

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

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

**POWERPLANTS GROUP CHAIRMAN'S FACTUAL REPORT**  
**JT8D-217C SN 725712 TEST CELL PERFORMANCE DATA**

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

**DCA99MA060**

TEST CELL CORR. FACTORS:ESO REV.

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American Airlines  
Acceptance  
Test Log No. 2  
JT8D-217C  
Extrapolated and Corrected Data  
V.1.37.01

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TEST CELL CORR. FACTORS:ESO REV.

S/N-DATE-TC : 725712-06/09/99-TC1  
RACK NUMBER: R276S REPAIR STANDARD: HEAVY MAINTENANCE TOTAL RUN TIME 10.16 MM.SS  
BARE NON-MAPS FUEL CONSUMED 81 GALS DEW POINT 69 F  
OPERATOR: JD BLACKFORD  
OBSERVER: M ROSA

POWER POINT TEST POINT NO. SAMPLE TIME GRD IDLE #0 11:03:17 PART PWR #1 11:04:48 FLT IDLE #2 11:07:04 GRD IDLE #3 11:10:22 MAX CRZ #4 11:10:55 MAX CON #5 00:00:00 NORM T/D #6 00:00:00 MAX T/D #7 00:00:00 GRD IDLE #8 00:00:00

=====  
| EGT Margins |  
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EGT MARGIN-MX T/O DEG F 0  
EGT MARGIN- T/O DEG F 0  
EGT MARGIN- M/C DEG F 0  
EGT MARGIN- CRZ DEG F 10  
EGT CORRECTED DEG F 718 721 736 995 993 0 0 0 0  
EGT LIMIT DEG F 607 622 720 986 984 0 0 0 0

=====  
| TSFC at Min Thrust |  
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20000 LBS (T/O) RATIO 0.000  
18000 LBS (MC) RATIO 0.000  
16400 LBS (CRZ) RATIO 0.486

=====  
| EPR/THRUST MARGIN |  
=====

EPR/FNC MARGIN LBS 0 0 0 0  
EPR/FNC CAPTURED LBS 0 0 0 0  
EPR/FNC HI LIMIT LBS 0 0 0 0  
EPR/FNC LO LIMIT LBS 0 0 0 0

# APPENDIX 4

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American Airlines  
Acceptance  
Test Log No. 4  
JT8D-217C  
Performance Data  
V.1.37.01

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TEST CELL CORR. FACTORS:ESD REV.

S/N-DATE-TC : 725712-06/09/99-TC1

RACK NUMBER:	R276S	REPAIR STANDARD:	HEAVY MAINTENANCE	TOTAL RUN TIME	6.24	MM. SS
BARE NON-MAPS	FUEL CONSUMED	17	GALS	DEW POINT	69	F
OPERATOR:	JD BLACKFORD					
OBSERVER:	M ROSA					

