



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B7F
UNIQUE ID NUMBER: 2GE054
COMBUSTOR:
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{00}): 31.8
RATED THRUST (F_{00}) (kN): 267.0

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	14.8	59.5	50.0	9.6
AS % OF ORIGINAL LIMIT	75.5	50.4	48.3	53.1
AS % OF CAEP/2 LIMIT (NO _x)			60.3	
AS % OF CAEP/4 LIMIT (NO _x)			70.8	
AS % OF CAEP/6 LIMIT (NO _x)			79.9	
AS % OF CAEP/8 LIMIT (NO _x)			93.1	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
- 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)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.540	0.07	0.52	32.16	8.2
CLIMB OUT	85	2.2	2.020	0.08	0.52	23.09	5.4
APPROACH	30	4.0	0.640	0.19	1.92	9.06	2.3
IDLE	7	26.0	0.200	9.74	43.89	3.75	3.4
LTO TOTAL FUEL (kg) or EMISSIONS (g)			834	3041	13931	12134	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				11.4	52.2	45.4	8.2
SIGMA (D _p /F ₀₀ in g/kN, or SN)				1.2	2.8	2.0	1.4
RANGE (D _p /F ₀₀ in g/kN, or SN)				10.37-12.53	49.76-54.85	43.9-47.85	6.3-8.9

ACCESSORY LOADS

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

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.4-97.8
TEMPERATURE (K)	287-296
ABS HUMIDITY (kg/kg)	0.0084-0.014

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
TEST ORGANIZATION: CF6 Eval Engineering
TEST LOCATION: Site IIIC, PTO, Peebles, Ohio
TEST DATES: 29/05/1985-03/06/1985

REMARKS

1. Ref GE Report R88AEB277 and GE Report R93AE351.
2. Engine S/N's 690105 and 690005/2.

Compliance with Fuel Venting requirements:

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