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AFFTC-TR-57-1
March 1957
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No. AD-118707

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APPENDIX IV

(Title Unclassified)

**F-86E THRUST
AUGMENTATION EVALUATION**

NORRIS J. HANKS
Captain, USAF
Project Engineer

LOREN W. DAVIS
Captain, USAF
Project Pilot

**AIR FORCE FLIGHT TEST CENTER
EDWARDS AIR FORCE BASE, CALIFORNIA
AIR RESEARCH AND DEVELOPMENT COMMAND
UNITED STATES AIR FORCE**

APR 26 1957

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(Title Unclassified)
F-86E THRUST AUGMENTATION EVALUATION

AFFTC-TR-57-1
ASTIA DOCUMENT NO. AD 118707
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NORRIS J. HANKS
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NOTE: Due to the limited requirement for the information contained in this Appendix, it has been published in a separate volume. Copies of this Appendix can be obtained by writing to the Armed Services Technical Information Agency (see inside cover).

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

THRUST CALIBRATION

Screens Fixed in Place

Date	4 Oct 1956	Fuel Density - Lb/Gal. 6.51				
RPM	7934	7702	7462	7241	6978	6676
EGT - °C	721	662	622	582	542	497
Fuel Pressure - PSI	335	300	275	245	220	185
Pt ₆ - PSI	24.23	23.28	22.87	21.90	20.60	19.34
Δ Fuel - Gal.	17.5	10.9	9.4	12.8	11.7	9.4
Δ Time - Sec.	75.0	52.5	49.5	74.7	77.0	72.0
Ambient Pressure - " Hg	27.572					
Ambient Temperature - °C	21.1			21.3		
Measured Thrust - Lb.	4610	4300	3980	3700	3300	2820

RPM	6353	6024	5705	5386	7672	
EGT - °C	462	437	422	407	662	
Fuel Pressure - PSI	160	135	120	105	290	
Pt ₆ - PSI	18.06	17.37	16.72	16.07	23.23	
Δ Fuel - Gal.	10.0	7.9	7.0	6.5	16.0	
Δ Time - Sec.	89.0	81.7	81.4	85.0	78.5	
Ambient Pressure - " Hg				27.575		
Ambient Temperature - °C	21.7			21.1		
Measured Thrust - Lb.	2377	1950	1625	1328	4230	

AIRSPEED CALIBRATION

Clean Configuration

Flight No.	1					→
Indicated Airspeed - Kts.	376.5	349.5	306.5	239	197.5	167.5
Indicated Altitude - Ft.	19905	19920	19945	19920	19900	19930
V _c - Pacer - Kts.	382.5	353	311.5	243.5	201	171.5
H _p - Pacer - Ft.	20380	20340	20325	20160	20070	20065

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AIRSPEED CALIBRATION (Continued)

Clean Configuration

Flight No.	1			3		
Indicated Airspeed - Kts.	154.5	308.5	353.5	454	399.5	354.5
Indicated Altitude - Ft.	19970	20025	20045	11975	11975	11985
V _c - Pacer - Kts.	156	313.5	358	460.8	404.6	360.1
H _p - Pacer - Ft.	20080	20380	20485	12495	12390	12320
Flight No.	3					8
Indicated Airspeed - Kts.	302	243.7	198.5	147	224.5	232.5
Indicated Altitude - Ft.	11965	11955	11975	11965	11975	39660
V _c - Pacer - Kts.	307	248.4	201.6	149.6	228.2	202.5
H _p - Pacer - Ft.	12220	12125	12085	12025	12130	39990
Flight No.	8					8
Indicated Airspeed - Kts.	230.5	223	217.5	213.5	204.5	201
Indicated Altitude - Ft.	39565	39640	39590	39630	39675	39770
V _c - Pacer - Kts.	202.5	202.5	221			243.5
H _p - Pacer - Ft.	39990	39990	40020			39990
Flight No.	8					
Indicated Airspeed - Kts.	213	226	239	252.5	264.5	275.5
Indicated Altitude - Ft.	39825	39810	39745	39680	39620	39575
V _c - Pacer - Kts.	243.5					
H _p - Pacer - Ft.	39990					
Flight No.	8					
Indicated Airspeed - Kts.	284.5	294	297.5	299.5		
Indicated Altitude - Ft.	39510	39430	39315	39230		
V _c - Pacer - Kts.	243.5					
H _p - Pacer - Ft.	39990					

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

MILITARY POWER CLIMBS

No External Stores (Tank Dropped if Used For Initial Climb)

Flight No.	5					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	0	367.2	350.5	357.8	342.5	338.0
Indicated Altitude - Ft.	2515	3985	5975	8085	9960	11980
Time - Min and Sec.	0	2:27	2:51	3:21	3:455	4:21.5
RPM	7963	7933	7937	7933	7948	7943
EGT - °C	682	717	717	712	712	707
Ambient Temperature - °C	14.0	10.9	7.7	5.5	3.6	-1.0
Fuel Count - Gal.	31.6	68.3	74.4	81.8	87.3	95.1
Wind Direction - Deg.	—	296	304	312	320	324
Wind Speed - Kts.	—	9.0	11.0	13.0	15.0	19.0
Climb Heading - Deg.	020					

Flight No.	5				6	6
Wt. Engine Start - Lb.	15997				15997	15997
Fuel Density - Lb/Gal.	6.54				6.54	6.54
Indicated Airspeed - Kts.	324.9	323.8	314.5	302.5	0	355.9
Indicated Altitude - Ft.	13910	15920	17900	19835	2370	4045
Time - Min and Sec.	4:56	5:37	6:17	7:00	0	2:28
RPM	7943	7938	7913	7903	7958	7929
EGT - °C	704	702	697	687	697	722
Ambient Temperature - °C	-5.0	-9.6	-14.0	-18.0	19.0	16.0
Fuel Count - Gal.	101.8	109.6	116.4	123.4	26.2	63.3
Wind Direction - Deg.	328	330	330	330	—	082
Wind Speed - Kts	23.0	27.0	31.0	35.0	—	4.0
Climb Heading - Deg.	020				020	020

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF Nd. 51-2773

MILITARY POWER CLIMBS

No External Stores (Tank Dropped if Used For Initial Climb)

Flight No.	6					
Wt. Engine Start - Lbs.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	353.0	350.5	344.5	336.5	332.4	323.8
Indicated Altitude - Ft.	6050	7980	10090	12960	13985	16000
Time - Min and Sec.	2:57	3:29	4:00	4:50	5:11	5:48
RPM	7933	7943	7943	7948	7943	7938
EGT - °C	717	712	712	702	702	702
Ambient Temperature - °C	12.6	9.5	7.5	-1.8	-3.0	-6.5
Fuel Count - Gal.	70.7	78.5	85.7	96.4	100.7	107.8
Wind Direction - Deg.	98	114	130	148	154	164
Wind Speed - Kts.	6.0	8.0	10.0	7.0	6.0	6.0
Climb Heading - Deg.	020					

Flight No.	6	6	10			
Wt. Engine Start - Lbs.	15997	15997	15997			
Fuel Density - Lb/Gal.	6.54	6.54	6.54			
Indicated Airspeed - Kts.	310.0	302.5	0	359.2	362	352.5
Indicated Altitude - Ft.	18020	19970	2400	2980	3980	8070
Time - Min and Sec.	6:23	7:03	0	2:06	2:22	3:16
RPM	7909	7899	7988	7968	7958	7963
EGT - °C	692	687	702	742	742	727
Ambient Temperature - °C	-11.0	-16.4	21.0	20.0	18.6	9.5
Fuel Count - Gal.	113.7	120.6	10.6	43.2	47.9	61.8
Wind Direction - Deg.	192	180	—	268	264	248
Wind Speed - Kts.	8.0	10.0	—	15.0	15.0	15.0
Climb Heading - Deg.	020	020	020			

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

MILITARY POWER CLIMBS

No External Stores (Tank Dropped if Used For Initial Climb)

