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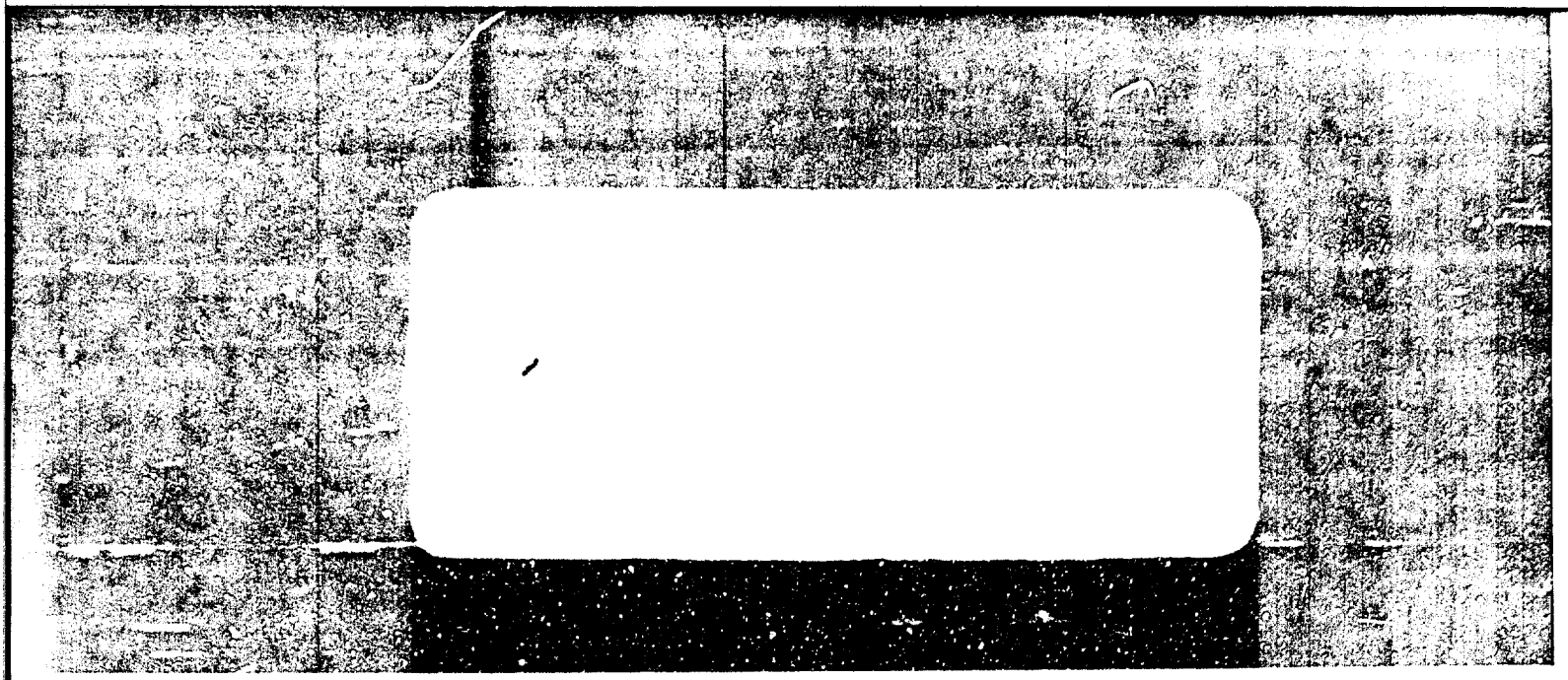

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 R32-4-CR72-A-13-

VOLUME II E BOEING
SPECIFICATION 2681
ENGINE MODEL STF219-B (U)

JAN 20 1967

FAA SECURITY CONTROL
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Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

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PRATT & WHITNEY AIRCRAFT
Division of United Aircraft Corporation
East Hartford 8, Connecticut, U.S.A.

Commercial
T.C. No.

Model STF219-B
Spec. No.—2681

PRELIMINARY

TURBOFAN ENGINE SPECIFICATION
STF219-B
GUARANTEED CALIBRATION STAND PERFORMANCE

	Sea Level Static Output			
	Basic		Initial Production	
RATING (See General Notes)	Jet Thrust Lb.	Max. S.F.C. Lb/Hr/Lb Thrust	Jet Thrust Lb.	Max. S.F.C. Lb/Hr/Lb Thrust
Take-Off				
Fully Augmented	56,000	1.82	51,500	1.87
Non-Augmented	36,000	0.76	31,500	0.69
Maximum				
Fully Augmented	56,000	1.82	51,500	1.87
Maximum Cruise				
Non-Augmented	34,300	0.72	29,600	0.65

The specified ratings are attainable on the test stand at 1962 U.S. Standard Atmospheric (Geometric) conditions, with the specified fuel using the standard jet nozzles and assuming an ejector nozzle system with velocity coefficient of 0.985 and without compressor airbleed or load on accessory drives.

DESCRIPTION AND DIMENSIONS

Installation Drawing No. 537101, Sheet 1
Performance Curve No. T-1688

The STF219-B is a twin spool axial flow turbofan engine with a multi-stage compressor and forward fan driven by a multi-stage reaction turbine. The engine incorporates a full length concentric fan discharge duct with a duct heater and a fully modulating, variable area, convergent exhaust nozzle and also a blow-in-door ejector and reverser.

Engine Diameter, Basic at Room Temperature	See Installation Drawing
Engine Length, Basic at Room Temperature	See Installation Drawing

FUEL AND OIL

Fuel. Refer to Latest Specification	PWA 533
Oil. Refer to Latest Specification	PWA 521 Type II
Oil Consumption, Maximum (As Measured Over a 10-Hour Period)	.4 gal/hr

ESTIMATED DRY WEIGHT

including Standard Equipment, Not to Exceed	9790 lbs.

Date: 10-30-64

Additional Details on Page 2.

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STANDARD EQUIPMENT
Included in Engine Price and Dry Weight

Fuel System Including Gas Generator Control, Duct Heater Control, Fuel Pumps, and Altitude Compensated Thrust and Speed Control Unit.
Lubrication System Including Oil Tank and Fuel/Oil Cooler.
Engine Ignition System without Power Source.
Variable Area Exhaust Nozzle Including Control System.
Fuel Inlet Manifold. Fuel Boost Pump (Duct Heater).
Windmilling Brake System (Aerodynamic). Blow-in-Door Ejector and Reverser, Including Control System. Power Take-Off
Gas Generator Thermocouples and Pressure Probes.
Provisions for Duct or Total Output Instrumentation.

Accessory Drives	No. of Drives	Drive Designation	Torque Rating Tc Lb-In	Ts	Rotation Drive End
Tachometer (N1)	1	20005XVB	7	50	CW
Tachometer (N2)	1	20005XVB	7	50	CCW
Power Take-Off	1	20002XIIS	1972	7750	CCW
Hydraulic Pump Pads	2	AS468B	1020	6300	CW

See Installation Drawing for Details.

APPENDICES

Appendix A — Estimated Engine Performance and General Requirements
Appendix B — Test Requirements
Appendix C — Estimated Blow-in-Door Ejector and Reverser

GENERAL NOTES

Take-Off Rating — ("Take-Off Thrust"). This rating is intended for take-off use only and is time limited to five minutes. The specified Take-Off Rating is the maximum take-off thrust available at standard temperature and below.

Maximum Rating — ("Maximum Thrust"). This rating is primarily intended for the climb and acceleration condition with augmentation ranging from zero to full duct heat and is normally limited to 30 minutes. This rating is also intended for emergency use at the discretion of the pilot and authorized for aircraft certification where flight at maximum continuous thrust is called for per CAR 13.

Maximum Cruise Rating — ("Cruise Thrust"). This rating is intended for cruise operation with or without augmentation as required for either supersonic or subsonic speeds.

The Installation Drawing must be used only to determine the configuration of necessary parts and details of drives. For special arrangements, consult Pratt & Whitney Aircraft for written recommendations.

VOLUME II E BOEING

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Curve T-1688	Sheets 1 - 103
Installation Dwg.	537101 Sheet 1

VOLUME II E BOEING

PREFATORY NOTE

Specification 2681 covering the STF219-B engine is presented in this volume. This specification supersedes all model specifications submitted previously under the SST program. Appendices tc the usual Pratt & Whitney Aircraft commercial engine specification have been included to describe pertinent engine, ejector, and test requirements.

The specification covers the requirements for the initial production and the basic engine. However, because of the early delivery requirements for flight test status engines, the specification requirements shall be considered as design objectives for such engines. The weight of the flight test status engines may be up to 200 pounds over the weight specified for production engines.

Modifications to MIL-E-5156C contained in the original request for proposal have been included as deviations to MIL-E-5156C for the flight test status testing program.

PRATT & WHITNEY AIRCRAFT

Division of United Aircraft Corporation

East Hartford 8, Connecticut, U.S.A.

Model STF219-B
Spec. No. 2681
Appendix A

PRELIMINARY TURBOFAN ENGINE SPECIFICATION

STF219-B

APPENDIX A

ENGINE PERFORMANCE AND GENERAL REQUIREMENTS

1. SCOPE

This appendix covers the performance and the general requirements for the STF219-B engine.

2. PERFORMANCE

2.1 ALTITUDE PERFORMANCE

A. In addition to the guaranteed calibration stand performance shown in P&WA Specification 2681, the following guarantees shall apply for the high airflow schedule engine.

BASIC ENGINE
STANDARD DAY AMBIENT TEMPERATURE

Thrust Setting	Alt. Ft.	Mach No.	Ram Recov.	Thrust Lb.	TSFC Lb/Hr/Lb	Airflow Lbs/Sec
Maximum						
Max D/H	SL	0	.96	52500	1.86	---
Min D/H	SL	0	.96	39000	1.00	---
D/H Not Lit	SL	0	.96	33900	.77	---
Max D/H	36150	1.2	.98	29400	1.83	---
Cruise						
Partial D/H	65000	2.7	.90	12600	1.48	*
Part Power	36150	.8	.986	4800	.91	---
Part Power	15000	.4	.986	4800	.94	---

INITIAL PRODUCTION ENGINE

STANDARD DAY AMBIENT TEMPERATURE

Thrust Setting	Alt. Ft.	Mach. No.	Ram Recov.	Thrust Lb.	TSFC Lb/Hr/Lb	Airflow Lbs/Sec
Maximum						
Max D/H	SL	0	.96	48000	1.93	---
Min D/H	SL	0	.96	34600	.97	---
D/H Not Lit	SL	0	.96	29400	.71	---
Max D/H	36150	1.2	.98	27300	1.87	---
Cruise						
Partial D/H	65000	2.7	.90	12600	1.55	*
Part Power	36150	.8	.986	4800	.88	---
Part Power	15000	.4	.986	4800	.92	---

*To be included at a later date.

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B. In the event that flight performance data indicates the need for demonstration of the performance guarantees, Pratt & Whitney Aircraft will conduct a special laboratory test on a Pratt & Whitney Aircraft test stand using standard calibration equipment and methods to demonstrate conformance with the guarantee points. Such demonstration will be made using a new production engine. The demonstration of any guaranteed point where the test conditions exceed the capability of the laboratory will be by calculation from test data obtained at test conditions which lie within the capacity of the laboratory.

C. If required per Paragraph (A), ratings quoted above are to be demonstrated on a test stand at 1962 U. S. Atmospheric (Geometric) conditions, with the specified fuel, using a Pratt & Whitney Aircraft bellmouth inlet and indicated ram recovery, the standard jet nozzles, assuming an ejector nozzle system with velocity coefficient of 0.985 and without compressor airbleed or load on accessory drives.

D. For the purpose of practical demonstration, the altitude guarantee will be met if demonstrated within the accuracy of the altitude laboratory equipment.

E. The quoted specific fuel consumptions are maximum values.

F. The quoted net thrusts are minimum values.

2.2 ESTIMATED BASIC ENGINE PERFORMANCE

Estimated engine performance is shown on Curve T-1688, sheets 4 through 59 and pages B-D1 through B-D120 for the basic engine. For the initial production engine, estimated engine performance is shown on Curve T-1688 sheets 61 through 74 and pages B-D121 through B-D124. Information on Curve T-1688 is based on no airbleed or power extraction.

Electronic automatic machine performance data in accordance with SAE ARP 681 will be supplied to the airframe manufacturer in a form agreed to by the airframe manufacturer and P&WA.

Should discrepancies exist, the information in Curve T-1689 shall take precedence.

2.3 CONDITIONS

Performance estimates are based on the following

a. Ambient conditions in accordance with U. S. Standard Atmosphere 1962 (Geometric).
b. Ram recovery at the engine inlet as shown on Curve T-1688, sheet 57.
c. Radial and circumferential overall pressure distortion at the engine inlet not exceeding 11% except within 1/2 inch at the I. D. and O. D. of the flow annulus.
d. Exhaust ejector nozzle system with velocity coefficient of .985.
e. Fuel as specified in PWA 533.

3. GENERAL REQUIREMENTS

3.1 OPERATING ENVELOPE

When Pratt & Whitney Aircraft recommended procedures are complied with, the engine shall operate satisfactorily within the pressure altitude and Mach number limits shown on Curve T-1688 sheet 3 with ambient temperatures within the limits shown on Curve T-1688 sheet 56 provided the inlet temperature and pressure are within the limits shown on Curve T-1688 sheet 2.

3.2 STABILITY

Under steady state operating conditions without augmentation the engine thrust oscillation shall not vary more than ±5% of the thrust available at the particular power lever position and flight condition, but in no event shall the deviation in thrust be more than ±1% of the maximum non-augmented thrust. During steady state operation with any amount of augmentation up to maximum augmentation, the engine thrust oscillation shall not exceed ±1% of the thrust available at that condition.

3.3 WINDMILLING OPERATION

Pilot-operated emergency provisions are incorporated to aerodynamically reduce rotor speeds during windmilling.

3.4 STARTING

3.4.1 STARTING PROVISIONS

The fuel flow required for engine light off and acceleration to Idle shall be automatically controlled when the fuel control shut-off valve is placed in the starting position with the power lever in the idle position. Automatic actuation of the starter or ignition system will not be provided.

3.4.2 GROUND STARTING

The engine shall start satisfactorily within 60 seconds, from pressurization of the fuel system to the appropriate Idle condition, over the sea level ambient temperature range shown on Curve T-1638, sheet 56 provided:

a. that the recommended starting torque requirements are met;

b. that the fuel temperature requirements are met;

c. that the fuel pressure requirements are met;

d. that the electrical power requirements for starting are met.

3.4.3 INFLIGHT STARTING

The engine shall start satisfactorily, without starter assistance, within the flight conditions shown on Curve T-1688, sheet 2 over the ambient temperature range shown on Curve T-1688, sheet 56 provided:

a. that the fuel temperature requirements are met

b. that the fuel pressure requirements are met

c. that the electrical power requirements for starting are met

3.5 SHUTDOWN

Normal shutdown of the engine shall be accomplished by closing the engine control fuel shut-off valve. Limiting component temperatures must not be exceeded. Normal shutdown of the duct heater shall be accomplished by placing the power lever in any position other than in the thrust augmentation range.

3.6 THRUST TRANSIENTS

The estimated acceleration characteristics of the engine are shown on Curve T-1688, Sheets 76 and 77.

3.7 INLET AIR PRESSURE DISTORTION AND VARIATION ESTIMATES

The estimated capability of the engine to withstand inlet air pressure distortion or variation is described in subparagraphs below where terms are defined as follows:

$P_{t2\ AVE}$ = Average area weighted engine inlet pressure

$P_{t2\ MAX}$ = Maximum P_{t2} measured using instrumentation as recommended by P&WA

$P_{t2\ MIN}$ = Minimum P_{t2} measured using instrumentation as recommended by P&WA.

$$\text{PERCENT OVERALL DISTORTION} = \frac{P_{t2\ MAX} - P_{t2\ MIN}}{P_{t2\ AVE}}$$

3.7.1 The allowable circumferential and radial distortion limits are dependent on the detailed distribution of the distortion. Accordingly, compatibility between engine and inlet shall be determined and agreed upon between the engine and the airplane manufacturers based on detailed analysis of test data. The

estimated allowable overall distortion limits for continuous operation shall be approximately 11 percent of the average absolute total pressure except within 1/2 inch at the I.D. and O.D. of the flow annulus. The effect of distortion within this limit on engine performance may be considered to be negligible.

3.7.2 It is estimated that an overall distortion of 15% except within 1/2 inch of the duct wall will not so adversely affect engine operation as to precipitate engine stall or flame out.

Until engine development confirms that adverse effects of distortion within these limits on engine performance and component durability are tolerable, normal flight operation at this overall distortion level cannot be recommended.

3.7.3 It is estimated that an overall distortion of 25% or more may be expected to result in engine stall and/or flame out. If all operating recommendations of Pratt & Whitney Aircraft are promptly followed, no direct engine damage would be expected. Continuous operation with distortion levels of this magnitude would adversely affect engine durability and could result in component mechanical failure.

3.7.4 The engine is estimated to be capable of experiencing an occasional reduction in stabilized P_{t2} AVE of 75% in 1/10 second without any direct damage. More rapid changes of pressure are not recommended and would be expected to cause adverse engine operation including stall and/or flame out.

3.7.5 The engine is estimated to be capable of experiencing an occasional variation of stabilized P_{t2} AVE of +15% and -75% at a frequency range of up to 5 cycles per second for a maximum of one minute without any direct damage. More rapid fluctuations in pressure are not recommended and would be expected to cause adverse engine operation including stall and/or flame out.

3.8 INLET ANTI-ICING

The engine shall be capable of operation throughout the flight power range without accumulation of ice on the engine components such as to adversely affect engine operation or cause a serious loss of thrust in continuous maximum and intermittent maximum icing conditions as defined in CAR Part 4b. 1(b) (7) and (8).

3.9 ENGINE MOUNTING

Engine mount points and allowable design loads shall be as shown on the installation drawing.

3.9.1 GROUND HANDLING

Attachments for ground handling of the engine shall be provided. The attachments shall be designed for a load factor of 4 based on the engine weight.

3.9.2 ESTIMATED MASS MOMENT OF INERTIA OF ROTATING PARTS

The estimated effective mass moments of inertia of the engine rotors about their axes are 26.8 slug ft^2 for the low rotor and 19.2 slug ft^2 for the high rotor.

3.10 BLEED AIR

The engine shall incorporate provisions for the extraction of bleed air for airframe use in quantities not to exceed those listed below.

High pressure (Compressor Discharge)

At Maximum Cruise Rating and above ..... * of primary airflow

At Idle Rating ..... * of primary airflow

Low Pressure (Fan Discharge Duct) ..... * of fan duct airflow

*To be included at a later date.

3.11 ENGINE FUEL CONTROL SYSTEM

The engine fuel control system shall provide control of the engine for steady state and transient performance specified, including augmentation, when fuel is supplied to the engine fuel inlet connection in accordance with the subparagraphs below. Two levers on the hydromechanical fuel control provide for operation of the engine. The power lever controls thrust in the power range of full reverse, through null thrust and Idle, to Take-Off while the shutoff lever provides for engine shutdown and starting by respectively closing or opening a fuel shutoff valve. A functional representation of the power lever operation is shown on Curve T-1688 sheet 59. A separate manual fuel control system shall not be provided. The system shall provide for recirculation of fuel to the aircraft tanks during windmilling operation and under those conditions where recirculation is required to provide sufficient cooling of engine oil.

3.11.1 FUEL TEMPERATURE AND PRESSURE

3.11.1.1 FUEL TEMPERATURE LIMITS

The fuel provided at the inlet connection must be between that temperature corresponding to a fuel viscosity of 12 centistokes for ground starting or 10°F above the fuel freezing point for all other operations and a maximum of 250°F.

3.11.1.2 FUEL PRESSURE LIMITS

Under normal conditions, fuel pressure at the engine connection must be maintained at not less than 5 psi above true vapor pressure of the fuel and not greater than 50 psig and with a vapor/liquid ratio of zero.

Under emergency conditions, with tank-mounted boost pumps inoperative, the engine shall operate for limited periods under the following inlet conditions, provided the true vapor pressure of the fuel does not exceed 0.5 psi at 175°F and 2.5 psi at 250°F.

Condition	Power	Alt. (Ft.)	Fuel Temp. °F	Inlet Condition Fuel Pressure
1	T.O. D/H	0 - 8000	110°	7.5 psia
2	Max. Cruise D/H	15,000	110°	5.5 psia
3	Max. Cruise D/H	65,000	220°	6.5 psia
4	Max. Cruise Non D/H	40,000	120°	1.7 psia
5	Max. Cruise Non D/H	65,000	220°	2.2 psia

3.11.1.3 FUEL RECIRCULATION

The back pressure at the engine fuel recirculation connection must be maintained between 5 psi and 40 psi above the engine pump inlet pressure and the engine recirculation system shall be capable of providing a return flow of at least 15,000 pph.

3.11.2 CONTROL LEVER TORQUE

The torque required for advancing or retarding the control levers shall not exceed 10 pound inches.

3.11.3 FUEL LEAKAGE

There shall be no combustible fluid leakage from any part of the engine except at the drains provided for this purpose. The combined liquid leakage from the engine overboard drain fittings shall not exceed 10 cc per minute during engine steady state operation.

3.12 LUBRICATION SYSTEM

The engine lubrication system shall be self contained. Compliance with the fuel temperature and fuel recirculation requirements is necessary for satisfactory lubrication of the engine.

3.12.1 OIL SUPPLY

The oil reservoir shall have sufficient useable oil capacity for 10 hours of engine operation.

3.13 ELECTRICAL SYSTEM

At all engine conditions at or above Idle, the engine shall operate safely throughout the complete thrust range in the event of loss of externally supplied electrical power to the engine, except that equipment requiring external electrical power will be inoperative.

3.13.1 EXTERNAL ELECTRICAL POWER

Electrical power from external sources is required by the engine for the following intermittent operations:

ignition, starting..... 6 amps, 115 volts, 400 cps

ignition, duct heater..... 6 amps, 115 volts, 400 cps

3.13.2 IGNITION PROOF

All electrical components shall be ignition proof in order not to ignite any explosive mixture surrounding the equipment.

3.13.3 CONNECTORS AND CABLES

At a temperature of -40°F, it shall be possible to connect or disconnect electrical connectors and to flex electrical conductors, as necessary for routine maintenance, without damage to these items.

3.14 ENGINE COMPONENT COOLING

The design of the engine components shall be such that they shall operate satisfactorily under the environmental temperatures anticipated at the following conditions:

a. Continuous operation with surrounding air at the maximum ram temperature and a maximum velocity of 25 feet/second;

b. Inflight shutdown from the most adverse condition and continued soaking with surrounding air at the maximum ram temperature and a maximum velocity of 25 feet/second;

c. Ground shutdown with surrounding air at the standard hot day conditions.

3.15 INSTRUMENTATION

3.15.1 The following shall be provided with the engine:

a. Turbine exit pressure probes and averaging manifold;

b. Instrumentation for providing an electrical representation of average turbine inlet temperature;

c. Gas path instrumentation to measure duct output.

3.15.2 Provisions for the following instrumentation shall be as shown on the installation drawing:

a. Low rotor speed tachometer;

b. High rotor speed tachometer;

c. Oil-in temperature;

d. Oil pressure;

e. Primary gas generator fuel flowmeter;

f. Duct heater fuel flowmeter;

g. Pressure drop across oil strainer;

h. Pressure drop across fuel filter;

i. Vibration pickup mounting brackets (2);

j. Fuel pump inlet pressure;

k. Fuel inlet temperature;

l. Thrust reverser position indication.

3.16 IDENTIFICATION PLATE

An identification plate in accordance with the requirements of CAR part 13, paragraph 13.20 shall be affixed to the engine.

3.17 ENGINE CERTIFICATION

The engine shall be designed to meet FAA engine type certificate requirements in accordance with Part 13 of the Civil Air Regulations. The engine certification, when acquired, shall establish that FAA requirements have been met for adequate turbine disc integrity and rotor blade containment without external engine shielding.

3.18 INSTALLATION CHANGES

After delivery of the engine mockup to the aircraft manufacturer, changes to the engine which affect the installation shall be coordinated with the aircraft manufacturer. These shall be incorporated in the mockup in accordance with Pratt & Whitney Aircraft's established procedures, throughout the development program of the engine installation.

PRATT & WHITNEY AIRCRAFT
Division of United Aircraft Corporation
East Hartford 8, Connecticut, U.S.A.

Model STF 219-B

Spec. 2681
Appendix B

PRELIMINARY TURBOFAN ENGINE SPECIFICATION

STF 219-B

APPENDIX B

TESTING REQUIREMENTS

1. SCOPE
Testing requirements for prototype and production engines and component parts of these engines are described in this appendix.

2. ENGINE FLIGHT TEST STATUS
Engine Flight Test Status shall be accomplished by successful completion of sea level and altitude tests in accordance with paragraphs 2.1 and 2.2. The engine shall be equipped with a prototype ejector reverser for these tests.

2.1 SEA LEVEL TESTS
Sea Level tests shall be conducted in accordance with paragraph 4 of MIL-E-5156C dated 22 January 1956 except as modified by subparagraphs below.

2.1.1 (4.2.1.1.2 of MIL-E-5156) VIBRATION MEASURING EQUIPMENT

Revise this paragraph to read: "The vibration equipment used for measurement of engine case vibration shall have frequency response characteristics similar to the response characteristics of equipment used on previously Type Certificated engines."

2.1.2 (4.2.1.3.1.2 of MIL-E-5156) CORRECTION

Change "ARDC Model Atmosphere 1956 (ASTIA Document 110233)" to "1962 U.S. Standard Atmosphere (Geometric) conditions."

2.1.3 (4.2.1.3.5 of MIL-E-5156) ACCESSORY DRIVES

Add the following to the first sentence: "In the event the accessory is not available or fails during test, it may be replaced with a dummy weight simulating the overhung moment rating of the pad, and the test may be continued."

2.1.4 (4.2.2.1.2 of MIL-E-5156) TEMPERATURE SENSING SYSTEM CALIBRATION

Revise the last sentence to read: "The thermal response of the system shall be measured by a method selected by the contractor."

2.1.5 (4.2.2.1.3 of MIL-E-5156) ENGINE CONTROL SYSTEM CALIBRATION

Add the following to this paragraph: "The calibration shall include a measurement of power lever torque."

2.1.6 (4.2.2.1.4 of MIL-E-5156) ENGINE CALIBRATION

Revise item b. to read:

"b. Transient data: Data required to demonstrate engine starting and thrust transients."

2.1.7 (4.2.2.2. of MIL-E-5156) PROCEDURE

Revise this paragraph to read: "Following the calibration run, the control shall be adjusted to produce at least the Take-off rated thrust with the power lever in the Take-off thrust position. During the test the engine shall be adjusted as necessary to maintain the rated thrust. The test shall be conducted in accordance with 4.2.2.2.1 and 4.2.2.2.2, of MIL-E-5156C, as modified herein. The runs in each cycle shall be performed in a sequence providing optimum facility utilization. The time for changing thrust shall be charged to the duration time at the lower setting. For all power lever movements, the power lever shall be advanced or retarded as applicable in not more than one second during Part 1, and 1 minute during Part 2."

2.1.8 (4.2.2.2.1 of MIL-E-5156) PART I

Revise this paragraph to read: "The sea level endurance test shall consist of 10 cycles of 5 hours each to be conducted in accordance with the schedule listed below. At least three of these cycles shall be at maximum specified fuel inlet pressure. The 2nd and 7th cycles shall be accomplished with at least the maximum permissible bleed airflow. All other cycles shall be with no compressor air bleed flow other than that required for continuous engine operation.

a. Take-off thrust - Maximum Cruise thrust run
Thirty minutes consisting of five six-minute periods, in each of which five minutes are at Take-off fully augmented thrust, and one minute is at Maximum cruise non-augmented thrust.

b. Maximum Cruise thrust run
One hour at Maximum Cruise augmented thrust.

c. Maximum thrust - Idle thrust run
Thrity minutes consisting of five six-minute periods, in each of which four minutes are at Maximum augmented thrust, and two minutes are at Idle thrust.

d. Maximum Cruise non-augmented thrust run
Forty-five minutes at Maximum Cruise non-augmented thrust.

e. 90% Maximum Cruise non-augmented thrust run
Twenty-one minutes at 90% Maximum Cruise non-augmented thrust.

f. Reverse thrust run
Nine minutes of operation in the sequence of power lever positions and time durations as follows: One minute Idle, three minutes maximum reverse thrust, one minute maximum thrust, three minutes maximum reverse thrust and one minute Idle.

g. Thrust transients run
Thirty minutes of thrust transients, consisting of six cycles from Idle thrust to Take-off augmented thrust, maintained at Take-off augmented for 60 ± 3 seconds, retarded to Idle, and maintained for approximately three and one-half minutes. One out of every six cycles will be accomplished with the augmentation light-off at minimum thrust level.

h. Incremental Maximum thrust run
One hour and fifteen minutes consisting of five minutes at each of the following percentages of Maximum nonaugmented thrust:
15, 25, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 95, 100. This portion of the test may be revised to include additional time at the vibratory speeds and elimination of some intermediate points."

2.1.9 (4.2.2.2.2 of MIL-E-5156) PART 2

Revise this paragraph to read: "Heated inlet air test - The heated inlet air test shall be conducted on the engine which completed Part 1 above. The test shall consist of five cycles of five hours each in which the engine inlet air, and the air which passes over the engine, shall be at cruise Mach No. and altitude, standard day, predicted supersonic transport ram recovery and flight temperature conditions, with fuel inlet temperatures and pressures from minimum to maximum. If desirable two of the five cycles may be run at intermediate speeds and altitudes (i.e., Mach 1.5 to cruise Mach No.). Further, at least one of the five cycles shall be run at the maximum "Q" conditions shown in the engine flight envelope. This portion of the Flight Test Status endurance test shall be conducted as follows:

a. Maximum thrust run
One hour and 20 minutes at Maximum fully augmented thrust.

b. Maximum supersonic cruise thrust run
One hour and 12 minutes at maximum supersonic cruise thrust using the maximum level of augmentation for normal cruise.

c. Minimum cruise thrust run
Two hours at Maximum Cruise thrust using the minimum level of augmentation.

d. Idle thrust run
Twenty-eight minutes at Idle thrust.

Two augmentation system lightoffs shall be required for each 5-hour cycle."

2.1.10 (4.2.2.2.3 of MIL-E-5156) STARTS

Add the following sentence between the fourth and fifth sentences: "The false starts may be conducted on an outdoor test stand using an engine not necessarily the endurance test engine."

2.1.11 (4.2.2.2.6.1 of MIL-E-5156) STEADY STATE DATA

Add a sentence to this paragraph as follows: "During Part 2, data for determining jet thrust will be measured in lieu of jet thrust."

2.1.12 (4.2.2.2.6.3 of MIL-E-5156) STARTING DATA

Revise this paragraph to read: "During the starts conducted under 4.2.2.2.3 of MIL-E-5156C the following data shall be recorded for each start performed:

Ambient temperature;
Start number;
* Time to ignition:
* Time to starter cut out;
Time to stabilized ground idle RPM:
* RPM at ignition;
* RPM at starter cutout;
Maximum measured gas temperature.

In addition, records of starter torque versus rpm shall be made during calibration, recalibration and 5 successive starts of the endurance test. Starter torque versus rpm testing may be waived if acceptable data is available from another equivalent engine.

Note: Items marked * need be recorded only during calibration, recalibration and 2 successive starts at the beginning and the end of the Endurance test, at least one of which will be after a two hour shutdown. This data will also be recorded during one of the false starts."

2.1.13 (4.2.2.3.3 of MIL-E-5156) TEMPERATURE SENSING SYSTEM CALIBRATION

Revise the last sentence to read: "The thermal response of the system shall be measured by a method selected by the contractor."

2.1.14 (4.3.2.1 of MIL-E-5156) EXPLOSION-PROOF

Add the following sentence to this paragraph: "Hermetically sealed components need not be subjected to this test."

2.1.15 (4.3.3 of MIL-E-5156) FUEL PUMP ALTITUDE-PROOF TEST

Substitute the following for the second sentence: "Test fluid shall be specified engine fuel at a temperature of at least 100°F. The absolute pressure over the fuel in the tank shall be maintained at a value equivalent to 6000 feet standard altitude and the pressure at the engine fuel pump inlet shall be at least 3 psi below this value."

2.1.16 (4.5 of MIL-E-5156) GENERAL INSPECTION

Substitute the following for the second sentence: "The engine and components shall be examined to determine if they conform to all requirements of the contract and specification under which they were built." Add the following sentence to the end of the paragraph: "However, external adjustments normally permitted during routine maintenance may be made at the discretion of the Contractor."

2.2 ALTITUDE TEST

An engine, substantially identical to but not necessarily the same engine which completed Parts 1 and 2 above, shall be subjected to altitude tests to demonstrate altitude performance requirements specified for the selected aircraft manufacturer. The altitude test procedure shall be negotiated. Structural and performance capability of the exhaust system to operate under pressure ratio conditions expected in flight shall be demonstrated as a part of this test.

3. TYPE CERTIFICATION TESTS

Type Certification tests shall be conducted in accordance with CAR 13, Aircraft Engine Airworthiness dated 2/12/63, or subsequent revisions made applicable to the supersonic transport engine. These tests shall demonstrate compliance with engine airworthiness requirements as presented in CAR 13. The tests shall include those described below.

3.1 (ref CAR 13.200) FOREIGN OBJECT INGESTION

The capability of successfully sustaining foreign object damage has been incorporated into the design of this engine. The design is based on that of engines previously Type Certificated. Substantiation of foreign object ingestion capability shall be provided.

3.2 (ref. CAR 13.201) LOW CYCLE FATIGUE

The low cycle fatigue integrity of the engine rotor system will be demonstrated by a supplemental engine being subjected to 1000 alternate periods at take-off and idle thrust conditions.

3.3 (ref. CAR 13.204) BLADE CONTAINMENT

The capability for blade containment has been incorporated into the design of this engine. The design is based that of previously Type Certificated engines which have demonstrated this capability. Substantiation of the blade containment feature shall be provided.

3.4 (ref. CAR 13.205) SURGE CHARACTERISTICS

Substantiation of an adequate margin between compressor stall lines and the range of compressor operating lines, indicating that the engine is free of detrimental surge at sea level and altitude, shall be provided. The information shall consist of engine and rig test data as well as an analytical presentation.

3.5 (ref CAR 13.210) FUEL AND INDUCTION SYSTEMS

3.5.1 ANTI-ICING

Adequacy of the engine air inlet's protection from icing shall be demonstrated in the same manner as for the previously Type Certificated engines. During the anti-icing tests it shall be verified that positive indication of anti-icing airflow is provided.

3.5.2 FUEL DEICING

The ability of the deicing features of the fuel system to perform their intended function shall be substantiated.

3.6 (ref. CAR 13.216) TURBINE ROTORS

3.6.1 CONTROL FAULT ANALYSIS

A fault analysis of the fuel control system shall be provided. This information shall show that a fail-safe system has been designed.

3.6.2 OVERTEMPERATURE TEST

A supplemental engine will be subjected to an observed turbine discharge temperature (T_{t7}) 75°F higher than the recommended maximum measured gas temperature for a period of five (5) minutes.

3.6.3 OVERSPEED TEST

The spin test for evidence of acceptable overspeed integrity of compressor and turbine discs shall consist of rotating the discs at 120 percent design maximum rotor speed with the disc rim and bore heated to actual operating temperatures.

3.6.4 DISC AND BLADE STRESS

The absence of excessive vibratory stress levels in compressor and turbine blades and discs shall be substantiated. Blade and disc vibratory stress data obtained from engine and rig tests shall be used as the basis for this substantiation.

3.7 (ref. CAR 13.217) THRUST RESPONSE
Substantiation of adequate thrust response characteristics shall be based on data obtained during the Block tests.

3.8 (ref. CAR 13.250-257) BLOCK TESTS
The Block Test shall be conducted in accordance with CAR 13.250 to 13.257 with modifications and additions to the endurance portion of the test as specified below. The engine shall be equipped with an ejector reverser for these tests.

3.8.1 ENDURANCE TEST

The 150 hour endurance test shall be conducted. Sixty hours shall be conducted at sea level test conditions and ninety hours at heated inlet conditions. The test, divided into two parts, shall be conducted as described in paragraphs 3.8.1.1 and 3.8.1.2.

3.8.1.1 SEA LEVEL ENDURANCE

The engine shall be subjected to a 60 hour sea level ambient inlet air endurance test consisting of five cycles of run a. through e. and 20 cycles consisting of run a. and e. only, as listed below.

a. Take-off - Idle thrust run
This run shall consist of 5 successive periods of 10 minutes each, including 5 minutes at Take-off fully augmented thrust and 5 minutes at Idle; followed by one period of 10 minutes, including 5 minutes at Take-off non-augmented thrust and 5 minutes at Idle.

b. Maximum run
The run shall consist of 30 minutes of operation at Maximum thrust. Two runs shall be at full augmentation and three runs shall be non-augmented.

c. Maximum run
This run shall consist of two hours and 30 minutes at Maximum non-augmented thrust.

d. Incremental Maximum run
This run shall consist of 15 minutes of operation at each of 6 approximately equal steps between Maximum non-augmented thrust and 85% Maximum non-augmented thrust.

e. Acceleration and deceleration runs
This run shall consist of a 30 minute period of six thrust transients. Ten (10) runs shall consist of transients from Flight Idle thrust to Maximum fully augmented thrust, remaining at Maximum fully augmented for 30 seconds ± 3 seconds, retarding to Flight Idle conditions, and maintained at Idle conditions for approximately 4 minutes. Fifteen (15) runs shall consist of transients from Minimum Ground Idle thrust to Take-off fully augmented thrust, remaining at Take-off fully augmented thrust for 30 seconds ±3 seconds, and retarding to Minimum Ground Idle for approximately 4 minutes.

3.8.1.2 HEATED INLET AIR ENDURANCE TEST

Following the ambient sea level endurance test a 90 hour heated inlet air endurance test consisting of 10 cycles of runs a through d and an additional 10 cycles of runs c and d as listed below, shall be conducted. During this test the inlet air, and the air which passes over the engine, shall be heated to simulate conditions at supersonic transport cruise Mach No., standard day. For all power lever movements, the power lever shall be advanced or retarded as applicable, in not more than one minute. The time for changing thrust shall be charged to the duration time at the lower setting.

a. Take-off run
This run shall consist of 30 minutes of operation at Take-off thrust. Eight runs shall be with full augmentation and two runs shall be without augmentation.

b. Maximum run
This run shall consist of 30 minutes of operation at Maximum augmented thrust.

c. Maximum run
This run shall consist of 2 hours and 30 minutes of operation at Maximum augmented thrust.

d. Incremental Maximum run
This run shall consist of 15 minutes of operation at each of six approximately equal steps between Maximum fully augmented thrust and Maximum non-augmented thrust.

3.8.2 ALTITUDE TEST

An engine, substantially identical to but not necessarily the same engine which completed the sea level and heated inlet endurance tests above, shall be subjected to altitude tests to demonstrate altitude performance requirements specified for the selected aircraft manufacturer. The altitude test procedure shall be negotiated. Structural and performance capability of the exhaust system to operate under pressure ratio conditions expected in flight shall be demonstrated as a part of this test.

3.8.3 ENGINE COMPONENTS

For those components which cannot be adequately substantiated by the endurance testing portion of the entire engine and where component environment temperatures must be established, functional tests shall be conducted.

3.8.4 GEARBOX SUBSTANTIATION

A 150 hour laboratory test with accessory drives loaded to the continuous torque ratings shall demonstrate satisfactory durability, fulfilling the requirements of CAR Part 13.250. The accessory drives shall also be subjected to static overload torque values for proof of adequacy in sustaining static overload torque.

PRATT & WHITNEY AIRCRAFT

Division of United Aircraft Corporation
East Hartford 8, Connecticut, U.S.A.

Model STF219-B
Spec. No. 2681
Appendix C

ESTIMATED EJECTOR - REVERSER PERFORMANCE

STF219-B

1. INSTALLATION DATA AND DESCRIPTION

Configuration and mounting details are as shown on Installation Drawing No. 537101 Sheet 1. The Ejector-Reverser System consists of the following major components and assemblies:

Mounting Flange
Forebody and Fairing
Support Struts
Hydraulic Actuating Cylinders and
Mechanical Linkages
Blow-in-Doors
Ejector Shroud
Reverser Flaps
Trailing Edge Flaps

2. DESCRIPTION (Functional)

The blow-in-door ejector is basically an infinitely variable, self-actuated nozzle which aerodynamically adjusts itself to the correct expansion ratio as engine pressure ratio and flight Mach number vary. The nacelle contour, or forebody, blends into a type of flush inlet formed between the forebody and the ejector shroud. A set of self-actuated "blow-in-doors" open or close this passage. Attached to the ejector shroud are a set of self-actuated trailing edge flaps, which vary the ejector exit area. Secondary airflow is passed between the variable fan discharge and the forebody to help reduce internal base areas and to cool the shroud and trailing edge flaps during augmentation.

2. DESCRIPTION (Cont'd)

At high nozzle pressure ratios where large nozzle area expansion ratios are required, the blow-in doors close and the trailing edge flaps open. In this case the pressures on the inner surface of the doors and flaps are greater than the pressures on the outside, thereby providing an aerodynamic moment. As the pressure ratio begins to decrease, the pressure on the inner surfaces of the trailing edge flaps decrease relative to those on the outside. This causes the flaps to move inward to provide the correct nozzle expansion ratios. The flaps will continue to move inwards with decreasing nozzle pressure ratio until the inner mechanical stop is reached. Further reduction in nozzle pressure ratio results in a continued decrease of the internal pressure relative to the external pressures until the blow-in-doors begin to open allowing external (tertiary) air to enter and aerodynamically control the primary nozzle expansion ratio by filling the exit base area, thus assuring high performance characteristics at off design operation.

For thrust reversal, a set of 12 flaps, stored in the ejector shroud, are actuated to restrict the normal exhaust exit area. Simultaneously, seven of the blow-in-doors are held open, forming the passage for the reversed flow. In the stowed position the reverser flaps blend with the ejector inner wall. Hydraulic actuating cylinders for these reversing functions are contained within the structure and control is integrated with the engine control system in a manner to make the reverse actuation a function of power lever position. The reversing system is designed for ground and subsonic flight operation within the operating envelope shown in Curve T-1688 Sheet 75. In addition, the basic reversing system is used for the "null thrust" feature by providing another position for the 12 reverser flaps.

3. PERFORMANCE

3.1 ESTIMATED PERFORMANCE

Estimated ejector performance for the basic engine and for the initial production engine shall be as shown in Curve No. T-1688 Sheets 60 through 74 .

3.2 PERFORMANCE GUARANTEES

All guaranteed ejector performance is based on the use of secondary airflow, defined as $(W_S \sqrt{T_{TS}})/W_P \sqrt{T_{TP}})$. A minimum of two per cent is required at all conditions (excluding Take Off, which will require no secondary flow) except when operating above 70 percent of maximum duct heat with closed blow-in-doors. At or above these conditions, a minimum of 3 per cent cooling flow is required. The guaranteed performance is further based on an isolated scale model configuration tested in a free flow field with nacelle diameter and ejector length not in excess of that shown on installation drawing 537101, sheet 1.

3.2.1 TAKE-OFF SEA LEVEL STATIC

Thrust specific fuel consumption for the STF219B engine with an ejector-reverser design of general size and shape typified on Installation Drawing No. 537101, sheet 1 and with the reverser in stowed position, will be 0.5 percent greater than that shown on Page 1 of the basic specification. Minimum jet thrust will be equal to the guaranteed values shown on Page 1 of the basic specification minus 0.5 percent. The performance referred to in this paragraph is defined as integral engine performance and does not include possible effects of external aerodynamic losses (such as scrubbing or base drag) which may result from arrangement or exposure of external surfaces.

3.2.2 EJECTOR EFFECT ON PERFORMANCE

For the ejector described above, the effect on performance is as shown below where c_{f_p} is defined as the sum of the gross thrust from the primary stream, the gross thrust of any secondary and tertiary streams, minus the sum of the external pressure or wave drag, the internal drag, and the ram drag of any tertiary air, all divided by the ideal gross thrust of the primary stream.

BASIC ENGINE

Power Setting	Mach. No.	Alt. Ft.	Lb F_n Incl. Ejector Effect	C_{f_p} $*W_S$ = .02
Maximum				
Max D/H	0	SL	52200	.98
Min D/H	0	SL	38800	.98
No D/H	0	SL	33700	.98
Max D/H	1.2	36150	27700	.962
Cruise				
Partial D/H	2.7	65000	12600	.999
Part Power	.8	36150	4800	.941
Part Power	.4	15000	4800	.958

INITIAL PRODUCTION ENGINE

Power Setting	Mach. No.	Alt. Ft.	Lb F_n Incl. Ejector Effect	C_{f_p} $*W_S$ = .02
Maximum				
Max D/H	0	SL	47700	.98
Min D/H	0	SL	34400	.98
No D/H	0	SL	29200	.98
Max D/H	1.2	36150	25700	.960
Cruise				
Partial D/H	2.7	65000	12600	.997
Part Power	.8	36150	4800	.945
Part Power	.4	15000	4800	.954

$$*W_S = \frac{Was}{Wap}\sqrt{\frac{T_{TS}}{T_{TP}}}$$

3.2.3 REVERSE THRUST

The reversing system described above is designed to provide a maximum total reverse thrust of 35% of the net thrust of the basic engine at a gas generator point equivalent to 28,300 lbs. forward net thrust at standard sea level static conditions when reingestion of exhaust gases from the engine is not experienced.

4. PERFORMANCE DEMONSTRATION

In the event that aircraft performance indicates the need for demonstration of performance guarantees as in paragraph 3 above, Pratt & Whitney Aircraft will conduct special laboratory tests in United Aircraft Corporation test facilities using standard calibration equipment and methods to demonstrate conformance with the guarantee points. Demonstration of items 4.1 and 4.3 will be made using a new production engine.

4.1 TAKE-OFF PERFORMANCE

The quoted rating is attainable at the specified conditions on a test stand approved by Pratt & Whitney Aircraft.

4.2 WINDTUNNEL MODEL PERFORMANCE

The quoted performance as expressed in values of C_{f_p} will be demonstrated and substantiated by scale model test in a free flow field.

4.3 REVERSE THRUST

The quoted rating is attainable at the specified condition on a test stand approved by Pratt & Whitney Aircraft.

TABULATED DATA

This tabulated data presents engine performance for selected operating conditions. The fourth line of each table identifies the engine power setting. At the extreme left of this line the main engine setting is given and the duct heater setting heads appropriate data columns. Data in the columns between maximum duct heat and minimum duct heat are at intermediate levels of duct heating. All Part Power engine settings are without duct heating.

Symbols, definitions and units used in the tabulated performance are as follows:

ALT	altitude, ft.
MO	flight Mach number
VA	flight speed, Knots
WASIZE	desired design airflow size, lb/sec
PAM	ambient pressure, psia
TAM	ambient temperature, °R
PT2/PT2P	ram recovery
PT2	compressor inlet total pressure, psia
TT2	compressor inlet total temperature, °R
WBL3	fan bleed, lb/sec
WBL4	high pressure compressor bleed, lb/sec
HPEXT	horsepower extracted, HP
Power Setting	
FNT	total net thrust for C_V = 0.985 and no ram drag correction for secondary flow
FGT	total gross thrust for C_V = [illegible]
WAT	uncorrected total powerplant airflow, lb/sec
WFT	total fuel flow, lb/hr
TSFC	thrust specific fuel consumption, lb/hr/lb
BPR	bypass ratio, duct flow over gas generator flow
WAT2	corrected total powerplant airflow, $\frac{Wa\sqrt{\theta t2}}{t2}$, lb/sec
N1	low pressure rotor speed, rpm
N2	high pressure rotor speed, rpm
PT3D	total pressure at fan discharge, psia
PT4	total pressure at high pressure compressure discharge, psia

TT3D	total temperature at fan discharge, °R
TT4	total temperature at high pressure compressor discharge, °R
PT9	total pressure at gas generator nozzle throat, psia
PTD	total pressure at duct nozzle throat, psia
TT9	total temperature at gas generator nozzle throat, °R
TTD	total temperature at duct nozzle throat, °R
WAS/WAP*	secondary to primary airflow ratio
C_D TOT	total duct loss correction factor
VENG	velocity at gas generator nozzle throat, ft/sec
VDUCT	velocity at duct nozzle throat, ft/sec
AJCDE	gas generator nozzle effective throat area, sq. ft.
AJCDD	duct nozzle effective throat area, sq. ft.

* The effect of secondary flow on ram drag is not included in the total net thrust.

Data for the three airflow schedules shown on Sheet 1 of the performance curves are presented where applicable. The high and low airflow schedule data represent the maximum and minimum airflow schedule limits within the specified engine envelope and weight.

Linear interpolation of the tabulated data for airbleed and power extraction may be made up to the allowable limits specified.

PERFORMANCE WITHOUT AIRBLEED AND WITHOUT POWER EXTRACTION

Pages	T_{AMB}	Power Setting	Flow Schedule
B-D4	STD. Day	Take-Off	Base
B-D5	STD. +27°F	Take-Off	Base
B-D6 to B-D14	STD. Day	Max Thrust	Base
B-D15 to B-D16	STD. Day	Max Thrust	High
B-D17 to B-D18	STD. Day	Max Thrust	Low
B-D19 to B-D26	STD. +20	Max Thrust	Base
B-D27 to B-D28	STD. Day	Cruise	Base
B-D29 to B-D30	STD. Day	Cruise	High
B-D31 to B-D32	STD. Day	Cruise	Low
B-D33 to B-D34	STD. +20°F	Cruise	Base
B-D35 to B-D36	STD. +20	Cruise	High
B-D37 to B-D38	STD. +20	Cruise	Low
B-D39 to B-D43	STD. Day	Part Power	Base
B-D44 to B-D47	STD. +27	Part Power	Base

ALT	0	WASSIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.	PAM	14.7	PT2	14.7	WBL4	0.
VA KTS	0	TAM	519	TT2	519	WPERT	0.

TAKE OFF MAX D/H — MIN D/H NOT LIT

FNT	55981	52720	51186	49552	47933	46172	41533	36067
FGT	55981	52720	51186	49552	47933	46172	41533	36067
WAT	640	640	640	640	640	640	640	640
WFT	101807	82407	74559	67242	60566	54218	40448	27222
TSFC	1.819	1.563	1.457	1.356	1.264	1.174	0.976	0.795
RFR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	640	640	640	640	640	640	640	640
N1	5907	5907	5907	5907	5907	5907	5907	5954
N2	7989	7989	7989	7989	7989	7989	7989	8048
PT3D	39.7	39.7	39.7	39.7	39.7	39.7	39.7	41.5
PT4	176.6	176.6	176.6	176.6	176.6	176.6	176.6	181.3
TT3D	726	726	726	726	726	726	726	739
TT4	1128	1128	1128	1128	1128	1128	1128	1149
PT9	31.7	31.7	31.7	31.7	31.7	31.7	31.7	32.9
PTD	35.4	36.0	36.3	36.6	36.9	37.1	37.6	39.0
TT9	1989	1989	1989	1989	1989	1989	1989	1989
TTD	3560	3000	2750	2500	2250	2000	1408	738
WAS/WAP	0.0471	0.0444	0.0432	0.0419	0.0405	0.0392	0.0358	0.0315
WENG	1970	1970	1970	1970	1970	1970	1970	1970
WDUCT	2617	2407	2307	2203	2093	1976	1647	1216
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.93	7.98	7.45	6.99	6.54	6.08	4.99	3.29

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ALT	0	WASSIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.20	PAM	14.7	PT2	15.1	WBL4	0.
VA KTS	152	TAM	519	TT2	529	WPERT	0.

TAKE OFF MAX D/H — MIN D/H NOT LIT

FNT	53114	49742	48158	46511	44798	42981	38220	32609
FGT	57662	54270	52684	51040	49327	47510	42769	37134
WAT	653	653	653	653	653	653	653	653
WFT	99354	80364	72707	65547	59017	52806	39394	26673
TSFC	1.871	1.616	1.510	1.409	1.317	1.229	1.031	0.812
RFR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.29
WAT2	637	637	637	637	637	637	637	637
N1	5895	5895	5895	5895	5895	5895	5895	5965
N2	7998	7998	7998	7998	7998	7998	7998	8013
PT3D	40.4	40.4	40.4	40.4	40.4	40.4	40.4	42.3
PT4	177.6	177.6	177.6	177.6	177.6	177.6	177.6	184.6
TT3D	729	729	729	729	729	729	729	743
TT4	1132	1132	1132	1132	1132	1132	1132	1148
PT9	32.3	32.3	32.3	32.3	32.3	32.3	32.3	33.4
PTD	36.0	36.7	37.0	37.3	37.6	37.8	38.3	40.0
TT9	1989	1989	1989	1989	1989	1989	1989	1938
TTD	3560	3000	2750	2500	2250	2000	1411	743
WAS/WAP	0.0469	0.0443	0.0431	0.0418	0.0404	0.0391	0.0357	0.0314
WENG	1970	1970	1970	1970	1970	1970	1970	1969
WDUCT	2617	2407	2307	2203	2093	1976	1640	1217
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.96	7.93	7.47	7.02	6.58	6.10	4.98	3.23

SEP 29, 1964

ALT	0	WASSIZE	640	PT2/PT2P	1.000	WBL3	0.	
MO	0.40	PAM	14.7	PT2	16.4	WBL4	0.	
VA KTS	265	TAM	519	TT2	555	WPERT	0.	

TAKE OFF MAX D/H — MIN D/H NOT LIT

FNT	53096	49388	47648	45842	43966	41973	36862	30762
FGT	62686	58978	57238	55432	53556	51563	46452	40332
WAT	691	691	691	691	691	691	691	691
WFT	104486	84905	76270	68677	61754	55170	41136	27458
TSFC	1.968	1.709	1.601	1.498	1.405	1.314	1.117	0.893
RFR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.31
WAT2	629	629	629	629	629	629	629	629
N1	5859	5859	5859	5859	5859	5859	5859	5913
N2	8026	8026	8026	8026	8026	8026	8026	8045
PT3D	42.7	42.7	42.7	42.7	42.7	42.7	42.7	44.7
PT4	186.3	186.3	186.3	186.3	186.3	186.3	186.3	194.1
TT3D	732	738	738	738	738	738	738	752
TT4	1144	1144	1144	1144	1144	1144	1144	1164
PT9	33.8	33.8	33.8	33.8	33.8	33.8	33.8	35.1
PTD	37.9	38.6	38.9	39.2	39.5	39.8	40.3	43.1
TT9	1988	1988	1988	1988	1988	1988	1988	1987
TTD	3560	3000	2750	2500	2250	2000	1419	752
WAS/WAP	0.0464	0.0438	0.0426	0.0413	0.0400	0.0386	0.0359	0.0310
WENG	1970	1970	1970	1970	1970	1970	1970	1969
WDUCT	2617	2407	2308	2203	2093	1976	1673	1226
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	9.08	8.02	7.57	7.11	6.64	6.17	5.09	3.28

SEP 29, 1964

ALT	4000	WASSIZE	640	PT2/PT2P	1.000	WBL3	0.	
MO	0.	PAM	11.8	PT2	11.8	WBL4	0.	
VA KTS	0	TAM	497	TT2	497	WPERT	0.	

TAKE OFF MAX D/H — MIN D/H NOT LIT

FNT	48073	45269	43952	42585	41161	39654	35565	30791
FGT	48073	45269	43952	42585	41161	39654	35565	30791
WAT	536	536	536	536	536	536	536	536
WFT	85218	67665	61109	55196	49782	44644	33203	22494
TSFC	1.731	1.490	1.390	1.296	1.205	1.126	0.934	0.731
RFR	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28
WAT2	655	655	655	655	655	655	655	655
N1	5962	5962	5962	5962	5962	5962	5962	6084
N2	7934	7934	7934	7934	7934	7934	7934	7942
PT3D	33.3	33.3	33.3	33.3	33.3	33.3	33.3	34.8
PT4	144.8	144.8	144.8	144.8	144.8	144.8	142.8	151.7
TT3D	708	708	708	708	708	708	708	721
TT4	1104	1104	1104	1104	1104	1104	1104	1119
PT9	26.8	26.8	26.8	26.8	26.8	26.8	26.8	27.9
PTD	29.7	30.3	30.5	30.7	31.0	31.2	31.6	33.6
TT9	1960	1960	1960	1960	1960	1960	1960	1930
TTD	3560	3000	2750	2500	2250	2000	1391	721
WAS/WAP	0.0481	0.0454	0.0441	0.0428	0.0415	0.0401	0.0365	0.0321
WENG	1971	1971	1971	1971	1971	1971	1971	1970
WDUCT	2617	2407	2307	2203	2093	1976	1657	1201
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	8.88	7.85	7.40	6.95	6.50	6.04	4.87	3.14

SEP 30, 1964

ALT	6000	WASSIZE	640	PT2/PT2P	1.000	WBL3	0.	
MO	0.70	PAM	11.8	PT2	12.1	WBL4	0.	
VA KTS	130	TAM	497	TT2	501	WPERT	0.	

TAKE OFF MAX D/H — MIN D/H NOT LIT

FNT	45799	42896	41538	40175	38656	37100	32910	27898
FGT	49516	46613	45255	43840	42371	40815	36625	31465
WAT	547	547	547	547	547	547	547	547
WFT	83458	67661	61255	55516	49874	44711	33279	22417
TSFC	1.622	1.377	1.279	1.178	1.290	1.205	1.011	0.805
RFR	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28
WAT2	652	652	652	652	652	652	652	652
N1	5953	5953	5953	5953	5953	5953	5953	5984
N2	7965	7965	7965	7965	7965	7965	7965	7980
PT3D	34.0	34.0	34.0	34.0	34.0	34.0	34.0	35.4
PT4	148.6	148.6	148.6	148.6	148.6	148.6	148.6	155.7
TT3D	712	712	712	712	712	712	712	726
TT4	1139	1139	1139	1139	1139	1139	1139	1174
PT9	27.2	27.2	27.2	27.2	27.2	27.2	27.2	28.3
PTD	30.3	30.9	31.2	31.4	31.6	31.8	32.2	34.3
TT9	1960	1960	1960	1960	1960	1960	1960	1940
TTD	1960	1960	1960	1960	1960	1960	1960	774
WAS/WAP	0.0476	0.0452	0.0439	0.0426	0.0413	0.0399	0.0365	0.0318
WENG	1970	1970	1970	1970	1970	1970	1970	1970
WDUCT	2617	2407	2307	2203	2093	1976	1659	1201
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.87	7.84	7.39	6.94	6.49	6.04	4.88	3.19

SEP 30, 1964

ALT	6000	WASSIZE	640	PT2/PT2P	1.000	WBL3	0.	
MO	0.90	PAM	11.8	PT2	13.2	WBL4	0.	
VA KTS	259	TAM	497	TT2	513	WPERT	0.	

