

APPENDIX F.1 TO ANNEX F TO PART 4 OF THE BID SOLICITATION

TECHNICAL COMPLIANCE MATRIX

It is highly recommended that the bidder include a copy of this compliance matrix with their bid to ensure that each criteria required is addressed in their submission. For each mandatory technical criterion, the proponent should indicate whether or not the deliverables offered “meets or will meet” or “does not meet” the requested criterion by checking the appropriate box. The bidder should also include how the proposed deliverables meet each criterion by providing specification or experience documentation. When referring to documentation, the proponent should indicate where information can be referenced by specifying the title of the documents, as well as the page number and paragraph, if applicable.

Pilot Submission:

Item	Mandatory technical criteria	Meets or Will Meet	Does Not Meet	Comments /Reference Page #
1.1	Pilot Experience – The Bidder confirms two principal/primary (2) pilots which meet the mandatory experience criteria outlined in 5.2(a) to 5. 2(h) of the Statement of Work (listed below):			
A	Pilot #1 (name):			
a.	Have appropriate license and endorsements for the proposed helicopter they are assigned to			
b.	Minimum 2500 hours as Pilot-in-Command (PIC) rotary wing aircraft			
c.	Minimum 200 hours (PIC) flight time on class			
d.	Minimum 50 hours (PIC) on type in the last twelve (12) months prior to the reporting date at the base of operations			
e.	Minimum of 150 hours (PIC) fire-fighting experience			
f.	Minimum of 500 hours (PIC) vertical reference operations (i.e. bucketing/longlining)			
g.	Minimum of 1000 hours (PIC) flight time in mountainous terrain i.e. within designated mountainous area 1 as per Transport Canada AIM definition of mountainous regions.			
h.	Has successfully completed the Parks Canada Rescue Pilot Testing and Approval Process.			
B	Pilot #2 (name):			
a.	Have appropriate license and endorsements for the proposed helicopter they are assigned to			
b.	Minimum 2500 hours as Pilot-in-Command (PIC) rotary wing aircraft			
c.	Minimum 200 hours (PIC) flight time on class			
d.	Minimum 50 hours (PIC) on type in the last twelve (12) months prior to the reporting date at the base of operations			
e.	Minimum of 150 hours (PIC) fire-fighting experience			
f.	Minimum of 500 hours (PIC) vertical reference operations (i.e. bucketing/longlining)			
g.	Minimum of 1000 hours (PIC) Flight time in mountainous terrain i.e. within designated mountainous area 1 as per Transport Canada AIM definition of mountainous regions			

	(if applicable)			
h.	Has successfully completed the Parks Canada Rescue Pilot Testing and Approval process.			

Item	Mandatory technical criteria	Meets or Will Meet	Does Not Meet	Comments /Reference Page #
1.2	Pilot Competence: The Bidder confirms two (2) primary/principal pilots which meet the mandatory experience criteria outlined in 5.3(a) to 5.3(i) of the Statement of Work (listed below) will be provided: All pilots assigned to this contract must meet the following competence criteria as described in the Helicopter Association of Canada, <i>Pilot Competencies for Helicopter Wildfire Operations</i> (link https://www.h-a-c.ca/Pilot_Competerencies.pdf) and additional mountain rescue competencies.			
A	Pilot #1 (name):			
a.	General Wildfire Operations Knowledge			
b.	Mountain Flying			
c.	External Load			
d.	Aerial Ignition Device and Drip Torching			
e.	Hover Exit			
f.	Confined Area Operations			
g.	Low Visibility Operations			
h.	Class D Fixed Line			
i.	Snow and Glacier Operations			
B	Pilot #2 (name):			
a.	General Wildfire Operations Knowledge			
b.	Mountain Flying			
c.	External Load			
d.	Aerial Ignition Device and Drip Torching			
e.	Hover Exit			
f.	Confined Area Operations			
g.	Low Visibility Operations			
h.	Class D Fixed Line			
i.	Snow and Glacier Operations			

Helicopter Submission:

Item	Mandatory technical criteria	Meets or Will Meet	Does Not Meet	Comments /Reference Page #
1.3.1	Helicopters: The Bidder must identify the proposed helicopter type and call sign and clearly indicate they will meet the mandatory criteria listed in sections 6. Aircraft Requirement of the Statement of Work. a. Make & Model of proposed helicopter b. Registration Number c. Certifications and Documentation Attached			
A	Proposed Helicopter			
a.	Make and Model of the proposed helicopter			
b.	Registration Number			
c.	Certifications and Documentation Attached			

Item	Mandatory technical criteria	Meets or Will Meet	Does Not Meet	Comments /Reference Page #
1.3.2	General: Bidder has listed how each proposed helicopter meets criteria from 6.1(a) to 6.1(g).			
A	Proposed Helicopter			
a.	Class: Intermediate (AS350B2, AS350B3, H125 or Bell 407 or equivalent)			
b.	Seating Capacity: 1 pilot + 5 passengers			
c.	Closed Baggage Compartment Volume: 0.46 m3 (16 ft3) or more			
d.	Fuel Range: 515 km (278 nautical miles) or more			
e.	External Load (Cargo Hook Limit): 1,136kg (2,500 lbs) or more			
f.	Internal Useful Load: 860 kg (1,896 lbs) or more			
g.	Service Ceiling: 14,000 ft (4267 m) or more			

