ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B8FA
UNIQUE ID NUMBER: 3GE058
COMBUSTOR: 1862M39
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{oo}):   31.7

RATED THRUST (F_{oo}) (kN):   267.0

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO_X	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	2.4	26.4	51.1	8.4
AS % OF ORIGINAL LIMIT	12.2	22.4	49.4	46.4
AS % OF CAEP/2 LIMIT (NO_X)			61.8	
AS % OF CAEP/4 LIMIT (NO_X)			72.6	
AS % OF CAEP/6 LIMIT (NO_X)			81.9	
AS % OF CAEP/8 LIMIT (NO_X)			95.4	

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	2.605	0.05	0.05	26.90	7.2
CLIMB OUT	85	2.2	2.117	0.05	0.04	20.85	5.2
APPROACH	30	4.0	0.688	0.11	1.97	12.63	0.0
IDLE	7	26.0	0.205	1.41	18.27	4.83	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			874	489	6185	12400	-
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)				1.8	23.2	46.4	7.2
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)	97.6-98.2
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	0.0046-0.0074

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, Ohio
TEST DATES: 13/01/1995-17/01/1995

REMARKS

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

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