

# Supplemental Type Certificate

*Number* ST03981AT

*This certificate issued to* FedEx Express  
3131 Democrat Road  
Memphis, TN 38118

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.*

*Original Product-- Type Certificate Number:* T00001SE  
*Make:* Boeing  
*Model:* 777F Series

*Description of Type Design Change:*

Installation of a Rockwell Collins Head Up Display Model HGS-6700 with a Kollsman Enhanced Flight Vision System on Boeing 777F in accordance with FedEx Engineering Report No. 11-249, Revision A, dated October 10, 2012, or later FAA-approved revision.

*Limitations and Conditions:*

1. FedEx Aircraft Flight Manual Supplement, Engineering Report No. 11-209, dated October 24, 2012, or later FAA-approved revision, is required and must be carried in the aircraft during all flights.
2. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane.
3. If the holder agrees to permit another person to use this certification to alter the product, the holder must give the other person written evidence of that permission.

(See Continuation Sheet 3 of 3)

*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:* November 17, 2010

*Date reissued:*

*Date of issuance:* October 26, 2012

*Date amended:*



*By direction of the Administrator*

(Signature)

Melvin D. Taylor, Manager  
Atlanta Aircraft Certification Office

(Title)

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplement Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

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### TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number \_\_\_\_\_

to *(Name of transferee)* \_\_\_\_\_

*(Address of transferee)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and ZIP code)*

from *(Name of grantor)* *(Print or type)* \_\_\_\_\_

*(Address of grantor)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and ZIP code)*

Extent of Authority (if licensing agreement): \_\_\_\_\_

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Date of Transfer: \_\_\_\_\_

Signature of grantor (In ink): \_\_\_\_\_

# Supplemental Type Certificate

(Continuation Sheet)

*Number* ST03981AT

*Limitations and Conditions:* (Continued)

4. Instructions for Continued Airworthiness (ICA) for the 777F, FedEx Engineering Report No. 11-154, Revision B, dated July 26, 2012, or later FAA accepted revisions, shall be made available to the operator at the time of installation.
5. Required structural inspections for compliance with 14 CFR 25.571 on the 777F are listed in the Airworthiness Limitations section, Section 15, of the Instructions for Continued Airworthiness, FedEx Engineering Report Number 11-154, Revision B, dated July 26, 2012, or later FAA-approved revisions.
6. Electrical Wiring Interconnection Systems (EWIS) Instructions for Continued Airworthiness, FedEx Engineering Report No. 11-154, Revision B, dated July 26, 2012, Section 3.2, or later FAA-approved revisions, shall be made available to the operator at the time of installation.

*Certification Basis:*

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, for the Boeing 777F series aircraft modified by the installation of a Rockwell Collins Heads up Display and a Kollsman Enhanced Flight Vision System is as follows:

- a. The type certification basis for Boeing Model 777F aircraft is shown on TCDS T0001SE for parts **not changed** or **not affected** by the change.
- b. The certification basis for parts **changed** or **affected** by the change since the reference date of application, November 17, 2010, is based upon part 25 as amended by amendment 25-130 and 14 CFR part 26 as amended by amendment 26-1. Based on 14 CFR §§ 21.115 and 21.101, and FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

**Regulations at the latest amendment 25-0 through 25-130**

§25.21	§25.899(a)(b)	§25.1329(i)	§25.1585(a)	§25.1713(a)(c)
§25.611	§25.981(a)	§25.1353(a)(c)	§25.1703(a)(b)(d)	§25.1715
§25.613	§25.1301	§25.1357(a)(c)(d)	§25.1705(a)(b)	§25.1717
§25.773	§25.1309	§25.1419(a)(b)	§25.1707	§25.1719
§25.853(a)	§25.1317	§25.1431(a)(c)(d)	§25.1709(b)	§25.1721(b)(c)
§25.856(a)	§25.1323(g)	§25.1583(a)(c)(e)	§25.1711	§25.1729
§25.869(a)				

**Regulations at the latest amendment 26-0 through 26-1**

§26.11	§26.47	§26.49
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**Regulations at the amendment level in TCDS T0001SE**

§25.1	§25.581	§25.623	§25.1307(c)	§25.1519
§25.251	§25.601	§25.625	§25.1316	§25.1523
§25.301	§25.603	§25.771(a)(e)	§25.1321(e)	§25.1525
§25.303	§25.605	§25.777(a)(b)(c)	§25.1322(b)(d)	§25.1529
§25.305(a)(b)	§25.607	§25.785(b)(d)(2)(k)	§25.1351(a)	§25.1541
§25.307	§25.609	§25.789(a)	§25.1355(c)	§25.1543(b)
§25.561(a)(c)	§25.619	§25.803(a)	§25.1381	§25.1555(a)
§25.562(c)(5)	§25.621	§25.831(c)	§25.1501	§25.1581(a)
§25.571(a)(b)(d)(e)				

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