Item	Mandatory technical criteria	Meets or Will Meet	Does Not Meet	Comments /Reference Page #
1.3.3	Aircraft Supplemental Equipment for the proposed Helicopter: Bidder has confirmed how the proposed helicopter meets, or will meet, criteria 6.2 (a) to 6.2 (o):			
A	Proposed Helicopter			
a.	Seating for 5 or more passengers. All seats to have high back support capability with shoulder restraint harnesses			
b.	Two (2) fire-bombing buckets; i.e. Bambi collapsible type, with instant deployment. (180USG / 680l and 240USG / 910l)			
c.	An hour meter activated by the collective			
d.	Equipped for pilot to conduct vertical reference work			
e.	One (1) 15 meter longline with remote electric release load hooks			
f.	One (1) 30 meter longline with remote electric release load hooks			
g.	Two (2) cargo nets with lanyards and swivels.			
h.	One (1) Pilot removable, cargo basket for external transport of hazardous good such as fuels, chainsaws, bear sprays etc.			
i.	Dart extended high (or equivalent for machine) skid gear with bear paws and passenger steps on both left and right side of the aircraft			
j.	One (1) operational, 24-volt heli-torch capable of using AVGAS, Jet A and/or B fuel mixed with a gelling agent			
k.	24-volt DC internal electrical system suitable for <i>Red Dragon</i> and <i>Primo</i> Plastic Sphere Dispenser (PSD) ignitions devices			
l.	Highly visible marking scheme on the main rotor and on the tail rotor			
m.	Medivac stretcher kit;			
n.	Portable refueling pump which operates from aircraft electrical system and spill response kit appropriate for the helicopter.			
o.	Boost HEC Fixed Parts Kit installed on the aircraft in accordance to the Supplemental Instructions for Continued Airworthiness.			

Item	Mandatory technical criteria	Meets or Will Meet	Does Not Meet	Comments /Reference Page #
1.3.4	Communication Equipment: Bidder has confirmed the proposed helicopter meets, or will meet, criteria 6.3 (a) to 6.3 (g)			
A	Proposed Helicopter			
a.	Two (2) VHF/AM radio transmitter-receivers with frequencies of 118 MHz to 135.97 MHz inclusive with 50 KHz spacing with guard feature. The control arrangement will have dual switches, which can be operated independently in both the pilot and co-pilot positions. The co-pilot shall have an operational foot switch for radio transmission or a dash or panel mount ICS/TSX transmit switch.			
b.	Two (2) FM transceivers with a frequency range of 150 to 174 Mhz capable of generating CTCSS tones of 103.5HZ,114.8HZ, 127.3HZ and 141.3HZ. with control head provision for 30 pilot-programmable, pre-set simplex and semi-duplex channels hosting a main and guard feature. Also must be capable of both wideband (25kHz) and narrowband (12.5 kHz) operations as required			
c.	Provision for operational capabilities of both radio and hot-mic intercom, through headset/boom microphones, by both pilot, copilot/front seat passenger			
d.	One (1) intercom, front and four (4) rear seats, with headsets and boom microphones, Davis Clark, Bose or equivalent.			
e.	One (1) Transport Canada approved power supply for cockpit electronics.			
f.	Minimum one (1) programmable portable FM transceiver radio with capability of frequency range and CTCSS tones (as noted above).			
g.	Each aircrew member is to be equipped with a smartphone to facilitate digital communication with Parks Canada personnel.			

Item	Mandatory technical criteria	Meets or Will Meet	Does Not Meet	Comments /Reference Page #
1.3.5	Directional, Safety and Emergency Equipment: Bidder has confirmed the proposed helicopter meets, or will meet, criteria 6.4 (a) to 6.4 (e)			
A	Proposed Helicopter			
a.	One (1) Emergency Locator Transmitter (ELT)			
b.	One (1) Global Positioning System (GPS) accessible by co-pilot position			
c.	One tablet equipped with the Avenza maps application and a QR code reader application, mounted in the cockpit and within reach of the pilot and able to be charged in this position			
d.	Equipped with all safety, communication, navigation and other equipment as required by Transport Canada for operations of the nature of the services			
e.	Automated Flight Following system (AFF), compatible with Latitude Technologies or similar (please specify), providing 2-minute ping locations during the annual operational period.			

Pilot Rotation Schedule

Item	Mandatory technical criteria	Meets or Will Meet	Does Not Meet	Comments /Reference Page #
1.4	Pilot Rotation Schedule The Bidder must submit a pilot rotation schedule that conforms to the following requirements as per criteria 5.7:			
a.	Applicable Canadian Aviation Regulations requirements			
b.	Air Operator Certificate Specification			
c.	Insurance of pilot consistency so as to provide the same complement of pilots throughout each individual operational season			
d.	Principal pilots identified in the bid package must fly a minimum of 75% of contracted time during the first contract year			
e.	Principal pilots identified in subsequent contract years (if different than those identified in the bid package) must fly a minimum of 75% of contract time during subsequent contract years and must possess comparable experience and competencies as those identified in the original bid package			

Safety Record Submission:

Item	Mandatory technical criteria	Meets or Will Meet	Does Not Meet	Comments /Reference Page #
1.5	Safety Record: The Bidder must submit a record including reportable incidents and accidents defined by the Canadian Aviation Daily Occurrence Reporting System (CADORS) requirement encompassing the past five (5) years (July 1, 2019 to June 30, 2024) as per criteria 4.0. To be evaluated further under Point Rated Technical Criteria A. Note: Where a bidder is submitting as a joint venture, the safety record is to list the incidents of the main flight operator.			
1.5.1	The Bidder submitted a safety record for the past five (5) years (July 1, 2019, to June 30, 2024).			