Flight No.	10					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	339.5	324.9	300.5	281.5	268.5	264.0
Indicated Altitude - Ft.	11965	15935	19935	23935	27905	29840
Time - Min and Sec.	4:16	5:25	6:40	8:13	10:08	11:13
RPM	7973	7963	7919	7913	7903	7890
EGT - °C	722	722	702	702	702	702
Ambient Temperature - °C	4.5	-8.5	-17.5	-26.5	-36.3	-40.6
Fuel Count - Gal.	75.8	89.7	102.8	117.0	132.3	140.2
Wind Direction - Deg.	240	248	280	288	294	300
Wind Speed - Kts.	13.0	12.0	20.0	20.0	23.0	25.0
Climb Heading - DEG.	020					
Flight No.	18					
Wt. Engine Start - Lb.	15975					
Fuel Density - Lb/Gal.	6.47					
Indicated Airspeed - Kts.	0	385.5	378.5	379.0	361.6	364.7
Indicated Altitude - Ft.	0	2725	4045	6065	8055	9960
Time - Min and Sec.	0	2:03	2:18	2:48	3:10	3:32
RPM	7958	7933	7943	7928	7928	7948
EGT - °C	682	722	722	707	707	707
Ambient Temperature - °C	11.5	9.3	5.0	0.5	-3.0	-6.0
Fuel Count - Gal.	14.9	47.3	51.7	59.8	65.5	70.8
Wind Direction - Deg.	—	332.0	336	344	352	360
Wind Speed - Kts	—	6.0	8.0	12.0	16.0	20.0
Climb Heading - DEG.	020					

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

MILITARY POWER CLIMBS

No External Stores (Tank Dropped if Used For Initial Climb)

Flight No.	18					
Wt. Engine Start - Lb.	15975					
Fuel Density - Lb/Gal.	6.47					
Indicated Airspeed - Kts.	343	344.4	335.0	327.0	319.9	311.1
Indicated Altitude - Ft.	12055	14060	16090	18065	20080	22040
Time - Min and Sec.	3:54	4:39	5:17	5:56	6:37	7:23
RPM	7953	7958	7953	7938	7908	7903
EGT - °C	707	702	702	702	692	692
Ambient Temperature - °C	-6.0	-9.5	-12.5	-17.0	-20.0	-26.0
Fuel Count - Gal.	75.8	85.3	92.7	99.9	106.9	114.4
Wind Direction - Deg.	348	336	330	330	330	334
Wind Speed - Kts.	36.0	52.0	64.0	72.0	80.0	82.0
Climb Heading - DEG.	020					

Flight No.	18	18	24			
Wt. Engine Start - Lb.	15975	15975	15970			
Fuel Density - Lb/Gal.	6.47	6.47	6.44			
Indicated Airspeed - Kts.	302.1	290.6	0	385.5	368	366
Indicated Altitude - Ft.	24050	26020	2150	2360	6020	8040
Time - Min and Sec.	8:08	8:57	0	1:51	2:38	3:08
RPM	7903	7893	7978	7958	7953	7953
EGT - °C	697	697	702	727	722	722
Ambient Temperature - °C	-30.5	-35.5	22.2	21.0	14.7	10.3
Fuel Count - Gal.	121.3	128.2	22.0	51.7	64.6	72.5
Wind Direction - Deg.	338	340	—	—	088	084
Wind Speed - Kts	84.0	85.0	—	—	15.0	15.0
Climb Heading - DEG.	020	020	330			

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

MILITARY POWER CLIMBS

No External Stores (Tank Dropped if Used For Initial Climb)

Flight No.	24					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	362.5	351.5	340	337	325	320
Indicated Altitude - Ft.	10040	12060	14080	16070	18100	20050
Time - Min and Sec.	3:42	4:12	4:42	5:21	5:57	6:45
RPM	7968	7968	7968	7963	7943	7918
EGT - °C	712	722	712	707	702	697
Ambient Temperature - °C	6.5	0.8	-3.7	-10.3	-14.0	-17.0
Fuel Count - Gal.	80.5	87.3	93.4	101.1	107.9	116.1
Wind Direction - Deg.	080	072	064	064	072	080
Wind Speed - Kts.	15.0	13.0	11.0	10.0	10.0	10.0
Climb Heading - DEG.	330					

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	0	293	295	386.5	375.5	373
Indicated Altitude - Ft.	2230	2310	2330	2540	4065	6135
Time - Min and Sec.	0	1:25.5	1:29	2:10.5	2:31.9	2:59.5
RPM	7938	7918	7913	7918	7913	7918
EGT - °C	697	722	722	722	722	712
Ambient Temperature - °C	21.5	—	—	20.5	18.0	13.0
Fuel Count - Gal.	18.1	40.0	40.4	51.7	57.7	64.8
Wind Direction - Deg.	—	—	—	—	092	088
Wind Speed - Kts	—	—	—	—	15.0	15.0
Climb Heading - DEG.	150					

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

MILITARY POWER CLIMBS

No External Stores (Tank Dropped if Used For Initial Climb)

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	365.5	357.5	355	345	331.5	326.5
Indicated Altitude - Ft.	8035	10070	12040	14065	16060	18070
Time - Min and Sec.	3:30.8	4:04	4:44.5	5:22.5	6:03.5	6:41.8
RPM	7923	7943	7943	7938	7928	7918
EGT - °C	707	702	702	702	692	682
Ambient Temperature - °C	10.0	6.0	1.0	-4.0	-10.6	-14.0
Fuel Count - Gal.	72.6	80.3	89.2	97.1	104.9	111.9
Wind Direction - Deg.	084	080	072	064	064	072
Wind Speed - Kts.	15.0	15.0	13.0	11.0	10.0	10.0
Climb Heading - Deg.	150					
Flight No.	25	21				
Wt. Engine Start - Lb.	15970	16840				
Fuel Density - Lb/Gal.	6.44	6.44				
Indicated Airspeed - Kts.	320	268	259.5	252.5	238.5	232
Indicated Altitude - Ft.	20070	29940	31880	34040	35730	37700
Time - Min and Sec.	7:26.5	0	1:22.6	3:12	4:24.5	6:30.5
RPM	7883	7873	7868	7863	7913	7858
EGT - °C	682	702	702	702	707	707
Ambient Temperature - °C	-18.0	-41.0	-46.0	-51.4	-54.5	-57.5
Fuel Count - Gal.	119.4	181.2	190.6	202.3	209.5	221.3
Wind Direction - Deg.	080	360	360	360	002	006
Wind Speed - Kts	10.0	25.0	25.0	25.0	27.0	31.0
Climb Heading - Deg.	150	090				

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	24					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	361	360	360	355.5	353.5	351.5
Indicated Altitude - Ft.	20055	20135	20615	21105	21585	22105
Time - Min and Sec.	0	3.5	13.5	16.5	19.5	22.5
Rocket On	✓	✓	✓	✓	✓	✓
RPM* Indicates Flame Out	7242	7242	7257	7828	7943	7953
EGT - °C	542	542	542	617	642	647
Ambient Temperature - °C	-18.0	—	-19.5	—	-21.7	—
Fuel Count - Gal.	137.7	138.1	139.3	139.9	140.4	140.9
Wind Direction - Deg.	080	080	079	078	077	076
Wind Speed - Kts.	10	10	10	10	10	10
Climb Heading - Deg.	090					

Flight No.	24					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	347.5	343.5	340	339	337	333.5
Indicated Altitude - Ft.	22590	23110	23600	24115	24640	25120
Time - Min and Sec.	25	22.8	30.2	32.8	35.5	37.5
Rocket On	✓	✓	✓	✓	✓	✓
RPM * Indicates Flame Out	7938	7923	7938	7938	7938	7928
EGT - °C	662	662	667	672	677	682
Ambient Temperature - °C	-24.0	—	-26.5	—	-29.0	—
Fuel Count - Gal.	141.4	141.8	142.2	142.6	143.0	143.3
Wind Direction - Deg.	075	074	073	072	071	070
Wind Speed - Kts.	10	10	10	10	10	10
Climb Heading - DEG.	090					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	24					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	331	328	325	322.5	319	314.5
Indicated Altitude - Ft.	25650	26120	26625	27100	27630	28115
Time - Min and Sec.	39.8	42.2	44.5	46.5	48.8	50.8
Rocket On	✓	✓	✓	✓	✓	✓
RPM* Indicates Flame Out	7923	7928	7928	7918	7913	7913
EGT - °C	682	682	682	692	692	692
Ambient Temperature - °C	-31.5	—	-34.0	—	-37.0	—
Fuel Count - Gal.	143.7	144.0	144.3	144.6	144.9	145.2
Wind Direction - Deg.	069	068	067	066	065	064
Wind Speed - Kts.	10	10	10	10	10	10
Climb Heading - DEG.	090					

