

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number ST02371LA

This Certificate issued to Nextant Aerospace, LLC
26180 Curtiss Wright Parkway
Richmond Heights, Ohio 44143

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.* *Certification basis is set forth on TCDS A16SW and continuation sheets 3 and 4.

Original Product Type Certificate Number: A16SW

Make: Hawker Beechcraft

Model: 400A

Description of Type Design Change: Replacement of Pratt & Whitney JT15D-5 series engine with Williams International FJ44-3AP engine (TCDS E3GL) with Full Authority Digital Engine Control (FADEC) and associated systems, in accordance with Nextant Aerospace Master Drawing List No.: MDL-NXT-001, Revision IR dated 8/22/2011, or later FAA approved revisions and FAA Approved Airplane Flight Manual Supplement, NXT1-AFMS, Rev IR, dated September 15, 2011 or later FAA approved revisions. Nextant Aerospace, LLC Instructions for Continued Airworthiness document NXT1-ICA, Revision IR, or later FAA accepted revisions must be provided with this STC.

Limitations and Conditions: The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of that aircraft. The approval of this modification applies to the above-noted airplane models only. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

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This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: March 24, 2008

Date reissued:

Date of issuance: September 27, 2011

Date amended:



By direction of the Administrator

(Signature)
Manager, Propulsion Branch
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Supplemental Type Certificate

(Continuation Sheet)

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Limitations and Conditions (continued)

- Nextant Aerospace, LLC, "Installation of Rockwell Collins Pro Line 21," Amended STC ST10959SC, dated September 26, 2011 or later FAA approved revisions is required as part of this alteration.
- The new Vmca and Vmcg values are 94 KIAS and 93 KIAS respectively.
- The new engine minimum rated thrust is 3,031 lb at sea level, flat rated to an ambient temperature of 77°F.
- Approved engine fuels are:

<u>Grade</u>	<u>Specification</u>
Jet A	ASTM-D 1655
Jet A-1	ASTM-D 1655

Certification Basis

The certification basis for this modification is as follows:

The original certification basis for the Hawker Beechcraft Model 400A airplanes identified on TCDS A16SW, Revision 26, dated March 17, 2010:

Part 25 of the Federal Aviation Regulations effective February 1, 1965, as amended by 25-1 through 25-40, plus §§ 25.1335, 25.1351(d), 25.1353(c)(5), and 25.1447 of Amendment 25-41; §§ 25.29, 25.255, and 25.1353(c)(6) of Amendment 25-42; and §§ 25.361(b) and 25.1329(h) of Amendment 25-46. Part 36 of the Federal Aviation Regulations effective December 1, 1969, as amended by 36-1 through 36-17; SFAR 27 effective February 1, 1974, as amended by 27-1 through 27-5; and Special Conditions No. 25-ANM-32 dated February 22, 1990 (High Altitude Operation at 45,000 feet), and Special Conditions No. 25-ANM-33 dated June 18, 1990 (Lightning and Radio Frequency Energy Protection). (See NOTE 12)

Equivalent Safety Items:

- (1) Out-of-trim characteristics § 25.255
 - (2) Pilot compartment view § 25.773(b)(2)
 - (3) Passenger compartment door § 25.813(e)
 - (4) Emergency exit marking §§ 25.811(d)(1) and 25.811(d)(2)
- Application for amended Type Certificate dated February 18, 1988.

Regulation at a later amendments for components and areas affected by the change (Ref. FAA approved Compliance Check List):

Subpart A - General: 25.2(25-99)

Subpart B – Flight: 25.207(25-121), 25.255(25-42)

Subpart C – Structure: 25.571 (25-96)

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Certification Basis (continued)

Subpart D – Design and Construction: 25.603(25-46), 25.605(25-46), 25.611(25-123), 25.613(25-112), 25.625(25-72), 25.832(25-72), 25.863(25-46), 25.869(25-123),

Subpart E – Powerplant: 25.901(25-46), 25.903(25-100), 25.951(25-73), 25.961(25-57), 25.981(25-125), 25.994(25-57), 25.997(25-57), 25.1013(25-72), 25.1019(25-57), 25.1021(25-57), 25.1043(25-42),

25.1045(25-57), 25.1091(25-100), 25.1093(25-72), 25.1103(25-46), 25.1141(25-115), 25.1143(25-57), 25.1163(25-57), 25.1165(25-72), 25.1181(25-115), 25.1183(25-101), 25.1185(25-94), 25.1189(25-57), 25.1195(25-46), 25.1203(25-123), 25.1207(25-46).

Subpart F – Equipment: 25.1301(25-123), 25.1305(25-115), 25.1307(25-72), 25.1309(25-123), 25.1316(25-80), 25.1317(25-122), 25.1321(25-41), 25.1331(25-41), 25.1351(25-72), 25.1353(25-123), 25.1357(25-123), 25.1381(25-72), 25.1431(25-113), 25.1438(25-41),

Subpart G – Operating Limitations and Information: 25.1501(25-42), 25.1521(25-72), 25.1527(25-105), 25.1529(25-54), 25.1543(25-72), 25.1549(25-40), 25.1551(25-72), 25.1557(25-72), 25.1581(25-72), 25.1583(25-105).

Subpart H - Electrical Wiring interconnection Systems (EWIS): 25.1701(25-123), 25.1703(25-123), 25.1705(25-123), 25.1707(25-123), 25.1709(25-123), 25.1711(25-123), 25.1713(25-123), 25.1715(25-123), 25.1717(25-123), 25.1719(25-123), 25.1721(25-123), 25.1723(25-123), 25.1725(25-123), 25.1727(25-123), 25.1729(25-123), 25.1731(25-123), 25.1733(25-123).

14 CFR Part 34 (34-3): 34.11

14 CFR Part 36 (36-28): 36.1--36.7, 36.101--36.105, 36.1501, 36.1581.

The following Nextant Aerospace Continued Airworthiness Supplements are applicable to airplanes modified in accordance with this STC:

- Master Minimum Equipment List document No. MMEL Rev. 8, dated 02/21/2011 or later FAA approved revisions.
- EWIS (Electrical Wiring Interconnection Systems) Inspection Procedure/Report No. NXT1-EA-007 Rev A dated 8/24/11 or later FAA approved revisions.

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