

**DOCKET NO.: SA-519**  
**EXHIBIT NO. 8G**

**NATIONAL TRANSPORTATION SAFETY BOARD**  
**WASHINGTON, D.C.**

**POWERPLANTS GROUP CHAIRMAN'S FACTUAL REPORT**  
**LEFT ENGINE PRESSURE RATIO TRANSMITTER**  
**PN LG80E1, SN F1203 CHECK WORKSHEET**

**American Airlines flight 1420**  
**Little Rock, Arkansas**  
**June 1, 1999**

**DCA99MA060**

LEFT ENGINE  
EPR

STATIC PRESSURE LEAK TEST (P<sub>5</sub>)

COM 7075  
ESD 870668

S/N: F1203

LEAK TEST RESULT: WITHIN TOLERANCE

Tested by

START POINT: 42 in Hg.

FRAN CORAN JR.

END POINT: 41.982 in Hg.  
(AFTER 5 MIN)

Fran Coran Jr.

EMPLOYEE # 482417

Allowed .25 in Hg drop.

DIFFERENTIAL PRESSURE LEAK TEST (P<sub>T</sub>)

LEAK TEST RESULT: WITHIN TOLERANCE

START POINT: P<sub>T</sub> = 96 in Hg.

END POINT: 95.83 in Hg.  
(AFTER 5 MIN)

Allowed .25 in Hg drop.

Section (B) Scale error checks

TRANSMITTER TEST PRESSURES

TABLE 101 TEST POINT #1			
	Syn #1	Syn #2	Syn #3
# 1	274.86	274.99	274.69
# 2	332.24	332.31	332.21
# 3	9.63	9.67	9.79
# 4	48.25	48.25	48.40
# 5	123.50	123.45	123.53
# 6	160.79	160.90	160.77
# 7	9.98	9.99	10.15
# 8	85.74	85.67	85.87
# 9	121.76	121.75	121.81
# 10	47.92	47.86	47.99
# 11	162.00	162.10	161.98
45° L	161.95	162.11	161.99
45° R	161.76	161.90	161.79
# 12	9.92	9.95	10.07
# 13	124.15	124.13	124.23
# 14	241.58	241.82	241.38
# 15	332.00	332.04	331.97
# 16	47.72	47.72	47.88
# 17	294.59	294.61	294.40
45° Left	294.34	294.46	294.25
45° R	294.20	294.31	294.10
# 18	9.70	9.73	9.88
# 19	123.96	123.95	124.06

POST VIB.

S1	S2	S3
275.04	275.20	274.86
332.36	332.43	332.34
9.63	9.67	9.81
48.17	48.17	48.32
123.62	123.59	123.67
160.81	160.93	160.79
9.52	9.58	9.73
85.60	85.62	85.82
121.84	121.80	121.90
47.66	47.65	47.80
161.85	161.97	161.85
9.79	9.87	10.00
124.12	124.13	124.23
241.39	241.59	241.16
331.74	331.99	331.91
47.67	47.72	47.86
294.35	294.45	294.24
9.62	9.66	9.88
123.95	123.94	124.05

TABLE 101  
see page

position check

slightly past of tolerance

# APPENDIX 6

(#19) Position error

45° L	123.95	123.95	124.05
45° R	123.92	123.94	124.05

#20 275.31 275.44 275.11

275.08 275.21 274.75

#21 124.13 124.12 124.19

124.05 124.06 124.19

LEFT ENGINE EPR

S/N F1208

Tested by: #16 214.58 214.89

214.30 214.61 214.17

FRAN GERAN JR.

Fran Geran Jr.

EMPLOYEE # 48247

(P. 110A)

lower stop: 200.22

upper stop: 180.43

↳ hesitant operation according to p. 106(a) ES08066B

## Section (D)

### Hysteresis Test

F <sub>1</sub>	F <sub>2</sub>	Angle reading up	down
7"	9.4	300.95	302.21
7"	16.8	143.63	143.83

← out of tol., allowed 0.95 diff. out by 0.31