Flight No.	24					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	310.5	307	302.5	297	293.5	289
Indicated Altitude - Ft.	28630	29135	29585	30130	30590	31105
Time - Min and Sec.	53	55	56.8	58.8	1:00.5	1:02.8
Rocket On	✓	✓	✓	✓	✓	✓
RPM * Indicates Flame Out	7908	7903	7908	7903	7908	7903
EGT - °C	697	697	702	702	702	712
Ambient Temperature - °C	-40.0	—	-43.0	—	-45.5	—
Fuel Count - Gal.	145.5	145.8	146.0	146.2	146.5	146.7
Wind Direction - Deg.	063	062	061	060	066	072
Wind Speed - Kts.	10	10	10	10	11	12
Climb Heading - DEG.	090					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	24					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	285.5	284	282.5	280	276.5	269
Indicated Altitude - Ft.	31625	32110	32585	33060	33570	34045
Time - Min and Sec.	1:04.8	1:06.8	1:09	1:11.2	1:13.5	1:16
Rocket On	✓	✓	✓	✓		
RPM* Indicates Flame Out	7898	7903	7898	7888	7893	7863
EGT - °C	712	712	712	712	712	717
Ambient Temperature - °C	-48.0	—	-50.0	—	-52.5	
Fuel Count - Gal.	147.0	147.2	147.4	147.7	148.0	148.2
Wind Direction - Deg.	078	084	090	096	102	108
Wind Speed - Kts.	13	14	15	16	17	18
Climb Heading - Deg.	090					

Flight No.	24					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	262	254.5	248	240.5	228.5	218.5
Indicated Altitude - Ft.	34540	35030	35505	35990	36480	37000
Time - Min and Sec.	1:18.5	1:21.5	1:24	1:26.8	1:29.5	1:32.2
Rocket On						
RPM * Indicates Flame Out	7863	7858	7858	7863	7863	7868
EGT - °C	717	712	712	712	717	717
Ambient Temperature - °C						
Fuel Count - Gal.	148.5	148.8	149.1	149.3	149.6	149.9
Wind Direction - Deg.	114	120	143	166	189	212
Wind Speed - Kts.	19	20	19	18	17	16
Climb Heading - Deg.	090					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	24					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	210.5	200	191	179	172	163.5
Indicated Altitude - Ft.	37480	37975	38495	38995	39495	40005
Time - Min and Sec.	1:34.8	1:37.5	1:40.5	1:43.5	1:46.8	1:50
Rocket On						
RPM * Indicates Flame Out	7863	7863	7873	7868	7873	7873
EGT - °C	717	722	722	727	732	737
Ambient Temperature - °C						
Fuel Count - Gal.	150.1	150.4	150.6	150.9	151.1	151.4
Wind Direction - Deg.	235	258	281	304	327	350
Wind Speed - Kts.	15	14	13	12	11	10
Climb Heading - DEG.	090					

Flight No.	24					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	154.5	145.5	138	131	120.5	106.5
Indicated Altitude - Ft.	40535	41005	41510	42000	42505	42940
Time - Min and Sec.	1:53.5	1:57.5	2:01.5	2:06.7	2:13.5	2:24.5
Rocket On						
RPM * Indicates Flame Out	7893	7903	7918	7923	7933	7968
EGT - °C	742	742	752	762	767	782
Ambient Temperature - °C						
Fuel Count - Gal.	151.7	151.9	152.2	152.6	153.1	153.9
Wind Direction - Deg.	348	346	344	342	340	338
Wind Speed - Kts.	11.5	13.0	14.5	16.0	17.5	19.0
Climb Heading - DEG.	090					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	371	370.5	370.5	363	356	350
Indicated Altitude - Ft.	19995	19965	20610	21120	21620	22135
Time - Min and Sec.	0	8.5	18	21	23	25
Rocket On	✓	✓	✓	✓	✓	✓
RPM* Indicates Flame Out	7285	7780	7933	7928	7923	7923
EGT - °C	542	617	662	662	662	662
Ambient Temperature - °C	-18.0	—	-19.5	—	-21.5	—
Fuel Count - Gal.	161.9	163.2	164.9	165.3	165.7	166.0
Wind Direction - Deg.	080	080	079	078	077	076
Wind Speed - Kts.	10	10	10	10	10	10
Climb Heading - Deg.	270					

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	343.5	340	337.5	334.5	331.5	330.5
Indicated Altitude - Ft.	22615	23135	23625	24100	24610	25090
Time - Min and Sec.	26.8	28.8	30.3	32	34	36
Rocket On	✓	✓	✓	✓	✓	✓
RPM * Indicates Flame Out	7918	7938	7923	7933	7918	7913
EGT - °C	667	672	672	672	677	682
Ambient Temperature - °C	-24.0	—	-26.5	—	-29.0	—
Fuel Count - Gal.	166.3	166.6	166.8	167.1	167.4	167.7
Wind Direction - Deg.	075	074	073	072	071	070
Wind Speed - Kts.	10	10	10	10	10	10
Climb Heading - Deg.	270					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	327	324.5	321	318	314.5	311
Indicated Altitude - Ft.	25655	26130	26630	27135	27620	28110
Time - Min and Sec.	38	40.3	42.3	44.3	46.5	48.5
Rocket On	✓	✓	✓	✓	✓	✓
RPM* Indicates Flame Out	7918	7918	7908	7908	7903	7898
EGT - °C	682	682	682	687	682	692
Ambient Temperature - °C	-31.5	—	-34.0	—	-37.0	—
Fuel Count - Gal.	168.0	168.3	168.6	168.9	169.1	169.4
Wind Direction - Deg.	069	068	067	066	065	064
Wind Speed - Kts.	10	10	10	10	10	10
Climb Heading - Deg.	270					

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	307.5	304.5	300	295.5	291.5	290
Indicated Altitude - Ft.	28570	29115	29575	30085	30625	31130
Time - Min and Sec.	50.5	53.5	54.5	56.5	58.5	1:00.5
Rocket On	✓	✓	✓	✓	✓	✓
RPM * Indicates Flame Out	7898	7893	7888	7888	7888	7888
EGT - °C	692	697	697	702	702	702
Ambient Temperature - °C	-40.0	—	-43.0	—	-45.5	—
Fuel Count - Gal.	169.7	170.0	170.2	170.4	170.7	170.9
Wind Direction - Deg.	063	062	061	060	066	072
Wind Speed - Kts.	10	10	10	10	11	12
Climb Heading - Deg.	270					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	289.5	288	286	282.5	278.5	275.5
Indicated Altitude - Ft.	31615	32080	32560	33110	33540	34030
Time - Min and Sec.	1:02.5	1:04.5	1:06.5	1:08.5	1:10.4	1:12.4
Rocket On	✓	✓	✓	✓	✓	✓
RPM* Indicates Flame Out	7883	7878	7878	7873	7873	7873
EGT - °C	702	702	707	707	707	707
Ambient Temperature - °C	-48.0	—	-50.0	—	-52.5	—
Fuel Count - Gal.	171.2	171.4	171.7	171.9	172.1	172.3
Wind Direction - Deg.	078	084	090	096	102	108
Wind Speed - Kts.	13	14	15	16	17	18
Climb Heading - Deg.	270					

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	274	271	268	266.5	254.5	248.5
Indicated Altitude - Ft.	34580	35020	35490	36060	36500	37010
Time - Min and Sec.	1:14.7	1:16.7	1:18.7	1:20.7	1:23	1:25
Rocket On	✓	✓	✓			
RPM * Indicates Flame Out	7873	7868	7873	7903	7863	7868
EGT - °C	707	712	712	717	717	712
Ambient Temperature - °C	-54.3	—	-56.3	—	-58.2	
Fuel Count - Gal.	172.6	172.8	173.0	173.2	173.5	173.7
Wind Direction - Deg.	114	120	143	166	189	212
Wind Speed - Kts.	19	20	19	18	17	16
Climb Heading - Deg.	270					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	239.5	232.5	224.5	214.5	205.5	197
Indicated Altitude - Ft.	37515	38010	38520	39030	39500	39990
Time - Min and Sec.	1:27.3	1:29.3	1:31.3	1:34	1:36	1:38
Rocket On						
RPM* Indicates Flame Out	7853	7858	7863	7863	7863	7868
EGT - °C	712	712	707	712	717	722
Ambient Temperature - °C						
Fuel Count - Gal.	173.9	174.1	174.2	174.4	174.6	174.8
Wind Direction - Deg.	235	258	281	304	327	350
Wind Speed - Kts.	15	14	13	12	11	10
Climb Heading - Deg.	270					

