# Invitation to Tender, National Large Air Tanker, 2022+

# RESPONSE FORM 2

**Complete this form once per Aircraft**

**Instructions**

Please copy this blank for each Aircraft model that you are tendering.

Complete, save and upload this form to ARENA using the Invitation to Tender document as guidance. **Complete this form once per Aircraft and submit all forms completed.**

Please save the file using the naming convention “Response Form 2 – {Company Name} – {Aircraft Rego}”

NAFC strongly recommends that tenderers read each question carefully to ensure that responses address the question.

Note especially that questions request either **detailed** or **summary** information which should be considered guidance as to the level of information to be provided in your response. Write succinctly and clearly.

* For **detailed** answers, a word limit of 500 words is recommended.
* For **summary** answers, a word limit of 200 words is recommended.

All information provided here is to be read in conjunction with the information you have already provided in ARENA.

When providing answers ensure you consider the context of the question based on the section it resides in.

## 5. AIRCRAFT QUESTIONS

*The questions in the following section relate to the aircraft proposed in your submission. You must provide a response to Section 5 for each aircraft proposed in your submission. For example, if you are proposing a LAT and a Lead Plane then you must provide 2 responses to Section 4, one for each aircraft.*

*NAFC is seeking to understand the unique offerings of individual aircraft. Be sure to response to questions in this section in this context.*

## AIRCRAFT ATTRIBUTES

### *ARENA Aircraft Data*

*Ensure all aircraft-related information entered in ARENA against your profile is complete, up to date and accurate. Refer to the ITT Appendix 3 for guidance on how to do this.*

*Enter all details of the proposed aircraft in ARENA. This includes:*

* *Adding the aircraft to ARENA and populating all associated data fields*
* *Uploading required documents*
* *Uploading photos*

<Confirm you have provided all appropriate information in ARENA>

### *Overview*

*Provide summary information that gives an overview of the Aircraft put forward for the Services being tendered.*

<Insert your response here>

### *Firebombing Delivery Systems*

*To compliment the information provided in ARENA, provide detailed additional narrative relating to the Firebombing Delivery System(s) (i.e., associated systems) for the Aircraft offered.*

* *provide 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.*
* *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.*
* *how the delivery system is controlled and what controls are available such as coverage levels, split loads and selectable doors.*
* *how the delivery system is filled.*
* *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 firefighting to any other proposed role configuration.*

<Insert your response here>

### *Aircraft Modifications and Performance Enhancement*

*Provide details of how the Aircraft has 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 & Communications*

*To complement the information provided in ARENA, describe the avionics and communications equipment to be utilised in the provision of the Services being tendered. These may include radios, avionics, telephony, public address systems and siren systems.*

*Include information as to 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 Supervision Aircraft provide additional details of equipment used by agency staff including intercom systems and radio selectors.*

*Note: Tenderers 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*

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

<Insert your response here>

### *Tracking System*

*To complement the information provided in ARENA, describe the tracking systems to be utilised in the Aircraft. Include details of tracking of support vehicles. Include an outline of how the data will be delivered into AFAMS.*

*Note: Tenderers are advised to read and understand the details of "NAFC Standard OP-005 Tracking, Event Reporting & Messaging" before responding to this question.*

<Insert your response here>

### *Engine and Flight Event Reporting System*

*Describe the event reporting system being used to report engine start/stop and flight events in the aircraft being tendered. Include details of the sensors or devices that will be used to trigger engine and flight events.*

*Note: Tenderers are advised to read and understand the details of "NAFC Standard OP-005 Tracking, Event Reporting & Messaging" before responding to this question.*

<Insert your response here>

### *Firebombing Event Reporting System*

*Describe the firebombing event reporting system to be utilised in the firebombing aircraft being tendered. This includes events such as drop start/stop, tank fill, and other firebombing events transmitted via satellite or cellular modem to NAFC / AFAMS.*

*Include details of:*

* *the sensors or devices that will be used to trigger firebombing events, specifically detail how start and end of substantive flow is measured.*
* *the sensors or devices that will measure the product volume in the tank and how much is dropped.*

*Include information about the sensors or devices that will be used to measure height above ground.*

*Note: Tenderers are advised to read and understand the details of "NAFC Standard OP-005 Tracking, Event Reporting & Messaging" before responding to this question.*

<Insert your response here>

### *Night Visual Flight Rules & Instrument Flight Rules*

*Describe any challenges for the provision of the service under the Night Visual Flight Rules and / or Instrument Flight Rules. This may include 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 tenderer capabilities.*

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

<Insert your response here>

### *Passenger Carriage Capability Calculations*

*For tendered Supervision Aircraft, summarise the legally approved Passenger Carrying Capability (PCC) for each aircraft being tendered and provide any calculations to support your PCC, including any limitations imposed by configuration or operations.*

*Tenderers of LATs may describe any plan for PCC should PCC become allowable under CASA regulations during the Contract Period or leave this response blank as not applicable.*

*Note: Tenderers 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>

### *Aircraft Type Calculations*

*Clearly set-out the calculations used to determine the aircraft Type(s) being tendered. Specifically for firebombing aircraft show the calculation used to determine each aircraft’s water carrying capacity.*

*Note: Tenderers are advised to read and understand the details “NAFC Standard PR-002: Categorisation of Fixed-Wing Aircraft used for Firebombing Operations” before responding to this question.*

<Insert your response here>

### *Alternative and Additional Capabilities*

*Provide information not provided elsewhere on any alternative and/or additional Aircraft capabilities offered by the tenderer’s organisation.*