TAKE OFF MAX D/H — MIN D/H NOT LIT

FNT	45959	42780	41293	39751	38148	36451	31950	26618
FGT	53825	50651	49164	47622	46019	44322	39820	34489
WAT	579	579	579	579	579	579	579	579
WFT	87417	71186	64429	58123	52369	46980	34967	23568
TSFC	1.913	1.664	1.560	1.462	1.373	1.287	1.096	0.885
RFR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	644	644	644	644	644	644	644	644
N1	5918	5918	5918	5918	5918	5918	5918	5964
N2	7970	7970	7970	7970	7970	7970	7970	7983
PT3D	35.9	35.9	35.9	35.9	35.9	35.9	35.9	37.5
PT4	156.8	156.8	156.8	156.8	156.8	156.8	156.8	164.8
TT3D	721	721	721	721	721	721	721	734
TT4	1122	1122	1122	1122	1122	1122	1122	1137
PT9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	29.8
PTD	31.9	32.6	32.8	33.1	33.3	33.5	34.0	36.2
TT9	1960	1960	1960	1960	1960	1960	1960	1784
TTD	3560	3000	2750	2500	2250	2000	1403	774
WAS/WAP	0.0473	0.0447	0.0434	0.0421	0.0408	0.0394	0.0360	0.0316
WENG	1970	1970	1970	1970	1970	1970	1970	1970
WDUCT	2617	2407	2307	2203	2093	1976	1644	1211
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	8.98	7.91	7.44	7.01	6.55	6.09	4.96	3.19

SEP 30, 1964

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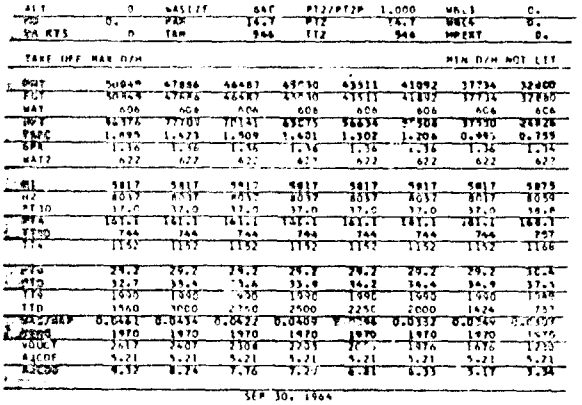
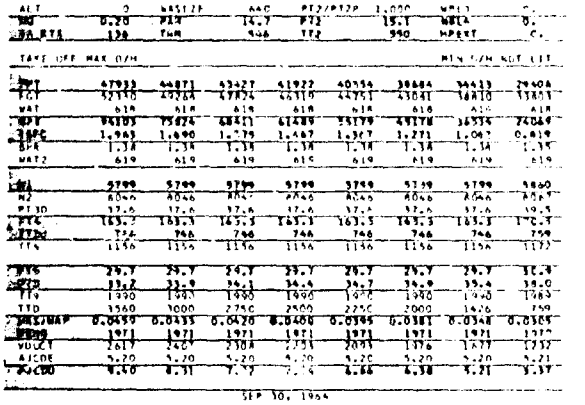


SEP 30, 1964



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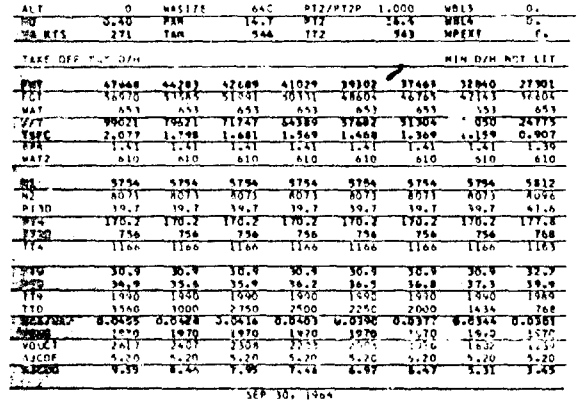
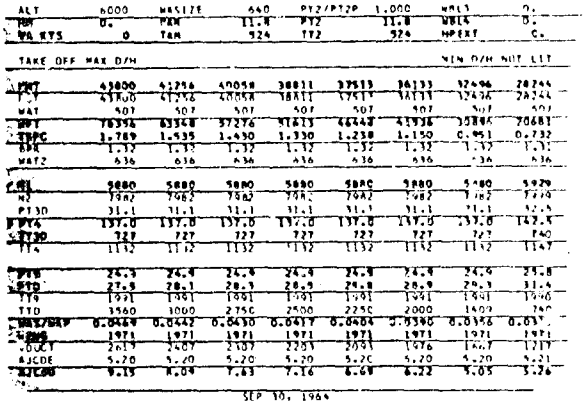
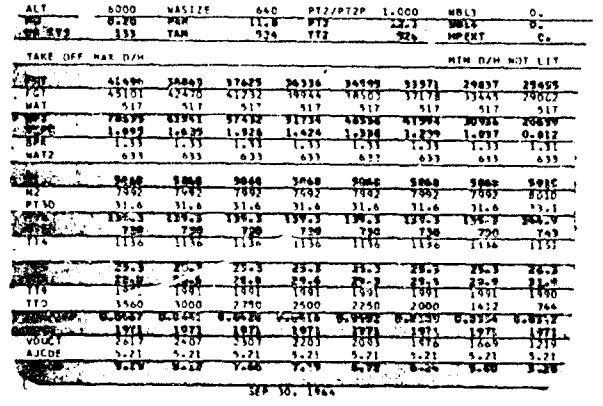


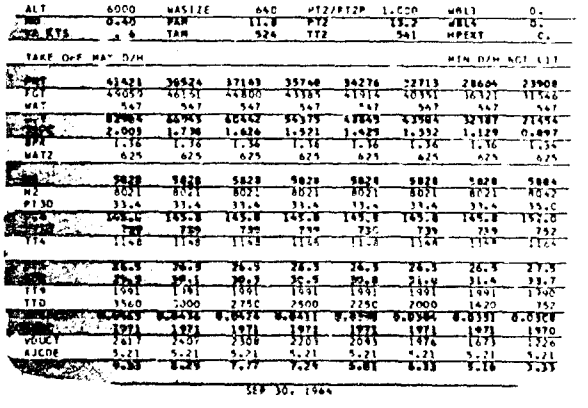
SEP 30, 1964



SEP 30, 1964



SEP 30, 1964



SEP 30, 1964

ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MU	0.20	PAM	14.7	PT2	14.7	WBL4	0.	
VA KTS	0	TAM	519	TT2	519	WPEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	55961	52720	51146	49559	47933	46172	41533	36767
FGT	55961	52720	51146	49552	47919	46172	41533	36767
WAT	640	640	640	640	640	640	640	640
WFT	101867	82407	74559	67242	60466	54218	40414	27222
TSFC	1.419	1.543	1.497	1.356	1.264	1.174	0.976	0.755
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	640	640	640	640	640	640	640	640
N1	5907	5907	5907	5907	5907	5907	5907	5954
N2	7989	7989	7989	7989	7989	7989	7989	8033
PT3D	39.7	39.7	39.7	39.7	39.7	39.7	39.7	41.5
PT4	174.6	174.6	174.6	174.6	174.6	174.6	174.6	181.3
TT3D	726	726	726	726	726	726	726	739
TT4	1128	1128	1128	1128	1128	1128	1128	1143
PT9	31.7	31.7	31.7	31.7	31.7	31.7	31.7	32.9
PTD	35.4	36.0	36.3	36.6	36.9	37.1	37.6	40.0
TT9	1949	1946	1946	1939	1939	1939	1939	1988
TTD	3560	3300	2750	2500	2250	2000	1438	739
WAS/WAP	0.0471	0.0444	0.0432	0.0419	0.0406	0.0392	0.0358	0.0315
VENG	1970	1970	1970	1970	1970	1970	1970	1970
VDUCT	2617	2407	2307	2203	2093	1976	1667	1216
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.93	7.90	7.45	6.99	6.54	6.08	4.94	3.20

SEP 25, 1964

ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MU	0.20	PAM	14.7	PT2	15.1	WBL4	0.	
VA KTS	132	TAM	519	TT2	523	WPEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	53114	49742	48158	46511	44798	42981	38220	32405
FGT	57642	54272	52686	51040	49327	47510	42749	37134
WAT	653	657	653	653	655	653	653	653
WFT	99354	82384	72937	65647	59017	52606	39594	26473
TSFC	1.871	1.616	1.510	1.409	1.317	1.229	1.031	0.812
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.29
WAT2	637	637	637	637	637	637	637	637
N1	5895	5895	5895	5895	5895	5895	5895	5945
N2	7998	7998	7998	7998	7998	7998	7998	8043
PT3D	40.4	40.4	40.4	40.4	40.4	40.4	40.4	42.3
PT4	177.6	177.6	177.6	177.6	177.6	177.6	177.6	184.6
TT3D	729	729	729	729	729	729	729	743
TT4	1132	1132	1132	1132	1132	1132	1132	1148
PT9	32.3	32.3	32.3	32.3	32.3	32.3	32.3	33.4
PTD	36.6	36.7	37.0	37.3	37.6	37.8	38.3	40.8
TT9	1989	1989	1989	1989	1989	1989	1989	1988
TTD	3560	3300	2750	2500	2250	2000	1411	743
WAS/WAP	0.0469	0.0443	0.0431	0.0418	0.0404	0.0391	0.0357	0.0314
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2307	2203	2093	1976	1667	1218
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.96	7.93	7.47	7.02	6.56	6.10	4.96	3.21

SEP 25, 1964

ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MU	0.60	PAM	14.7	PT2	16.4	WBL4	0.	
VA KTS	265	TAM	519	TT2	535	WPEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	53096	49388	47648	45842	43964	41973	36842	30742
FGT	62686	58978	57238	55432	53554	51563	46432	40332
WAT	691	691	691	691	691	691	691	691
WFT	104486	84405	76270	68677	61754	55170	41134	27458
TSFC	1.968	1.769	1.631	1.498	1.400	1.314	1.117	0.893
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.31
WAT2	629	629	629	629	629	629	629	629
N1	5859	5859	5859	5859	5859	5859	5859	5913
N2	8026	8026	8026	8026	8026	8026	8026	8045
PT3D	42.7	42.7	42.7	42.7	42.7	42.7	42.7	44.7
PT4	186.3	186.3	186.3	186.3	186.3	186.3	186.3	194.1
TT3D	738	738	738	738	738	738	738	752
TT4	1144	1144	1144	1144	1144	1144	1144	1160
PT9	33.8	33.8	33.8	33.8	33.8	33.8	33.8	35.1
PTD	37.9	38.6	38.9	39.2	39.5	39.8	40.3	43.1
TT9	1988	1988	1988	1988	1988	1988	1988	1987
TTD	3560	3300	2750	2500	2250	2000	1419	752
WAS/WAP	0.0464	0.0438	0.0426	0.0413	0.0400	0.0386	0.0353	0.0310
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1673	1226
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.08	8.03	7.57	7.11	6.64	6.17	5.04	3.26

SEP 25, 1964

ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MU	0.60	PAM	14.7	PT2	18.7	WBL4	0.	
VA KTS	397	TAM	519	TT2	556	WPEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	55654	51346	49330	47237	45065	42763	36978	29987
FGT	71617	67110	65043	63000	60828	58526	52741	45750
WAT	757	757	757	757	757	757	757	757
WFT	114486	92199	83155	74706	67005	59680	44393	29195
TSFC	2.057	1.798	1.686	1.582	1.487	1.396	1.201	0.976
BPR	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.35
WAT2	615	615	615	615	615	615	615	615
N1	5787	5787	5787	5787	5787	5787	5787	5851
N2	8071	8071	8071	8071	8071	8071	8071	8093
PT3D	46.4	46.4	46.4	46.4	46.4	46.4	46.4	48.7
PT4	199.8	199.8	199.8	199.8	199.8	199.8	199.8	208.9
TT3D	753	753	753	753	753	753	753	766
TT4	1162	1162	1162	1162	1162	1162	1162	1179
PT9	36.2	36.2	36.2	36.2	36.2	36.2	36.2	37.8
PTD	41.0	41.8	42.2	42.5	42.8	43.1	43.7	46.9
TT9	1988	1988	1988	1988	1988	1988	1989	1987
TTD	3560	3090	2750	2500	2250	2000	1432	766
WAS/WAP	0.0457	0.0430	0.0418	0.0405	0.0392	0.0379	0.0346	0.0306
VENG	1970	1972	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1680	1237
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.34	8.26	7.78	7.30	6.82	6.34	5.20	3.36

SEP 25, 1964

ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MU	0.79	PAM	14.7	PT2	20.4	WBL4	0.	
VA KTS	463	TAM	519	TT2	569	WPEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	57912	53180	50967	48672	46290	43769	37538	29862
FGT	77380	72648	70435	68140	65758	63236	57006	49310
WAT	802	802	802	802	802	802	802	802
WFT	121246	97432	87760	78720	70478	62641	46517	30205
TSFC	2.094	1.832	1.722	1.617	1.523	1.431	1.239	1.012
BPR	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.39
WAT2	606	606	606	606	606	606	606	606
N1	5760	5760	5760	5760	5760	5760	5760	5799
N2	8098	8098	8098	8098	8098	8098	8098	8121
PT3D	49.1	49.1	49.1	49.1	49.1	49.1	49.1	51.3
PT4	208.2	208.2	208.2	208.2	208.2	208.2	208.2	217.6
TT3D	762	762	762	762	762	762	762	776
TT4	1173	1173	1173	1173	1173	1173	1173	1190
PT9	37.7	37.7	37.7	37.7	37.7	37.7	37.7	39.4
PTD	43.2	44.0	44.4	44.8	45.1	45.4	46.1	49.3
TT9	1988	1988	1988	1988	1988	1988	1988	1987
TTD	3560	3090	2750	2500	2250	2000	1440	776
WAS/WAP	0.0452	0.0426	0.0414	0.0401	0.0388	0.0374	0.0342	0.0300
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1685	1244
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	9.49	8.36	7.90	7.42	6.93	6.44	5.29	3.45

SEP 25, 1964

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MU	0.23	PAM	8.5	PT2	8.5	WBL4	0.	
VA KTS	125	TAM	465	TT2	469	WPEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	35772	33514	32456	31359	30215	29011	25607	21670
FGT	38475	36217	35160	34063	32918	31714	28310	24373
WAT	411	411	411	411	411	411	411	411
WFT	63333	51421	46635	42166	38105	34237	25311	17237
TSFC	1.770	1.534	1.437	1.346	1.261	1.180	0.988	0.795
BPR	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
WAT2	674	674	674	674	674	674	674	674
N1	6045	6045	6045	6045	6045	6045	6045	6083
N2	7885	7885	7885	7885	7885	7885	7885	7910
PT3D	25.6	25.6	25.6	25.6	25.6	25.6	25.6	26.7
PT4	112.7	112.7	112.7	112.7	112.7	112.7	112.7	118.6
TT3D	683	683	683	683	683	683	683	695
TT4	1073	1073	1073	1073	1073	1073	1073	1088
PT9	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.3
PTD	22.8	23.3	23.6	23.8	23.8	23.9	24.3	25.8
TT9	1993	1993	1993	1993	1993	1993	1993	1992
TTD	3560	3090	2750	2500	2250	2000	1368	695
WAS/WAP	0.0495	0.0467	0.0454	0.0441	0.0427	0.0413	0.0376	0.0328
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2407	2307	2203	2093	1976	1643	1179
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.86	7.83	7.38	6.93	6.48	6.02	4.81	3.08

SEP 25, 1964

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DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	0.60	PAM	8.3	PT2	9.3	WBL4	0.	
VA KTS	351	TAM	465	TT2	480	WFEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	36171	33693	32535	31334	30083	28769	25117	20865
FGT	41908	39431	38272	37072	35821	34506	30855	26582
WAT	436	436	436	436	436	436	436	436
WFT	60959	54332	49256	44529	40193	36086	26739	18169
TSFC	1.451	1.413	1.414	1.411	1.338	1.254	1.065	0.872
BPR	1.29	1.27	1.25	1.29	1.29	1.29	1.29	1.28
WAT2	666	666	666	666	666	666	666	666
N1	6006	6006	6006	6006	6006	6006	6006	6045
N2	7896	7896	7896	7896	7896	7896	7896	7916
PT3D	27.1	27.1	27.1	27.1	27.1	27.1	27.1	28.3
PT4	119.5	119.5	119.5	119.5	119.5	119.5	119.5	123.8
TT3D	693	693	693	693	693	693	693	705
TT4	1085	1085	1085	1085	1085	1085	1085	1100
PT9	21.8	21.8	21.8	21.8	21.8	21.8	21.8	22.6
PTD	24.2	24.7	24.9	25.0	25.2	25.4	25.7	27.4
TT9	1942	1942	1942	1942	1942	1942	1942	1982
TTD	3560	3007	2750	2500	2250	2000	1377	705
WAS/WAP	0.0489	0.0462	0.0445	0.0426	0.0422	0.0408	0.0370	0.0329
WENG	1971	1971	1971	1971	1971	1971	1971	1971
WDUCT	2617	2407	2337	2203	2093	1976	1669	1187
AJCDE	5.20	5.23	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.67	7.84	7.35	6.96	6.69	6.63	6.84	3.11

SEP 25, 1964

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	0.60	PAM	8.3	PT2	9.6	WBL4	0.	
VA KTS	353	TAM	465	TT2	484	WFEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	37059	34611	33375	31855	30965	29162	25320	20792
FGT	44550	41903	40658	39388	38058	36654	32913	28284
WAT	456	456	456	456	456	456	456	456
WFT	69771	56587	51268	46327	41790	37562	27824	18866
TSFC	1.883	1.644	1.545	1.452	1.368	1.286	1.099	0.907
BPR	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28
WAT2	661	661	661	661	661	661	661	661
N1	5982	5982	5982	5982	5982	5982	5982	6022
N2	7908	7908	7908	7908	7908	7908	7908	7927
PT3D	24.3	24.3	24.3	24.3	24.3	24.3	24.3	25.5
PT4	124.7	124.7	124.7	124.7	124.7	124.7	124.7	129.2
TT3D	700	700	700	700	700	700	700	712
TT4	1094	1094	1094	1094	1094	1094	1094	1159
PT9	22.8	22.8	22.8	22.8	22.8	22.8	22.8	23.5
PTD	25.2	25.7	25.9	26.1	26.3	26.5	26.8	28.5
TT9	1992	1992	1992	1992	1992	1992	1992	1991
TTD	3560	3007	2750	2500	2250	2000	1384	712
WAS/WAP	0.0465	0.0438	0.0445	0.0432	0.0418	0.0404	0.0367	0.0323
WENG	1971	1971	1971	1971	1971	1971	1971	1971
WDUCT	2617	2407	2337	2203	2093	1976	1652	1191
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.90	7.87	7.42	6.97	6.61	6.65	6.87	3.13

SEP 25, 1964

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	0.60	PAM	8.3	PT2	10.6	WBL4	0.	
VA KTS	376	TAM	465	TT2	499	WFEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	39306	35526	34172	32763	31361	29851	25776	20937
FGT	47028	44472	43046	42261	40829	39319	35246	30405
WAT	492	492	492	492	492	492	492	492
WFT	73260	59365	53794	48548	43776	39245	29155	19712
TSFC	1.916	1.672	1.573	1.490	1.396	1.315	1.131	0.961
BPR	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28
WAT2	654	654	654	654	654	654	654	654
N1	5953	5953	5953	5953	5953	5953	5953	5995
N2	7928	7928	7928	7928	7928	7928	7928	7946
PT3D	29.7	29.7	29.7	29.7	29.7	29.7	29.7	31.0
PT4	131.1	131.1	131.1	131.1	131.1	131.1	131.1	135.9
TT3D	708	708	708	708	708	708	708	721
TT4	1106	1106	1106	1106	1106	1106	1106	1120
PT9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	24.7
PTD	26.4	26.9	27.1	27.3	27.5	27.7	28.1	29.9
TT9	1991	1991	1991	1991	1991	1991	1991	1991
TTD	3560	3007	2750	2500	2250	2000	1391	721
WAS/WAP	0.0490	0.0453	0.0440	0.0427	0.0416	0.0400	0.0364	0.0320
WENG	1971	1971	1971	1971	1971	1971	1971	1971
WDUCT	2617	2407	2337	2203	2093	1976	1657	1200
AJCDE	5.20	5.22	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.97	7.93	7.47	7.02	6.56	6.10	6.92	3.19

SEP 25, 1964

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	0.60	PAM	8.3	PT2	12.6	WBL4	0.	
VA KTS	401	TAM	465	TT2	525	WFEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	42244	38862	37264	35612	33901	32097	27601	21712
FGT	50491	53159	51582	49810	48149	46395	41999	36010
WAT	544	544	544	544	544	544	544	544
WFT	82476	66085	60296	54337	48901	43732	32557	21926
TSFC	1.950	1.716	1.618	1.526	1.442	1.362	1.189	1.004
BPR	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.30
WAT2	636	636	636	636	636	636	636	636
N1	5881	5881	5881	5881	5881	5881	5881	5931
N2	7989	7989	7989	7989	7989	7989	7989	8006
PT3D	33.4	33.4	33.4	33.4	33.4	33.4	33.4	35.0
PT4	147.1	147.1	147.1	147.1	147.1	147.1	147.1	153.3
TT3D	729	729	729	729	729	729	729	742
TT4	1133	1133	1133	1133	1133	1133	1133	1148
PT9	26.6	26.8	26.8	26.8	26.8	26.8	26.8	27.7
PTD	29.7	30.2	30.5	30.7	30.9	31.2	31.6	33.7
TT9	1990	1990	1990	1990	1990	1990	1990	1989
TTD	3560	3000	2750	2500	2250	2000	1410	742
WAS/WAP	0.0469	0.0442	0.0430	0.0417	0.0404	0.0390	0.0356	0.0313
WENG	1971	1971	1971	1971	1971	1971	1971	1971
WDUCT	2617	2407	2337	2203	2093	1976	1669	1214
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.11	8.05	7.59	7.13	6.66	6.19	5.03	3.25

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	1.00	PAM	8.3	PT2	15.7	WBL4	0.	
VA KTS	626	TAM	465	TT2	558	WFEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	66118	63739	61744	59687	57558	55315	49710	42746
FGT	68767	66493	62432	60435	58307	56064	50458	43496
WAT	631	631	631	631	631	631	631	631
WFT	95673	76986	69430	62316	55858	49717	36889	24129
TSFC	1.992	1.760	1.663	1.570	1.487	1.408	1.242	1.061
BPR	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.37
WAT2	613	613	613	613	613	613	613	613
N1	5769	5769	5785	5769	5769	5769	5769	5831
N2	8063	8063	8063	8063	8063	8063	8063	8085
PT3D	38.4	38.4	38.4	38.4	38.4	38.4	38.4	40.3
PT4	165.3	165.3	165.3	165.3	165.3	165.3	165.3	172.7
TT3D	752	752	752	752	752	752	752	765
TT4	1163	1163	1163	1163	1163	1163	1163	1179
PT9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	31.3
PTD	33.8	34.5	34.7	35.0	35.3	35.6	36.1	38.7
TT9	1990	1990	1990	1990	1990	1990	1990	1989
TTD	3560	3000	2750	2500	2250	2000	1431	765
WAS/WAP	0.0456	0.0430	0.0417	0.0405	0.0392	0.0378	0.0345	0.0303
WENG	1971	1971	1971	1971	1971	1971	1971	1970
WDUCT	2617	2407	2338	2203	2093	1976	1680	1236
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.51	8.45	7.91	7.43	6.94	6.45	5.28	3.42

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ALT	25000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	0.29	PAM	5.5	PT2	5.6	WBL4	0.	
VA KTS	120	TAM	453	TT2	493	WFEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	24920	23350	22613	21848	21047	20205	17629	14733
FGT	26727	25157	24621	23656	22855	22012	19437	16540
WAT	286	286	286	286	286	286	286	286
WFT	44096	35681	32333	29252	26363	23655	16981	11301
TSFC	1.769	1.529	1.436	1.339	1.253	1.171	0.983	0.767
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.30
WAT2	684	684	684	684	684	684	684	684
N1	5979	5979	5979	5979	5979	5979	5979	6014
N2	7664	7664	7664	7664	7664	7664	7664	7697
PT3D	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.8
PT4	75.9	75.9	75.9	75.9	75.9	75.9	75.9	78.5
TT3D	634	634	634	634	634	634	634	665
TT4	1011	1011	1011	1011	1012	1011	1011	1026
PT9	13.8	13.8	13.8	13.8	13.8	13.8	13.7	14.3
PTD	15.1	15.4	15.6	15.7	15.8	16.0	16.2	17.2
TT9	1900	1900	1900	1900	1900	1900	1900	1909
TTD	3560	3000	2750	2500	2250	2000	1321	665
WAS/WAP	0.0512	0.0483	0.0469	0.0455	0.0440	0.0425	0.0381	0.0332
WENG	1927	1927	1927	1927	1927	1927	1927	1927
WDUCT	2617	2407	2337	2203	2092	1976	1617	1136
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.37	8.26	7.79	7.30	6.81	6.33	4.95	3.11

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	25000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MU	0.90	PAM	5.5	PT2	6.1	WBL4	0.
VA KTS	241	TAM	430	TT2	444	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	26344	24277	23449	22591	21693	20751	17940	14735
FGT	29936	28165	27337	26478	25581	24638	21828	17622
WAT	308	308	308	308	308	308	308	308
WFT	47639	38609	35035	31679	28578	25663	18617	12519
TSFC	1.429	1.592	1.493	1.462	1.317	1.237	1.038	0.864
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
WAT2	686	686	686	686	686	686	686	686
N1	6065	6065	6065	6065	6065	6065	6065	6101
N2	7762	7762	7762	7762	7762	7762	7762	7795
PT3D	18.5	18.5	18.5	18.5	18.5	18.5	18.5	19.3
PT4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	85.4
TT3D	649	649	649	649	649	649	649	659
TT4	1036	1036	1036	1036	1036	1036	1036	1050
PT9	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.4
PTD	16.4	16.7	16.9	17.0	17.2	17.3	17.6	18.7
TT9	1949	1949	1949	1949	1949	1949	1949	1949
TTD	3560	3030	2750	2500	2250	2000	1336	859
WAS/WAP	0.0508	0.0479	0.0465	0.0452	0.0437	0.0422	0.0380	0.0332
VENG	1951	1951	1951	1951	1951	1951	1951	1950
VDUCT	2617	2407	2337	2263	2093	1976	1625	1149
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.29	8.20	7.72	7.24	6.76	6.28	4.94	3.12

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ALT	25000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MU	0.90	PAM	5.5	PT2	8.3	WBL4	0.
VA KTS	482	TAM	430	TT2	485	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	31939	29816	28144	26933	25677	24357	20730	16421
FGT	35956	34133	32461	31250	29994	28674	25047	20738
WAT	389	389	389	389	389	389	389	389
WFT	59590	48323	43747	39572	35703	32036	23719	16768
TSFC	1.972	1.648	1.556	1.469	1.390	1.315	1.146	0.979
BPR	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
WAT2	663	663	663	663	663	663	663	663
N1	5987	5987	5987	5987	5987	5987	5987	6027
N2	7889	7889	7889	7889	7889	7889	7889	7907
PT3D	24.0	24.0	24.0	24.0	24.0	24.0	24.0	25.0
PT4	106.0	106.0	106.0	106.0	106.0	106.0	106.0	109.8
TT3D	695	695	695	695	695	695	695	707
TT4	1089	1089	1089	1089	1089	1089	1089	1104
PT9	19.4	19.4	19.4	19.4	19.4	19.4	19.4	20.0
PTD	21.3	21.8	21.9	22.1	22.3	22.4	22.7	24.2
TT9	1993	1993	1993	1993	1993	1993	1993	1993
TTD	3560	3030	2750	2500	2250	2000	1379	707
WAS/WAP	0.0487	0.0460	0.0447	0.0434	0.0420	0.0406	0.0369	0.0324
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2407	2337	2263	2093	1976	1650	1189
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.98	7.94	7.48	7.02	6.56	6.10	4.90	3.14

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ALT	[illegible]	WASIZE	[illegible]	PT2/PT2P	1.000	WBL3	0.
MU	[illegible]	PAM	[illegible]	PT2	[illegible]	WBL4	0.
VA KTS	[illegible]	TAM	430	TT2	516	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	[illegible]	33312	31867	30377	29139	27712	22945	17746
FGT	[illegible]	47613	46168	44677	43439	41913	37146	32047
WAT	453	453	453	453	453	453	453	453
WFT	[illegible]	49711	47396	45444	40922	36824	27216	18957
TSFC	[illegible]	1.672	1.641	1.439	1.413	1.346	1.144	1.029
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.30
WAT2	642	642	642	642	642	642	642	642
N1	5901	5901	5901	5901	5901	5901	5901	5947
N2	7956	7956	7956	7956	7956	7956	7956	7975
PT3D	27.7	27.7	27.7	27.7	27.7	27.7	27.7	29.0
PT4	122.7	122.7	122.7	122.7	122.7	122.7	122.7	127.1
TT3D	720	720	720	720	720	720	720	733
TT4	1123	1123	1123	1123	1123	1123	1123	1139
PT9	22.1	22.1	22.1	22.3	22.3	22.3	22.4	23.1
PTD	24.6	25.1	25.3	25.5	25.7	25.8	26.2	27.9
TT9	1992	1992	1992	1992	1992	1992	1992	1991
TTD	3560	3030	2750	2500	2250	2000	1402	733
WAS/WAP	[illegible]	[illegible]	[illegible]	[illegible]	0.0493	0.0477	0.0434	0.0385
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	[illegible]	[illegible]	[illegible]	[illegible]	2093	1976	1669	1210
AJCDE	[illegible]	[illegible]	[illegible]	[illegible]	5.21	5.21	5.21	5.21
AJCDD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

OCT 7, 1964

ALT	25000	WASIZE	640	PT2/PT2P	0.997	WBL3	0.
MU	1.10	PAM	5.5	PT2	11.6	WBL4	0.
VA KTS	662	TAM	430	TT2	534	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	39090	35603	33986	32319	30596	28784	24122	18192
FGT	56137	52650	51033	49366	47643	45831	41169	35439
WAT	491	491	491	491	491	491	491	491
WFT	74673	60123	54313	48892	43949	39248	29153	19379
TSFC	1.905	1.689	1.578	1.513	1.436	1.366	1.209	1.054
BPR	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.33
WAT2	630	630	630	630	630	630	630	630
N1	5848	5848	5848	5848	5848	5848	5848	5900
N2	7999	7999	7999	7999	7999	7999	7999	8018
PT3D	29.9	29.9	29.9	29.9	29.9	29.9	29.9	31.3
PT4	131.3	131.3	131.3	131.3	131.3	131.3	131.3	136.7
TT3D	733	733	733	733	733	733	733	746
TT4	1141	1141	1141	1141	1141	1141	1141	1156
PT9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	26.8
PTD	26.4	26.9	27.1	27.4	27.6	27.8	28.2	30.2
TT9	1992	1992	1992	1992	1992	1992	1992	1991
TTD	3560	3030	2750	2500	2250	2000	1414	746
WAS/WAP	0.0465	0.0439	0.0426	0.0414	0.0400	0.0387	0.0353	0.0310
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2338	2263	2093	1976	1670	1221
AJCDE	5.20	5.20	5.26	5.20	5.20	5.20	5.20	5.21
AJCDD	9.31	8.23	7.71	7.28	6.80	6.32	5.14	3.31

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ALT	25000	WASIZE	640	PT2/PT2P	0.991	WBL3	0.
MU	1.20	PAM	5.5	PT2	13.1	WBL4	0.
VA KTS	722	TAM	430	TT2	554	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	42017	38094	36276	34402	32465	30430	25312	18936
FGT	62211	58288	56470	54596	52659	50623	45506	39130
WAT	533	533	533	533	533	533	533	533
WFT	80674	65099	58732	52728	47282	42103	31201	20441
TSFC	1.925	1.709	1.618	1.533	1.456	1.384	1.233	1.079
BPR	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.37
WAT2	616	616	616	616	616	616	616	616
N1	5778	5778	5778	5778	5778	5778	5778	5839
N2	8042	8042	8042	8042	8042	8042	8042	8064
PT3D	32.2	32.2	32.2	32.2	32.2	32.2	32.2	35.8
PT4	139.6	139.6	139.6	139.6	139.6	139.6	139.6	145.8
TT3D	767	767	767	767	767	767	767	780
TT4	1157	1157	1157	1157	1157	1157	1157	1174
PT9	25.3	25.3	25.3	25.3	25.3	25.3	25.3	26.4
PTD	28.3	28.9	29.1	29.4	29.6	29.8	30.3	32.5
TT9	1991	1991	1991	1991	1991	1991	1991	1990
TTU	3560	3000	2750	2500	2250	2000	1427	760
WAS/WAP	0.0458	0.0432	0.0419	0.0407	0.0393	0.0380	0.0347	0.0304
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2308	2203	2093	1976	1677	1232
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.57	8.45	7.96	7.47	6.98	6.48	5.30	3.42

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ALT	25000	WASIZE	640	PT2/PT2P	0.995	WBL3	0.
MU	1.30	PAM	5.5	PT2	14.9	WBL4	0.
VA KTS	783	TAM	430	TT2	575	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	45284	40850	38796	36679	34492	32194	26569	19369
FGT	69077	64642	62588	60471	58285	55986	50361	43157
WAT	579	579	579	579	579	579	579	579
WFT	88015	70608	63538	56929	50904	45175	33390	21422
TSFC	.944	1.722	1.638	1.552	1.476	1.403	1.257	1.106
BPR	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.44
WAT2	602	602	602	602	602	602	602	602
N1	5703	5703	5703	5703	5703	5703	5703	5794
N2	8085	8085	8085	8085	8085	8085	8085	8109
PT3D	34.9	34.9	34.9	34.9	34.9	34.9	34.9	38.6
PT4	148.0	148.0	148.0	148.0	148.0	148.0	148.0	156.5
TT3D	763	763	763	763	763	763	763	774
TT4	1174	1174	1174	1174	1174	1174	1174	1191
PT9	26.8	26.8	26.8	26.8	26.8	26.8	26.8	27.9
PTD	30.5	31.2	31.4	31.7	32.0	32.2	32.7	35.0
TT9	1991	1991	1991	1991	1991	1991	1991	1990
TTU	3560	3000	2750	2500	2250	2000	1441	774
WAS/WAP	0.0451	0.0424	0.0412	0.0399	0.0386	0.0373	0.0340	0.0298
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2308	2203	2093	1976	1685	1244
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.81	8.67	8.16	7.66	7.15	6.64	5.45	3.55

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	0.40	PAM	3.3	PT2	3.7	WBL4	0.	
VA KTS	229	TAM	390	TT2	403	HPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	15967	14888	14381	13852	13297	12712	10788	8676
FGT	18301	17222	16715	16186	15631	15046	13122	11010
WAT	194	194	194	194	194	194	194	194
WFT	29716	23938	21678	19554	17558	15711	10863	6976
TSFC	1.861	1.608	1.507	1.412	1.320	1.236	1.007	0.906
BPR	1.32	1.32	1.32	1.32	1.32	1.32	1.32	32
WAT2	685	685	685	685	685	685	685	685
N1	5782	5782	5782	5782	5782	5782	5782	5812
N2	7344	7344	7344	7344	7344	7344	7344	7368
PT30	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.4
PT4	49.1	49.1	49.1	49.1	49.1	49.1	49.1	50.7
TT30	585	585	585	585	585	585	585	594
TT4	941	941	941	941	941	941	941	954
PT9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.2
PTD	9.5	9.7	9.8	9.9	10.0	10.1	10.3	11.0
TT9	1758	1758	1758	1758	1758	1758	1758	1758
TTD	3560	3000	2750	2500	2250	2000	1277	594
WAS/WAP	0.0526	0.0495	0.0480	0.0465	0.0450	0.0434	0.0384	0.0330
VENG	1855	1855	1855	1855	1855	1855	1855	1855
VOUCT	2617	2407	2337	2203	2092	1976	1989	1091
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	10.22	8.97	8.43	7.89	7.36	6.83	5.21	3.20

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	0.60	PAM	3.9	PT2	4.2	WBL4	0.	
VA KTS	344	TAM	390	TT2	418	HPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	17927	16616	16033	15349	14705	14007	11805	9361
FGT	21846	20535	19922	19287	18624	17925	15724	13262
WAT	217	217	217	217	217	217	217	217
WFT	33351	26910	24362	22027	19819	17757	12509	8170
TSFC	1.860	1.620	1.522	1.433	1.348	1.266	1.060	0.876
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
WAT2	684	684	684	684	684	684	684	684
N1	5877	5877	5877	5877	5877	5877	5877	5910
N2	7497	7497	7497	7497	7497	7497	7497	7522
PT30	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1
PT4	56.2	56.2	56.2	56.2	56.2	56.2	56.2	58.1
TT30	610	610	610	610	610	610	610	620
TT4	976	976	976	976	976	976	976	990
PT9	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.6
PTD	11.0	11.3	11.4	11.5	11.6	11.7	11.9	12.7
TT9	1832	1832	1832	1832	1832	1832	1832	1831
TTD	3560	3000	2750	2500	2250	2000	1300	620
WAS/WAP	0.0519	0.0488	0.0474	0.0460	0.0445	0.0429	0.0382	0.0331
VENG	1893	1893	1893	1893	1893	1893	1893	1892
VOUCT	2617	2407	2337	2203	2092	1976	1603	1114
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	9.81	8.65	8.12	7.61	7.10	6.59	5.09	3.16

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	0.90	PAM	3.3	PT2	5.6	WBL4	0.	
VA KTS	516	TAM	390	TT2	453	HPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	23632	21734	20853	19944	19000	18012	15149	11815
FGT	31129	29231	28350	27441	26497	25509	22647	19312
WAT	277	277	277	277	277	277	277	277
WFT	43053	34966	31694	28693	25905	23280	17046	11951
TSFC	1.522	1.408	1.352	1.439	1.383	1.292	1.125	0.978
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.30
WAT2	685	685	685	685	685	685	685	685
N1	6123	6123	6123	6123	6123	6123	6123	6151
N2	7831	7831	7831	7831	7831	7831	7831	7862
PT30	16.8	16.8	16.8	16.8	16.8	16.8	16.8	17.5
PT4	75.0	75.0	75.0	75.0	75.0	75.0	75.0	77.5
TT30	662	662	662	662	662	662	662	673
TT4	1057	1057	1057	1057	1057	1057	1057	1072
PT9	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.2
PTD	14.8	15.1	15.3	15.4	15.5	15.6	15.9	16.9
TT9	1996	1996	1996	1996	1996	1996	1996	1995
TTD	3560	3000	2750	2500	2250	2000	1349	673
WAS/WAP	0.0504	0.0476	0.0462	0.0449	0.0434	0.0420	0.0379	0.0332
VENG	1973	1973	1973	1973	1973	1973	1973	1973
VOUCT	2617	2407	2337	2203	2093	1976	1632	1160
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.25	8.16	7.68	7.21	6.74	6.26	4.95	3.14

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MN	1.00	PAM	4.4	PT2	6.7	WBL4	0.	
VA KTS	574	TAM	390	TT2	468	HPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	25961	23619	22635	21622	20571	19471	16129	12519
FGT	34571	32229	31245	30232	29181	28081	24739	21129
WAT	430	430	430	430	430	430	430	430
WFT	48192	37634	33658	29946	26466	23195	16458	12441
TSFC	1.515	1.404	1.357	1.310	1.267	1.228	1.111	0.979
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.29
WAT2	676	676	676	676	676	676	676	676
N1	6366	6366	6366	6366	6366	6366	6366	6387
N2	7966	7966	7966	7966	7966	7966	7966	7993
PT30	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.7
PT4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	93.5
TT30	678	678	678	678	678	678	678	685
TT4	1071	1071	1071	1071	1071	1071	1071	1084
PT9	16.3	16.6	16.8	16.9	16.9	16.9	16.9	17.4
PTD	16.3	16.6	16.8	16.9	16.9	17.0	17.2	17.4
TT9	1995	1995	1995	1995	1995	1995	1995	1995
TTD	3560	3000	2750	2500	2250	2000	1349	673
WAS/WAP	0.0494	0.0468	0.0455	0.0441	0.0427	0.0413	0.0372	0.0327
VENG	1973	1973	1973	1973	1973	1973	1973	1973
VOUCT	2617	2407	2337	2203	2093	1976	1641	1175
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.09	8.02	7.54	7.07	6.61	6.14	4.91	3.14

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ALT	36150	WASIZE	640	PT2/PT2P	0.991	WBL3	0.	
MN	1.20	PAM	3.3	PT2	7.9	WBL4	0.	
VA KTS	688	TAM	390	TT2	503	HPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	29416	27163	25935	24672	23366	21997	18328	13881
FGT	42649	39995	38768	37504	36199	34829	31160	26714
WAT	355	355	355	355	355	355	355	355
WFT	56319	43975	39401	35018	32384	28990	21470	14430
TSFC	1.822	1.619	1.535	1.456	1.385	1.318	1.171	1.040
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.30
WAT2	651	651	651	651	651	651	651	651
N1	5930	5930	5930	5930	5930	5930	5930	5972
N2	7910	7910	7910	7910	7910	7910	7910	7923
PT30	21.7	21.7	21.7	21.7	21.7	21.7	21.7	22.6
PT4	96.2	96.2	96.2	96.2	96.2	96.2	96.2	99.8
TT30	708	708	708	708	708	708	708	720
TT4	1108	1108	1108	1108	1108	1108	1108	1122
PT9	17.5	17.5	17.5	17.5	17.5	17.5	17.5	18.1
PTD	19.2	19.6	19.8	19.9	20.1	20.2	20.5	21.8
TT9	1994	1994	1994	1994	1994	1994	1994	1994
TTD	3560	3000	2750	2500	2250	2000	1391	720
WAS/WAP	0.0479	0.0452	0.0439	0.0426	0.0413	0.0399	0.0363	0.0318
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VOUCT	2617	2407	2307	2203	2093	1976	1657	1200
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.17	8.11	7.64	7.17	6.70	6.23	5.02	3.23

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ALT	36150	WASIZE	640	PT2/PT2P	0.971	WBL3	0.	
MN	1.50	PAM	3.3	PT2	11.7	WBL4	0.	
VA KTS	860	TAM	390	TT2	566	HPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	37852	34047	32289	30480	28615	26659	21809	15639
FGT	50766	54961	53203	51395	49530	47573	42723	36553
WAT	483	483	483	483	483	483	483	483
WFT	70500	56613	50977	45732	40912	36348	26831	17310
TSFC	1.863	1.663	1.579	1.500	1.430	1.363	1.230	1.107
BPR	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.42
WAT2	608	608	608	608	608	608	608	608
N1	5728	5728	5728	5728	5728	5728	5728	5779
N2	8054	8054	8054	8054	8054	8054	8054	8076
PT30	27.7	27.7	27.7	27.7	27.7	27.7	27.7	29.0
PT4	119.0	119.0	119.0	119.0	119.0	119.0	119.0	124.2
TT30	754	754	754	754	754	754	754	765
TT4	1166	1166	1166	1166	1166	1166	1166	1182
PT9	21.6	21.6	21.6	21.6	21.6	21.6	21.6	22.5
PTD	24.2	24.7	24.9	25.1	25.4	25.6	25.9	27.8
TT9	1993	1993	1993	1993	1993	1993	1993	1993
TTD	3560	3000	2750	2500	2250	2000	1432	766
WAS/WAP	0.0454	0.0428	0.0415	0.0403	0.0389	0.0376	0.0345	0.0300
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VOUCT	2617	2407	2338	2203	2093	1976	1681	1237
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	9.87	8.71	8.20	7.69	7.18	6.67	5.46	3.55

SEP 25, 1964

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	36150	WASIZE	640	PT2/PT2P	0.945	WBL3	0.
MO	1.60	PAM	3.3	PT2	17.8	WBL4	0.
VA KTS	1032	TAM	390	TT2	643	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LET	
FNT	48197	42700	40168	37573	36890	32081	25879	17151
FGT	80917	75419	72888	70293	67609	64801	58599	49870
WAT	604	604	604	604	604	604	604	604
WFT	91197	72315	64729	57619	51203	45023	33364	20263
TSFC	1.692	1.694	1.611	1.534	1.468	1.403	1.289	1.181
BPR	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.59
WAT2	555	555	555	555	555	555	555	555
N1	5516	5516	5516	5516	5516	5516	5516	5556
N2	8193	8193	8193	8193	8193	8193	8193	8225
PT3D	36.8	36.8	36.8	36.8	36.8	36.8	36.8	38.6
PT4	145.8	145.8	145.8	145.8	145.8	145.8	145.8	151.7
TT3D	817	817	817	817	817	817	817	827
TT4	1229	1229	1229	1229	1229	1229	1229	1244
PT9	26.4	26.4	26.4	26.4	26.4	26.4	26.4	27.3
PTD	31.9	32.6	32.6	33.2	33.5	33.7	34.2	36.5
TT9	1993	1993	1993	1993	1993	1993	1993	1992
TTD	3560	3000	2750	2500	2250	2000	1490	827
WAS/WAP	0.0429	0.0403	0.0391	0.0379	0.0366	0.0352	0.0323	0.0282
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2408	2308	2203	2093	1976	1713	1285
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.14	8.95	8.43	7.90	7.38	6.85	5.74	3.83

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ALT	45000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.90	PAM	2.1	PT2	4.9	WBL4	0.
VA KTS	287	TAM	390	TT2	409	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LET	
FNT	10830	10074	9720	9350	8961	8552	7211	5729
FGT	12841	12085	11731	11361	10972	10563	9222	7741
WAT	136	136	136	136	136	136	136	136
WFT	20636	16616	15044	13566	12175	10890	7550	4816
TSFC	1.905	1.649	1.548	1.451	1.359	1.273	1.044	0.840
BPR	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
WAT2	685	685	685	685	685	685	685	685
N1	5848	5848	5848	5848	5848	5848	5848	5875
N2	7350	7350	7350	7350	7350	7350	7350	7368
PT3D	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.7
PT4	33.7	33.7	33.7	33.7	33.7	33.7	33.7	34.8
TT3D	589	589	589	589	589	589	589	598
TT4	955	955	955	955	955	955	955	968
PT9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.3
PTD	6.3	6.5	6.6	6.6	6.7	6.8	6.9	7.4
TT9	1794	1794	1794	1794	1794	1794	1794	1794
TTD	3560	3000	2750	2500	2250	2000	1280	598
WAS/WAP	0.0526	0.0493	0.0478	0.0464	0.0448	0.0432	0.0381	0.0329
VENG	1874	1874	1874	1874	1874	1874	1874	1874
VDUCT	2617	2407	2307	2203	2092	1976	1591	1296
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.67	9.36	8.79	8.23	7.67	7.11	5.42	3.32

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ALT	45000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.80	PAM	2.1	PT2	3.3	WBL4	0.
VA KTS	459	TAM	390	TT2	440	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LET	
FNT	13819	12742	12241	11725	11182	10615	8895	6927
FGT	17812	16735	16234	15716	15175	14608	12887	10920
WAT	166	166	166	166	166	166	166	166
WFT	25875	20886	18920	17111	15415	13824	9908	6563
TSFC	1.869	1.635	1.546	1.460	1.379	1.302	1.114	0.947
BPR	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
WAT2	685	685	685	685	685	685	685	685
N1	6061	6061	6061	6061	6061	6061	6061	6091
N2	7644	7644	7644	7644	7644	7644	7644	7664
PT3D	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0
PT4	43.6	43.6	43.6	43.6	43.6	43.6	43.6	45.0
TT3D	635	635	635	635	635	635	635	645
TT4	1025	1025	1025	1025	1025	1025	1025	1039
PT9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.2
PTD	8.3	8.5	8.6	8.7	8.7	8.8	9.0	9.6
TT9	1938	1938	1938	1938	1938	1938	1938	1938
TTD	3560	3000	2750	2500	2250	2000	1323	645
WAS/WAP	0.0511	0.0481	0.0467	0.0453	0.0439	0.0424	0.0380	0.0330
VENG	1965	1965	1965	1965	1965	1965	1965	1965
VDUCT	2617	2407	2307	2203	2092	1976	1617	1136
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.31	8.81	8.28	7.76	7.25	6.72	5.25	3.29

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ALT	45000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	1.20	PAM	2.1	PT2	5.2	WBL4	0.
VA KTS	688	TAM	390	TT2	502	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LET	
FNT	19409	17680	16860	16055	15203	14309	11888	8964
FGT	27809	26080	25280	24456	23603	22709	20288	17364
WAT	233	233	233	233	233	233	233	233
WFT	35716	28886	26132	23572	21226	19001	14002	9348
TSFC	1.840	1.636	1.548	1.468	1.396	1.328	1.178	1.043
BPR	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.33
WAT2	651	651	651	651	651	651	651	651
N1	5932	5932	5932	5932	5932	5932	5932	5969
N2	7873	7873	7873	7873	7873	7873	7873	7885
PT3D	13.8	13.8	13.8	13.8	13.8	13.8	13.8	14.5
PT4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	64.6
TT3D	702	702	702	702	702	702	702	716
TT4	1105	1105	1105	1105	1105	1105	1105	1119
PT9	11.4	11.4	11.4	11.4	11.5	11.4	11.4	11.8
PTD	12.2	12.4	12.5	12.6	12.7	12.8	13.0	13.9
TT9	1998	1998	1998	1998	1998	1998	1998	1998
TTD	3560	3000	2750	2500	2250	2000	1386	716
WAS/WAP	0.0680	0.0652	0.0640	0.0627	0.0613	0.0599	0.0562	0.0517
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2617	2407	2307	2203	2093	1976	1654	1195
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.56	8.44	7.95	7.46	6.96	6.47	5.20	3.33

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ALT	45000	WASIZE	640	PT2/PT2P	0.971	WBL3	0.
MO	1.50	PAM	2.1	PT2	7.7	WBL4	0.
VA KTS	860	TAM	390	TT2	566	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LET	
FNT	24666	22180	21031	19848	18628	17347	14138	10065
FGT	38357	35871	34722	33539	32319	31038	27829	23756
WAT	303	303	303	303	303	303	303	303
WFT	46391	37212	33689	30013	26845	23829	17492	11192
TSFC	1.881	1.678	1.592	1.512	1.441	1.376	1.237	1.112
BPR	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.46
WAT2	608	608	608	608	608	608	608	608
N1	5716	5716	5716	5716	5716	5716	5716	5762
N2	8020	8020	8020	8020	8020	8020	8020	8043
PT3D	17.7	17.7	17.7	17.7	17.7	17.7	17.7	18.5
PT4	76.9	76.9	76.9	76.9	76.9	76.9	76.9	80.2
TT3D	748	748	748	748	748	748	748	760
TT4	1162	1162	1162	1162	1162	1162	1162	1178
PT9	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.5
PTD	15.3	15.7	15.8	16.0	16.1	16.2	16.5	17.7
TT9	1997	1997	1997	1997	1997	1997	1997	1996
TTD	3560	3000	2750	2500	2250	2000	1427	760
WAS/WAP	0.0459	0.0428	0.0416	0.0403	0.0390	0.0376	0.0342	0.0299
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2617	2407	2308	2203	2093	1976	1678	1232
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.29	9.07	8.54	8.00	7.46	6.93	5.85	3.66

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	45000	WASIZE	640	PT2/PT2P	0.945	WBL3	0.
MO	1.80	FAM	2.1	PT2	11.7	WBL4	0.
VA KTS	1032	TAM	390	TT2	643	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	31443	27846	26189	24490	22733	20892	16784	11029
FGT	52856	49260	47603	45904	44146	42305	38198	32442
WAT	395	395	395	395	395	395	395	395
WFT	59089	47533	42528	37836	33604	29528	21771	13111
TSFC	1.908	1.707	1.624	1.545	1.478	1.413	1.287	1.189
BPR	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.63
WAT2	555	555	555	555	555	555	555	555
N1	5498	5498	5498	5498	5498	5498	5498	5536
N2	8158	8158	8158	8158	8158	8158	8158	8189
PT3D	23.6	23.6	23.6	23.6	23.6	23.6	23.6	24.6
PT4	94.2	94.2	94.2	94.2	94.2	94.2	94.2	97.9
TT3D	812	812	812	812	812	812	812	822
TT4	1225	1225	1225	1225	1225	1225	1225	1241
PT9	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.7
PTD	20.3	20.7	20.9	21.2	21.4	21.5	21.8	23.4
TT9	1997	1997	1997	1997	1997	1997	1997	1996
TTD	3560	3000	2750	2500	2250	2000	1485	822
WAS/WAP	0.0430	0.0404	0.0392	0.0379	0.0366	0.0353	0.0323	0.0281
WENG	1976	1971	1976	1976	1976	1976	1976	1976
WDUCT	2617	2408	2308	2203	2093	1976	1710	1261
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.53	9.28	8.73	8.18	7.63	7.08	5.92	3.94

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ALT	45000	WASIZE	640	PT2/PT2P	0.925	WBL3	0.
MO	2.00	FAM	2.1	PT2	15.6	WBL4	0.
VA KTS	1147	TAM	390	TT2	762	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	36749	32225	30159	28014	25813	23512	18931	11853
FGT	64957	60433	58358	56221	54020	51719	47138	40061
WAT	669	669	669	669	669	669	669	669
WFT	69877	55031	49076	43472	38409	33567	25163	16756
TSFC	1.901	1.708	1.628	1.552	1.488	1.427	1.329	1.245
BPR	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68
WAT2	915	915	915	915	915	915	915	915
N1	5454	5454	5454	5454	5454	5454	5454	5489
N2	8196	8196	8196	8196	8196	8196	8196	8231
PT3D	29.6	29.6	29.6	29.6	29.6	29.6	29.6	30.5
PT4	110.2	110.2	110.2	110.2	110.2	110.2	110.2	114.1
TT3D	869	869	869	869	869	869	869	877
TT4	1279	1279	1279	1279	1279	1279	1279	1296
PT9	19.8	19.8	19.8	19.8	19.8	19.8	19.8	20.5
PTD	25.8	26.3	26.5	26.8	27.0	27.2	27.5	29.0
TT9	1995	1995	1995	1995	1995	1995	1995	1995
TTD	3560	3000	2750	2500	2250	2000	1536	877
WAS/WAP	0.0612	0.0387	0.0375	0.0363	0.0351	0.0337	0.0312	0.0272
WENG	1973	1973	1973	1973	1973	1973	1973	1973
WDUCT	2617	2408	2308	2203	2093	1976	1739	1322
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.91	8.75	8.24	7.73	7.22	6.71	5.73	3.94

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ALT	55000	WASIZE	640	PT2/PT2P	0.997	WBL3	0.
MO	1.10	FAM	1.3	PT2	2.8	WBL4	0.
VA KTS	631	TAM	390	TT2	484	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	11009	10061	9622	9189	8698	8206	6817	5173
FGT	15390	14443	14003	13550	13080	12588	11199	9556
WAT	132	132	132	132	132	132	132	132
WFT	20566	16630	15051	13586	12235	10959	7999	5322
TSFC	1.868	1.653	1.564	1.482	1.407	1.335	1.173	1.029
BPR	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
WAT2	663	663	663	663	663	663	663	663
N1	6005	6005	6005	6005	6005	6005	6005	6033
N2	7774	7774	7774	7774	7774	7774	7774	7787
PT3D	7.6	7.6	7.6	7.6	7.6	7.6	7.6	8.0
PT4	35.1	35.1	35.1	35.1	35.1	35.1	35.1	36.3
TT3D	680	680	680	680	680	680	680	691
TT4	1083	1083	1083	1083	1083	1083	1083	1097
PT9	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.6
PTD	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.6
TT9	2004	2004	2004	2004	2004	2004	2004	2003
TTD	3560	3000	2750	2500	2250	2000	1365	691
WAS/WAP	0.0489	0.0461	0.0448	0.0435	0.0421	0.0407	0.0367	0.0321
WENG	1977	1977	1977	1977	1977	1977	1977	1977
WDUCT	2617	2407	2307	2203	2093	1976	1661	1176
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.12	8.91	8.39	7.86	7.34	6.80	5.61	3.43

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ALT	55000	WASIZE	640	PT2/PT2P	0.991	WBL3	0.
MO	1.20	FAM	1.3	PT2	3.2	WBL4	0.
VA KTS	668	TAM	390	TT2	502	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	11910	10848	10356	9849	9324	8773	7259	5462
FGT	17116	16055	15563	15056	14531	13979	12466	10648
WAT	144	144	144	144	144	144	144	144
WFT	22289	18004	16278	14676	13204	11810	8644	5720
TSFC	1.871	1.660	1.572	1.490	1.416	1.346	1.191	1.051
BPR	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
WAT2	651	651	651	651	651	651	651	651
N1	5940	5940	5940	5940	5940	5940	5940	5949
N2	7826	7826	7826	7826	7826	7826	7826	7862
PT3D	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.6
PT4	38.1	38.1	38.1	38.1	38.1	38.1	38.1	39.6
TT3D	695	695	695	695	695	695	695	706
TT4	1103	1103	1103	1103	1103	1103	1103	1117
PT9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.2
PTD	7.1	7.3	7.4	7.5	7.5	7.6	7.7	8.3
TT9	2003	2003	2003	2003	2003	2003	2003	2003
TTD	3560	3000	2750	2500	2250	2000	1379	706
WAS/WAP	0.0481	0.0453	0.0440	0.0427	0.0413	0.0399	0.0362	0.0316
WENG	1977	1977	1977	1977	1977	1977	1977	1977
WDUCT	2617	2407	2307	2203	2093	1976	1650	1188
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.19	8.98	8.45	7.92	7.39	6.85	5.68	3.48

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ALT	55000	WASIZE	640	PT2/PT2P	0.971	WBL3	0.
MO	1.50	FAM	1.3	PT2	4.7	WBL4	0.
VA KTS	860	TAM	390	TT2	566	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	15160	13629	12920	12190	11437	10645	8636	6094
FGT	23646	22115	21436	20676	19923	19131	17122	14580
WAT	188	188	188	188	188	188	188	188
WFT	28928	23174	20842	18665	16680	14792	10789	6827
TSFC	1.958	1.700	1.613	1.531	1.458	1.390	1.249	1.120
BPR	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.50
WAT2	608	608	608	608	608	608	608	608
N1	5714	5711	5711	5711	5711	5711	5711	5750
N2	7981	7981	7981	7981	7981	7981	7981	8003
PT3D	10.6	10.6	10.6	10.6	10.6	10.6	10.6	11.1
PT4	46.9	46.9	46.9	46.9	46.9	46.9	46.9	48.8
TT3D	742	742	742	742	742	742	742	753
TT4	1159	1159	1159	1159	1159	1159	1159	1175
PT9	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.9
PTD	9.0	9.3	9.4	9.5	9.6	9.6	9.8	10.6
TT9	2002	2002	2002	2002	2002	2002	2002	2001
TTD	3560	3000	2750	2500	2250	2000	1421	753
WAS/WAP	0.0456	0.0429	0.0416	0.0403	0.0390	0.0376	0.0342	0.0298
WENG	1976	1976	1976	1976	1976	1976	1976	1976
WDUCT	2617	2407	2308	2203	2093	1976	1674	1227
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.91	9.60	9.03	8.46	7.88	7.30	5.94	3.83

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ALT	55000	WASIZE	640	PT2/PT2P	0.965	WBL3	0.
MO	1.80	FAM	1.3	PT2	7.2	WBL4	0.
VA KTS	1032	TAM	390	TT2	643	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	19356	17134	16109	15058	13970	12829	10252	6660
FGT	32628	30406	29381	28331	27242	26101	23525	19933
WAT	245	245	245	245	245	245	245	245
WFT	37611	29612	26477	23537	20888	18339	13431	7999
TSFC	1.933	1.720	1.644	1.563	1.495	1.429	1.310	1.201
BPR	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68
WAT2	555	555	555	555	555	555	555	555
N1	5484	5484	5484	5484	5484	5484	5484	5520
N2	8108	8108	8108	8108	8108	8108	8108	8141
PT3D	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.8
PT4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	59.6
TT3D	807	807	807	807	807	807	807	816
TT4	1222	1222	1222	1222	1222	1222	1222	1237
PT9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.8
PTD	12.0	12.3	12.4	12.6	12.7	12.8	13.0	14.0
TT9	2002	2002	2002	2002	2002	2002	2002	2001
TTD	3560	3000	2750	2500	2250	2000	1488	816
WAS/WAP	0.0431	0.0405	0.0392	0.0380	0.0366	0.0353	0.0323	0.0280
WENG	1976	1976	1976	1976	1976	1976	1976	1976
WDUCT	2617	2408	2308	2203	2093	1976	1707	1276
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.13	9.79	9.21	8.61	8.03	7.45	6.20	4.11

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	55000	WASIZE	640	PT2/PT2P	0.925	WBL3	0.	
MO	2.00	PAM	3.3	PT2	5.6	WBL4	0.	
VA KTS	1147	TAM	390	TT2	702	HPEXT	0.	