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	188.5	177	167	157.5	150	143
Indicated Altitude - Ft.	40510	41025	41520	42040	42530	43000
Time - Min and Sec.	1:40	1:42.5	1:45	1:47	1:49.4	1:52.7
Rocket On						
RPM* Indicates Flame Out	7868	7878	7893	7903	7913	7923
EGT - °C	727	727	727	732	737	742
Ambient Temperature - °C						
Fuel Count - Gal.	174.9	175.1	175.3	175.5	175.6	175.8
Wind Direction - Deg.	348	346	344	342	340	338
Wind Speed - Kts.	11.5	13.0	14.5	16.0	17.5	19.0
Climb Heading - Deg.	270					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	25					
Wt. Engine Start - Lb.	15970					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	135.5	127	119.5	111.5	101.5	91
Indicated Altitude - Ft.	43530	44045	44550	45030	45575	46070
Time - Min and Sec.	1:54	1:56.5	1:59.3	2:02.3	2:05.5	2:09
Rocket On						
RPM* Indicates Flame Out	7943	7953	7968	7973	7993	8006
EGT - °C	747	757	762	767	772	782
Ambient Temperature - °C						
Fuel Count - Gal.	175.9	176.1	176.3	176.5	176.7	176.9
Wind Direction - Deg.	336	334	332	330	328	326
Wind Speed - Kts.	20.5	22.0	23.5	25.0	26.5	28.0
Climb Heading - DEG.	270					

Flight No.	25	25				
Wt. Engine Start - Lb.	15970	15970				
Fuel Density - Lb/Gal.	6.44	6.44				
Indicated Airspeed - Kts.	81.5	91				
Indicated Altitude - Ft.	46575	46850				
Time - Min and Sec.	2:13.7	2:19.7				
Rocket On						
RPM * Indicates Flame Out	8016	8016				
EGT - °C	792	802				
Ambient Temperature - °C						
Fuel Count - Gal.	177.2	177.6				
Wind Direction - Deg.	324	322				
Wind Speed - Kts.	29.5	31.0				
Climb Heading - DEG.	270	270				

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

USAF No. 51-2773

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	21					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	220	213	207.5	202.5	199.5	196
Indicated Altitude - Ft.	45575	46050	46545	47100	47650	48165
Time - Min and Sec.	:33.8	:36	:38.7	:41	:43.5	:46
Rocket On	✓	✓	✓	✓	✓	✓
RPM * Indicates Flame Out	7848	7848	7853	7823	7815	7818
EGT - °C	732	737	727	722	722	722
Ambient Temperature - °C	-63.1	—	-64.2	—	-65.2	—
Fuel Count - Gal.	289.2	289.3	289.5	289.7	289.8	290.0
Wind Direction - Deg.	350	350	350	350	350	350
Wind Speed - Kts.	24.5	24.0	23.5	23.0	22.5	22.0
Climb Heading - Deg.	270					

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CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR F-86E

USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	21					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	194	192.5	189	187	181.5	174.5
Indicated Altitude - Ft.	48665	49140	49650	50170	50720	51225
Time - Min and Sec.	1:48	1:50.3	1:52.7	1:55.2	1:58	1:00.3
Rocket On	✓	✓	✓	✓	✓	✓
RPM* Indicates Flame Out	7823	7833	7848	7863	7903	7913
EGT - °C	722	727	732	737	742	747
Ambient Temperature - °C	-66.2	—	-67.0	—	-67.3	—
Fuel Count - Gal.	290.1	290.3	290.4	290.6	290.7	290.9
Wind Direction - Deg.	350	350	350	350	350	350
Wind Speed - Kts.	21.5	21.0	20.5	20.0	19.0	18.0
Climb Heading - Deg.	270					

Flight No.	21					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	173	175.5	173.5	170	167	167.5
Indicated Altitude - Ft.	51730	52260	52790	53300	53700	53855
Time - Min and Sec.	1:02.6	1:04.8	1:07.8	1:10	1:12	1:12.5
Rocket On	✓	✓	✓	✓	✓	
RPM* Indicates Flame Out	7923	7933	7933	7938	7923	
EGT - °C	752	757	757	762		757
Ambient Temperature - °C	-67.6	—	-68.0	—	-68.5	—
Fuel Count - Gal.	291.0	291.1	291.3	291.4	291.5	291.5
Wind Direction - Deg.	350	350	350	350	350	350
Wind Speed - Kts.	17.0	16.0	15.0	14.0	13.0	12.0
Climb Heading - Deg.	270					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	21					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	164.5	159.5	154.5	148.5	147	145.5
Indicated Altitude - Ft.	54360	54875	55400	55930	56445	56600
Time - Min and Sec.	1:15	1:18	1:21.7	1:25.7	1:29	1:33
Rocket On						
RPM* Indicates Flame Out	*	*	*	*	*	*
EGT - °C	747	727	682	657	622	597
Ambient Temperature - °C	-68.8					
Fuel Count - Gal.	291.6	291.8	292.1	292.3	292.4	292.5
Wind Direction - Deg.	350	350	353	356	359	360
Wind Speed - Kts.	11.0	10.0	9.5	9.0	8.5	8.5
Climb Heading - Deg.	270					

Flight No.	22					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	224.5	224.5	230.5	230	229.5	223.5
Indicated Altitude - Ft.	41830	41850	42005	42525	43015	43515
Time - Min and Sec.	0	4.0	13.5	18.2	21.7	24.2
Rocket On	✓	✓	✓	✓	✓	✓
RPM * Indicates Flame Out	7868	7863	7868	7873	7873	7883
EGT - °C	NO	DATA				
Ambient Temperature - °C	-60.5	—	-60.6	—	-61.1	—
Fuel Count - Gal.	305.0	305.3	306.1	306.5	306.7	307.0
Wind Direction - Deg.	002	002	002	360	358	356
Wind Speed - Kts.	31.0	31.0	31.0	30.0	29	28
Climb Heading - Deg.	090					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

TEST DATA CORRECTED FOR INSTRUMENT ERROR							
F-86E		USAF No. 51-2773					
AUGMENTED CLIMBS							
No External Stores (Tank Dropped if Used for Initial Climb)							
Flight No.	22						
Wt. Engine Start - Lb.	16840						
Fuel Density - Lb/Gal.	6.44						
Indicated Airspeed - Kts.	217	210.5	205.5	205	205.5	206.5	
Indicated Altitude - Ft.	44060	44550	45035	45605	46110	46585	
Time - Min and Sec.	27	29	31.3	34	36.5	38.5	
Rocket On	✓	✓	✓	✓	✓	✓	
RPM* Indicates Flame Out	7898	7908	7903	7868	7868	7868	
EGT - °C	NO	DATA					
Ambient Temperature - °C	-61.6	—	-62.5	—	-63.1	—	
Fuel Count - Gal.	307.1	307.3	307.5	307.6	307.8	308.0	
Wind Direction - Deg.	354	352	350	350	350	350	
Wind Speed - Kts.	27.0	26	25	24.5	24.0	23.5	
Climb Heading - Deg.	090						
Flight No.	22						
Wt. Engine Start - Lb.	16840						
Fuel Density - Lb/Gal.	6.44						
Indicated Airspeed - Kts.	205	204	200.5	197.5	193.5	191	
Indicated Altitude - Ft.	47090	47645	48125	48640	49180	49690	
Time - Min and Sec.	41	45	47.5	50	53	56	
Rocket On	✓	✓	✓	✓	✓	✓	
RPM * Indicates Flame Out	7868	7873	7858	7853	7863	7868	
EGT - °C	NO	DATA					
Ambient Temperature - °C	-65.0	—	-65.8	—	-66.6	—	
Fuel Count - Gal.	308.1	308.4	308.5	308.7	308.9	309.0	
Wind Direction - Deg.	350	350	350	350	350	350	
Wind Speed - Kts.	23.0	22.5	22.0	21.5	21.0	20.5	
Climb Heading - Deg.	090						
Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket							

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	22					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	187	188.5	188.5	185.5	179.5	178
Indicated Altitude - Ft.	50180	50715	51225	51753	52265	52815
Time - Min and Sec.	58.5	1:01.4	1:04	1:07	1:10	1:12.5
Rocket On	✓	✓	✓	✓	✓	
RPM* Indicates Flame Out	7878	7893	7893	7848	7853	7868
EGT - °C	NO	DATA				
Ambient Temperature - °C	-67.0	—	-67.5	—	-67.8	—
Fuel Count - Gal.	309.2	309.4	309.5	309.7	309.8	310.0
Wind Direction - Deg.	350	350	350	350	350	350
Wind Speed - Kts.	20.0	19.0	18.0	17.0	16.0	14.0
Climb Heading - Deg.	090					

