**Part 7: Aircraft and Services - Narrative**

Please complete, save and upload this form following the instructions found in the *Request for Proposal* document.

*This section allows Proposers to provide any relevant narrative to support the data provided in the Aircraft and Services – Aircraft data form. Organisations may include charts, tables, pictures and diagrams in these sections and these may either be embedded in this document or uploaded separately.*

## Aircraft Proposed

*Enter details of each aircraft being proposed in ARENA.*

## Checklist:

* *Have you entered each aircraft you propose in ARENA?*
* *Have you completed all the details of each aircraft being proposed in ARENA*?
* *Have you uploaded required documents and photos for each aircraft in ARENA?*

## Overview

*Provide a brief narrative that gives an overview of the Airtankers and Supervision Aircraft put forward for the Services being proposed. Identify and explain any situations where the proposer considers that the provision of multiple Services by the organisation will offer synergies and benefits.*

<Insert your response here>

## Firebombing Delivery Systems

*Other than the information provided in the ARENA, provide any additional narrative relating to the Firebombing Delivery System(s) (i.e. Tanks and associated systems).*

*Include details of any specific make, model and version numbers where applicable.*

*Include details of any certification, grid or other testing, and history of operational use of this type of system.*

*Include details of IAB approved drop height and drop speed or, if not IAB approved, normal operating drop height and drop speed.*

*Include details of any certification restrictions applying with the Firebombing Delivery System fitted such as; airspeed limitations, the ability to carry passengers, etc.*

*Include details of the required configuration of the Airtanker while dropping such as flap settings and other aerodynamic device settings, gear configuration, etc.*

*Include details of the water carrying capacity for each Firebombing Delivery System and, where appropriate, each possible configuration of the Firebombing Delivery Systems.*

*Include details of how the delivery system is controlled and what controls are available such as coverage levels, split loads and selectable doors.*

*Include details of how, and when, the delivery system can be filled, both on the ground and in flight (eg scooping aircraft).*

*Where appropriate include details of how a controlled flow of the drop is obtained and what levels of control are available.*

*Where appropriate include details of any onboard gel and or foam mixing capabilities, include details of concentrate capacities, compatible foam or gel types, number of loads typically carried before reloading.*

*Where appropriate include details of time, resources and equipment required to reconfigure the aircraft from fire fighting to any other proposed role configuration (eg cargo or passenger carriage etc.)*

<Insert your response here>

## 

## Aircraft Modifications and Performance Enhancement

*Provide details of how the Airtankers and Supervision Aircraft have been modified or optimised to provide the performance required for Aerial Firefighting operations. Include descriptions of airframe modifications, weight reduction strategies and of any performance enhancing devices that may be fitted to the aircraft being proposed.*

<Insert your response here>

## Avionics and Communications

*Other than the information provided in ARENA, provide any additional narrative relating to the avionics and communications equipment to be utilised in the provision of the Services being proposed. These may include, amongst other things, radios, avionics, telephony, public address systems and siren systems.*

*Include narrative on how it is proposed to install ancillary radios so that rapid changeover of radios can be achieved if required. Include detail of any relevant enhanced avionics such as ADSB, TCAS or GPWS, or any other safety enhancement systems. For aircraft proposed for Air Attack Supervision roles provide additional details of equipment used by pilots and agency staff including intercom systems, sirens and radio selectors.*

*Note: Proposers are advised to read and understand the details of "NAFC Standard OPS-020 Avionics and Communications" before responding to this question.*

<Insert your response here>

## Recording Systems

*Provide details of crash resistant Flight Data Recorders, Cockpit Voice Recorders and cockpit environment recorders or similar equipment, for each aircraft proposed.*

<Insert your response here>

## Global Positioning Systems

*Other than the information provided in ARENA, provide details relating to the Global Positioning Systems to be utilised in the Airtankers and Supervision Aircraft being proposed.*