*Handwritten:* OBSERVED DATA - NO CORRECTIONS

*Handwritten:* GROUND IDLE

*Handwritten:* 11:03:17 11:04:48 11:07:04 11:10:22 11:10:55

POWER POINT TEST POINT NO. SAMPLE TIME		GRD IDLE	PART PWR	FLT IDLE	GRD IDLE	MAX CRZ	MAX CON	NORM T/O	MAX T/O	GRD IDLE
		#0	#1	#2	#3	#4	#5	#6	#7	#8
		11:03:17	11:04:48	11:07:04	11:10:22	11:10:55	00:00:00	00:00:00	00:00:00	00:00:00
EPR AVG	RATIO	1.028	1.063	1.293	1.941	1.936	0.0000	0.0000	0.0000	0.0000
THRUST OBS AVG	LBS	1160	1919	7056	18671	18631	0	0	0	0
FUEL FLOW AVERAGE	PPH	1133	1539	3845	10268	10157	0	0	0	0
N1 OBS AVERAGED	RPM	2411	3068	5449	7666	7661	0	0	0	0
N2 OBS AVERAGED	RPM	7028	8164	10339	11959	11997	0	0	0	0
TT2	DEG F	81.8	82.1	82.9	82.2	81.9	0.0	0.0	0.0	0.0
FUEL METER TEMP	DEG F	81.14	81.04	81.02	81.77	82.74	0.00	0.00	0.00	0.00
EGT	DEG F	770	775	792	1061	1058	0	0	0	0
TT7 (1)	DEG F	769	849	816	1084	1074	0	0	0	0
TT7 (2)	DEG F	759	810	781	1062	1065	0	0	0	0
TT7 (3)	DEG F	754	649	783	1058	1051	0	0	0	0
TT7 (4)	DEG F	758	713	778	1067	1064	0	0	0	0
TT7 (5)	DEG F	770	661	771	1070	1070	0	0	0	0
TT7 (6)	DEG F	798	899	825	1065	1064	0	0	0	0
TT7 (7)	DEG F	785	792	798	1042	1040	0	0	0	0
TT7 (8)	DEG F	770	827	788	1042	1037	0	0	0	0
PBAR	PSIA	14.381	14.381	14.381	14.383	14.382	0.000	0.000	0.000	0.000
BAROMETER	IN. HGA	29.281	29.280	29.281	29.283	29.282	0.000	0.000	0.000	0.000
CELL PRESS FRONT	PSIG	0.0	-0.1	-0.2	-0.5	-0.5	0.0	0.0	0.0	0.0
CELL PRESS FRONT	PSIA	14.347	14.324	14.178	13.894	13.898	0.000	0.000	0.000	0.000
CELL PRESS FRONT	IN. HG	-0.07	-0.12	-0.41	-0.99	-0.99	0.00	0.00	0.00	0.00
CELL PRESS FRONT	IN. HGA	29.210	29.163	28.867	28.289	28.296	0.000	0.000	0.000	0.000
CELL PRESS FRONT	IN. H2O	-0.96	-1.59	-5.62	-13.51	-13.41	0.00	0.00	0.00	0.00
CELL PRESS DIFF	IN. H2O	0.1531	0.2783	0.9815	2.399	2.423	0.0000	0.0000	0.0000	0.0000
CELL PRESS REAR	PSIG	0.0	0.0	-0.2	-0.4	-0.4	0.0	0.0	0.0	0.0
CELL PRESS REAR	PSIA	14.352	14.334	14.214	13.981	13.985	0.000	0.000	0.000	0.000
CELL PRESS REAR	IN. HG	-0.06	-0.10	-0.34	-0.82	-0.81	0.00	0.00	0.00	0.00
CELL PRESS REAR	IN. HGA	29.222	29.183	28.939	28.465	28.474	0.000	0.000	0.000	0.000
CELL PRESS REAR	IN. H2O	-0.80	-1.31	-4.64	-11.11	-10.99	0.00	0.00	0.00	0.00
PT2E ENGINE	IN. H2O	-0.90	-1.55	-5.11	-12.01	-12.12	0.00	0.00	0.00	0.00
PT2	PSIG	0.14	0.00	-0.21	-0.39	-0.38	0.00	0.00	0.00	0.00
PT2	PSIA	14.520	14.380	14.176	13.997	14.000	0.000	0.000	0.000	0.000
PT2	IN. HG	0.28	0.00	-0.42	-0.78	-0.78	0.00	0.00	0.00	0.00
PT2	IN. HGA	29.563	29.279	28.862	28.498	28.504	0.000	0.000	0.000	0.000
PT2	IN. H2O	3.83	-0.02	-5.69	-10.67	-10.58	0.00	0.00	0.00	0.00
PS2	PSIG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PS2	PSIA	14.381	14.381	14.381	14.383	14.382	0.000	0.000	0.000	0.000
PS2	IN. HG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PS2	IN. HGA	29.281	29.280	29.281	29.283	29.282	0.000	0.000	0.000	0.000
PS3.2	PSIG	6.0	8.8	33.6	76.7	75.8	0.0	0.0	0.0	0.0
PS3.2	PSIA	20.36	23.20	47.94	91.08	90.19	0.00	0.00	0.00	0.00
PS3.2	IN. HG	12.18	17.95	68.33	156.16	154.34	0.00	0.00	0.00	0.00
PS3.2	IN. HGA	41.46	47.23	97.62	185.45	183.62	0.00	0.00	0.00	0.00
PT3	PSIG	0.0	0.0	-0.2	-0.4	-0.4	0.0	0.0	0.0	0.0
PT3	PSIA	14.35	14.33	14.21	13.97	13.98	0.00	0.00	0.00	0.00
PT3	IN. HG	-0.07	-0.10	-0.35	-0.83	-0.83	0.00	0.00	0.00	0.00
PT3	IN. HGA	29.21	29.18	28.93	28.45	28.45	0.00	0.00	0.00	0.00
MUSCLE PRESSURE	PSIG	0.0	0.0	94.5	226.5	225.9	0.0	0.0	0.0	0.0
PS4	PSIG	20.0	32.3	104.9	233.6	232.5	0.0	0.0	0.0	0.0

