



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B1F
UNIQUE ID NUMBER: 1GE024
COMBUSTOR:
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{00}): 30.1
RATED THRUST (F_{00}) (kN): 254.3

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	16.0	63.9	45.5	8.3
AS % OF ORIGINAL LIMIT	81.7	54.2	45.4	45.4
AS % OF CAEP/2 LIMIT (NO _x)			56.7	
AS % OF CAEP/4 LIMIT (NO _x)			67.7	
AS % OF CAEP/6 LIMIT (NO _x)			76.8	
AS % OF CAEP/8 LIMIT (NO _x)			90.3	

DATA STATUS

- 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	2.341	0.08	0.52	27.73	7.1
CLIMB OUT	85	2.2	1.901	0.09	0.52	21.07	4.8
APPROACH	30	4.0	0.621	0.20	2.21	9.00	2.3
IDLE	7	26.0	0.199	9.88	44.32	3.78	3.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			809	3127	14270	10528	-
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)				12.3	56.1	41.4	7.1
SIGMA (D _p /F ₀₀ in g/kN, or SN)				1.3	3.0	2.0	1.1
RANGE (D _p /F ₀₀ in g/kN, or SN)				11.22-13.48	53.51-58.88	39.83-43.77	5.7-7.5

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 R87AEB208 Rev A. (Jan 88).
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)