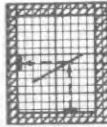


PERFORMANCE DATA**APPENDIX A**

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DENSITY ALTITUDE

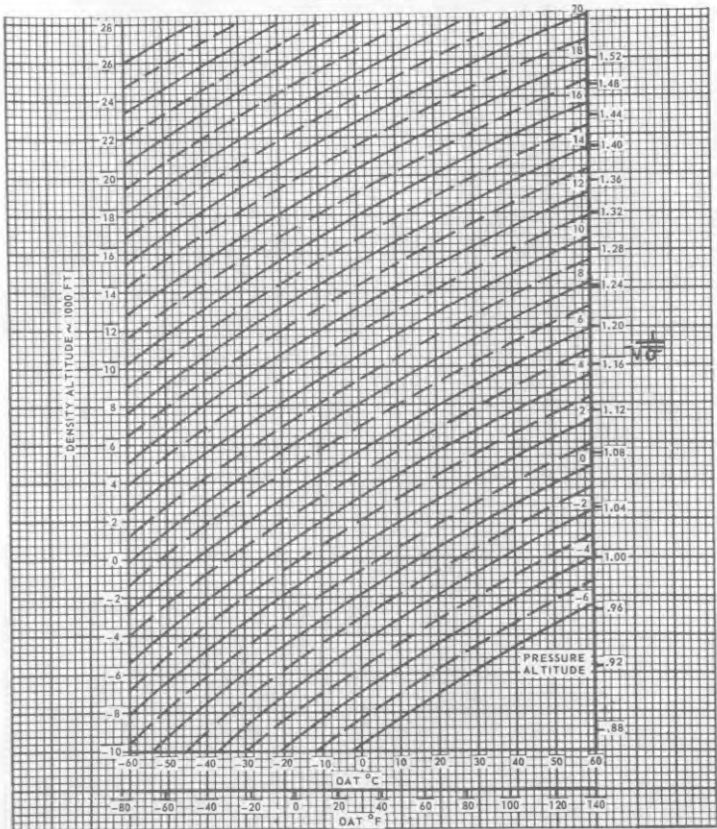


Figure PA-1. Density Altitude

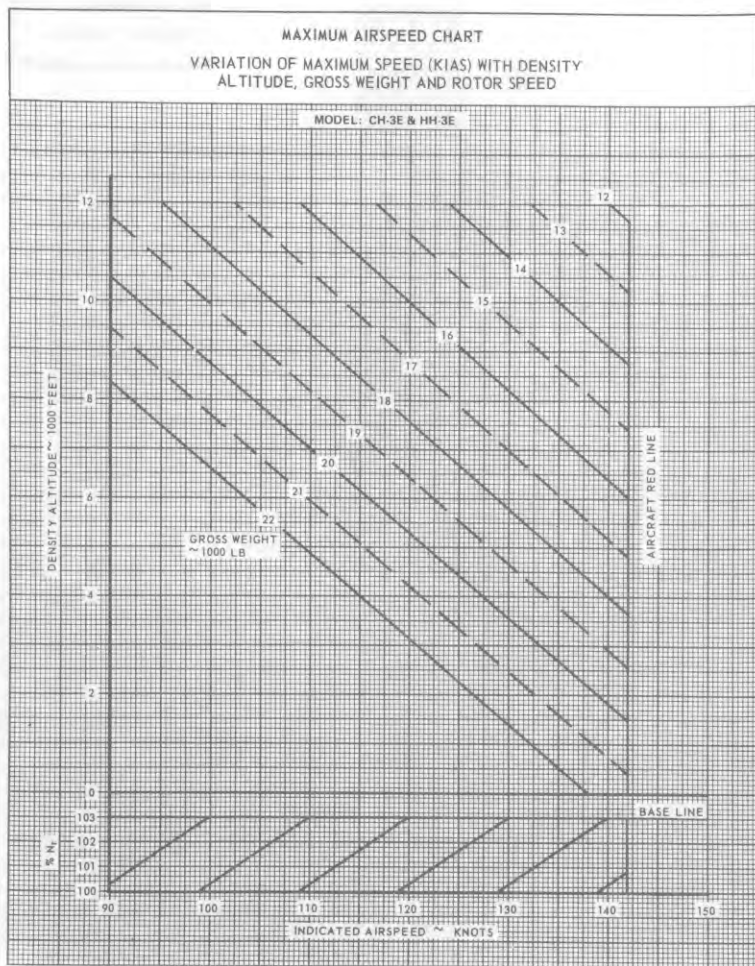


Figure PA-2. Maximum Airspeed Chart

MAXIMUM POWER AVAILABLE

ONE ENGINE

MODEL
CH/HH-3E

ENGINE
T58-GE-5



**CONDITIONS:
HOVER ZERO WIND
ZERO AIRSPEED
FOR SHIELD ON OR OFF
MAXIMUM POWER**

DATE: 15 APRIL 1971

DATA BASIS: ENG MFG SPEC E1096-A

NO WIND TO 3 KNOTS

WITH WIND or FORWARD FLIGHT

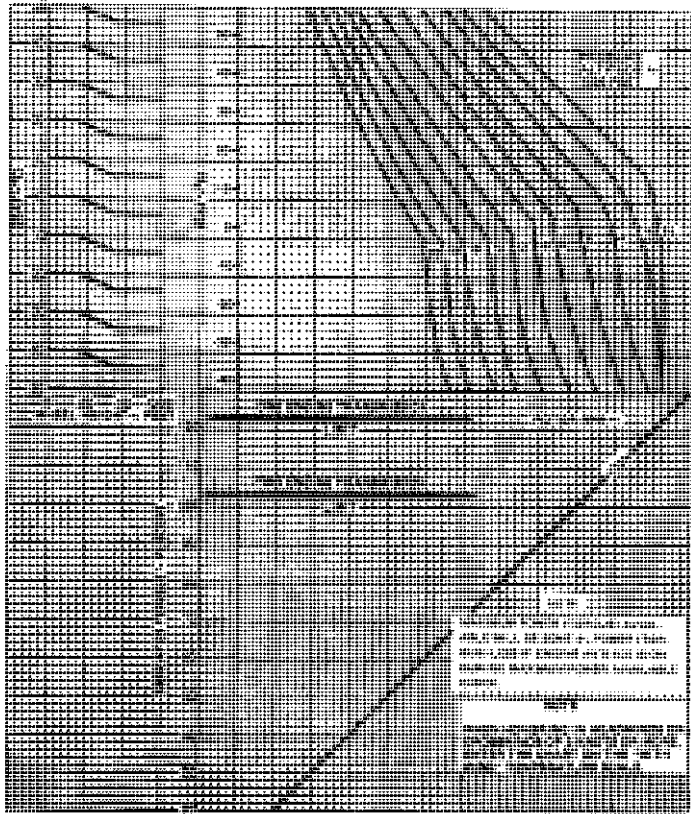
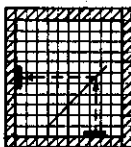


