



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-50E2
UNIQUE ID NUMBER: 1GE009
COMBUSTOR:
ENGINE TYPE: TF

BYPASS RATIO: 4.3
PRESSURE RATIO (π_{00}): 29.8
RATED THRUST (F_{00}) (kN): 230.4

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	37.3	99.0	64.3	4.8
AS % OF ORIGINAL LIMIT	190.1	83.9	64.6	25.5
AS % OF CAEP/2 LIMIT (NO _x)			80.7	
AS % OF CAEP/4 LIMIT (NO _x)			96.5	
AS % OF CAEP/6 LIMIT (NO _x)			109.7	
AS % OF CAEP/8 LIMIT (NO _x)			129.0	

DATA STATUS

x PRE-REGULATION
- CERTIFICATION
x REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
- DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	2.487	0.60	0.50	36.30	4.1
CLIMB OUT	85	2.2	1.975	0.70	0.50	29.70	2.7
APPROACH	30	4.0	0.660	1.00	4.30	9.50	2.7
IDLE	7	26.0	0.215	21.80	61.80	3.60	4.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			859	7715	21591	14247	-
NUMBER OF ENGINES				6	6	6	6
NUMBER OF TESTS				6	6	6	6
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				33.5	93.7	61.8	4.5
SIGMA (D _p /F ₀₀ in g/kN, or SN)				3.8	4.6	0.5	1.5
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW)
STAGE BLEED 0 (% CORE FLOW)

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.3-100.4
TEMPERATURE (K)	270-296
ABS HUMIDITY (kg/kg)	0.0027-0.0103

FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	17.1

MANUFACTURER: General Electric Company
TEST ORGANIZATION: Production Engine Test
TEST LOCATION: Production Test Cells M34 & M35
TEST DATES: 12/10/1979-05/12/1979

REMARKS

1. Ref Report no FAA-EE-80-27 (GE Report R80AEG420)

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)