add the GFC700 Autopilot to the G950/G1000 NXi STC but there is some risk to having it included by the completion date on the RFP.

There are 2 options for this project:

1. Install the system with the autopilot system provisional but not activated until we have the STC revision.
2. Build up and deliver the equipment and STC modification kit this year and carry out the modification once the GFC700 is approved.

*Answer:*

*Annex A Statement of Work, 3.0 Scope of Work, 3.1.1 now reads:*

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*Autopilot System that has a TC approved STC for installation on a DHC6-300.*

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Due to the current non availability of an STC or any pricing for the G1000 system, would the RCMP consider an alternate of a G950NXi system plus a Genesys Aerosystem 3100 digital autopilot both of which do have STC's and pricing available?

*Answer:*

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