



JOEL PLAICE & ASSOCIATES INC.

INTERNATIONAL SIMULATOR CONSULTING AND TECHNICAL SUPPORT SERVICES

Gulf AIR 767-300ER Full Flight Simulator Technical Description

Simulator General Description	
Operator/Sponsor	Gulf Air
Location	Manama, Kingdom of Bahrain
Manufacturer	Thomson Simulation
Original In-Service Date	1993
Current Status	Currently Certified and Operating in Training

Simulated Aircraft	
Aircraft Manufacturer	Boeing 767-300 ER
Engine Manufacturer / Model	CF6-80C2B4
Tail # Still in Operator's Fleet	GF-GZ, Yes, Boeing S/N 620

Qualification / Certification			
Authority:	Country:	Standard:	Classification:
UK CAA	UK	JAR-STD 1A	Level D

FAA	US	AC 120-40B	Level D
Certification Event:	Certifying Authority:	Date:	
Initial Qualification	FAA	1993	
Last Recurrent Evaluation	CAA	April 2007	
Next Recurrent Evaluation	CAA	April 2008	

Aircraft Avionics	
Unit / System:	Manufacturer / Model:
Flight Management	Honeywell
FMV Rehost Computer	N/A
MCDU	-906 Honeywell
GPWS / EGPWS	GPWS Mk7 (-008)
EICAS / ECAM	EAP-703 Configurable
EFIS Symbol Generator	622-9536-101

Flight Compartment	
Primary Flight Instrument Type	Electronic
Engine Instrument Type	Electronic
Unit / System:	Manufacturer / Model:

ADI EADI PFD	PFD/EADI 622-7998-003
HSI EHSI NFD	EHSI/ND 622-7999-003
CDU MCDU	4038170-905
INS GPS EGPWS	Sunstrand 965-0648-008 - GPWS
Autopilot	622-4717-004
TCAS	Simulated V7
IVSI	4039893-902
RDDMI	622-5001-109
Weather Radar	Yes – Maggs Driven
ACARS	No
ATIS	Not functional at present
Auto Throttles Installed	Yes
Heads Up Display	No
Simulator Upgrades	VL to VN series (manual stab trim and seats)

Motion System	
Manufacturer / Model	HRSL 6 DOF
Type (Hyd/Elec)	Hydraulic
Motion System Drive	Digital MIANDA

Number of Axis	6 Axis
Jack Stroke Length	60 inch Stroke
HPU Pump(s)	<ul style="list-style-type: none"> • 2 Motion Pumps • 1 Control Loading Pump • 1 Cooling Pump

Control Loading System	
Primary Controls:	
Manufacturer / Model	HRSL
Type (Hyd/Elec)	Hydraulic
Control System Drive	Digital CLIANDA
No. of Primary Channels	<ul style="list-style-type: none"> • 2 Roll • 2 Pitch • 1 Rudder • 2 Brakes
Loaded Primary Controls:	Installed:
Capt Aileron (Wheel)	Yes
Capt Elevator (Column)	Yes
Capt Rudder (Pedals)	Yes
FO Aileron (Wheel)	Yes
FO Elevator (Column)	Yes
FO Rudder (Pedals)	Yes

Nosewheel (Tiller)	Yes
Toe Brake (L&R)	Yes
Secondary Controls	
Loaded Secondary Controls:	Installed:
Stab Trim	Yes (Elec)
Speed Brake	Yes (Elec)
Auto Throttles	Yes (Hyd)

Visual System - Image Generator	
IG Manufacturer / Model	SPX 500HT
Number of Channels	3 Channels
Y2K Compliant	Yes
Visual System - Display System	
Display Type	WIDE Mirror
Field of View	150 Degrees x 40 Degrees
Projector Manufacturer / Model	Rediffusion
Window Display Configuration	Cross Cockpit
AutoCal	No
Visual Scenes	<ul style="list-style-type: none"> • Delhi • Frankfurt

	<ul style="list-style-type: none"> • Kathmandu • Dubai • Paris • CDG • Singapore • Bahrain
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Host Computer / Linkage	
Manufacturer / Model	32/67 MultiSEL
Operating System / Version	MPX 3.4
Y2K Compliant	Yes
Upgrades	Disk Drives
Linkage (I/O) Interface	1406
Options	N/A

Instructor Station	
Manufacturer / Model	Thales ACCESS
IOS Display	Dual Touch Screen/Color LCD
Computer	Motorola 68040 / SPARC CPU
Y2K Compliant	Yes
Remote Control Unit	Yes
Independent Crew Training	Not Applicable
Features	N/A

Aural Cue System	
Manufacturer / Model	HRSL
Type / Description	Digital

Simulated Special Effects		
Feature:	Installed:	
FAA / JAA Approved Windshear Profile(s)	FAA Windshere Profiles	
Microburst Model(s)	Yes	
Simulated Oxygen System	Yes	
Smoke Generation System	Yes	
CAT I, II, III	Yes	
ETOPS	No	
Data Package (Installed and Certified in the Simulator)		
Category:	Documentation:	Revision:
Aerodynamic Model	D611T305 , plus Flap 1 landing Effects (RevB) ; Rudder Effectiveness in Rev Thrust (Rev C); High Spd Spoiler Effects (Rev C)	Original
Flight Controls Model	D613T125-1101	J
Engine Model	D613T145 (GE CF6-80C2B4)	F

Documentation				
Source:		Amounts Present (Selection is Bold and Underlined)		
Equipment Manufacturer (Boeing & CAE)				
0%	25%	50%	<u>75%</u>	100%
Vendor (Computer, Visual, Peripherals, etc.)				
0%	25%	50%	<u>75%</u>	100%
Operator (Airline, etc)				
<u>0%</u>	25%	50%	75%	100%

Spare Parts				
Source:		Amounts Present (Selection is Bold and Underlined)		
Aircraft Parts				
<u>0%</u>	25%	50%	75%	100%
Simulator Manufacturer				
0%	<u>25%</u>	50%	75%	100%
Visual Manufacturer				
0%	<u>25%</u>	50%	75%	100%
Vendor				
<u>0%</u>	25%	50%	75%	100%