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24 August 2001

CAA EMERGENCY AIRWORTHINESS DIRECTIVE (Final Version 2) BAC/SNIAS CONCORDE TYPE 1 VARIANT 102 AIRCRAFT TYRE FAILURE, FUEL TANK PERFORATION

BACKGROUND

Subsequent to the accident to Concorde F-BTSC on 25 July 2000, during which a tyre burst led to the rupture of No 5 fuel tank causing a fuel leak and a sustained fire under the aircraft, a design review was conducted resulting in modifications being defined to provide protection and prevent a tyre failure resulting in a catastrophic event.

APPLICABILITY

Applicable to Concorde Type 1 Variant 102 aircraft.

COMPLIANCE

Compliance is required before further flight from the effective date of this Directive which is 28 August 2001.

REQUIREMENT

The following modifications/revisions must be embodied on the aircraft, in the MMEL/MEL and in the Flight Manual:

Modification 1905 (Service Bulletin SST n° 57-078, 57-080 and 57-082) : Wings - Introduce liners within fuel tanks 1, 4, 5, 6, 7 and 8 (T/R 365).

Modification 1909 (Service Bulletin SST n° 32-107) : Landing gear - Reinforce main landing gear well electrical bundles.

Modification 1915 : AFM procedure to inhibit brake fan supply during critical flight phases (T/R 355 and 364), and MMEL revision dated 1 July 2001 deleting dispatch with the tyre under inflation detection system inoperative (item 01-32-02-7).

Modification 1917 (Service Bulletin SST n° 32-109) : Main landing gear and brakes - Installation of Michelin NZG tyre and modified antiskid computer (T/R 360).

Modification 1921 (Service Bulletin SST n° 32-110) : Landing gear - MLG front water deflector - Modify profile and remove the retention cables (for aircraft with modification 1869 or post Service Bulletin SST n° 32-103).

Revised Flight Manual limitation prohibiting use of volatile fuels (JP4, Russian fuels) (T/R 358,359, 361 and 363).

Revised Flight Manual for tyre deflation detection warning drill (T/R 355).

continued overleaf

REF. PUBLICATIONS

AFM Type 1 Version 102 Temporary Revisions 355, 358, 359, 360, 361, 362, 363, 364 and 365.

Master Minimum Equipment List Item 01-32-02-07.

Dispatch Deviation Procedure Item 02-32-02-32.7

Service Bulletin SST n° 32-107 initial revision or any approved subsequent revision.

Service Bulletin SST n° 32-109 initial revision or any approved subsequent revision.

Service Bulletin SST n° 32-110 initial revision or any approved subsequent revision.

Service Bulletin SST n° 57-078 initial revision or any approved subsequent revision.

Service Bulletin SST n° 57-080 initial revision or any approved subsequent revision.

Service Bulletin SST n° 57-082 initial revision or any approved subsequent revision.

These Service Bulletins are applicable to Concorde Type 1 Variants 101 and 102.

J McKENNA

Manager, Applications and Certification Section

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