PT4	PSIA	14.41	14.44	14.43	14.45	14.45	0.00	0.00	0.00	0.00
PT4	IN.HG	0.06	0.12	0.09	0.14	0.14	0.00	0.00	0.00	0.00
PT4	IN.HGA	29.34	29.40	29.37	29.43	29.42	0.00	0.00	0.00	0.00
PT6	PSIG	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
PT6	PSIA	14.41	14.43	14.44	14.46	14.46	0.00	0.00	0.00	0.00
PT6	IN.HG	0.06	0.11	0.11	0.15	0.16	0.00	0.00	0.00	0.00
PT6	IN.HGA	29.34	29.39	29.39	29.43	29.44	0.00	0.00	0.00	0.00
PT7	PSIG	0.5	0.9	3.9	12.8	12.7	0.0	0.0	0.0	0.0
PT7	PSIA	14.93	15.29	18.33	27.16	27.07	0.00	0.00	0.00	0.00
PT7	IN.HG	1.11	1.85	0.83	26.01	25.83	0.00	0.00	0.00	0.00
PT7	IN.HGA	30.39	31.13	37.31	55.29	55.11	0.00	0.00	0.00	0.00
PB (BURNER)	PSIG	21.0	33.5	106.1	235.6	234.8	0.0	0.0	0.0	0.0
PB (BURNER)	PSIGA	35.40	47.90	120.52	249.97	249.16	0.00	0.00	0.00	0.00
PB (BURNER)	IN.HG	42.00	60.24	216.11	479.66	478.01	0.00	0.00	0.00	0.00
PB (BURNER)	IN.HGA	72.00	97.52	245.39	500.95	507.29	0.00	0.00	0.00	0.00
PCP	PSIG	9.5	15.9	57.4	133.0	130.3	0.0	0.0	0.0	0.0
PCP	PSIA	23.86	30.33	71.77	147.31	144.67	0.00	0.00	0.00	0.00
PCP	IN.HG	19.29	32.46	116.85	270.64	265.26	0.00	0.00	0.00	0.00
PCP	IN.HGA	48.57	61.74	146.13	299.93	294.54	0.00	0.00	0.00	0.00
PCP	IN.H2O	262.23	441.36	*88.55	*79.46	*06.26	0.00	0.00	0.00	0.00
PBR	PSIG	0.0327	0.0537	0.1398	0.3371	0.3098	0.0000	0.0000	0.0000	0.0000
WF CORRECTED / BP	RATIO	31.30	31.72	31.91	41.68	41.35	0.0000	0.0000	0.0000	0.0000

VIB INLET 40HZ HP	MILS	0.39	0.71	0.47	0.70	0.68	0.00	0.00	0.00	0.00
VIB REAR 40HZ HP	MILS	0.63	1.22	2.00	1.62	1.49	0.00	0.00	0.00	0.00
VIB INL. 155HZ HP	MILS	0.13	0.18	0.26	0.49	0.49	0.00	0.00	0.00	0.00
VIB REAR 155HZ HP	MILS	0.15	0.48	0.48	1.04	0.95	0.00	0.00	0.00	0.00

VIB INLET N1 TRAC	MILS	0.30	0.64	0.30	0.31	0.29	0.00	0.00	0.00	0.00
VIB INLET N1 TRAC	RPM	2217	2921	5260	7488	7484	0	0	0	0
MAX INLET N1 TRAC	MILS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N10MX INL N1 TRAC	RPM	0	0	0	0	0	0	0	0	0
N20MX INL N1 TRAC	RPM	0	0	0	0	0	0	0	0	0

VIB REAR N1 TRAC	MILS	0.56	0.88	1.92	1.25	1.02	0.00	0.00	0.00	0.00
VIB REAR N1 TRAC	RPM	11815	15139	15376	15376	15376	0	0	0	0
MAX REAR N1 TRACK	MILS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N10MX RR N1 TRACK	RPM	0	0	0	0	0	0	0	0	0
N20MX RR N1 TRACK	RPM	0	0	0	0	0	0	0	0	0

