

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

Number **ST01646NY**

This certificate issued to

Field Aviation East, Ltd.
2450 Derry Road East, Hangar 2
Mississauga, Ontario
L5S 1B2 Canada

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: A13NM

Make: Bombardier

Model: DHC-8-100, -200, and -300 Series

Description of Type Design Change:

Configuration A - EFIS Interface, Enhanced Ground Proximity Warning System (EGPWS) Installation, (EGPWC complete with Internal GPS Sensor): Installation of Honeywell MK VIII EGPWS in accordance with DDL-1046 Rev IR or later Transport Canada approved revision.

Configuration B - Honeywell Radar Display Interface, EGPWS Installation, Provisions Only (EGPWC complete with Internal GPS Sensor): Installation of Honeywell MK VIII EGPWS in accordance with DDL-1046 Rev IR or later Transport Canada approved revision.

Configuration C - Aircraft with EFIS or Radar Display Interfaces, Retention of Honeywell / Sundstrand MK II GPWS equipment using EGPWS Installation Provisions: Installation of Honeywell / Sundstrand MK II GPWS in accordance with DDL-1046 Rev A or later Transport Canada approved revision.

Configuration D - Honeywell Radar Display Interface, EGPWS Installation, Provisions Only (EGPWC without Internal GPS Sensor): Installation of Honeywell MK VIII EGPWS in accordance with DDL-1046 Rev B or later Transport Canada approved revision.

(See Continuation Sheet 2 of 5)

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: January 30, 2003

Date reissued:

Date of issuance: March 21, 2003

Date amended: March 01, 2006



By direction of the Administrator

(Signature)

Anthony Socias
Manager
New York 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.

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Date Amended: March 01, 2006

Description of Type Design Change (Continued):

Configuration E - Honeywell Radar Display Interface, EGPWS Installation, (EGPWC without Internal GPS Sensor):

Installation of Honeywell MK VIII EGPWS in accordance with DDL-1046 Rev B or later Transport Canada approved revision.

Configuration F - Honeywell Radar Display Interface, EGPWS Installation, (EGPWC complete with Internal GPS Sensor):

Installation of Honeywell MK VIII EGPWS in accordance with DDL-1046 Rev X or later Transport Canada approved revision.

Configuration G - Bendix-King Radar Display Interface, EGPWS Installation, (EGPWC complete with Internal GPS Sensor):

Installation of Honeywell MK VIII EGPWS in accordance with DDL-1046 Rev H or later Transport Canada approved revision.

Configuration H - EFIS Display Interface, EGPWS Installation, (EGPWC without Internal GPS Sensor):

Installation of Honeywell MK VIII EGPWS in accordance with DDL-1046 Rev CC or later Transport Canada approved revision.

Limitations and Conditions:

Configuration A

1. Maintenance must be performed in accordance with Field Aviation East, Ltd. (FAEL) Maintenance Manual Supplement MMS 20010 Rev 0 or later Transport Canada accepted revision. (Lamp Format 1)
2. Maintenance must be performed in accordance with Field Aviation East, Ltd. (FAEL) Maintenance Manual Supplement MMS 20097 Rev 1 or later Transport Canada accepted revision. (Lamp Format 2)
3. Honeywell Symbol Generator's, Part Number 7004544 - 314 and EFIS Controller's, Part Number 7005819 - 813 must be installed as a prerequisite to the installation of EGPWS.
4. The Steep Approach option is only available for use on those aircraft previously equipped with the de Havilland GPWS Steep Approach capability.

DHC-8-100, 200, 300 Series

5. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20015 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)
6. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20067 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-8-100, 200 Series with Steep Approach Option

7. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20016 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)
8. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20068 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-8-300 Series with Steep Approach Option

9. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20017 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)
10. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20069 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-100, 200, 300 Series, "Optional," Retrofit Installation of Upgraded Honeywell Symbol Generators and Display Controllers

11. Maintenance must be performed in accordance with the latest revision of the Bombardier / de Havilland Maintenance Manual chapters designated 34-28-00.

Configuration B

12. Honeywell Primus 660 or Primus 800 Weather Radar Indicators must be installed as a prerequisite to the installation of the EGPWS.
13. The Steep Approach option is only available for use on those aircraft previously equipped with the de Havilland GPWS Steep Approach capability.

(See Continuation Sheet 3 of 5)

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Date Amended: March 01, 2006

Limitations and Conditions (Continued):

Configuration C

14. The de Havilland Flight Manual Supplement No. 2 (Honeywell / Sunstrand MK II GPWS) included in the basic Flight Manual or later Transport Canada approved revision is required for the Honeywell MK II GPWS installation.
15. Maintenance must be performed in accordance with FAEL Maintenance Manual Supplement MMS 20012 Rev 0 or later Transport Canada accepted revision.

Configuration D

16. Universal Avionics Systems Corporation, UNS-1C Flight Management System installation by Field Aviation or by Bombardier factory fit is a prerequisite to the installation of EGPWS.
17. Honeywell Primus 660 or Primus 800 Weather Radar Indicators must be installed prior to the installation of the EGPWS.
18. The Steep Approach option is only available for use on those aircraft previously equipped with the de Havilland GPWS Steep Approach capability.