Figure PA-3. Maximum Power Available - 5 Minute Limit - One Engine

T.O. 1H-3(C)E-1CL-1

CONDITIONS:
ZERO AIRSPEED
FOD SHIELD ON OR OFF
0°C OAT
103% N₁



INDICATED TORQUE VS FUEL FLOW

ONE ENGINE

MODEL
CH/HH-3E

ENGINE
T58-GE-5

DATE: 15 APRIL 1971

DATA BASIS: ENG MFG SPEC E1096-A

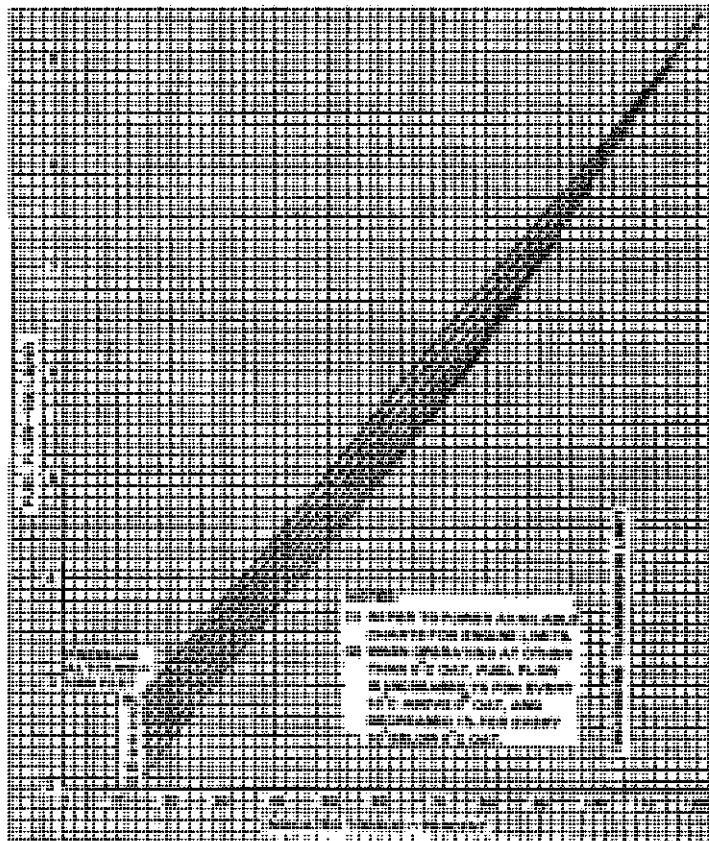


Figure PA-4. Indicated Torque vs Fuel Flow - One Engine

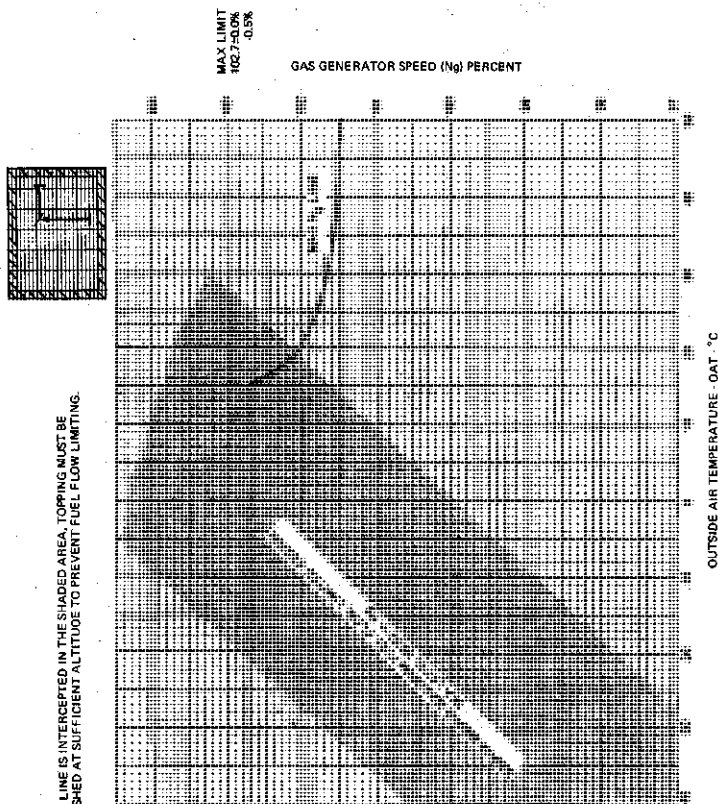


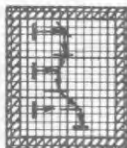
Figure PA-5. Topping Chart (T58-GE-5)

MAXIMUM GROSS WEIGHT FOR HOVERING

TWO ENGINES

MODEL
CH/HH-3E

ENGINE
