



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B5F BYPASS RATIO: 5.1
UNIQUE ID NUMBER: 01P03GE187 PRESSURE RATIO (π_{co}): 32.8
COMBUSTOR: LEC
ENGINE TYPE: TF RATED THRUST (F_{oo}) (kN): 272.5

REGULATORY DATA ** DATA SUPERSEDED ** SEE FOLLOWING UID FOR REVISED DATA: 07P27GE219

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	2.2	24.8	53.0	8.7
AS % OF ORIGINAL LIMIT	11.2	21.0	50.2	48.4
AS % OF CAEP/2 LIMIT (NO _x)			62.7	
AS % OF CAEP/4 LIMIT (NO _x)			73.0	
AS % OF CAEP/6 LIMIT (NO _x)			82.0	
AS % OF CAEP/8 LIMIT (NO _x)			95.1	

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 _{oo})			HC	CO	NO _x	
TAKE-OFF	100	0.7	2.685	0.05	0.05	28.58	7.4
CLIMB OUT	85	2.2	2.162	0.05	0.04	21.76	5.2
APPROACH	30	4.0	0.697	0.11	1.83	12.74	0.0
IDLE	7	26.0	0.206	1.31	17.45	4.91	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			887	459	5931	13142	–
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				4	4	4	4
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				1.7	21.8	48.2	7.4
SIGMA (D _p /F _{oo} in g/kN, or SN)							
RANGE (D _p /F _{oo} 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)	97.6-98.2
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	0.0046-0.0074

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. GE Report TM95-17.
2. Engine S/N 704/223 & 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)