Flight No.	22					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	177.5	170	165	154.5	148.5	142
Indicated Altitude - Ft.	53310	53840	54350	54885	55380	55910
Time - Min and Sec.	1:14.4	1:18.2	1:21	1:25	1:28	1:31.8
Rocket On						
RPM* Indicates Flame Out	7898	7893	7828	7810	7820	7735
EGT - °C	NO	DATA				
Ambient Temperature - °C	-68.5	—	-68.8			
Fuel Count - Gal.	310.1	310.3	310.4	310.6	310.7	310.9
Wind Direction - Deg.	350	350	350	350	353	356
Wind Speed - Kts.	13	12	11	10	9.5	9.0
Climb Heading - Deg.	090					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	22					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	135	127	119	110	111.5	
Indicated Altitude - Ft.	56430	56960	57460	57995	58120	
Time - Min and Sec.	1:35.4	1:40	1:43.5	1:54	1:58.5	
Rocket On						
RPM* Indicates Flame Out	7669	7626	7702	1626	7626	
EGT - °C	NO	DATA				
Ambient Temperature - °C						
Fuel Count - Gal.	311.0	311.2	311.3	311.7	311.8	
Wind Direction - Deg.	359	002	005	008	008	
Wind Speed - Kts.	8.5	8.0	7.5	7.0	7.0	
Climb Heading - Deg.	090					

Flight No.	26					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	209.5	209.5	209	210	209	208
Indicated Altitude - Ft.	43535	43745	44025	44540	45045	45560
Time - Min and Sec.	0	10.7	13.7	18.5	22	25.7
Rocket On	✓	✓	✓	✓	✓	✓
RPM * Indicates Flame Out	7878	7883	7893	7903	7913	7918
EGT - °C	732	732	737	742	742	742
Ambient Temperature - °C	-63.4	—	-64.5	—	-65.3	—
Fuel Count - Gal.	317.0	317.8	318.0	318.4	318.6	318.9
Wind Direction - Deg.	219	228	236	253	270	273
Wind Speed - Kts.	8.5	8.5	9.0	9.5	10.0	10.5
Climb Heading - Deg.	340					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

CONFIDENTIAL

TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	26					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	203	202	200.5	200	203	202.5
Indicated Altitude - Ft.	46060	46575	47080	47610	47900	48100
Time - Min and Sec.	28.4	31.4	34.4	37.7	39.7	40.7
Rocket On	✓	✓	✓	✓	✓	✓
RPM* Indicates Flame Out	7848	7893	7918	7918	7923	7928
EGT - °C	742	742	742	747	747	747
Ambient Temperature - °C	-66.0	—	-66.8	—	-67.4	—
Fuel Count - Gal.	319.1	319.3	319.5	319.7	319.9	319.9
Wind Direction - Deg.	276	279	282	285	288	288
Wind Speed - Kts.	11.0	11.5	12.0	12.5	13.0	13.0
Climb Heading - Deg.	340					

Flight No.	26					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	199.5	195.5	193.5	192.5	191	191.5
Indicated Altitude - Ft.	48625	49130	49480	49650	50180	50690
Time - Min and Sec.	43.9	47.4	49.7	50.5	53.7	56.7
Rocket On	✓	✓	✓	✓	✓	✓
RPM* Indicates Flame Out	7928	7903	7908	7913	7918	7923
EGT - °C	752	752	752	752	757	757
Ambient Temperature - °C	-68.0	—	-69.0	—	-69.5	—
Fuel Count - Gal.	320.2	320.4	320.5	320.5	320.7	320.9
Wind Direction - Deg.	291	294	297	300	300	301
Wind Speed - Kts.	13.5	14.0	14.5	15.0	15.0	15.0
Climb Heading - Deg.	340					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	26					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	191.5	192	188	182.5	175.5	172.5
Indicated Altitude - Ft.	51215	51740	52270	52785	53320	53820
Time - Min and Sec.	59.7	1:02.9	1:06.2	1:09.2	1:11.7	1:14.2
Rocket On	✓	✓	✓	✓	✓	✓
RPM* Indicates Flame Out	7923	7903	7898	7918	7928	7948
EGT - °C	762	762	762	762	762	767
Ambient Temperature - °C	-70.6	—	-69.0	—	-68.2	—
Fuel Count - Gal.	321.1	321.3	321.5	321.6	321.8	321.9
Wind Direction - Deg.	302	304	305	306	307	308
Wind Speed - Kts.	15.0	15.0	15.0	15.0	15.0	15.0
Climb Heading - Deg.	340					

Flight No.	26					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	168.5	163	154.5	148.5	142.5	135
Indicated Altitude - Ft.	54350	54870	55400	55910	56430	56965
Time - Min and Sec.	1:16.9	1:19.7	1:23.4	1:26.2	1:29.2	1:33.2
Rocket On						
RPM * Indicates Flame Out	7933	7948	*	*	*	*
EGT - °C	767	772	772	767	762	762
Ambient Temperature - °C	-68.0					
Fuel Count - Gal.	322.0	322.2	322.3	322.4	322.6	
Wind Direction - Deg.	309	310	311	312	313	
Wind Speed - Kts.	15.0	15.0	15.0	15.0	15.0	15.0
Climb Heading - Deg.	340					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED CLIMBS

No External Stores (Tank Dropped if Used for Initial Climb)

Flight No.	26				
Wt. Engine Start - Lb.	16840				
Fuel Density - Lb/Gal.	6.44				
Indicated Airspeed - Kts.	126.5	116	113	127	
Indicated Altitude - Ft.	57480	58015	58520	58740	
Time - Min and Sec.	1:36.9	1:40.7	1:44.5	1:50	
Rocket On					
RPM * Indicates Flame Out	*	*	*	*	
EGT - °C	762	732	717	652	
Ambient Temperature - °C					
Fuel Count - Gal.	322.9	323.1	323.3	323.7	
Wind Direction - Deg.	315	316	317	318	
Wind Speed - Kts.	15.0	15.0	15.0	15.0	
Climb Heading - Deg.	340				

Flight No.					
Wt. Engine Start - Lb.					
Fuel Density - Lb/Gal.					
Indicated Airspeed - Kts.					
Indicated Altitude - Ft.					
Time - Min and Sec.					
Rocket On					
RPM * Indicates Flame Out					
EGT - °C					
Ambient Temperature - °C					
Fuel Count - Gal.					
Wind Direction - Deg.					
Wind Speed - Kts.					
Climb Heading					

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

UNAUGMENTED SPEED POWER

No External Stores (Tank Dropped if Used for Climb)

Flight No.	1					
Wt. Engine Start - Lb.	14851					
Fuel Density - Lb/Gal.	6.52					
Indicated Airspeed - Kts.	376.5	349.5	306.5	239	197.5	167.5
Indicated Altitude - Ft.	19905	19920	19945	19920	19900	19930
RPM	7316	7000	6637	6198	6180	5960
EGT - °C	542	472	402	342	363	342
Pt ₆ - PSI	16.734	14.784	12.502	10.22	10.22	9.568
Δ Fuel - Gal.						
Δ Time - Sec.						
Fuel Count - Gal.	178.3	187.6	198.3	204.5	210.1	218.3
Ambient Temperature - °C	-19					
Flight No.	1					
Wt. Engine Start - Lb.	14851					
Fuel Density - Lb/Gal.	6.52					
Indicated Airspeed - Kts.	154.5	308.5	353.5			
Indicated Altitude - Ft.	19970	20025	20045			
RPM	6150	6993	7312			
EGT - °C	363	503	560			
Pt ₆ - PSI	9.894	13.806	16.094			
Δ Fuel - Gal.						
Δ Time - Sec.						
Fuel Count - Gal.	221.2	243.0	262.0			
Ambient Temperature - °C	-19					

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

UNAugmented Speed Power

No External Stores (Tank Dropped if Used for Climb)

Flight No.	15					
Wt. Engine Start - Lb.	15800					
Fuel Density - Lb/Gal.	6.49					
Indicated Airspeed - Kts.	294.1	273.5	246.5	226.5	199.8	171.4
Indicated Altitude - Ft.	34665	34895	35250	35515	35970	36040
RPM	7883	7372	7055	6929	6892	6968
EGT - °C	692	542	502	462	462	502
Pt ₆ - PSI	21.68	20.59	19.52	18.48	18.12	17.57
Δ Fuel - Gal.	10.3	10	11.6	17.2	5.4	5
Δ Time - Sec.	156	125	174.5	288	96	88
Fuel Count - Gal.	205.7	235.0	260.4	285.1	315.0	339.0
Ambient Temperature - °C	-50.6	-50.9	-51.4	-51.8	-52.4	-52.3