T58-GE-5



CONDITIONS:
MAXIMUM POWER
ZERO AIRSPEED
FOD SHIELD ON OR OFF

DATE: 15 APRIL 1971

DATA BASIS: FLIGHT TEST (AIR FORCE)

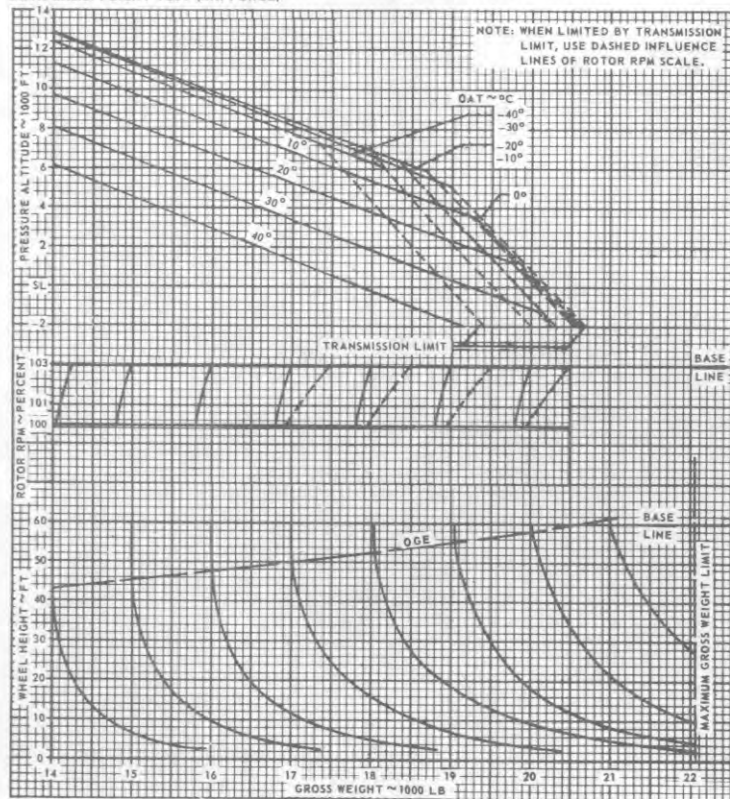


Figure PA-6. Maximum Gross Weight for Hovering - Zero Wind - Two Engines

HEADWIND INFLUENCE ON MAXIMUM GROSS WEIGHT FOR HOVERING

TWO ENGINES

MODEL

ENGINE

CH/HH-3E

T58-GE-5

DATE: 1 JULY 1974
DATA BASIS: ESTIMATED

NOTE: WEIGHT CORRECTION FOR
HEADWINDS LESS THAN
3 KNOTS IS NEGLIGIBLE

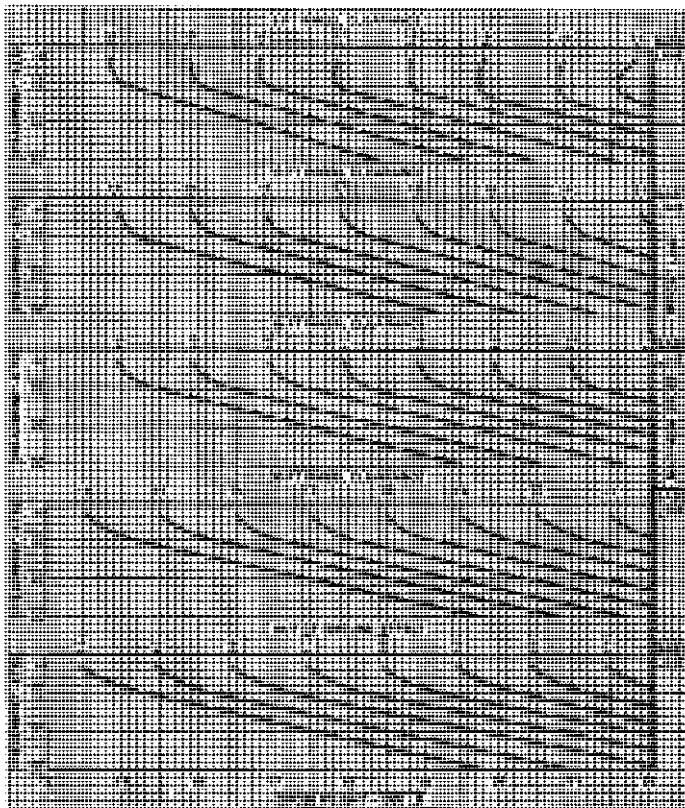
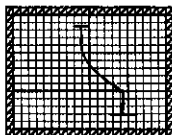
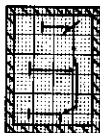