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	22672	19870	18584	17299	15893	14464	11580	7172
FGT	40156	37353	36067	34742	33376	31948	29064	24655
WAT	291	291	291	291	291	291	291	291
WFT	43577	34281	30556	27043	23874	20429	15520	9012
TSFC	1.922	1.725	1.644	1.587	1.502	1.440	1.360	1.257
BPR	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.73
WAT2	519	519	519	519	519	519	519	519
N1	5433	5433	5433	5437	5433	5433	5432	5469
N2	8141	8141	8141	8141	8141	8141	8141	8179
PT3D	17.8	17.8	17.8	17.8	17.8	17.8	17.8	18.4
PT4	67.1	67.1	67.1	67.1	67.1	67.1	67.1	69.5
TT3D	863	863	863	863	863	863	863	871
TT4	1275	1275	1275	1275	1275	1275	1275	1290
PT9	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.5
PTD	15.3	15.6	15.8	16.0	16.1	16.2	16.4	17.4
TT9	2000	2000	2000	2000	2000	2000	2000	2000
TTD	3560	3000	2750	2500	2250	2000	1531	871
WAS/WAP	0.0413	0.0388	0.0376	0.0363	0.0351	0.0338	0.0312	0.0271
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2617	2408	2308	2203	2093	1976	1736	1318
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.44	9.21	8.66	8.12	7.58	7.04	5.99	4.08

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ALT	55000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.	
MO	2.27	PAM	3.3	PT2	12.9	WBL4	0.	
VA KTS	1262	TAM	390	TT2	767	HPEXT	0.	

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	25784	22958	21214	19576	17447	16127	13059	7702
FGT	48484	45618	43874	42186	40497	38737	35665	30462
WAT	342	342	342	342	342	342	342	342
WFT	50742	39155	34738	30669	26961	23371	17992	10196
TSFC	1.976	1.717	1.640	1.567	1.506	1.449	1.370	1.163
BPR	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.73
WAT2	674	674	674	674	674	674	674	674
N1	5383	5383	5383	5383	5383	5383	5384	5427
N2	8155	8155	8155	8155	8155	8155	8155	8209
PT3D	22.9	22.9	22.9	22.9	22.9	22.9	22.9	23.6
PT4	74.9	74.9	74.9	74.9	74.9	74.9	74.9	81.9
TT3D	924	924	924	924	924	924	924	937
TT4	1333	1333	1333	1333	1333	1333	1333	1349
PT9	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.7
PTD	23.2	23.6	23.7	20.9	21.0	21.2	21.6	22.5
TT9	1993	1999	1999	1999	1999	1999	1999	1999
TTD	3567	3007	2750	2500	2250	2000	1590	937
WAS/WAP	0.0395	0.0371	0.0358	0.0345	0.0336	0.0321	0.0297	0.0263
VENG	1975	1975	1975	1975	1975	1975	1975	1975
VDUCT	2619	2409	2308	2203	2093	1977	1764	1356
AJCUE	5.23	5.23	5.20	5.23	5.20	5.23	5.20	5.21
AJCDD	9.39	8.24	7.76	7.29	6.82	6.34	5.51	3.67

OCT 2, 1964

ALT	55000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.	
MO	2.50	PAM	3.3	PT2	19.8	WBL4	0.	
VA KTS	1414	TAM	390	TT2	875	HPEXT	0.	

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	31665	27965	26928	22762	20538	18225	15234	8661
FGT	63427	59765	57889	54922	52699	50386	47394	40821
WAT	429	429	428	424	428	424	428	428
WFT	59866	46382	40365	33867	31249	26839	21656	12122
TSFC	1.991	1.715	1.643	1.576	1.522	1.473	1.424	1.409
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.73
WAT2	612	612	612	612	612	612	612	612
N1	5311	5311	5311	5311	5311	5311	5311	5379
N2	8154	8154	8154	8154	8154	8154	8154	8217
PT3D	33.4	33.4	33.4	33.4	33.4	33.4	33.4	34.3
PT4	130.3	130.3	130.3	130.3	130.3	130.3	130.3	134.4
TT3D	1041	1041	1041	1041	1041	1041	1041	1059
TT4	1429	1429	1429	1429	1429	1429	1429	1445
PT9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	18.6
PTD	32.6	33.9	31.0	31.1	31.3	31.4	31.6	32.9
TT9	1994	1998	1998	1998	1998	1998	1998	1997
TTD	3565	3009	2750	2500	2250	2000	1693	1059
WAS/WAP	0.0372	0.0347	0.0334	0.0325	0.0314	0.0302	0.0287	0.0253
VENG	1975	1975	1975	1975	1975	1975	1975	1974
VDUCT	2619	2408	2308	2204	2093	1977	1823	1445
AJCOE	5.23	5.20	5.20	5.23	5.20	5.20	5.20	5.23
AJCDD	7.67	6.83	6.45	6.08	5.70	5.31	4.81	3.68

OCT 2, 1964

ALT	55000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.	
MO	2.70	PAM	3.3	PT2	28.3	WBL4	0.	
VA KTS	1548	TAM	390	TT2	956	HPEXT	0.	

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	38019	33379	27406	25188	22495	19697	16931	9185
FGT	76887	71253	68682	66162	63369	60571	57826	50693
WAT	503	503	503	503	503	503	503	503
WFT	68305	53273	49953	46552	34652	29491	24936	13525
TSFC	1.997	1.721	1.644	1.590	1.540	1.497	1.465	1.472
BPR	1.77	1.72	1.72	1.72	1.72	1.72	1.72	1.77
WAT2	582	582	582	582	582	582	582	582
N1	5274	5274	5274	5274	5274	5274	5274	5339
N2	8214	8214	8214	8214	8214	8214	8214	8256
PT3D	42.5	42.5	42.5	42.5	42.5	42.5	42.5	43.5
PT4	118.5	118.5	118.5	118.5	118.5	118.5	118.5	123.7
TT3D	1121	1121	1121	1121	1121	1121	1121	1139
TT4	1501	1501	1501	1501	1501	1501	1501	1517
PT9	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.9
PTD	39.9	39.7	39.8	40.2	40.1	40.3	40.4	41.9
TT9	1996	1996	1996	1996	1996	1996	1996	1995
TTD	3565	3009	2750	2500	2250	2000	1765	1139
WAS/WAP	0.0356	0.0332	0.0322	0.0312	0.0301	0.0293	0.0279	0.0247
VENG	1974	1974	1976	1974	1974	1974	1974	1974
VDUCT	2618	2409	2308	2204	2094	1977	1861	1459
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.23
AJCDD	6.99	6.23	5.90	5.56	5.22	4.87	4.52	3.35

OCT 2, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.962	WBL3	0.	
MO	1.60	PAM	0.8	PT2	3.6	WBL4	0.	
VA KTS	918	TAM	390	TT2	598	HPEXT	0.	

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	10082	9005	8509	7958	7414	6715	5491	3742
FGT	16218	15142	14646	14134	13607	13052	11627	9876
WAT	127	127	127	127	127	127	127	127
WFT	20327	16090	14613	12836	11407	10050	7146	4359
TSFC	2.016	1.787	1.694	1.605	1.527	1.453	1.301	1.185
BPR	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
WAT2	591	591	591	591	591	591	591	591
N1	5610	5610	5610	5610	5610	5610	5610	5645
N2	7976	7976	7976	7976	7976	7976	7976	8003
PT3D	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.2
PT4	30.2	30.2	30.2	30.2	30.2	30.2	30.2	31.4
TT3D	753	753	753	753	753	753	753	762
TT4	1174	1174	1174	1174	1174	1174	1174	1189
PT9	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.7
PTD	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.8
TT9	2007	2007	2007	2007	2007	2007	2007	2007
TTD	3560	3000	2750	2500	2250	2000	1616	762
WAS/WAP	0.0449	0.0422	0.0409	0.0396	0.0383	0.0369	0.0343	0.0289
VENG	1979	1979	1979	1979	1978	1979	1979	1979
VDUCT	2617	2407	2307	2253	2093	1976	1671	1234
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	12.22	10.71	10.04	9.39	8.72	8.07	6.92	4.23

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ALT	65000	WASIZE	640	PT2/PT2P	0.954	WBL3	0.	
MO	1.70	PAM	0.8	PT2	3.9	WBL4	0.	
VA KTS	975	TAM	390	TT2	616	HPEXT	0.	

MAXTHR	MAX D/H					MIN D/H	NOT LIT
FNT	10907	9702	9144	8571	7952	7350	5867	3867
FGT	18028	16823	16265	15692	15097	14472	12969	10969
WAT	139	139	139	139	139	139	139	139
WFT	21550	17121	15326	13436	12101	10641	7688	4592
TSFC	1.976	1.765	1.679	1.591	1.517	1.448	1.315	1.194
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.70
WAT2	573	573	573	573	573	573	573	573
N1	5519	5519	5519	5519	5519	5519	5519	5555
N2	8012	8012	8012	8012	8012	8012	8012	8045
PT3D	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.9
PT4	32.3	32.3	32.3	32.3	32.3	32.3	32.3	33.5
TT3D	775	775	775	775	775	775	775	784
TT4	1195	1195	1195	1195	1195	1195	1195	1210
PT9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.1
PTD	6.2	6.4	6.4	6.5	6.6	6.7	6.8	7.4
TT9	2008	2008	2006	2008	2008	2008	2008	2007
TTD	3560	3000	2750	2500	2250	2000	1691	784
WAS/WAP	0.0461	0.0434	0.0421	0.0398	0.0375	0.0361	0.0328	0.0266
VENG	1979	1979	1979	1979	1979	1979	1979	1979
VDUCT	2617	2408	2308	2203	2093	1976	1691	1251
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	12.34	10.81	10.14	9.47	8.81	8.15	6.64	4.33

SEP 25, 1964

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ALT	65000	MASIZE	640	PT2/PT2P	0.945	WBL3	0.
MO	1.80	PAM	0.8	PT2	4.5	WBL4	0.
VA KTS	1032	TAM	390	TT2	643	WPERT	0.

MAXTHR	MAX D/H						MIN D/H	NOT LIT
FNT	11868	10500	9869	9420	8548	7842	6221	5977
FGT	23096	18738	16099	17470	14778	14872	14451	12207
WAT	152	152	152	152	152	152	152	152
WFT	23596	18491	16520	14668	13003	11397	8274	6432
TSPC	1.971	1.781	1.674	1.551	1.521	1.453	1.330	1.220
SPR	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.75
WAT2	555	555	555	555	555	555	555	555
N1	5464	5464	5464	5464	5464	5464	5464	5490
N2	8040	8040	8040	8040	8040	8040	8040	8076
PT3D	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.8
PT4	34.7	34.7	34.7	34.7	34.7	34.7	34.7	36.8
TT3D	799	799	799	799	799	799	799	800
TT4	1210	1210	1210	1210	1210	1210	1210	1253
PT9	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.5
PTD	7.0	7.1	7.1	7.1	7.1	7.1	7.1	8.8
TT9	2007	2007	2007	2007	2007	2007	2007	2007
TTD	3560	3000	2750	2500	2250	2000	1675	800
WAS/WAP	0.0432	0.0401	0.0391	0.0380	0.0367	0.0353	0.0322	0.0278
WENG	1979	1979	1979	1979	1979	1979	1979	1979
WDUCT	2617	2408	2308	2203	2093	1976	1703	1278
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	9.21
AJCDD	12.79	10.68	9.93	9.29	8.65	8.81	6.63	5.37

SEP 25, 1964

ALT	65000	MASIZE	640	PT2/PT2P	0.925	WBL3	0.
MO	2.00	PAM	0.8	PT2	6.0	WBL4	0.
VA KTS	1147	TAM	390	TT2	702	WPERT	0.

MAXTHR	MAX D/H						MIN D/H	NOT LIT
FNT	13971	12235	11430	10616	9768	8840	7864	6305
FGT	24813	23077	22279	21490	20610	19722	17965	15167
WAT	190	190	190	190	190	190	190	190
WFT	27216	21382	19040	16840	14852	12941	9572	5440
TSPC	1.948	1.748	1.665	1.591	1.520	1.457	1.355	1.268
SPR	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.79
WAT2	515	515	515	515	515	515	515	519
N1	5414	5414	5414	5414	5414	5414	5414	5446
N2	8074	8074	8074	8074	8074	8074	8074	8119
PT3D	10.7	10.7	10.7	10.7	10.7	10.7	10.7	11.1
PT4	40.7	40.7	40.7	40.7	40.7	40.7	40.7	42.2
TT3D	857	857	857	857	857	857	857	864
TT4	1271	1271	1271	1271	1271	1271	1271	1304
PT9	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.4
PTD	9.0	9.1	9.4	9.8	4.6	9.6	9.8	10.4
TT9	2005	2005	2005	2019	2005	2005	2009	2009
TTD	3560	3000	2750	2500	2250	2000	1529	864
WAS/WAP	0.0414	0.0388	0.0376	0.0364	0.0351	0.0338	0.0311	0.0269
WENG	1978	1978	978	1978	1978	1978	1978	1978
WDUCT	2617	2408	2308	2203	2093	1976	1755	1313
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	9.21
AJCDD	11.09	9.76	9.16	8.58	8.01	7.43	6.29	4.29

SEP 25, 1964

ALT	65000	MASIZE	640	PT2/PT2P	0.905	WBL3	0.
MO	2.20	PAM	0.8	PT2	8.0	WBL4	0.
VA KTS	1262	TAM	390	TT2	767	WPERT	0.

MAXTHR	MAX D/H						MIN D/H	NOT LIT
FNT	16253	14089	13049	12076	11025	9988	8866	6688
FGT	30276	28139	27118	26097	25046	23949	22005	18708
WAT	212	212	212	212	212	212	212	212
WFT	31256	24425	21685	19100	16762	14521	11038	6206
TSPC	1.929	1.736	1.650	1.582	1.520	1.463	1.362	1.204
SPR	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.79
WAT2	494	494	494	494	494	494	494	494
N1	9359	9359	9359	9359	9359	9359	9359	9390
N2	8091	8091	8091	8091	8091	8091	8091	8141
PT3D	13.8	13.8	13.8	13.8	13.8	13.8	13.8	14.3
PT4	47.9	47.9	47.9	47.9	47.9	47.9	47.9	49.7
TT3D	922	922	922	922	922	922	922	930
TT4	1329	1329	1329	1329	1329	1329	1329	1364
PT9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.9
PTD	12.1	12.9	12.9	12.9	12.9	12.9	12.9	13.4
TT9	2005	2005	2005	2005	2005	2005	2005	2004
TTD	3560	3000	2750	2500	2250	2000	1505	930
WAS/WAP	0.0396	0.0372	0.0360	0.0348	0.0336	0.0323	0.0301	0.0262
WENG	1978	1978	1978	1978	1978	1979	1979	1978
WDUCT	2618	2408	2308	2203	2093	1977	1765	1362
AJCOE	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21
AJCDD	9.79	8.65	8.14	7.64	7.15	6.64	5.77	4.03

OCT 2, 1964

ALT	65000	MASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAM	0.8	PT2	12.3	WBL4	0.
VA KTS	1454	TAM	390	TT2	875	WPERT	0.

MAXTHR	MAX D/H						MIN D/H	NOT LIT
FNT	17645	16708	15939	14889	13948	12953	9548	9244
FGT	39586	36703	35382	34029	32640	31196	29292	25166
WAT	295	295	295	295	295	295	295	295
WFT	37384	28930	25535	22339	19444	16679	13303	7389
TSPC	1.909	1.726	1.650	1.586	1.531	1.482	1.402	1.245
SPR	1.78	1.78	1.78	1.78	1.76	1.76	1.78	1.75
WAT2	412	412	412	412	412	412	412	412
N1	9281	9281	9281	9281	9281	9281	9281	9332
N2	8099	8099	8099	8099	8099	8099	8099	8161
PT3D	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.9
PT4	61.3	61.0	61.0	61.0	61.0	61.0	61.0	63.4
TT3D	1099	1099	1099	1099	1099	1099	1099	1044
TT4	1425	1425	1425	1425	1425	1425	1425	1441
PT9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.3
PTD	18.4	18.8	18.9	19.8	18.9	19.0	19.1	19.9
TT9	2003	2003	2003	2003	2003	2003	2003	2002
TTD	3560	3000	2750	2500	2250	2000	1667	1044
WAS/WAP	0.0370	0.0348	0.0337	0.0326	0.0314	0.0302	0.0287	0.0252
WENG	1977	1977	1977	1977	1977	1977	1977	1977
WDUCT	2618	2408	2308	2204	2093	1977	1920	1441
AJCOE	9.89	9.20	9.20	9.20	9.20	9.20	9.20	9.20
AJCDD	7.97	7.08	6.69	6.30	5.91	5.50	4.98	3.60

OCT 2, 1964

ALT	65000	MASIZE	640	PT2/PT2P	0.845	WBL3	0.
MO	2.70	PAM	0.8	PT2	16.3	WBL4	0.
VA KTS	1548	TAM	390	TT2	954	WPERT	0.

MAXTHR	MAX D/H						MIN D/H	NOT LIT
FNT	18966	18049	17042	15987	14989	13938	10686	9568
FGT	47712	44194	42588	40953	39271	37524	35771	30898
WAT	512	512	512	512	512	512	512	512
WFT	42642	32599	28578	24950	21562	18330	15353	8258
TSPC	1.907	1.730	1.657	1.599	1.549	1.505	1.473	1.407
SPR	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.75
WAT2	502	502	502	502	502	502	502	502
N1	9290	9290	9290	9290	9290	9290	9290	9393
N2	8173	8173	8173	8173	8173	8173	8173	8213
PT3D	29.9	29.9	29.9	29.9	29.9	29.9	29.9	30.5
PT4	72.2	72.2	72.2	72.2	72.2	72.2	72.2	74.9
TT3D	1116	1116	1116	1116	1116	1116	1116	1104
TT4	1496	1496	1496	1496	1496	1496	1496	1512
PT9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.3
PTD	20.0	20.5	20.8	20.9	20.9	20.9	20.9	20.9
TT9	2001	2001	2001	2001	2001	2001	2001	2000
TTD	3560	3000	2750	2500	2250	2000	1750	1104
WAS/WAP	0.0355	0.0333	0.0322	0.0312	0.0301	0.0290	0.0278	0.0246
WENG	1977	1977	1977	1977	1977	1977	1977	1976
WDUCT	2618	2408	2308	2204	2094	1977	1858	1494

ALT	75000	MASIZE	640	PT2/PT2P	0.925	WBL3	0.
MO	2.00	PAM	0.8	PT2	6.7	WBL4	0.
VA KTS	1154	TAM	390	TT2	781	WPERT	0.

MAXTHR	MAX D/H						MIN D/H	NOT LIT
FNT	8587	7481	6905	6297	5869	5317	4093	2565
FGT	15252	14146	13650	13142	12614	12067	10948	9216
WAT	111	111	111	111	111	111	111	111
WFT	10548	10451	10418	10358	9570	8289	5953	3246
TSPC	2.138	1.899	1.798	1.713	1.632	1.559	1.430	1.317
SPR	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.91
WAT2	515	515	515	515	515	515	515	515
N1	5408	5408	5408	5408	5408	5408	5408	5436
N2	7975	7975	7975	7975	7975	7975	7975	8014
PT3D	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.6
PT4	24.1	24.1	24.1	24.1	24.1	24.1	24.1	25.8
TT3D	884	884	884	884	884	884	884	862
TT4	1276	1276	1276	1276	1276	1276	1276	1298
PT9	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.8
PTD	9.0	9.2	9.3	9.3	9.4	9.4	9.5	9.8
TT9	2012	2012	2012	2012	2012	2012	2012	2011
TTD	3560	3000	2750	2500	2250	2000	1688	862
WAS/WAP	0.0413	0.0387	0.0375	0.0362	0.0349	0.0336	0.0306	0.0266
WENG	1981	1981	1981	1981	1981	1981	1981	1981
WDUCT	2617	2407	2307	2203	2091	1976	1712	1311
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.10	10.10	9.59	9.08	8.58	8.06	6.96	4.73

SEP 30, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

ALT	75000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.	
MO	2.20	PAP	0.5	PT2	5.0	WBL4	0.	
VA KTS	1270	TAM	395	TT2	776	HPEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	9499	8595	7939	7305	6650	5967	4749	2693
FGT	18621	17278	16662	16028	15373	14693	13472	11416
WAT	131	131	131	131	131	131	131	131
WFT	19411	15193	13461	11827	10349	8933	6725	3671
TSFC	1.971	1.776	1.696	1.619	1.556	1.497	1.416	1.363
BPR	1.91	1.93	1.93	1.93	1.92	1.91	1.93	1.91
WAT2	474	474	474	474	474	474	474	474
N1	5347	5347	5347	5347	5347	5347	5347	5380
N2	7949	7988	7988	7988	7988	7988	7986	8053
PT3D	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.4
PT4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	29.5
TT3D	921	921	921	921	921	921	921	929
TT4	1334	1334	1334	1334	1334	1334	1334	1349
PT9	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.3
PTD	6.9	7.1	7.1	7.2	7.3	7.3	7.4	7.9
TT9	2313	2319	2310	2010	2010	2013	2010	2009
TTD	3960	3000	2790	2500	2250	2000	1583	929
WAS/WAP	0.3395	0.0377	0.0359	0.0347	0.0336	0.0321	0.0299	0.0259
VENG	1983	1980	1980	1980	1980	1980	1980	1980
VDUCT	2619	2419	2318	2203	2093	1971	1765	1381
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	13.73	9.51	8.93	8.38	7.82	7.26	6.30	4.37

OCT 2, 1964

ALT	75390	WASIZE	640	PT2/PT2P	0.870	WBL3	0.	
MO	2.50	PAP	0.5	PT2	7.5	WBL4	0.	
VA KTS	1441	TAM	395	TT2	846	HPEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	12741	11241	9616	8671	7702	6799	5011	3035
FGT	24443	22669	21424	20479	20110	19227	18319	15423
WAT	164	164	164	164	164	164	164	164
WFT	23296	17361	15422	13905	11384	10742	8177	4341
TSFC	1.934	1.754	1.682	1.611	1.556	1.557	1.458	1.453
BPR	1.84	1.85	1.88	1.88	1.88	1.88	1.88	1.86
WAT2	412	412	412	412	412	412	412	412
N1	5261	5261	5261	5261	5261	52 1	5261	5301
N2	8035	8036	8036	8036	8036	8035	8036	8087
PT3D	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.6
PT4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	37.8
TT3D	1037	1037	1037	1037	1037	1037	1037	1046
TT4	1431	1431	1431	1431	1431	1431	1431	1445
PT9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.7
PTD	13.9	13.0	11.1	11.1	11.2	11.3	11.3	11.9
TT9	2959	2009	2009	2009	2009	2009	2009	2009
TTD	3960	3000	2790	2500	2250	2000	1698	1744
WAS/WAP	0.3368	0.0346	0.0335	0.0324	0.0313	0.0301	0.0285	0.0253
VENG	1983	1980	1980	1980	1980	1983	1980	1981
VDUCT	2618	2418	2308	2204	2093	1977	1920	1441
AJCDE	5.23	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.51	7.55	7.13	6.71	6.28	5.85	5.29	3.81

OCT 2, 1964

ALT	75000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.	
MO	2.70	PAP	0.5	PT2	10.1	WBL4	0.	
VA KTS	1558	TAM	395	TT2	966	HPEXT	0.	
MAXTHR	MAX D/H					MIN D/H	NOT LIT	
FNT	13731	11533	10528	9506	8454	7360	6275	3216
FGT	29501	27303	26299	25277	24224	23131	22045	18987
WAT	193	193	193	193	193	193	193	193
WFT	26531	20219	17686	15404	13274	11241	9387	4913
TSFC	1.932	1.753	1.680	1.620	1.570	1.527	1.496	1.528
BPR	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85
WAT2	382	382	382	382	382	382	382	382
N1	5205	5205	5205	5205	5205	5205	5205	5253
N2	8137	8137	8137	8137	8137	8137	8137	8173
PT3D	15.6	15.6	15.6	15.6	15.6	15.6	15.6	17.0
PT4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	44.8
TT3D	1119	1119	1119	1119	1119	1119	1119	1126
TT4	1503	1503	1503	1503	1503	1503	1503	1518
PT9	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.9
PTD	14.2	14.4	14.4	14.5	14.5	14.6	14.7	15.2
TT9	2007	2007	2007	2007	2007	2007	2007	2006
TTD	3960	3000	2790	2500	2250	2000	1762	1126
WAS/WAP	0.0354	0.0331	0.0321	0.0311	0.0299	0.0288	0.0277	0.0244
VENG	1980	1980	1980	1980	1980	1980	1980	1979
VDUCT	2618	2408	2308	2204	2094	1977	1859	1495
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	8.20
AJCDD	7.61	6.78	6.41	6.04	5.67	5.28	4.90	3.64

OCT 2, 1964

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DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

ALT	55000	WASIZE	640	PT2/PT2P	0.906	WBL3	0.	
MO	2.20	PAM	1.3	PT2	12.9	WBL4	0.	
VA KTS	1262	TAM	390	TT2	787	WPEXT	0.	
MAXTHR	PAX D/H						MIN D/H	NOT LIT
FNT	26487	22976	21368	19716	18011	16235	13118	7797
FGT	49281	45771	44163	42509	40806	39029	35913	30591
WAT	344	344	344	344	344	344	344	344
WFT	50569	39534	35116	30948	27177	23565	17998	10209
TSFC	1.908	1.721	1.643	1.570	1.509	1.452	1.372	1.309
BPR	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.75
WAT2	478	478	478	478	478	478	478	478
N1	5394	5395	5395	5395	5395	5395	5395	5438
N2	8156	8156	8156	8156	8156	8156	8156	8205
PT3D	22.8	22.8	22.8	22.8	22.8	22.8	22.8	23.5
PT4	79.1	79.1	79.1	79.1	79.1	79.1	79.1	82.0
TT3D	926	926	926	926	926	926	926	935
TT4	1333	1333	1333	1333	1333	1333	1333	1349
PT9	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.7
PTD	20.0	20.3	20.5	20.7	20.8	20.9	21.1	22.3
TT9	2000	2000	2000	2000	2000	2000	2000	1998
TTD	3560	3000	2750	2500	2250	2000	1589	935
WAS/WAP	0.0395	0.0371	0.0360	0.0348	0.0336	0.0323	0.0301	0.0263
WENG	1976	1976	1976	1976	1976	1976	1976	1975
WDUCT	2618	2408	2308	2203	2093	1977	1767	1385
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	9.53	8.43	7.94	7.46	6.97	6.49	5.65	5.06

SEP 25, 1964

ALT	55000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.	
MO	2.50	PAM	1.3	PT2	17.8	WBL4	0.	
VA KTS	1434	TAM	390	TT2	875	WPEXT	0.	
MAXTHR	PAX D/H						MIN D/H	NOT LIT
FNT	33275	28377	26132	23831	21468	19009	15718	8625
FGT	66996	62099	59853	57553	55190	52730	49440	42377
WAT	448	448	448	448	448	448	448	448
WFT	63534	49088	43287	37827	32880	28154	22460	12176
TSFC	1.909	1.730	1.657	1.587	1.532	1.481	1.429	1.407
BPR	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.81
WAT2	432	432	432	432	432	432	432	432
N1	5374	5374	5374	5374	5374	5374	5374	5473
N2	8155	8155	8155	8155	8155	8159	8155	8219
PT3D	32.4	32.4	32.4	32.4	32.4	32.4	32.4	33.3
PT4	101.1	101.1	101.1	101.1	101.1	101.1	101.1	104.1
TT3D	1030	1030	1030	1030	1030	1030	1030	1039
TT4	1432	1432	1432	1432	1432	1432	1432	1448
PT9	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.7
PTD	28.9	29.4	29.5	29.7	29.9	30.C	30.2	31.6
TT9	1997	1997	1997	1997	1997	1997	1997	1996
TTD	3560	3000	2750	2500	2250	2000	1683	1059
WAS/WAP	0.0371	0.0348	0.0337	0.0326	0.0314	0.0302	0.0286	0.0251
WENG	1976	1976	1976	1976	1976	1976	1976	1976
WDUCT	2618	2408	2308	2204	2093	1977	1813	1437
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	8.66	7.68	7.25	6.82	6.39	5.95	5.57	5.07

SEP 25, 1964

ALT	55000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.	
MO	2.70	PAM	1.3	PT2	24.3	WBL4	0.	
VA KTS	1548	TAM	390	TT2	954	WPEXT	0.	
MAXTHR	PAX D/H						MIN D/H	NOT LIT
FNT	38316	32257	29487	26668	23765	20749	17634	9171
FGT	81573	75513	72744	69924	67022	64005	60890	52428
WAT	533	533	533	533	533	533	535	535
WFT	73376	55959	48896	42701	36828	31225	25921	13597
TSFC	1.919	1.735	1.661	1.601	1.550	1.505	1.470	1.483
BPR	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84
WAT2	404	404	404	404	404	404	404	404
N1	5351	5351	5351	5351	5351	5351	5351	5392
N2	8219	8219	8219	8219	8219	8219	8219	8262
PT3D	41.2	41.2	41.2	41.2	41.2	41.2	41.2	42.1
PT4	119.7	119.7	119.7	119.7	119.7	119.7	119.7	124.1
TT3D	1108	1108	1108	1108	1108	1108	1108	1114
TT4	1505	1505	1505	1505	1505	1505	1505	1520
PT9	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.9
PTD	37.2	37.7	37.9	38.1	38.2	38.4	38.6	40.1
TT9	1994	1994	1994	1994	1994	1994	1994	1994
TTD	3560	3000	2750	2500	2250	2000	1753	1116
WAS/WAP	0.0355	0.0333	0.0321	0.0312	0.0301	0.0289	0.0278	0.0244
WENG	1973	1973	1973	1973	1973	1973	1973	1973
WDUCT	2618	2408	2308	2204	2093	1977	1854	1489
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	8.00	7.12	6.73	6.34	5.94	5.54	5.12	3.78

SEP 25, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.	
MO	2.20	PAM	C.8	PT2	8.0	WBL4	0.	
VA KTS	1262	TAM	390	TT2	767	WPEXT	0.	
MAXTHR	PAR D/H						MIN D/H	NOT LIT
FNT	16370	14188	13188	12159	11099	9996	8023	4690
FGT	30505	28323	27323	26294	25236	24127	22158	18824
WAT	214	214	214	214	214	214	214	214
WFT	31563	24655	21884	19270	16905	14640	11105	6214
TSFC	1.928	1.738	1.659	1.585	1.523	1.465	1.396	1.325
BPR	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.81
WAT2	478	478	478	478	478	478	478	478
N1	5374	5374	5374	5376	5374	5374	5374	5410
N2	8092	8092	8092	8092	8092	8092	8092	8140
PT3D	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.2
PT4	48.0	48.0	48.0	48.0	48.0	48.0	48.0	49.8
TT3D	921	921	921	921	921	921	921	928
TT4	1330	1330	1330	1330	1330	1330	1330	1345
PT9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.9
PTD	11.9	12.1	12.3	12.4	12.5	12.5	12.7	13.4
TT9	2004	2004	2004	2004	2004	2004	2004	2004
TTD	3560	3000	2750	2500	2250	2000	1583	928
WAS/WAP	0.0396	0.0372	0.0360	0.0348	0.0336	0.0323	0.0301	0.0262
WENG	1978	1978	1978	1978	1978	1978	1978	1978
WDUCT	2618	2408	2308	2203	2093	1977	1764	1360
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDO	10.02	9.05	8.55	7.82	7.31	6.79	5.90	4.11

SEP 25, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.	
MO	2.50	PAM	0.8	PT2	12.5	WBL4	0.	
VA KTS	1434	TAM	390	TT2	875	WPEXT	0.	
MAXTHR	PAX D/H						MIN D/H	NOT LIT
FNT	20621	17571	16172	14739	13265	11732	9446	5228
FGT	41532	38482	37083	35649	34176	32642	30557	26138
WAT	278	278	278	278	278	278	278	278
WFT	39645	30601	26969	23551	20453	17494	13875	7434
TSFC	1.923	1.742	1.668	1.598	1.542	1.491	1.438	1.422
BPR	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.86
WAT2	432	432	432	432	432	432	432	432
N1	5355	5359	5355	5355	5355	5359	5355	5392
N2	8098	8098	8098	8098	8098	8098	8098	8162
PT3D	19.7	19.7	19.7	19.7	19.7	19.7	19.7	20.2
PT4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	64.8
TT3D	1025	1025	1025	1025	1025	1025	1025	1033
TT4	1429	1429	1429	1429	1429	1429	1429	1444
PT9	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.4
PTD	17.4	17.7	17.8	17.9	18.0	18.1	18.3	19.1
TT9	2002	2002	2002	2002	2002	2002	2002	2001
TTD	3560	3000	2750	2500	2250	2000	1678	1033
WAS/WAP	0.0372	0.0348	0.0337	0.0326	0.0315	0.0302	0.0286	0.0250
WENG	1977	1977	1977	1977	1977	1977	1977	1976
WDUCT	2618	2408	2308	2204	2093	1977	1815	1434
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	9.00	7.97	7.52	7.07	6.62	6.16	5.55	3.99

SEP 25, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.	
MO	2.70	PAM	0.8	PT2	16.3	WBL4	0.	
VA KTS	1548	TAM	390	TT2	954	WPEXT	0.	
MAXTHR	PAX D/H						MIN D/H	NOT LIT
FNT	23768	19996	18271	16514	14705	12826	10067	5553
FGT	50591	46820	45096	43337	41528	39648	37670	32377
WAT	330	330	330	330	330	330	330	330
WFT	45756	34867	30510	26578	22907	19403	16030	8319
TSFC	1.925	1.744	1.670	1.609	1.558	1.513	1.478	1.498
BPR	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89
WAT2	404	404	404	404	404	404	404	404
N1	5331	5331	5331	5331	5331	5331	5331	5371
N2	8180	8180	8180	8180	8180	8180	8180	8219
PT3D	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.6
PT4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	75.7
TT3D	1104	1104	1104	1104	1104	1104	1104	1111
TT4	1501	1501	1501	1501	1501	1501	1501	1516
PT9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.4
PTD	22.5	22.9	23.0	23.1	23.2	23.3	23.4	24.4
TT9	2000	2000	2000	2000	2000	2000	2000	1999
TTD	3560	3000	2750	2500	2250	2000	1749	1111
WAS/WAP	0.0356	0.0334	0.0323	0.0312	0.0301	0.0290	0.0277	0.0244
WENG	1976	1976	1976	1976	1976	1976	1976	1976
WDUCT	2618	2408	2308	2204	2093	1977	1852	1485
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	8.26	7.34	6.93	6.53	6.12	5.70	5.26	3.88

SEP 25, 1964

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	75000	MASIZE	.640	PT2/PT2P	0.904	WBL1	0.
MN	2.20	P&W	0.5	PT2	5.8	WBL4	0.
L/DA STS	3270	TAM	395	172	776	MPCRT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	9933	8405	7586	7347	6685	5999	4766	3678
FCT	18710	17599	16785	16161	15483	14765	13160	11489
WAT	132	132	132	132	132	132	132	132
WFT	19785	15338	13587	13125	10641	9009	6768	3678
TSFC	1.979	1.783	1.736	1.629	1.561	1.453	1.429	1.366
DPR	1.65	1.59	1.68	1.65	1.65	1.65	1.65	1.65
WAT2	478	478	478	478	478	478	478	478
NL	8142	8142	8142	8142	8142	8142	8142	8142
N2	7987	7987	7987	7987	7987	7987	7987	8040
PT30	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
PT5	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
T30	919	919	919	919	919	919	919	927
T45	1335	1335	1335	1335	1335	1335	1335	1350
P2P	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.3
P30	7.6	6.9	7.0	7.1	7.2	7.2	7.3	7.8
T26	2010	2010	2010	2010	2010	2010	2010	2004
T10	3300	3000	2750	2500	2250	2000	1981	927
WAIRFLOW	0.0999	0.0971	0.0950	0.0947	0.0918	0.0871	0.0798	0.0758
WBL2	1981	1981	1981	1981	1981	1981	1981	1980
VOUCT	2618	2408	2308	2203	2043	1933	1764	1354
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCMD	11.13	8.79	9.28	8.42	8.04	7.46	6.48	4.46

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ALT	75000	MASIZE	.640	PT2/PT2P	0.870	WBL1	0.
MN	2.50	P&W	0.5	PT2	7.4	WBL4	0.
L/DA STS	3443	TAM	395	172	884	MPCRT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	12618	10721	9869	8976	8033	7081	5787	3919
FCT	25677	24731	23987	23176	22348	21548	20041	18757
WAT	172	172	172	172	172	172	172	172
WFT	24683	18979	16698	14547	12680	10740	8478	4418
TSFC	1.955	1.770	1.695	1.624	1.568	1.517	1.465	1.461
DPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
WAT2	432	432	432	432	432	432	432	432
NL	9349	9349	9349	9349	9349	9349	9349	9383
N2	8040	8040	8040	8040	8040	8040	8040	8040
PT30	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.8
PT5	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.7
T30	1027	1027	1027	1027	1027	1027	1027	1035
T45	1436	1436	1436	1436	1436	1436	1436	1450
P2P	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.8
P30	10.4	10.4	10.3	10.4	10.7	10.7	10.8	11.1
T26	2513	2007	2353	2283	2067	2	2 57	2506
T10	3300	3000	2750	2500	2250	2000	1679	1015
WAIRFLOW	0.0990	0.0969	0.0954	0.0939	0.0919	0.0901	0.0861	0.0768
WBL2	1979	1979	1979	1979	1979	1979	1979	1979
VOUCT	2618	2408	2308	2204	2043	1937	1816	1654
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCMD	9.61	8.50	8.01	7.53	7.04	6.55	5.69	4.26

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ALT	75000	MASIZE	.640	PT2/PT2P	0.848	WBL1	0.
MN	2.70	P&W	0.5	PT2	10.1	WBL4	0.
L/DA STS	3598	TAM	395	172	984	MPCRT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	14349	12718	11142	10046	8938	7764	6527	3223
FCT	27256	26408	25733	25115	25088	24434	23214	19915
WAT	204	204	204	204	204	204	204	204
WFT	29833	25501	18647	16400	14096	11897	9607	4948
TSFC	1.952	1.768	1.693	1.632	1.581	1.536	1.503	1.540
DPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
WAT2	404	404	404	404	404	404	404	404
NL	9315	9315	9315	9315	9315	9315	9315	9358
N2	8146	8146	8146	8146	8146	8146	8146	8183
PT30	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.4
T26	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
T30	1107	1107	1107	1107	1107	1107	1107	1114
T45	1509	1509	1509	1509	1509	1509	1509	1524
P2P	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.0
P30	13.9	13.8	13.7	13.8	13.8	13.9	14.0	14.6
T26	2004	2003	2004	2005	2005	2005	2005	2004
T10	3300	3000	2750	2500	2250	2000	1752	1115
WAIRFLOW	0.0985	0.0952	0.0933	0.0911	0.0900	0.0886	0.0876	0.0842
WBL2	1979	1979	1979	1979	1979	1979	1979	1979
VOUCT	2618	2408	2308	2204	2043	1937	1854	1688
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCMD	8.72	7.74	7.31	6.88	6.44	6.00	5.56	4.00

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ALT	55000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.	
MO	2.20	PAM	1.3	PT2	12.9	WBL4	0.	
VA KTS	1262	TAM	390	TT2	767	HPEXT	0.	

PARTHR	MAX D/H						MIN D/H NOT LIT	
FNT	25981	22551	20976	19360	17697	14963	12957	[illegible]
FGT	48318	44887	43313	41696	40034	38300	35296	30122
WAT	337	337	337	337	337	337	337	337
WFT	49283	38592	34302	30256	26593	23085	17735	10151
TSFC	1.897	1.711	1.635	1.565	1.503	1.446	1.369	1.308
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.71
WAT2	468	468	468	468	468	468	468	468
N1	5367	5367	5367	5367	5367	5367	5367	5414
N2	8156	8156	8156	8156	8156	8156	8156	8209
PT30	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.8
PT4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	81.7
TT30	931	931	931	931	931	931	931	940
TT4	1332	1332	1332	1332	1332	1332	1332	1348
PT9	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.6
PTD	20.5	20.9	21.1	21.2	21.3	21.5	21.6	22.7
TT9	2000	2000	2000	2000	2000	2000	2000	1999
TTD	3560	3200	2750	2500	2250	2000	1593	940
WAS/WAP	0.0395	0.0371	0.0359	0.0348	0.0336	0.0323	0.0302	0.0264
VENG	1976	1976	1976	1976	1976	1976	1976	1975
VDUCT	2618	2408	2308	2203	2093	1977	1770	1369
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	8.99	7.96	7.51	7.06	6.61	6.15	5.57	3.76

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ALT	55000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.	
MO	2.50	PAM	1.3	PT2	19.8	WBL4	0.	
VA KTS	1434	TAM	390	TT2	875	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	30381	25987	23969	21919	19809	17615	14363	8648
FGT	41359	36961	34942	32893	30783	28589	25837	19672
WAT	412	412	412	412	412	412	412	412
WFT	56999	44277	39011	34353	29996	25835	21110	12132
TSFC	1.876	1.709	1.628	1.567	1.514	1.467	1.420	1.395
BPR	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.60
WAT2	397	397	397	397	397	397	397	397
N1	5296	5296	5296	5296	5296	5296	5296	5381
N2	8152	8152	8152	8152	8152	8152	8152	8216
PT30	34.2	34.2	34.2	34.2	34.2	34.2	34.2	35.2
PT4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	104.[illegible]
TT30	1051	1051	1051	1051	1051	1051	1051	1081
TT4	1428	1428	1428	1428	1428	1428	1428	1446
PT9	17.8	17.8	17.8	17.8	17.8	17.8	17.8	18.6
PTD	31.6	32.0	32.1	32.2	32.3	32.5	32.6	34.0
TT9	1998	1998	1998	1998	1998	1998	1998	1996
TTD	3560	3000	2750	2500	2250	2000	1702	1061
WAS/WAP	0.0368	0.0344	0.0333	0.0323	0.0314	0.0302	0.0288	0.0255
VENG	1975	1975	1975	1975	1975	1975	1975	1974
VDUCT	2618	2408	2308	2204	2093	1977	1828	1453
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDO	8.97	8.21	5.88	5.54	5.20	4.85	4.41	3.19

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ALT	55000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.	
MO	2.70	PAM	1.3	PT2	26.3	WBL4	0.	
VA KTS	1548	TAM	390	TT2	954	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	32946	27900	25595	23258	20853	18354	16114	8663
FGT	70838	65792	63491	61151	58745	56247	54006	46555
WAT	466	466	466	466	466	466	466	466
WFT	61632	47656	41775	36647	31862	27297	23515	12732
TSFC	1.871	1.701	1.632	1.576	1.528	1.487	1.459	1.470
BPR	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.54
WAT2	354	354	354	354	354	354	354	396
N1	5291	5291	5291	5291	5291	5291	5291	5303
N2	8211	8211	8211	8211	8211	8211	8211	8189
PT30	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.7
PT4	118.7	118.7	118.7	118.7	118.7	118.7	118.7	120.1
TT30	1143	1143	1143	1143	1143	1143	1143	1143
TT4	1502	1502	1502	1502	1502	1502	1502	1507
PT9	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.1
PTD	42.2	42.5	42.6	42.7	42.8	42.9	43.0	43.4
TT9	1996	1996	1996	1996	1996	1996	1996	1997
TTD	3560	3000	2750	2500	2250	2000	1785	1143
WAS/WAP	0.0351	0.0330	0.0321	0.0311	0.0300	0.0289	0.0280	0.0247
VENG	1974	1974	1974	1974	1974	1974	1974	1950
VDUCT	2618	2408	2309	2204	2094	1977	1871	1507
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.22
AJCDO	5.76	5.18	4.88	4.61	4.33	4.04	3.79	2.90

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ALT	65000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.	
MO	2.20	PAM	0.8	PT2	8.0	WBL4	0.	
VA KTS	1262	TAM	390	TT2	767	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	16072	13935	12956	11949	10912	9831	7926	4684
FGT	29923	27786	26807	25800	24763	23671	21777	18534
WAT	209	209	209	209	209	209	209	209
WFT	30794	24079	21384	18845	16547	14345	10939	6193
TSFC	1.916	1.728	1.651	1.577	1.516	1.459	1.380	1.322
BPR	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.77
WAT2	468	468	468	468	468	468	468	468
N1	5338	5338	5338	5338	5338	5338	5338	5381
N2	8091	8091	8091	8091	8091	8091	8091	8141
PT30	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.4
PT4	47.7	47.7	47.7	47.7	47.7	47.7	47.7	49.5
TT30	925	925	925	925	925	925	925	933
TT4	1328	1328	1328	1328	1329	1328	1328	1343
PT9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.9
PTD	12.3	12.5	12.6	12.7	12.8	12.9	13.0	13.7
TT9	2005	2005	2005	2005	2005	2005	2005	2004
TTD	3560	3000	2750	2500	2250	2000	1587	933
WAS/WAP	0.0396	0.0371	0.0360	0.0348	0.0336	0.0323	0.0301	0.0252
VENG	1978	1978	1978	1978	1978	1978	1978	1978
VDUCT	2618	2408	2308	2203	2093	1977	1767	1364
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.45	8.36	7.87	7.40	6.92	6.43	5.80	3.92

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ALT	65000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.	
MO	2.50	PAM	0.8	PT2	12.3	WBL4	0.	
VA KTS	1434	TAM	390	TT2	875	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	18863	16119	14953	13571	12250	10877	9117	5236
FGT	38070	35323	34060	32778	31437	30064	28326	24461
WAT	255	255	255	255	255	255	255	255
WFT	35661	27844	24538	21412	18674	16059	13031	7378
TSFC	1.889	1.719	1.639	1.578	1.524	1.476	1.429	1.410
BPR	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.66
WAT2	397	397	397	357	397	397	397	397
N1	5245	5245	5245	5245	5245	5245	5245	5320
N2	8096	8096	8096	8056	8096	8096	8096	8158
PT30	20.7	20.7	20.7	20.7	20.7	20.7	20.7	21.3
PT4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	63.3
TT30	1044	1044	1044	1044	1044	1044	1044	1056
TT4	1423	1423	1423	1423	1423	1423	1423	1440
PT9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	11.3
PTD	19.1	19.3	19.4	19.5	19.5	19.6	19.7	20.5
TT9	2004	2004	2004	2004	2004	2004	2004	2002
TTD	3560	3000	2750	2500	2250	2000	1695	1094
WAS/WAP	0.0369	0.0347	0.0336	0.0325	0.0314	0.0303	0.0288	0.0256
VENG	1978	1978	1978	1978	1978	1978	1978	1977
VDUCT	2618	2408	2308	2204	2093	1977	1824	1468
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDO	7.26	6.47	6.12	5.76	5.41	5.04	4.58	3.31

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ALT	65000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.	
MO	2.70	PAM	0.8	PT2	16.3	WBL4	0.	
VA KTS	1548	TAM	390	TT2	954	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	20487	17328	15886	14421	12913	11348	9906	5542
FGT	43986	40825	39383	37917	36410	34845	33403	29039
WAT	289	289	289	289	289	289	289	289
WFT	38539	29633	26064	22643	19837	16969	14730	8176
TSFC	1.881	1.710	1.641	1.584	1.536	1.495	1.467	1.475
BPR	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.56
WAT2	354	354	354	354	354	354	354	396
N1	5233	5233	5233	5233	5233	5233	5233	5296
N2	8169	8169	8169	8169	8169	8169	8169	8198
PT30	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.6
PT4	72.1	72.1	72.1	72.1	72.1	72.1	72.1	74.6
TT30	1136	1136	1136	1136	1136	1136	1136	1143
TT4	1496	1496	1496	1496	1496	1496	1496	1511
PT9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.2
PTD	25.6	25.8	25.8	25.9	26.0	26.0	26.1	26.8
TT9	2001	2001	2001	2001	2001	2001	2001	1993
TTD	3560	3000	2750	2500	2250	2000	1779	1143
WAS/WAP	0.0352	0.0331	0.0321	0.0311	0.0301	0.0290	0.0280	0.0269
VENG	1977	1977	1977	1977	1977	1977	1977	1973
VDUCT	2618	2408	2309	2204	2094	1977	1868	1507
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.19
AJCDO	5.96	5.34	5.06	4.77	4.48	4.18	3.91	2.92

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[illegible]

[illegible]

ALT	75000	MASIZE	640	PT2/PT2P	0.906	WBL3	0.
MN	2.20	PAR	0.5	PT2	5.0	WBL4	0.
WR_KTS	1270	TAR	395	TT2	776	WPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	9798	8670	7861	7234	6583	5913	4717	
FGT	18415	17087	16478	15851	15205	14530	13514	
WAT	179	179	179	179	179	179	179	
WFT	192135	169185	151581	131174	108728	81277	54153	
TSFC	1.953	1.769	1.689	1.614	1.551	1.493	1.413	
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	
WAT2	468	468	468	468	468	468	468	
N1	9321	9321	9321	9321	9321	9321	9321	9357
N2	7987	7987	7987	7987	7987	7987	7987	8050
P130	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3
T2K	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.4
TT30	923	923	923	923	923	923	923	923
TT4	1332	1332	1332	1332	1332	1332	1432	1361
FT0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
FT8	7.9	7.2	7.3	7.3	7.4	7.5	7.5	8.0
TT4	2011	2011	2011	2011	2011	2011	2011	2011
TTO	3560	3000	2750	2500	2250	2000	1585	1
WAT/WAP	0.0355	0.0378	0.0334	0.0347	0.0334	0.0321	0.0299	0.
WBL3	1981	1981	1981	1981	1981	1981	1981	
VGUST	2618	24084	23104	22014	20943	19779	17766	
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	
AJCOR	10.41	9.19	8.44	8.10	7.93	7.83	6.18	

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ALT	75000	MASIZE	640	PT2/PT2P	0.870	WBL3	0.
MN	2.30	PAR	0.5	PT2	7.8	WBL4	0.
WR_KTS	1443	TAR	395	TT2	866	WPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	12479	9488	9047	8363	7636	6972	5667	3010
FGT	23550	21759	21019	20215	19382	18523	17617	14340
WAT	158	158	158	158	158	158	158	158
WFT	22237	17186	15696	13346	11918	9244	7949	4357
TSFC	1.530	1.393	1.665	1.503	1.369	1.301	1.454	1.448
BPR	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.78
WAT2	397	397	397	397	397	397	397	397
N1	9198	9198	9198	9198	9198	9198	9198	9251
N2	8031	8031	8031	8031	8031	8031	8031	8069
P130	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.7
T2K	36.0	36.0	36.0	36.0	36.0	36.0	36.0	37.3
TT30	1044	1044	1044	1044	1044	1044	1044	1053
TT4	1428	1428	1428	1428	1428	1428	1428	1441
FT0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.7
FT8	11.2	11.4	11.5	11.7	11.8	11.6	11.7	12.2
TT4	2010	2010	2010	2010	2010	2010	2010	2006
TTO	3560	3000	2750	2500	2250	2000	1695	1051
WAT/WAP	0.0358	0.0344	0.0335	0.0324	0.0313	0.0301	0.0286	0.0251
WBL3	1255	1281	1981	1981	1981	1981	1981	1980
VGUST	2618	24084	23008	22064	20993	19779	18742	14611
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCOR	9.77	8.92	8.35	8.15	5.97	5.58	4.88	3.54

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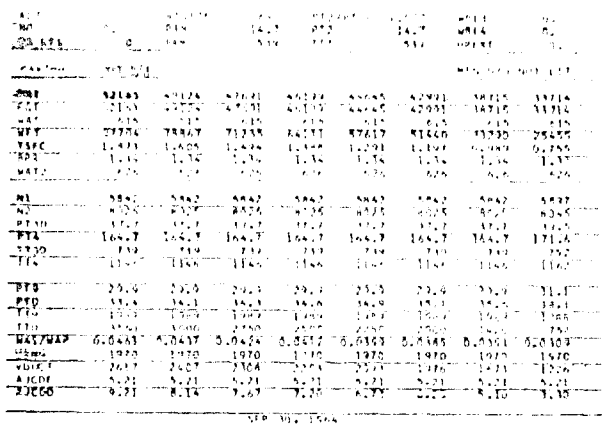
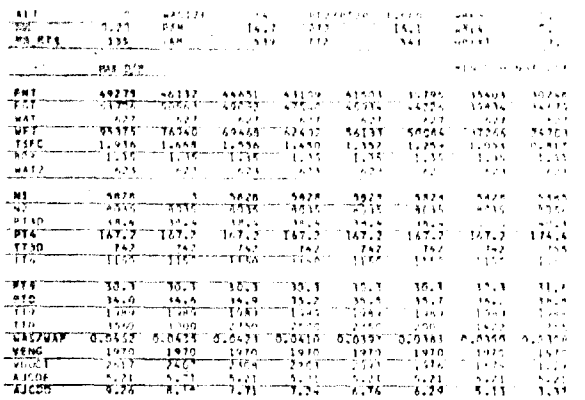
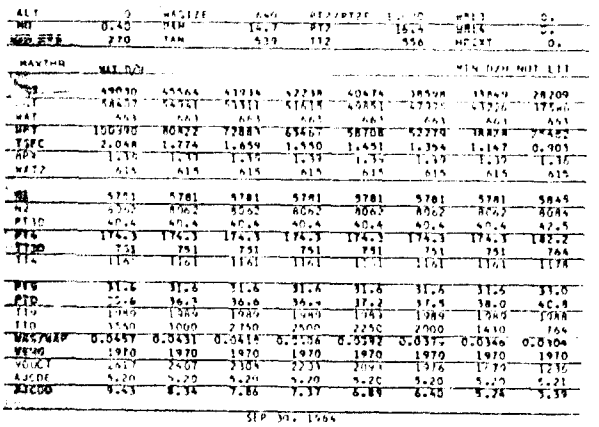
ALT	75000	MASIZE	640	PT2/PT2P	0.846	WBL3	0.
MN	2.70	PAR	0.5	PT2	10.1	WBL4	0.
WR_KTS	1598	TAR	395	TT2	966	WPEXT	0.

