

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

*Number* ST00221BO

*This Certificate issued to* BAE SYSTEMS Information and Electronic Systems Integration Inc.  
65 Spit Brook Road  
Nashua, NH 03061

*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 :* A1SO  
*Make :* Lockheed Martin Corporation  
*Model :* 382G

*Description of Type Design Change:*

Installation of a BAE Systems Infrared Countermeasures Set in accordance with BAE Master Document List 94117-8458635 Revision B, dated January 25, 2012, or later FAA approved revision.

*Limitations and Conditions:*

1. Operation must be in accordance with BAE Systems Aircraft Flight Manual Supplement (AFMS) as follows:
  - a) For Countermeasure Ship Set 8350550G12: Document Number 20568-FMS-21, Revision IR, dated January 27, 2012, or later FAA approved revision.
  - b) For Countermeasure Ship Set 8350550G6: Document Number 20568-FMS-01, Revision A, dated May 07, 2010, or later FAA approved revision.

The AFMS must be carried in the aircraft during all flights.

(Limitations and Conditions continued on Page 3 of 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:* October 6, 2004

*Date reissued:*

*Date of issuance:* October 28, 2005

*Date amended:* May 7, 2010, August 30, 2010,  
January 27, 2012, March 19, 2012



*By direction of the Administrator*

\_\_\_\_\_  
(Signature)

Robert G. Mann  
Manager  
Boston Aircraft Certification Office

\_\_\_\_\_  
(Title)

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# Supplemental Type Certificate

(Continuation Sheet)

*Number* ST00221BO

Effective March 19, 2012

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of the 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 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 & street*)

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

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

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

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# Supplemental Type Certificate

(Continuation Sheet)

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*Limitations and Conditions:* (continued from Page 1 of 4)

2. Maintenance must be in accordance with BAE Systems Instructions for Continued Airworthiness (ICA) as follows:
  - a) For Countermeasure Ship Set 8350550G12: Document Number 20568-ICA-21, Revision A, dated January 21, 2012, or later FAA accepted revision.
  - b) For Countermeasure Ship Set 8350550G6: Document Number 20568-ICA-01, Revision B, dated March 29, 2010, or later FAA accepted revision.

The ICA must be made available to the operator at the time of installation.

3. Electrical Wiring Interconnection Systems (EWIS) Maintenance must be in accordance with BAE Systems Instructions for Continued Airworthiness (ICA) Document Number 94117-A67561, Revision A, dated August 26, 2010, or later FAA approved revision.

The EWIS ICA must be made available to the operator at the time of installation.

4. FAA certification of this installation was limited to the evaluation of the electronic countermeasure equipment's effects on the safe operation of the aircraft, and does not connote FAA endorsement of the effectiveness of the equipment in countering a MANPADS threat. In addition, the FAA has not evaluated the safety of the IR laser for use on the ground or in the air. Operation of the IR laser, to include appropriate laser safety training for flight crew and maintenance personnel, should be in accordance with the intent of American National Standards Institute (ANSI) Standards Z136.1, Safe Use of Lasers, and Z136.6, Use of Lasers Outdoor. The IR jam deflector door was not evaluated by the FAA for its ability to protect the IR jam head from foreign object damage.
5. This STC is for government use only.
6. Compatibility of this design with previously approved modifications must be determined by the installer.

*Certification Basis:*

Based on 14 CFR § 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Lockheed 382G aircraft with BAE Systems Infrared Countermeasures Set installed is as follows (the change is determined to be **not significant**):

- a. The type certification basis for Lockheed 382G aircraft is shown on TCDS A1SO for parts **not changed or not affected** by the change.
- b. The certification for parts **changed or affected** by the change, as of the March 07, 2011 amendment application date corresponding to the January 27, 2012 amendment date of this STC, is based upon part 25 as amended by Amendment 25-132 with:

**14 CFR Regulations at the latest amendment level 25-0 through 25-132**

25.29, 25.143, 25.251, 25.301-307, 25.365, 25.561, 25.601-609, 25.613, 25.625, 25.853, 25.869, 25.1351, 25.1381, 25.1431, 25.1501, 25.1529, 25.1581, 25.1585, 25.1713, Appendix H25.1-H25.5

**14 CFR Regulations at an intermediate amendment level (amendment level between TCDS A1SO and the latest amendment level 25-0 through 25-132)**

25.143 (25-108), 25.177 (25-108), 25.571 (25-96), 25.611 (25-23), 25.773 (25-108), 25.1301 (25-0), 25.1309 (25-41), 25.1322 (25-38), 25.1353 (25-113), 25.1357 (25-0), 25.1583 (25-105)

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

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**14 CFR Regulations at the amendment level in TCDS A1SO**

None

- c. 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 August 30, 2010 amendment date of this STC, compliance has been found for 14 CFR § 26.11 (Amdt. No. 26-0) and for 14 CFR § 26.47 (Amdt. No. 26-1).

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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