
AIRWORTHINESS DIRECTIVE

On the effective date specified below, and for the reasons set out in the background section, the CASA delegate whose signature appears below revokes Airworthiness Directive (AD) AD/G1159/45 and issues the following AD under subregulation 39.001(1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Gulfstream (Grumman) G1159 and G-IV Series Aeroplanes

AD/G1159/45
Amdt 1

Cockpit Flight Panel Displays

7/2006
DM

Applicability: Model GIV-X series aeroplanes, serial numbers (S/N) 4001 and subsequent; and Gulfstream Model GV-SP series aeroplanes, S/N 5001 and subsequent; on which Gulfstream Modification ASC-904 or production equivalent has been incorporated.

Requirement: Revise the Limitations Section of the Gulfstream G350, G450, G500 and G550 Aircraft Flight Manuals (AFM) by including the applicable revision listed in Table 1 or Table 2 of this Directive.

Any further revisions to the AFM must contain the identical procedures in the Limitations Section of the AFM revisions as required by this Directive.

Table 1

Aeroplane Models	Applicable Gulfstream AFM
GIV-X	GAC-AC-G350-OPS-0001 Revision 6, dated 24 January 2006
GIV-X	GAC-AC-G450-OPS-0001 Revision 7, dated 24 January 2006
GV-SP	GAC-AC-G500-OPS-0001 Revision 13, dated 24 January 2006
GV-SP	GAC-AC-G550-OPS-0001 Revision 15, dated 24 January 2006

Gulfstream (Grumman) G1159 and G-IV Series Aeroplanes

AD/G1159/45 Amdt 1 (continued)

Table 2

Aeroplane Models	Applicable Gulfstream AFM
GIV-X	GAC-AC-JAA-G350-OPS-0001 Revision 3, dated 25 January 2006
GIV-X	GAC-AC-JAA-G450-OPS-0001 Revision 3, dated 25 January 2006
GV-SP	GAC-AC-JAA-G500-OPS-0001 Revision 3, dated 25 January 2006
GV-SP	GAC-AC-JAA-G550-OPS-0001 Revision 5, dated 25 January 2006

Note: FAA AD 2006-04-13 R1 Amdt 39-14560 refers.

Compliance: Within 10 days after the effective date of this Directive.

This Amendment becomes effective on 8 May 2006.

Background: The United States Federal Aviation Administration has received a report indicating that all four of the cockpit flight panel display units simultaneously went blank during flight on a Gulfstream Model GV-SP aeroplane. The displays did not recover until the flightcrew pulled circuit breakers associated with the displays; subsequently, three of the four displays returned to normal. Initial investigation revealed discrepancies with the reversion logic of the advanced graphic modules. Similar display failures occurred during ground test operations. Such conditions, if not corrected, could result in a reduction of the flightcrew's situational awareness and possible loss of control of the aeroplane.

This Directive requires the revision of the Limitations section of the AFM by incorporating new procedures to follow in the event that the cockpit displays go blank or malfunction. The amendment of AFM is an interim measure and further rulemaking to correct the discrepancy is anticipated.

This revision accepts the information contained in the Joint Aviation Authority (JAA) Gulfstream AFM revisions as an alternative means of compliance.



James Coyne
Delegate of the Civil Aviation Safety Authority

4 May 2006