

---

## AIRWORTHINESS DIRECTIVE

---

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (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/G1159/44****Adel Wiggins Floor Heater Pad System****11/2005  
DM**

Applicability: Gulfstream Aerospace Corporation model/series aeroplanes as follows:

Model/Series	Serial Numbers
G-IV	All
GIV-X	4001 through 4023 inclusive
GV	All
GV-SP	5001 through 5075 inclusive

- Requirement:
1. Perform an inspection to determine if an Adel Wiggins floor heater pad system is installed. A review of aeroplane maintenance records is acceptable in lieu of this inspection if the presence of Adel Wiggins floor heater pads can be conclusively determined from that review.
  2. If an Adel Wiggins floor heater pad system is found during the Requirement 1 inspection/determination - deactivate the Adel Wiggins floor heater pad system in accordance with the Accomplishment Instructions of the applicable Alert Customer Bulletin (ACB) identified below, unless Requirement 3 applies.

Model/Series	ACB, including Gulfstream drawing 1159SB50018	Date
G-IV	G-IV ACB 33	13 June 2005
GV	GV ACB 22	13 June 2005
G-IV (G300)	G300 ACB 33	13 June 2005
GIV-X (G350)	G350 ACB 2	13 June 2005
G-IV (G400)	G400 ACB 33	13 June 2005
GIV-X (G450)	G450 ACB 2	13 June 2005
GV-SP (G500)	G500 ACB 3	13 June 2005
GV-SP (G550)	G550 ACB 3	13 June 2005

3. For any aeroplane that is found to have an Adel Wiggins floor heater pad system installed but is not listed in the effectivity block of Gulfstream Drawing 1159SB50018, deactivate the Adel Wiggins floor heater pad system in accordance with a method approved by the Manager, Atlanta Aircraft Certification Office (ACO), FAA.

## Gulfstream (Grumman) G1159 and G-IV Series Aeroplanes

AD/G1159/44 (continued)

*Note 1: For details of deactivation method approved by the Atlanta FAA ACO contact Gulfstream Customer Support on +1 912-965-4178 for assistance.*

*Note 2: FAA AD 2005-16-14 Amdt 39-14220 refers.*

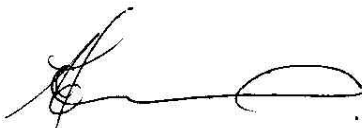
**Compliance:** For Requirements 1, 2 and 3 - Within 25 flight hours or 30 days after the effective date of this Directive, whichever occurs first.

This Airworthiness Directive becomes effective on 2 September 2005.

**Background:** The United States Federal aviation Administration has received a report of an incident in which an Adel Wiggins floor heater pad system short-circuited on a Gulfstream GV-SP series aeroplane. The short-circuit was discovered after an odour of burning was detected emanating from the floor of the cabin. The short-circuit resulted in localized damage to the floorboard and carpet. No circuit breakers tripped as a result of the short-circuiting. This condition, if not corrected, could result in a fire in the aeroplane cabin.

Adel Wiggins floor heater pad systems may also be installed on all Gulfstream Model G-IV and G-V series aeroplanes and certain Gulfstream Model GIV-X series aeroplanes. Therefore, those models may be subject to the unsafe condition revealed on Model GV-SP series aeroplanes.

This Directive requires a one-time inspection to determine if an Adel Wiggins floor heater pad system is installed and deactivation of the floor heater pad system if it is installed.



Charles Lenarcic  
Delegate of the Civil Aviation Safety Authority

29 August 2005