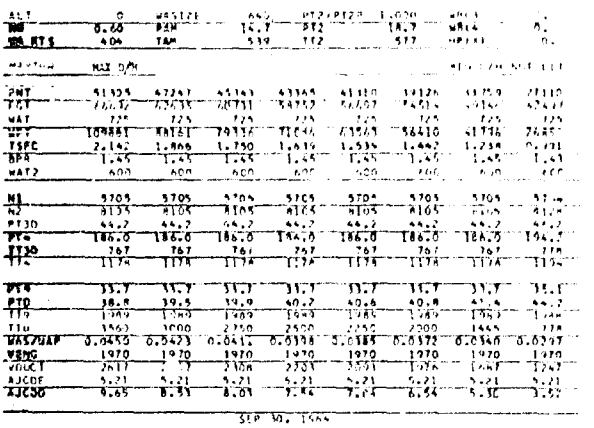
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	12607	10621	9719	8796	7846	6861	5955	3240
FGT	27259	25962	24335	23414	22466	21481	20575	17603
WAT	179	179	179	179	179	179	179	179
WFT	24052	18428	16166	14127	12226	10015	8073	4196
TSFC	1.908	1.734	1.664	1.696	1.558	1.518	1.490	1.512
BPR	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.65
WAT2	354	354	354	354	354	354	354	354
N1	5157	5157	5157	5157	5157	5157	5157	5229
N2	8131	8131	8131	8131	8131	8131	8131	8168
P130	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.6
T2K	42.9	42.9	42.9	42.9	42.9	42.9	42.9	44.8
TT30	1137	1137	1137	1137	1137	1137	1137	1146
TT4	1500	1500	1500	1500	1500	1500	1500	1517
FT0	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.8
FT8	15.2	15.3	15.6	15.6	15.5	15.5	15.6	16.1
TT4	2058	2058	2008	2058	2058	2058	2008	2058
TTO	3560	3000	2750	2500	2250	2000	1779	1146
WAT/WAP	0.0351	0.0338	0.0328	0.0318	0.0304	0.0288	0.0278	0.0247
WBL3	1980	1980	1980	1980	1980	1980	1980	1979
VGUST	2614	24084	23104	22064	20944	19779	18628	15068
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCOR	8.34	7.67	7.37	7.07	6.78	6.44	6.15	5.09

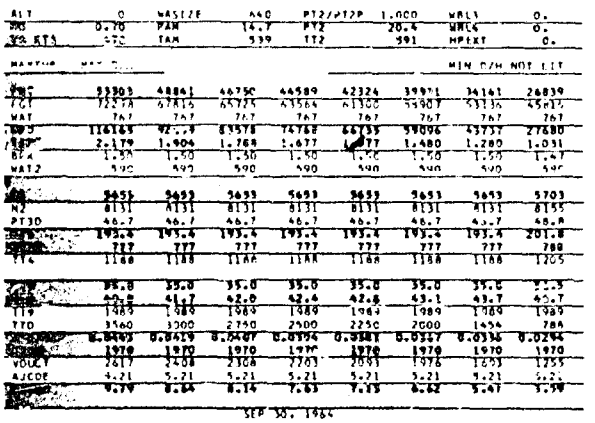
SEP 30, 1964

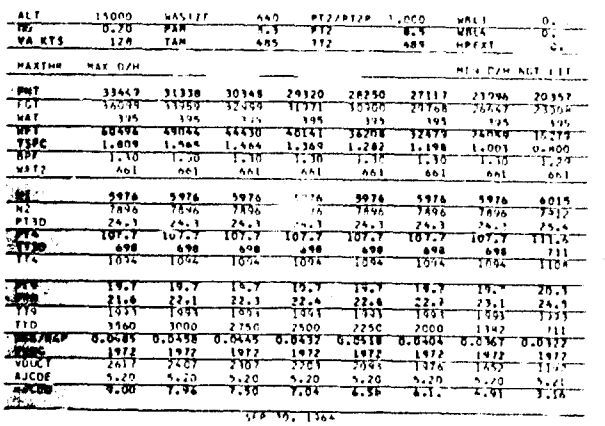












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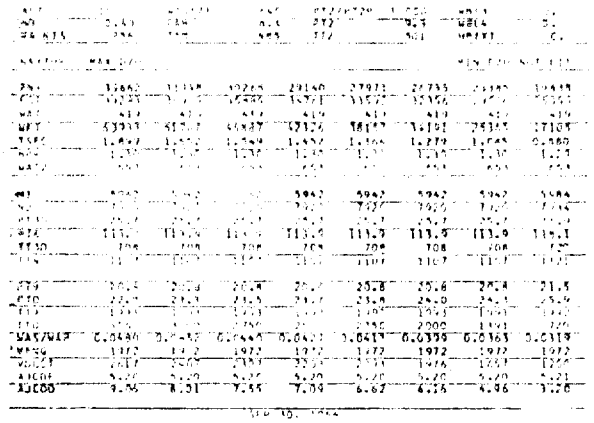

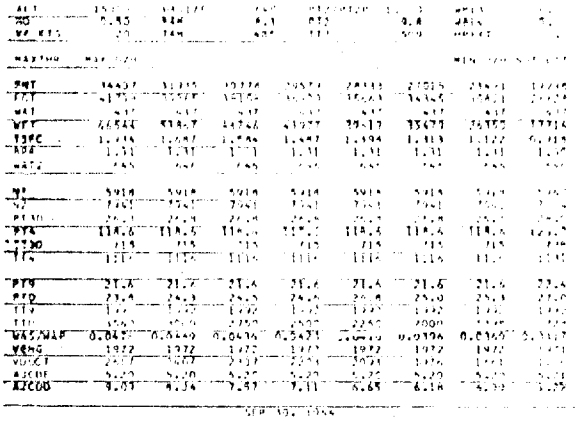

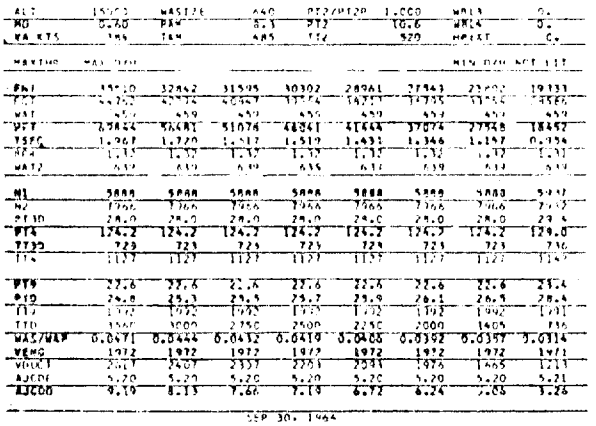

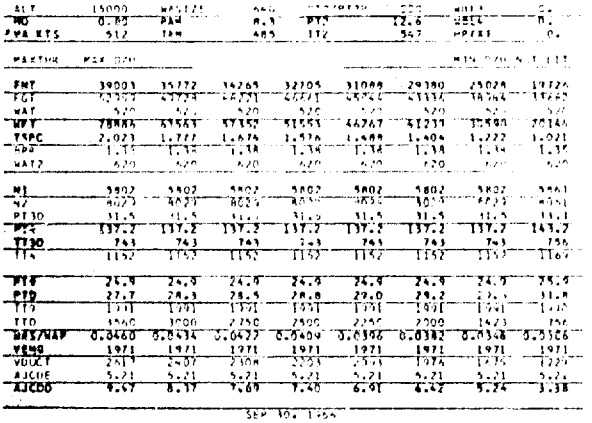

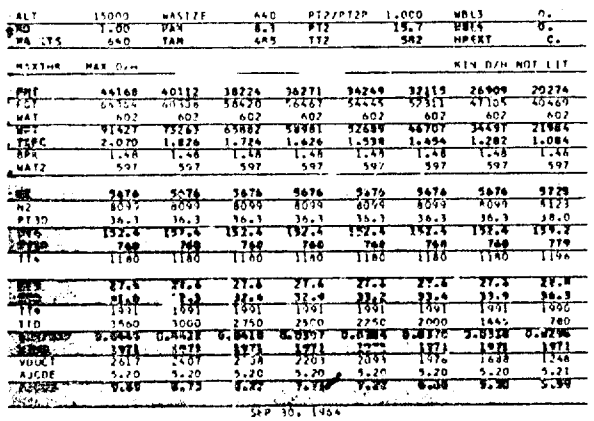

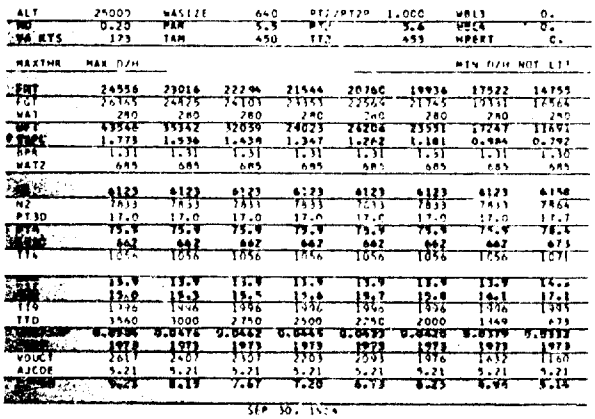

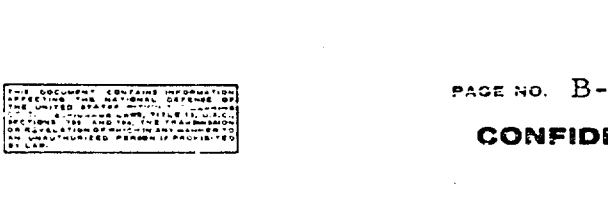

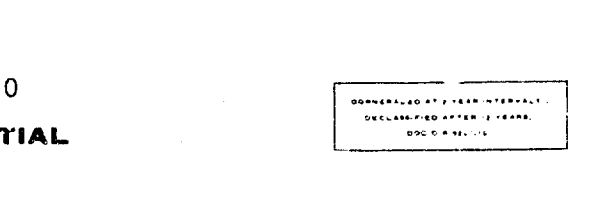

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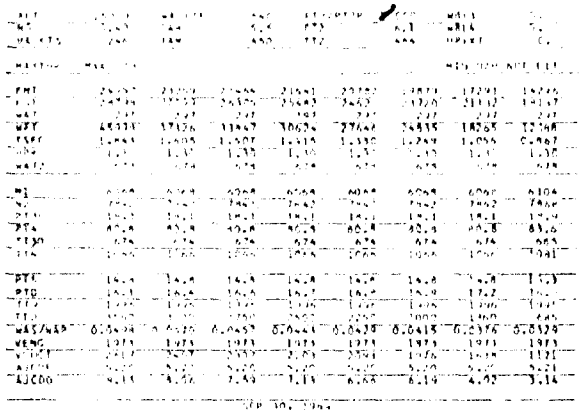

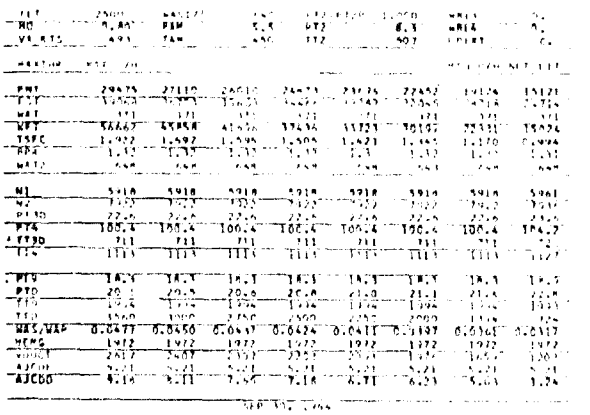

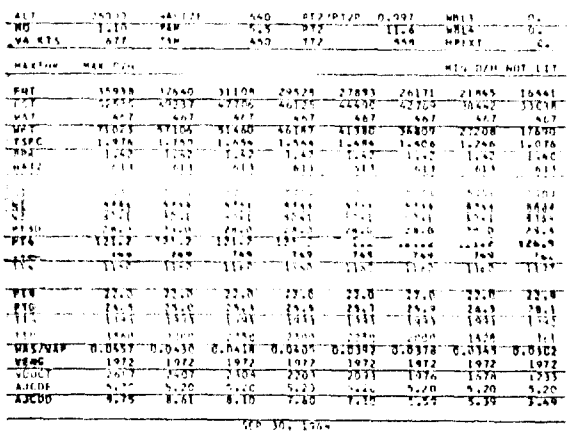

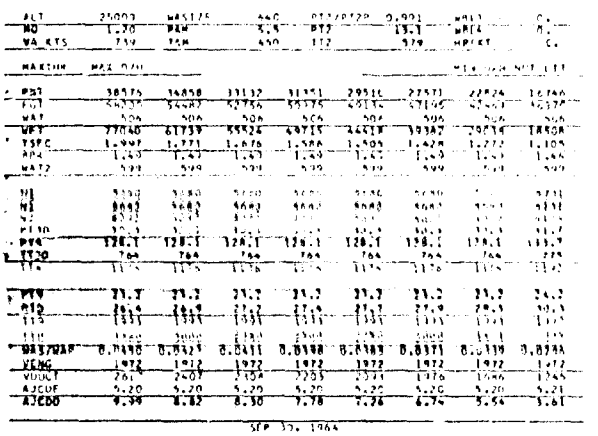

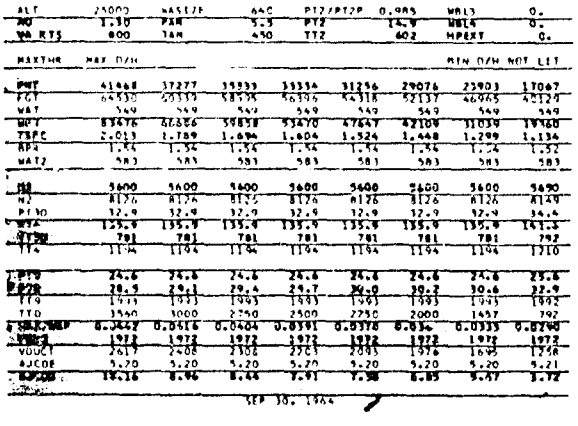

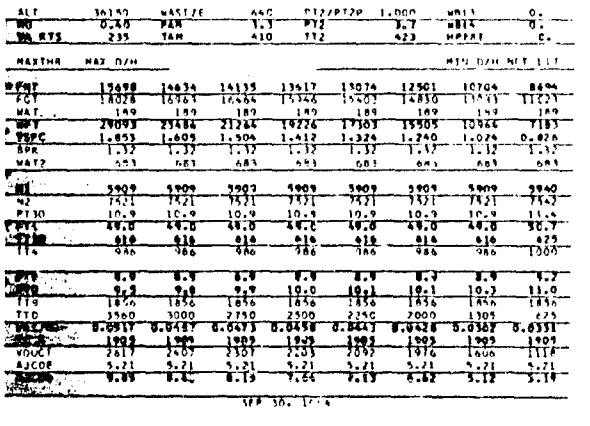

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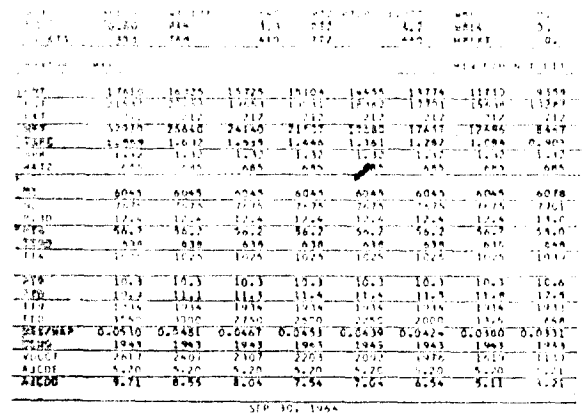
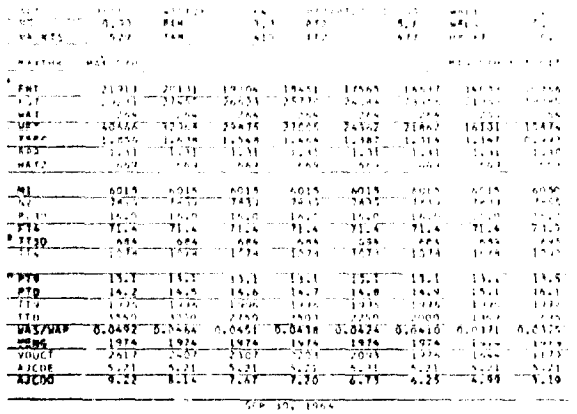
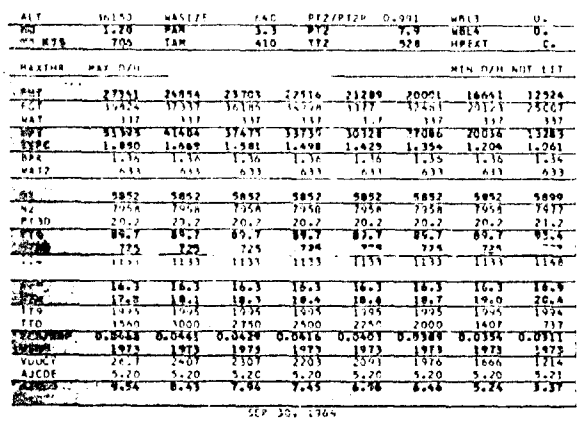


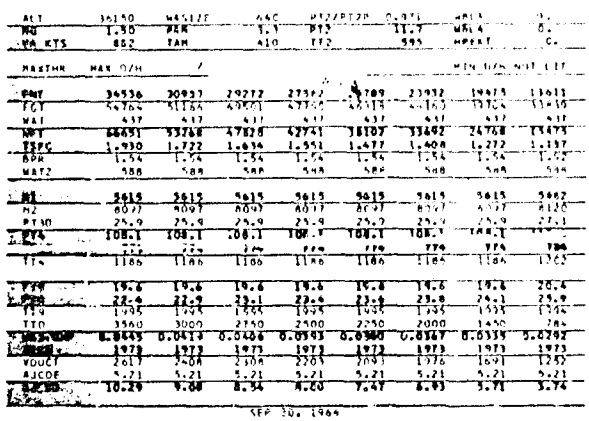
SEP 30, 1964



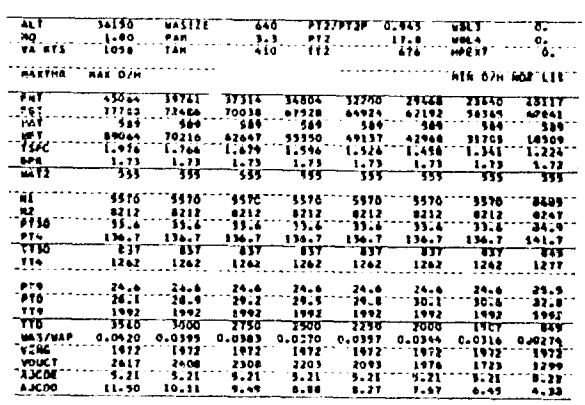
SEP 30, 1964



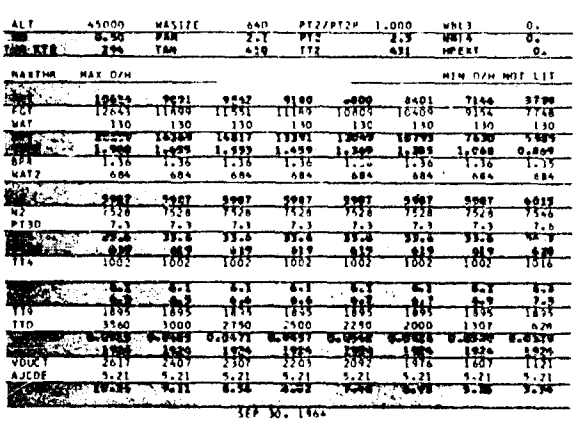
SEP 30, 1964



SEP 30, 1964



OCT 2, 1964



SEP 30, 1964

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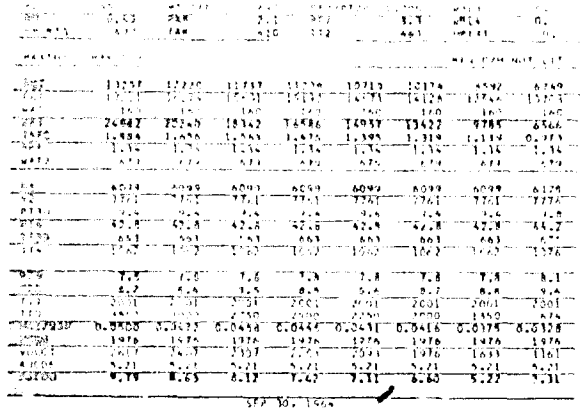

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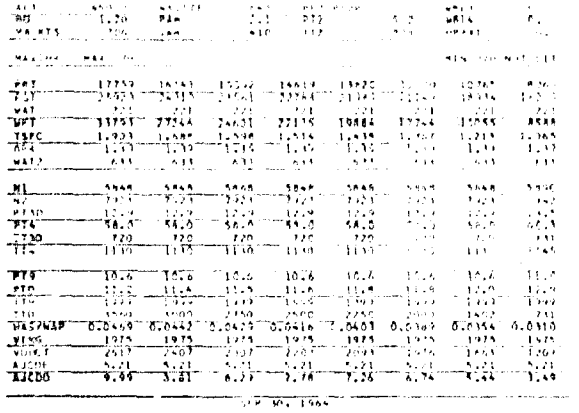

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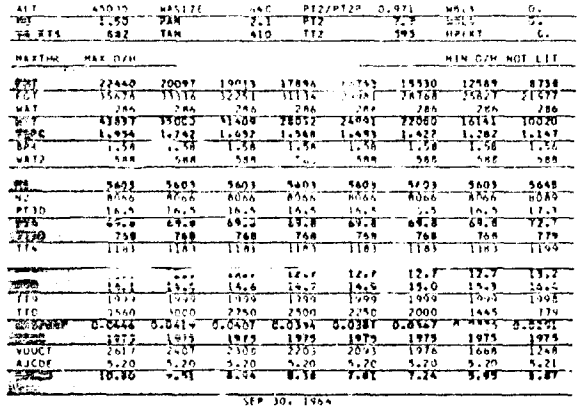

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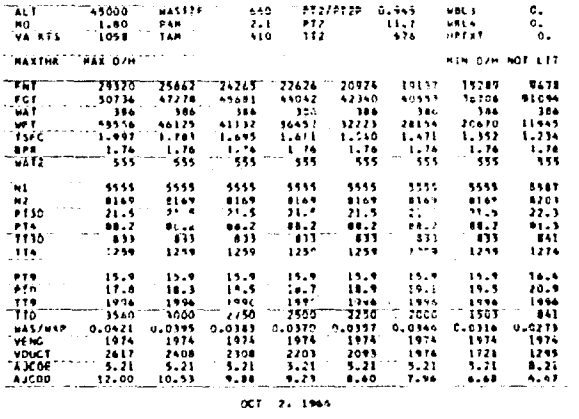
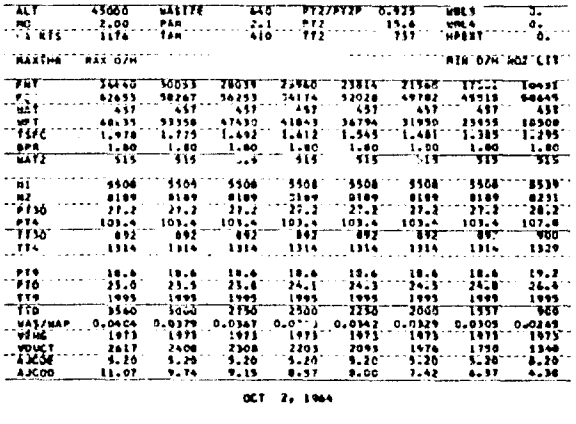
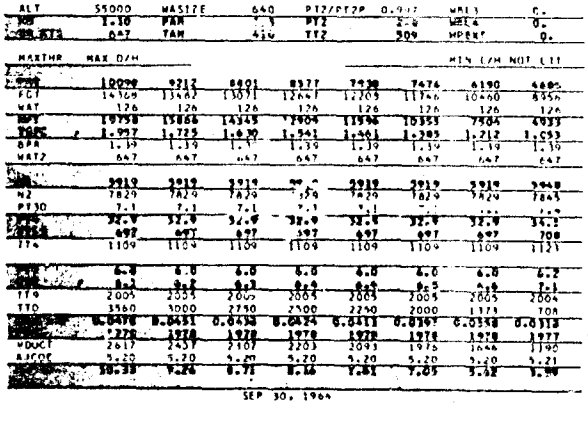


OCT 2, 1964



OCT 2, 1964



SEP 30, 1964

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ALT	55000	WAS/ZF	640	PT2/PT2P	0.945	WBLT	0.
MO	1.80	PAM	1.3	PT2	7.2	WBL4	0.
VA KTS	1058	TAM	410	TT2	676	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	17961	15842	14461	13856	12806	11705	9300	5814
FGT	31277	29116	28133	27128	26081	24913	22576	19080
MAT	239	239	234	219	219	219	219	219
WFT	34511	28731	25605	22676	20010	17483	12731	7277
TSFC	2.013	1.816	1.723	1.647	1.566	1.484	1.371	1.252
BPR	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81
MAT2	555	555	555	555	555	555	555	555
N1	5543	5543	5543	5543	5543	5543	5543	5572
N2	8110	8110	8110	8110	8110	8110	8110	8145
PT10	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.3
PT4	53.7	53.7	53.7	53.7	53.7	53.7	53.7	55.9
TT10	827	827	827	827	827	827	827	839
TT4	1295	1252	1255	1295	1259	1255	1255	1270
PT9	9.7	9.7	9.7	9.7	9.7	9.7	9.7	10.0
PT0	10.4	10.7	10.8	11.0	11.1	11.3	11.5	12.4
TT9	2001	2001	2001	2001	2001	2001	2001	2014
TT0	3560	3000	2750	2500	2250	2000	1495	835
WAS/WAP	0.0422	0.0396	0.0384	0.0371	0.0358	0.0344	0.0315	0.0272
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2617	2408	2308	2203	2093	1976	1718	1291
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	12.07	11.26	10.55	9.84	9.16	8.47	7.07	4.70

OCT 2, 1964

ALT	55000	WAS/ZF	640	PT2/PT2P	0.945	WBLT	0.
MO	1.80	PAM	1.3	PT2	7.2	WBL4	0.
VA KTS	1058	TAM	410	TT2	676	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	17961	15842	14461	13856	12806	11705	9300	5814
FGT	31277	29116	28133	27128	26081	24913	22576	19080
MAT	239	239	234	219	219	219	219	219
WFT	34511	28731	25605	22676	20010	17483	12731	7277
TSFC	2.013	1.816	1.723	1.647	1.566	1.484	1.371	1.252
BPR	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81
MAT2	555	555	555	555	555	555	555	555
N1	5543	5543	5543	5543	5543	5543	5543	5572
N2	8110	8110	8110	8110	8110	8110	8110	8145
PT10	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.3
PT4	53.7	53.7	53.7	53.7	53.7	53.7	53.7	55.9
TT10	827	827	827	827	827	827	827	839
TT4	1295	1252	1255	1295	1259	1255	1255	1270
PT9	9.7	9.7	9.7	9.7	9.7	9.7	9.7	10.0
PT0	10.4	10.7	10.8	11.0	11.1	11.3	11.5	12.4
TT9	2001	2001	2001	2001	2001	2001	2001	2014
TT0	3560	3000	2750	2500	2250	2000	1495	835
WAS/WAP	0.0422	0.0396	0.0384	0.0371	0.0358	0.0344	0.0315	0.0272
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2617	2408	2308	2203	2093	1976	1718	1291
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	12.07	11.26	10.55	9.84	9.16	8.47	7.07	4.70

OCT 2, 1964

ALT	55000	WAS/ZF	640	PT2/PT2P	0.925	WBLT	0.
MO	2.00	PAM	1.3	PT2	9.6	WBL4	0.
VA KTS	1176	TAM	410	TT2	757	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	21514	18503	17256	15972	14643	13250	10575	6301
FGT	38701	35990	34746	33459	32130	30738	28062	23789
MAT	283	283	283	283	283	283	283	283
WFT	42462	33722	29514	26021	22849	19837	14190	8259
TSFC	2.002	1.795	1.710	1.629	1.542	1.452	1.322	1.214
BPR	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.86
MAT2	515	515	515	515	515	515	515	515
N1	4497	5497	5497	5497	5497	4401	5497	6555
N2	8132	8132	8132	8132	8132	8132	8132	8180
PT10	16.4	16.4	16.4	16.4	16.4	16.4	16.4	17.0
PT4	63.1	63.1	63.1	63.1	63.1	63.1	63.1	65.3
TT10	887	887	887	887	887	887	887	895
TT4	1311	1311	1311	1311	1311	1311	1311	1326
PT9	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.7
PT0	13.7	14.0	14.2	14.4	14.5	14.6	14.9	15.8
TT9	2000	2000	2000	2000	2000	2000	2000	2000
TT0	3560	3000	2750	2500	2250	2000	1553	895
WAS/WAP	0.0394	0.0379	0.0367	0.0355	0.0342	0.0329	0.0305	0.0264
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2617	2408	2308	2203	2093	1976	1768	1336
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	11.64	10.23	9.60	8.98	8.37	7.76	6.57	4.94

OCT 2, 1964

ALT	55000	WAS/ZF	640	PT2/PT2P	0.904	WBLT	0.
MO	2.20	PAM	1.3	PT2	11.4	WBL4	0.
VA KTS	1294	TAM	410	TT2	305	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	24730	21329	19765	18154	16900	14778	11934	6799
FGT	47348	43947	42302	40774	39117	37387	34551	28417
MAT	333	333	333	333	333	333	333	333
WFT	48736	37682	33529	29627	25309	22150	16998	8281
TSFC	1.971	1.774	1.696	1.621	1.550	1.500	1.424	1.266
BPR	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88
MAT2	474	474	474	474	474	474	474	474
N1	5432	5432	5432	5432	5432	5432	5432	8466
N2	8134	8134	8134	8134	8134	8134	8134	8191
PT10	21.4	21.4	21.4	21.4	21.4	21.4	21.4	22.5
PT4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	76.6
TT10	955	955	955	955	955	955	955	963
TT4	1371	1371	1371	1371	1371	1371	1371	1386
PT9	13.2	13.2	13.2	13.2	13.2	13.8	13.8	13.7
PT0	18.6	18.8	19.0	19.2	19.3	19.4	19.6	20.7
TT9	1999	1999	1999	1999	1999	1999	1999	1998
TT0	3560	3000	2750	2500	2250	2000	1815	965
WAS/WAP	0.0387	0.0363	0.0352	0.0340	0.0328	0.0319	0.0295	0.0257
VENG	1975	1975	1975	1975	1975	1975	1975	1975
VDUCT	2618	2409	2308	2203	2093	1977	1781	1385
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	10.19	8.89	8.46	7.94	7.42	6.99	6.08	4.29

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ALT	45000	WAS/EE	640	PT2/PT2P	0.870	WBLT	0.
MO	2.50	PAM	1.3	PT2	19.8	WBL4	0.
VA KTS	1470	TAM	410	TT2	419	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	29845	25139	23242	21110	18913	16628	11961	7485
FGT	62072	57516	55419	53287	51090	48805	44138	34662
MAT	417	417	417	417	417	417	417	417
WFT	58135	44712	39163	34242	29643	25252	20195	10989
TSFC	1.945	1.765	1.685	1.622	1.567	1.519	1.435	1.468
BPR	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.92
MAT2	412	412	412	412	412	412	412	412
N1	5562	5562	5562	5562	5562	5562	5562	8366
N2	8166	8166	8166	8166	8166	8166	8166	8217
PT10	31.6	31.6	31.6	31.6	31.6	31.6	31.6	32.4
PT4	94.1	94.1	94.1	94.1	94.1	94.1	94.1	97.7
TT10	1074	1074	1074	1074	1074	1074	1074	1087
TT4	1471	1471	1471	1471	1471	1471	1471	1486
PT9	16.7	16.7	16.7	16.7	16.7	16.7	16.7	17.3
PT0	26.5	28.9	29.0	29.2	29.5	29.5	29.6	30.8
TT9	1997	1997	1997	1997	1997	1997	1997	1996
TT0	3560	3000	2750	2500	2250	2000	1722	1082
WAS/WAP	0.0362	0.0339	0.0328	0.0318	0.0307	0.0295	0.0281	0.0247
VENG	1975	1975	1975	1975	1975	1975	1975	1974
VDUCT	2618	2408	2308	2204	2093	1977	1834	1466
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.18	7.27	6.87	6.47	6.06	5.66	5.17	3.77

OCT 2, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C. SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS.

ALT	35000	WAISIZE	640	PT2/PT2P	0.944	WBL3	0.
MO	2.70	PAM	1.3	PT2	2643	WBL4	0.
VA KTS	1580	TAM	410	TT2	511	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	13975	28412	25360	23282	20620	17855	15535	7898
FGT	74878	69314	66772	64184	61527	58756	56438	48860
WAT	491	491	491	491	491	491	491	491
WFT	66161	50221	43638	38075	32750	27527	23590	12255
TSFC	1.967	1.766	1.695	1.655	1.586	1.544	1.518	1.552
BPR	1.83	1.89	1.83	1.87	1.91	1.85	1.87	1.82
WAT2	382	382	382	382	382	382	382	382
N1	5286	5286	5286	5286	5286	5286	5286	5303
N2	8265	8265	8265	8265	8265	8265	8265	8307
PT30	40.5	40.5	40.5	40.5	40.5	40.5	40.5	41.3
PT4	111.6	111.6	111.6	111.6	111.6	111.6	111.6	113.
TT30	1159	1159	1159	1159	1159	1159	1159	1166
TT4	1545	1545	1545	1545	1545	1545	1545	1560
PT9	19.7	19.7	19.7	19.7	19.7	19.7	19.7	20.4
PTD	37.1	37.5	37.7	37.8	38.0	38.1	38.2	39.5
TT9	1995	1995	1995	1995	1995	1995	1995	1995
TTD	3560	3000	2750	2500	2250	2000	1799	1166
WAS/WAP	0.0347	0.0325	0.0315	0.0305	0.0294	0.0283	0.0273	0.0241
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2618	2409	2309	2206	2096	1977	1878	1521
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	7.16	6.96	6.21	5.85	5.49	5.12	4.81	3.60

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ALT	35000	WAISIZE	640	PT2/PT2P	0.944	WBL3	0.
MO	1.60	PAM	0.8	PT2	3.4	WBL4	0.
VA KTS	941	TAM	410	TT2	400	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	9118	8101	7519	7160	6663	6141	5815	5214
FGT	13696	13101	12746	12398	12042	11662	11351	10341
WAT	120	120	120	120	120	120	120	120
WFT	13693	11981	11035	10212	9360	8423	7683	5444
TSFC	2.144	1.858	1.748	1.700	1.615	1.496	1.469	1.212
BPR	1.92	1.95	1.96	1.96	1.96	1.96	1.97	1.96
WAT2	370	370	370	370	370	370	370	370
N1	5502	5502	5502	5502	5502	5502	5502	5535
N2	7990	7990	7990	7990	7990	7990	7990	8037
PT30	40.4	40.4	40.4	40.4	40.4	40.4	40.4	41.7
PT4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	28.1
TT30	775	775	775	775	775	775	775	784
TT4	1197	1197	1197	1197	1197	1197	1197	1212
PT9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.2
PTD	5.7	5.7	5.8	5.9	5.9	5.9	5.9	6.2
TT9	2010	2010	2010	2010	2010	2010	2010	2004
TTD	3560	3000	2750	2500	2250	2000	1799	1166
WAS/WAP	0.0446	0.0418	0.0404	0.0391	0.0377	0.0364	0.0350	0.0282
VENG	1980	1980	1980	1980	1980	1980	1980	1980
VDUCT	2417	2407	2329	2233	2141	2036	1936	1552
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	13.49	11.24	10.44	9.83	9.14	8.44	6.81	4.47

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ALT	35000	WAISIZE	640	PT2/PT2P	0.944	WBL3	0.
MO	1.80	PAM	0.9	PT2	3.8	WBL4	0.
VA KTS	1000	TAM	410	TT2	447	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	9896	8761	8237	7700	7139	6559	5179	3323
FGT	14749	13614	13092	12553	11998	11424	10947	10178
WAT	131	131	131	131	131	131	131	131
WFT	20557	16074	14338	12774	11264	8867	7082	4116
TSFC	2.091	1.933	1.841	1.859	1.877	1.906	1.967	1.779
BPR	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.78
WAT2	552	552	552	552	552	552	552	552
N1	5451	5451	5451	5451	5451	5451	5451	5484
N2	8015	8015	8015	8015	8015	8015	8015	8055
PT30	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.4
PT4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	30.4
TT30	800	800	800	800	800	800	800	808
TT4	1220	1220	1220	1220	1220	1220	1220	1235
PT9	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5
PTD	5.9	6.0	6.1	6.2	6.2	6.3	6.4	6.9
TT9	2009	2009	2009	2009	2009	2009	2009	2008
TTD	3560	3000	2750	2500	2250	2000	1467	909
WAS/WAP	0.0421	0.0414	0.0349	0.0379	0.0366	0.0352	0.0120	0.0277
VENG	1980	1980	1980	1980	1980	1980	1980	1980
VDUCT	2617	2408	2308	2203	2093	1976	1700	1271
AJCOE	5.20	5.20	5.20	5.20	5.21	5.21	5.21	5.21
AJCOD	12.46	10.91	10.23	9.55	8.85	8.16	6.74	4.44

SEP 30, 1964

ALT	65000	WAISIZE	640	PT2/PT2P	0.965	WBL3	0.
MO	1.80	PAM	0.8	PT2	6.5	WBL4	0.
VA KTS	1058	TAM	410	TT2	676	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	10835	9645	9046	8431	7750	7115	5612	3458
FGT	19167	17876	17277	16662	16021	15364	13844	11689
WAT	148	148	148	148	148	148	148	148
WFT	22815	17949	15966	14127	12486	10867	7862	4423
TSFC	2.086	1.859	1.765	1.676	1.600	1.528	1.401	1.279
BPR	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
WAT2	555	555	555	555	555	555	555	555
N1	5537	5537	5537	5537	5537	5537	5537	5560
N2	8033	8033	8033	8033	8033	8033	8033	8074
PT30	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.9
PT4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	33.6
TT30	820	820	820	820	820	820	820	828
TT4	1252	1252	1252	1252	1252	1252	1252	1266
PT9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.1
PTD	5.9	6.1	6.2	6.3	6.4	6.5	6.6	7.3
TT9	2007	2007	2007	2001	2007	2007	2007	2006
TTD	3560	3000	2750	2500	2250	2000	1492	828
WAS/WAP	0.0423	0.0396	0.0384	0.0371	0.0358	0.0344	0.0315	0.0271
VENG	1979	1979	1979	1979	1979	1979	1979	1979
VDUCT	2617	2408	2308	2201	2093	1976	1714	1286
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	14.20	12.56	11.56	10.75	9.98	9.21	7.65	5.02

OCT 2, 1964

ALT	65000	WAISIZE	640	PT2/PT2P	0.923	WBL3	0.
MO	2.00	PAM	0.8	PT2	8.0	WBL4	0.
VA KTS	1176	TAM	410	TT2	717	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	11019	11250	10582	9769	8936	8101	6422	3765
FGT	21845	22193	21476	20631	19810	18969	17266	14908
WAT	176	176	176	176	176	176	176	176
WFT	26521	20726	18397	16265	14225	12325	9119	5020
TSFC	2.037	1.826	1.738	1.656	1.587	1.521	1.420	1.334
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
WAT2	515	515	515	515	515	515	515	515
N1	5481	5481	5481	5481	5481	5481	5481	5509
N2	8059	8059	8059	8059	8059	8059	8059	8109
PT30	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.1
PT4	38.2	38.2	38.2	38.2	38.2	38.2	38.2	39.4
TT30	881	881	881	881	881	881	881	888
TT4	1307	1307	1307	1307	1307	1307	1307	1327
PT9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.1
PTD	8.0	8.2	8.3	8.4	8.5	8.6	8.7	9.4
TT9	2005	2005	2005	2005	2004	2005	2005	2005
TTD	3560	3000	2750	2500	2250	2000	1547	888
WAS/WAP	0.0405	0.0380	0.0368	0.0356	0.0343	0.0330	0.0304	0.0263
VENG	1975	1978	1978	1978	1978	1978	1978	1578
VDUCT	2617	2408	2308	2203	2093	1976	1745	1231
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	12.54	10.98	10.28	9.61	8.95	8.29	7.06	4.75

OCT 7, 1964

ALT	65000	WAISIZE	640	PT2/PT2P	0.904	WBL3	0.
MO	2.20	PAM	0.8	PT2	8.0	WBL4	0.
VA KTS	1294	TAM	410	TT2	805	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	13265	13154	12782	11987	10951	9074	7282	4077
FGT	29290	27179	26207	25207	24176	23099	21307	18102
WAT	207	207	207	207	207	207	207	207
WFT	30435	23628	20658	18324	15992	13760	10485	5654
TSFC	1.996	1.796	1.716	1.639	1.575	1.516	1.440	1.287
BPR	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.92
WAT2	474	474	474	474	474	474	474	474
N1	5614	5614	5614	5614	5614	5614	5614	5667
N2	8063	8063	8063	8063	8063	8063	8063	8123
PT30	12.9	12.9	12.9	12.9	12.9	12.9	12.9	13.3
PT4	44.8	44.8	44.8	44.8	44.8	44.8	44.8	46.5
TT30	950	950	950	950	950	950	950	957
TT4	1367	1367	1367	1367	1367	1367	1367	1387
PT9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.3
PTD	10.9	11.2	11.3	11.4	11.5	11.6	11.7	12.4
TT9	2004	2004	2004	2004	2004	2004	2004	2004
TTD	3560	3000	2750	2500	2250	2000	1608	957
WAS/WAP	0.0388	0.0366	0.0352	0.0340	0.0328	0.0315	0.0296	0.0256
VENG	1978	1978	1978	1978	1978	1978	1978	1978
VDUCT	2618	2408	2308	2203	2093	1977	1779	1381
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	10.76	9.97	9.91	8.35	7.80	7.24	6.36	4.44

OCT 2, 1964

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS DOD DIR 5200.10

ALT	15000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	0.5	PAR	0.8	PT2	12.3	WBL4	0.
VA KTS	1473	TAR	415	TT2	519	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	24741	19555	16158	13.5%	11583	10263	8569	6513
FGT	19686	15.4A	12.62	11.12	10562	10217	29522	24466
WAT	255	255	255	255	255	255	255	255
WFT	36284	28773	24422	21511	19662	18648	12726	8768
TSFC	1.408	1.376	1.375	1.413	1.478	1.579	1.665	1.696
BPR	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88
WAT2	412	412	412	412	412	412	412	412

N1	9361	9321	9303	9281	9321	9321	9321	9361
N2	8119	8119	8119	8119	8119	8119	8119	8165
PT3D	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
PT4	57.3	57.3	57.3	57.3	57.3	57.3	57.3	59.4
TT3D	1047	1040	1039	1040	1039	1039	1039	1036
TT4	1967	1967	1967	1967	1967	1967	1967	1962
PT9	15.7	15.2	14.2	13.2	12.2	11.2	10.2	10.9
PT0	17.5	17.4	17.5	17.5	17.5	17.5	17.5	18.7
TT9	2083	2083	2083	2083	2083	2083	2083	2082
TT0	3060	3060	2750	2500	2250	2000	1747	1736
WAS/WAP	0.0363	0.0350	0.0329	0.0318	0.0307	0.0295	0.0281	0.0267
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2618	2408	2308	2204	2093	1977	1836	1683
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	8.69	7.93	7.11	6.69	6.27	5.84	5.33	3.89

OCT 2, 1964

ALT	25000	WASIZE	640	PT2/PT2P	0.866	WBL3	0.
MO	2.20	PAR	0.8	PT2	5.1	WBL4	0.
VA KTS	1556	TAR	415	TT2	401	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	23941	17622	14632	12423	12752	11015	9355	6372
FGT	16555	12105	10063	8.76	8825	7852	19458	10615
WAT	315	315	315	315	315	315	315	315
WFT	31272	21110	17338	23715	23167	17838	13588	7695
TSFC	1.382	1.333	1.273	1.264	1.536	1.553	1.577	1.660
BPR	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88
WAT2	382	382	382	382	382	382	382	382

N1	9257	9257	9257	9257	9257	9257	9257	9363
N2	8226	8226	8226	8226	8226	8226	8226	8262
PT3D	26.7	26.7	26.7	26.7	26.7	26.7	26.7	25.2
PT4	68.0	68.0	68.0	68.0	68.0	68.0	68.0	70.5
TT3D	1154	1154	1154	1154	1154	1154	1154	1141
TT4	1561	1561	1561	1561	1561	1561	1561	1556
PT9	12.6	12.1	12.6	12.6	12.6	12.6	12.6	12.4
PT0	22.5	22.4	22.4	22.4	22.4	22.4	22.4	24.0
TT9	2101	2101	2101	2101	2101	2101	2101	2059
TT0	3060	3060	2750	2500	2250	2000	1744	1741
WAS/WAP	0.0367	0.0356	0.0345	0.0335	0.0325	0.0294	0.0273	0.0261
VENG	1977	1977	1977	1977	1977	1977	1977	1976
VDUCT	2618	2408	2308	2204	2093	1977	1835	1678
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	7.59	6.87	6.60	6.23	5.86	5.27	4.95	3.70

OCT 2, 1964

ALT	35000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.
MO	2.20	PAR	0.8	PT2	3.6	WBL4	0.
VA KTS	1441	TAR	415	TT2	396	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	9463	7228	6326	5835	5327	4726	3618	2317
FGT	14000	11044	10070	12442	12103	11362	10005	7954
WAT	110	110	110	110	110	110	110	110
WFT	13.26	10.34	12452	11941	2637	2379	2047	1241
TSFC	2.035	2.006	1.935	1.906	1.796	1.689	1.562	1.434
BPR	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.08
WAT2	415	415	415	415	415	415	415	415

N1	9661	9661	9661	9661	9661	9661	9661	9711
N2	7435	7435	7435	7435	7435	7435	7435	7476
PT3D	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.8
PT4	22.5	22.5	22.5	22.5	22.5	22.5	22.5	23.4
TT3D	878	878	878	878	878	878	878	865
TT4	1311	1311	1311	1311	1311	1311	1311	1306
PT9	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.2
PT0	4.5	4.4	4.5	6.6	6.7	6.7	6.7	7.1
TT9	2012	2012	2012	2012	2012	2012	2012	2011
TT0	3060	3060	2750	2500	2250	2000	1732	1721
WAS/WAP	0.0329	0.0329	0.0167	0.0154	0.0141	0.0127	0.0298	0.0259
VENG	1941	1941	1941	1941	1941	1941	1941	1941
VDUCT	2617	2407	2307	2203	2093	1975	1714	1379
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	11.34	10.01	12.11	11.28	10.45	9.64	7.98	5.18

APR 24, 1963

ALT	35000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.
MO	2.20	PAR	0.8	PT2	5.0	WBL4	0.
VA KTS	1302	TAR	415	TT2	415	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	9252	7451	7351	6712	6093	5424	4304	2317
FGT	13978	11677	10675	15558	14819	14150	13031	11042
WAT	128	128	128	128	128	128	128	128
WFT	19017	14714	12487	11350	9846	8474	6357	3341
TSFC	2.055	1.851	1.717	1.667	1.623	1.562	1.486	1.442
BPR	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.09
WAT2	474	474	474	474	474	474	474	474

N1	9393	9393	9393	9393	9393	9393	9393	9436
N2	7957	7957	7957	7957	7957	7957	7957	7922
PT3D	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.8
PT4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	27.5
TT3D	949	949	949	949	949	949	949	935
TT4	1371	1371	1371	1371	1371	1371	1371	1367
PT9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.9
PT0	6.2	6.3	6.4	6.5	6.6	6.6	6.7	7.2
TT9	2010	2010	2010	2010	2010	2010	2010	2009
TT0	3060	3009	2750	2500	2250	2000	1758	1756
WAS/WAP	0.0387	0.0363	0.0351	0.0339	0.0326	0.0314	0.0282	0.0259
VENG	1981	1981	1981	1981	1981	1981	1981	1980
VDUCT	2618	2408	2308	2201	2093	1977	1[illegible]	1359
AJCOE	5.21	5.21	5.21	5.21	5.21	5.	5.	5.21
AJCOD	12.08	10.58	9.93	9.29	8.66	8.03	7.	4.84

OCT 2, 1964

ALT	35000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAR	0.9	PT2	7.6	WBL4	0.
VA KTS	1679	TAR	415	TT2	930	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	11951	9483	8768	7939	7084	6196	5144	2604
FGT	23766	21198	21183	20354	19489	18609	17558	16018
WAT	160	160	160	160	160	160	160	160
WFT	22580	17296	15110	13174	11253	9435	7782	3987
TSFC	1.989	1.805	1.723	1.659	1.604	1.555	1.513	1.531
BPR	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98
WAT2	412	412	412	412	412	412	412	41

N1	9306	9306	9306	9306	9306	9306	9306	8346
N2	8076	8076	8076	8076	8076	8076	8076	8113
PT3D	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.8
PT4	34.3	34.3	34.3	34.3	34.3	34.3	34.3	35.5
TT3D	1071	1071	1071	1071	1071	1071	1071	1078
TT4	1474	1474	1474	1474	1474	1474	1474	1488
PT9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.3
PT0	10.2	10.3	10.4	10.5	10.5	10.6	10.7	11.1
TT9	2008	2008	2008	2008	2008	2008	2008	2007
TT0	3060	3060	2750	2500	2250	2000	1748	1738
WAS/WAP	0.0362	0.0339	0.0328	0.0317	0.0305	0.0294	0.0280	0.0245
VENG	1980	1980	1980	1980	1980	1980	1980	1978
VDUCT	2618	2408	2308	2204	2093	1977	1837	1464
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	9.02	8.00	7.54	7.10	6.65	6.18	5.65	4.12

OCT 2, 1964

ALT	35000	WASIZE	640	PT2/PT2P	0.868	WBL3	0.
MO	2.70	PAR	0.9	PT2	10.1	WBL4	0.
VA KTS	1597	TAR	415	TT2	1013	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	12946	10779	9789	8780	7762	66[illegible]	5749	2782
FGT	28727	26561	25570	24562	23523	22414	21531	18554
WAT	198	198	198	198	198	198	197	198
WFT	25879	19417	16907	14661	12527	10[illegible]	6329	4467
TSFC	1.984	1.801	1.727	1.568	1.618	1.577	1.553	1.617
BPR	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96
WAT2	382	382	382	382	382	382	382	382

N1	9228	9228	9228	9228	9228	9228	9228	9276
N2	8189	8189	8189	8189	8189	8189	8189	8225
PT3D	14.9	14.9	14.9	14.9	14.9	14.9	14.9	15.2
PT4	40.7	40.7	40.7	40.7	40.7	40.7	40.7	42.2
TT3D	1157	1157	1157	1157	1157	1157	1157	1144
TT4	1548	1548	1548	1548	1548	1548	1548	1543
PT9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.5
PT0	13.4	13.6	13.6	13.7	13.8	13.8	13.9	14.4
TT9	2007	2007	2007	2007	2007	2007	2007	2006
TT0	3060	3000	2750	2500	2250	2000	1797	1784
WAS/WAP	0.0346	0.0326	0.0316	0.0306	0.0295	0.0281	0.0272	0.0239
VENG	1980	1980	1980	1980	1980	1980	1980	1978
VDUCT	2618	2408	2309	2204	2094	1977	1877	1520
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	8.01	7.31	6.74	6.35	5.95	5.54	5.20	3.68

OCT 2, 1964

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DOWNGRADED AT 3 YEAR INTERVALS
DOD DIR 5200.10 EXEMPT
[illegible]

ALT	55000	MASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	.50	PAM	1.3	PT2	19.0	WBL4	0.
VA KTS	1434	TAM	390	TT2	875	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LET
FNT	31150	26695	24361	22176	19932	17597	14451	7722
FGT	63310	58655	56122	54336	52093	49758	46612	39853
WAT	428	428	428	428	428	428	428	428
WFT	59740	46030	40526	35343	30667	26161	20720	10939
TSFC	1.918	1.737	1.663	1.594	1.538	1.487	1.436	1.417
BPR	1.80	1.8	1.80	1.80	1.80	1.80	1.80	1.79
WAT2	412	412	412	412	412	412	412	412
N1	5236	5236	5236	5236	5236	5236	5236	6280
N2	8021	8021	8021	8021	8021	8021	8021	8077
PT3D	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.9
PT4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	99.6
TT3D	1028	1028	1025	1028	1028	1028	1028	1036
TT4	1411	1411	1411	1411	1411	1411	1411	1426
PT9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	17.6
PTU	28.9	29.3	29.5	29.6	29.8	29.9	30.1	31.4
TT9	1919	1919	1919	1919	1919	1919	1919	1918
TTU	3560	3000	2750	2500	2250	2000	1749	1036
MAS/MAP	0.0369	0.0346	0.0335	0.0324	0.0312	0.0300	0.0284	0.0249
VENG	1937	1937	1937	1937	1937	1937	1937	1936
VDUCT	2618	2408	2308	2204	2093	1977	1816	1436
AJCDE	9.21	9.21	9.21	9.21	9.21	9.21	9.21	8.21
AJCDD	8.21	7.30	6.89	6.49	6.08	5.66	5.1	3.69

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ALT	55010	MASIZE	660	PT2/PT2P	0.846	WBL3	0.
MO	2.70	PAM	1.8	PT2	26.3	WBL4	0.
VA KTS	1548	TAM	390	TT2	954	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LET
FNT	35476	29790	27193	24557	21832	19006	16044	8151
FGT	76348	70644	68017	65425	62706	59880	56968	44025
WAT	503	503	503	503	503	503	503	503
WFT	68109	51822	45306	39423	33930	28690	23739	12191
TSFC	1.920	1.760	1.666	1.606	1.556	1.510	1.475	1.496
BPR	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.73
WAT2	382	382	382	382	382	382	382	382
N1	5189	5189	5189	5189	5189	5189	5189	5237
N2	8111	8111	8111	8111	8111	8111	8111	8147
PT3D	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.9
PT4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	117.6
TT3D	1109	1109	1106	1109	1109	1109	1109	1116
TT4	1482	1482	1482	1482	1482	1482	1482	1497
PT9	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.7
PTD	37.6	38.0	38.2	38.4	38.5	38.7	38.8	40.1
TT9	1917	1917	1917	1917	1917	1917	1917	1917
TTD	3560	3000	2750	2500	2250	2000	1756	1116
MAS/MAP	0.0353	0.0331	0.0321	0.0310	0.0299	0.0287	0.0276	0.0243
VENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2408	2308	2204	2093	1977	1855	1489
AJCDE	9.21	9.21	9.21	9.21	9.21	9.21	9.21	8.20
AJCDD	7.90	6.60	6.24	5.88	5.52	5.14	4.76	3.93

OCT 2, 1964

ALT	65000	MASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAM	0.8	PT2	12.3	WBL4	0.
VA KTS	1434	TAM	390	TT2	875	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LET
FNT	19317	16417	15088	13726	12326	10870	8876	4662
FGT	39260	36360	35030	33668	32269	30812	28819	24606
WAT	265	265	265	265	265	265	265	265
WFT	37256	28703	25257	22013	19075	16269	12808	6679
TSFC	1.930	1.748	1.674	1.604	1.547	1.496	1.443	1.433
BPR	1.85	1.85	1.85	1.85	1.85	1.89	1.85	1.84
WAT2	412	412	412	412	412	412	412	412
N1	5214	5214	5214	5214	5214	5214	5214	8255
N2	7974	7974	7974	7974	7974	7974	7974	8026
PT3D	19.5	19.5	19.5	19.5	19.5	19.5	19.5	20.0
PT4	58.3	58.3	58.3	58.3	58.3	58.3	58.3	60.5
TT3D	1023	1023	1023	1023	1023	1023	1023	1031
TT4	1407	1407	1407	1407	1407	1407	1407	1422
PT9	10.3	10.1	10.3	10.3	10.3	10.3	10.3	10.7
PTD	17.6	17.7	17.8	17.9	18.0	17.1	18.2	19.0
TT9	1926	1926	1926	1926	1926	1926	1926	1925
TTD	3561	3000	2750	2500	2250	2000	1675	1.31
MAS/MAP	0.0313	0.0346	0.0335	0.0324	0.0313	0.0300	0.0284	0.0248
VENG	1939	1939	1939	1939	1939	1939	1939	1939
VDUCT	2618	2408	2308	2204	2093	1977	1816	1432
AJCDE	9.20	9.20	9.20	9.20	9.20	9.20	9.20	8.21
AJCDD	8.52	7.56	7.14	6.72	6.29	5.86	5.27	3.81

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ALT	65000	MASIZE	640	PT2/PT2P	0.846	WBL3	0.
MO	2.70	PAM	0.8	PT2	16.3	WBL4	0.
VA KTS	1548	TAM	390	TT2	954	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LET
FNT	22026	18483	16863	15215	13519	11756	9906	6934
FGT	47370	43828	42209	40561	38865	37102	35250	30280
WAT	312	312	312	312	312	312	312	312
WFT	42503	32312	28234	24554	21118	17839	14686	9458
TSFC	1.930	1.768	1.674	1.614	1.562	1.517	1.483	1.512
BPR	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.83
WAT2	382	382	382	382	382	382	382	382
N1	5160	5160	5160	5160	5160	5160	5160	6206
N2	8073	8073	8073	8073	8073	8073	8073	8109
PT3D	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.5
PT4	69.2	69.2	69.2	69.2	69.2	69.2	69.2	73.7
TT3D	1104	1104	1104	1104	1104	1104	1104	1113
TT4	1478	1478	1478	1478	1478	1478	1478	1493
PT9	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.6
PTD	22.6	23.1	23.2	23.3	23.4	23.5	23.6	24.4
TT9	1922	1922	1922	1922	1922	1922	1922	1922
TTD	3560	3000	2750	2500	2250	2000	1749	1112
MAS/MAP	0.0356	0.0332	0.0321	0.0310	0.0299	0.0288	0.0276	0.0242
VENG	1938	1938	1938	1938	1938	1938	1938	1938
VDUCT	2618	2408	2308	2204	2093	1977	1852	1488
AJCDE	9.21	9.21	9.21	9.21	9.21	9.21	9.21	8.20
AJCDD	7.64	6.80	6.43	6.06	5.68	5.30	4.89	3.97

OCT 2, 1964

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	75000	MASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAM	0.5	PT2	7.6	WBL4	0.
VA KTS	1443	TAP	395	TT2	886	HPERT	0.