Figure PA-7. Headwind Influence on Maximum Gross Weight for Hovering

T.O. 1H-3(C)E-1CL-1

CONDITIONS:
HOVER, ZERO AIRSPEED,
FOOD SHIELD ON OR OFF

DATE: 15 APRIL 1971
DATA BASIS: FLIGHT TEST



TORQUE REQUIRED TO HOVER

TWO ENGINES
MODEL: CH/MH-3E ROTOR RPM 103 PERCENT ENGINE: T58-GE-6

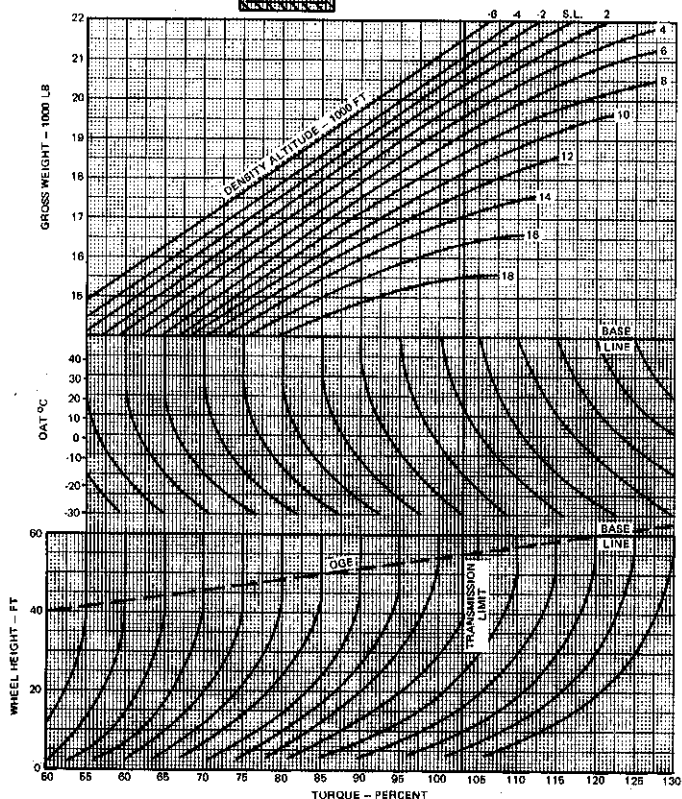
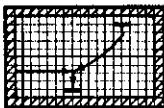


Figure PA-8. Torque Required to Hover - Zero Wind -
Two Engines

CONDITIONS:
HOVER WITH WIND



HEADWIND INFLUENCE ON TORQUE REQUIRED FOR HOVERING

MODEL

TWO ENGINES

ENGINE

CH/MH-3E

T58-GE-5

DATE: 15 APRIL 1971

DATA BASIS: ESTIMATED

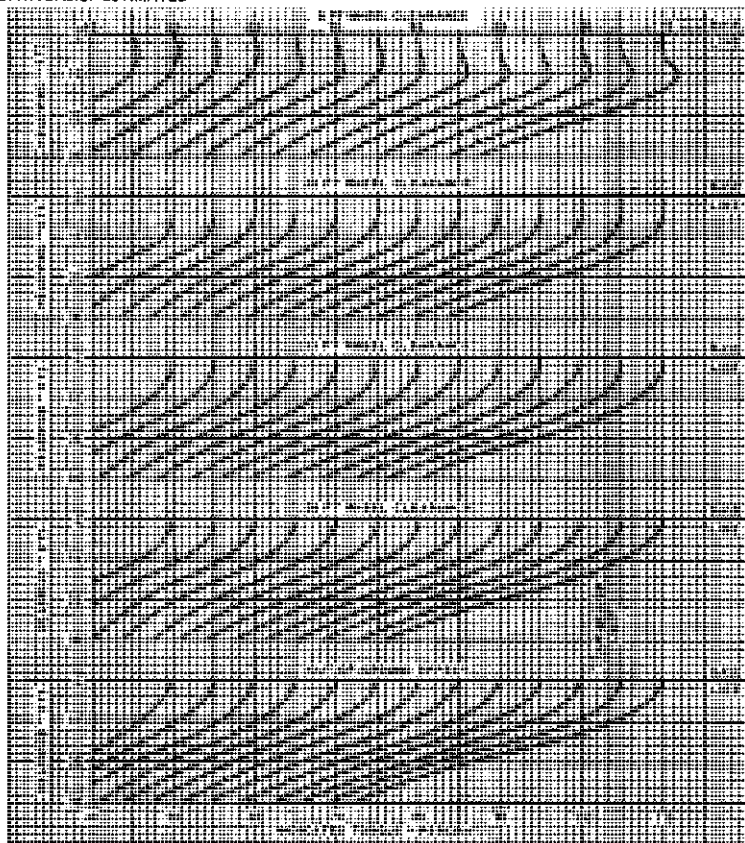
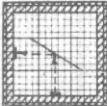