*Include details of how the GPS system will support the requirements of the services being proposed. Where appropriate supply details of any moving map or situational awareness display.*

*Note: Proposers are advised to read and understand the details of "NAFC Standard OPS-013 Aircraft GPS-GNSS" before responding to this question.*

<Insert your response here>

## Tracking System

*Other than the information provided in ARENA, provide any additional narrative relating to the tracking systems to be utilised in the Airtankers and Supervision Aircraft. Where appropriate include details of tracking for refuelling and any other support vehicles being proposed. Include an outline of how the data will be delivered into AFAMS.*

*Note: Event reporting and messaging is covered in following questions.*

*Note: Proposers are advised to read and understand the details of "NAFC Standard OP-014 Tracking, Event Reporting & Messaging" before responding to this question.*

<Insert your response here>

## Flight and Engine Event Reporting System

*Provide a description of the event reporting system being used to report engine start/stop and flight (take-off and landing) events in the Airtankers and Supervision Aircraft being proposed.*

*Note: This question is not about Health and Usage Monitoring (HUMS) or similar aircraft systems. It is about the collection of engine start & stop, take-off & landing, and other flight events times and the reporting them via satellite or cellular modem to NAFC / AFAMS. HUMS is covered in a later question.*

*Include details of the sensors or devices that will be used to trigger engine and flight events.*

*Note: Proposers are advised to read and understand the details of "NAFC Standard OP-014 Tracking, Event Reporting & Messaging" before responding to this question.*

<Insert your response here>

## Firebombing Event Reporting System

*Where appropriate provide a description of the firebombing event reporting system to be utilised in the firebombing Airtankers and Supervision Aircraft being proposed.*

*Note: This question is about the collection of drop start & stop, tank fill, and other firebombing events and the reporting of them via satellite or cellular modem to NAFC / AFAMS*

*Include details of the sensors or devices that will be used to measure firebombing events; specifically detail how start and end of substantive flow is measured.*

*Include details of the sensors or devices that will measure the product volume in the tank and how much is dropped.*

*Where appropriate include details of the sensors or devices that will be used to measure height above ground.*

*Note: Proposers are advised to read and understand the details of "NAFC Standard OP-014 Tracking, Event Reporting & Messaging" before responding to this question.*

## <Insert your response here>

## Messaging System

*Where appropriate provide a description of the messaging system to be utilised in the Airtankers and Supervision Aircraft being proposed.*

*Note: Proposers are advised to read and understand the details of "NAFC Standard OP-014 Tracking, Event Reporting & Messaging" before responding to this question.*

## <Insert your response here>

## Aircraft Trend Monitoring Systems

*Provide the details of any automated engine and flight parameter monitoring and recording system (e.g. ‘HUMS’ type trend monitoring systems).*

*Where an automated system is not used include details on the approach to manual trend monitoring.*

<Insert your response here>

## Seating, Seatbelts and Safety Harnesses

*Provide details of the seating configuration and seatbelt type for pilot and other Flight Crew seats to be fitted in the Airtankers and Supervision Aircraft being proposed.*

*Where aircraft are required to carry passengers provide information relating to the seating and seatbelt type and configuration to be fitted in the aircraft being proposed.*

*Include details of any restrictions on occupying the maximum number of passenger seats due to weight and balance, equipment stowage, long range fuel tanks etc.*

*Note: Proposers are advised to read and understand the details of "NAFC Standard OPS-010 Seating, Seatbelts and Safety Harnesses" before responding to this question.*

<Insert your response here>

**~~Night Visual Flight Rules & Instrument Flight Rules~~**

*~~If proposing Services involving flight under the Night Visual Flight Rules and / or Instrument Flight Rules provide details as to how the required outcomes will be delivered. This may include, amongst other things, any limitations as to when NVFR and IFR flight may be conducted, maintenance of aircrew qualifications and currency for NVFR and IFR flight and any relevant aircraft and organisational capabilities.~~*