VIB INLET N2 TRAC	MILS	0.18	0.18	0.22	0.36	0.41	0.00	0.00	0.00	0.00
VIB INLET N2 TRAC	RPM	6899	7958	10180	11820	11820	0	0	0	0
MAX INLET N2 TRAC	MILS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N10MX INL N2 TRAC	RPM	0	0	0	0	0	0	0	0	0
N20MX INL N2 TRAC	RPM	0	0	0	0	0	0	0	0	0

VIB REAR N2 TRAC	MILS	0.00	0.53	0.40	0.43	0.53	0.00	0.00	0.00	0.00
VIB REAR N2 TRAC	RPM	6888	7949	10165	11807	11807	0	0	0	0
MAX REAR N2 TRACK	MILS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N10MX RR N2 TRACK	RPM	0	0	0	0	0	0	0	0	0
N20MX RR N2 TRACK	RPM	0	0	0	0	0	0	0	0	0

OIL IN TEMP	DEG C	55	62	66	73	78	0	0	0	0
QEC OIL QUANTITY	QUARTS	16.4	17.2	17.2	18.1	18.4	0.0	0.0	0.0	0.0
MOP	PSIG	43.8	44.3	45.2	45.8	45.8	0.0	0.0	0.0	0.0
POWER LEVER ANGLE	DEG	18.8	18.8	-3.3	63.9	63.7	0.0	0.0	0.0	0.0
FUEL SG	RATIO	0.8000	0.8007	0.8007	0.8007	0.8007	0.0000	0.0000	0.0000	0.0000
FUEL DENSITY	LB/GAL	6.665	6.665	6.664	6.665	6.664	0.0000	0.0000	0.0000	0.0000

## APPENDIX 4

### STANDARD DAY PERFORMANCE DATA — WITH CELL CORRECTION

POWER POINT TEST POINT NO. SAMPLE TIME	GRD IDLE #0	PART PWR #1	FLT IDLE #2	GRD IDLE #3	MAX CRZ #4	MAX CON #5	NORM T/O #6	MAX T/O #7	GRD IDLE #8
	11:03:17	11:04:48	11:07:04	11:10:22	11:10:55	00:00:00	00:00:00	00:00:00	00:00:00
THRUST CORR.	LBS	1176	1960	7304	20098	20035	0	0	0
WF CORRECTED	PPH	1108	1520	3848	10416	10305	0	0	0
N1 FULL CORRECTED	RPM	2361	3000	5322	7488	7475	0	0	0
N2 FULL CORRECTED	RPM	6881	7986	10107	11700	11732	0	0	0
EGT CORRECTED	DEG F	718	721	736	995	993	0	0	0
TT7C / S19	DEG F	1.38	1.39	1.42	1.92	1.91	0.00	0.00	0.00
PT3.2/PT2	RATIO	0.9882	0.9967	1.002	0.9984	0.9983	0.0000	0.0000	0.0000
PT4/PT2	RATIO	0.9922	1.003	1.018	1.032	1.032	0.0000	0.0000	0.0000
PT6/PT7	RATIO	0.9655	0.9441	0.7877	0.5324	0.5342	0.0000	0.0000	0.0000
LP COMP PS3.2/PT2	RATIO	1.402	1.613	3.383	6.507	6.444	0.0000	0.0000	0.0000
HP COMP PS4/PS3.2	RATIO	1.689	2.011	2.488	2.722	2.738	0.0000	0.0000	0.0000
PS4/PT7	RATIO	2.304	3.050	6.510	9.130	9.123	0.0000	0.0000	0.0000
PS4/PT2	RATIO	2.369	3.243	8.417	17.71	17.64	0.0000	0.0000	0.0000
N1/N2 SPEED RATIO	RATIO	0.3430	0.3757	0.5265	0.6400	0.6371	0.0000	0.0000	0.0000
TURB. COOLING AIR	RATIO	0.6938	0.6501	0.6017	0.5944	0.5860	0.0000	0.0000	0.0000
TOTAL AIRFLOW	PPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CORE AIRFLOW	PPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPEC FUEL CONSUMP	RATIO	0.942	0.775	0.526	0.518	0.514	0.000	0.000	0.000

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 American Airlines  
 Trend Analysis Data  
 Test Log No. 5  
 JT8D-217C  
 V.1.37.01  
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TEST CELL CORR. FACTORS: ESO REV.