Figure PA-9. Headwind Influence on Torque Required to Hover

T.O. 1H-3(C)E-1CL-1

SERVICE CEILING
TWO ENGINES
MODEL CH/HH-3E ENGINE T58-GE-5

DATE: 15 APRIL 1971
DATA BASIS: FLIGHT TEST (AIR FORCE)



CONDITIONS:
MAXIMUM CONTINUOUS POWER
103% N₁
BEST CLIMB SPEED
FOD SHIELD ON OR OFF
100 FT/MIN RATE OF CLIMB

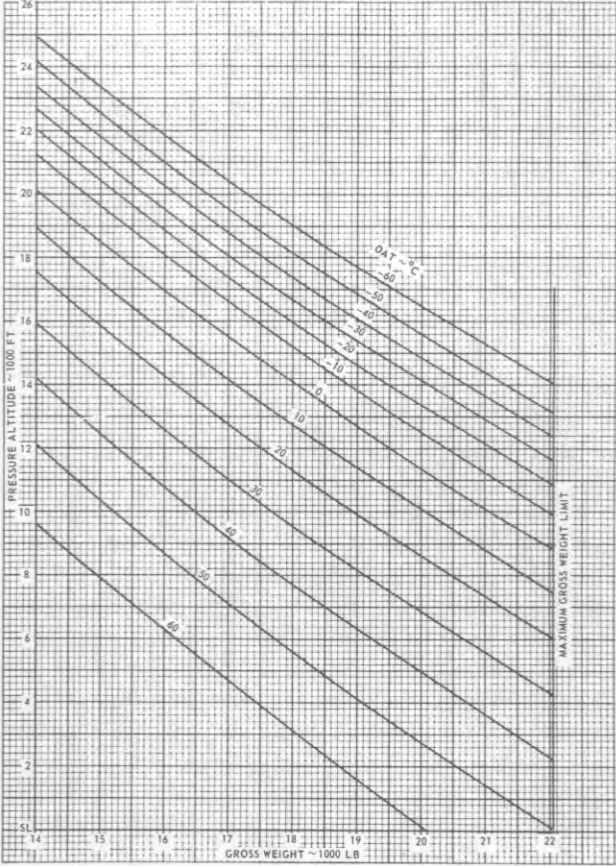
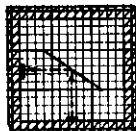


Figure PA-10. Service Ceiling - Maximum Continuous Power - Two Engines

CONDITIONS:
 MILITARY POWER
 103% N_1
 BEST CLIMB SPEED
 FOD SHIELD ON OR OFF
 100 FT/MIN RATE OF CLIMB

**SERVICE CEILING**

ONE ENGINE

MODEL
 CH/HH-3E

ENGINE
 T58-GE-5

DATE: 15 APRIL 1971

DATA BASIS: FLIGHT TEST (AIR FORCE)

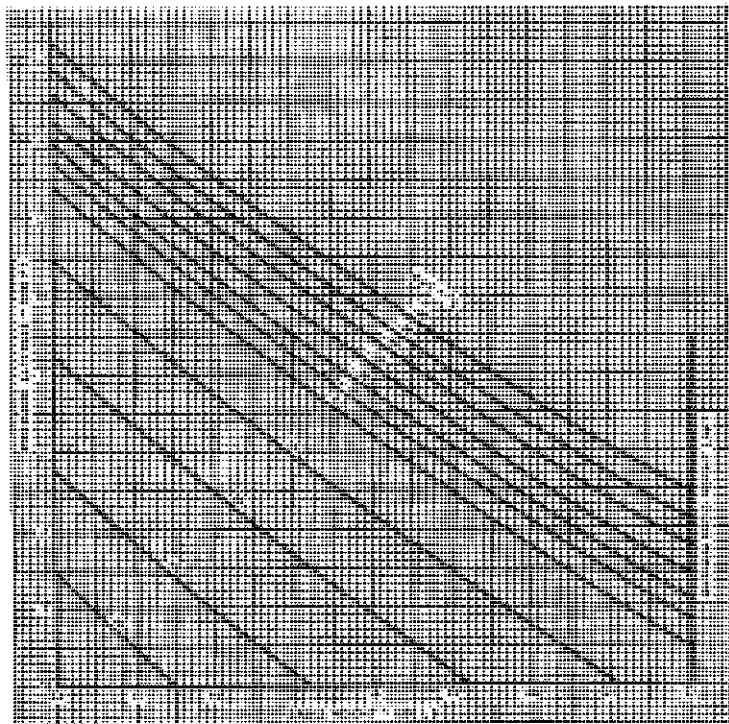


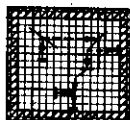
Figure PA-11. Service Ceiling - Military Power - One Engine