CRUISE	MAX F/H						MIN D/H NOT LET	
FNT	11635	10029	9200	8350	7477	6568	5131	2689
FGT	24243	22437	21608	20758	19884	18976	17739	15097
WAT	166	166	166	166	166	166	166	166
WFT	23206	17811	15044	11605	11757	9992	7833	3967
TSFC	1.961	1.776	1.700	1.629	1.572	1.521	1.469	1.475
BPR	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96
WAT2	412	412	412	412	412	412	412	412
N1	5202	5202	5202	5202	5202	5202	5202	5239
N2	7932	7932	7932	7932	7932	7932	7932	7969
PT30	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.9
PT4	34.9	34.9	34.9	34.9	34.9	34.9	34.9	36.1
TT30	1025	1025	1025	1025	1025	1025	1025	1032
TT4	1414	1414	1414	1414	1414	1414	1414	1428
PT9	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.4
PTD	10.5	10.5	10.6	10.6	10.7	10.8	10.8	11.3
TT9	1929	1929	1929	1929	1929	1929	1929	1928
TTD	3560	3000	2750	2500	2250	2000	1677	1037
WAS/WAP	0.0369	0.0345	0.0334	0.0323	0.0311	0.0299	0.0282	0.0246
VFNG	1942	1942	1942	1942	1942	1942	1942	1941
VDUCT	2618	2408	2308	2204	2093	1977	1815	1433
AJCDE	5.20	5.20	5.20	5..	5.20	5.20	5.20	5.21
AJCDD	9.06	8.02	7.57	7.12	6.66	6.20	5.58	4.06

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ALT	75000	MASIZE	640	PT2/PT2P	0.846	WBL3	0.
MO	2.70	PAM	0.5	PT2	10.1	WBL4	0.
VA KTS	1558	TAP	395	TT2	966	HPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LET	
FNT	13521	11309	10298	9268	8208	7106	5963	2854
FGT	29291	27079	26068	25039	23978	22876	21734	18625
WAT	193	193	193	193	193	193	193	193
WFT	26441	20039	17477	15145	13006	10946	8989	4462
TSFC	1.956	1.772	1.697	1.636	1.585	1.540	1.507	1.556
BPR	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.92
WAT2	382	382	382	382	382	382	382	382
N1	5133	5133	5133	5133	5133	5133	5133	5179
N2	8039	8039	8039	8039	8039	8039	8039	8074
PT30	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.4
PT4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	42.9
TT30	1108	1108	1108	1108	1108	1108	1108	1115
TT4	1485	1485	1485	1485	1485	1485	1485	1500
PT9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.6
PTD	13.6	13.6	13.9	13.9	14.0	14.0	14.1	14.6
TT9	1928	1928	1928	1928	1928	1928	1928	1927
TTD	3560	3000	2750	2500	2250	2000	1752	1115
WAS/WAP	0.0353	0.0330	0.0320	0.0309	0.0298	0.0286	0.0274	0.0240
VFNG	1941	1941	1941	1941	1941	1941	1941	1941
VDUCT	2618	2408	2308	2204	2093	1977	1854	1488
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.05	7.16	6.76	6.37	5.97	5.56	5.14	3.81

OCT 2, 1964

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DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

ALT	55000	WASIZE		640	PT2/PT2P	0.904	WBL3	0.
MO	2.25	PAR		1.3	PT2	12.9	WBL4	0.
VA KTS	1262	TAR		390	TT2	767	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	25914	22403	20795	19137	17429	15645	12434	7010
FGT	44750	45104	45589	41915	40254	39440	35209	29806
WAT	344	344	344	344	344	344	344	344
WFT	53479	39270	34375	30516	26702	23028	17205	9261
TSFC	1.968	1.753	1.672	1.596	1.532	1.472	1.366	1.321
BPR	1.45	1.85	1.85	1.85	1.85	1.85	1.85	1.86
WAT2	478	478	478	478	478	478	478	478
N1	9334	9334	9334	9334	9334	9334	9334	9368
N2	8004	8004	8005	8004	8004	8005	8005	8049
PT30	21.6	21.6	21.6	21.6	21.6	21.6	21.6	22.1
PT4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	76.2
TT30	913	913	913	913	913	913	913	921
TT4	1316	1316	1316	1316	1316	1316	1316	1330
PT9	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.6
PT2	18.9	18.9	19.1	19.3	19.5	19.6	19.8	21.0
TT9	1920	1920	1920	1920	1920	1920	1920	1920
TTD	3560	3000	2750	2500	2250	2000	1676	921
WAS/WAP	0.0309	0.0370	0.0358	0.0346	0.0336	0.0321	0.0298	0.0258
VFAC	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2614	2408	2308	2201	2093	1977	1761	1355
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	10.43	9.20	8.65	8.11	7.58	7.04	6.09	4.29

SEP 30, 1964

ALT	55000	WASIZE		640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAR		1.3	PT2	16.8	WBL4	0.
VA KTS	1434	TAR		390	TT2	875	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	32693	27777	25520	23707	20830	18356	14916	7726
FGT	46415	46498	46242	46024	45651	52075	44618	41446
WAT	448	448	448	448	448	448	448	448
WFT	63365	48709	42824	37786	32967	27470	21692	11012
TSFC	1.938	1.754	1.678	1.607	1.49	1.497	1.441	1.426
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.89
WAT2	432	432	432	432	432	432	432	432
N1	9317	9317	9317	9317	9317	9317	9317	9352
N2	8022	8022	8022	8022	8022	8022	8022	8073
PT30	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.9
PT4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	100.4
TT30	1018	1018	1018	1018	1018	1018	1018	1026
TT4	1415	1415	1415	1415	1415	1415	1415	1439
PT9	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.7
PT2	27.3	27.8	28.0	28.2	28.4	28.5	28.8	30.1
TT9	1918	1918	1918	1918	1918	1918	1918	1917
TTD	3560	3000	2750	2500	2250	2000	1671	1026
WAS/WAP	0.0370	0.0367	0.0356	0.0345	0.0331	0.0300	0.0285	0.0247
VFAC	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2408	2308	2204	2093	1977	1812	1428
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	9.28	8.22	7.76	7.29	6.82	6.35	5.70	4.09

SEP 30, 1964

ALT	55000	WASIZE		640	PT2/PT2P	0.846	WBL3	0.
MO	2.75	PAR		1.3	PT2	26.3	WBL4	0.
VA KTS	1548	TAR		390	TT2	954	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	37702	31614	28828	25991	23068	20030	16754	8143
FGT	40956	74871	72085	69247	66325	63287	60011	51400
WAT	533	533	533	533	533	533	533	533
WFT	73124	52472	46416	42046	36099	30415	24378	12784
TSFC	1.960	1.755	1.679	1.618	1.565	1.518	1.481	1.508
BPR	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.91
WAT2	404	404	404	404	404	404	404	404
N1	9287	9287	9287	9287	9287	9287	9287	9324
N2	8116	8116	8116	8116	8116	8116	8116	8152
PT30	39.7	39.7	39.7	39.7	39.7	39.7	39.7	40.6
PT4	114.9	114.9	114.9	114.9	114.9	114.9	114.9	118.9
TT30	1097	1097	1097	1097	1097	1097	1097	1103
TT4	1487	1487	1487	1487	1487	1487	1487	1501
PT9	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.9
PT2	35.9	36.0	36.2	36.4	36.6	36.8	37.0	38.4
TT9	1916	1916	1916	1916	1916	1916	1916	1915
TTD	3560	3000	2750	2500	2250	2000	1742	1104
WAS/WAP	0.0355	0.0352	0.0341	0.0331	0.0319	0.0288	0.0275	0.0241
VFAC	1935	1935	1935	1935	1935	1935	1935	1939
VDUCT	2614	2408	2308	2204	2093	1977	1849	1481
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	8.90	7.54	7.12	6.70	6.28	5.85	5.39	3.97

SEP 30, 1964

ALT	65000	WASIZE		640	PT2/PT2P	0.904	WBL3	0.
MO	2.20	PAR		0.8	PT2	8.0	WBL4	0.
VA KTS	1262	TAR		390	TT2	767	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	16001	13822	12823	11723	10731	9621	7584	4209
FGT	30136	27957	26958	25928	24966	23755	21719	18344
WAT	214	214	214	214	214	214	214	214
WFT	319524	244497	216781	190119	164316	143121	106191	54384
TSFC	1.970	1.772	1.691	1.613	1.568	1.488	1.400	1.340
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90
WAT2	478	478	478	478	478	479	478	478
N1	9317	9317	9317	9317	9317	9317	9317	9369
N2	7937	7937	7937	7937	7937	7937	7937	7993
PT30	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.4
PT4	45.7	45.7	45.7	45.7	45.7	45.7	45.7	47.5
TT30	908	908	908	908	908	908	908	919
TT4	1312	1312	1312	1312	1312	1312	1312	1326
PT9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.5
PT2	11.0	11.3	11.4	11.5	11.6	11.7	11.9	12.6
TT9	1925	1925	1925	1925	1925	1925	1925	1925
TTD	3560	3000	2750	2500	2250	2000	1671	919
WAS/WAP	0.0346	0.0371	0.0359	0.0347	0.0334	0.0321	0.0297	0.0257
VFAC	1939	1939	1939	1939	1939	1939	1939	1939
VDUCT	2614	2408	2308	2201	2093	1977	1758	1351
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	11.00	9.69	9.10	8.52	7.94	7.38	6.17	4.41

SEP 30, 1964

ALT	65000	WASIZE		640	PT2/PT2P	0.870	WBL3	0.
MO	2.40	PAR		0.8	PT2	12.5	WBL4	0.
VA KTS	1434	TAR		390	TT2	875	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	20251	17192	15790	14350	12870	11328	9161	4663
FGT	41162	39104	36700	35260	33780	32238	30071	25574
WAT	278	278	278	278	278	278	278	278
WFT	39508	30566	26648	23707	20868	17869	13789	6729
TSFC	1.951	1.765	1.689	1.617	1.559	1.507	1.451	1.443
BPR	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.94
WAT2	432	432	432	432	432	432	432	432
N1	9303	9303	9303	9303	9303	9303	9303	9335
N2	7980	7980	7980	7980	7980	7980	7980	8028
PT30	18.9	18.9	18.9	18.9	18.9	18.9	18.9	19.4
PT4	59.0	59.0	59.0	59.0	59.0	59.0	59.0	61.2
TT30	1014	1014	1014	1014	1014	1014	1014	1021
TT4	1412	1412	1412	1412	1412	1412	1412	1426
PT9	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.8
PT2	16.2	16.8	16.9	17.1	17.2	17.3	17.4	18.2
TT9	1922	1922	1922	1922	1922	1922	1922	1922
TTD	3560	3000	2750	2500	2250	2000	1667	1021
WAS/WAP	0.0371	0.0367	0.0356	0.0345	0.0333	0.0300	0.0283	0.0246
VFAC	1938	1938	1938	1938	1938	1938	1938	1938
VDUCT	2618	2408	2308	2201	2093	1977	1810	1425
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.62	8.56	8.02	7.93	7.09	6.55	5.87	4.22

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ALT	65000	WASIZE		640	PT2/PT2P	0.846	WBL3	0.
MO	2.70	PAR		0.8	PT2	16.5	WBL4	0.
VA KTS	1548	TAR		390	TT2	954	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	23378	19600	17862	16095	14275	12381	10307	4933
FGT	50201	46423	44684	42918	41098	39205	37131	31756
WAT	330	330	330	330	330	330	330	330
WFT	49442	36621	30156	26179	22456	18907	15357	7825
TSFC	1.945	1.766	1.688	1.626	1.573	1.527	1.490	1.525
BPR	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96
WAT2	404	404	404	404	404	404	404	404
N1	9265	9265	9265	9265	9265	9265	9265	9307
N2	8080	8080	8082	8080	8080	8080	8080	8115
PT30	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.7
PT4	70.1	70.1	70.1	70.1	70.1	70.1	70.1	72.8
TT30	1093	1093	1093	1093	1093	1093	1093	1099
TT4	1484	1484	1484	1484	1484	1484	1484	1498
PT9	12.4	12.4	12.4	12.6	12.4	12.4	12.4	12.8
PT2	21.3	21.8	22.0	22.1	22.2	22.3	22.5	23.4
TT9	1921	1921	1921	1921	1921	1921	1921	1920
TTD	3560	3000	2750	2500	2250	2000	1738	1099
WAS/WAP	0.0355	0.0353	0.0342	0.0331	0.0320	0.0288	0.0275	0.0240
VFAC	1938	1938	1938	1938	1938	1938	1938	1937
VDUCT	2618	2408	2308	2201	2093	1977	1867	1478
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	8.77	7.78	7.34	6.91	6.49	6.02	5.54	4.07

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	75000	WASIZE	440	PT2/PT2P	0.904	WBL3	0.
[illegible]	2.20	FAN	0.5	PT2	5.0	WBL4	0.
[illegible]	1272	TAM	395	TT2	776	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
[illegible]	9702	8360	7744	7107	6449	2761	4492	2407
FGT	19476	17154	16534	15751	14241	14555	13286	11196
WAT	132	132	132	132	132	132	132	132
WFT	19687	15248	13449	11780	10272	8819	6481	3338
TSFC	2.029	1.824	1.739	1.659	1.593	1.531	1.443	1.389
BPR	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.02
WAT2	478	478	478	478	478	478	478	478
[illegible]	5302	5302	5302	5302	5302	5302	5302	5362
N2	7836	7836	7836	7836	7836	7836	7836	7902
PT30	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.9
PT4	27.1	27.1	27.1	27.1	27.1	27.1	27.1	28.2
[illegible]	907	907	907	907	907	907	907	915
TT4	1317	1317	1317	1317	1317	1317	1317	1332
[illegible]	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0
[illegible]	8.2	8.4	8.5	8.4	8.6	6.7	6.8	7.3
TT9	1941	1911	1931	1931	1931	1931	1931	1930
TTD	3590	3000	2750	2500	2250	2000	1670	915
[illegible]	0.0389	0.0369	0.0358	0.0345	0.0333	0.0319	0.0295	0.0246
[illegible]	1942	1942	1942	1942	1942	1942	1942	1942
VDUCT	2615	2408	2308	2204	2093	1977	1758	1351
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
[illegible]	12.35	10.80	10.12	9.46	8.81	8.17	7.05	4.79

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ALT	75000	WASIZE	440	PT2/PT2P	0.870	WBL3	0.
[illegible]	2.50	FAN	0.5	PT2	7.6	WBL4	0.
[illegible]	1493	TAM	395	TT2	880	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
[illegible]	12388	10488	9619	8719	7776	6835	5496	2685
FGT	25144	23478	22625	21729	20807	19846	18505	15498
WAT	172	172	172	172	172	172	172	172
WFT	24986	18829	15514	14141	12371	10487	8129	4260
TSFC	1.985	1.795	1.718	1.645	1.587	1.536	1.498	1.490
BPR	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.05
WAT2	432	432	432	432	432	432	432	432
[illegible]	5285	5285	5285	5285	5285	5285	5285	5326
N2	7937	7937	7937	7937	7937	7937	7937	7974
PT30	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.6
PT4	35.3	35.3	35.3	35.3	35.3	35.3	35.3	36.6
[illegible]	1017	1017	1017	1017	1017	1017	1017	1023
TT4	1418	1418	1418	1418	1418	1418	1418	1433
[illegible]	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.4
[illegible]	9.7	9.9	10.0	10.1	10.1	10.2	10.2	10.8
TT9	1928	1929	1929	1929	1926	1928	1928	1927
TTD	3560	3000	2750	2500	2250	2000	1670	1023
[illegible]	0.0370	0.0346	0.0335	0.0323	0.0311	0.0299	0.0281	0.0244
[illegible]	1941	1941	1941	1941	1941	1941	1941	1941
VDUCT	2618	2408	2306	2203	2093	1977	1811	1427
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
[illegible]	10.28	9.07	8.44	8.02	7.49	96.96	6.24	4.48

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ALT	75000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.
[illegible]	2.70	FAN	0.5	PT2	10.1	WBL4	0.
[illegible]	1558	TAM	395	TT2	986	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
[illegible]	14316	11970	10890	9788	8653	7473	6200	2849
FGT	31019	27360	27580	26478	25341	24165	22889	19338
WAT	204	204	204	204	204	204	204	204
WFT	28358	21419	18652	16155	13823	11597	9403	4486
TSFC	1.978	1.789	1.713	1.650	1.597	1.552	1.517	1.475
BPR	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.05
WAT2	404	404	404	404	404	404	404	404
[illegible]	5246	5246	5246	5246	5246	5246	5246	5289
N2	8048	8048	8048	8048	8048	8048	8048	8081
PT30	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.9
[illegible]	42.1	42.1	42.1	42.1	42.1	42.1	42.1	43.6
[illegible]	1097	1097	1097	1097	1097	1097	1097	1104
TT4	1491	1491	1491	1491	1491	1491	1491	1506
[illegible]	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.7
[illegible]	12.8	13.2	13.1	13.2	13.2	13.3	13.4	14.0
TT9	1926	1926	1926	1926	1926	1926	1926	1925
TTD	3560	3000	2750	2500	2250	2000	1743	1104
[illegible]	0.0354	0.0331	0.0321	0.0309	0.0298	0.0286	0.0273	0.0238
[illegible]	1940	1940	1940	1940	1940	1940	1940	1940
VDUCT	2618	2408	2308	2206	2095	1977	1849	1481
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
[illegible]	9.26	8.20	7.73	7.23	6.81	6.34	5.83	4.29

SEP 30, 1964

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DOWNGRADED AT 3 YEAR INTERVALS -
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

ALT	55000	WASIZE		440	PT2/PT2P	0.906	WBL3	0.
MN	2.20	FAN		1.5	PT2	12.9	WBL4	0.
VA KTS	1262	TAM		390	TT2	767	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	25459	22013	20436	18813	17143	15397	12271	6999
FGT	679102	443540	422773	411569	396298	377716	346068	293346
WAT	417	417	417	417	417	417	417	417
WFT	69225	38356	35968	34848	26121	22351	16946	9223
TSFC	1.934	1.762	1.662	1.587	1.524	1.465	1.381	1.318
BPR	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.80
WAT2	468	468	468	468	468	468	468	468
N1	9298	9298	9298	9298	9298	9298	9298	9334
N2	8006	8007	8006	8006	8006	8006	8006	8056
PT3D	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.7
PT4	75.0	75.0	75.0	75.0	75.0	75.0	75.0	77.7
T3D	918	918	918	918	918	918	918	925
TT4	1314	1314	1314	1314	1314	1314	1314	1328
PT9	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.8
FT8	19.2	19.6	19.7	19.9	20.0	20.2	20.4	21.4
T19	1420	1420	1420	1420	1420	1420	1420	1420
TTD	3560	3000	2750	2500	2250	2000	1580	929
WAS/WAP	0.0364	0.0368	0.0356	0.0346	0.0334	0.0321	0.0298	0.0256
VTOT	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2614	2458	2308	2203	2083	1977	1763	1358
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDO	8.99	8.66	8.14	7.64	7.14	6.65	5.77	4.03

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ALT	55000	WASIZE		440	PT2/PT2P	0.870	WBL3	0.
MN	2.50	FAN		1.5	PT2	19.0	WBL4	0.
VA KTS	1434	TAM		390	TT2	879	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	29915	25675	23496	21358	19221	16999	14080	7729
FGT	609434	484.7	464.3	427.1	401.9	378.3	347.0	283.9
WAT	412	412	412	412	412	412	412	412
WFT	58960	43980	38767	33860	29614	25169	20277	10809
TSFC	1.904	1.727	1.654	1.585	1.530	1.481	1.430	1.411
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.69
WAT2	397	397	397	397	397	397	397	397
N1	9188	9188	9188	9188	9188	9188	9188	9241
N2	8019	8019	8019	8019	8019	8019	8019	8079
PT3D	32.8	32.8	32.8	32.8	32.8	32.8	32.8	33.6
PT4	95.0	95.0	95.0	95.0	95.0	95.0	95.0	98.0
T3D	1036	1036	1036	1036	1036	1036	1036	1049
TT4	1408	1408	1408	1408	1408	1408	1408	1424
PT9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	17.5
FT8	30.0	30.4	30.5	30.7	30.8	30.[illegible]	[illegible]	[illegible]
T19	1520	1520	1520	1520	1520	1520	1520	1549
TTD	3560	3000	2750	2500	2250	2000	1688	1045
WAS/WAP	0.0368	0.0365	0.0356	0.0345	0.0332	0.0317	0.0300	0.0265
VTOT	1937	1937	1937	1937	1937	1937	1937	1936
VDUCT	2618	2459	2308	2204	2093	1977	1820	1447
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDO	9.49	8.69	8.31	7.96	7.59	7.19	6.70	5.40

SEP 30, 1964

ALT	55000	WASIZE		440	PT2/PT2P	0.846	WBL3	0.
MN	2.75	FAN		1.5	PT2	26.3	WBL4	0.
VA KTS	1548	TAM		390	TT2	954	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	32482	27366	25032	22657	20216	17680	15760	8232
FGT	701.4	65758	62924	60558	54108	55573	53152	46124
WAT	466	466	466	466	466	466	466	466
WFT	61950	47077	41270	38048	31251	26505	22409	12178
TSFC	1.895	1.720	1.649	1.591	1.542	1.499	1.469	1.480
BPR	1.60	1.60	1.62	1.60	1.60	1.60	1.60	1.58
WAT2	354	354	354	354	354	354	354	354
N1	9166	9166	9166	9166	9166	9166	9166	9236
N2	8106	8106	8106	8106	8106	8106	8106	8143
PT3D	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.9
PT4	113.0	113.0	113.0	113.0	113.0	113.0	113.0	117.4
T3D	1128	1128	1128	1128	1128	1128	1128	1136
TT4	1481	1481	1481	1481	1481	1481	1481	1497
PT9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	20.7
FT8	40.6	40.7	40.8	40.9	41.0	41.1	41.2	42.5
T19	1918	1918	1918	1918	1918	1918	1918	1917
TTD	3560	3000	2750	2500	2250	2000	1771	1116
WAS/WAP	0.0350	0.0329	0.0319	0.0309	0.0298	0.0287	0.0277	0.0244
VTOT	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2458	2308	2204	2094	1977	1864	1502
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDO	6.14	5.48	5.20	4.81	4.61	4.48	4.01	2.98

SEP 30, 1964

ALT	65000	WASIZE		440	PT2/PT2P	0.906	WBL3	0.
MN	2.20	FAN		0.8	PT2	8.0	WBL4	0.
VA KTS	1262	TAM		390	TT2	767	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	15795	13594	12613	11603	10563	9476	7500	4207
FGT	24944	27444	26464	25454	24414	23327	21151	18658
WAT	209	209	209	209	209	209	209	209
WFT	30719	23925	21184	18598	16260	14019	10466	5819
TSFC	1.955	1.760	1.679	1.609	1.539	1.479	1.396	1.335
BPR	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.84
WAT2	468	468	468	468	468	468	468	468
N1	9277	9277	9277	9277	9277	9277	9277	9311
N2	7934	7936	7936	7936	7934	7936	7936	7991
PT3D	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.7
PT4	45.5	45.5	45.5	45.5	45.5	45.5	45.5	47.2
T3D	912	912	912	912	912	912	912	919
TT4	1310	1310	1310	1310	1310	1310	1310	1324
PT9	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.4
FT8	11.4	11.7	11.8	11.9	12.0	12.1	12.2	12.9
T19	1926	1926	1926	1926	1926	1926	1926	1924
TTD	3560	3000	2750	2500	2250	2000	1615	939
WAS/WAP	0.0359	0.0370	0.0358	0.0346	0.0334	0.0321	0.0298	0.0258
VTOT	1940	1940	1940	1940	1940	1940	1940	1940
VDUCT	2618	2464	2308	2205	2091	1977	1760	1354
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	10.32	9.11	8.57	8.04	7.51	6.97	6.03	4.19

SEP 30, 1964

ALT	65000	WASIZE		440	PT2/PT2P	0.870	WBL3	0.
MN	2.50	FAN		0.8	PT2	12.3	WBL4	0.
VA KTS	1434	TAM		390	TT2	879	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	18564	15796	14529	13225	11890	10502	8647	4858
FGT	17773	34501	33151	32432	31097	29769	27854	23865
WAT	255	255	255	255	255	255	255	255
WFT	35577	27440	24173	21097	18511	15849	12444	6867
TSFC	1.916	1.737	1.664	1.595	1.540	1.490	1.439	1.427
BPR	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.74
WAT2	397	397	397	397	397	397	397	397
N1	9154	9154	9154	9154	9154	9154	9154	9208
N2	7971	7971	7971	7971	7971	7971	7971	8021
PT3D	19.9	19.9	19.9	19.9	19.9	19.9	19.9	20.6
PT4	57.8	57.8	57.8	57.8	57.8	57.8	57.8	60.1
T3D	1031	1031	1031	1031	1031	1031	1031	1039
TT4	1404	1404	1404	1404	1404	1404	1404	1419
PT9	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.7
FT8	15.1	15.5	15.5	15.6	15.7	15.8	15.9	16.8
T19	1625	1625	1625	1625	1625	1625	1625	1622
TTD	3560	3000	2750	2500	2250	2000	1683	1019
WAS/WAP	0.0369	0.0346	0.0335	0.0324	0.0312	0.0300	0.0285	0.0249
VTOT	1940	1940	1940	1940	1940	1940	1940	1939
VDUCT	2618	2458	2308	2204	2091	1977	1818	1438
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDO	7.77	6.91	6.53	6.14	5.77	5.37	4.86	3.51

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ALT	65000	WASIZE		440	PT2/PT2P	0.846	WBL3	0.
MN	2.75	FAN		0.8	PT2	16.3	WBL4	0.
VA KTS	1548	TAM		390	TT2	954	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	20199	16997	15537	14043	12526	10940	9388	6475
FGT	43692	40644	39034	37550	36023	34437	32865	28477
WAT	289	289	289	289	289	289	289	289
WFT	38659	29398	25794	22473	19618	16887	13858	7437
TSFC	1.905	1.729	1.658	1.589	1.530	1.477	1.426	1.399
BPR	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.63
WAT2	354	354	354	354	354	354	354	354
N1	9117	9117	9117	9117	9117	9117	9117	9183
N2	8068	8068	8068	8068	8068	8068	8068	8104
PT3D	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.7
PT4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	71.4
T3D	1122	1122	1122	1122	1122	1122	1122	1130
TT4	1476	1476	1476	1476	1476	1476	1476	1492
PT9	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.6
FT8	20.3	20.7	20.8	20.9	21.0	21.0	21.1	21.9
T19	1625	1625	1625	1625	1625	1625	1625	1622
TTD	3560	3000	2750	2500	2250	2000	1766	1140
WAS/WAP	0.0351	0.0338	0.0328	0.0318	0.0308	0.0298	0.0277	0.0245
VTOT	1939	1939	1939	1939	1939	1939	1939	1938
VDUCT	2618	2458	2308	2204	2094	1977	1861	1468
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDO	6.98	6.69	6.57	6.07	4.78	4.44	4.13	3.09

SEP 30, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, USC, SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	25000	WASIZE	640	PT2/PT2P	0.904	WBL4	0.
MN	2.70	PAR	0.5	PT2	5.0	WBL4	0.
VA KTS	1270	TAM	395	TT2	776	HPEXT	0.

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	9969	8745	7639	7012	6366	5689	4495
FGT	18146	16461	16256	15629	14961	14387	13972
WAT	129	123	129	125	129	129	129
WF	19213	14699	13164	11951	10055	8638	6781
TSFC	1.008	1.107	1.123	1.164	1.179	1.318	1.492
ARA	2.00	2.00	2.00	2.00	2.00	2.00	2.00
WAT2	668	668	668	668	668	668	668
N1	9262	9265	9265	9265	9265	9265	9265
N2	7935	7935	7935	7935	7935	7935	7935
PT30	7.8	7.8	7.8	7.8	7.8	7.8	7.8
PT6	26.9	26.9	26.9	26.9	26.9	26.9	26.9
TT30	911	911	911	911	911	911	911
T14	1315	1315	1315	1315	1315	1315	1315
PT9	4.8	4.8	4.8	4.8	4.8	4.8	4.8
PT8	6.9	6.7	6.8	6.8	6.9	7.0	7.0
T10	1932	1932	1932	1932	1932	1932	1932
TTD	3360	3000	2750	2500	2250	2000	1674
WAS/WAP	0.0346	0.0340	0.0337	0.0344	0.0351	0.0359	0.0359
VBW	1963	1963	1963	1963	1963	1963	1963
VDUCT	2618	2408	2308	2203	2093	1977	1759
AJCOE	5.20	5.20	5.20	5.20	5.27	5.20	5.20
AJCOO	11.44	10.06	9.44	8.84	8.24	7.65	6.60

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ALT	25000	WASIZE	640	PT2/PT2P	0.870	WBL4	0.
MN	2.50	PAR	0.5	PT2	7.6	WBL4	0.
VA KTS	1443	TAM	395	TT2	886	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	11390	9660	8866	8056	7219	6350	5394
FGT	23349	21018	20617	20054	19169	18401	17195
WAT	158	158	158	158	158	158	158
WF	22128	17043	14684	13046	11295	9417	7622
TSFC	1.066	1.265	1.490	1.620	1.584	1.914	1.464
ARA	1.87	1.87	1.87	1.87	1.87	1.87	1.87
WAT2	397	397	397	397	397	397	397
N1	9128	9128	9128	9128	9128	9128	9128
N2	7926	7926	7926	7926	7926	7926	7926
PT30	11.9	11.9	11.9	11.9	11.9	11.9	11.9
PT6	34.5	34.5	34.5	34.5	34.5	34.5	34.5
TT30	1033	1033	1033	1033	1033	1033	1033
T14	1410	1410	1410	1410	1410	1410	1410
PT9	6.1	6.1	6.1	6.1	6.1	6.1	6.1
PT8	10.7	10.9	11.0	11.0	11.1	11.1	11.2
TT9	1941	1941	1941	1931	1931	1931	1941
TTD	3360	3000	2750	2500	2250	2000	1666
WAS/WAP	0.0368	0.0344	0.0334	0.0332	0.0311	0.0299	0.0281
VBW	1942	1942	1942	1942	1942	1942	1942
VDUCT	2618	2408	2308	2204	2093	1977	1818
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCOO	8.26	7.34	6.93	6.53	6.12	5.70	5.14

SEP 30, 1964

ALT	25000	WASIZE	640	PT2/PT2P	0.846	WBL4	0.
MN	2.70	PAR	0.5	PT2	18.1	WBL4	0.
VA KTS	1558	TAM	395	TT2	966	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	10625	10419	9503	8571	7612	6616	5648
FGT	27055	24059	24133	23141	22215	21316	20364
WAT	179	179	179	179	179	179	179
WF	21998	18767	15973	13902	11968	10124	8476
TSFC	1.031	1.253	1.481	1.622	1.572	1.530	1.500
ARA	1.75	1.75	1.75	1.75	1.75	1.75	1.75
WAT2	556	556	556	556	556	556	556
N1	9010	9010	9010	9010	9010	9010	9010
N2	8052	8052	8052	8052	8052	8052	8052
PT30	15.7	15.7	15.7	15.7	15.7	15.7	15.7
PT6	41.0	41.0	41.0	41.0	41.0	41.0	41.0
TT30	1124	1124	1124	1124	1124	1124	1124
T14	1481	1481	1481	1481	1481	1481	1481
PT9	7.2	7.2	7.2	7.2	7.2	7.2	7.2
PT8	14.8	14.7	14.8	14.8	14.9	14.9	15.0
TT9	1930	1930	1930	1910	1930	1930	1930
TTD	3360	3000	2750	2500	2250	2000	1767
WAS/WAP	0.0351	0.0329	0.0319	0.0308	0.0297	0.0286	0.0275
VBW	1962	1962	1962	1962	1962	1962	1962
VDUCT	2618	2408	2308	2204	2094	1977	1862
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOO	8.73	8.01	8.69	9.36	9.04	4.70	4.37

SEP 30, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOD (GRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS)
DOD DIR 5200.10

ALT	55000	WASIZE		640	PT2/PT2P	0.844	WBL3	0.
MO	2.70	PAN		1.3	PT2	26.9	WBL4	0.
VA KTS	1588	TAN		410	TT2	1001	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	13451	27950	25289	22692	19999	17210	14744	6976
FGT	74354	68753	66192	63585	60901	58113	55646	47879
WAT	491	491	491	491	491	491	491	491
WFT	65930	49786	43315	7474	32025	26825	22577	11053
TSFC	1.971	1.788	1.713	.652	1.601	1.559	1.531	1.584
BPR	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89
WAT2	382	382	382	382	382	382	382	382
N1	5209	5209	5209	5209	5209	5209	5209	8253
N2	8164	8164	8164	8164	8164	8164	8164	8198
PT3D	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.9
PT4	107.0	107.0	107.0	107.0	107.0	107.0	107.0	110.8
TT3D	1147	1147	1147	1147	1147	1147	1147	1154
TT4	1527	1527	1527	1527	1527	1527	1527	1562
PT9	18.8	18.8	18.8	18.8	18.8	18.8	18.8	19.4
PTD	35.5	36.0	36.2	36.3	36.5	36.6	36.8	38.9
TT9	1917	1917	1917	1917	1917	1917	1917	1917
TTD	3560	3000	2750	2500	2250	2000	1750	1154
WAS/WAP	0.0346	0.0324	0.0314	0.0303	0.0292	0.0281	0.0271	0.0238
WENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2408	2304	2204	2094	1977	1872	1513
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	7.78	6.93	6.59	6.17	5.79	5.40	5.05	3.77

OCT 2, 1964

ALT	65000	WASIZE		640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAN		0.8	PT2	12.3	WBL4	0.
VA KTS	1470	TAN		410	TT2	919	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	18211	15363	14051	12715	11338	9904	8136	4015
FGT	38165	35316	34004	32669	31291	29838	28089	23966
WAT	259	259	259	259	259	259	259	259
WFT	36164	27667	24123	21004	18087	15302	12191	6070
TSFC	1.984	1.800	1.717	1.652	1.595	1.545	1.498	1.512
BPR	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95
WAT2	412	412	412	412	412	412	412	412
N1	5260	5260	5260	5260	5260	5260	5260	8299
N2	8016	8016	8016	8016	8016	8016	8016	8055
PT3D	18.5	18.5	18.5	18.5	18.5	18.5	18.5	19.0
PT4	54.9	54.9	54.9	54.9	54.9	54.9	54.9	56.9
TT3D	1058	1058	1058	1058	1058	1058	1058	1064
TT4	1449	1449	1449	1449	1449	1449	1449	1484
PT9	9.7	9.7	9.7	9.7	9.7	9.7	9.7	10.0
PTD	16.6	16.6	16.8	16.9	17.0	17.0	17.2	17.9
TT9	1924	1924	1924	1924	1924	1924	1924	1923
TTD	3560	3000	2750	2500	2250	2000	1707	1065
WAS/WAP	0.0362	0.0339	0.0328	0.0317	0.0305	0.0293	0.0278	0.0249
WENG	1939	1939	1939	1939	1939	1939	1939	1938
VDUCT	2618	2408	2308	2204	2093	1977	1830	1455
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.02	8.00	7.56	7.10	6.64	6.18	5.62	4.09

OCT 2, 1964

ALT	55000	WASIZE		640	PT2/PT2P	0.870	WBL3	0.
MO	2.70	PAN		1.3	PT2	26.9	WBL4	0.
VA KTS	1588	TAN		410	TT2	1001	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	29380	24805	22697	20556	18344	16064	13256	6656
FGT	61557	56982	54875	52732	50522	48222	45431	38833
WAT	417	417	417	417	417	417	417	417
WFT	57942	46336	38705	33721	29061	24621	19717	9933
TSFC	1.972	1.787	1.705	1.641	1.584	1.534	1.488	1.492
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90
WAT2	412	412	412	412	412	412	412	412
N1	5281	5281	5281	5281	5281	5281	5281	8318
N2	8060	8060	8060	8060	8060	8060	8060	8097
PT3D	30.5	30.5	30.5	30.5	30.5	[illegible]	30.5	31.1
PT4	[illegible]	90.2	90.2	[illegible]	[illegible]	90.2	[illegible]	[illegible]
TT3D	1063	1063	1063	1063	1063	1063	1063	1069
TT4	1453	1453	1453	1453	1453	1453	1453	1488
PT9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	16.5
PTD	27.1	27.5	27.7	27.9	28.0	28.2	28.4	29.5
TT9	1918	1918	1918	1918	1918	1918	1918	1918
TTD	3560	3000	2750	2500	2250	2000	1711	1069
WAS/WAP	0.0361	0.0348	0.0328	0.0316	0.0305	0.0293	0.0279	0.0244
WENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2408	2308	2204	2093	1977	1833	1458
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.70	7.72	7.29	6.85	6.42	5.98	5.44	3.98

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ALT	65000	WASIZE		640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAN		0.8	PT2	12.3	WBL4	0.
VA KTS	1470	TAN		410	TT2	919	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	20764	17273	15677	14051	12378	10639	9069	4216
FGT	46127	42637	41040	39415	37741	36002	34432	29580
WAT	305	305	305	305	305	305	305	305
WFT	41140	31040	26993	23340	19931	16679	13970	6766
TSFC	1.981	1.797	1.722	1.661	1.610	1.568	1.540	1.604
BPR	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.94
WAT2	382	382	382	382	382	387	382	382
N1	5181	5181	5181	5181	5181	5181	5181	8228
N2	8127	8127	8127	8127	8127	8127	8127	8160
PT3D	23.9	23.9	23.9	23.9	23.9	23.9	23.9	24.6
PT4	65.2	65.2	65.2	65.2	65.2	65.2	65.2	67.6
TT3D	1143	1143	1143	1143	1143	1143	1143	1149
TT4	1523	1523	1523	1523	1523	1523	1523	1558
PT9	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.9
PTD	21.6	21.8	22.0	22.1	22.2	22.3	22.3	23.2
TT9	1923	1923	1923	1923	1923	1923	1923	1923
TTD	3560	3000	2750	2500	2250	2000	1784	1149
WAS/WAP	0.0346	0.0326	0.0314	0.0303	0.0292	0.0281	0.0270	0.0237
WENG	1939	1939	1939	1939	1939	1939	1939	1938
VDUCT	2618	2408	2309	2204	2094	1977	1870	1510
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.03	7.14	6.75	6.36	5.96	5.55	5.19	3.87

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	35000	WASIZE	640	PT2/PT2P	0.904	WBL3		0.
MO	2.40	PAM	0.5	PT2	515	WBL4		0.
VA KTS	1362	TAM	415	TT2	815	MPERT		0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	9090	7769	7112	6657	5861	5193	4622	2038
FGT	17726	16435	15838	15227	14586	13919	12748	10764
WAT	128	128	128	128	128	128	128	128
WFT	19263	14007	13021	11362	9877	771	6140	3227
TSFC	2.140	1.921	1.831	1.736	1.676	1.612	1.527	1.485
BPR	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.15
MAT2	474	474	474	474	474	474	474	474
N1	5328	5328	5328	5328	5328	5328	5328	5328
N2	7826	7826	7826	7826	7826	7826	7826	7826
PT3D	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
PT4	25.2	25.2	25.2	25.2	25.2	25.2	25.2	26.2
TT3D	938	938	938	938	938	938	938	965
TT4	1365	1365	1365	1365	1365	1365	1365	1369
PT9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7
PT0	5.6	5.8	5.9	6.0	6.1	6.1	6.2	6.7
TT9	1931	1931	1931	1931	1931	1931	1931	1930
TTD	3560	3000	2750	2500	2250	2000	1790	545
WAS/WAP	0.0367	0.0351	0.0350	0.0337	0.0325	0.0312	0.0289	0.0248
VENG	1942	1942	1942	1942	1942	1942	1942	1942
VDUCT	2617	2408	2308	2203	1977	1760	1577	1577
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	13.43	11.70	10.96	10.23	9.51	8.80	7.61	5.23

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ALT	75000	WASIZE	640	PT2/PT2P	0.870	WBL3		0.
MO	2.50	PAM	0.5	PT2	7.6	WBL4		0.
VA KTS	1479	TAM	415	TT2	930	MPERT		0.

CRUISE	MAX D/H							D/H NOT LIT
FNT	11130	9378	8560	7728	6869	5974	4881	2306
FGT	23564	21792	20975	20143	19284	18389	17296	14721
WAT	160	160	160	160	160	160	160	160
WFT	22511	17159	14944	12984	11151	9401	7463	3610
TSFC	2.019	1.830	1.746	1.680	1.623	1.573	1.529	1.569
BPR	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.09
MAT2	612	612	612	612	612	612	612	612
N1	5238	5238	5238	5238	5238	5238	5238	5280
N2	7978	7978	7978	7978	7978	7978	7978	8011
PT3D	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.9
PT4	32.9	32.9	32.9	32.9	32.9	32.9	32.9	34.0
TT3D	1061	1061	1061	1061	1061	1061	1061	1087
TT4	1456	1456	1456	1456	1456	1456	1456	1470
PT9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.0
PT0	9.7	9.8	9.9	10.0	10.1	10.1	10.2	10.6
TT9	1929	1929	1929	1929	1929	1929	1929	1928
TTD	3560	3000	2750	2500	2250	2000	1760	1067
WAS/WAP	0.0361	0.0338	0.0327	0.0316	0.0304	0.0292	0.0277	0.0241
VENG	1942	1942	1942	1942	1942	1942	1942	1941
VDUCT	2618	2408	2308	2204	2093	1977	1832	1437
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.60	8.49	8.01	7.52	7.04	6.55	5.96	4.34

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ALT	75000	WASIZE	640	PT2/PT2P	0.846	WBL3		0.
MO	2.70	PAM	0.5	PT2	10.1	WBL4		0.
VA KTS	1597	TAM	415	TT2	1013	MPERT		0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	12761	10566	9567	8552	7507	6421	5458	2625
FGT	28523	26346	25349	24334	23289	22202	21240	18207
WAT	188	188	188	188	188	188	188	188
WFT	25586	19245	16706	14410	12270	10229	8558	4029
TSFC	2.008	1.822	1.746	1.685	1.636	1.593	1.568	1.661
BPR	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03
MAT2	382	382	382	382	382	382	382	382
N1	5157	5157	5157	5157	5157	5157	5157	5200
N2	8096	8096	8096	8096	8096	8096	8096	8126
PT3D	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.7
PT4	39.1	39.1	39.1	39.1	39.1	39.1	39.1	40.5
TT3D	1147	1147	1147	1147	1147	1147	1147	1153
TT4	1530	1530	1530	1530	1530	1530	1530	1545
PT9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.1
PT0	12.9	13.1	13.1	13.2	13.3	13.3	13.4	13.9
TT9	1927	1927	1927	1927	1927	1927	1927	1927
TTD	3560	3000	2750	2500	2250	2000	1788	1153
WAS/WAP	0.0345	0.0323	0.0313	0.0302	0.0291	0.0279	0.0269	0.0236
VENG	1941	1941	1941	1941	1941	1941	1941	1941
VDUCT	2618	2408	2309	2204	2094	1977	1872	1513
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.43	7.50	7.08	6.67	6.25	5.82	5.44	4.06

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ALT	55000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.
MN	2.70	FAM	1.3	PT2	12.4	WBL4	0.
VA KTS	1294	TAM	410	TT2	805	MPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	24299	22887	19319	17696	16025	14278	11310	6075
FGT	43553	41 [illegible]	40217	40049	38427	37080	34112	28877
WAT	334	332	330	329	328	326	324	316
WFT	49131	37086	33516	29301	25483	21826	16163	8440
TSFC	2.022	1.819	1.735	1.696	1.590	1.529	1.447	1.389
RPM	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
MAT2	478	478	478	478	478	478	478	478
N1	9392	9392	9392	9392	9392	9392	9392	9427
N2	7983	7983	7983	7983	7983	7983	7983	8045
PT30	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.4
PT6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	71.4
TT30	962	962	962	962	962	962	962	969
TT4	1354	1354	1354	1354	1354	1354	1354	1364
PT8	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.0
PT2	16.8	17.2	17.4	17.6	17.8	17.9	18.2	19.3
TT9	1920	1920	1920	1920	1920	1920	1920	1934
TT2	3560	3000	2750	2500	2250	2000	1602	969
WAS/WAP	0.0387	0.0362	0.0340	0.0338	[illegible]	0.0313	0.0291	0.0252
VENG	1995	1981	[illegible]	[illegible]	1957	[illegible]	[illegible]	1767
VDUCT	2614	2408	2308	2203	2099	1997	1775	1375
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.47	10.07	9.46	8.86	8.27	7.67	6.69	4.85

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ALT	55000	WASIZE	640	PT2/PT2P	0.893	WBL3	0.
MN	2.90	FAM	1.3	PT2	19.8	WBL4	0.
VA KTS	1479	TAM	410	TT2	919	MPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	30778	25960	23737	21474	19138	16705	13440	6644
FGT	46614	45700	45477	45214	44977	40444	47405	40165
WAT	437	437	437	437	437	437	437	437
WFT	61436	44905	45691	35570	30493	25512	20446	10215
TSFC	1.996	1.807	1.729	1.656	1.595	1.547	1.498	1.507
RPM	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.00
MAT2	632	632	632	632	632	632	632	632
N1	9367	9367	9367	9367	9367	9367	9367	9408
N2	8064	8064	8064	8064	8064	8064	8064	8107
PT30	29.5	29.5	29.5	29.5	29.5	29.5	29.5	30.2
PT6	91.3	91.3	91.3	91.3	91.3	91.3	91.3	94.6
TT30	1053	1053	1053	1053	1053	1053	1053	1060
TT4	1458	1458	1458	1458	1458	1458	1458	1472
PT8	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.7
PT2	25.9	26.0	26.2	26.4	26.6	26.8	27.0	28.3
TT9	1917	1917	1917	1917	1917	1917	1917	1926
TT2	3560	3000	2750	2500	2250	2000	1703	1060
WAS/WAP	0.0362	0.0339	0.0328	0.0317	0.0305	0.0293	0.0276	0.0254
VENG	1994	1977	[illegible]	[illegible]	1911	1936	1936	1935
VDUCT	2614	2408	2308	2204	2099	1997	1778	1452
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.88	8.72	8.22	7.72	7.22	6.72	6.06	4.49

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ALT	55000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.
MN	2.70	FAM	1.3	PT2	26.3	WBL4	0.
VA KTS	1588	TAM	410	TT2	1001	MPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	32492	29304	26764	23972	21096	18105	13229	6969
FGT	49776	47741	46050	43548	40483	37392	32616	25256
WAT	520	520	520	520	520	520	520	520
WFT	70726	53262	46265	35950	30058	24534	15125	11152
TSFC	1.993	1.805	1.729	1.667	1.626	1.570	1.561	1.605
RPM	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.032
MAT2	406	406	406	406	406	406	406	406
N1	9319	9319	9319	9319	9319	9319	9319	9362
N2	8171	8171	8171	8171	8171	8171	8171	8204
PT30	37.8	37.8	37.8	37.8	37.8	37.8	37.8	38.6
PT6	108.5	108.5	108.5	108.5	108.5	108.5	108.5	112.9
TT30	1136	1136	1136	1136	1136	1136	1136	1142
TT4	1532	1532	1532	1532	1532	1532	1532	1547
PT8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.7
PT2	33.4	33.9	34.2	34.4	34.6	34.7	34.9	36.3
TT9	1916	1916	1916	1916	1916	1916	1916	1925
TT2	3560	3000	2750	2500	2250	2000	1778	1142
WAS/WAP	0.0347	0.0325	0.0314	0.0304	0.0292	0.0281	0.0270	0.0256
VENG	1935	1932	1935	1935	1932	1932	1935	1935
VDUCT	2618	2408	2309	2204	2094	1977	1807	1506
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	8.94	7.94	7.50	7.05	6.61	6.15	5.75	4.25

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ALT	65000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.
MN	2.20	FAM	0.8	PT2	8.0	WBL4	0.
VA KTS	1294	TAM	410	TT2	805	MPEXT	C.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	14957	12648	11879	10877	9836	8751	6981	4625
FGT	24036	24587	26014	25011	23975	22891	21041	17[illegible]
WAT	208	208	208	208	208	208	208	208
WFT	30649	25704	20402	18248	15884	13571	10105	5133
TSFC	2.052	1.865	1.760	1.679	1.613	1.551	1.468	1.418
RPM	2.295	2.295	2.295	2.295	2.295	2.295	2.295	2.295
MAT2	478	478	478	478	478	478	478	478
N1	9367	9367	9367	9367	9367	9367	9367	9408
N2	7914	7914	7914	7914	7914	7914	[illegible]	7976
PT30	12.0	12.0	12.0	[illegible]	12.0	12.0	12.0	12.5
PT6	42.8	42.8	42.8	42.8	42.8	42.8	42.8	44.5
TT30	936	936	936	936	936	936	936	944
TT4	1350	1350	1350	1350	1350	1350	1350	1364
PT8	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.9
PT2	9.9	10.1	10.3	10.4	10.5	10.6	10.8	11.5
TT9	1925	1925	1925	1925	1925	1925	1925	1924
TT2	3560	3000	2750	2500	2250	2000	1597	964
WAS/WAP	0.0387	0.0363	0.0351	0.0339	0.0326	0.0313	0.0291	0.0251
VENG	1995	1990	1990	1990	1990	1990	1990	1939
VDUCT	2618	2408	2308	2203	2093	1977	1772	1371
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	12.29	10.75	10.07	9.41	8.77	8.13	7.07	4.87

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ALT	65000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.
MN	2.50	FAM	0.8	PT2	12.3	WBL4	0.
VA KTS	1479	TAM	410	TT2	919	MPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	19055	16061	14678	13270	11816	10302	8380	4900
FGT	29976	26982	25600	24192	22738	21223	20302	24422
WAT	271	271	271	271	271	271	271	271
WFT	38518	29232	25471	22154	19035	16061	12858	6118
TSFC	2.011	1.822	1.739	1.669	1.611	1.559	1.510	1.530
RPM	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.06
MAT2	432	432	432	432	432	432	432	432
N1	9344	9344	9344	9344	9344	9344	9344	9386
N2	8025	8025	8025	8025	8025	8025	8025	8059
PT30	17.9	17.9	17.9	17.9	17.9	17.9	17.9	18.3
PT6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	57.6
TT30	1049	1049	1049	1049	1049	1049	1049	1055
TT4	1454	1454	1454	1454	1454	1454	1454	1469
PT8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.2
PT2	15.3	15.7	15.8	15.9	16.1	16.2	16.3	17.1
TT9	1922	1922	1922	1922	1922	1922	1922	1921
TT2	3560	3000	2750	2500	2250	2000	1699	1055
WAS/WAP	0.0353	0.0348	0.0339	0.0331	0.0322	0.0313	0.0298	0.0261
VENG	1930	1918	1930	1918	1918	1930	1928	1928
VDUCT	2618	2408	2308	2204	2093	1977	1776	1449
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.26	9.25	8.52	8.00	7.48	6.95	6.29	4.59

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ALT	65000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.
MN	2.70	FAM	0.8	PT2	16.3	WBL4	0.
VA KTS	1593	TAM	410	TT2	1001	MPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	22003	18289	16574	14836	13069	11181	9421	4196
FGT	48865	45172	43416	41678	39887	38025	36243	31038
WAT	322	322	322	322	322	322	322	322
WFT	44216	35198	28826	24878	21196	17879	14620	6829
TSFC	2.000	1.816	1.739	1.677	1.622	1.581	1.552	1.627
RPM	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.06
MAT2	404	404	404	404	404	404	404	404
[illegible]	8299	8274	8295	8294	8295	8294	8295	8341
N2	8134	8134	8134	8134	8134	8134	8134	8168
PT30	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.6
[illegible]	66.2	66.2	66.2	66.2	66.2	66.2	66.2	69.8
[illegible]	1132	1132	1132	1132	1132	1132	1132	1139
TT4	1529	1529	1529	1529	1529	1529	1529	1544
[illegible]	11.7	11.7	11.7	11.7	11.7	11.7	11.7	12.0
[illegible]	20.4	20.7	20.7	20.8	20.9	21.0	21.1	22.1
TT9	1922	1922	1922	1922	1922	1922	1922	1920
TT2	3560	3000	2750	2500	2250	2000	1774	1138
[illegible]	0.0348	0.0325	0.0315	0.0304	0.0293	0.0281	0.0270	0.0236
[illegible]	1998	1938	1938	1938	1938	1938	1938	1937
VDUCT	2618	2408	2308	2204	2094	1977	1765	1369
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
[illegible]	9.26	8.21	7.79	7.29	6.82	6.35	5.90	4.36

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C. SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	75000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.
MN	2.70	FAN	0.5	PT2	5.0	WBL4	0.
VA,KTS	1302	TAN	415	TT2	815	WPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	9030	7735	7136	6918	5878	5207	4017	2078
FGT	17427	16432	15933	15515	14675	14004	12914	10925
WAT	129	129	129	129	129	129	129	129
WFT	19648	19018	13192	13485	9944	8447	6178	3031
TSFC	2.169	1.961	1.849	1.762	1.692	1.624	1.538	1.494
BPR	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.16
WAT2	478	478	478	478	478	478	478	478
N1	9343	9343	9343	9343	9343	9343	9343	9386
N2	7827	7827	7827	7827	7827	7827	7827	7879
PT2D	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3
PT6	25.3	25.3	25.3	25.3	25.3	25.3	25.3	26.5
FF2D	937	937	937	937	937	937	937	963
TT4	1354	1354	1354	1354	1354	1354	1354	1369
PT9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.7
PTD	5.5	5.7	5.8	5.8	5.9	6.0	6.1	6.6
TT9	1911	1931	1931	1931	1931	1931	1931	1930
TTD	3560	3000	2750	2500	2250	2000	1586	963
WA3/WAP	0.0587	0.0362	0.0350	0.0336	0.0325	0.0312	0.0288	0.0248
WFMB	1962	1962	1962	1962	1962	1962	1962	1962	1962
	5248	5248	5248	5248	5248	5248	1477	1766	1371
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCD0	13.96	12.14	11.34	10.49	9.84	9.10	7.84	5.98

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ALT	75000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.
MN	2.50	FAN	0.5	PT2	7.4	WBL4	0.
VA,KTS	1479	TAN	415	TT2	930	WPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	11637	9780	8922	8046	7142	6199	5014	2786
FGT	24654	23986	23332	21964	20144	19216	18031	15104
WAT	168	168	168	168	168	168	168	168
WFT	25850	18142	15780	13630	11735	9868	7750	3637
TSFC	2.049	1.855	1.769	1.701	1.643	1.592	1.546	1.491
BPR	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.17
WAT2	432	432	432	432	432	432	432	432
N1	9318	9318	9318	9318	9318	9318	9318	9362
N2	7984	7984	7984	7984	7984	7984	7984	8016
PT2D	10.7	10.7	10.7	10.7	10.7	10.7	10.7	11.0
PT6	33.2	33.2	33.2	33.2	33.2	33.2	33.2	34.4
FF2D	1053	1053	1053	1053	1053	1053	1053	1079
TT4	1460	1460	1460	1460	1460	1460	1460	1479
PT9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.1
PTD	9.0	9.2	9.3	9.4	9.5	9.5	9.6	10.1
TT9	1929	1928	1928	1928	1929	1928	1928	1927
TTD	3560	3000	2750	2500	2250	2000	1702	1099
WA3/WAP	0.0362	0.0334	0.0327	0.0315	0.0304	0.0282	0.0256	0.0228
WFMB	1961	1961	1961	1961	1961	1961	1961	1961
	7618	5604	4108	2804	2093	1937	1928	1661
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCD0	11.52	9.65	8.11	8.55	7.68	7.41	6.71	4.84

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ALT	75000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.
MN	2.30	FAN	0.5	PT2	10.1	WBL4	0.
VA,KTS	1597	TAN	415	TT2	1013	WPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	13677	11160	10096	9015	7899	6738	5663	2603
FGT	30179	27862	26800	25917	24601	23440	22365	19109
WAT	199	199	199	199	199	199	199	199
WFT	27411	20568	17826	15352	13042	10859	8920	4868
TSFC	2.034	1.843	1.765	1.703	1.651	1.609	1.587	1.693
BPR	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.16
WAT2	404	04	404	404	404	404	404	404
N1	9277	9277	9277	9277	9277	9277	9277	9318
N2	8104	8104	8104	8104	8104	8104	8104	8131
PT2D	13.9	13.9	13.9	13.9	13.9	13.9	13.9	14.2
PT6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	41.1
FF2D	1137	1137	1137	1137	1137	1137	1137	1143
TT4	1536	1536	1536	1536	1536	1536	1536	1551
PT9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.2
PTD	12.0	12.2	12.3	12.4	12.5	12.6	12.6	13.2
TT9	1926	1926	1926	1926	1926	1926	1926	1925
TTD	3560	3000	2750	2500	2250	2000	1778	1143
WA3/WAP	0.0367	0.0324	0.0314	0.0303	0.0291	0.0279	0.0268	0.0234
WFMB	1960	1960	1960	1960	1960	1960	1960	1960
VUQCT	2618	2408	2309	2204	2094	1977	1867	1536
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCD0	9.76	8.65	8.14	7.66	7.16	6.66	6.20	4.66

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ALT	55000	WAISIZE	640	PT2/PT2P	0.904	WBL3	0.
MO	2.30	PAM	1.3	PT2	12.9	WBL4	0.
DA RTS	1295	TAM	410	TT2	909	MPERT	0.

