

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

*Number* ST02580LA

*This Certificate issued to*

ORBIS International, Inc.  
520 8<sup>th</sup> Ave, 12<sup>th</sup> floor  
New York, NY 10018

*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 set forth on continuation page 3 and 4.*

*Original Product Type Certificate Number:* A22WE

*Make:* The Boeing Company

*Model:* MD-10-30F (SN 46800 Only)

*Description of Type Design Change:* Reconfigure an MD-10-30F to support a modular eye hospital with 48 supernumeraries using SIE Master Drawing List SIE-400-701 Revision IR dated May 25, 2016, or later FAA approved revisions. Instructions for Continued Airworthiness (ICA), Structural Integrity Engineering (SIE) Document Number SIE-400-601 Revision IR, dated May 25, 2016, or later FAA accepted revision must be made available to the operator at the time of installation. SIE EWIS ICA Source Document SIE-400-602 Revision IR, dated April 29, 2016 or later FAA accepted revision must be made available to the operator at the time of installation. FAA Approved Airplane Flight Manual Supplement for the Boeing MD-10-30F for the ORBIS Modular Eye Hospital Configuration, Aircraft Serial Number 46800 for Aircraft Reg. Number N330AU dated February 19, 2016 must be attached to the FAA approved airplane flight manual MDC-97K1130, Revision 22 or later FAA approved revision.

*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 the aircraft. A copy of this STC must be included in the permanent record of the modified aircraft. Ancra STC ST02589LA must be installed in conjunction with this installation. Limitations continued on page 4

*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 3, 2010

*Date reissued:*

*Date of issuance:* June 3, 2016

*Date amended:*

*By direction of the Administrator*



(Signature)

Manager Cabin Safety/Mechanical &  
Environmental Systems Branch

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

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental 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 the Supplemental Type Certificate Number \_\_\_\_\_

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

*(Address of transfer)* \_\_\_\_\_

*(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* ST02580LA

*Date of Issuance:* June 3, 2016

*Certification Basis:*

Based on 14 CFR §§ 21.115 and 21.101 for non-significant changes to type design, the certification basis elected by the STC holder for the modifications and installations to MD-10-30F airplane modified by this change is as follows.

- a. The type certification basis for The Boeing Company Model MD-10-30F airplane as shown in TCDS A22WE for parts **not changed or not affected** by the change.
- b. The certification basis for parts **changed or affected** by this change as of the reference date of application November 3, 2010, is based on part 25 as amended by Amendment 25-130 and 14 CFR Part 26. Based on 14 CFR §§ 21.115 and 21.101, the certification basis for this modification was determined to be:

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

25.365 (e)(f); 25.785 (d)(2)(h)(2)(j)(k); 25.793; 25.803 (a); 25.807 (f) (2)(g)(5); 25.811 (a)-(d)(e)(1); 25.812 (a)(1)(b)(e); 25.815; 25.1557 (a)(c); 25.1561 (a)-(c);

**Regulations at an intermediate amendment**

25.807 (a)-(e) Amendment 25-72; 25.851 (a)(b) Amendment 25-74; 25.1411(a)(d)(e)(f) Amendment 25-79

**Regulations at the amendment level in TCDS A22WE**

25.21 (a); 25.23 (b)(2); 25.25 (a)(b); 25.27 (b)(c); 25.29; 25.301; 25.303; 25.305; 25.307(a); 25.365(a)(b)(c)(d)(g); 25.561; 25.571 (a)(b) ; 25.601; 25.603(a)-(c); 25.605; 25.607; 25.609; 25.611; 25.613; 25.619; 25.623; 25.625; 25.787 (a)(b)(c); 25.789(a)(b); 25.791(a)(b)(e); 25.813 (a)(b); 25.817; 25.831 (a); 25.841(a); 25.853(a)(b)(b-2)(b-3); 25.855(a)(b)(1)(2) (e)(1)(2)(3) amendment 25-15 lower cargo compartment; 25.855 (a) (b)(d)(e)(1)(2)(3)(f) (g)(h)(1)(2)(i) amendment 25-72 main deck cargo compartment; 25.857 (c)(3)(4)(e)(2)-(5); 25.858; 25.1301; 25.1307 (c); 25.1309(a)-(f); 25.1351(a)(1)(2); 25.1353(a)(b); 25.1357(a); 25.1359(d); 25.1363(b); 25.1421; 25.1431(a)-(c); 25.1439; 25.1441; 25.1443 (c)(1)(2)(e); 25.1447(a)-(c); 25.1449; 25.1453; 25.1501; 25.1519; 25.1529; 25.1541; 25.1581(a)(1)(2)(b)(d); 25.1585(a)(4)

**14 CFR Part 26 regulations**

Based on 14 CFR § 21.101(g), applicable provisions of 14 CFR part 26 are included in the certification basis. For any future 14 CFR part 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the amendment date of this STC, compliance has been found for the following regulations 14 CFR § 26.11(c) (Amdt 26-0). 26.47 (c).

Certification Basis continued on Page 4

# Supplemental Type Certificate

(Continuation Sheet)

*Number* ST02580LA

*Date of Issuance:* June 3, 2016

*Certification Basis Continued:*

Exemption from 14 CFR Part 25

Exemption No. 10744 was granted April 9, 2013.

Exemption from §§25.807(f)(2)(g)(5) and 25.857(e)(3) to allow the provisions for the carriage of supernumeraries, but limits the supernumeraries' Class E cargo compartment access to fighting in-flight fires in the cargo compartment. The total occupancy of the airplane is limited to two (2) flight crew, one (1) flight engineer seat, and two (2) observers located in the cockpit, and up to forty eight (48) supernumeraries in the supernumerary area.

*Limitations and Conditions (continued):*

You cannot use descriptive data about this design change to duplicate other products. This approval is limited to only the installation made in The Boeing Company Model MD-10-30F Serial No.46800. This STC does not permit manufacturing of parts for multiple installations.

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