



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A3
UNIQUE ID NUMBER: 1GE017
COMBUSTOR:
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{oo}): 31.6
RATED THRUST (F_{oo}) (kN): 262.2

REGULATORY DATA

** DATA SUPERSEDED **

SEE FOLLOWING UID FOR REVISED DATA:

1GE018

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	14.7	60.0	54.9	9.1
AS % OF ORIGINAL LIMIT	75.0	50.9	53.1	50.3
AS % OF CAEP/2 LIMIT (NO _x)			66.4	
AS % OF CAEP/4 LIMIT (NO _x)			78.1	
AS % OF CAEP/6 LIMIT (NO _x)			88.2	
AS % OF CAEP/8 LIMIT (NO _x)			102.8	

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 _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	2.457	0.08	0.59	34.44	7.8
CLIMB OUT	85	2.2	2.003	0.10	0.57	25.45	5.1
APPROACH	30	4.0	0.649	0.21	2.15	10.01	2.3
IDLE	7	26.0	0.202	9.21	42.18	3.96	3.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			838	2970	13838	13090	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				11.3	52.7	49.9	7.8
SIGMA (D _p /F _{oo} in g/kN, or SN)				1.3	3.0	0.4	1.3
RANGE (D _p /F _{oo} in g/kN, or SN)				9.85-12.32	49.18-54.56	49.63-50.42	6.3-8.6

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 R86AEB143.
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)