

virgin atlantic A340-600 <i>Flight Crew Operating Manual</i>	IRREGULARITIES FMGC RESPONSE TO FAILURE CASES	4.06.40 P 1	
		SEQ 001	REV 13

FMGC RESPONSE TO FAILURE CASES

This table shows how the FMGC responds to failures in other parts of the system.

FAILURE CASE	AP/FD	A/THR	LANDING CAPACITIES
FIRST IRS FAILURE	NO EFFECT	NO EFFECT	CAT 3 SINGLE
SECOND IRS FAILURE	TOTAL LOSS	TOTAL LOSS	RAW DATA
FIRST ADC FAILURE *	NO EFFECT	NO EFFECT	CAT 3 SINGLE
SECOND ADC FAILURE	TOTAL LOSS	TOTAL LOSS	RAW DATA ONLY
FIRST LGCIU FAILURE	NO EFFECT	NO EFFECT	NO EFFECT
SECOND LGCIU FAILURE	NO EFFECT	NO EFFECT	NO EFFECT
LOSS OF ONE FMS COMPUTATION	LOSS OF ONE AP/FD/ATS EXCEPT IN APPR mode BELOW 700 FT AND GO AROUND MODES		NO EFFECT BELOW 700 FT
FIRST SFCC FAILURE	NO EFFECT	NO EFFECT	NO EFFECT
SECOND SFCC FAILURE	NO EFFECT	NO EFFECT	NO EFFECT
FIRST RADIOALTIMETER FAILURE	NO EFFECT	NO EFFECT	CAT 2
SECOND RADIOALTIMETER FAILURE	TOTAL LOSS OF ILS APPR MODE	NO EFFECT	ILS APPR*** MODE INOP
TOTAL LOSS OF THE FCU	TOTAL LOSS EXCEPT IN LAND AND GO AROUND	TOTAL LOSS	RAW DATA EXCEPT IN LAND MODE (CAT 2 MAX)
FIRST ILS RECEIVER FAILURE	NO EFFECT	NO EFFECT	CAT 1
SECOND ILS RECEIVER FAILURE	TOTAL LOSS IN APPR mode (ILS)	NO EFFECT	(ILS) APPR MODE INOP
FIRST/SECOND PRIM FAILURE**	NO EFFECT	NO EFFECT	CAT 3 single
TOTAL PRIM FAILURE	NO EFFECT	NO EFFECT	CAT 1
FCMC FAILURE	NO EFFECT	NO EFFECT	NO EFFECT

* The FMGC internal test may eliminate one ADR. In this case, the FMGC no longer checks this ADR until autopilot reengagement. If CAT III DUAL is lost on the FMGC in command without failure, the pilot may recover it by changing the autopilot in command.

** One SEC must also be available. The autopilot is lost if PRIM2 and SEC2 are lost, due to ailerons uplift.

*** LOC mode can be armed through the LOC pushbutton.

virgin atlantic A340-600 <i>Flight Crew Operating Manual</i>	IRREGULARITIES FMGC RESPONSE TO FAILURE CASES	4.06.40 P 2	
		SEQ 001	REV 12

FAILURE CASE	AP/FD	A/THR	LANDING CAPACITIES
FIRST YAW DAMPER OR RUDDER TRIM FAILURE	NO EFFECT	NO EFFECT	CAT 3 SINGLE
SECOND YAW DAMPER OR RUDDER TRIM FAILURE	TOTAL LOSS OF AP EXCEPT IN LAND MODE BELOW 200 FT AND BEFORE ROLL OUT	NO EFFECT	CAT 1 NO EFFECT BELOW 200 FT if previously CAT 2/3
FIRST BSCU FAILURE	NO EFFECT	NO EFFECT	NO EFFECT
SECOND BSCU FAILURE	NO EFFECT	NO EFFECT	CAT 3 SINGLE
FIRST FWC FAILURE	NO EFFECT	NO EFFECT	CAT 3 SINGLE
SECOND FWC FAILURE	NO EFFECT	NO EFFECT	CAT 1
LOSS OF PFD DATA ON ONE SIDE	NO EFFECT	NO EFFECT	CAT 1
TOTAL LOSS OF ONE FMGC	LOSS OF ONE AP/FD	LOSS OF ONE ATS	CAT 3 SINGLE
SINGLE HYDRAULIC FAILURE	NO EFFECT	NO EFFECT	CAT 3 SINGLE
DOUBLE HYDRAULIC FAILURE	TOTAL LOSS OF AP	NO EFFECT	CAT 1