S/N-DATE-TC : 725712-06/09/99-TC1

RACK NUMBER: R276S REPAIR STANDARD: HEAVY MAINTENANCE TOTAL RUN TIME 6.24 MM.SS  
 BARE NON-MAPS FUEL CONSUMED 17 GALS DEW POINT 69 F  
 OPERATOR: JD BLACKFORD  
 OBSERVER: M ROSA

POWER POINT TEST POINT NO. SAMPLE TIME	GRD IDLE #0 11:03:17	FLT IDLE #2 11:04:48	MAX CRZ #4 11:07:04	MAX CON #5 11:10:22	NORM T/O #6 11:10:55
PBAR	PSIA 14.381	14.381	14.382	0.000	0.000
TT2	DEG F 81.8	82.9	81.9	0.0	0.0
TT4C / TT3C	RATIO 2.139	1.720	0.8599	0.0000	0.0000
TT7C / TT4C	RATIO 0.7612	0.9737	2.622	0.0000	0.0000
PS3.2	IN.HGA 41.46	97.62	183.62	0.00	0.00
PS4 ABS.	IN.HGA 70.05	242.83	502.80	0.00	0.00
EGT CORRECTED	DEG F 718	736	993	0	0
THRUST CORR.	LBS 1176	7384	20035	0	0
WF CORRECTED	PPH 1108	3848	10305	0	0
SPEC FUEL CONSUMP	RATIO 0.942	0.526	0.514	0.000	0.000
EPR AVG	RATIO 1.028	1.293	1.936	0.0000	0.0000
N1 FULL CORRECTED	RPM 2361	5322	7475	0	0
N2 FULL CORRECTED	RPM 6881	10107	11732	0	0
N1/N2 SPEED RATIO	RATIO 0.3430	0.5265	0.6371	0.0000	0.0000
LP COMP PS3.2/PT2	RATIO 1.402	3.383	6.444	0.0000	0.0000
HP COMP PS4/PS3.2	RATIO 1.689	2.488	2.738	0.0000	0.0000
PS4/PT7	RATIO 2.304	6.510	9.123	0.0000	0.0000
TURB. COOLING AIR	RATIO 0.6938	0.6017	0.5860	0.0000	0.0000
PBR	PSIG 0.0327	0.1398	0.3098	0.0000	0.0000
MOP	PSIG 43.8	45.2	45.8	0.0	0.0
WAT	0.0000	0.0000	0.0000	0.0000	0.0000
WAE	0.0000	0.0000	0.0000	0.0000	0.0000

Appendix 4

# APPENDIX 4

American Airlines  
 Acceptance  
 Test Log No. 3  
 JT8D-217C  
 Performance Data  
 V.1.37.01

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TEST CELL CORR. FACTORS:ESD REV.