Flight No.	15					
Wt. Engine Start - Lb.	15800					
Fuel Density - Lb/Gal.	6.49					
Indicated Airspeed - Kts.	151.4	229.6				
Indicated Altitude - Ft.	36405	36775				
RPM	7720	7045				
EGT - °C	682	482				
Pt ₆ - PSI	18.48	18.47				
Δ Fuel - Gal.	5	8.2				
Δ Time - Sec.	64.5	132.5				
Fuel Count - Gal.	371.5	408.3				
Ambient Temperature - °C	-52.9	-53.7				

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

MILITARY POWER LEVEL WIND-UP TURNS

No External Stores (Tank Dropped if Used for Climb)

Flight No.	7					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	241.5	232.7	231.7	232.7	223.5	224.5
Indicated Altitude - Ft.	39575	39380	39380	39210	39230	39180
Load Factor - g	2.08	1.60	1.52	1.64	1.48	1.48
Time - Min and Sec.	10	21	27	33	51	57
Ambient Temperature - °C	-52.5					
Fuel Count - Gal.	243	244	244.5	245	246.5	247

Flight No.	7					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	219.5	211.0	206.0	198.5	194.5	192.0
Indicated Altitude - Ft.	39045	39090	38935	38945	38980	38845
Load Factor - g	1.44	1.52	1.56	1.44	1.40	1.36
Time - Min and Sec.	1:15	1:30	1:39	1:46	1:51	1:58
Ambient Temperature - °C	-52.5					
Fuel Count - Gal.	248.5	249.7	250.5	251	251.4	252

Flight No.						
Wt. Engine Start - Lb.						
Fuel Density - Lb/Gal.						
Indicated Airspeed - Kts.						
Indicated Altitude - Ft.						
Load Factor - g						
Time - Min and Sec.						
Ambient Temperature - °C						
Fuel Count - Gal.						

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

MILITARY POWER LEVEL WIND-UP TURNS

No External Stores (Tank Dropped if Used for Climb)

Flight No.	11					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	319.5	305.5	293.1	287.1	282.4	281.4
Indicated Altitude - Ft.	29785	29915	30030	30050	30065	30045
Load Factor - g	1.793	2.03	3.056	2.545	2.308	2.345
Time - Min and Sec.	0	10	23	26	32	37
Ambient Temperature - °C	-41					
Fuel Count - Gal.	170.0	171.2	172.8	173.3	173.9	174.5

Flight No.	11					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	277.0	273.7	268.5	263.5	258.0	253.5
Indicated Altitude - Ft.	30015	30010	30005	29960	29925	29965
Load Factor - g	2.426	2.426	2.347	2.353	2.072	1.794
Time - Min and Sec.	44	49	57	1:07.5	1:10	1:15
Ambient Temperature - °C	-41					
Fuel Count - Gal.	175.4	175.9	176.9	177.5	178.4	178.9

Flight No.						
Wt. Engine Start - Lb.						
Fuel Density - Lb/Gal.						
Indicated Airspeed - Kts.						
Indicated Altitude - Ft.						
Load Factor - g						
Time - Min and Sec.						
Ambient Temperature - °C						
Fuel Count - Gal.						

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

MILITARY POWER LEVEL WIND-UP TURNS

No External Stores (Tank Dropped if Used for Climb)

Flight No.	23					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	237	218	208	174	158	148.5
Indicated Altitude - Ft.	39720	39805	39240	39115	39170	39270
Load Factor - g	1.873	1.728	1.800	1.400	1.255	1.1091
Time - Min and Sec.	0	12.5	31	52.5	59.8	1106
Ambient Temperature - °C	-61.0					
Fuel Count - Gal.	256.9	257.9	259.5	261.3	261.8	262.3
Flight No.	23					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	140	149.5				
Indicated Altitude - Ft.	39250	38735				
Load Factor - g	1.0728	1.708				
Time - Min and Sec.	1:12.8	1:23.5				
Ambient Temperature - °C	-61.0					
Fuel Count - Gal.	262.8	263.7				
Flight No.						
Wt. Engine Start - Lb.						
Fuel Density - Lb/Gal.						
Indicated Airspeed - Kts.						
Indicated Altitude - Ft.						
Load Factor - g						
Time - Min and Sec.						
Ambient Temperature - °C						
Fuel Count - Gal.						

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

AUGMENTED LEVEL WIND-UP TURNS

No External Stores (Tank Dropped if Used for Climb)

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

Flight No.	11					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	295.8	300.0	306.5	309.5	310.5	310.5
Indicated Altitude - Ft.	29910	30065	30085	30085	30085	30135
Load Factor - g	3.18	3.239	3.655	3.734	3.773	3.892
Time - Min and Sec.	9	13.5	17	22	25	30
Ambient Temperature - °C	-42.0					
Fuel Count - Gal.	195.5	196	196.5	197	197.5	198

Flight No.	11					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	312.5	318.5	323.9	323.3	319.5	317.5
Indicated Altitude - Ft.	30170	30180	30180	30180	30305	30480
Load Factor - g	3.576	3.458	3.655	3.813	3.852	3.970
Time - Min and Sec.	33.5	38	41	45	49	53
Ambient Temperature - °C	-42.0					
Fuel Count - Gal.	198.5	199	199.5	200	200.5	201

Flight No.	11					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	318.0	319.5	317.5			
Indicated Altitude - Ft.	30585	30560	30530			
Load Factor - g	4.210	4.289	4.450			
Time - Min and Sec.	57	1:01.5	1:04			
Ambient Temperature - °C	-42.0					
Fuel Count - Gal.	201.5	202	202.5			

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED LEVEL WIND-UP TURNS

No External Stores (Tank Dropped if Used for Climb)

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

Flight No.	23					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	246	260.5	273.5	278.5	276.5	275
Indicated Altitude - Ft.	39705	39715	39700	39680	39685	39660
Load Factor - g	.8928	1.00	1.464	2.25	2.428	2.822
Time - Min and Sec.	8.6	13.7	19.3	24.3	29.8	36.1
Ambient Temperature - °C	-61.1					
Fuel Count - Gal.	312.5	313	313.5	314	314.5	315
Flight No.	23					
Wt. Engine Start - Lb.	16840					
Fuel Density - Lb/Gal.	6.44					
Indicated Airspeed - Kts.	268.5	265.5	247.5	223		
Indicated Altitude - Ft.	39580	39610	39720	40210		
Load Factor - g	2.607	3.555	3.555	2.68		
Time - Min and Sec.	45.8	51.3	57.2	1:02.8		
Ambient Temperature - °C	-61.1					
Fuel Count - Gal.	316	316.5	317	317.5		
Flight No.						
Wt. Engine Start - Lb.						
Fuel Density - Lb/Gal.						
Indicated Airspeed - Kts.						
Indicated Altitude - Ft.						
Load Factor - g						
Time - Min and Sec.						
Ambient Temperature - °C						
Fuel Count - Gal.						

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

MILITARY POWER LEVEL ACCELERATIONS

No External Stores (Tank Dropped if Used for Climb)

Flight No.	4					
Wt. Engine Start - Lb.	16001					
Fuel Density - Lb/Gal.	6.55					
Indicated Airspeed - Kts.	293	300	303.5	309.5	318	326.5
Indicated Altitude - Ft.	19480	19490	19480	19480	19480	19550
Time - Min and Sec.	0	10	18	26	36.8	45
RPM	7925	7921	7932	7942	7940	7943
Ambient Temperature - °C	-21.2					
Fuel Count - Gal.	127.2	128.7	130.0	131.3	133.1	134.5
Flight No.	4					
Wt. Engine Start - Lb.	16001					
Fuel Density - Lb/Gal.	6.55					
Indicated Airspeed - Kts.	329	335.5	340.5	345.5	352	356
Indicated Altitude - Ft.	19525	19510	19520	19495	19520	19510
Time - Min and Sec.	50	58	1:05.7	1:12.5	1:22	1:28
RPM	7943	7948	7954	7961	7964	7962
Ambient Temperature - °C	-12.1					
Fuel Count - Gal.	135.4	136.7	138.0	139.2	140.8	141.9
Flight No.	4				5	
Wt. Engine Start - Lb.	16001				15997	
Fuel Density - Lb/Gal.	6.55				6.54	
Indicated Airspeed - Kts.	360.5	365	369.5	374	2646	281.5
Indicated Altitude - Ft.	19505	19490	19490	19470	19440	19340
Time - Min and Sec.	1:35.8	1:43.8	1:51.2	1:58.9	0	20
RPM	7964	7968	7968	7966	5928	7938
Ambient Temperature - °C	-19.8				-17.2	-17.2
Fuel Count - Gal.	143.2	144.7	146.1	147.4	135.1	138

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

MILITARY POWER LEVEL ACCELERATIONS

No External Stores (Tank Dropped if Used for Climb)

