



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B1F BYPASS RATIO: 5.1
UNIQUE ID NUMBER: 01P02GE186 PRESSURE RATIO (π_{00}): 30.1
COMBUSTOR: LEC
ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 254.3

REGULATORY DATA ** DATA SUPERSEDED ** SEE FOLLOWING UID FOR REVISED DATA: 07P27GE218

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	2.6	28.2	48.0	8.1
AS % OF ORIGINAL LIMIT	13.3	23.9	47.9	44.1
AS % OF CAEP/2 LIMIT (NO _x)			59.9	
AS % OF CAEP/4 LIMIT (NO _x)			71.4	
AS % OF CAEP/6 LIMIT (NO _x)			81.1	
AS % OF CAEP/8 LIMIT (NO _x)			95.3	

For non-volatile particulate matter (nvPM) emissions, please refer to the ICAO Engine nvPM Emissions Data Sheet.

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)
- OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
	(%F _∞)			HC	CO	NO _x	
TAKE-OFF	100	0.7	2.422	0.05	0.04	24.94	6.9
CLIMB OUT	85	2.2	1.983	0.05	0.04	19.72	4.5
APPROACH	30	4.0	0.650	0.11	2.13	12.47	0.0
IDLE	7	26.0	0.199	1.54	19.23	4.73	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			830	513	6317	11113	–
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				4	4	4	4
AVERAGE D _p /F _∞ (g/kN) or AVERAGE SN (MAX)				2.0	24.8	43.7	6.9
SIGMA (D _p /F _∞ in g/kN, or SN)				0.2	1.2	0.3	0.6
RANGE (D _p /F _∞ in g/kN, or SN)				1.87–2.36	23.7–26.5	43.3–44	6.2–7.7

ACCESSORY LOADS

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

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.6-98.2
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	0.00457-0.00743

FUEL

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

MANUFACTURER: General Electric Company
TEST ORGANIZATION: CF6 Eval Engineering
TEST LOCATION: Site IIIB, PTO Peebles
TEST DATES: 13/01/1995-17/01/1995

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

REMARKS

1. Ref GE report TM95-17.
2. Engine S/N 704/233 & 704/234
3. 1862M39 combustor
4. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
5. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 e)

Compliance with Fuel Venting requirements:

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