CRUISE

OAT BETWEEN 20°C AND 40°C
ONE ENGINE

MODEL
CH/HH-3E

ENGINE
T58-GE-5



CONDITIONS:
103% N₂
ZERO WIND
FOD SHIELD ON OR OFF

DATE: 15 APRIL 1971

DATA BASIS: FLIGHT TEST (AIR FORCE)

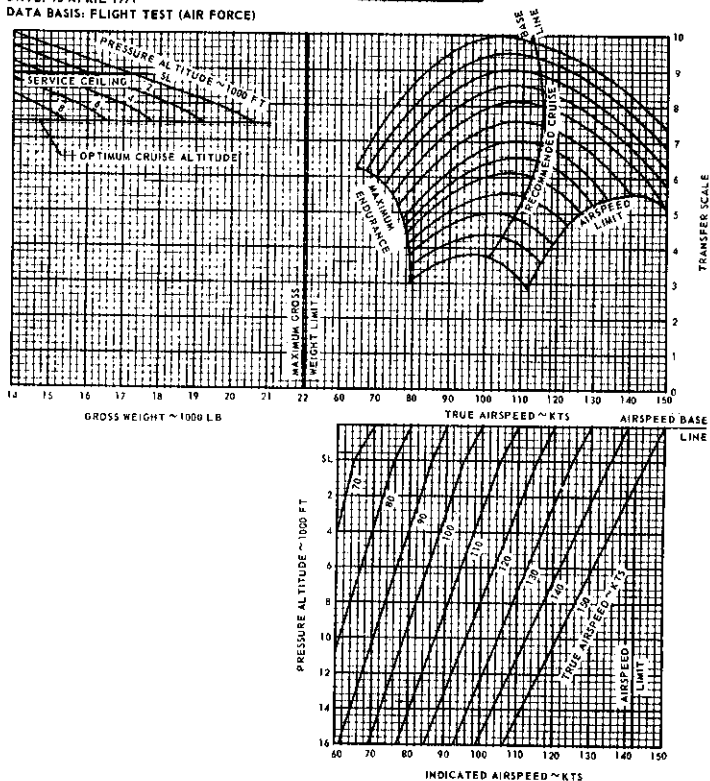


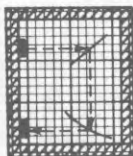
Figure PA-12. Cruise (20°C to 40°C OAT) - One Engine
(Sheet 1 of 2)

CONDITIONS:

103% N_r

ZERO WIND

FOD SHIELD ON OR OFF

**CRUISE**OAT BETWEEN 20°C AND 40°C
TWO ENGINES

MODEL

CH/HH-3E

ENGINE

T58-GE-5

DATE: 15 APRIL 1971

DATA BASIS: FLIGHT TEST (AIR FORCE)

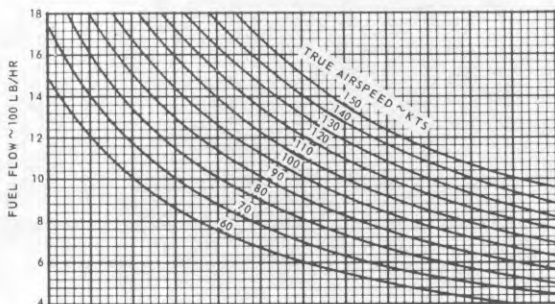
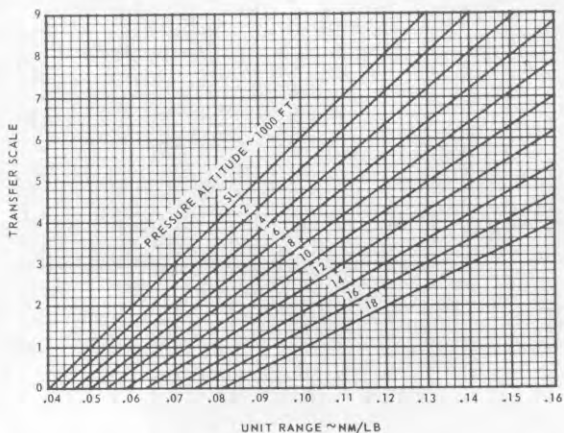
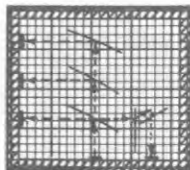


Figure PA-12. Cruise (20°C to 40°C OAT) - One Engine
(Sheet 2 of 2)

SINGLE ENGINE CAPABILITY

ONE ENGINE
MODEL CH/HH-3E ENGINE T58-GE-5



CONDITIONS:
70 KIAS
MILITARY POWER
103% Nr
FOD SHIELD
ON OR OFF
LANDING GEAR UP

DATE: 15 APRIL 1971

DATA BASIS: FLIGHT TEST (AIR FORCE)