Configuration E

19. Maintenance must be performed in accordance with FAEL Maintenance Manual Supplement MMS 20010 Rev 0 or later Transport Canada accepted revision. (Lamp Format 1)
20. Maintenance must be performed in accordance with FAEL Maintenance Manual Supplement MMS 20097 Rev 1 or later Transport Canada accepted revision. (Lamp Format 2)
21. Universal Avionics Systems Corporation, UNS-1C Flight Management System installation by Field Aviation or by Bombardier factory fit is a prerequisite to the installation of EGPWS.
22. Honeywell Primus 660 or Primus 800 Weather Radar Indicators must be installed prior to the installation of the EGPWS.
23. The Steep Approach option is only available for use on those aircraft previously equipped with the de Havilland GPWS Steep Approach capability.

DHC-8-100, 200, 300 Series

24. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20018 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)
25. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20060 Rev A or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-8-100, 200 Series with Steep Approach Option

26. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20019 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)
27. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20065 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-8-300 Series with Steep Approach Option

28. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20020 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)
29. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20066 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

Configuration F

30. Maintenance must be performed in accordance with FAEL Maintenance Manual Supplement MMS 20010 Rev 0 or later Transport Canada accepted revision. (Lamp Format 1)
31. Maintenance must be performed in accordance with FAEL Maintenance Manual Supplement MMS 20097 Rev 1 or later Transport Canada accepted revision. (Lamp Format 2)
32. Honeywell Primus 660 or Primus 800 Weather Radar Indicators must be installed prior to the installation of the EGPWS.

(See Continuation Sheet 4 of 5)

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Date Amended: March 01, 2006

Limitations and Conditions (Continued):

33. The Steep Approach option is only available for use on those aircraft previously equipped with the de Havilland GPWS Steep Approach capability.

DHC-8-100, 200, 300 Series

34. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20018 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)

35. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20060 Rev A or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation.. (Lamp Format 2)

DHC-8-100, 200 Series with Steep Approach Option

36. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20019 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)

37. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20065 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-8-300 Series with Steep Approach Option

38. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20020 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)

39. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20066 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

Configuration G

40. Maintenance must be performed in accordance with FAEL Maintenance Manual Supplement MMS 20058 Rev 0 or later Transport Canada accepted revision. (Lamp Format 1)

41. Maintenance must be performed in accordance with FAEL Maintenance Manual Supplement MMS 20103 Rev 0 or later Transport Canada accepted revision. (Lamp Format 2)

42. The installation of Bendix-King RDS-86 System Radar Indicator is a prerequisite to the installation of the EGPWS.

43. The Steep Approach option is only available for use on those aircraft previously equipped with the de Havilland GPWS Steep Approach capability.

DHC-8-100, 200, 300 Series

44. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20018 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)

45. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20060 Rev A or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-8-100, 200 Series with Steep Approach Option

46. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20019 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)

47. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20065 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-8-300 Series with Steep Approach Option

48. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20020 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)

49. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20066 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

(See Continuation Sheet 4 of 5)

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Date Amended: March 01, 2006

Limitations and Conditions (Continued):

Configuration H

50. Maintenance must be performed in accordance with FAEL Maintenance Manual Supplement MMS 20084 Rev B or later Transport Canada accepted revision. (Lamp Format 1)
51. Maintenance must be performed in accordance with FAEL Maintenance Manual Supplement MMS 20104 Rev 0 or later Transport Canada accepted revision. (Lamp Format 2)
52. Universal Avionics Systems Corporation, UNS-1C or UNS-1F Flight Management System installation by Field Aviation or by Bombardier factory fit is a prerequisite to the installation of EGPWS.
53. Honeywell Symbol Generator's, Part Number 7004544 - 314 and EFIS Controller's, Part Number 7005819 - 813 must be installed as a prerequisite to the installation of EGPWS.
54. The Steep Approach option is only available for use on those aircraft previously equipped with the de Havilland GPWS Steep Approach capability.

DHC-8-100, 200, 300 Series

55. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20015 Rev 3 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)
56. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20067 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-8-100, 200 Series with Steep Approach Option

57. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20016 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)
58. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20068 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-8-300 Series with Steep Approach Option

59. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20017 Rev 1 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 1)
60. Transport Canada approved FAEL Flight Manual Supplement No. FMS 20069 Rev 0 or later Transport Canada approved revision is required for the Honeywell MK VIII EGPWS installation. (Lamp Format 2)

DHC-100, 200, 300 Series, "Optional," Retrofit Installation of Upgrade Honeywell Symbol Generators and Display Controllers

61. Installation of Honeywell Symbol Generator's, Part Number 7004544-314 and EFIS Controller's, Part Number 7005819-813 must be performed in accordance with DDL-1046 Rev D or later Transport Canada approved revision.

Maintenance for Continuing Airworthiness

62. Maintenance must be performed in accordance with the latest revision of the Bombardier / de Havilland Maintenance Manual chapters 34-28-00.
63. 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.
64. Compatibility of this design change with previously approved modifications must be determined by the installer.

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