REFERENCE NUMBER AND TITLE:

DID ENG-01 AIRCRAFT TECHNICAL SPECIFICATION DATA

DESCRIPTION/PURPOSE:

The Aircraft Technical Specification Data describes the airframe, propulsion and systems of the proposed ACTC aircraft.

ISSUE DATE:

APPLICABLE TO:

Draft:

RFT Response

All responses

Final:

Contract Signature Date

APPLICATION/INTERRELATIONSHIP:

This Data Item Description contains the format and content instructions for the Aircraft Technical Specification Data.

PREPARATION INSTRUCTIONS

CONTENT

Basic Aircraft Specification

- 1. The Aircraft Technical Specification Data shall specify details of the aircraft type history including:
 - a. the number of aircraft in service (of aircraft of the same baseline variant state);
 - b. the total fleet number of flying hours (of aircraft of the same baseline variant state); and
 - c. any use of the aircraft type in military flying training roles.
- 2. The Tenderer **shall** advise the key operating environment parameters, including minimum and maximum temperatures that the aircraft and aeronautical equipment is capable of operating within.
- 3. The Aircraft Technical Specification Data **shall** as a minimum describe each of the items and systems listed as follows:
 - a. Aircraft structure identifying materials used and construction methods used
 - b. Landing gear
 - c. Cockpit & Cabin fittings and furnishings
 - d. Engine
 - e. Reduction gearbox
 - f. Propeller system
 - g. Health and Usage Monitoring Systems
 - h. Fuel system
 - i. Hydraulic system

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- j. Primary/Secondary flight control systems
- k. Oxygen / Nitrogen system
- I. Ice detection and protection systems
- m. Crew and passenger seating
- n. Environmental control/pressurisation system
- o. Electrical system including description of battery/secondary power sources
- p. Internal and external lighting systems
- q. Communications systems
- r. Navigation systems, including stand-by systems
- s. Identification/transponder systems
- t. Flight management systems
- u. Display systems
- v. Central warning system
- w. Built in test/Central Maintenance system
- x. Automatic flight control system
- y. Voice and data recording system
- z. Cabin facilities and equipment lavatory, galley, wardrobe etc
- aa. Emergency and survival equipment, including smoke protection goggles
- bb. Headset Communications interface
- cc. Role equipment

Avionics System Specific Requirements

- 4. The Tenderer shall describe any graduated levels of use available in the configuration of the EFIS.
- 5. Tenderers **shall** advise GPS database requirements for airspace, navigation aids, airfields, approach and departure and the database updating process; frequency and cost;
- 6. Tenderers **shall** provide details of TAWS Class fitted, TAWS functions, use (if any) of a digital terrain elevation database (DTED), DTED level and database source, and mapping database and source and database updating processes, frequency and cost. The preferred map standard is WGS 84

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Hazardous Materials

7. The Tenderer shall detail all hazardous materials used in the aircraft and aeronautical equipment, including but not limited to any use of asbestos, Polyimide (KAPTON™) and Polyvinyl Chloride (PVC) wiring.

Role Equipment

- 8. Where applicable, the Aircraft Technical Specification Data **shall** include detailed specification for all items of role equipment available for carriage and operation on the proposed aircraft to meet the Crown's requirements as laid down in the SORs.
- 9. The Crown will consider proposals including role specific split-fleets (AWO training and Pilot Training /VIP transport) by converting the internal configuration as required. If proposing such an option, the Tenderer shall describe the methodology to maintain availability within a split-fleet including specifically addressing the time and effort to change configuration between roles.
- 10. The Aircraft Technical Specification Data for each item of role equipment shall include, where applicable:
 - a. Make and model number of the equipment;
 - b. A description of the Role equipment and its function;
 - c. A technical specification describing its performance and rating;
 - d. Photographs and / or diagrams of the Role equipment in both the installed and operational, and uninstalled conditions;
 - e. The location in the aircraft of the installed role equipment;
 - f. The weight of the equipment in pounds or kilograms:
 - g. Details of installation and any specialist tools required for installation;
 - h. Details of its certification and tested operation on the aircraft;
 - i. Details of any limitations related to its carriage and operation;
 - j. Where there are multiple certified and tested options of equipment for a specified role provide a detailed specification on all available options; and
 - k. References to relevant technical and operations publications.
- 11. Cabin Tie down rings the Tenderer **shall** detail the quantity, maximum rating and installation requirements for the aircraft cabin tie down rings.

⁴ Excluding AWO training equipment and consoles which are addressed in DID TRG-02.

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