*~~Note: All large airtankers and associated supervision aircraft are required to be able to operate IFR~~*

**Night Flight & Instrument Flight Rules**

*If proposing Services involving flight under the Night Visual Flight Rules and / or Instrument Flight Rules, or flight using NVIS or synthetic vision, provide details as to how the required outcomes will be delivered. This may include, amongst other things, any limitations as to when flights may be conducted, maintenance of aircrew qualifications and currency and any relevant aircraft and organisational capabilities.*

*Note: All large airtankers and associated supervision aircraft are required to be able to operate under the IFR.*

<Insert your response here>

## Response and Turnaround Times

*Provide information as to how long it will normally take for the proposed Airtankers and Supervision Aircraft to be ready to become airborne following the receipt of a dispatch notification.*

*Include a breakdown of the sequence of events required before the aircraft is ready to become airborne.*

*Include details of how many minutes it will take for the pilot to get to the aircraft, prepare the aircraft to start, start all engines, and complete all required daily and pre-flight inspections and safety checks for the proposed aircraft, at the proposed base.*

*Include details for each of the following three scenarios: cold start (e.g. first start of the day with aircraft parked with covers on and daily inspection not yet completed), warm start (e.g. aircraft previously prepared for minimum start time) and restart (e.g. aircraft requested to restart immediately after a shutdown).*

*Provide details of any limitations, or external factors, which may affect aircraft response and turnaround times.*

*Where appropriate this information may be provided in tabular form.*

<Insert your response here>

**Passenger Carriage Capability Calculations**

*Detail the Passenger Carrying Capability (PCC) of each passenger carrying aircraft being proposed (eg supervision aircraft and / or multi role aircraft).*

*Clearly set-out the calculations used to determine the Passenger Carrying Capability (PCC) for each aircraft proposed.*

*Include details of any configuration, operation or approval limitations on reaching the maximum number of passengers for each aircraft proposed.*

*Note: Proposers are advised to read and understand the details of “ NAFC Standard PR-003 Definition of passenger carrying capability – firefighting aircraft” before responding to this question.*

<Insert your response here>

**Other Calculations and Analysis**

*Provide any other calculations or analysis which might be considered.*

<Insert your response here>

## Nominated Operational Base

*Provide any additional information relating to the Nominated Operational Base(s) being proposed for each Service. Include details of how the proposed base location or arrangements will support the Services being proposed.*

<Insert your response here>

**Fuelling Facilities**

*Provide details relating to any fuelling facilities being proposed to support the Airtankers and Supervision Aircraft being proposed.*

<Insert your response here>

**Support Vehicles**

*Describe any support vehicles other than Refuellers proposed as part of the proposal, provide details as to how these support vehicles will assist with providing the service.*

<Insert your response here>

## 

## Alternative and Additional Capabilities

*Provide information not provided elsewhere on any alternative and/or additional capabilities offered by the proposer’s organisation. This may include the items listed in the Request For Proposals document Part B, or anything else proposed.*

<Insert your response here>

## Notice Period

*Provide any information regarding conditions relating to the proposed Notice Periods (number of days’ notice to start a Service Period), additional to that given in the Response S8a - Pricing - data form.*

<Insert your response here>

## Partial Availability Services

*If proposing to supply Partial Availability Services provide information regarding partial availability conditions (e.g. commitment / response times) you propose, additional to that given in the Response S8a - Pricing - data form. Demonstrate how these availability conditions enhance the suitability and capability of the proposed Services.*

*Where appropriate some of this information may be provided in tabular form.*

<Insert your response here>

**Availability of Aircraft Outside of Service Period**

*Provide information regarding the projected availability of contracted Airtankers and Supervision Aircraft outside the likely Service Period(s), e.g. for Aerial Firefighting during “shoulder” seasons or year round, for Aerial Firefighting or other emergency operations and activities such as flood or storm relief or for routine training and familiarisation exercises.*

<Insert your response here>

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