ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GE90-92B
UNIQUE ID NUMBER: 3GE061
COMBUSTOR: DAC I
ENGINE TYPE: TF

BYPASS RATIO: 8.4
PRESSURE RATIO (π_{oo}): 40.4

RATED THRUST (F_{oo}) (kN): 426.7

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO_X	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	4.4	55.5	77.4	10.5
AS % OF ORIGINAL LIMIT	22.4	47.0	64.1	66.0
AS % OF CAEP/2 LIMIT (NO_X)			80.1	
AS % OF CAEP/4 LIMIT (NO_X)			88.2	
AS % OF CAEP/6 LIMIT (NO_X)			97.0	
AS % OF CAEP/8 LIMIT (NO_X)			109.1	

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)			SMOKE NUMBER
				HC	CO	NO_X	
TAKE-OFF	100	0.7	3.523	0.09	0.08	59.56	0.0
CLIMB OUT	85	2.2	2.830	0.07	0.10	45.41	0.0
APPROACH	30	4.0	0.902	1.17	21.87	10.89	0.0
IDLE	7	26.0	0.316	2.64	34.70	6.17	9.3
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1231	1594	21891	31175	-
NUMBER OF ENGINES				3	3	3	3
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				3.7	51.3	73.1	9.5
SIGMA (D_p/F_{oo} in g/kN, or SN)							
RANGE (D_p/F_{oo} in g/kN, or SN)				3.58-3.94	48.4-53.3	71.7-75.7	8.9-9.5

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.4-98.6
TEMPERATURE (K)	274-299
ABS HUMIDITY (kg/kg)	0.001-0.0073

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	17.2

MANUFACTURER: General Electric Company
TEST ORGANIZATION: GE90 Eval Engineering
TEST LOCATION: Site IVD & 6, PTO, Peebles, Ohio
TEST DATES: 24/02/1995-28/07/1995

REMARKS

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

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