Flight No.	5					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	297.5	308.5	315.5	326.0	329.3	333.4
Indicated Altitude - Ft.	19330	19310	19330	19330	19350	19345
Time - Min and Sec.	34	46	55	1:04	1:10	1:16
RPM	7923	7918	7918	7918	7913	7913
Ambient Temperature - °C	-17.2					
Fuel Count - Gal.	140.2	142.1	143.6	145	146.1	147

Flight No.	5					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	338.5	344.5	347.5	349.5	354.4	357.3
Indicated Altitude - Ft.	19330	19330	19320	19330	19320	19325
Time - Min and Sec.	1:22	1:28	1:33	1:38.5	1:45	1:50
RPM	7923	7928	7923	7928	7933	7938
Ambient Temperature - °C	-17.2					
Fuel Count - Gal.	148	149	149.8	150.7	151.8	152.7

Flight No.	5				10	
Wt. Engine Start - Lb.	15997				15997	
Fuel Density - Lb/Gal.	6.54				6.54	
Indicated Airspeed - Kts.	361	364.8	368.6	372.5	214.5	219.5
Indicated Altitude - Ft.	19330	19320	19330	19290	27890	27920
Time - Min and Sec.	1:57.5	2:06	2:12	2:20	0	15.7
RPM	7938	7938	7943	7943	7883	7883
Ambient Temperature - °C	-17.2				-37.0	
Fuel Count - Gal.	154.1	155.5	156.7	158	160.1	161.9

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

MILITARY POWER LEVEL ACCELERATIONS

No External Stores (Tank Dropped if Used for Climb)

Flight No.	10					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	224	228	234	238	242	245.5
Indicated Altitude - Ft.	27930	27900	27945	27890	27920	27945
Time - Min and Sec.	27.8	39.2	49.2	1:00.4	1:06	1:11.2
RPM	7883	7883	7888			
Ambient Temperature - °C	-37.0					
Fuel Count - Gal.	163.3	164.6	165.9	167.2	167.9	168.5

Flight No.	10					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	251	256	261.5	266	272	278
Indicated Altitude - Ft.	27955	27945	27920	27935	27900	27935
Time - Min and Sec.	1:21.2	1:32.5	1:42.5	1:52.2	2:02.1	2:11.4
RPM	7888	7893	7893	7898	7893	7893
Ambient Temperature - °C	-37.0					
Fuel Count - Gal.	169.7	171.1	172.4	173.6	174.9	176.1

Flight No.	18					
Wt. Engine Start - Lb.	15975					
Fuel Density - Lb/Gal.	6.47					
Indicated Airspeed - Kts.	256	264.5	269.0	274.6	278.5	284
Indicated Altitude - Ft.	29620	29630	29550	29645	29610	29645
Time - Min and Sec.	0	20	29	42	48	1:03
RPM	7785	7888				7893
Ambient Temperature - °C	-45.0					
Fuel Count - Gal.	155.2	157.6	158.7	160.2	160.9	162.8

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

MILITARY POWER LEVEL ACCELERATIONS

No External Stores (Tank Dropped if Used for Climb)

Flight No.	18					8
Wt. Engine Start - Lb.	15975					16887
Fuel Density - Lb/Gal.	6.47					6.54
Indicated Airspeed - Kts.	293.6	299.6	308.1	317.3	324	199.5
Indicated Altitude - Ft.	29595	29685	29700	29610	29600	39680
Time - Min and Sec.	1:19	1:37	1:59	2:18.5	2:42	0
RPM	7893	7898	7893	7893	7898	7768
Ambient Temperature - °C	-45.0					-58.0
Fuel Count - Gal.	164.8	167.1	169.9	172.4	175.5	248
Flight No.	8					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	202.5	207	211	214.5	219	222.5
Indicated Altitude - Ft.	39715	39610	39630	39630	39605	39615
Time - Min and Sec.	19.5	45.5	1:11.1	1:37	1:52.2	2:25.1
RPM	7868	7866	7868	7868	7868	7865
Ambient Temperature - °C	-58.0					
Fuel Count - Gal.	249.5	251.7	253.8	255.5	257.2	259.9
Flight No.	8					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	226.5	230.5	233.5			
Indicated Altitude - Ft.	39580	39565	39520			
Time - Min and Sec.	2:42.8	2:58.6	3:14.2			
RPM	7866	7860	7863			
Ambient Temperature - °C	-58.0					
Fuel Count - Gal.	261.4	262.8	264.1			

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TEST DATA CORRECTED FOR INSTRUMENT ERROR

F-86E

USAF No. 51-2773

AUGMENTED LEVEL ACCELERATIONS

No External Stores (Tank Dropped if Used for Climb)

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

Flight No.	6					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	277.5	280.5	287	296	303.5	311.5
Indicated Altitude - Ft.	19590	19590	19640	19655	19620	19590
Time - Min and Sec.	0	2	4	6	8	10
RPM	7463	7475	7465			
Ambient Temperature - °C	-16.0					
Fuel Count - Gal.	138.0	138.3	138.6	138.8	139.0	139.3

Flight No.	6					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	320	328	335.5	342	350.5	357
Indicated Altitude - Ft.	19575	19570	19560	19555	19575	19605
Time - Min and Sec.	12	14	16	18	21	23
RPM	7470	7465	7470	7465	7460	7470
Ambient Temperature - °C	-16.0					
Fuel Count - Gal.	139.6	139.9	140.1	140.4	140.7	141.0

Flight No.	6					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	363.5	371.5	378.5	384	390	397
Indicated Altitude - Ft.	19605	19580	19580	19605	19625	19630
Time - Min and Sec.	25	27	29	31	33	35
RPM	7455				7465	7470
Ambient Temperature - °C	-16.0					
Fuel Count - Gal.	141.3	141.6	141.9	142.2	142.5	142.8

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED LEVEL ACCELERATIONS

No External Stores (Tank Dropped if Used for Climb)
Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

Flight No.	6					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	404	409.5	414	417	420.5	423
Indicated Altitude - Ft.	19585	19550	19555	19595	19630	19640
Time - Min and Sec.	37	39	41	43	45	47
RPM	7465	7480	7500	7485	7480	7480
Ambient Temperature - °C	-16.0					
Fuel Count - Gal.	143.1	143.4	143.7	144.0	144.3	144.6
Flight No.	6					
Wt. Engine Start - Lb.	15997					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	425.5	427	427.5	428.5	431	431.5
Indicated Altitude - Ft.	19660	19680	19690	19670	19645	19640
Time - Min and Sec.	49	51	53	55	57	59
RPM	7485	7485	7480	7485	7480	7480
Ambient Temperature - °C	-16.0					
Fuel Count - Gal.	144.9	145.2	145.6	145.9	146.2	146.5
Flight No.	6			18		
Wt. Engine Start - Lb.	15997			15975		
Fuel Density - Lb/Gal.	6.54			6.47		
Indicated Airspeed - Kts.	432.5	432.5	433	252.5	253.6	261.5
Indicated Altitude - Ft.	19620	19620	19630	29550	29535	29485
Time - Min and Sec.	1:01	1:03	1:05	0	3	7
RPM	7480	7480	7480	7868	7888	7898
Ambient Temperature - °C	-16.0			-44.8	-44.8	-44.7
Fuel Count - Gal.	146.8	147.1	147.4	197.6	198.0	198.5

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED LEVEL ACCELERATIONS

No External Stores (Tank Dropped if Used for Climb)
Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

Flight No.	18					
Wt. Engine Start - Lb.	15975					
Fuel Density - Lb/Gal.	6.47					
Indicated Airspeed - Kts.	276.5	289	300.1	314.7	329	339
Indicated Altitude - Ft.	29410	29400	29550	29595	29575	29535
Time - Min and Sec.	11	15	19	22.5	26	30
RPM	7898	7903	7918	7913	7913	7908
Ambient Temperature - °C	-44.7	-44.7	-44.9	-45.0	-45.0	-45.0
Fuel Count - Gal.	199	199.5	200	200.5	201	201.5

Flight No.	18					
Wt. Engine Start - Lb.	15975					
Fuel Density - Lb/Gal.	6.47					
Indicated Airspeed - Kts.	345.5	350.4	355.7	358.1	360.8	362.7
Indicated Altitude - Ft.	29615	29800	29845	29850	29870	29830
Time - Min and Sec.	33.5	37	40	44	48	51
RPM	7918	7943	7913	7908	7908	7908
Ambient Temperature - °C	-45.1	-45.3	-45.3	-45.3	-45.4	-45.4
Fuel Count - Gal.	202	202.5	203	203.5	204	204.5