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	23925	20568	19021	17633	15754	14081	11707
FGT	46269	42012	41167	39777	38134	36420	33546
WAT	329	169	329	329	329	329	329
WFT	47917	37097	32749	28648	24956	21581	16115
TSFC	2.004	1.804	1.722	1.663	1.579	1.518	1.436
BPR	1.71	1.71	1.71	1.71	1.71	1.71	1.71
WAT2	469	469	469	468	468	468	468
N1	9353	9353	9353	9353	9353	9353	9353
N2	7983	7983	7983	7983	7983	7983	8045
PT3D	20.5	20.5	20.5	20.5	20.5	20.5	21.2
TT4	70.2	70.2	70.2	70.2	70.2	70.2	72.8
FF3D	965	965	965	965	965	965	935
TT4	1352	1352	1352	1352	1352	1352	1366
PT9	12.5	12.5	12.5	12.5	12.5	12.5	13.0
PT8	17.5	17.5	18.1	18.2	18.4	18.5	18.7
TT9	1920	1920	1920	1920	1920	1920	1920
TTD	3560	3000	2750	2500	2250	2000	1605
WAI/WAP	0.0186	0.0162	0.0150	0.0138	0.0126	0.0115	0.0092
WBL3	1937	1937	1937	1937	1937	1937	1937
VDUCT	2614	2408	2309	2204	2093	1977	1776
AJCOR	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOO	10.72	9.44	8.86	8.32	7.77	7.22	6.31

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ALT	55000	WAISIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAM	1.3	PT2	10.8	WBL4	0.
DA RTS	1470	TAM	410	TT2	919	MPERT	0.

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	28259	23877	21862	19814	17704	15309	12931
FGT	52264	49771	48853	48025	46804	44623	41903
WAT	402	402	402	402	402	402	402
WFT	55106	47587	37058	32357	27804	23682	19.6
TSFC	1.957	1.776	1.695	1.631	1.576	1.527	1.448
BPR	1.93	1.93	1.93	1.93	1.93	1.93	1.93
WAT2	517	517	517	517	517	517	517
N1	9210	9210	9210	9210	9210	9210	9210
N2	8055	8055	8055	8055	8055	8055	8098
PT3D	31.1	31.1	31.1	31.1	31.1	31.1	31.8
TT4	89.4	89.4	89.4	89.4	89.4	89.4	92.6
FF3D	1070	1070	1070	1070	1070	1070	1033
TT4	1450	1450	1450	1450	1450	1450	1469
PT9	15.8	15.8	15.8	15.8	15.8	15.8	16.3
PT8	23.2	23.3	23.7	23.9	24.0	24.1	24.4
TT9	1970	1970	1970	1970	1970	1970	1970
TTD	3560	3000	2750	2500	2250	2000	1718
WAI/WAP	0.0360	0.0318	0.0327	0.0316	0.0305	0.0293	0.0275
WBL3	1937	1937	1937	1937	1937	1937	1937
VDUCT	2614	2408	2308	2204	2093	1977	1836
AJCOR	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOO	7.94	7.06	6.67	6.28	5.88	5.48	5.03

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ALT	55000	WAISIZE	640	PT2/PT2P	0.866	WBL3	0.
MO	2.70	PAM	1.3	PT2	26.3	WBL4	0.
DA RTS	1388	TAM	410	TT2	1001	MPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	10700	25630	23114	20899	18536	16020	13965	7037
FGT	48817	47558	47231	46878	46617	45939	45446	44366
WAT	455	455	455	455	455	455	455	455
WFT	59748	45323	38537	34514	29443	24795	21274	10899
TSFC	1.949	1.768	1.696	1.637	1.588	1.548	1.523	1.563
BPR	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.70
WAT2	354	354	354	354	354	354	354	354
N1	9138	9138	9138	9138	9138	9138	9138	9091
N2	8158	8158	8158	8158	8158	8158	8158	8192
PT3D	40.9	40.9	40.9	40.9	40.9	40.9	40.9	41.7
TT4	1060	1060	1060	1060	1060	1060	1060	1100
FF3D	1164	1164	1164	1164	1164	1164	1164	1172
TT4	1523	1523	1523	1523	1523	1523	1523	1539
PT9	18.6	18.6	18.6	18.6	18.6	18.6	18.6	19.3
PT8	38.1	38.4	38.6	38.7	38.8	38.9	39.0	40.2
TT9	1918	1918	1918	1918	1918	1918	1918	1918
TTD	3560	3000	2750	2500	2250	2000	1804	1172
WAI/WAP	0.0344	0.0322	0.0312	0.0302	0.0292	0.0281	0.0272	0.0241
WBL3	1937	1937	1937	1937	1937	1937	1937	1936
VDUCT	2618	2409	2309	2204	2093	1977	1840	1527
AJCOR	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCOO	6.44	5.80	5.49	5.18	4.87	4.54	4.28	3.21

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ALT	65000	WAISIZE	640	PT2/PT2P	0.906	WBL3	0.
MO	2.30	PAM	1.3	PT2	8.0	WBL4	0.
DA RTS	1294	TAM	410	TT2	804	MPERT	0.

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	14757	12676	11718	10731	9712	8647	6850
FGT	28612	26552	25575	24566	23567	22503	20848
WAT	204	204	204	204	204	204	204
WFT	29943	23150	20623	17851	15522	13202	9546
TSFC	2.030	1.826	1.743	1.665	1.598	1.537	1.436
BPR	2.00	2.00	2.00	2.00	2.00	2.00	2.00
WAT2	468	468	468	468	468	468	468
N1	9332	9332	9332	9332	9332	9332	9332
N2	7914	7914	7914	7914	7914	7914	7914
PT3D	12.4	12.4	12.4	12.4	12.4	12.4	12.4
TT4	42.5	42.5	42.5	42.5	42.5	42.5	42.5
FF3D	940	940	940	940	940	940	940
TT4	1348	1348	1348	1348	1348	1348	1348
PT9	7.6	7.6	7.6	7.6	7.6	7.6	7.6
PT8	10.3	10.6	10.7	10.8	10.9	11.0	11.2
TT9	1926	1926	1926	1926	1926	1926	1926
TTD	3560	3000	2750	2500	2250	2000	1605
WAI/WAP	0.0587	0.0562	0.0551	0.0539	0.0526	0.0513	0.0491
WBL3	1940	1940	1940	1940	1940	1940	1940
VDUCT	2619	2408	2308	2203	2093	1977	1776
AJCOR	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCOO	11.36	9.98	9.37	8.78	8.19	7.60	6.63

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ALT	65000	WAISIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAM	0.8	PT2	12.5	WBL4	0.
DA RTS	1470	TAM	410	TT2	919	MPERT	0.

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	17527	14779	13562	12265	10969	9579	7930
FGT	36744	34015	32756	31452	30166	28796	27147
WAT	249	249	249	249	249	249	249
WFT	34529	26446	23099	20137	17358	14726	11837
TSFC	1.970	1.787	1.706	1.642	1.586	1.537	1.493
BPR	1.88	1.88	1.88	1.88	1.88	1.88	1.89
WAT2	397	397	397	397	397	397	397
N1	9185	9185	9185	9185	9185	9185	9227
N2	8013	8013	8013	8013	8013	8013	8051
PT3D	18.9	18.9	18.9	18.9	18.9	18.9	19.4
TT4	54.6	54.6	54.6	54.6	54.6	54.6	56.6
FF3D	1065	1065	1065	1065	1065	1065	1072
TT4	1446	1446	1446	1446	1446	1446	1460
PT9	9.6	9.6	9.6	9.6	9.6	9.6	10.0
PT8	17.8	17.9	17.9	17.9	17.9	17.9	17.9
TT9	1925	1925	1925	1925	1925	1925	1924
TTD	3560	3000	2750	2500	2250	2000	1713
WAI/WAP	0.0351	0.0330	0.0318	0.0306	0.0295	0.0283	0.0266
WBL3	1940	1940	1940	1940	1940	1940	1939
VDUCT	2618	2408	2308	2204	2093	1977	1836
AJCOR	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOO	8.22	7.50	6.98	6.50	6.09	5.67	5.17

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ALT	65000	WAISIZE	640	PT2/PT2P	0.866	WBL3	0.
MO	2.70	PAM	0.8	PT2	16.3	WBL4	0.
DA RTS	1388	TAM	410	TT2	1001	MPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	19085	15917	14470	12998	11485	9910	8591	6248
FGT	42594	39430	37985	36411	34996	33423	32104	27761
WAT	282	282	282	282	282	282	282	282
WFT	37136	28291	24666	21391	18337	14425	12160	5718
TSFC	1.958	1.777	1.705	1.646	1.597	1.556	1.532	1.582
BPR	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
WAT2	354	354	354	354	354	354	354	354
N1	9091	9091	9091	9091	9091	9091	9091	9154
N2	8120	8120	8120	8120	8120	8120	8120	8152
PT3D	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.4
TT4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	66.8
FF3D	1132	1132	1132	1132	1132	1132	1132	1144
TT4	1518	1518	1518	1518	1518	1518	1518	1534
PT9	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.8
PT8	23.1	23.4	23.4	23.5	23.6	23.7	23.7	24.5
TT9	1924	1924	1924	1924	1924	1924	1924	1921
TTD	3560	3000	2750	2500	2250	2000	1799	1166
WAI/WAP	0.0344	0.0325	0.0313	0.0303	0.0292	0.0281	0.0271	0.0240
WBL3	1939	1939	1939	1939	1939	1939	1939	1939
VDUCT	2618	2408	2309	2204	2094	1977	1838	1521
AJCOR	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCOO	6.78	6.44	6.07	5.74	5.42	4.68	4.22	3.30

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DOWNGRADED AT 3 YEAR INTERVALS
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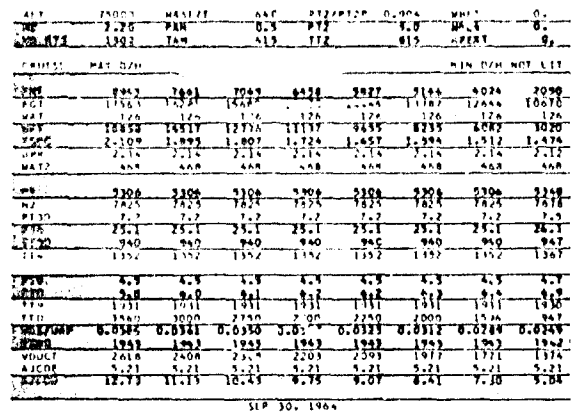

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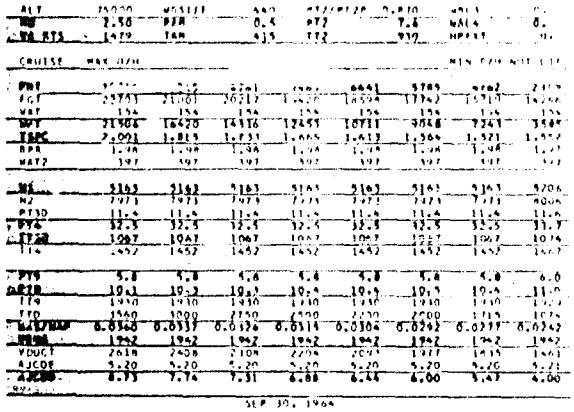

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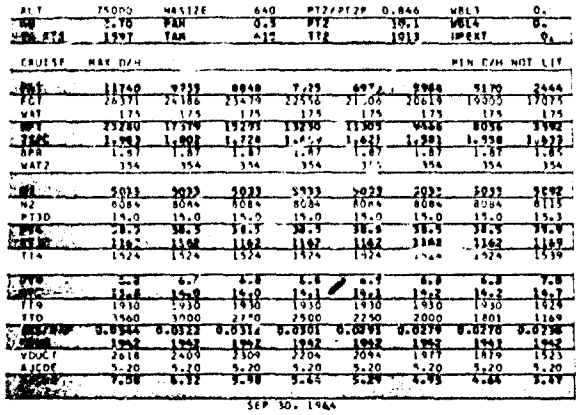

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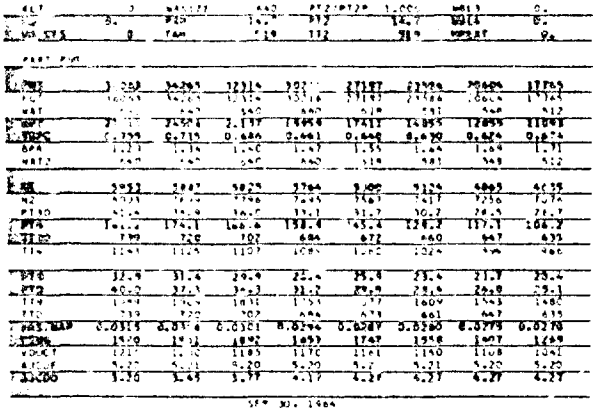

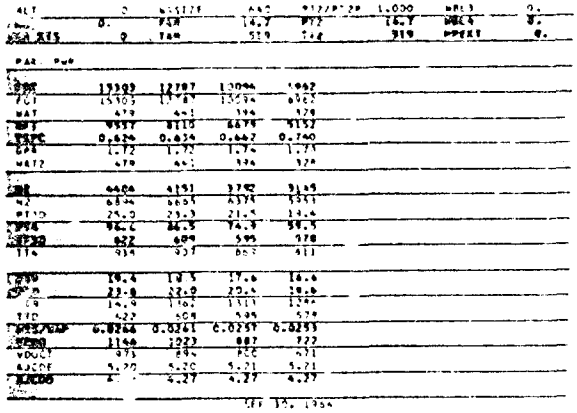

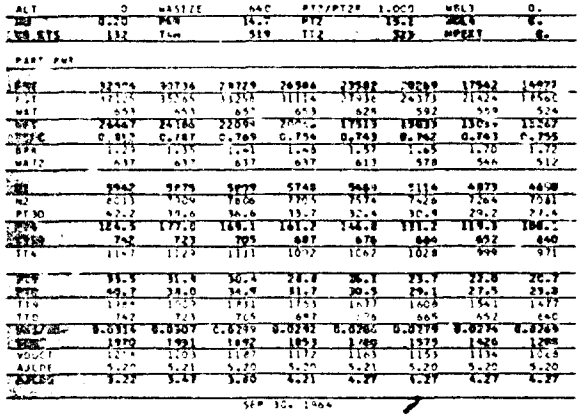

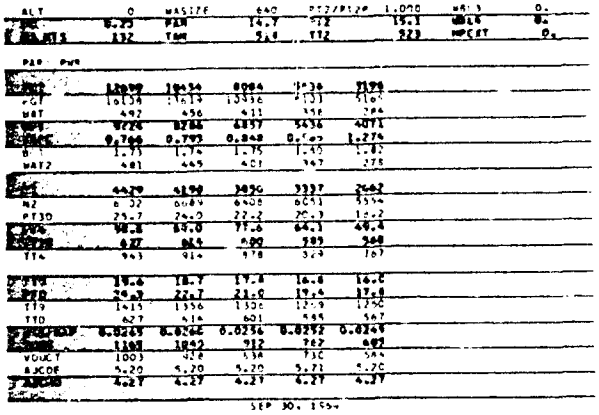

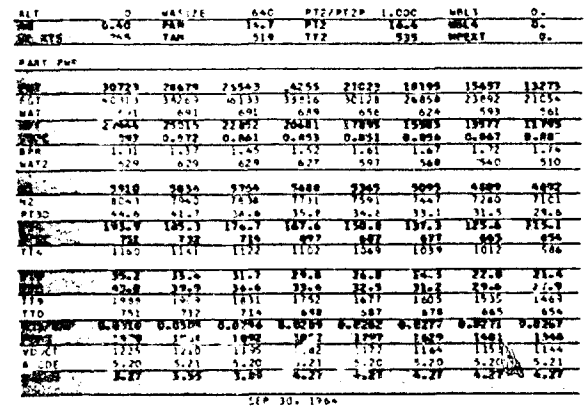

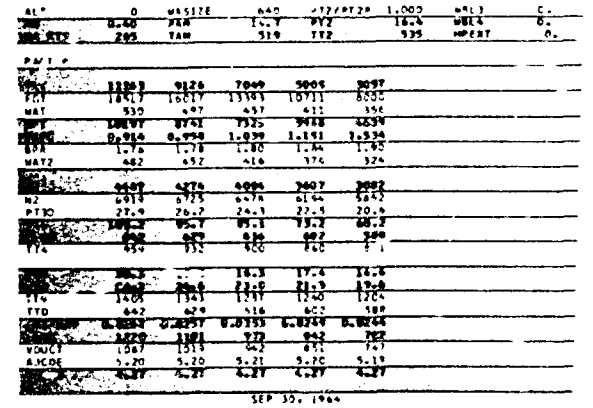

ALT	5000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.20	PAR	12.2	PT2	12.6	WBL4	0.
WA RTS	130	TAR	501	TT2	505	WPART	0.

PART PWR

WF	29736	27523	25613	23855	21607	18804	16104	13647
FGT	13577	11265	10496	27669	26153	22371	19440	16946
WAT	563	551	541	543	541	523	495	463
WFT	29158	21763	19539	17819	15860	13648	11705	10098
FSFC	0.808	0.785	0.763	0.747	0.733	0.726	0.727	0.731
SFC	1.28	1.11	1.14	1.44	1.55	1.60	1.67	1.71
WAT2	650	650	650	650	635	603	567	534
N1	5987	5824	5672	5518	5617	5279	4744	4309
N2	7067	7458	7756	7875	7539	7198	7556	7874
PT30	36.3	34.7	33.4	29.3	27.7	26.7	25.3	23.8
P4	199.9	185.9	167.9	161.6	151.0	118.2	105.8	95.9
WT30	727	709	691	677	661	650	638	625
TT4	1128	1110	1093	1076	1051	1018	985	956
PT9	39.0	37.8	36.6	35.3	33.8	31.0	29.2	27.9
WT9	35.5	33.8	32.6	27.7	25.0	25.1	23.8	22.6
TT9	1549	1510	1491	1454	1416	1402	1355	1310
TTD	727	709	691	673	661	650	638	625
WAS/WAP	0.0515	0.0512	0.0509	0.0297	0.0291	0.0284	0.0278	0.0272
WBE	1970	1932	1895	1853	1813	1671	1498	1355
VDUCT	1206	1191	1176	1161	1150	1140	1130	1092
AJCOE	5.21	5.21	5.21	5.20	5.21	5.21	5.20	5.20
AJCOS	5.18	5.38	5.69	4.09	4.27	4.27	4.27	4.27

SEP 30, 1964

ALT	5000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.20	PAR	12.2	PT2	12.6	WBL4	0.
WA RTS	130	TAR	501	TT2	505	WPART	0.

PART PWR

WF	11698	9802	7935	5719	3585	2632		
FGT	14645	13556	10761	8057	5455	4267		
WAT	434	405	370	327	5	240		
WFT	8696	7490	6749	5056	3843	3513		
FSFC	0.744	0.760	0.797	0.876	1.079	1.299		
SFC	1.71	1.76	1.75	1.77	1.81	1.87		
WAT2	500	467	427	377	331	276		
N1	4589	4260	3994	3777	2936	2605		
N2	5891	6706	6452	6144	5716	5452		
PT30	22.3	20.9	19.5	17.7	16.0	14.2		
P4	87.1	78.0	70.0	58.6	46.9	40.4		
WT30	613	600	587	573	557	548		
TT4	921	901	869	828	770	740		
PT9	16.8	16.0	15.2	14.4	13.6	13.1		
WT9	21.0	19.7	18.3	16.9	15.3	14.4		
TT9	1406	1345	1290	1245	1219	1210		
TTD	613	600	587	573	556	547		
WAS/WAP	0.0268	0.0263	0.0258	0.0244	0.0255	0.0246		
WBE	1219	1097	968	830	670	594		
VDUCT	1025	996	976	776	645	571		
AJCOE	5.21	5.20	5.21	5.20	5.20	5.20		
AJCOS	4.27	4.27	4.27	4.27	4.27	4.27		

SEP 30, 1964

ALT	5000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.40	PAR	12.2	PT2	13.7	WBL4	0.
WA RTS	260	TAR	501	TT2	517	WPART	0.

PART PWR

WF	27296	25458	23901	21989	19498	16801	14449	12296
FGT	15435	33797	32040	30128	27362	24276	21551	19014
WAT	597	597	597	597	577	548	521	493
WFT	24190	22167	20531	18494	16256	14016	12160	10532
FSFC	0.868	0.834	0.853	0.841	0.834	0.834	0.842	0.857
SFC	1.39	1.34	1.40	1.47	1.55	1.64	1.69	1.75
WAT2	661	661	661	661	620	589	559	529
N1	5997	5831	5822	5769	5511	5196	4944	4734
N2	7934	7900	7788	7646	7561	7418	7265	7090
PT30	38.4	36.7	35.6	30.8	29.6	28.5	27.7	26.7
P4	186.8	162.3	155.4	144.7	135.9	122.1	111.1	101.3
WT30	727	719	701	692	677	661	651	639
TT4	1141	1123	1105	1087	1050	1026	997	970
PT9	30.6	29.3	27.9	26.5	24.2	21.7	19.9	18.5
WT9	37.3	34.8	32.0	29.0	27.6	26.8	25.6	24.2
TT9	1989	1909	1851	1753	1677	1602	1530	1465
TTD	737	719	701	682	672	662	651	638
WAS/WAP	0.0315	0.0308	0.0301	0.0294	0.0287	0.0281	0.0275	0.0270
WBE	1978	1931	1892	1859	1813	1715	1551	1405
VDUCT	1214	1196	1184	1168	1159	1151	1141	1130
AJCOE	5.21	5.21	5.21	5.20	5.21	5.20	5.21	5.20
AJCOS	5.20	5.44	5.76	4.11	4.27	4.27	4.27	4.27

SEP 30, 1964

ALT	5000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.40	PAR	12.2	PT2	13.7	WBL4	0.
WA RTS	260	TAR	501	TT2	517	WPART	0.

PART PWR

WF	10342	8281	6846	5932				
FGT	16735	14544	12589	11224				
WAT	469	437	406	389				
WFT	9115	7819	6625	6026				
FSFC	0.879	0.911	0.968	1.016				
SFC	1.75	1.77	1.78	1.80				
WAT2	500	470	437	417				
N1	4537	4324	4096	3944				
N2	6909	6722	6510	6375				
PT30	24.1	22.7	21.1	20.1				
P4	92.6	84.5	75.9	71.1				
WT30	627	615	602	595				
TT4	944	917	888	871				
PT9	17.4	16.5	15.7	15.3				
WT9	22.7	21.3	19.9	19.2				
TT9	1397	1335	1275	1249				
TTD	628	615	602	596				
WAS/WAP	0.0265	0.0260	0.0256	0.0253				
WBE	1274	1191	1030	944				
VDUCT	1106	1042	970	928				
AJCOE	5.21	5.20	5.20	5.20				
AJCOS	4.27	4.27	4.27	4.27				

SEP 30, 1964

ALT	5000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.20	PAR	12.2	PT2	12.6	WBL4	0.
WA RTS	390	TAR	501	TT2	537	WPART	0.

PART PWR

WF	29028	27492	25981	24429	22851	19928	17240	14777
FGT	14126	12511	10643	34117	30686	27705	25122	22547
WAT	655	655	655	650	619	593	568	542
WFT	24758	23096	21535	19979	18444	16023	13948	12098
FSFC	0.760	0.808	0.789	0.787	0.787	0.804	0.809	0.819
SFC	1.32	1.38	1.42	1.51	1.67	1.68	1.73	1.76
WAT2	628	628	628	623	594	568	544	519
N1	6043	5858	5729	5602	5468	5205	4921	4648
N2	7253	7459	7657	7729	7589	7449	7283	7115
PT30	42.3	39.4	36.4	33.8	32.7	31.6	30.3	28.9
P4	215.2	194.1	184.7	170.3	160.9	136.9	119.8	106.0
WT30	730	720	709	695	679	660	645	632
TT4	1161	1142	1123	1103	1069	1041	1016	992
PT9	38.2	36.2	34.0	32.1	30.1	27.8	25.8	24.2
WT9	39.1	37.7	36.0	33.8	32.0	29.7	28.0	27.2
TT9	1967	1909	1851	1793	1678	1602	1527	1455
TTD	752	733	714	698	688	681	669	660
WAS/WAP	0.0322	0.0316	0.0309	0.0302	0.0295	0.0284	0.0273	0.0263
WBE	1978	1931	1892	1859	1813	1715	1551	1405
VDUCT	1224	1210	1196	1182	1173	1167	1157	1146
AJCOE	5.21	5.21	5.20	5.20	5.20	5.20	5.20	5.20
AJCOS	5.21	5.37	5.58	4.27	4.27	4.27	4.27	4.27

SEP 30, 1964

ALT	5000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.40	PAR	12.2	PT2	13.6	WBL4	0.
WA RTS	390	TAR	501	TT2	537	WPART	0.

PART PWR

WF	20226	17900	16767					
FGT	20226	17900	16767					
WAT	515	488	474					
WFT	14082	12457	11599					
FSFC	0.696	0.696	0.692					
SFC	1.78	1.81	1.83					
WAT2	494	468	454					
N1	5286	5078	4886					
N2	6939	6762	6643					
PT30	27.4	25.9	25.0					
P4	129.0	112.0	104.2					
WT30	670	660	654					
TT4	967	940	927					
PT9	25.4	24.1	23.4					
WT9	29.3	27.8	27.0					
TT9	1587	1521	1488					
TTD	690	679	672					
WAS/WAP	0.0296	0.0290	0.0286					
WBE	1574	1391	1313					
VDUCT	1161	1147	1139					
AJCOE	5.20	5.20	5.20					
AJCOS	4.27	4.27	4.27					

SEP 30, 1964

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	15000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.60	PLA	8.3	PT2	10.6	WBL4	0.
WA RTS	376	TAM	465	TT2	499	HPERT	0.

PART PWR

FNT	20935	19488	18174	16973	15799	14769	13722	9774
FGT	15491	15154	27642	26441	24524	22883	19724	17753
WAT	440	440	440	440	440	440	426	407
WFT	19710	18237	16879	15588	13652	11813	10170	8860
TSFC	0.941	0.921	0.904	0.900	0.895	0.892	0.898	0.909
BPR	1.23	1.19	1.18	1.17	1.16	1.18	1.17	1.22
WAT2	654	654	654	654	640	613	580	555
N1	5995	5914	5836	5835	5641	5525	5026	4824
N2	7461	7435	7353	7510	7518	7382	7237	7081
PT30	31.3	29.1	27.1	24.9	23.4	22.7	21.9	21.0
TT4	1359	1310	1260	1209	1159	1082	1013	957
TT30	721	701	685	668	653	645	636	627
TT2	1129	1103	1066	1069	1046	1014	993	957
WF4	24.7	23.7	22.7	21.6	20.1	18.1	16.2	14.8
WF30	29.9	28.3	26.8	25.6	23.1	21.6	20.6	19.7
TT4	1391	1342	1293	1244	1197	1102	1026	1451
TTD	721	703	685	668	655	645	637	627
WAR/WAP	0.0320	0.0311	0.0306	0.0298	0.0293	0.0285	0.0279	0.0273
XNOZ	1971	1912	1893	1854	1814	1773	1733	1638
VDUCT	1250	1245	1171	1156	1145	1136	1129	1120
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDS	5.17	5.39	5.69	6.05	6.27	6.27	6.27	6.27

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ALT	15000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.60	PLA	8.3	PT2	10.6	WBL4	0.
WA RTS	376	TAM	465	TT2	499	HPERT	0.

PART PWR

FNT	21712	20195	18826	17585	16366	15240	14174	10132
FGT	16010	15692	29024	27801	25703	23666	20466	18355
WAT	456	456	456	456	456	456	441	422
WFT	21806	19916	18216	16661	14989	13477	10919	9356
TSFC	1.004	0.984	0.979	0.976	0.976	0.983	0.993	1.009
BPR	1.30	1.26	1.23	1.20	1.19	1.17	1.12	1.16
WAT2	636	636	636	636	607	578	554	532
N1	5931	5861	5797	5735	5623	5135	4948	4799
N2	8035	7952	7801	7647	7562	7420	7267	7100
PT30	35.0	32.7	30.5	27.9	27.0	26.0	25.1	24.1
TT4	1512.0	1462.9	1409.0	1355.3	1301.9	1064.1	1004.4	972.9
TT30	742	723	705	687	677	668	659	651
TT2	1148	1130	1112	1093	1061	1030	1005	982
WF4	27.7	26.6	25.1	23.8	22.4	19.3	17.7	16.3
WF30	33.7	31.3	29.0	26.2	25.4	24.5	23.6	22.7
TT4	1386	1411	1832	1784	1678	1605	1526	1450
TTD	742	721	705	687	678	669	660	652
WAR/WAP	0.0313	0.0304	0.0296	0.0291	0.0285	0.0279	0.0273	0.0268
XNOZ	1970	1932	1893	1853	1815	1774	1733	1690
VDUCT	1216	1202	1187	1173	1164	1157	1149	1142
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDS	5.23	5.52	5.89	6.27	6.27	6.27	6.27	6.27

SEP 30, 1964

ALT	15000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PLA	8.3	PT2	12.6	WBL4	0.
WA RTS	501	TAM	465	TT2	525	HPERT	0.

PART PWR

FNT	8932	6719	5624	4705	3977	3342	1123	730
FGT	19614	17712	15642	14249	12317	10771	9765	8525
WAT	417	418	397	376	354	331	309	290
WFT	8348	7217	6146	5213	4348	3578	2876	2352
TSFC	1.010	1.074	1.137	1.240	1.413	1.735	2.496	3.496
BPR	1.78	1.82	1.86	1.89	1.92	1.96	2.04	2.09
WAT2	510	489	465	435	417	397	361	347
N1	6457	6509	6332	6153	5935	3648	3361	3188
N2	6932	6751	6554	6356	6169	6001	5769	5673
PT30	23.1	22.1	21.0	19.8	18.6	17.4	16.2	15.7
TT4	86.1	79.3	72.5	65.9	59.5	53.3	46.7	43.6
TT30	652	636	624	613	602	591	580	574
TT2	959	935	910	885	855	830	797	780
WF4	15.0	13.9	12.9	12.1	11.3	10.7	10.2	9.9
WF30	21.7	20.8	19.8	18.6	17.5	16.3	15.3	14.7
TT4	1374	1301	1212	1166	1104	1044	989	961
TTD	663	636	624	613	602	591	580	574
WAR/WAP	0.0263	0.0258	0.0253	0.0248	0.0243	0.0238	0.0233	0.0231
XNOZ	1818	1668	1527	1398	1283	1182	1090	1041
VDUCT	1134	1126	1118	1108	1098	1088	1056	1022
AJCOE	5.21	5.20	5.20	5.20	5.20	5.21	5.21	5.20
AJCDS	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27

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ALT	15000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.90	PLA	8.3	PT2	14.6	WBL4	0.
WA RTS	544	TAM	465	TT2	541	HPERT	0.

PART PWR

FNT	10217	10003	14967	13244	12078	11081	8475	6675
FGT	17635	16091	31313	30417	28242	25963	23542	21859
WAT	504	504	576	540	526	506	486	468
WFT	26968	25054	47071	44826	39958	33415	30018	27933
TSFC	1.017	1.033	1.012	1.012	1.030	1.028	1.034	1.050
BPR	1.45	1.44	1.36	1.44	1.40	1.74	1.77	1.80
WAT2	625	625	616	568	561	541	519	500
N1	4806	4797	7491	7299	7082	4787	4784	4625
N2	7039	7017	9725	9545	9440	7379	7114	6943
PT30	34.9	32.3	50.3	49.2	48.2	37.2	36.1	35.1
TT4	1395.8	1367.6	1351.3	1281.1	1214.9	1048.8	988.9	952.9
TT30	730	718	786	771	757	835	804	785
TT2	1144	1125	1102	1070	1041	1020	997	974
WF4	25.8	24.9	24.7	23.3	20.9	18.7	17.8	16.9
WF30	33.1	30.8	28.5	27.3	25.9	23.9	22.9	21.9
TT4	1911	1832	1754	1676	1601	1526	1450	1373
TTD	734	716	707	691	683	675	666	659
WAR/WAP	0.0306	0.0296	0.0287	0.0282	0.0276	0.0270	0.0265	0.0260
XNOZ	1966	1953	1898	1845	1796	1743	1693	1642
VDUCT	1211	1196	1185	1176	1169	1162	1155	1149
AJCOE	5.20	5.20	5.21	5.20	5.20	5.21	5.20	5.21
AJCDS	5.58	5.96	6.27	6.27	6.27	6.27	6.27	6.27

SEP 30, 1964

ALT	15000	MASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.90	PLA	8.3	PT2	14.6	WBL4	0.
WA RTS	544	TAM	465	TT2	541	HPERT	0.

PART PWR

FNT	8739	8407	4160	3845	3520	1121		
FGT	19486	18073	16211	14637	12760	11310		
WAT	469	469	407	389	361	341		
WFT	9906	8478	5479	4570	3774	3064		
TSFC	1.137	1.139	1.313	1.906	1.869	2.719		
BPR	1.84	1.88	1.82	1.79	1.84	2.05		
WAT2	480	458	435	412	388	365		
N1	4697	4538	4188	3985	3748	3469		
N2	6761	6571	6377	6201	6044	5866		
PT30	24.1	23.0	21.9	20.6	19.4	18.3		
TT4	86.0	77.7	70.4	64.3	58.0	51.7		
TT30	688	670	651	641	618	599		
TT2	951	927	903	877	850	820		
WF4	16.7	15.6	12.6	11.8	11.1	10.6		
WF30	22.7	21.7	20.8	19.4	18.3	17.2		
TT4	1299	1228	1154	1066	1011	974		
TTD	650	642	631	621	610	599		
WAR/WAP	0.0259	0.0253	0.0245	0.0240	0.0234	0.0231		
XNOZ	1940	1892	1838	1788	1738	1688		
VDUCT	1141	1133	1125	1115	1105	1095		
AJCOE	5.20	5.20	5.20	5.20	5.21	5.19		
AJCDS	6.27	6.27	6.27	6.27	6.27	6.27		

SEP 30, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.83	FAR	5.3	PT2	4.2	WBL4	0.
VR KTS	344	TAM	390	TT2	418	WPERT	0.

PART PWR

FNT	9343	8815	8290	7629	6996	6295	5581	4907
FGT	13261	12733	12168	11543	10968	10017	8916	7817
WAT	217	217	217	217	213	206	196	184
SFT	8170	7618	6936	6158	5746	5163	4550	3961
TSFC	0.874	0.884	0.891	0.931	0.871	0.911	0.908	0.916
EPR	1.31	1.35	1.39	1.43	1.46	1.48	1.47	1.47
WAT2	686	686	686	686	672	650	617	581
N1	7910	7859	7819	7706	7590	7380	6952	6626
N2	7522	7166	7245	7141	7030	6920	6742	6636
PT30	13.1	12.3	11.6	10.6	9.8	9.6	9.1	8.7
TT4	58.1	54.1	54.1	51.9	49.9	46.2	41.3	38.5
FF30	630	604	588	572	582	533	542	526
TT4	990	972	955	938	917	894	861	831
BYP	10.5	10.1	9.7	9.3	8.8	8.2	7.3	6.4
FAN	12.7	11.8	10.9	9.8	9.2	8.9	8.2	8.2
TT9	1811	1751	1674	1598	1520	1442	1367	1294
TTD	672	654	588	572	562	554	543	526
WA3/WAP	0.0331	0.0325	0.0316	0.0308	0.0302	0.0295	0.0267	0.0240
WFMR	1892	1833	1812	1771	1729	1685	1642	1599
VDUCT	1114	1099	1085	1070	1061	1053	1043	1034
AJCOE	5.21	5.20	5.21	5.21	5.20	5.21	5.21	5.20
AJCOD	5.16	5.39	5.07	4.08	4.27	4.27	4.27	4.27

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	FAR	5.3	PT2	4.2	WBL4	0.
VR KTS	344	TAM	390	TT2	418	WPERT	0.

PART PWR

FNT	8757	8268	7674	7003	6361			
FGT	12911	12359	11745	11000	10156			
WAT	175	165	155	144	132			
SFT	7117	6645	6118	5483	4874			
TSFC	0.830	0.837	0.904	0.949	1.157			
EPR	1.35	1.39	1.40	1.43	1.86			
WAT2	551	519	487	453	417			
N1	8407	8215	8017	7800	7548			
N2	8475	8293	8097	7887	7665			
PT30	8.3	7.8	7.3	6.7	6.2			
TT4	32.9	29.7	26.8	23.9	21.0			
FF30	559	515	505	493	481			
TT4	855	780	755	728	701			
BYP	5.8	5.5	5.0	4.5	4.2			
FAN	7.8	7.3	6.8	6.3	5.8			
TT9	1255	1149	1083	1021	961			
TTD	525	516	504	493	480			
WA3/WAP	0.0277	0.0267	0.0261	0.0255	0.0248			
WFMR	1440	1323	1179	1042	910			
VDUCT	1075	1016	1055	994	925			
AJCOE	5.21	5.21	5.21	5.20	5.20			
AJCOD	4.27	4.27	4.27	4.27	4.27			

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	FAR	5.3	PT2	5.0	WBL4	0.
VR KTS	459	TAM	390	TT2	440	WPERT	0.

PART PWR

FNT	10768	10164	9539	8848	8131	7397	6668	5933
FGT	16665	16265	15640	14948	14185	13246	12065	10751
WAT	253	253	253	253	241	243	233	220
SFT	10157	9437	8781	8005	7304	6557	5703	4831
TSFC	0.943	0.929	0.921	0.905	0.897	0.887	0.882	0.886
EPR	1.51	1.54	1.58	1.63	1.65	1.67	1.64	1.64
WAT2	686	686	686	686	678	657	629	595
N1	6979	6929	9989	9957	9813	9520	9198	8868
N2	7756	7576	7446	7352	7241	7134	7030	6963
PT30	15.7	14.7	13.7	12.9	11.8	11.4	11.0	10.6
TT4	69.7	67.4	65.1	62.7	60.0	56.3	51.5	45.7
FF30	695	656	621	605	593	585	575	560
TT4	1042	1024	1005	990	969	946	918	886
BYP	12.7	12.2	11.8	11.3	10.7	10.1	9.1	8.0
FAN	15.2	14.2	13.1	11.9	11.1	10.7	10.3	10.0
TT9	1934	1856	1777	1699	1621	1545	1469	1393
TTD	652	636	621	605	593	584	576	566
WA3/WAP	0.0331	0.0324	0.0317	0.0310	0.0303	0.0297	0.0290	0.0283
WFMR	1943	1902	1860	1819	1778	1742	1700	1657
VDUCT	1147	1128	1115	1100	1090	1082	1073	1064
AJCOE	5.21	5.20	5.21	5.21	5.20	5.21	5.21	5.21
AJCOD	5.16	5.38	5.04	4.01	4.27	4.27	4.27	4.27

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.88	FAR	5.3	PT2	5.0	WBL4	0.
VR KTS	459	TAM	390	TT2	440	WPERT	0.

PART PWR

FNT	4601	3878	3230	2613	2018	1468	971	538
FGT	6219	4464	7786	6937	6084	4971	4661	3705
WAT	208	199	189	180	169	158	147	135
SFT	6127	5543	5039	4572	3159	2759	1803	1499
TSFC	0.897	0.913	0.941	0.985	1.070	1.228	1.544	2.295
EPR	1.71	1.76	1.79	1.83	1.89	1.91	1.95	2.03
WAT2	564	538	512	486	457	427	396	366
N1	4607	4436	4285	4117	3932	3729	3443	3152
N2	6712	6563	6369	6178	5971	5753	5510	5360
PT30	10.1	9.7	9.2	8.7	8.2	7.6	7.0	6.5
TT4	41.1	37.5	34.3	31.2	28.0	25.0	22.1	19.1
FF30	557	540	541	532	522	511	500	488
TT4	858	834	811	787	762	737	709	678
BYP	7.2	6.5	6.0	5.4	5.0	4.6	4.3	4.1
FAN	9.2	9.1	8.7	8.7	7.7	7.2	6.6	6.1
TT9	1319	1243	1169	1097	1030	967	908	852
TTD	558	548	542	537	522	511	499	489
WA3/WAP	0.0276	0.0270	0.0264	0.0258	0.0252	0.0246	0.0241	0.0235
WFMR	1085	1068	1049	1035	1018	1007	996	982
VDUCT	1057	1048	1041	1032	1022	1011	1000	979
AJCOE	5.20	5.21	5.21	5.20	5.21	5.20	5.20	5.21
AJCOD	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	FAR	5.3	PT2	4.2	WBL4	0.
VR KTS	459	TAM	390	TT2	440	WPERT	0.

PART PWR

FNT	7447							
FGT	3455							
WAT	129							
SFT	1118							
TSFC	2.269							
EPR	2.04							
WAT2	349							
N1	2966							
N2	5740							
PT30	6.3							
TT4	11.6							
FF30	488							
TT4	661							
BYP	5.0							
FAN	5.9							
TT9	837							
TTD	483							
WA3/WAP	0.0232							
WFMR	718							
VDUCT	964							
AJCOE	5.21							
AJCOD	4.27							

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.90	FAR	5.3	PT2	5.6	WBL4	0.
VR KTS	516	TAM	390	TT2	493	WPERT	0.

PART PWR

FNT	11836	11160	10491	9758	9005	8215	7359	6175
FGT	19315	18657	17988	17259	16495	15466	14207	12771
WAT	277	277	277	277	275	267	257	244
SFT	11392	10728	9961	9153	8238	7267	6241	5154
TSFC	0.978	0.961	0.949	0.938	0.933	0.921	0.915	0.917
EPR	1.30	1.34	1.37	1.42	1.46	1.47	1.52	1.62
WAT2	685	685	685	695	681	661	635	603
N1	6150	6108	6068	6035	5987	5944	5336	5010
N2	7863	7700	7577	7473	7369	7259	7140	6998
PT30	17.5	16.4	15.4	14.2	13.1	12.7	12.3	11.0
TT4	77.3	75.0	72.5	69.9	67.1	63.4	58.3	52.0
FF30	677	677	643	625	612	599	579	545
TT4	1072	1044	1036	1019	1001	977	951	919
BYP	6.8	12.7	13.1	12.6	12.0	11.3	10.3	9.2
FAN	13.5	13.8	13.7	13.4	12.3	11.9	11.6	11.1
TT9	1695	1617	1538	1456	1381	1305	1228	1152
TTD	673	657	641	625	612	604	595	585
WA3/WAP	0.0332	0.0325	0.0318	0.0311	0.0304	0.0298	0.0292	0.0284
WFMR	1778	1732	1696	1656	1618	1575	1533	1491
VDUCT	1160	1146	1135	1119	1107	1094	1081	1062
AJCOE	5.21	5.20	5.21	5.21	5.19	5.21	5.21	5.21
AJCOD	5.16	5.38	5.08	5.99	4.27	4.27	4.27	4.27

SEP 30, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS. DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MO	0.90	PAR	3.3	PT2	5.6	WBL4	0.	
VS CTS	516	TAN	390	TT2	433	HPEXT	0.	
PART PWR								
[illegible]	5213	4440	3735	3087	2406	1880	1540	862
FGT	11456	10400	9424	8516	7635	6757	5919	5137
WAT	231	220	210	200	191	180	169	158
BPT	4837	4171	3593	3073	2594	2169	1807	1500
TSFC	0.928	0.939	0.962	0.995	1.052	1.154	1.349	1.760
BPR	1.70	1.75	1.78	1.82	1.37	1.91	1.95	1.99
WAT2	570	545	520	495	472	446	418	391
[illegible]	4722	4545	4396	4245	4087	3915	3718	3464
N2	6842	6685	6514	6332	6137	5932	5734	5567
PT3D	11.3	10.9	10.4	9.9	9.4	8.9	8.3	7.7
PT4	46.6	42.6	39.1	35.8	32.8	29.4	26.3	23.3
[illegible]	576	567	559	551	543	533	524	513
TT4	889	865	842	819	793	771	746	719
PT9	8.3	7.4	5.8	6.2	5.6	5.2	4.8	4.4
PT9	10.7	10.2	9.7	9.3	8.9	8.3	7.8	7.3
TT9	1378	1302	1227	1152	1080	1011	946	885
TTD	576	568	559	551	542	533	523	514
WAS/WAP	0.0278	0.0271	0.0265	0.0260	0.0254	0.0248	0.0243	0.0237
[illegible]	1649	1604	1558	1511	1365	1216	1072	939
VDUCT	1073	1066	1058	1051	1042	1034	1024	1014
AJCOE	5.20	5.21	5.21	5.20	5.20	5.20	5.21	5.21
AJCOD	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MO	0.90	PAR	3.3	PT2	5.6	WBL4	0.	
VS CTS	516	TAN	390	TT2	433	HPEXT	0.	
PART PWR								
[illegible]	640							
FGT	4777							
WAT	153							
BPT	1363							
TSFC	2.109							
BPR	2.02							
WAT2	377							
[illegible]	3327							
N2	5483							
PT3D	7.5							
PT4	21.9							
[illegible]	500							
TT4	706							
PT9	4.3							
PT9	7.0							
TT9	856							
TTD	508							
WAS/WAP	0.0254							
[illegible]	877							
VDUCT	1008							
AJCOE	5.20							
AJCOD	4.27							

SEP 30, 1964

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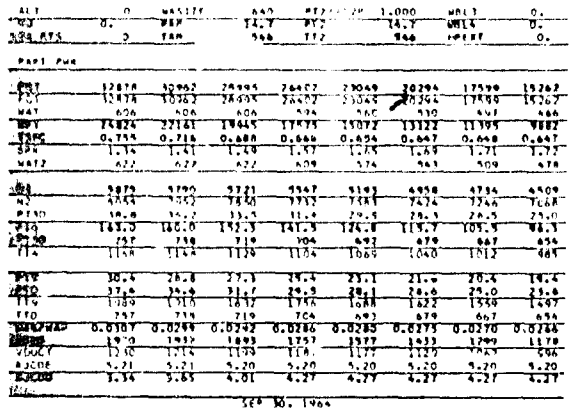
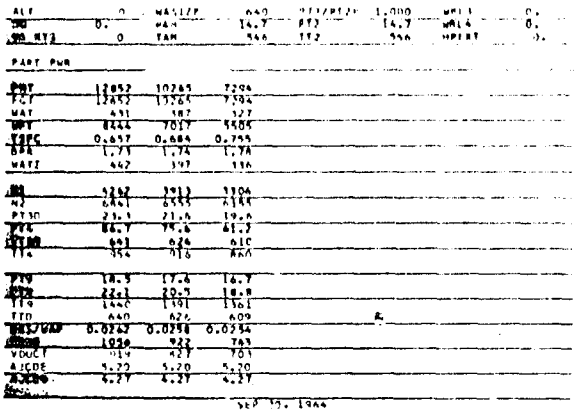
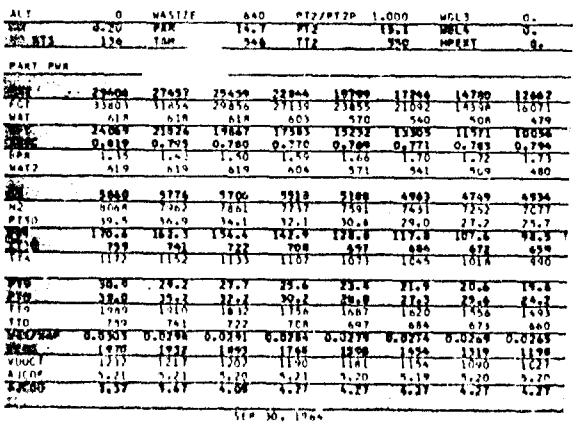
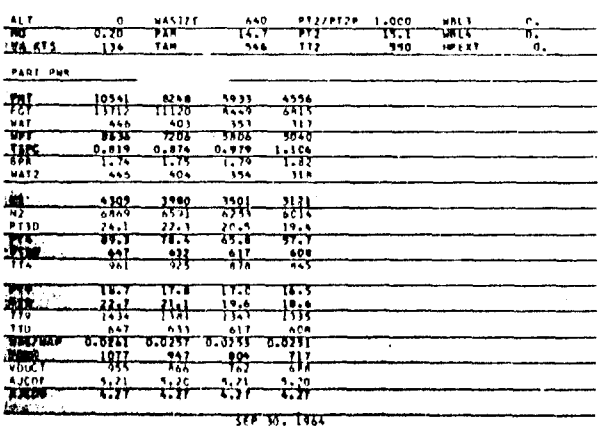
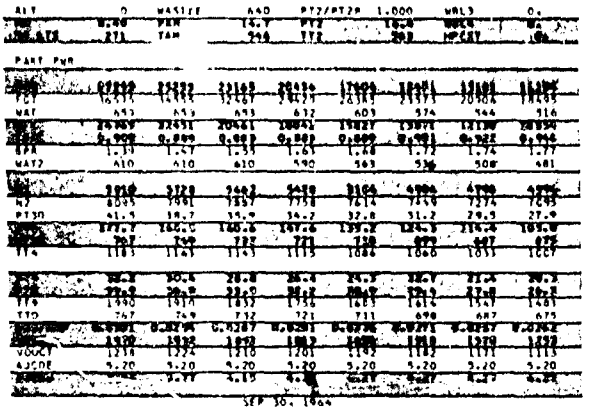
DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

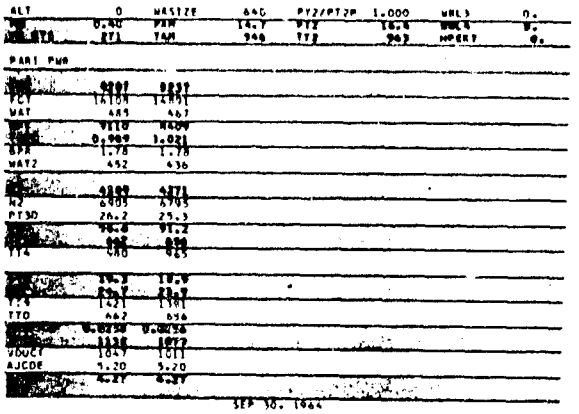












ALT	5000	WASIZE	640	PT2/PT2P	1.000	WBL1	0.
MN	0.60	PAR	12.2	PT2	17.6	WBL4	0.
VR KTS	400	TAM	528	TT2	582	WPERT	0.

PART PWR

FNT	26110	24509	22829	20915	18169	15773	13594	11594
FCT	23454	22024	20508	18815	17674	16085	14727	14018
WAT	511	511	511	509	501	475	447	421
WFT	21774	19937	17849	15881	13700	11808	10110	8994
TSFC	0.815	0.789	0.773	0.760	0.754	0.754	0.760	0.772
ABR	1.137	1.143	1.128	1.101	1.062	1.026	1.171	1.274
WAT2	531	511	531	529	523	502	530	490
N1	5909	5815	5706	5660	5513	5031	4806	4592
N2	8013	7916	7816	7756	7567	7414	7263	7262
PT30	24.7	21.8	20.5	27.6	20.4	25.1	21.6	22.2
PT4	169.1	162.6	156.9	150.2	134.8	104.2	96.8	86.5
TT30	746	727	709	691	682	670	657	649
TT4	1159	1136	1117	1098	1067	1031	1001	978
PT9	27.0	25.7	24.4	22.9	20.2	18.0	17.8	16.8
PT5	32.9	30.9	28.0	25.8	24.8	23.6	22.2	20.9
TT5	1330	1311	1293	1265	1251	1214	1206	1185
TT9	766	727	709	694	682	671	658	644
WAS/WAP	0.0111	0.0101	0.0096	0.0086	0.0080	0.0077	0.0072	0.0068
WF30	1970	1932	1894	1856	1805	1721	1680	1649
VDUCT	1321	1296	1271	1179	1164	1156	1115	1349
AJCOR	5.21	5.21	5.20	5.21	5.20	5.21	5.20	5.21
AJCOR	5.28	5.58	5.93	6.27	6.27	6.27	6.27	6.27

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ALT	5000	WASIZE	640	PT2/PT2P	1.000	WBL1	0.
MN	0.60	PAR	12.2	PT2	17.6	WBL4	0.
VR KTS	400	TAM	528	TT2	582	WPERT	0.

PART PWR

FNT	9800	7812	5921	3785				
FCT	12558	10447	8171	5663				
WAT	396	361	322	264				
WFT	7726	6325	5336	4121				
TSFC	0.748	0.825	0.901	1.089				
ABR	1.76	1.79	1.77	1.57				
WAT2	466	428	391	316				
N1	4369	4106	3704	3069				
N2	6881	6618	6357	5814				
PT30	20.8	19.4	17.8	16.1				
PT4	78.9	70.1	60.3	48.0				
TT30	632	619	605	588				
TT4	944	914	875	814				
PT9	14.8	13.7	12.7	11.7				
PT5	19.7	18.1	16.9	15.4				
TT5	1423	1380	1332	1275				
TT9	637	620	603	588				
WAS/WAP	0.0235	0.0209	0.0184	0.0151				
WF30	1129	1004	866	706				
VDUCT	982	902	804	676				
AJCOR	5.21	5.20	5.21	5.20				
AJCOR	6.27	6.27	6.27	6.27				

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ALT	5000	WASIZE	640	PT2/PT2P	1.000	WBL1	0.
MN	0.40	PAR	12.2	PT2	13.7	WBL4	0.
VR KTS	267	TAM	528	TT2	549	WPERT	0.

PART PWR

FNT	24485	22761	20966	18811	16315	14161	12096	10286
FCT	22181	20649	19065	17451	15699	14111	12435	10709
WAT	506	506	506	494	477	502	476	451
WFT	22009	19989	18242	16264	14169	12373	10780	9388
TSFC	0.899	0.879	0.870	0.865	0.867	0.874	0.891	0.913
ABR	1.34	1.42	1.49	1.57	1.65	1.70	1.74	1.76
WAT2	622	622	622	611	582	554	525	497
N1	3814	3701	3727	3560	3261	3035	2836	2642
N2	6061	5965	5863	5726	5586	5456	5257	5082
PT30	36.1	33.6	31.1	29.3	28.2	26.9	25.5	24.0
PT4	156.3	148.8	141.6	131.9	119.5	106.5	100.2	92.0
TT30	759	736	718	704	694	683	672	660
TT4	1167	1147	1128	1103	1072	1044	1017	991
PT9	28.3	26.6	25.4	23.6	21.9	19.7	18.6	17.5
PT5	34.7	32.1	29.6	27.5	26.2	25.2	24.0	22.6
TT5	1343	1311	1283	1245	1241	1209	1242	1476
TT9	755	736	718	704	695	684	671	661
WAS/WAP	0.0187	0.0180	0.0285	0.0286	0.0288	0.0275	0.0270	0.0265
WF30	1972	1932	1893	1854	1732	1578	1436	1307
VDUCT	1273	1251	1228	1147	1173	1169	1150	1131
AJCOR	5.21	5.21	5.20	5.21	5.21	5.21	5.20	5.20
AJCOR	5.15	5.66	6.02	6.27	6.27	6.27	6.27	6.27

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ALT	5000	WASIZE	640	PT2/PT2P	1.000	WBL1	0.
MN	0.40	PAR	12.2	PT2	13.7	WBL4	0.
VR KTS	267	TAM	528	TT2	549	WPERT	0.

PART PWR

FNT	8890	6937	5211	3586	2036			
FCT	10529	12435	10784	8111	5339			
WAT	425	397	342	323	277			
WFT	7133	6931	5761	4658	3658			
TSFC	0.965	0.999	1.106	1.300	1.771			
ABR	1.78	1.79	1.82	1.87	1.91			
WAT2	469	438	400	357	304			
N1	4425	4214	3891	3467	2935			
N2	6958	6651	6431	6141	5745			
PT30	22.6	21.2	19.6	18.1	16.6			
PT4	84.2	76.3	67.8	57.8	46.5			
TT30	668	655	621	607	593			
TT4	954	930	901	859	808			
PT9	16.5	15.8	15.0	14.2	13.2			
PT5	21.3	20.0	18.5	17.2	15.9			
TT5	1412	1353	1302	1256	1217			
TT9	668	655	621	607	593			
WAS/WAP	0.0260	0.0256	0.0252	0.0249	0.0244			
WF30	1186	1067	937	801	663			
VDUCT	1069	1030	984	924	856			
AJCOR	5.20	5.20	5.20	5.21	5.21			
AJCOR	6.27	6.27	6.27	6.27	6.27			

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ALT	5000	WASIZE	640	PT2/PT2P	1.000	WBL1	0.
MN	0.60	PAR	12.2	PT2	19.6	WBL4	0.
VR KTS	400	TAM	528	TT2	566	WPERT	0.

PART PWR

FNT	22482	21796	19882	17623	15268	13852	11345	9435
FCT	17455	16771	15745	14460	13255	12419	10117	20137
WAT	618	618	618	596	572	548	525	500
WFT	23278	21061	19726	16927	14529	13251	11558	10086
TSFC	0.983	0.966	0.967	0.971	0.979	0.993	1.017	1.067
ABR	1.60	1.64	1.56	1.44	1.69	1.71	1.76	1.79
WAT2	609	609	609	586	563	540	516	492
N1	3797	3717	3691	3493	3195	2823	2870	2699
N2	6646	6583	6584	6341	6115	5859	5766	5712
PT30	19.1	18.5	17.9	17.4	16.1	15.1	13.7	12.3
PT4	167.2	158.9	151.1	138.2	127.8	118.4	104.5	101.2
TT30	765	729	712	693	715	703	675	695
TT4	1164	1144	1145	1116	1090	1065	1040	1018
PT9	28.3	26.6	25.4	24.7	23.7	21.8	19.6	18.9
PT5	31.6	29.8	27.9	26.5	25.5	24.2	21.9	23.7
TT5	1348	1311	1285	1246	1243	1205	1151	1444
TT9	769	750	733	726	715	704	694	685
WAS/WAP	0.0181	0.0176	0.0169	0.0151	0.0135	0.0119	0.0104	0.0091
WF30	1973	1932	1892	1853	1810	1672	1532	1392
VDUCT	1319	1295	1271	1201	1149	1146	1178	1130
AJCOR	5.20	5.20	5.20	5.21	5.21	5.20	5.20	5.20
AJCOR	5.48	5.88	6.18	6.27	6.27	6.27	6.27	6.27

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ALT	5000	WASIZE	640	PT2/PT2P	1.000	WBL1	0.
MN	0.60	PAR	12.2	PT2	19.6	WBL4	0.
VR KTS	400	TAM	528	TT2	566	WPERT	0.

