



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A5F
UNIQUE ID NUMBER: 3GE056
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{oo}): 32.88
RATED OUTPUT (F_{oo}) (kN): 271.88

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	2.1	25.8	51.8	8.7
AS % OF ORIGINAL LIMIT	10.7 %	21.9 %	49.0 %	48.3 %
AS % OF CAEP/2 LIMIT (NOx)			61.2 %	
AS % OF CAEP/4 LIMIT (NOx)			71.2 %	
AS % OF CAEP/6 LIMIT (NOx)			80.0 %	
AS % OF CAEP/8 LIMIT (NOx)			92.7 %	

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

MEASURED DATA

MODE	POWER SETTING (% F_{oo})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	2.630	0.05	0.05	28.11	7.4
CLIMB OUT	85	2.2	2.106	0.04	0.04	21.27	5.2
APPROACH	30	4.0	0.691	0.11	1.92	12.64	0
IDLE	7	26.0	0.220	1.18	16.96	4.9	0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			897	440	6156	12796	-
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)				1.63	22.68	47.07	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) AT - POWER SETTINGS
STAGE BLEED 0 % CORE FLOW AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.61-98.15
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	.0046-.0074

FUEL

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

MANUFACTURER: GE
TEST ORGANIZATION: CF6 Ecval Engineering
TEST LOCATION: Site IIIB, PTO, Peebles, Ohio, USA
TEST DATES: FROM 13 Jan 95 TO 17 Jan 95

REMARKS

1. GE Report TM95-17.
2. Engine S/N 704/223 & 704/234
3. 1862M39 combustor

If REVISED, this data supersedes databank UID
Compliance with fuel venting requirements: 0 ('x' if complies, PR if pre-regulation)