S/N-DATE-TC : 725712-06/09/99-TC1

RACK NUMBER: R276S REPAIR STANDARD: HEAVY MAINTENANCE TOTAL RUN TIME 6.24 MIN. SS

BARE NON-MAPS FUEL CONSUMED 17 GALS DEW POINT 69 F

OPERATOR: JD BLACKFORD

OBSERVER: M ROSA

+=====+  
 | MISC. PARAMETERS |  
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POWER POINT		GRD IDLE #0	PART PWR #1	FLT IDLE #2	GRD IDLE #3	MAX CRZ #4	MAX CON #5	NORM T/O #6	MAX T/O #7	GRD IDLE #8
TEST POINT NO.		11:03:17	11:04:48	11:07:04	11:10:22	11:10:55	00:00:00	00:00:00	00:00:00	00:00:00
SAMPLE TIME										
AUX FCTN SWITCH #6	1 = ON	0	0	0	0	0	0	0	0	0
STABLE FLAG	1=STBL	0	1	0	0	0	0	0	0	0
GROUND IDLE 1=ON		1	0	1	1	1	0	0	0	0
ART SWITCH 1=ACT		0	0	0	0	0	0	0	0	0
G.I. LIMIT LO	RPM	6618			6621					0
G.I. LIMIT HI	RPM	6719			6721					0
P.P. STOP HI LIM	EPR		1.901							
P.P. STOP LOW LIM	EPR		1.886							
F.I. LIMIT LO	RPM			0						
F.I. LIMIT HI	RPM			0						
MAX CRUISE TGT	LBS					16093				
MAX CONT TGT	LBS						0			
NORM TAKEOFF TGT	LBS							0		
MAX TAKEOFF TGT	LBS								0	
MAX CRUISE LO	LBS					15990				
MAX CRUISE HI	LBS					16195				
MAX CONTINUOUS LO	LBS						0			
MAX CONTINUOUS HI	LBS						0			
NORMAL TAKEOFF LO	LBS							0		
NORMAL TAKEOFF HI	LBS							0		
MAX TAKEOFF LO	LBS								0	
MAX TAKEOFF HI	LBS								0	
FUEL FLOW AVERAGE	PPH	1133	1539	3845	10268	10157	0	0	0	0
WFM	PPH	1137	1541	3827	10224	10063	0	0	0	0
FUEL SYS. SEL	1=SYS1	1	1	1	1	1	0	0	0	0
FUEL FLOW	GPM	2.843	3.855	9.570	25.568	25.169	0.000	0.000	0.000	0.000
FUEL DENSITY	KG/M3	798.6	798.6	798.6	798.6	798.6	0.0000	0.0000	0.0000	0.0000
FUEL DENSITY	LB/GAL	6.665	6.665	6.664	6.665	6.664	0.0000	0.0000	0.0000	0.0000
FUEL SG	RATIO	0.8008	0.8007	0.8007	0.8007	0.8007	0.0000	0.0000	0.0000	0.0000
FUEL METER TEMP	DEG F	81.14	81.04	81.02	81.77	82.74	0.00	0.00	0.00	0.00
LOWER HEAT VALUE	LHV	18550	18550	18550	18550	18550	0	0	0	0
WF KC	FACTOR	1.026	1.027	1.028	1.027	1.026	0.0000	0.0000	0.0000	0.0000
DELTA (PRESS COR)	FACTOR	0.9881	0.9786	0.9647	0.9524	0.9527	0.0000	0.0000	0.0000	0.0000
THETA (TEMP COR)	FACTOR	1.044	1.045	1.046	1.045	1.044	0.0000	0.0000	0.0000	0.0000
THETA .5 POWER	FACTOR	1.022	1.022	1.023	1.022	1.022	0.0000	0.0000	0.0000	0.0000
THETA 1.019 POWER	FACTOR	1.045	1.045	1.047	1.046	1.045	0.0000	0.0000	0.0000	0.0000
THETA .985 POWER	FACTOR	1.043	1.044	1.045	1.044	1.043	0.0000	0.0000	0.0000	0.0000
PT2	IN.HGA	29.563	29.279	28.862	28.498	28.504	0.000	0.000	0.000	0.000
PS3.2	IN.HGA	41.46	47.23	97.62	185.45	183.62	0.00	0.00	0.00	0.00
WAT		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WAE		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
THRUST OBS AVG	LBS	1160	1919	7056	18671	18631	0	0	0	0
THRUST CORR TYPE	1 OR 2	1	1	1	1	1	0	0	0	0
THRUST/DELTA	LBS	1176	1960	7304	19522	19460	0	0	0	0
DELTA FN/ST2	LBS	0	0	0	576	574	0	0	0	0
THRUST CORR.	LBS	1176	1960	7304	20098	20035	0	0	0	0
WT OBS	PPH	2410	2822	5440	7452	7437	0	0	0	0