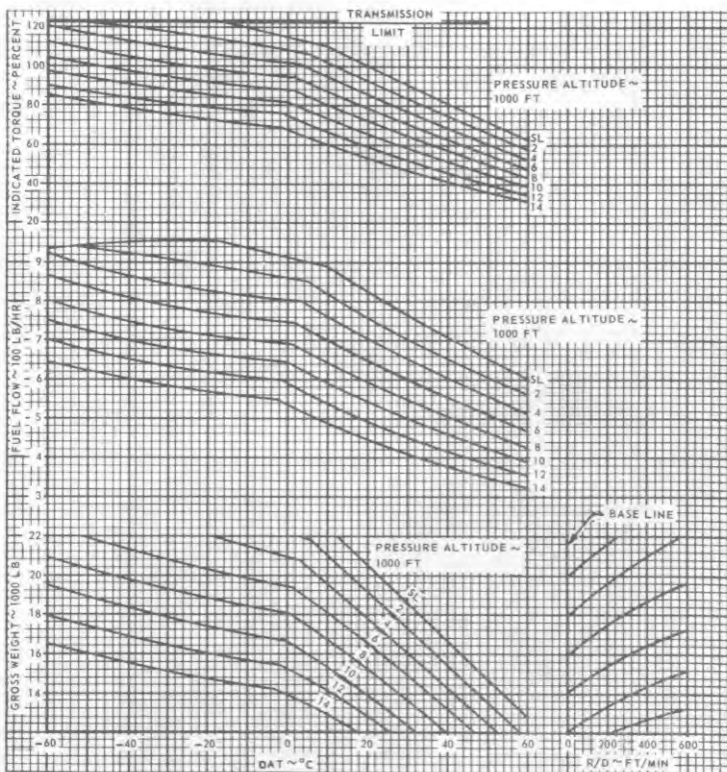


Figure PA-13. Single Engine Capability - Military Power - One Engine

DATE: 15 APRIL 1971
 DATA BASIS: ENG MFG SPEC E1000-A
 NO WIND TO 3 KNOTS

**MAXIMUM POWER
 AVAILABLE**

ONE ENGINE

MODEL
 CH/HH-3E

ENGINE
 T58-GE-6

CONDITIONS:
 HOVER ZERO WIND
 ZERO AIRSPEED
 FOR SHIELD ON OR OFF
 MAXIMUM POWER

5 FT. IN GROUND EFFECT (IGE)
 103% RPM N_r (REF. FIG. A-3)

PRESS. ALT (1000 FT)	TEMPERATURE (°C)													
	-20	-15	-10	-5	0	+5	+10	+15	+20	+25	+30	+35	+40	
10.0	90	89	88	88	84	80	76	72	69	66	61	58	54	
9.5	92	91	90	89	86	82	78	74	70	66	62	59	56	
9.0	93	92	91	91	87	83	79	75	72	68	64	61	57	
8.5	94	94	93	92	89	85	81	77	74	70	66	63	59	
8.0	96	95	94	93	90	86	82	78	75	71	67	64	60	
7.5	98	97	96	95	92	88	84	80	76	72	69	65	61	
7.0	100	99	98	97	94	90	86	82	78	74	71	67	63	
6.5	102	101	100	99	96	92	88	84	80	76	73	69	65	
6.0	103	102	101	100	98	94	90	86	82	78	74	70	66	
5.5	105	104	103	102	100	96	92	88	84	80	76	72	67	
5.0	107	106	105	104	102	98	94	90	86	82	78	74	69	
4.5	109	108	107	106	104	100	96	92	88	83	79	76	71	
4.0	111	110	109	108	106	102	98	93	90	85	81	77	73	
3.5	113	112	111	110	108	104	100	95	92	87	83	79	74	
3.0	115	114	113	112	109	106	102	97	93	89	84	80	76	
2.5	117	116	115	114	111	108	104	99	95	90	86	81	77	
2.0	119	118	117	115	112	110	106	101	96	92	87	82	78	
1.5	120	119	118	117	114	112	108	104	98	94	89	84	79	
1.0	121	120	119	118	116	114	110	106	100	96	91	86	81	
0.5	122	122	121	120	118	116	112	108	102	98	93	88	83	
SL	122	122	122	121	120	118	114	110	104	100	94	89	85	

T.O. 1H-3(C)E-1CL-1

DATE: 16 APRIL 1971

DATA BASIS: ENG MFG SPEC E1000-A

WITH WIND OR FORWARD FLIGHT

MAXIMUM POWER AVAILABLE ONE ENGINE

MODEL
CH/HH-3E

ENGINE
T58-GE-9

CONDITIONS:
FOR SHIELD ON OR OFF
MAXIMUM POWER

103% RPM Nr (REF. FIG. A-3)

