

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80E1A4 BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 4GE081 34.5 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 297.44

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	1.4	20.3	53.5	6.5
AS % OF ORIGINAL LIMIT	7.1 %	17.2 %	49.1 %	37.0 %
AS % OF CAEP/2 LIMIT (NOx)			61.4 %	
AS % OF CAEP/4 LIMIT (NOx)			70.4 %	
AS % OF CAEP/6 LIMIT (NOx)			78.7 %	
AS % OF CAEP/8 LIMIT (NOx)			90.5 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES x

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

EMISSIONS STATUS

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

MEASURED DATA

	POWER	TIME	FUEL FLOW	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.904	0.04	0.04	31.28	5.9
CLIMB OUT	85	2.2	2.337	0.04	0.02	23.54	5.5
APPROACH	30	4.0	0.744	0.09	1.44	12.66	0
IDLE	7	26.0	0.227	0.92	15.05	4.77	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 963			359	5598	15027	_	
NUMBER OF ENGINES			3	3	3	3	
NUMBER OF TESTS			7	7	7	7	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			1.2	18.81	50.52	5.9	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	_	1	_	
RANGE $(D_p/F_{oo} \text{ in g/kN, or SN})$			-	-	-	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.61-98.15
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	.0045700743

FUEL

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

MANUFACTURER:

TEST ORGANIZATION: CF6 Evaluation Engineering TEST LOCATION: Site IIIB, PTO, Ohio

FROM 13 Jan 96 TEST DATES: TO 16 Mar 96

REMARKS

1. Ref GE Report TM95-17 & GEAE R95AEB272-2.

2. Engine S/N 704/233, 704/234 & 704/378

3. Low emissions combustor

If REVISED, this data supersedes databank UID Compliance with fuel venting requirements:

('x' if complies, PR if pre-regulation)