N2 OBS	RPM	7031	8162	10337	11962	11968	0	0	0	0
F.I. HI LMT TEMP.	RPM	1455	1455	1454	1455	1455	0	0	0	0
F.I. LO LMT TEMP.	RPM	950	949	949	949	950	0	0	0	0
F.I. INCREMENT	RPM	69	69	69	69	69	0	0	0	0
N2 ACCEL TARGET	RPM						0	0	0	0
TT2 #1	DEG F	82	82	83	82	82	0	0	0	0
TT2 #2	DEG F	82	82	83	82	82	0	0	0	0
TT2 #3	DEG F	82	83	83	82	82	0	0	0	0
TT2 #4	DEG F	82	82	83	82	82	0	0	0	0
EXHAUST #1 TEMP	DEG F	*63689	*84210	*23973	*94461	*19841	0	0	0	0
EXHAUST #2 TEMP	DEG F	119558	99279	58935	-23431	-44348	0	0	0	0
EXHAUST #3 TEMP	DEG F	*10182	*08744	*54907	*36806	*45373	0	0	0	0
EXHAUST #4 TEMP	DEG F	*19491	*49355	*72255	*43222	*67073	0	0	0	0
EXHAUST STACK	DEG F	*43451	*60757	*98050	*74480	*94158	0	0	0	0
TT2	DEG F	81.8	82.1	82.9	82.2	81.9	0.0	0.0	0.0	0.0
TT3 LEFT	DEG F	-788	-850	-997	-1326	-1411	0	0	0	0
TT3 RIGHT	DEG F	660	595	444	107	21	0	0	0	0
TT4	DEG F	524	468	331	22	-64	0	0	0	0
TT71-TT7 HARN AVE	DEG F						0	0	0	0
TT72-TT7 HARN AVE	DEG F						0	0	0	0
TT73-TT7 HARN AVE	DEG F						0	0	0	0
TT74-TT7 HARN AVE	DEG F						0	0	0	0
TT75-TT7 HARN AVE	DEG F						0	0	0	0
TT76-TT7 HARN AVE	DEG F						0	0	0	0
TT77-TT7 HARN AVE	DEG F						0	0	0	0
TT78-TT7 HARN AVE	DEG F						0	0	0	0
TT7 PROBE MAXIMUM	DEG F						0	0	0	0
TT7 PROBE MINIMUM	DEG F						0	0	0	0
TT7 PROBE-HARN MX	DEG F						0	0	0	0
TT7 PROBE SPREAD	DEG F						0	0	0	0
SPEC FUEL CONSUMP	RATIO	0.942	0.775	0.526	0.518	0.514	0.000	0.000	0.000	0.000
EGT	DEG F	770	775	792	1061	1058	0	0	0	0
BAROMETER	IN. HGA	29.281	29.280	29.281	29.283	29.282	0.000	0.000	0.000	0.000
CELL PRESS REAR	IN. H2O	-0.80	-1.31	-4.64	-11.11	-10.99	0.00	0.00	0.00	0.00
CELL PRESS FRONT	IN. H2O	-0.96	-1.59	-5.62	-13.51	-13.41	0.00	0.00	0.00	0.00
PT2	IN. HGA	29.563	29.279	28.862	28.498	28.584	0.000	0.000	0.000	0.000
PS2	IN. HGA	29.281	29.280	29.281	29.283	29.282	0.000	0.000	0.000	0.000
PT7	IN. HGA	30.39	31.13	37.31	55.29	55.11	0.00	0.00	0.00	0.00
PT4	IN. HGA	29.34	29.40	29.37	29.43	29.42	0.00	0.00	0.00	0.00
PS4 ABS.	IN. HGA	70.05	95.00	242.83	504.69	504.69	0.00	0.00	0.00	0.00
PR (BURNER)	IN. HGA	72.00	97.52	245.39	508.95	508.95	0.00	0.00	0.00	0.00
PT3	IN. HGA	29.21	29.18	28.93	28.45	28.45	0.00	0.00	0.00	0.00
PS3.2	IN. HGA	41.46	47.23	97.62	185.45	185.82	0.00	0.00	0.00	0.00
PCP	IN. HGA	48.57	61.74	146.13	299.93	294.54	0.00	0.00	0.00	0.00
PT6	IN. HGA	29.34	29.39	29.39	29.43	29.44	0.00	0.00	0.00	0.00
STORED AIR PRESS	PSIG	109.2	109.2	109.2	109.2	109.2	0.0	0.0	0.0	0.0
START AIR PRESS	PSIG	0.0	0.0	-0.2	-0.4	-0.4	0.0	0.0	0.0	0.0
FUEL INLET PRESS	PSIG	37.9	37.8	36.8	33.2	33.6	0.0	0.0	0.0	0.0
PBR	PSIG	0.0327	0.0537	0.1398	0.3371	0.3098	0.0000	0.0000	0.0000	0.0000
THRUST OBSERVED	LBS	1161	1917	7030	18620	18505	0	0	0	0
THRUST VERIFY	LBS	*38464	*26616	*17528	*90113	*79828	0	0	0	0

10:02:32 ENGINE SHUT DOWN DETECTED

11:03:33 ENGINE IS STABILIZED

11:05:42 STABILIZATION TIME EXCEEDS 5 MINUTES

11:09:19 SL-HI ( 5.0) MUSCLE/PS4 DIFF. 10.3 PSIG RTN TO IDLE CK PS4

Appendix 4