Flight No.	18					
Wt. Engine Start - Lb.	15975					
Fuel Density - Lb/Gal.	6.47					
Indicated Airspeed - Kts.	363.7	363.7	363			
Indicated Altitude - Ft.	29780	29790	29765			
Time - Min and Sec.	55	59	1:02			
RPM	-45.3	-45.3	-45.3			
Ambient Temperature - °C	7903	7908	7903			
Fuel Count - Gal.	205	205.5	206			

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED LEVEL ACCELERATIONS

No External Stores (Tank Dropped if Used for Climb)

Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

Flight No.	8					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	190.5	189	189.5	193	196.5	201
Indicated Altitude - Ft.	39540	39550	39560	39610	39705	39770
Time - Min and Sec.	0	2	4	6	8.2	10.3
RPM	7880	7868	7863	7873	7878	7883
Ambient Temperature - °C	-58.5					
Fuel Count - Gal.	277.2		277.5		277.9	
Flight No.	8					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	206.5	213	219.5	226	232	239
Indicated Altitude - Ft.	39810	39825	39825	39810	39765	39745
Time - Min and Sec.	12.3	14.3	16.3	18.3	20.4	22.6
RPM	7888	7883				7888
Ambient Temperature - °C	-58.5					
Fuel Count - Gal.	278.2		278.5		278.9	
Flight No.	8					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	246	252.5	258.5	264.5	270.5	275.5
Indicated Altitude - Ft.	39720	39680	39650	39620	39600	39575
Time - Min and Sec.	24.7	26.7	28.6	30.6	32.9	35.1
RPM	7883	7888				
Ambient Temperature - °C	-58.5					
Fuel Count - Gal.	279.2		279.6		280.0	

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TEST DATA CORRECTED FOR INSTRUMENT ERROR
F-86E USAF No. 51-2773

AUGMENTED LEVEL ACCELERATIONS

No External Stores (Tank Dropped if Used for Climb)
Approximately 1400 Pounds of Acid and JP-4 are Burned by the Rocket

Flight No.	8					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	280.5	284.5	288.5	292	294	295
Indicated Altitude - Ft.	39540	39510	39495	39460	39430	39400
Time - Min and Sec.	37.1	38.9	40.9	42.9	45.1	47.1
RPM	7888			7883	7873	7873
Ambient Temperature - °C	-58.5					
Fuel Count - Gal.	280.3		280.7		281.1	

Flight No.	8					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	297	297.5	298	298.5	299.5	298.5
Indicated Altitude - Ft.	39365	39315	39290	39270	39230	39170
Time - Min and Sec.	49.1	51.0	52.9	54.9	57.1	59.1
RPM	7873					7884
Ambient Temperature - °C	-58.5					
Fuel Count - Gal.	281.5		281.9		282.3	

Flight No.	8					
Wt. Engine Start - Lb.	16887					
Fuel Density - Lb/Gal.	6.54					
Indicated Airspeed - Kts.	294.5	291.5	287.5	284	282.5	281.5
Indicated Altitude - Ft.	39130	39250	39260	39365	39410	39420
Time - Min and Sec.	1:01.0	1:03.1	1:05.1	1:07.3	1:09.3	1:10.6
RPM	7868	7863	7863	7868	7873	7868
Ambient Temperature - °C	-58.5					
Fuel Count - Gal.	282.7		283.1		283.4	283.6

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE MATERIEL COMMAND
WRIGHT-PATTERSON AIR FORCE BASE OHIO

FEB 19 2002

MEMORANDUM FOR DTIC/OCQ (ZENA ROGERS)
8725 JOHN J. KINGMAN ROAD, SUITE 0944
FORT BELVOIR VA 22060-6218

FROM: AFMC CSO/SCOC
4225 Logistics Avenue, Room S132
Wright-Patterson AFB OH 45433-5714

SUBJECT: Technical Reports Cleared for Public Release

References: (a) HQ AFMC/PAX Memo, 26 Nov 01, Security and Policy Review,
AFMC 01-242 (Atch 1)

(b) HQ AFMC/PAX Memo, 19 Dec 01, Security and Policy Review,
AFMC 01-275 (Atch 2)

— — — — —> (c) HQ AFMC/PAX Memo, 17 Jan 02, Security and Policy Review,
AFMC 02-005 (Atch 3)

1. Technical reports submitted in the attached references listed above are cleared for public release in accordance with AFI 35-101, 26 Jul 01, *Public Affairs Policies and Procedures*, Chapter 15 (Cases AFMC 01-242, AFMC 01-275, & AFMC 02-005).

2. Please direct further questions to Lezora U. Nobles, AFMC CSO/SCOC, DSN 787-8583.

LEZORA U. NOBLES
AFMC STINFO Assistant
Directorate of Communications and Information

Attachments:

1. HQ AFMC/PAX Memo, 26 Nov 01
2. HQ AFMC/PAX Memo, 19 Dec 01
3. HQ AFMC/PAX Memo, 17 Jan 02

cc:
HQ AFMC/HO (Dr. William Elliott)



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS AIR FORCE MATERIEL COMMAND
WRIGHT-PATTERSON AIR FORCE BASE OHIO

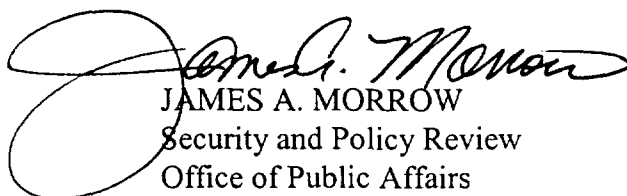
JAN 17 2002

MEMORANDUM FOR HQ AFMC/HO

FROM: HQ AFMC/PAX

SUBJECT: Security and Policy Review, AFMC 02-005

1. The reports listed in your attached letter were submitted for security and policy review IAW AFI 35-101, Chapter 15. They have been cleared for public release.
2. If you have any questions, please call me at 77828. Thanks.


JAMES A. MORROW
Security and Policy Review
Office of Public Affairs

Attachment:
Your Ltr 14 January 2002

14 January 2002

MEMORANDUM FOR: HQ AFMC/PAX
Attn: Jim Morrow

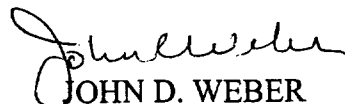
FROM: HQ AFMC/HO

SUBJECT: Releasability Reviews

1. Please conduct public releasability reviews for the following attached Defense Technical Information Center (DTIC) reports:
 - a. *Flight Test Program for Model P-86 Airplane Class – Jet Propelled Fighter*, 2 December 1946; DTIC No. AD-B804 069.
 - b. *Physiological Recognition of Strain in Flying Personnel: Eosinopenia in F-86 Combat Operations*, September 1953; DTIC No. AD- 020 375.
 - c. *Phase IV Performance Test of the F-86F-40 Airplane Equipped with 6x3-inch Leading Edge Slats and 12-inch Extensions on the Wing Tips*, May 1956; DTIC No. AD- 096 084.
 - d. *F-86E Thrust Augmentation Evaluation*, March 1957; DTIC No. AD- 118 703.
 - e. *F-86E Thrust Augmentation Evaluation*, Appendix IV, March 1957; DTIC No. AD- 118 707.
 - f. *A Means of Comparing Fighter Effectiveness in the Approach Phase*, October 1949; DTIC No. AD- 223 596.
 - g. *War Emergency Thrust Augmentation for the J47 Engine in the F-86 Aircraft*, August 1955; DTIC No. AD- 095 757.
 - h. *Operational Suitability Test of the F-86F Airplane*, 4 May 1953; DTIC No. AD- 017 568.
 - i. *Estimated Aerodynamic Characteristics for Design of the F-86E Airplane*, 26 December 1950; DTIC No. AD- 069 271.
 - j. *Combat Suitability Test of F-86F-2 Aircraft with T-160 Guns*, August 1953; DTIC No. AD- 019 725.

2. These attachments have been requested by Dr. Kenneth P. Werrell, a private researcher.

3. The AFMC/HO point of contact for these reviews is Dr. William Elliott, who may be reached at extension 77476.


JOHN D. WEBER
Command Historian

10 Attachments:

- a. DTIC No. AD-B804 069
- b. DTIC No. AD- 020 375
- c. DTIC No. AD- 096 084
- d. DTIC No. AD- 118 703
- e. DTIC No. AD- 118 707
- f. DTIC No. AD- 223 596
- g. DTIC No. AD- 095 757
- h. DTIC No. AD- 017 568
- i. DTIC No. AD- 069 271
- j. DTIC No. AD- 019 725