PRESS. ALT (1000 FT)	TEMPERATURE (°C)												
	-20	-15	-10	-5	0	+5	+10	+15	+20	+25	+30	+35	+40
10.0	91	90	89	89	88	85	81	78	74	*	*	*	*
9.5	92	92	91	90	89	87	83	80	76	72	*	*	*
9.0	94	93	92	92	91	89	85	81	77	73	69	*	*
8.5	96	95	94	93	92	90	86	82	78	74	71	67	*
8.0	97	96	95	94	93	92	88	84	80	76	73	68	64
7.5	99	98	97	96	96	94	90	86	82	78	75	70	65
7.0	101	100	99	98	97	95	92	87	84	80	76	72	68
6.5	103	102	101	100	99	97	94	89	86	82	78	73	69
6.0	105	103	102	101	100	99	96	91	87	84	79	76	71
5.5	107	105	104	103	102	101	99	93	90	86	81	77	73
5.0	109	107	106	106	105	103	100	96	92	88	83	79	75
4.5	111	109	108	108	108	105	102	98	94	89	85	81	77
4.0	113	111	110	110	109	107	104	99	95	92	87	82	79
3.5	115	113	112	112	110	109	106	102	97	93	88	84	80
3.0	117	115	114	114	112	110	108	104	99	95	90	86	82
2.5	119	117	116	116	114	112	110	106	102	97	92	88	83
2.0	121	119	118	117	116	114	112	108	104	99	93	89	84
1.5	121	120	119	119	117	116	114	110	105	100	95	91	86
1.0	121	121	120	120	118	117	116	112	108	102	98	93	88
0.5	122	122	121	121	120	118	118	114	110	104	100	95	90
SL	123	123	122	122	121	120	119	116	112	108	101	96	92

CONDITIONS:
HOVER, ZERO AIRSPEED,
FOD SHIELD ON OR OFF
5' IN GROUND EFFECT
DATE: 15 APRIL 1971
DATA BASIS: FLIGHT TEST

**TORQUE REQUIRED
TO HOVER**
TWO ENGINES

MODEL:
CH/HH-3E

ENGINE:
T58-GE-5

DENSITY ALTITUDE	SEA LEVEL				2,000 FT.				4,000 FT.				8,000 FT.				8,000 FT
GROSS WEIGHT	-20°	0°	20°	40°	-20°	0°	20°	40°	-20°	0°	20°	40°	-20°	0°	20°	-20°	0°
17,000	69	66	64	64	71	67	66	66	74	70	68	67	76	72	70	78	74
17,250	71	67	66	65	73	69	67	67	75	71	69	*	77	74	72	79	76
17,500	72	68	67	67	74	71	69	68	77	73	71		79	75	74	81	77
17,750	74	70	68	68	76	72	70	69	78	75	73		80	77	75	83	79
18,000	75	72	70	69	77	73	72	71	79	76	74		82	78	76	84	81
18,250	77	73	71	70	79	75	73	73	81	77	75		83	80	78	87	83
18,500	78	75	73	72	80	77	75	74	82	79	77		85	81	79	90	84
18,750	79	76	74	73	81	78	76	75	84	81	79		88	83	81	93	87
19,000	81	77	75	75	83	80	78	*	86	82	80		90	85	*	96	90
19,250	82	79	77	76	85	81	79		89	83	81		93	87			94
19,500	84	80	78	77	87	83	81		91	85	83		96	90			97
19,750	86	82	80	79	90	84	82		94	88	85			94			*
20,000	88	83	81	80	93	86	83		97	91	87			97			
20,250	90	85	83	81	95	89	85			94	90						
20,500	93	87	84	82		91	88			97	94						
20,750	96	90	86	*		94	90				*						
21,000		92	89			97	93										
21,250		95	91				96										
21,500			94														

*MAX GROSS WEIGHT

T.O. 1H-3(C)E-1CL-1

CONDITIONS:
HOVER, ZERO AIRSPEED,
FOD SHIELD ON OR OFF
OUT OF GROUND EFFECT
DATE: 15 APRIL 1971
DATA BASIS: FLIGHT TEST

TORQUE REQUIRED TO HOVER

TWO ENGINES
MODEL: CH/HH-3E ENGINE: T58-GE-5

DENSITY ALTITUDE	SEA LEVEL				2,000 FT.				4,000 FT.				6,000 FT.				8,000 FT.	
GROSS WEIGHT	-20°	0°	20°	40°	-20°	0°	20°	40°	-20°	0°	20°	40°	-20°	0°	20°	-20°	0°	
17,000	86	81	79	78	88	83	81	*	91	86	84	*	95	89	*	98	93	
17,250	88	83	81	80	91	86	83	*	93	88	86		97	92	*	*	*	
17,500	90	84	82	82	93	88	85	*	96	90	88		99	94	*	*	*	
17,750	92	86	84	83	95	89	87	*	98	93	90		101	96	*	*	*	
18,000	94	89	86	*	97	91	89	*	100	95	*		—	98	*	*	*	
18,250	96	91	88	*	99	94	91	*	102	97	*		—	101	*	*	*	
18,500	98	93	90	*	101	96	93	*	—	99	*		*	103	*	*	*	
18,750	100	95	92	*	103	98	95	*	—	102	*		*	*	*	*	*	
19,000	102	97	94	*	—	101	98		*	*	*		*	*		*	*	
19,250	—	99	96	*	—	103	100		*	*	*		*	*			*	
19,500	—	102	99	*	*	—	*		*	*	*		*	*			*	
19,750	—	—	101	*	*	*	*		*	*	*			*				
20,000	*	—	103	*	*	*	*		*	*	*			*				
20,250	*	*	*	*	*	*	*			*	*							
20,500	*	*	*	*		*	*			*	*							
20,750	*	*	*			*	*											
21,000		*	*			*	*											
21,250		*	*				*											
21,500			*															

*MAX GROSS WEIGHT

- BEYOND TRANSMISSION LIMIT