<Insert your response here>

## AIRCRAFT PERFORMANCE

### *Aircraft Performance Enhancement*

*Provide details of how the tenderer proposes to appropriately optimise the performance of aircraft for Aerial Firefighting operations. Include descriptions of weight reduction strategies and of any performance enhancing devices that may be fitted to the aircraft being tendered.*

<Insert your response here>

### *Continuing Airworthiness Program*

*Provide a detailed description of Continuing Airworthiness Program(s) for proposed aircraft.*

*Note the requirements for a Continuing Airworthiness Program in the Large Airtanker Services Supplementary Requirements section of the Invitation to Tender document.*

<Insert your response here>

### *Aircraft Fuel Capacity and Endurance*

*Clearly set-out the calculations used to determine the aircraft fuel capacities and loads provided in ARENA. Include calculations of fuel burn and endurance under conditions typically encountered during fire operations.*

<Insert your response here>

### *LAT Scenario*

*There is a single large airtanker scenario in the tender response forms that describes a typical large airtanker mission. This scenario described requires that the large airtanker uses specified airports. These scenarios are only to enable a consistent comparison of proposals and are not intended to suggest that any airport is a preferred or required NOB.*

<If tendering LAT, ensure you have completed the questions in the ITT LAT 2022+ Scenario.docx and upload to ARENA with the other completed Response Forms>

### *Response and Turnaround Times*

*Provide information as to how long it will normally take for the tendered 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 a timeline for 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 tendered aircraft, at the tendered 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.*

*This information may be provided in tabular form.*

<Insert your response here>

### *Ferrying of Aircraft in the National Sharing Environment*

*A Ferry Flight is defined as a flight with the sole purpose of relocating a Service during any Service Period to or from a NOB to a TOB* ***outside*** *the liable member’s jurisdiction*

*Provide estimated summary information regarding ferrying between the major locations in the table below. LAT tenderers must include information for both no load and maximum possible load (where it is also possible for suppressant load to be transported as part of the ferry flight):*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Maximum Suppressant Load  (LAT only) | Estimated time from notification to take-off | Estimated flight time | No of Stops required |
| (litres) | (minutes) | (minutes) | (integer) |
| Richmond NSW to Busselton WA | No Load | 0 |  |  |  |
| Maximum Load |  |  |  |  |
| Avalon VIC to Busselton WA | No Load | 0 |  |  |  |
| Maximum Load |  |  |  |  |
| Richmond NSW to Edinburgh SA | No Load | 0 |  |  |  |
| Maximum Load |  |  |  |  |

*Please provide a brief description relating to ferrying the aircraft if the Service if moved around the country, for short or long redeployments within the Service Period. Provide any limitations about landing* *abilities or locations within jurisdictions*

<Insert your response here>

### *Other Calculations or Analysis*

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

<Insert your response here>

## AIRCRAFT CERTIFICATIONS

### *Air Operator’s Certificates (AOCs) and Aerial Work Certificates (AWCs)*

*Confirm that you have all necessary AOC / AWC approvals to operate the proposed Service. This means there are no exceptions, pending approvals or other restrictions.*

*For each aircraft proposed, explicitly state if the aircraft has an AOC / AWC that is current and fully compliant to meet the needs of the Service proposed. Where proposed aircraft are not fully compliant, explicitly state the gaps.*

*Provide a summary of any current AOCs / AWCs applicable to the Services being tendered. Ensure this AOC / AWC covers operation types and aircraft types applicable to the tendered Services.*

*Where you are unable to supply a current AOC / AWC applicable to the tendered Service(s) provide details of your plan and capacity to obtain the necessary AOCs / AWCs for these Services, including details of any previous relevant AOC / AWC.*

*Electronic versions (e.g., PDF files) of relevant AOCs / AWCs must be uploaded to ARENA. Make sure all pages of AOCs / AWCs are included not just the cover page.*

<Insert your response here>

### *Certificates of Airworthiness*

*Provide a summary of any current Certificates of Airworthiness applicable to the aircraft being tendered or details of your plan and capacity to obtain the necessary certification. Actual airworthiness certificates are not required – the name of the issuing authority and certificate reference numbers are sufficient.*

<Insert your response here>

### *Supplemental Type Certificates (STC) and Engineering Approvals*

*Provide a summary of relevant STCs or other engineering approvals applicable to the aircraft being tendered. Only STC details applicable to substantial or significant modifications are required (e.g., substantial airframe shortening/lengthening or other airframe modifications, engine changes, Firebombing Delivery Systems and so on.) Actual STCs are not required – the name of the issuing authority and certificate reference numbers are sufficient.*

<Insert your response here>

### *Specific Approvals*

*Provide a summary of any relevant current approvals or exemptions held that are applicable to the aircraft and Services being tendered or information pertaining to the tenderer’s capacity to obtain the necessary approvals for these Services (for example low flying approvals).*

<Insert your response here>

### *Insurances*

*Demonstrate your organisation's understanding of the insurance requirements for the services tendered and provide your plan as to how you would obtain the required insurance, include details of any relevant current Insurance Certificates applicable to the organisation, aircraft and other resources being tendered.*

*Note: Tenderers are advised to read and understand the Specimen Contract before responding to this question.*

<Insert your response here>

### *Interagency Airtanker Board Approvals*

*Provide details of any US Interagency Airtanker Board (IAB) or equivalent approvals for the proposed airtanker. Upload complete copies of any approvals, supporting documentation or correspondence as part of your submission.*

*Where you are unable to supply details of current approvals provide your plan and capacity to obtain the necessary approvals for these Services, including details of any previous relevant approvals.*

<Insert your response here>