PART PWR

FNT	7940							
FCT	17932							
WAT	475							
WFT	8729							
TSFC	1.096							
ABR	1.81							
WAT2	467							
N1	4389							
N2	6975							
PT30	23.9							
PT4	97.8							
TT30	672							
TT4	984							
PT9	17.4							
PT5	20.8							
TT5	1398							
TT9	671							
WAS/WAP	0.0237							
WF30	1275							
VDUCT	1160							
AJCOR	5.20							
AJCOR	6.27							

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	15000	WAS1/E		440	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAM		6.3	PT2	10.6	WBL4	0.
VA KTS	587	TAM		492	TT2	328	WPERT	0.

PART PWR

FNT	18765	17462	16108	14939	12635	10923	9478	8093
FGT	33501	32258	29581	27915	25937	23261	21321	19256
WAT	633	633	633	633	633	469	592	574
WFT	17394	16468	14830	13552	11745	10257	8896	7838
TSFC	0.959	0.962	0.933	0.928	0.929	0.937	0.967	0.930
BPR	1.19	1.19	1.24	1.25	1.30	1.61	1.75	1.76
WAT2	634	534	634	629	600	533	569	523
N1	9215	8862	8727	8468	8259	8093	6926	6751
N2	7994	7895	7746	7596	7454	7407	7351	7270
PT30	28.1	26.9	25.0	23.5	22.3	21.6	20.8	19.8
EGT	136.5	130.9	119.4	109.8	94.2	84.5	83.6	76.8
TT30	761	727	706	698	675	670	661	651
TT4	1190	1161	1112	1092	1059	1043	1006	981
PT9	29.9	31.8	30.8	29.5	27.5	25.8	24.6	23.5
PTD	27.6	29.7	28.6	27.8	25.6	24.1	23.6	22.6
TT9	1441	1413	1406	1376	1327	1305	1263	1247
TTD	761	727	706	698	675	670	661	651
WAS/WAP	0.0612	0.0606	0.0597	0.0592	0.0584	0.0578	0.0577	0.0567
VENG	1971	1933	1894	1859	1819	1775	1742	1719
VDUCT	1217	1202	1187	1174	1165	1157	1150	1141
AJCDE	5.20	5.21	5.20	5.21	5.21	5.20	5.21	5.20
AJCD0	5.30	5.59	5.01	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WAS1/E		440	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAM		6.3	PT2	10.6	WBL4	0.
VA KTS	587	TAM		492	TT2	328	WPERT	0.

PART PWR

FNT	6823	5586	4994					
FGT	14613	13470	11933					
WAT	337	337	337					
WFT	4807	4465	4199					
TSFC	1.090	1.096	1.081					
BPR	1.79	1.83	1.84					
WAT2	498	471	454					
N1	6579	6386	6289					
N2	6976	6719	6611					
PT30	17.0	15.7	14.7					
EGT	76.5	69.8	60.8					
TT30	661	629	623					
TT4	956	910	917					
PT9	13.9	11.9	11.6					
PTD	13.7	11.7	11.2					
TT9	1358	1322	1295					
TTD	661	629	623					
WAS/WAP	0.0262	0.0254	0.0247					
VENG	1383	1252	1189					
VDUCT	1132	1113	1117					
AJCDE	5.20	5.21	5.20					
AJCD0	4.27	4.27	4.27					

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ALT	15000	WAS1/E		440	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAM		6.3	PT2	12.6	WBL4	0.
VA KTS	515	TAM		492	TT2	444	WPERT	0.

PART PWR

FNT	19004	17493	15976	13943	12209	10664	9244	7312
FGT	37440	35129	32612	29414	27104	25014	22802	20115
WAT	512	512	512	495	474	454	439	427
WFT	19541	17746	16181	14238	12510	11034	9727	8540
TSFC	1.028	1.015	1.011	1.017	1.025	1.055	1.092	1.079
BPR	1.38	1.46	1.54	1.72	1.84	1.73	1.76	1.79
WAT2	615	615	615	595	570	549	527	507
N1	5826	5768	5681	5642	5205	5043	4907	4765
N2	8044	7959	7859	7728	7585	7437	7275	7108
PT30	32.1	30.2	28.0	26.6	25.7	24.8	23.9	22.9
EGT	139.3	132.7	126.3	115.7	106.3	98.5	91.9	85.2
TT30	759	742	725	712	704	693	687	679
TT4	1175	1154	1136	1107	1079	1055	1037	1009
PT9	29.3	25.9	22.6	20.7	18.9	17.4	16.1	14.9
PTD	31.0	28.7	26.4	25.0	24.2	23.2	22.5	21.6
TT9	1492	1412	1331	1268	1241	1204	1157	1092
TTD	759	742	725	712	705	696	688	679
WAS/WAP	0.0303	0.0296	0.0289	0.0281	0.0278	0.0272	0.0267	0.0262
VENG	1971	1933	1894	1859	1819	1775	1733	1669
VDUCT	1233	1218	1204	1193	1187	1180	1173	1165
AJCDE	5.20	5.21	5.21	5.20	5.20	5.21	5.21	5.20
AJCD0	5.49	5.96	4.13	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WAS1/E		440	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAM		6.3	PT2	12.6	WBL4	0.
VA KTS	515	TAM		492	TT2	444	WPERT	0.

PART PWR

FNT	6650	5618	4262	3181	2201	1317	905	
FGT	13947	12625	11102	10133	9178	8121	7211	
WAT	425	386	366	365	325	304	291	
WFT	7451	6346	5456	4594	3822	3115	2567	
TSFC	1.117	1.180	1.279	1.444	1.737	2.366	3.080	
BPR	1.83	1.86	1.89	1.92	1.96	2.03	2.04	
WAT2	496	463	460	435	390	365	352	
N1	4814	4667	4274	4064	3808	3516	3348	
N2	6830	6760	6546	6385	6196	5941	5678	
PT30	22.0	21.0	19.8	19.7	17.8	16.4	15.9	
EGT	78.7	72.3	66.1	60.6	54.1	49.9	46.7	
TT30	670	660	649	638	627	615	610	
TT4	985	961	936	910	882	849	832	
PT9	13.8	12.9	12.1	11.4	10.8	10.3	10.0	
PTD	20.7	19.7	18.7	17.6	16.5	15.5	15.0	
TT9	1174	1102	1027	1116	1112	1072	1045	
TTD	670	660	649	638	627	615	610	
WAS/WAP	0.0258	0.0255	0.0248	0.0244	0.0240	0.0236	0.0232	
VENG	1507	1368	1238	1111	990	869	800	
VDUCT	1154	1149	1144	1139	1132	1098	1068	
AJCDE	5.20	5.21	5.20	5.20	5.20	5.20	5.21	
AJCD0	4.27	4.27	4.27	4.27	4.27	4.27	4.27	

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ALT	15000	WAS1/E		440	PT2/PT2P	1.000	WBL3	0.
MN	0.90	PAM		6.3	PT2	14.0	WBL4	0.
VA KTS	580	TAM		492	TT2	492	WPERT	0.

PART PWR

FNT	19291	17812	17229	15929	17232	19877	9962	7231
FGT	35903	34114	32644	29980	27602	25470	23508	21215
WAT	549	549	549	525	509	486	468	452
WFT	20581	18681	16815	14976	13070	11946	10205	8461
TSFC	1.095	1.097	1.095	1.091	1.093	1.091	1.107	1.138
BPR	1.41	1.51	1.60	1.66	1.71	1.75	1.77	1.81
WAT2	604	604	604	577	496	535	515	497
N1	5764	5698	5630	5552	5173	5025	4893	4762
N2	8092	7996	7884	7754	7604	7440	7280	7118
PT30	34.1	32.1	29.8	28.8	27.8	26.9	25.9	25.0
EGT	146.7	139.6	132.4	121.2	112.2	104.6	97.6	90.8
TT30	771	754	737	729	719	711	702	693
TT4	1159	1138	1118	1118	1094	1070	1048	1025
PT9	26.6	24.5	23.7	21.6	20.8	18.6	17.1	15.8
PTD	33.3	30.7	28.1	27.1	26.2	25.2	24.3	23.2
TT9	1441	1378	1315	1268	1248	1204	1161	1091
TTD	771	754	737	729	719	711	702	693
WAS/WAP	0.0298	0.0292	0.0286	0.0278	0.0274	0.0268	0.0263	0.0258
VENG	1972	1782	1875	1858	1818	1772	1733	1679
VDUCT	1241	1228	1215	1206	1196	1191	1186	1178
AJCDE	5.20	5.21	5.21	5.20	5.20	5.21	5.21	5.21
AJCD0	5.59	5.86	4.27	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WAS1/E		440	PT2/PT2P	1.000	WBL3	0.
MN	0.90	PAM		6.3	PT2	14.0	WBL4	0.
VA KTS	580	TAM		492	TT2	492	WPERT	0.

PART PWR

FNT	6922	5409	4233	3153	2167	1300		
FGT	14967	13061	11687	10445	9179	8114		
WAT	434	414	396	376	359	336		
WFT	7747	6726	5736	4819	4039	3311		
TSFC	1.172	1.242	1.355	1.515	1.861	2.546		
BPR	1.85	1.88	1.92	1.98	2.05	2.06		
WAT2	478	457	436	413	391	369		
N1	4819	4672	4311	4115	3878	3623		
N2	6941	6757	6569	6393	6217	6021		
PT30	24.0	21.0	21.9	20.7	19.6	18.5		
EGT	84.1	77.6	71.1	64.9	58.8	53.0		
TT30	697	678	668	658	647	636		
TT4	1002	972	954	928	907	876		
PT9	14.7	13.6	12.7	11.9	11.2	10.7		
PTD	22.6	21.5	20.5	19.5	18.6	17.6		
TT9	1376	1305	1236	1172	1107	1044		
TTD	687	678	667	658	647	636		
WAS/WAP	0.0255	0.0250	0.0246	0.0241	0.0237	0.0232		
VENG	1588	1440	1309	1179	1052	916		
VDUCT	1173	1164	1155	1147	1140	1128		
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20		
AJCD0	4.27	4.27	4.27	4.27	4.27	4.27		

SEP 30, 1964

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAR	3.3	PT2	5.8	WBLR	0.
VR KTS	336	TAM	417	TT2	447	WPEXT	0.

PART PWR

FNT	9166	8864	8198	7359	7178	6514	5719	4862
FGT	13534	13196	12764	11962	11800	10740	9311	8245
WAT	211	213	211	211	207	201	192	182
SFT	8983	7354	6601	6749	6193	5964	4841	4115
TSFC	0.913	0.897	0.868	0.873	0.863	0.852	0.868	0.869
BPR	1.33	1.36	1.40	1.44	1.47	1.54	1.76	1.86
WAT2	665	656	606	636	626	655	627	526

N1	6136	6092	6006	6023	5837	5556	5226	4902
N2	7961	7918	7891	7858	7758	7548	7263	6916
PT30	12.3	12.1	11.9	10.5	9.7	9.3	7.7	6.9
PT4	48.0	46.3	44.9	42.3	40.2	47.2	42.9	38.2
TT30	628	623	628	612	602	576	544	519
TT4	1057	1033	1022	1006	996	981	955	920

PT9	18.6	18.3	18.8	8.4	8.0	8.4	7.6	6.7
PT0	12.5	12.2	10.9	9.6	9.2	9.0	8.1	8.1
TT9	1370	1351	1312	1291	1265	1234	1183	1127
TT0	959	953	928	917	904	906	906	874
WAS/WAP	0.0331	0.0326	0.0317	0.0318	0.0306	0.0296	0.0291	0.0283
WFMC	1981	1922	1883	1842	1809	1761	1719	1677
VDUCT	1154	1134	1121	1107	1094	1080	1061	1039
AJCOF	5.21	5.21	5.21	5.21	5.20	5.21	5.21	5.21
AJCOO	3.23	3.49	3.72	4.10	4.27	4.27	4.27	4.27

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAR	3.3	PT2	5.8	WBLR	0.
VR KTS	336	TAM	417	TT2	447	WPEXT	0.

PART PWR

FNT	9092	8833	8237	7578	7358	6744	5965	5177
FGT	13518	13196	12726	11962	11763	10743	9313	8241
WAT	211	214	213	211	207	201	192	182
SFT	8923	8328	7488	6749	6393	5964	4841	4115
TSFC	0.910	0.890	0.863	0.873	0.863	0.852	0.868	0.869
BPR	1.33	1.36	1.40	1.44	1.47	1.54	1.76	1.86
WAT2	665	656	606	636	626	655	627	526

N1	6063	6026	5971	5972	5790	5506	5178	4855
N2	7901	7858	7831	7798	7698	7488	7203	6856
PT30	12.3	12.1	11.9	10.5	9.7	9.3	7.7	6.9
PT4	48.0	46.3	44.9	42.3	40.2	47.2	42.9	38.2
TT30	628	623	628	612	602	576	544	519
TT4	1057	1033	1022	1006	996	981	955	920

PT9	18.6	18.3	18.8	8.4	8.0	8.4	7.6	6.7
PT0	12.5	12.2	10.9	9.6	9.2	9.0	8.1	8.1
TT9	1370	1351	1312	1291	1265	1234	1183	1127
TT0	959	953	928	917	904	906	906	874
WAS/WAP	0.0331	0.0326	0.0317	0.0318	0.0306	0.0296	0.0291	0.0283
WFMC	1981	1922	1883	1842	1809	1761	1719	1677
VDUCT	1154	1134	1121	1107	1094	1080	1061	1039
AJCOF	5.21	5.21	5.21	5.21	5.20	5.21	5.21	5.21
AJCOO	3.23	3.49	3.72	4.10	4.27	4.27	4.27	4.27

SEP 30, 1964

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAR	3.3	PT2	5.8	WBLR	0.
VR KTS	336	TAM	417	TT2	470	WPEXT	0.

PART PWR

FNT	9619	9015	8368	7612	6786	5831	4942	4227
FGT	14021	14037	13539	13415	12441	11224	10051	8769
WAT	241	241	241	236	229	217	205	196
SFT	9220	8544	7418	7055	6265	5389	4617	4000
TSFC	0.957	0.948	0.917	0.925	0.924	0.924	0.934	0.946
BPR	1.16	1.19	1.23	1.27	1.31	1.41	1.64	1.74
WAT2	673	671	673	691	656	606	574	548

N1	6029	5986	5951	5765	5459	5142	4843	4559
N2	7810	7806	7784	7684	7387	7148	7001	6843
PT30	14.2	13.2	12.2	11.5	11.1	10.7	10.3	9.9
PT4	65.1	62.8	60.4	57.4	53.0	47.6	42.7	38.0
TT30	672	655	639	627	618	608	599	590
TT4	1044	1027	1010	1015	995	958	929	902

PT9	11.8	11.4	10.9	10.3	9.4	8.4	7.5	6.8
PT0	13.7	12.6	11.5	10.8	10.4	10.1	9.7	9.3
TT9	1914	1890	1761	1641	1602	1530	1456	1380
TT0	672	655	639	627	618	608	593	590
WAS/WAP	0.0320	0.0313	0.0306	0.0300	0.0293	0.0286	0.0279	0.0273
WFMC	1936	1847	1857	1817	1778	1735	1693	1650
VDUCT	1160	1145	1131	1121	1112	1103	1095	1087
AJCOF	5.21	5.21	5.20	5.20	5.20	5.21	5.20	5.21
AJCOO	3.42	3.70	4.07	4.27	4.27	4.27	4.27	4.27

SEP 30, 1964

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAR	3.3	PT2	5.8	WBLR	0.
VR KTS	336	TAM	417	TT2	470	WPEXT	0.

PART PWR

FNT	9285	2997	2418	1971	1398	911	518	329
FGT	8751	7441	6651	5861	5104	4196	3737	3415
WAT	187	179	170	160	150	140	130	124
SFT	3445	2986	2541	2147	1806	1513	1258	1139
TSFC	0.967	1.000	1.051	1.149	1.322	1.660	2.440	3.498
BPR	1.28	1.21	1.20	1.19	1.19	1.19	2.04	2.16
WAT2	424	400	424	448	420	391	362	347

N1	4597	4358	4189	4008	3800	3533	3225	3045
N2	6693	6487	6306	6151	5988	5726	5513	5397
PT30	9.4	9.0	8.5	8.0	7.5	7.0	6.5	6.2
PT4	36.9	35.0	30.0	27.1	24.3	21.6	18.8	17.4
TT30	582	574	565	555	544	532	521	515
TT4	879	856	832	807	781	746	722	705

PT9	6.3	5.8	5.4	4.8	4.3	4.3	4.1	3.9
PT0	8.2	8.5	8.0	7.6	7.3	6.3	6.1	5.9
TT9	1304	1230	1159	1092	1029	969	914	888
TT0	593	574	565	555	561	532	522	515
WAS/WAP	0.0268	0.0262	0.0256	0.0251	0.0246	0.0240	0.0235	0.0232
WFMC	1025	1004	1226	1192	1027	930	802	760
VDUCT	1080	1072	1063	1054	1043	1032	1007	973
AJCOF	5.21	5.20	5.20	5.21	5.20	5.20	5.21	5.20
AJCOO	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27

SEP 30, 1964

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAR	3.3	PT2	5.8	WBLR	0.
VR KTS	336	TAM	417	TT2	447	WPEXT	0.

PART PWR

FNT	10018	9220	8344	7760	6729	5753	4843	4236
FGT	17212	16941	15855	14852	13521	12169	11260	10042
WAT	259	259	259	253	242	229	218	209
SFT	9838	9092	8255	7448	6491	5549	4815	4188
TSFC	0.782	0.779	0.782	0.796	0.828	0.865	0.875	0.908
BPR	1.35	1.43	1.49	1.49	1.57	1.66	1.72	1.77
WAT2	663	661	667	646	618	586	559	535

N1	5972	5923	5890	5834	5587	5219	4779	4441
N2	7749	7668	7590	7444	7211	7068	7018	6851
PT30	13.4	13.2	12.1	12.4	12.1	11.6	11.1	10.7
PT4	70.1	67.6	64.8	60.9	55.1	48.3	44.0	41.6
TT30	642	627	621	609	630	620	612	603
TT4	1084	1067	1051	1028	998	960	939	916

PT9	12.7	12.2	11.6	10.9	9.8	8.8	7.9	7.3
PT0	15.7	15.3	14.2	13.1	13.2	12.7	12.2	12.1
TT9	1717	1693	1660	1648	1606	1552	1496	1456
TT0	655	647	641	640	630	620	612	604
WAS/WAP	0.0316	0.0309	0.0302	0.0296	0.0289	0.0282	0.0276	0.0270
WFMC	1952	1827	1837	1817	1778	1733	1693	1652
VDUCT	1170	1155	1141	1132	1123	1114	1107	1100
AJCOF	5.21	5.19	5.20	5.20	5.21	5.20	5.20	5.21
AJCOO	3.48	3.77	4.16	4.27	4.27	4.27	4.27	4.27

SEP 30, 1964

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MN	0.80	PAR	3.3	PT2	5.8	WBLR	0.
VR KTS	336	TAM	417	TT2	447	WPEXT	0.

PART PWR

FNT	9521	2998	2417	1979	1393	903	497	
FGT	9200	8361	7534	6713	5922	5193	4850	
WAT	220	197	183	173	161	151	149	
SFT	3636	3131	2685	2267	1887	1574	1442	
TSFC	1.015	1.048	1.107	1.198	1.355	1.769	2.068	
BPR	1.30	1.34	1.38	1.42	1.92	2.00	2.02	
WAT2	512	491	468	443	418	392	379	

N1	4288	4037	3781	3537	3242	2929	2647	
N2	6684	6504	6314	6115	5923	5761	5680	
PT30	10.2	9.8	9.3	8.8	8.3	7.8	7.5	
PT4	38.2	35.2	32.1	29.1	26.3	23.5	22.2	
TT30	536	508	479	450	420	390	365	
TT4	845	810	769	727	678	631	607	

PT9	6.7	6.1	5.6	5.1	4.8	4.3	4.1	
PT0	8.8	8.8	8.5	8.2	7.8	6.8	6.6	
TT9	1165	1108	1048	1040	1027	985	958	
TT0	596	587	579	569	555	530	544	
WAS/WAP	0.0300	0.0293	0.0286	0.0278	0.0270	0.0258	0.0258	
WFMC	1688	1583	1507	1434	1330	1186	989	
VDUCT	1092	1084	1077	1068	1058	1049	1044	
AJCOF	5.21	5.20	5.20	5.20	5.20	5.21	5.20	
AJCOO	4.22	4.27	4.27	4.27	4.27	4.27	4.27	

SEP 30, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

PERFORMANCE WITH FAN AIRBLEED AND NO POWER EXTRACTION

Pages	T_{AMB}	Power Setting	Flow Schedule
B-D49A	STD. Day	Take-Off	Base
B-D50 to B-D57	STD. Day	Max Thrust	Base
B-D58 to B-D59	STD. Day	Max Thrust	High
B-D60 to B-D61	STD. Day	Max Thrust	Low
B-D62 to B-D63	STD. Day	Cruise	Base
B-D64 to B-D65	STD. Day	Cruise	High
B-D66 to B-D67	STD. Day	Cruise	Low
B-D68 to B-D72	STD. Day	Part Power	Base

ALT	0	MASIZE	64C	PT2/PT2P	1.000	MBL3	3.00	
MU	0.	PAM	14.7	PT2	14.7	MBL4	0.	
VA KTS	0	TAM	519	TT2	519	HPEXT	0.	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
ENT	55701	52459	50936	49352	47703	45956	41350	35934
EGT	55701	52452	50936	49352	47703	45956	41350	35934
WAT	640	640	640	640	640	640	640	640
WFT	131114	81493	76169	66910	60288	53992	40334	21221
TSFC	1.417	1.362	1.456	1.356	1.266	1.175	0.975	0.758
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	640	640	640	640	640	640	640	640
N1	5037	5307	5437	5307	5307	5307	5307	5454
N2	7949	7949	7949	7949	7949	7949	7949	8003
PT3D	39.7	39.7	39.7	39.7	39.7	39.7	39.7	41.5
PT4	174.6	174.6	174.6	174.6	174.6	174.6	174.6	184.9
TT3D	726	726	726	726	726	726	726	739
TT4	1124	1124	1124	1124	1124	1124	1124	1143
PT9	31.7	31.7	31.7	31.7	31.7	31.7	31.7	32.9
PTD	35.4	36.1	36.4	36.6	36.5	37.1	37.6	40.1
TT9	1484	1489	1488	1989	1989	1989	1989	1988
TTD	3560	3000	2750	2500	2250	2000	1408	739
WAS/WAP	0.0471	0.0444	0.0432	0.0419	0.0406	0.0392	0.0358	0.0319
VENG	1970	1970	1970	1970	1970	1970	1970	1970
VDUCT	2617	2407	2307	2203	2093	1976	1667	1216
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.95	7.83	7.58	6.93	6.45	6.03	4.90	3.17

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ALT	0	MASIZE	64C	PT2/PT2P	1.000	MBL3	3.00	
MU	0.20	PAM	14.7	PT2	15.1	MBL4	0.	
VA KTS	132	TAM	519	TT2	523	HPEXT	0.	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
ENT	52931	49679	47905	46265	44667	42762	38036	32671
EGT	57354	54067	52633	50757	49095	47290	42585	37060
WAT	651	651	651	651	651	651	651	651
WFT	98767	79969	72333	65730	58771	52990	39246	24479
TSFC	1.869	1.616	1.512	1.410	1.319	1.236	1.033	0.835
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.29
WAT2	637	637	637	637	637	637	637	637
N1	5895	5895	5895	5895	5895	5895	5915	5969
N2	7998	7998	7998	7998	7998	7998	7998	8033
PT3D	40.4	40.4	40.4	40.4	40.4	40.4	40.4	42.1
PT4	177.6	177.6	177.6	177.6	177.6	177.6	177.6	188.0
TT3D	729	729	729	729	729	729	729	743
TT4	1132	1132	1132	1132	1132	1132	1132	1148
PT9	32.3	32.3	32.3	32.3	32.3	32.3	32.3	33.4
PTD	36.1	36.7	37.0	37.3	37.6	37.8	38.3	40.9
TT9	1989	1989	1989	1989	1989	1989	1989	1988
TTD	3560	3000	2750	2500	2250	2000	1411	744
WAS/WAP	0.0469	0.0443	0.0430	0.0418	0.0404	0.0391	0.0357	0.0316
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2307	2203	2093	1976	1668	1218
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.88	7.86	7.60	6.96	6.50	6.05	4.92	3.18

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ALT	0	MASIZE	64C	PT2/PT2P	1.000	MBL3	3.00	
MU	0.40	PAM	14.7	PT2	16.4	MBL4	0.	
VA KTS	269	TAM	519	TT2	535	HPEXT	0.	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
ENT	52922	49132	47402	45606	43738	41759	36662	30803
EGT	62612	59729	58992	55196	53328	51349	46252	40193
WAT	691	691	691	691	691	691	691	691
WFT	103900	83731	75896	68860	61490	54955	41029	27458
TSFC	1.767	1.709	1.601	1.459	1.406	1.316	1.119	0.897
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.31
WAT2	629	629	629	629	629	629	629	629
N1	5859	5859	5859	5856	5859	5859	5859	5913
N2	8026	8026	8026	8026	8026	8026	8026	8065
PT3D	42.7	42.7	42.7	42.7	42.7	42.7	42.7	44.7
PT4	186.3	186.3	186.3	186.3	186.3	186.3	186.3	196.1
TT3D	738	738	738	738	738	738	738	752
TT4	1144	1144	1144	1144	1144	1144	1144	1160
PT9	33.8	33.8	33.8	33.8	33.8	33.8	33.8	35.1
PTD	38.0	38.7	39.0	39.3	39.6	39.8	40.4	43.1
TT9	1988	1988	1988	1988	1988	1988	1988	1987
TTD	3560	3000	2750	2500	2250	2000	1419	752
WAS/WAP	0.0466	0.0438	0.0426	0.0413	0.0400	0.0386	0.0353	0.0310
VENG	1973	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1671	1226
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.99	7.96	7.70	7.04	6.58	6.12	4.99	3.23

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ALT	6000	MASIZE	64C	PT2/PT2P	1.000	MBL3	3.00	
MU	0.	PAM	11.8	PT2	11.8	MBL4	0.	
VA KTS	0	TAM	497	TT2	497	HPEXT	0.	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
ENT	47736	45011	43705	42348	40935	39439	35386	30657
EGT	47736	45011	43705	42348	40935	39439	35386	30657
WAT	536	536	536	536	536	536	536	536
WFT	82620	67021	60727	54869	49310	44621	33043	22494
TSFC	1.724	1.589	1.589	1.296	1.209	1.126	0.935	0.734
BPR	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28
WAT2	655	655	655	655	655	655	655	655
N1	5962	5962	5962	5962	5962	5962	5962	6004
N2	7935	7935	7935	7935	7935	7935	7935	7952
PT3D	33.3	33.3	33.3	33.3	33.3	33.3	33.3	34.9
PT4	146.8	146.8	146.8	146.8	146.8	146.8	146.8	152.2
TT3D	708	708	708	708	708	708	708	721
TT4	1105	1105	1105	1105	1105	1105	1105	1119
PT9	26.8	26.8	26.8	26.8	26.8	26.8	26.8	27.7
PTD	29.8	30.3	30.6	30.8	31.0	31.2	31.6	33.6
TT9	1990	1990	1990	1990	1990	1990	1990	1990
TTD	3560	3000	2750	2500	2250	2000	1391	721
WAS/WAP	0.0481	0.0454	0.0441	0.0428	0.0415	0.0401	0.0365	0.0321
VENG	1971	1971	1971	1971	1971	1971	1971	1970
VDUCT	2617	2407	2307	2203	2093	1976	1697	1201
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	8.77	7.74	7.52	6.87	6.42	5.97	4.82	3.11

OCT 4, 1964

ALT	6000	MASIZE	64C	PT2/PT2P	1.000	MBL3	3.00	
MU	0.20	PAM	11.8	PT2	12.1	MBL4	0.	
VA KTS	133	TAM	497	TT2	501	HPEXT	0.	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
ENT	45514	42634	41283	39882	38423	36879	32726	27853
EGT	49229	46149	44998	43597	42139	40596	36461	31568
WAT	567	567	567	567	567	567	567	567
WFT	82970	67204	60879	54990	49606	44493	33171	22517
TSFC	1.821	1.676	1.475	1.379	1.291	1.206	1.014	0.808
BPR	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28
WAT2	652	652	652	652	652	652	652	652
N1	5953	5953	5953	5953	5953	5953	5953	5994
N2	7943	7943	7943	7943	7943	7943	7943	7960
PT3D	34.0	34.0	34.0	34.0	34.0	34.0	34.0	35.6
PT4	149.6	149.6	149.6	149.6	149.6	149.6	149.6	155.2
TT3D	712	712	712	712	712	712	712	724
TT4	1109	1109	1109	1109	1109	1109	1109	1124
PT9	27.2	27.2	27.2	27.2	27.2	27.2	27.2	28.2
PTD	30.4	31.0	31.2	31.4	31.7	31.9	32.3	34.3
TT9	1989	1989	1989	1989	1989	1989	1989	1990
TTD	3560	3000	2750	2500	2250	2000	1395	724
WAS/WAP	0.0473	0.0452	0.0439	0.0426	0.0413	0.0399	0.0363	0.0319
VENG	1970	1970	1970	1970	1970	1970	1970	1970
VDUCT	2617	2407	2307	2203	2093	1976	1659	1203
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.77	7.76	7.51	6.87	6.42	5.97	4.83	3.12

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ALT	6000	MASIZE	64C	PT2/PT2P	1.000	MBL3	3.00	
MU	0.40	PAM	11.8	PT2	13.2	MBL4	0.	
VA KTS	253	TAM	497	TT2	513	HPEXT	0.	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
ENT	45654	42507	41026	39495	37904	36221	31765	26479
EGT	53525	50373	48897	47366	45775	44092	39636	34350
WAT	579	579	579	579	579	579	579	579
WFT	87333	70754	64057	57806	52104	46686	34839	23547
TSFC	1.913	1.665	1.561	1.466	1.375	1.289	1.097	0.889
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	644	644	644	644	644	644	644	644
N1	5918	5918	5918	5918	5918	5918	5918	5964
N2	7970	7970	7970	7970	7970	7970	7970	7983
PT3D	35.9	35.9	35.9	35.9	35.9	35.9	35.9	37.5
PT4	158.0	158.0	158.0	158.0	158.0	158.0	158.0	164.0
TT3D	721	721	721	721	721	721	721	734
TT4	1122	1122	1122	1122	1122	1122	1122	1137
PT9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	29.8
PTD	32.0	32.6	32.8	33.1	33.3	33.5	34.0	36.2
TT9	1990	1990	1990	1990	1990	1990	1990	1989
TTD	3560	3000	2750	2500	2250	2000	1403	734
WAS/WAP	0.0473	0.0447	0.0434	0.0421	0.0408	0.0394	0.0360	0.0316
VENG	1970	1970	1970	1970	1970	1970	1970	1970
VDUCT	2617	2407	2307	2203	2093	1976	1664	1211
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	8.85	7.83	7.59	6.94	6.49	6.03	4.89	3.16

OCT 4, 1964

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS DOD DIR 5200.10

ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.	PAM	14.7	PT2	14.7	WBL4	0.
VA KTS	0	TAM	519	TT2	519	HPEXT	0.

MAXTHR	MAX D/X					MIN D/H NOT LIT	
FNT	55701	52459	50936	49352	47703	45934	41350	35914
FGT	55701	52459	50936	49352	47703	45934	41350	35534
WAT	640	640	640	640	640	640	640	640
WFT	1311196	81953	74168	66910	60288	53992	40334	27221
TSFC	1.917	1.567	1.456	1.355	1.264	1.175	0.995	0.758
RPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	640	640	640	640	640	640	640	640
N1	5937	5907	5903	5907	5907	5907	5907	5914
N2	7989	7989	7989	7989	7989	7989	7989	8003
PT3D	39.7	39.7	39.7	39.7	39.7	39.7	39.7	41.5
PT4	174.6	174.6	174.6	174.6	174.6	174.6	174.6	181.9
TT3D	726	726	726	726	726	726	726	739
TT4	1128	1128	1128	1128	1128	1128	1128	1143
PT9	31.7	31.7	31.7	31.7	31.7	31.7	31.7	32.9
PTD	35.4	36.1	36.4	36.6	36.9	37.1	37.6	40.1
TT9	1989	1989	1989	1989	1989	1989	1989	1988
TTD	3560	3000	2750	2500	2250	2000	1408	739
WAS/WAP	0.0471	0.0444	0.0432	0.0419	0.0404	0.0392	0.0358	0.0315
VENG	1970	1970	1970	1970	1970	1970	1970	1970
VDUCT	2617	2407	2307	2203	2093	1976	1667	1216
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.41
AJCDD	8.85	7.83	7.38	6.93	6.48	5.03	4.90	3.17

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.20	PAM	14.7	PT2	15.1	WBL4	0.
VA KTS	132	TAM	515	TT2	523	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	52431	49479	47905	46265	44567	42782	38536	32471
FGT	52431	49479	47905	46265	44567	42782	38536	32471
WAT	651	651	651	651	651	651	651	651
WFT	98767	78469	72331	65233	58251	50716	33246	20422
TSFC	1.869	1.618	1.510	1.410	1.318	1.235	1.013	0.825
RPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.29
WAT2	647	647	647	647	647	647	647	647
N1	5895	5895	5895	5895	5895	5895	5895	5914
N2	7998	7998	7998	7998	7998	7998	7998	8003
PT3D	40.4	40.4	40.4	40.4	40.4	40.4	40.4	41.5
PT4	177.6	177.6	177.6	177.6	177.6	177.6	177.6	181.9
TT3D	729	729	729	729	729	729	729	741
TT4	1132	1132	1132	1132	1132	1132	1132	1149
PT9	32.3	32.3	32.3	32.3	32.3	32.3	32.3	33.4
PTD	36.1	36.7	37.0	37.3	37.6	38.0	38.4	40.9
TT9	1989	1989	1989	1989	1989	1989	1989	1988
TTD	3560	3000	2750	2500	2250	2000	1418	741
WAS/WAP	0.0469	0.0443	0.0431	0.0419	0.0406	0.0392	0.0357	0.0314
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2307	2203	2093	1976	1665	1218
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.88	7.86	7.40	6.96	6.50	6.05	4.92	3.18

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.40	PAM	14.7	PT2	16.4	WBL4	0.
VA KTS	265	TAM	519	TT2	535	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	52422	49132	47602	45806	43718	41759	36662	30603
FGT	62412	58722	56992	55196	53328	51349	46252	40193
WAT	691	691	691	691	691	691	691	691
WFT	103900	83971	75896	68166	61690	54955	41029	27458
TSFC	1.987	1.709	1.601	1.469	1.406	1.316	1.119	0.897
RPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.31
WAT2	629	629	629	629	629	629	629	629
N1	5859	5859	5859	5859	5859	5859	5859	5913
N2	8026	8026	8026	8026	8026	8026	8026	8045
PT3D	42.7	42.7	42.7	42.7	42.7	42.7	42.7	44.7
PT4	186.3	186.3	186.3	186.3	186.3	186.3	186.3	194.1
TT3D	738	738	738	738	738	738	738	752
TT4	1144	1144	1144	1144	1144	1144	1144	1160
PT9	33.8	33.8	33.8	33.8	33.8	33.8	33.8	35.1
PTD	38.0	38.7	39.0	39.3	39.6	39.8	40.4	43.1
TT9	1988	1988	1988	1988	1988	1988	1988	1987
TTD	3560	3000	2750	2500	2250	2000	1419	752
WAS/WAP	0.0464	0.0438	0.0426	0.0413	0.0400	0.0386	0.0353	0.0310
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1673	1226
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.99	7.96	7.50	7.04	6.58	6.12	4.99	3.23

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.60	PAM	14.7	PT2	18.7	WBL4	0.
VA KTS	397	TAM	515	TT2	556	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	55364	51077	49070	46949	44627	42538	36768	29844
FGT	71127	66940	64834	62752	60591	58402	52551	45867
WAT	757	757	757	757	757	757	757	757
WFT	113909	91770	82787	74396	66744	59469	44285	29195
TSFC	2.257	1.797	1.687	1.583	1.489	1.398	1.204	0.978
RPR	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.35
WAT2	615	615	615	615	615	615	615	615
N1	5787	5787	5787	5787	5787	5787	5787	5851
N2	8071	8071	8071	8071	8071	8071	8071	8093
PT3D	46.4	46.4	46.4	46.4	46.4	46.4	46.4	48.7
PT4	199.8	199.8	199.8	199.8	199.8	199.8	199.8	208.9
TT3D	753	753	753	753	753	753	753	766
TT4	1162	1162	1162	1162	1162	1162	1162	1179
PT9	36.2	36.2	36.2	36.2	36.2	36.2	36.2	37.8
PTD	41.1	41.9	42.2	42.5	42.9	43.2	43.7	46.9
TT9	1988	1988	1988	1988	1988	1988	1988	1987
TTD	3560	3000	2750	2500	2250	2000	1412	746
WAS/WAP	0.0457	0.0430	0.0418	0.0405	0.0392	0.0379	0.0346	0.0304
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1680	1237
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.26	8.19	7.72	7.25	6.77	6.29	5.16	3.34

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.70	PAM	14.7	PT2	20.4	WBL4	0.
VA KTS	463	TAM	519	TT2	569	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	47615	42905	40702	38418	36048	33539	27344	20690
FGT	77041	72371	70170	67884	65516	63007	56812	49158
WAT	802	802	802	802	802	802	802	802
WFT	120870	97005	87394	78416	70219	62431	46408	30204
TSFC	2.044	1.636	1.524	1.419	1.325	1.236	1.043	0.817
RPR	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.39
WAT2	606	606	606	606	606	606	606	606
N1	5760	5760	5760	5760	5760	5760	5760	5799
N2	8098	8098	8098	8098	8098	8098	8098	8121
PT3D	49.0	49.0	49.0	49.0	49.0	49.0	49.0	51.3
PT4	208.2	208.2	208.2	208.2	208.2	208.2	208.2	217.6
TT3D	762	762	762	762	762	762	762	774
TT4	1173	1173	1173	1173	1173	1173	1173	1190
PT9	37.7	37.7	37.7	37.7	37.7	37.7	37.7	39.4
PTD	43.2	44.1	44.5	44.8	45.2	45.5	46.1	49.3
TT9	1988	1988	1988	1988	1988	1988	1988	1988
TTD	3560	3000	2750	2500	2250	2000	1440	774
WAS/WAP	0.0452	0.0426	0.0414	0.0401	0.0388	0.0374	0.0342	0.0300
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1685	1244
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	9.42	8.33	7.84	7.36	6.89	6.39	5.26	3.42

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.20	PAM	8.3	PT2	8.5	WBL4	0.
VA KTS	125	TAM	465	TT2	469	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	35449	33243	32196	31111	29978	28786	25622	21934
FGT	3917	35067	34000	33814	32681	31489	28124	24237
WAT	4	411	411	411	411	411	411	411
WFT	62761	50981	46256	41872	37836	34015	29203	23237
TSFC	1.768	1.534	1.437	1.346	1.262	1.182	0.991	0.800
RPR	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
WAT2	674	674	674	674	674	674	674	674
N1	6045	6045	6045	6045	6045	6045	6045	6081
N2	7885	7885	7885	7885	7885	7885	7885	7910
PT3D	25.6	25.6	25.6	25.6	25.6	25.6	25.6	26.7
PT4	112.7	112.7	112.7	112.7	112.7	112.7	112.7	116.6
TT3D	683	683	683	683	683	683	683	695
TT4	1073	1073	1073	1073	1073	1073	1073	1088
PT9	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.4
PTD	22.9	23.3	23.5	23.7	23.9	24.0	24.3	25.8
TT9	1993	1993	1993	1993	1993	1993	1993	1992
TTD	3560	3000	2750	2500	2250	2000	1368	695
WAS/WAP	0.0495	0.0467	0.0454	0.0441	0.0427	0.0413	0.0374	0.0320
VENG	1972	1972	1972	1972	1972	1972	1972	1971
VDUCT	2617	2407	2307	2203	2093	1976	1643	1179
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.72	7.71	7.27	6.83	6.39	5.94	4.74	3.04

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS;
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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	.540	PAM	8.3	PT2	9.8	WBL4	0.
VA KTS	311	TAM	465	TT2	480	WPERT	0.

WARTHR	MAX O/H							MIN O/H NOT LIT
FNT	35454	33636	32247	31078	29860	24358	20926	20704
FGT	61307	59257	58106	56815	55577	50275	47156	46962
WAT	636	636	636	636	636	636	636	636
WFT	96941	93893	91872	90207	88201	75665	68631	68189
TSFC	.8052	.8053	.8015	.8042	.8018	.8247	.8068	.8478
BPR	1.279	1.279	1.279	1.279	1.279	1.274	1.279	1.279
WAT2	665	665	666	664	665	686	665	669
N1	6036	6006	6006	6006	6006	6006	6006	6065
N2	7896	7896	7896	7896	7896	7896	7896	7916
PT30	27.1	27.1	27.1	27.1	27.1	27.1	27.1	28.9
PT4	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1234.6
TT30	693	693	693	693	693	693	693	705
TT4	1045	1045	1045	1045	1045	1045	1045	1100
PT9	23.8	23.8	23.8	23.8	23.8	23.8	23.8	22.6
PTD	26.3	26.3	26.3	26.3	26.3	25.4	25.8	27.6
TT9	1392	1392	1392	1392	1392	1392	1549	1392
TTD	3560	3560	2750	2500	2250	2000	1671	705
WAS/WAP	0.0644	0.0642	0.0644	0.0643	0.0642	0.0638	0.0670	0.0325
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2607	2357	2223	2093	1976	1648	1187
AJCDE	5.21	5.22	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	6.76	7.23	7.29	6.85	6.47	5.95	6.77	3.07

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	.540	PAM	8.3	PT2	9.8	WBL4	0.
VA KTS	311	TAM	465	TT2	480	WPERT	0.

WARTHR	MAX O/H							MIN O/H NOT LIT
FNT	36752	34123	32304	31036	30318	24928	20326	20644
FGT	64245	61621	60198	58124	57412	52614	48621	48141
WAT	636	636	636	636	636	636	636	636
WFT	98142	94265	90691	88008	86523	77283	67716	68465
TSFC	.8469	.8465	.8567	.8454	.8470	.8289	.8131	.8556
BPR	1.279	1.279	1.279	1.279	1.279	1.279	1.279	1.278
WAT2	661	661	661	661	661	661	661	662
N1	5982	5982	5982	5982	5982	5982	5982	6012
N2	7908	7908	7908	7908	7908	7908	7908	7927
PT30	28.3	28.3	28.3	28.3	28.3	28.3	28.3	29.4
PT4	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1292.2
TT30	700	700	700	700	700	700	700	712
TT4	1096	1096	1096	1096	1096	1096	1096	1159
PT9	22.8	22.8	22.8	22.8	22.8	22.8	22.8	21.6
PTD	25.3	25.4	26.0	26.1	26.3	26.5	26.9	24.6
TT9	1392	1392	1392	1392	1392	1392	1392	1391
TTD	3560	3000	2750	2500	2250	2000	1384	722
WAS/WAP	0.0645	0.0648	0.0641	0.0642	0.0648	0.0624	0.0367	0.0263
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2627	2307	2229	2092	1976	1653	1197
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.79	7.77	7.32	6.84	6.43	5.98	4.61	3.09

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	.540	PAM	8.3	PT2	9.8	WBL4	0.
VA KTS	311	TAM	465	TT2	480	WPERT	0.

WARTHR	MAX O/H							MIN O/H NOT LIT
FNT	35224	33903	32536	31116	29620	24556	20781	
FGT	67525	66492	65371	63934	62486	59288	55057	50259
WAT	640	640	640	640	640	640	640	640
WFT	96673	94435	93189	91229	89509	85627	79067	69712
TSFC	.8910	.8673	.8675	.8642	.8598	.8314	.8135	.8948
BPR	1.279	1.279	1.279	1.279	1.279	1.279	1.279	1.278
WAT2	654	654	654	654	654	654	654	654
N1	5953	5953	5953	5953	5953	5953	5953	5995
N2	7928	7928	7928	7928	7928	7928	7928	7946
PT30	29.7	29.7	29.7	29.7	29.7	29.7	29.7	31.0
PT4	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1359.9
TT30	708	708	708	708	708	708	708	721
TT4	1106	1106	1106	1106	1106	1106	1106	1170
PT9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	24.7
PTD	26.5	27.0	27.2	27.6	27.8	27.8	28.2	30.0
TT9	1991	1991	1991	1991	1991	1991	1991	1991
TTD	3560	3000	2750	2500	2250	2000	1391	721
WAS/WAP	0.0680	0.0653	0.0660	0.0627	0.0636	0.0600	0.0366	0.0325
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2607	2357	2223	2093	1976	1657	1200
AJCDE	5.22	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.44	7.82	7.37	6.92	6.47	5.02	4.85	3.13

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	.540	PAM	8.3	PT2	12.6	WBL4	0.
VA KTS	421	TAM	465	TT2	525	WPERT	0.

WARTHR	MAX O/H							MIN O/H NOT LIT
FNT	41972	39106	36980	35461	33663	31651	27197	21557
FGT	58270	52863	51277	49435	47340	45151	41425	35854
WAT	544	544	544	544	544	544	544	544
WFT	81491	66253	59823	56021	49637	43517	32444	22406
TSFC	1.951	1.718	1.629	1.529	1.466	1.366	1.243	1.032
BPR	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
WAT2	636	636	636	636	636	636	636	636
N1	5681	5681	5681	5681	5681	5681	5681	5731
N2	7369	7369	7369	7369	7369	7369	7369	7426
PT30	33.4	33.4	33.4	33.4	33.4	33.4	33.4	35.2
PT4	1471.1	1471.1	1471.1	1471.1	1471.1	1471.1	1471.1	1542.0
TT30	729	729	729	729	729	729	729	762
TT4	1133	1133	1133	1133	1133	1133	1133	1198
PT9	26.8	26.8	26.8	26.8	26.8	26.8	26.8	27.7
PTD	29.7	30.3	30.6	30.8	31.0	31.2	31.6	33.4
TT9	1990	1990	1990	1990	1990	1990	1990	1990
TTD	3560	3000	2750	2500	2250	2000	1412	742
WAS/WAP	0.0669	0.0642	0.0635	0.0617	0.0604	0.0569	0.0356	0.0313
VENG	1971	1971	1971	1971	1971	1971	1971	1970
VDUCT	2617	2627	2307	2229	2093	1976	1664	1218
AJCDE	5.20	5.20	5.22	5.20	5.20	5.20	5.20	5.21
AJCDD	8.49	7.96	7.50	7.04	6.59	6.12	4.98	3.21

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	1.000	PAM	8.3	PT2	15.7	WBL4	0.
VA KTS	626	TAM	465	TT2	558	WPERT	0.

WARTHR	MAX O/H							MIN O/H NOT LIT
FNT	47875	43419	41441	39397	37283	35056	29492	22587
FGT	68424	66169	62189	60146	58232	55905	50240	43335
WAT	631	631	631	631	631	631	631	631
WFT	95335	86555	80932	62706	55598	49505	38781	24129
TSFC	1.935	1.753	1.666	1.576	1.491	1.412	1.267	1.068
BPR	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.37
WAT2	613	613	613	613	613	613	613	613
N1	5769	5769	5769	5769	5769	5769	5769	5831
N2	8063	8063	8063	8063	8063	8063	8063	8085
PT30	39.4	39.4	39.4	39.4	39.4	39.4	39.4	40.3
PT4	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1727
TT30	752	752	752	752	752	752	752	765
TT4	1163	1163	1163	1163	1163	1163	1163	1179
PT9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	31.3
PTD	33.8	34.5	34.8	35.1	35.4	35.6	36.1	38.7
TT9	1990	1990	1990	1990	1990	1990	1990	1989
TTD	3560	3000	2750	2500	2250	2000	1431	765
WAS/WAP	0.0648	0.0630	0.0617	0.0605	0.0592	0.0578	0.0545	0.0303
VENG	1971	1971	1971	1971	1971	1971	1971	1970
VDUCT	2617	2607	2309	2223	2093	1976	1680	1236
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.41	8.52	7.84	7.36	6.80	6.39	5.23	3.39

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ALT	25000	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.20	PAM	5.5	PT2	5.6	WBL4	0.
VA KTS	120	TAM	430	TT2	438	WPERT	0.

WARTHR	MAX O/H							MIN O/H NOT LIT
FNT	24628	23579	22553	21585	20910	19083	17446	14611
FGT	26436	24987	24160	23607	22617	21787	19753	16428
WAT	286	286	286	286	286	286	286	286
WFT	43493	35233	31946	29929	26081	23425	18875	11301
TSFC	1.756	1.527	1.429	1.359	1.253	1.172	0.967	0.774
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
WAT2	684	684	684	684	684	684	684	684
N1	5979	5979	5979	5979	5979	5979	5979	6016
N2	7664	7664	7664	7664	7664	7664	7664	7697
PT30	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.8
PT4	754.9	754.9	754.9	754.9	754.9	754.9	754.9	784.5
TT30	634	634	634	634	634	634	634	645
TT4	1011	1011	1011	1011	1011	1011	1011	1026
PT9	13.4	13.8	13.8	13.8	13.8	13.8	13.8	14.3
PTD	15.2	15.5	15.6	15.9	15.9	16.0	16.3	17.3
TT9	1900	1900	1900	1900	1900	1900	1900	1900
TTD	3560	3000	2750	2500	2250	2000	1329	645
WAS/WAP	0.0512	0.0483	0.0469	0.0455	0.0440	0.0425	0.0281	0.0132
VENG	1927	1927	1927	1927	1927	1927	1927	1927
VDUCT	2617	2607	2307	2203	2092	1976	1617	1136
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.15	8.08	7.61	7.14	6.67	6.19	4.84	3.05

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ALT	25000	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.40	PAM	5.5	PT2	6.1	WBL4	0.
VA KTS	243	TAM	430	TT2	444	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	25746	21397	23180	22333	21448	20518	17750	14597
FGT	29631	27885	27067	26229	25335	24406	21637	18485
WAT	308	308	308	308	308	308	308	308
WFT	47041	39163	34620	31350	28301	25435	18509	12508
TSFC	1.927	1.590	1.494	1.404	1.320	1.240	1.043	0.857
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
WAT2	686	685	686	686	686	686	686	686
N1	6065	6065	6065	6065	6065	6065	6065	6101
N2	7762	7762	7762	7762	7762	7762	7762	7795
PT3D	18.5	18.5	18.5	18.5	18.5	18.5	18.5	19.1
PT4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	85.4
TT3D	649	649	649	649	649	649	649	659
TT4	1036	1036	1036	1036	1036	1036	1036	1050
PT9	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.6
PTD	16.5	16.8	17.0	17.1	17.2	17.3	17.6	18.7
TT9	1949	1949	1949	1949	1949	1949	1949	1949
TTD	3560	3000	2750	2500	2250	2000	1337	659
WAS/WAP	0.0528	0.0478	0.0469	0.0452	0.0437	0.0422	0.0380	0.0332
VENG	1951	1951	1951	1951	1951	1951	1951	1951
VDUCT	2617	2407	2307	2203	2093	1976	1625	1148
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.10	8.33	7.56	7.10	6.63	6.16	4.85	3.07

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ALT	25000	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.40	PAM	5.5	PT2	6.1	WBL4	0.
VA KTS	482	TAM	430	TT2	445	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	31694	29201	27843	26646	25405	24100	20518	16266
FGT	41315	38820	37460	36443	35222	33617	30395	26083
WAT	389	389	389	389	389	389	389	389
WFT	59030	47485	43409	39250	35433	31416	23611	16368
TSFC	1.613	1.651	1.552	1.473	1.395	1.320	1.151	0.988
BPR	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
WAT2	663	663	663	663	663	663	663	663
N1	5987	5987	5987	5987	5987	5987	5987	6027
N2	7889	7889	7889	7885	7889	7889	7889	7907
PT3D	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.9
PT4	106.0	106.0	106.0	106.0	106.0	106.0	106.0	109.8
TT3D	695	695	695	695	695	695	695	707
TT4	1089	1089	1089	1089	1089	1089	1089	1104
PT9	19.4	19.4	19.4	19.4	19.4	19.4	19.4	20.0
PTD	21.4	21.8	22.0	22.2	22.3	22.5	22.8	24.2
TT9	1993	1993	1993	1993	1993	1993	1993	1993
TTD	3560	3000	2750	2500	2250	2000	1379	707
WAS/WAP	0.0687	0.0660	0.0647	0.0634	0.0620	0.0606	0.0569	0.0524
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2407	2307	2203	2093	1976	1650	1189
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.93	7.81	7.34	6.91	6.46	6.01	4.82	3.10

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ALT	25000	WASIZE	640	PT2/PT2P	0.997	WBL3	3.00
MN	1.10	PAM	5.5	PT2	11.6	WBL4	0.
VA KTS	662	TAM	430	TT2	534	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	38724	35267	33665	32013	30305	28510	23896	18224
FGT	55771	52134	50312	49060	47352	45557	40940	35271
WAT	491	491	491	491	491	491	491	491
WFT	73891	59631	53961	48577	43686	39033	29045	19379
TSFC	1.908	1.693	1.602	1.517	1.442	1.369	1.216	1.063
BPR	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.33
WAT2	630	630	630	630	630	630	630	630
N1	5847	5847	5847	5847	5847	5847	5847	5900
N2	7999	7999	7959	7999	7999	7999	7999	8018
PT3D	29.9	29.9	29.9	29.9	29.9	29.9	29.9	31.3
PT4	131.3	131.3	131.3	131.3	131.3	131.3	131.3	136.7
TT3D	733	733	733	733	733	733	733	746
TT4	1141	1141	1141	1141	1141	1141	1141	1156
PT9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	24.8
PTD	26.5	27.0	27.2	27.4	27.6	27.8	28.2	30.2
TT9	1992	1992	1992	1992	1992	1992	1992	1991
TTD	3560	3000	2750	2500	2250	2000	1414	746
WAS/WAP	0.0465	0.0439	0.0426	0.0414	0.0400	0.0387	0.0353	0.0310
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2308	2203	2093	1976	1670	1221
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.19	8.12	7.65	7.19	6.72	6.24	5.08	3.28

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ALT	25000	WASIZE	640	PT2/PT2P	0.991	WBL3	3.00
MN	1.20	PAM	5.5	PT2	13.1	WBL4	0.
VA KTS	722	TAM	430	TT2	554	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	41644	37353	35149	34090	32170	30151	25079	18765
FGT	61839	57947	56143	54284	52366	50345	45273	38959
WAT	533	533	533	533	533	533	533	533
WFT	80295	64670	58333	52615	47021	41490	31093	20441
TSFC	1.928	1.713	1.623	1.537	1.442	1.389	1.240	1.049
BPR	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.37
WAT2	616	616	616	616	616	616	616	616
N1	5779	5778	5778	5778	5778	5778	5778	5839
N2	8042	8042	8042	8042	8042	8042	8042	8064
PT3D	32.2	32.2	32.2	32.2	32.2	32.2	32.2	33.8
PT4	139.6	139.6	139.6	139.6	139.6	139.6	139.6	145.8
TT3D	747	747	747	747	747	747	747	760
TT4	1157	1157	1157	1157	1157	1157	1157	1174
PT9	25.3	25.3	25.3	25.3	25.3	25.3	25.3	26.4
PTD	28.4	28.9	29.2	29.4	29.7	29.9	30.3	32.5
TT9	1991	1991	1991	1991	1991	1991	1991	1990
TTD	3560	3000	2750	2500	2250	2000	1427	760
WAS/WAP	0.0458	0.0432	0.0419	0.0407	0.0393	0.0380	0.0347	0.0304
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2308	2204	2093	1976	1677	1232
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.45	8.35	7.87	7.39	6.90	6.41	5.24	3.38

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ALT	25000	WASIZE	640	PT2/PT2P	0.985	WBL3	3.00
MN	1.30	PAM	5.5	PT2	14.9	WBL4	0.
VA KTS	783	TAM	430	TT2	575	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	44905	40502	38463	36362	34191	31911	26330	19188
FGT	68597	64295	62255	60154	57984	55703	50123	42980
WAT	579	579	579	579	579	579	579	579
WFT	87439	70181	63171	54619	50645	44965	33282	21422
TSFC	1.947	1.733	1.642	1.557	1.481	1.409	1.266	1.116
BPR	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.44
WAT2	602	602	602	602	602	602	602	602
N1	5703	5703	5703	5703	5703	5703	5703	5754
N2	8085	8085	8085	8085	8085	8085	8085	8109
PT3D	34.9	34.9	34.9	34.9	34.9	34.9	34.9	36.6
PT4	148.0	148.0	148.0	148.0	148.0	148.0	148.0	154.5
TT3D	762	762	762	762	762	762	762	774
TT4	1174	1174	1174	1174	1174	1174	1174	1191
PT9	26.8	26.8	26.8	26.8	26.8	26.8	26.8	27.9
PTD	30.6	31.2	31.5	31.8	32.0	32.3	32.7	35.0
TT9	1991	1991	1991	1991	1991	1991	1991	1990
TTD	3560	3000	2750	2500	2250	2000	1441	774
WAS/WAP	0.0451	0.0424	0.0412	0.0399	0.0386	0.0373	0.0340	0.0298
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2308	2203	2093	1976	1685	1244
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.71	8.57	8.07	7.58	7.07	6.57	5.40	3.52

