



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B2
UNIQUE ID NUMBER: 1GE025
COMBUSTOR:
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{00}): 27.7
RATED THRUST (F_{00}) (kN): 231.1

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	19.2	73.7	41.9	6.8
AS % OF ORIGINAL LIMIT	97.9	62.4	43.9	36.1
AS % OF CAEP/2 LIMIT (NO _x)			54.8	
AS % OF CAEP/4 LIMIT (NO _x)			66.1	
AS % OF CAEP/6 LIMIT (NO _x)			75.1	
AS % OF CAEP/8 LIMIT (NO _x)			89.3	

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	2.131	0.08	0.57	23.89	5.8
CLIMB OUT	85	2.2	1.761	0.10	0.55	18.65	3.9
APPROACH	30	4.0	0.577	0.22	2.65	8.77	2.4
IDLE	7	26.0	0.192	11.17	48.02	3.70	3.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			760	3407	14929	8796	-
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)				14.8	64.7	38.1	5.8
SIGMA (D _p /F ₀₀ in g/kN, or SN)				1.3	2.9	1.8	1.0
RANGE (D _p /F ₀₀ in g/kN, or SN)				13.68-16.01	62.12-67.28	36.7-40.37	4.6-6.3

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 R86AEB589.
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)