ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A5
UNIQUE ID NUMBER: 2GE039
COMBUSTOR: 1862M39
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{oo}): 31.7
RATED THRUST (F_{oo}) (kN): 267.3

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO$_X$	SMOKE NUMBER
D$_p$/F$_{oo}$ (g/kN) or SN	2.5	27.1	52.0	8.1
AS % OF ORIGINAL LIMIT	12.6	23.0	50.3	44.8
AS % OF CAEP/2 LIMIT (NO$_X$)			62.9	
AS % OF CAEP/4 LIMIT (NO$_X$)			73.9	
AS % OF CAEP/6 LIMIT (NO$_X$)			83.5	
AS % OF CAEP/8 LIMIT (NO$_X$)			97.3	

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$_{oo}$)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			
				HC	CO	NO$_X$	SMOKE NUMBER
TAKE-OFF	100	0.7	2.580	0.04	0.06	28.57	6.9
CLIMB OUT	85	2.2	2.096	0.05	0.04	21.69	5.4
APPROACH	30	4.0	0.672	0.11	1.91	12.53	0.0
IDLE	7	26.0	0.205	1.48	18.89	4.76	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			866	509	6367	12640	-
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)				1.9	23.8	47.3	6.9
SIGMA (D$_p$/F$_{oo}$ in g/kN, or SN)				0.2	2.0	0.5	0.9
RANGE (D$_p$/F$_{oo}$ in g/kN, or SN)				1.76-2.24	22.6-25.5	46.7-47.9	5.9-8.2

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.6-98.2
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	0.00457-0.00743

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

REMARKS

   1. Ref GE report TM95-17.
   2. Engine S/N 704/233 & 704/234
   3. 1862M39 combustor

Compliance with Fuel Venting requirements: -   ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)

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