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MN	0.40	PAM	3.3	PT2	3.7	WBL4	0.
VA KTS	229	TAM	390	TT2	403	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	15674	14616	14118	13600	13057	12484	10605	8547
FGT	18008	16950	16453	15936	15391	14819	12939	10881
WAT	194	194	194	194	194	194	194	194
WFT	29105	23681	21282	19214	17271	15473	10755	6974
TSFC	1.657	1.607	1.507	1.413	1.327	1.237	1.014	0.816
BPR	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
WAT2	685	685	685	685	685	685	685	685
N1	5782	5782	5782	5782	5782	5782	5782	5812
N2	7344	7344	7344	7344	7344	7344	7344	7368
PT3D	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.4
PT4	49.1	49.1	49.1	49.1	49.1	49.1	49.1	90.7
TT3D	585	585	585	585	585	585	585	595
TT4	941	941	941	941	941	941	941	954
PT9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.2
PTD	9.5	9.8	9.9	10.0	10.1	10.2	10.4	11.0
TT9	1758	1758	1758	1758	1758	1758	1758	1758
TTD	3560	3000	2750	2500	2250	2000	1277	595
WAS/WAP	0.0526	0.0495	0.0480	0.0465	0.0450	0.0434	0.0384	0.0330
VENG	1855	1855	1855	1855	1855	1855	1855	1855
VDUCT	2617	2407	2307	2203	2092	1976	1589	1091
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.47	8.67	8.15	7.64	7.13	6.61	5.05	3.10

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ALT	36153	MASIZE	640	PT2/PT2P	1.000	MRL3	3.00
MN	.2.60	PAM	3.3	PT2	4.2	MRL4	0.
VA KTS	344	TAM	390	TT2	419	MPERT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	17632	16322	15721	15094	14464	13763	12469	9204
FGT	21528	20240	19649	19017	18396	17692	16522	13123
WAT	217	217	217	217	217	217	217	217
WFT	32765	26458	23910	21651	19936	17522	12401	4170
TSFC	1.460	1.421	1.425	1.437	1.352	1.273	1.068	0.988
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
WAT2	684	684	684	684	684	684	684	684
N1	5877	5877	5877	5877	5877	5877	5877	5930
N2	7497	7497	7497	7497	7497	7497	7497	7522
PT30	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1
PT4	56.2	56.2	56.2	56.2	56.2	56.2	56.2	58.1
TT30	610	610	610	610	610	610	610	620
TT4	976	976	976	976	976	976	976	990
PT9	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.6
PT0	11.1	11.3	11.4	11.5	11.6	11.7	11.9	12.7
TT9	1832	1832	1832	1832	1832	1832	1832	1831
TT0	3560	3000	2750	2500	2250	2000	1300	620
WAS/WAP	0.0513	0.0488	0.0476	0.0460	0.0445	0.0429	0.0383	0.0331
VENG	1893	1893	1893	1893	1893	1893	1893	1892
VDUCT	2617	2407	2307	2203	2093	1976	1601	1114
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.52	8.38	7.89	7.39	6.90	6.41	4.96	3.08

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ALT	36153	MASIZE	640	PT2/PT2P	1.000	MRL3	3.00
MN	2.70	PAM	3.3	PT2	5.6	MRL4	0.
VA KTS	516	TAM	590	TT2	643	MPERT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	23281	21604	20617	19661	18715	17761	14930	11658
FGT	28770	27101	26016	25150	24212	23260	22627	19155
WAT	277	277	277	277	277	277	277	277
WFT	42647	35436	31310	28366	25630	23054	16335	11351
TSFC	1.426	1.412	1.429	1.444	1.470	1.294	1.135	0.941
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.30
WAT2	885	885	885	885	885	885	885	885
N1	6123	6123	6123	6123	6123	6123	6123	6184
N2	7831	7831	7831	7831	7831	7831	7831	7862
PT30	16.9	16.9	16.9	16.9	16.9	16.9	16.9	17.5
PT4	75.0	75.0	75.0	75.0	75.0	75.0	75.0	77.5
TT30	662	662	662	662	662	662	662	673
TT4	1057	1057	1057	1057	1057	1057	1057	1072
PT9	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.2
PT0	14.9	15.2	15.3	15.5	15.6	15.7	15.9	16.9
TT9	1936	1936	1936	1936	1936	1936	1936	1935
TT0	4560	3000	2750	2500	2250	2000	1349	673
WAS/WAP	0.0504	0.0476	0.0462	0.0449	0.0434	0.0420	0.0373	0.0332
VENG	1973	1973	1973	1973	1973	1973	1973	1973
VDUCT	2617	2407	2307	2203	2093	1976	1632	1160
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.03	7.98	7.51	7.05	6.58	6.12	4.85	3.08

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ALT	36153	MASIZE	640	PT2/PT2P	0.991	MRL3	3.00
MN	1.22	PAM	3.3	PT2	7.9	MRL4	0.
VA KTS	494	TAM	590	TT2	501	MPERT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	29620	28400	25589	24342	23354	21703	18046	13709
FGT	42252	39533	38622	37179	35687	34134	30919	26541
WAT	355	355	355	355	355	355	355	355
WFT	53732	43558	37425	33558	30096	28771	21362	14430
TSFC	1.824	1.675	1.541	1.462	1.392	1.326	1.141	1.043
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.30
WAT2	851	851	851	851	851	851	851	851
N1	5933	5930	5930	5930	5930	5930	5930	5972
N2	7910	7910	7910	7910	7910	7910	7910	7923
PT30	21.7	21.7	21.7	21.7	21.7	21.7	21.7	22.6
PT4	96.2	96.2	96.2	96.2	96.2	96.2	96.2	99.8
TT30	708	708	708	708	708	708	708	720
TT4	1108	1108	1108	1108	1108	1108	1108	1122
PT9	17.5	17.5	17.5	17.5	17.5	17.5	17.5	18.2
PT0	19.3	19.6	19.8	19.9	20.1	20.2	20.5	21.8
TT9	1994	1994	1994	1994	1994	1994	1994	1994
TT0	3560	3000	2750	2500	2250	2000	1391	720
WAS/WAP	0.0479	0.0452	0.0439	0.0426	0.0413	0.0399	0.0363	0.0318
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2407	?	2203	2093	1976	1657	1200
AJCDE	5.21	5.21		5.21	5.21	5.21	5.21	5.21
AJCDD	9.37	7.98	?.	7.05	6.60	6.13	4.94	3.18

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ALT	36150	MASIZE	640	PT2/PT2P	0.971	MRL3	3.00
MN	1.53	PAM	3.3	PT2	11.7	MRL4	0.
VA KTS	860	TAM	990	TT2	566	MPERT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	37444	33675	31933	30142	28294	26357	21556	15454
FGT	58359	56580	52849	51356	49709	47771	42471	36788
WAT	663	663	663	663	663	663	663	663
WFT	69922	54184	50068	45409	40652	38138	28723	17311
TSFC	1.867	1.668	1.585	1.506	1.437	1.371	1.240	1.125
BPR	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.42
WAT2	808	808	808	808	808	808	808	808
N1	5728	5728	5728	5728	5728	5728	5728	5780
N2	8056	8056	8056	8056	8056	8056	8056	8076
PT30	27.7	27.7	27.7	27.7	27.7	27.7	27.7	28.0
PT4	119.0	119.0	119.0	119.0	119.0	119.0	119.0	124.2
TT30	754	754	754	754	754	754	754	765
TT4	1166	1166	1166	1166	1166	1166	1166	1182
PT9	21.6	21.6	21.6	21.6	21.6	21.6	21.6	22.5
PT0	24.3	24.8	25.0	25.2	25.4	25.6	26.0	27.9
TT9	1993	1993	1993	1993	1993	1993	1993	1992
TT0	3560	3000	2750	2500	2250	2000	1432	765
WAS/WAP	0.0494	0.0478	0.0465	0.0451	0.0437	0.0423	0.0383	0.0340
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2407	2308	2203	2093	1976	1681	1237
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.71	8.58	8.09	7.59	7.05	6.58	5.39	3.50

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ALT	36153	MASIZE	640	PT2/PT2P	0.945	MRL3	3.00
MN	1.80	PAM	3.3	PT2	17.8	MRL4	0.
VA KTS	1032	TAM	990	TT2	643	MPERT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	47763	42107	39746	37217	34552	31766	25609	16949
FGT	80686	75227	72513	69936	67272	64484	58329	49669
WAT	604	604	604	604	604	604	604	604
WFT	80631	71498	64372	57315	50453	44822	33256	20263
TS	1.897	1.639	1.618	1.560	1.475	1.411	1.299	1.196
BPR	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.59
WAT2	955	955	955	955	955	955	955	955
N1	5916	5916	5916	5916	5916	5916	5916	5956
N2	8193	8193	8193	8193	8193	8193	8193	8225
PT30	36.8	36.8	36.8	36.8	36.8	36.8	36.8	38.4
PT4	145.8	145.8	145.8	145.8	145.8	145.8	145.8	151.7
TT30	817	817	817	817	817	817	817	827
TT4	1229	1229	1229	1229	1229	1229	1229	1244
PT9	26.4	26.4	26.4	26.4	26.4	26.4	26.4	27.3
PT0	32.0	32.7	33.0	33.3	33.5	33.8	34.2	36.4
TT9	1993	1993	1993	1993	1993	1993	1993	1992
TT0	3560	3000	2750	2500	2250	2000	1440	827
WAS/WAP	0.0429	0.0403	0.03981	0.0379	0.0366	0.0352	0.0323	0.0282
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2408	2308	2203	2093	1976	1713	1285
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.04	8.86	8.36	7.87	7.31	6.79	5.68	3.79

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ALT	45000	MASIZE	640	PT2/PT2P	1.000	MRL3	3.00
MN	2.50	PAM	2.1	PT2	2.5	MRL4	0.
VA KTS	787	TAM	990	TT2	409	MPERT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	10532	9797	9453	9096	8717	8320	7026	5599
FGT	12561	11908	11644	11104	10728	10311	9035	7410
WAT	134	134	134	134	134	134	134	134
WFT	20027	16160	14648	13227	11889	10652	7422	4435
TSFC	1.952	1.669	1.550	1.455	1.364	1.280	1.057	0.860
BPR	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
WAT2	685	685	685	685	685	685	685	685
N1	5968	5968	5968	5968	5968	5968	5968	5975
N2	7350	7350	7350	7350	7350	7350	7350	7368
PT30	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.7
PT4	33.7	33.7	33.7	33.7	33.7	33.7	33.7	34.4
TT30	589	589	589	589	589	589	589	598
TT4	955	955	955	955	955	955	955	968
PT9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.3
PT0	6.6	6.6	6.6	6.7	6.7	6.8	6.9	7.4
TT9	1796	1796	1796	1796	1796	1796	1796	1796
TT0	3560	3000	2750	2500	2250	2000	1281	598
WAS/WAP	0.0424	0.0403	0.0478	0.0466	0.0448	0.0432	0.0183	0.0123
VENG	1874	1874	1874	1874	1874	1874	1874	1874
VDUCT	2617	2407	2307	2203	2092	1976	1591	1294
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.16	8.92	8.38	7.85	7.32	6.79	5.19	3.18

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ALT	45000	WASIZE		640	PT2/PT2P	1.000	WBL3	3.00
MN	.800	PAM		2.61	PT2	3.3	WBL4	0.
VA KTS	653	TAM		543	TT2	440	MPEXT	0.
MAXTHR	MAX D/H						MIN D/H NOT LIT	
ENT	11674	12628	13710	13516	10456	10356	9865	6379
EGT	17627	18601	19749	19627	16401	16369	12629	10772
WAT	166	166	166	166	166	166	166	166
WFT	29328	29437	28533	16779	15135	13596	9800	6963
TSFC	1.872	1.765	1.652	1.667	1.189	1.313	1.124	0.968
BPR	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
WAT2	685	685	685	685	685	685	685	685
N1	6061	6061	6061	6061	6061	6061	6061	6091
N2	7663	7663	7663	7663	7663	7663	7663	7686
PT30	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0
PT4	43.6	43.6	43.6	43.6	43.6	43.6	43.6	45.0
TT30	635	635	635	635	635	635	635	665
TT4	1025	1025	1025	1025	1025	1025	1025	1039
PT9	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.2
PTD	9.6	9.6	9.6	9.6	9.6	9.9	9.0	9.6
TT9	1938	1938	1938	1938	1938	1938	1938	1938
TTD	3560	3300	2750	2500	2250	2000	1428	760
WAS/WAP	0.0511	0.0461	0.0407	0.0403	0.0393	0.0426	0.0346	0.0330
VENG	1965	1965	1965	1965	1965	1965	1965	1965
VDUCT	2617	2607	2707	2703	2092	1976	1417	1136
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.53	8.68	7.98	7.69	6.93	6.69	5.07	5.18

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ALT	45000	WASIZE		640	PT2/PT2P	0.995	WBL3	3.00
MN	1.02	PAM		2.61	PT2	5.2	WBL4	0.
VA KTS	685	TAM		570	TT2	502	MPEXT	0.
MAXTHR	MAX D/H						MIN D/H NOT LIT	
ENT	17026	17978	18944	18776	14400	14024	13751	9774
EGT	27626	28710	29769	29614	23101	22626	20265	17194
WAT	233	233	233	233	233	233	233	233
WFT	35127	34668	25765	23252	20457	18781	13946	9768
TSFC	1.846	1.662	1.557	1.678	1.403	1.339	1.170	1.063
BPR	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
WAT2	651	651	651	651	651	651	651	651
N1	5932	5932	5932	5932	5932	5932	5932	5969
N2	7473	7473	7473	7473	7473	7473	7473	7495
PT30	13.8	13.8	13.8	13.8	13.8	13.8	13.8	14.5
PT4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	64.6
TT30	702	702	702	702	702	702	702	714
TT4	1105	1105	1105	1105	1105	1105	1105	1119
PT9	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.8
PTD	12.2	12.5	12.6	12.7	12.9	12.9	13.1	13.5
TT9	1498	1498	1498	1498	1498	1498	1498	1498
TTD	3560	3300	2750	2500	2250	2000	1486	716
WAS/WAP	0.0681	0.0692	0.0646	0.0627	0.0613	0.0599	0.0502	0.0317
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2617	2607	2707	2703	2093	1976	1A	1195
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.30	8.21	7.74	7.26	6.78	6.30	5.07	5.25

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ALT	45000	WASIZE		640	PT2/PT2P	0.971	WBL3	3.00
MN	1.20	PAM		3.1	PT2	7.7	WBL4	0.
VA KTS	765	TAM		593	TT2	566	MPEXT	0.
MAXTHR	MAX D/H						MIN D/H NOT LIT	
ENT	24263	25412	26670	26513	18310	17048	13868	9081
EGT	37955	39033	40170	39704	29061	30739	27529	23573
WAT	303	303	303	303	303	303	303	303
WFT	65812	36742	33129	29700	26582	23617	17396	11192
TSFC	1.884	1.666	1.602	1.522	1.462	1.385	1.252	1.133
BPR	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.46
WAT2	608	608	608	608	608	608	608	608
N1	5716	5716	5716	5716	5716	5716	5716	5762
N2	8020	8020	8020	8020	8020	8020	8020	8043
PT30	17.7	17.7	17.7	17.7	17.7	17.7	17.7	18.5
PT4	76.9	76.9	76.9	76.9	76.9	76.9	76.9	80.2
TT30	748	748	748	748	748	748	748	760
TT4	1162	1162	1162	1162	1162	1162	1162	1178
PT9	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.5
PTD	15.6	15.7	15.9	16.0	16.2	16.3	16.5	17.2
TT9	1997	1997	1997	1997	1997	1997	1997	1996
TTD	3560	3300	2750	2500	2250	2000	1428	760
WAS/WAP	0.0455	0.0428	0.0416	0.0403	0.0390	0.0376	0.0342	0.0299
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2617	2607	2307	2203	2093	1976	1678	1232
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.37	9.89	8.36	7.84	7.32	6.79	5.55	5.59

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ALT	45000	WASIZE		640	PT2/PT2P	0.965	WBL3	3.00
MN	1.40	PAM		3.61	PT2	11.7	WBL4	0.
VA KTS	1032	TAM		770	TT2	693	MPEXT	0.
MAXTHR	MAX D/H						MIN D/H NOT LIT	
ENT	31916	27697	25818	24137	22398	20577	16516	10829
EGT	52637	48470	47231	45550	44411	41990	37910	32267
WAT	395	395	395	395	395	395	395	395
WFT	59627	47115	42170	37535	33354	29326	21603	13111
TSFC	1.716	1.716	1.633	1.555	1.489	1.425	1.312	1.211
BPR	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.61
WAT2	555	555	555	555	555	555	555	555
N1	5498	5498	5498	5498	5498	5498	5498	5534
N2	8158	8158	8158	8158	8158	8158	8158	8189
PT30	23.6	23.6	23.6	23.6	23.6	23.6	23.6	24.6
PT4	94.2	94.2	94.2	94.2	94.2	94.2	94.2	97.9
TT30	812	812	812	812	812	812	812	822
TT4	1225	1225	1225	1225	1225	1225	1225	1241
PT9	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.7
PTD	20.4	20.6	21.0	21.2	21.4	21.6	21.7	23.4
TT9	1937	1997	1997	1997	1997	1997	1997	1996
TTD	3560	3300	2750	2500	2250	2000	1428	822
WAS/WAP	0.0430	0.0404	0.0392	0.0379	0.0366	0.0353	0.0329	0.0281
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2617	2607	2307	2203	2093	1976	1710	1241
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.36	9.14	8.60	8.05	7.52	6.98	5.63	5.89

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ALT	45000	WASIZE		640	PT2/PT2P	0.925	WBL3	3.00
MN	2.00	PAM		3.61	PT2	15.6	WBL4	0.
VA KTS	1147	TAM		990	TT2	902	MPEXT	0.
MAXTHR	MAX D/H						MIN D/H NOT LIT	
ENT	36302	31818	29762	27665	25464	23183	18668	11640
EGT	64509	62025	57969	55852	53671	51392	46855	39847
WAT	469	469	469	469	469	469	469	469
WFT	69321	54625	48728	43180	38167	33356	25055	14756
TSFC	1.910	1.717	1.637	1.562	1.499	1.439	1.344	1.268
BPR	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68
WAT2	515	515	515	515	515	515	515	515
N1	5454	5454	5454	5454	5454	5454	5454	5489
N2	8196	8196	8196	8196	8196	8196	8196	8231
PT30	29.6	29.6	29.6	29.6	29.6	29.6	29.6	30.5
PT4	110.2	110.2	110.2	110.2	110.2	110.2	110.2	114.1
TT30	869	869	869	865	869	869	869	877
TT4	1279	1279	1279	1279	1279	1279	1279	1294
PT9	19.4	19.8	19.8	19.8	19.8	19.8	19.8	20.5
PTD	25.8	26.4	26.6	26.8	27.0	27.2	27.5	29.0
TT9	1995	1995	1995	1995	1995	1995	1995	1995
TTD	3560	3300	2750	2500	2250	2000	1536	877
WAS/WAP	0.0412	0.0387	0.0375	0.0363	0.0351	0.0337	0.0312	0.0272
VENG	1973	1973	1973	1973	1973	1973	1973	1973
VDUCT	2617	2607	2307	2203	2093	1976	1739	1322
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.78	8.64	8.14	7.64	7.14	6.63	5.86	5.89

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ALT	55000	WASIZE		640	PT2/PT2P	0.997	WBL3	3.00
MN	1.13	PAM		1.5	PT2	2.8	WBL4	0.
VA KTS	631	TAM		590	TT2	484	MPEXT	0.
MAXTHR	MAX D/H						MIN D/H NOT LIT	
ENT	10642	9725	9300	8161	8407	7931	6591	5010
EGT	15026	14106	13681	13249	12788	12312	10973	9341
WAT	132	132	132	132	132	132	132	132
WFT	19971	16189	14670	13267	11963	10736	7941	5322
TSFC	1.477	1.445	1.427	1.457	1.423	1.354	1.197	1.062
BPR	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.38
WAT2	663	663	663	663	663	663	663	663
N1	6065	6065	6065	6065	6065	6065	6065	6033
N2	7774	7774	7774	7774	7774	7774	7774	7787
PT30	7.6	7.6	7.6	7.6	7.6	7.6	7.6	8.0
PT4	35.1	35.1	35.1	35.1	35.1	35.1	35.1	36.9
TT30	680	680	680	680	680	680	680	691
TT4	1083	1083	1083	1083	1083	1083	1083	1097
PT9	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.6
PTD	6.7	6.8	6.9	6.9	7.0	7.0	7.2	7.7
TT9	2004	2004	2004	2004	2004	2004	2004	2003
TTD	3560	3300	2750	2500	2250	2000	1369	691
WAS/WAP	0.0489	0.0461	0.0448	0.0435	0.0421	0.0407	0.0367	0.0321
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2617	2607	2307	2203	2093	1976	1762	1376
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.42	8.49	7.95	7.40	7.00	6.50	5.18	5.28

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DOD DIR 5200.10

ALT	55000	MASIZE	.640	PT2/PT2P	0.931	MBL3	3.00
MN	1.450	PAM	1.45	PT2	3.2	MBL4	0.
VA KTS	668	TAM	390	TT2	502	MPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	11514	10464	10026	9648	9026	8402	7027	5272
FGT	16761	15710	15235	14741	14216	13698	12234	10479
WAT	144	144	144	144	144	144	144	144
WFT	21639	17565	15709	14356	12934	11549	8536	5719
TSFC	1.941	1.577	1.486	1.409	1.433	1.365	1.715	1.985
BPR	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
WAT2	651	651	651	651	651	651	651	651
N1	5961	5960	5960	5960	5960	5960	5960	5969
N2	7826	7826	7826	7827	7826	7826	7826	7841
PT30	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.6
PT4	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.4
TT30	695	695	695	695	695	695	695	706
TT4	1103	1103	1103	1103	1103	1103	1103	1116
PT9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.2
PTD	7.2	7.4	7.4	7.5	7.6	7.6	7.8	8.3
TT9	2003	2003	2003	2003	2003	2003	2003	2003
TTD	3560	3500	2750	2500	2250	2000	1579	706
WAS/WAP	0.0441	0.0455	0.0460	0.0427	0.0413	0.0399	0.0362	0.0316
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2617	2407	2307	2201	2093	1976	1650	1188
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.23	8.59	8.04	7.58	7.08	6.57	5.26	3.35

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ALT	55000	MASIZE	.640	PT2/PT2P	0.931	MBL3	3.00
MN	1.55	PAM	1.6	PT2	4.7	MBL4	0.
VA KTS	860	TAM	390	TT2	586	MPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	14764	13260	12573	11855	11123	10369	8849	5413
FGT	23251	21752	21059	20345	19609	18835	16875	14799
WAT	188	188	188	188	188	188	188	188
WFT	28364	22743	20472	18351	16414	14579	10617	6928
TSFC	1.920	1.714	1.629	1.547	1.478	1.409	1.273	1.255
BPR	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.50
WAT2	608	608	608	608	608	608	608	608
N1	5711	5711	5711	5711	5711	5711	5711	5750
N2	7981	7981	7981	7981	7981	7981	7981	8004
PT30	10.6	10.6	10.6	10.6	10.6	10.6	10.6	11.1
PT4	46.9	46.9	46.9	46.9	46.9	46.9	46.9	48.4
TT30	742	742	742	742	742	742	742	753
TT4	1159	1159	1159	1159	1159	1159	1159	1175
PT9	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.9
PTD	9.1	9.3	9.4	9.5	9.6	9.7	9.9	10.6
TT9	2002	2002	2002	2002	2002	2002	2002	2001
TTD	3560	3500	2750	2500	2250	2000	1622	759
WAS/WAP	0.0456	0.0469	0.0483	0.0493	0.0390	0.0376	0.0342	0.0298
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2617	2407	2308	2201	2093	1976	1674	1227
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	10.54	9.78	9.15	8.68	8.03	7.48	5.98	3.72

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ALT	55000	MASIZE	.640	PT2/PT2P	0.945	MBL3	3.00
MN	1.650	PAM	1.5	PT2	7.2	MBL4	0.
VA KTS	1012	TAM	390	TT2	643	MPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	18936	16750	15742	14739	13639	12517	9987	6469
FGT	32208	30122	29014	27981	26911	25790	23259	19735
WAT	245	245	245	245	245	245	245	245
WFT	36944	29193	26117	23234	20636	18132	13323	7339
TSFC	1.996	1.743	1.659	1.589	1.519	1.449	1.336	1.238
BPR	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68
WAT2	555	555	555	555	555	555	555	555
N1	5483	5483	5483	5483	5483	5483	5483	5520
N2	8108	8108	8109	8108	8108	8108	8108	8141
PT30	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.8
PT4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	59.6
TT30	807	807	807	807	807	807	807	816
TT4	1222	1222	1222	1222	1222	1222	1222	1237
PT9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.8
PTD	12.1	12.4	12.5	12.6	12.8	12.9	13.1	14.0
TT9	2002	2002	2002	2002	2002	2002	2002	2001
TTD	3560	3500	2750	2500	2250	2000	1680	816
WAS/WAP	0.0431	0.0465	0.0482	0.0396	0.0386	0.0393	0.0323	0.0280
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2617	2408	2308	2203	2093	1976	1708	1276
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	10.85	9.55	8.98	8.41	7.84	7.28	6.06	4.02

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ALT	55000	MASIZE	.640	PT2/PT2P	0.925	MBL3	3.00
MN	2.00	PAM	1.3	PT2	9.6	MBL4	0.
VA KTS	1147	TAM	390	TT2	702	MPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	22230	19467	18199	16893	15567	14139	11309	6960
FGT	39713	36950	35682	34377	33015	31623	28783	24444
WAT	291	291	291	291	291	291	291	291
WFT	43019	33872	30201	26750	23611	20635	15412	9212
TSFC	1.935	1.740	1.659	1.583	1.520	1.459	1.366	1.295
BPR	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.73
WAT2	515	515	515	515	515	515	515	515
N1	5433	5433	5433	5433	5433	5433	5433	5460
N2	8141	8141	8141	8141	8141	8141	8141	8173
PT30	17.8	17.8	17.8	17.8	17.8	17.8	17.8	18.4
PT4	67.1	67.1	67.1	67.1	67.1	67.1	67.1	69.5
TT30	863	863	863	863	863	863	863	873
TT4	1275	1275	1275	1275	1275	1275	1275	1290
PT9	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.5
PTD	15.6	15.7	15.9	16.0	16.1	16.3	16.5	17.5
TT9	2000	2000	2000	2000	2000	2000	2000	2000
TTD	3560	3000	2750	2500	2250	2000	1591	671
WAS/WAP	0.0413	0.0388	0.0376	0.0363	0.0351	0.0339	0.0317	0.0271
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2617	2408	2308	2203	2093	1976	1736	1314
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	10.27	9.02	8.48	7.96	7.43	6.90	5.87	4.01

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ALT	54000	MASIZE	.640	PT2/PT2P	0.906	MBL3	3.00
MN	2.20	PAM	1.3	PT2	12.9	MBL4	0.
VA KTS	1242	TAM	393	TT2	767	MPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	25922	23384	20410	19191	17526	15788	12757	7763
FGT	48432	44934	43420	41801	40136	38399	35367	30179
WAT	342	342	342	342	342	342	342	342
WFT	49436	38757	34459	30386	26705	23187	17764	10196
TSFC	1.917	1.731	1.655	1.583	1.526	1.469	1.396	1.348
BPR	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.73
WAT2	474	474	474	474	474	474	474	474
N1	5383	5383	5383	5383	5383	5383	5383	5427
N2	8155	8155	8155	8155	8155	8155	8155	8205
PT30	22.9	22.9	22.9	22.9	22.9	22.9	22.9	23.6
PT4	78.9	78.9	78.9	78.9	78.9	78.9	78.9	81.9
TT30	928	928	928	928	928	928	928	937
TT4	1333	1333	1333	1333	1333	1333	1333	1348
PT9	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.7
PTD	20.3	20.6	20.8	21.0	21.1	21.2	21.4	22.5
TT9	1999	1999	1999	1999	1999	1999	1999	1998
TTD	3560	3500	2750	2500	2250	2000	1590	937
WAS/WAP	0.0335	0.0371	0.0340	0.0348	0.0334	0.0425	0.0301	0.0263
VENG	1975	1975	1975	1975	1975	1975	1975	1975
VDUCT	2618	2408	2308	2203	2093	1977	1768	1366
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	9.19	8.10	7.69	7.17	6.71	6.24	5.44	3.81

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ALT	55000	MASIZE	.640	PT2/PT2P	0.870	MBL3	3.00
MN	2.50	PAM	1.3	PT2	19.8	MBL4	0.
VA KTS	1434	TAM	390	TT2	975	MPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	31170	26596	26502	22398	20158	17869	14910	8407
FGT	63330	58756	56662	54618	52318	50030	47070	40568
WAT	428	428	428	428	428	428	428	428
WFT	50361	44004	40666	35603	31236	26674	21578	12122
TSFC	1.704	1.730	1.659	1.592	1.540	1.493	1.467	1.462
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.70
WAT2	412	412	412	412	412	412	412	412
N1	5311	5311	5311	5311	5311	5311	5311	5370
N2	8154	8154	8154	8154	8154	8154	8154	8217
PT30	33.4	33.4	33.4	33.4	33.4	33.4	33.4	34.3
PT4	100.3	100.3	100.3	100.3	100.3	100.3	100.3	104.4
TT30	1041	1041	1041	1041	1041	1041	1041	1056
TT4	1429	1429	1429	1429	1429	1429	1429	1445
PT9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	18.6
PTD	30.5	30.9	31.0	31.2	31.3	31.4	31.6	32.9
TT9	1998	1998	1998	1998	1998	1998	1998	1997
TTD	3560	3000	2750	2500	2250	2000	1693	1050
WAS/WAP	0.0320	0.0347	0.0335	0.0325	0.0314	0.0302	0.0287	0.0253
VENG	1975	1975	1975	1975	1975	1975	1975	1974
VDUCT	2618	2408	2308	2204	2093	1977	1823	1465
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDO	7.97	6.74	6.37	6.00	5.63	5.25	4.76	3.44

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ALT	55000	WASIZE	640	PT2/PT2P	0.846	WBL3	3.00
MN	2.70	PAM	1.1	PT2	26.3	WBL4	0.
VA KTS	1549	TAM	390	TT2	956	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	25508	23922	23172	24777	22109	19335	14615	8919
FGT	76382	70736	68246	65651	62982	60209	57489	46793
WAT	503	503	503	503	503	503	503	503
WFT	67733	61010	65550	59810	54492	29339	24728	13525
TSFC	1.909	1.735	1.666	1.607	1.559	1.517	1.488	1.518
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.70
WAT2	382	382	382	382	382	382	382	382
N1	5274	5274	5274	5274	5274	5274	5274	5339
N2	8214	8214	8214	8214	8214	8214	8214	8256
PT3D	42.5	42.5	42.5	42.5	42.5	42.5	42.5	43.5
PT4	118.5	118.5	118.5	118.5	118.5	118.5	118.5	123.2
TT3D	1121	1121	1121	1121	1121	1121	1121	1129
TT4	1501	1501	1501	1501	1501	1501	1501	1517
PT9	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.8
PTD	39.4	39.8	39.9	40.1	40.2	40.3	40.5	41.9
TT9	1996	1996	1998	1996	1996	1996	1996	1995
TTD	3560	3000	2750	2500	2250	2000	1765	1130
WAS/WAP	0.0354	0.0352	0.0322	0.0312	0.0301	0.0290	0.0279	0.0267
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2419	2408	2308	2204	2094	1977	1861	1498
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	6.30	6.16	5.93	5.50	5.16	4.81	4.47	3.31

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ALT	65003	WASIZE	640	PT2/PT2P	0.962	WBL3	3.00
MN	1.60	PAM	0.8	PT2	3.4	WBL4	0.
VA KTS	1018	TAM	390	TT2	490	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	9690	9566	8166	7665	7159	6621	5765	3559
FGT	15927	14782	14301	13905	13296	12752	11341	9645
WAT	127	127	127	127	127	127	127	127
WFT	19729	17650	16035	12516	11140	9833	7638	4359
TSFC	2.016	1.810	1.714	1.632	1.558	1.489	1.342	1.225
BPR	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.64
WAT2	591	591	591	591	591	591	591	591
N1	5610	5610	5610	5610	5610	5610	5610	5645
N2	7976	7976	7976	7976	7976	7976	7976	8003
PT3D	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.2
PT4	30.2	30.2	30.2	30.2	30.2	30.2	30.2	31.6
TT3D	753	753	753	753	753	753	753	762
TT4	1174	1174	1174	1174	1174	1174	1174	1189
PT9	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.7
PTD	5.7	5.9	6.0	6.0	6.1	6.2	6.3	6.8
TT9	2007	2007	2007	2007	2007	2007	2007	2007
TTD	3560	3000	2750	2500	2250	2000	1765	762
WAS/WAP	0.0443	0.0422	0.0405	0.0390	0.0381	0.0369	0.0333	0.0289
VENG	1979	1979	1979	1979	1975	1979	1979	1579
VDUCT	2417	2407	2307	2203	2093	1976	1671	1234
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.60	10.17	9.55	8.94	8.32	7.70	6.23	4.05

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ALT	65000	WASIZE	640	PT2/PT2P	0.956	WBL3	3.00
MN	1.70	PAM	0.8	PT2	3.9	WBL4	0.
VA KTS	975	TAM	390	TT2	616	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	10509	9336	8793	8236	7457	7050	5594	3659
FGT	17610	16457	15915	15347	14775	14172	12715	10180
WAT	139	139	139	139	139	139	139	139
WFT	20976	16696	14956	13328	11844	10433	7580	4592
TSFC	1.936	1.788	1.701	1.618	1.547	1.480	1.355	1.255
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.70
WAT2	573	573	573	573	573	573	573	573
N1	5519	5519	5519	5519	5519	5519	5519	5555
N2	8012	8012	8012	8012	8012	8012	8012	8045
PT3D	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.9
PT4	32.3	32.3	32.3	32.3	32.3	32.3	32.3	33.5
TT3D	775	775	775	775	775	775	775	784
TT4	1195	1195	1195	1195	1195	1195	1195	1210
PT9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.1
PTD	6.3	6.4	6.5	6.6	6.7	6.7	6.9	7.4
TT9	2008	2008	2008	2008	2008	2008	2008	2007
TTD	3560	3000	2750	2500	2250	2000	1751	784
WAS/WAP	0.0441	0.0414	0.0401	0.0388	0.0375	0.0361	0.0328	0.0284
VENG	1979	1979	1979	1975	1979	1979	1979	1979
VDUCT	2417	2408	2308	2203	2093	1976	1691	1251
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	11.76	10.32	9.69	9.06	8.44	7.81	6.42	4.17

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ALT	65000	WASIZE	640	PT2/PT2P	0.945	WBL3	3.00
MN	1.80	PAM	0.8	PT2	4.5	WBL4	0.
VA KTS	1032	TAM	390	TT2	663	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	11458	10124	9509	8877	8427	7535	5960	3783
FGT	19699	18354	17739	17107	16492	15765	14190	12017
WAT	152	152	152	152	152	152	152	152
WFT	22825	18071	16160	14364	12750	11193	8166	4852
TSFC	1.932	1.785	1.699	1.619	1.551	1.485	1.330	1.283
BPR	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.75
WAT2	555	555	555	555	555	555	555	555
N1	5464	5464	5464	5464	5464	5464	5464	5459
N2	8060	8060	8060	8060	8060	8060	8060	8076
PT3D	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.8
PT4	34.7	34.7	34.7	34.7	34.7	34.7	34.7	36.0
TT3D	799	799	799	799	799	799	799	808
TT4	1218	1218	1218	1218	1218	1218	1218	1233
PT9	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.6
PTD	7.0	7.2	7.3	7.4	7.5	7.5	7.7	8.3
TT9	2007	2007	2007	2007	2007	2007	2007	2007
TTD	3560	3000	2750	2500	2250	2000	1673	808
WAS/WAP	0.0432	0.0409	0.0393	0.0380	0.0367	0.0353	0.0322	0.0278
VENG	1979	1979	1975	1979	1975	1979	1979	1979
VDUCT	2417	2408	2308	2203	2093	1976	1706	1270
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	11.58	10.17	9.55	8.93	8.32	7.71	6.39	4.22

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ALT	65000	WASIZE	640	PT2/PT2P	0.925	WBL3	3.00
MN	2.00	PAM	0.8	PT2	6.0	WBL4	0.
VA KTS	1147	TAM	390	TT2	792	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	13535	11837	11357	10254	9428	8559	6786	4096
FGT	24177	22674	21859	21096	20787	19400	17627	14937
WAT	180	180	180	180	0	180	180	180
WFT	26657	20771	18689	16545	1 .08	12766	9466	5460
TSFC	1.949	1.772	1.699	1.613	1.550	1.488	1.395	1.333
BPR	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.79
WAT2	515	515	515	515	515	515	515	515
N1	5414	5414	5414	5414	5414	5414	5414	5446
N2	8074	8074	8074	8074	8074	8074	8074	8115
PT3D	10.7	10.7	10.7	10.7	10.7	10.7	10.7	11.1
PT4	40.7	40.7	40.7	40.7	40.7	40.7	40.7	42.2
TT3D	857	857	857	857	857	857	857	864
TT4	1271	1271	1271	1271	1271	1271	1271	1286
PT9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.6
PTD	9.1	9.3	9.4	9.5	9.6	9.7	9.8	10.4
TT9	2005	2005	2005	2005	2005	2005	2005	2005
TTD	3560	3000	2750	2500	2250	2000	1525	864
WAS/WAP	0.0414	0.0388	0.0376	0.0364	0.0351	0.0338	0.0311	0.0269
VENG	1978	1978	1978	1978	1978	1978	1978	1978
VDUCT	2617	2408	2308	2203	2093	1976	1733	1313
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.79	9.49	8.86	8.31	7.75	7.20	6.11	4.16

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ALT	6 000	WASIZE	660	PT2/PT2P	0.904	WBL3	3.00
MN	2.20	PAM	0.9	PT2	8.0	WBL4	0.
VA KTS	1262	TAM	390	TT2	967	HPEXT	0.

MAXTHR	MAX D/H					MIN D/H NOT LIT	
FNT	15791	13669	12637	11496	10666	9592	7689	4463
FGT	29812	27689	26717	25717	24687	23612	21709	18483
WAT	212	212	212	212	212	212	212	212
WFT	30799	24026	21365	18816	16529	14337	10930	6206
TSFC	1.945	1.758	1.681	1.609	1.550	1.495	1.422	1.391
BPR	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.79
WAT2	474	474	474	474	474	474	474	474
N1	5359	5359	5359	5359	5359	5359	5359	5398
N2	8091	8091	8091	8091	8091	8091	8091	8141
PT3D	13.8	13.8	13.8	13.8	13.8	13.8	13.8	14.3
PT4	47.9	47.9	47.9	47.9	47.9	47.9	47.9	49.7
TT3D	922	922	922	922	922	922	922	930
TT4	1329	1329	1329	1329	1329	1329	1329	1344
PT9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.9
PTD	12.1	12.4	12.5	12.6	12.6	12.7	12.9	13.5
TT9	2005	2005	2005	2005	2005	2005	2005	2004
TTD	3560	3000	2750	2500	2250	2000	1565	930
WAS/WAP	0.0396	0.0372	0.0360	0.0348	0.0336	0.0323	0.0301	0.0262
VENG	1978	1978	1978	1978	1978	1978	1978	1978
VDUCT	2618	2408	2308	2203	2093	1977	1765	1362
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.51	8.41	7.92	7.44	6.96	6.47	5.63	3.93

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	65000	MASIZE	640	PT2/PT2P	0.870	MBL3	3.00	
MO	2.50	PAM	0.8	PT2	12.3	MBL4	0.	
VA KTS	1494	TAM	390	TT2	875	MPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	19149	16315	15014	13454	12318	10898	9028	6975
FGT	39372	36258	34996	33428	32261	30841	28970	26516
WAT	265	265	265	265	265	265	265	265
WFT	38455	28951	25215	22075	19210	16512	13283	7389
TSFC	1.925	1.750	1.679	1.613	1.561	1.515	1.472	1.406
BPR	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.75
WAT2	412	412	412	412	412	412	412	412
N1	5281	5281	5281	5281	5281	5281	5261	5332
N2	8099	8099	8099	8099	8095	8099	8099	8161
PT3D	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.8
PT4	61.0	61.0	61.0	61.0	61.0	61.0	61.0	63.4
TT3D	1035	1035	1035	1035	1035	1035	1035	1044
TT4	1425	1425	1425	1425	1425	1425	1425	1461
PT9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.1
PTD	18.4	18.7	18.8	18.9	19.0	19.0	19.1	19.9
TT9	2003	2003	2003	2003	2003	2003	2003	2002
TTD	3560	3000	2750	2500	2250	2000	1687	1044
WAS/WAP	0.0370	0.0348	0.0337	0.0326	0.0314	0.0302	0.0287	0.0252
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2618	2408	2308	2204	2093	1977	1820	1441
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.80	6.94	6.56	6.18	5.79	5.40	4.88	3.53

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ALT	65000	MASIZE	640	PT2/PT2P	0.848	MBL3	3.00	
MO	2.70	PAM	0.8	PT2	16.3	MBL4	0.	
VA KTS	1564	TAM	390	TT2	954	MPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	21656	18388	16805	15194	13936	11813	10087	9284
FGT	43202	40334	42141	40937	38992	37159	35631	30830
WAT	312	312	312	312	312	312	312	312
WFT	42129	32256	28273	24498	21361	18176	15265	8258
TSFC	1.971	1.753	1.682	1.626	1.578	1.539	1.511	1.563
BPR	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.75
WAT2	382	382	382	382	382	382	382	382
N1	5239	5238	5238	5238	5238	5238	5238	5293
N2	8173	8173	8173	8173	8173	8173	8173	8213
PT3D	25.9	25.9	25.9	25.9	25.9	25.9	25.9	26.5
PT4	72.2	72.2	72.2	72.2	72.2	72.2	72.2	74.9
TT3D	1116	1116	1116	1116	1116	1116	1116	1126
TT4	1496	1496	1496	1496	1496	1496	1496	1512
PT9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.3
PTD	23.9	24.1	24.2	24.3	24.4	24.5	24.6	25.4
TT9	2001	2001	2001	2001	2001	2001	2001	2000
TTD	3560	3000	2750	2500	2250	2000	1760	1126
WAS/WAP	0.0395	0.0393	0.0322	0.0312	0.0301	0.0290	0.0278	0.0248
VENG	1977	1977	1977	1977	1977	1977	1977	1976
VDUCT	2418	2408	2308	2204	2094	1977	1858	1494
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	7.09	6.32	5.98	5.64	5.29	4.94	4.58	3.99

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ALT	75000	MASIZE	640	PT2/PT2P	0.925	MBL3	3.00	
MO	2.00	PAM	0.5	PT2	3.7	MBL4	0.	
VA KTS	1154	TAM	395	TT2	711	MPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	8286	7015	6538	6044	5535	5003	3825	2259
FGT	14410	13760	13281	12789	12280	11747	10570	9004
WAT	111	111	111	111	111	111	111	111
WFT	17542	13592	12044	10643	9319	8082	5745	3246
TSFC	2.175	1.938	1.843	1.761	1.684	1.616	1.502	1.437
BPR	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.91
WAT2	515	515	515	515	515	515	515	515
N1	5408	5408	5408	5408	5408	5408	5408	5436
N2	7975	7975	7975	7975	7975	7975	7975	8024
PT3D	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.4
PT4	24.1	24.1	24.1	24.1	24.1	24.1	24.1	25.0
TT3D	854	854	854	854	854	854	854	862
TT4	1276	1276	1276	1276	1276	1276	1276	1290
PT9	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.5
PTD	5.1	5.2	5.3	5.4	5.4	5.5	5.6	6.0
TT9	2012	2012	2012	2012	2012	2012	2012	2011
TTD	3560	3000	2750	2500	2250	2000	1688	862
WAS/WAP	0.0413	0.0387	0.0375	0.0362	0.0349	0.0336	0.0306	0.0266
VENG	1981	1981	1981	1981	1981	1981	1981	1981
VDUCT	2617	2407	2307	2203	2093	1976	1712	1311
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.96	10.48	9.83	9.19	8.55	7.92	6.69	4.51

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ALT	75000	MASIZE	640	PT2/PT2P	0.904	MBL3	3.00	
MO	2.20	PAM	0.5	PT2	5.0	MBL4	0.	
VA KTS	1270	TAM	395	TT2	775	MPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	9465	8142	7546	6930	6297	5635	4458	2470
FGT	18168	16865	16268	15653	15020	14358	13187	11193
WAT	131	131	131	131	131	131	131	131
WFT	18944	14796	13171	11543	10116	8749	6417	3671
TSFC	2.008	1.817	1.734	1.646	1.607	1.529	1.484	1.486
BPR	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.91
WAT2	474	474	474	474	474	474	474	474
N1	5367	5367	5367	5367	5367	5367	5367	5380
N2	7988	7988	7988	7988	7988	7988	7988	8050
PT3D	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.4
PT4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	29.5
TT3D	921	921	921	921	921	921	921	929
TT4	1334	1334	1334	1334	1334	1334	1334	1349
PT9	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.3
PTD	7.0	7.1	7.2	7.3	7.3	7.4	7.5	7.9
TT9	2010	2010	2010	2010	2010	2010	2010	2009
TTD	3560	3000	2750	2500	2250	2000	1984	929
WAS/WAP	0.0395	0.0370	0.0359	0.0347	0.0334	0.0321	0.0298	0.0259
VENG	1980	1980	1980	1980	1980	1980	1980	1980
VDUCT	2618	2408	2308	2203	2093	1977	1765	1361
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.30	9.09	8.55	8.02	7.49	6.96	6.09	4.20

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ALT	75000	MASIZE	640	PT2/PT2P	0.870	MBL3	3.00	
MO	2.50	PAM	0.5	PT2	7.6	MBL4	0.	
VA KTS	1443	TAM	395	TT2	886	MPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	11551	9798	8996	8171	7326	6446	5290	2765
FGT	23959	22206	21402	20579	19734	18854	17698	15174
WAT	164	164	164	164	164	164	164	164
WFT	22760	17581	15501	13544	11776	10076	8069	4380
TSFC	1.970	1.794	1.723	1.658	1.607	1.563	1.525	1.584
BPR	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.86
WAT2	412	412	412	412	412	412	412	412
N1	5261	5261	5261	5261	5261	5261	5261	5301
N2	8036	8036	8036	8036	8036	8036	8036	8087
PT3D	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.4
PT4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	37.8
TT3D	1037	1037	1037	1037	1037	1037	1037	1044
TT4	1431	1431	1431	1431	1431	1431	1431	1446
PT9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.7
PTD	10.9	11.1	11.1	11.2	11.3	11.3	11.4	11.9
TT9	2009	2009	2009	2009	2009	2009	2009	2008
TTD	3560	3000	2750	2500	2250	2000	1688	1044
WAS/WAP	0.0369	0.0346	0.0335	0.0324	0.0313	0.0301	0.0285	0.0254
VENG	1980	1980	1980	1980	1980	1980	1980	1980
VDUCT	2618	2408	2308	2204	2093	1977	1821	1441
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.22	7.30	6.90	6.49	6.08	5.67	5.12	3.71

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ALT	75000	MASIZE	640	PT2/PT2P	0.846	MBL3	3.00	
MO	2.70	PAM	0.5	PT2	10.1	MBL4	0.	
VA KTS	1558	TAM	395	TT2	986	MPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	13224	11075	10094	9094	8066	6998	5930	2951
FGT	28995	26846	25864	24865	23837	22768	21738	18722
WAT	193	193	193	193	193	193	193	193
WFT	26018	19851	17381	15154	13073	11039	9279	4913
TSFC	1.967	1.792	1.722	1.666	1.621	1.585	1.563	1.665
BPR	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85
WAT2	382	382	382	382	382	382	382	382
N1	5205	5205	5205	5205	5205	5205	5205	5253
N2	8137	8137	8137	8137	8137	8137	8137	8173
PT3D	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.9
PT4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	44.8
TT3D	1119	1119	1119	1119	1119	1119	1119	1126
TT4	1503	1503	1503	1503	1503	1503	1503	1518
PT9	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.9
PTD	14.3	14.4	14.5	14.5	14.6	14.6	14.7	15.2
TT9	2007	2007	2007	2007	2007	2007	2007	2006
TTD	3560	3000	2750	2500	2250	2000	1763	1126
WAS/WAP	0.0354	0.0331	0.0321	0.0311	0.0299	0.0288	0.0277	0.0244
VENG	1980	1980	1980	1980	1980	1980	1980	1979
VDUCT	2618	2408	2308	2204	2094	1977	1859	1495
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.40	6.60	6.24	5.88	5.52	5.16	4.77	3.56

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	55000	WASIZE	64C	PT2/PT2P	0.904	WBL3	3.00	
MN	2.20	PAM	1.3	PT2	12.9	WBL4	0.	
VA KTS	1262	TAM	390	TT2	767	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	26022	22554	20966	19332	17651	15897	12821	7570
FGT	48817	45369	43761	42127	40446	38691	35616	30369
WAT	344	344	344	344	344	344	344	344
WFT	50003	39136	34727	30665	26945	23381	17890	10209
TSFC	1.922	1.735	1.659	1.586	1.527	1.471	1.395	1.349
BPR	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.75
WAT2	478	478	478	478	478	478	478	478
N1	5395	5395	5395	5395	5395	5395	5395	5438
N2	8156	8156	8156	8156	8156	8156	8156	8205
PT30	22.8	22.8	22.8	22.8	22.8	22.8	22.8	23.5
PT4	79.1	79.1	79.1	79.1	79.1	79.1	79.1	82.0
TT30	926	926	926	926	926	926	926	935
TT4	1333	1333	1333	1333	1333	1333	1333	1349
PT9	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.7
PTO	20.0	20.0	20.0	20.0	20.0	21.0	21.2	22.3
TT9	2000	2000	2000	2000	2000	2000	2000	1998
TTO	3560	3000	2750	2500	2250	2000	1583	935
WAS/WAP	0.0335	0.0321	0.0360	0.0348	0.0336	0.0323	0.0301	0.0263
VENG	1976	1976	1976	1976	1976	1976	1976	1975
VDUCT	2618	2408	2308	220[illegible]	2093	1977	1767	1369
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.36	8.29	7.81	7.34	6.86	6.38	5.56	3.88

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ALT	55000	WASIZE	64C	PT2/PT2P	0.870	WBL3	3.00	
MN	2.53	PAM	1.3	PT2	19.8	WBL4	0.	
VA KTS	1434	TAM	390	TT2	875	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	32784	27333	25709	23931	21993	18655	15948	8407
FGT	66506	61655	59490	57152	54612	52377	49120	42129
WAT	448	448	448	448	448	448	448	448
WFT	63092	48708	42966	37567	32665	27987	27357	12176
TSFC	1.922	1.744	1.671	1.603	1.541	1.500	1.492	1.464
BPR	1.81	1.83	1.81	1.83	1.81	1.83	1.83	1.81
WAT2	432	432	432	432	432	432	432	432
N1	5374	5374	5374	5374	5374	5374	5374	5411
N2	8155	8155	8155	8155	8155	8155	8155	8213
PT30	32.4	32.4	32.4	32.4	32.4	32.4	32.4	33.1
PT4	101.1	101.1	101.1	101.1	101.1	101.1	101.1	105.1
TT30	1032	1032	1032	1032	1032	1032	1032	1033
TT4	1432	1432	1432	1432	1432	1432	1432	1448
PT9	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.7
PTO	29.0	29.4	29.6	29.8	29.9	30.1	30.3	31.9
TT9	1997	1997	1997	1997	1997	1997	1997	1996
TTO	3560	3000	2750	2500	2250	2000	1683	1019
WAS/WAP	0.0371	0.0358	0.0353	0.0329	0.0314	0.0302	0.0298	0.0291
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2614	2408	2308	2204	2093	1977	1818	1437
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.95	7.99	7.16	6.74	6.31	5.88	5.30	3.82

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ALT	55000	WASIZE	64C	PT2/PT2P	0.846	WBL3	3.00	
MN	2.70	PAM	1.3	PT2	26.3	WBL4	0.	
VA KTS	1548	TAM	390	TT2	954	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	37910	31749	29052	26256	23378	20386	17297	8907
FGT	81066	75056	72309	69513	66634	63643	60554	52163
WAT	533	533	533	533	533	533	533	533
WFT	72859	55594	48684	42449	36626	31070	25813	13597
TSFC	1.927	1.748	1.676	1.617	1.567	1.524	1.492	1.527
BPR	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84
WAT2	404	404	406	404	404	404	404	404
N1	5351	5351	5351	5351	5351	5351	5351	5392
N2	8219	8219	8219	8219	8219	8219	8219	8262
PT30	41.2	41.2	41.2	41.2	41.2	41.2	41.2	42.1
PT4	119.7	119.7	119.7	119.7	119.7	119.7	119.7	124.1
TT30	1108	1108	1108	1108	1108	1108	1108	1116
TT4	1505	1505	1505	1505	1505	1505	1505	1520
PT9	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.9
PTO	37.3	37.8	37.9	38.1	38.3	38.5	38.6	40.1
TT9	1994	1994	1994	1994	1994	1994	1994	1994
TTO	3560	3000	2750	2500	2250	2000	1753	1116
WAS/WAP	0.0355	0.0333	0.0323	0.0312	0.0301	0.0289	0.0278	0.0244
VENG	1973	1973	1973	1973	1973	1973	1973	1973
VDUCT	2618	2408	2308	2204	2093	1977	1854	1489
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	7.92	7.05	6.66	6.27	5.88	5.48	5.07	3.74

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ALT	65000	WASIZE	64C	PT2/PT2P	0.904	WBL3	3.00	
MN	2.20	PAM	0.8	PT2	8.0	WBL4	0.	
VA KTS	1262	TAM	390	TT2	767	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	15910	13770	12789	11780	10741	9656	7228	4465
FGT	30065	27904	26926	25915	24876	23791	21863	18800
WAT	214	214	214	214	214	214	214	214
WFT	31016	24256	21544	18986	16672	14455	10997	6214
TSFC	1.950	1.762	1.685	1.612	1.552	1.497	1.423	1.397
BPR	1.92	1.82	1.82	1.82	1.82	1.82	1.82	1.81
WAT2	478	478	478	478	478	478	478	478
N1	5374	5374	5374	5374	5374	5374	5374	5410
N2	8092	8092	8092	8092	8092	8092	8092	8140
PT30	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.2
PT4	48.0	48.0	48.0	48.0	48.0	48.0	48.0	49.8
TT30	921	921	921	921	921	921	921	928
TT4	1330	1330	1330	1330	1330	1330	1330	1345
PT9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.9
PTO	12.0	12.2	12.3	12.4	12.5	12.6	12.7	13.4
TT9	2004	2004	2004	2004	2004	2004	2004	2004
TTO	3560	3000	2750	2500	2250	2000	1583	928
WAS/WAP	0.0336	0.0322	0.0360	0.0349	0.0336	0.0323	0.0301	0.0262
VENG	1978	1978	1978	1978	1978	1978	1978	1978
VDUCT	2618	2408	2308	2203	2093	1977	1765	1360
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	9.74	8.61	8.11	7.61	7.12	6.62	5.75	4.03

OCT 4, 1964

ALT	65000	WASIZE	64C	PT2/PT2P	0.870	WBL3	3.00	
MN	2.50	PAM	0.8	PT2	12.3	WBL4	0.	
VA KTS	1434	TAM	390	TT2	875	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	20131	17129	15752	14360	12889	11380	9328	4680
FGT	41044	38040	36662	35250	33800	32290	30238	25891
WAT	278	278	278	278	278	278	278	278
WFT	39117	30220	26647	23285	20237	17326	13767	7434
TSFC	1.943	1.764	1.692	1.624	1.570	1.523	1.476	1.493
BPR	1.98	1.88	1.88	1.88	1.88	1.88	1.88	1.86
WAT2	432	432	432	432	432	432	432	432
N1	5355	5355	5355	5355	5355	5355	5355	5392
N2	8099	8098	8098	8098	8099	8098	8099	8162
PT30	19.7	19.7	19.7	19.7	19.7	19.7	19.7	20.2
PT4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	64.0
TT30	1025	1025	1025	1025	1025	1025	1025	1033
TT4	1429	1429	1429	1429	1429	1429	1429	1444
PT9	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.4
PTO	17.9	17.9	17.9	18.0	18.1	18.2	18.3	19.2
TT9	2002	2002	2002	2002	2002	2002	2002	2001
TTO	3560	3000	2750	2500	2250	2000	1678	1023
WAS/WAP	0.0372	0.0348	0.0337	0.0326	0.0315	0.0302	0.0286	0.0250
VENG	1977	1977	1977	1977	1977	1977	1977	1976
VDUCT	2618	2408	2308	2204	2093	1977	1815	1434
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.81	7.81	7.37	6.94	6.50	6.05	5.44	3.92

OCT 4, 1964

ALT	65000	WASIZE	64C	PT2/PT2P	0.846	WBL3	3.00	
MN	2.70	PAM	0.8	PT2	16.3	WBL4	0.	
VA KTS	1548	TAM	390	TT2	954	HPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	23263	19640	17838	16104	14316	12463	10512	5290
FGT	50087	46364	44661	42927	41142	39206	37336	32114
WAT	330	330	330	330	330	330	330	330
WFT	45240	34600	30203	26325	22704	19248	15922	8319
TSFC	1.945	1.766	1.693	1.634	1.586	1.544	1.515	1.572
BPR	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89
WAT2	404	404	404	404	404	404	404	404
N1	5331	5331	5331	5331	5331	5331	5331	5371
N2	8180	8180	8180	8180	8180	8180	8180	8239
PT30	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.6
PT4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	75.7
TT30	1104	1104	1104	1104	1104	1104	1104	1111
TT4	1501	1501	1501	1501	1501	1501	1501	1516
PT9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.4
PTO	22.6	22.9	23.0	23.2	23.3	23.4	23.5	24.4
TT9	2000	2000	2000	2000	2000	2000	2000	1999
TTO	3560	3000	2750	2500	2250	2000	1749	1111
WAS/WAP	0.0356	0.0334	0.0323	0.0312	0.0301	0.0290	0.0277	0.0244
VENG	1976	1975	1976	1976	1976	1976	1976	1976
VDUCT	2618	2408	2308	2204	2093	1977	1852	1485
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.12	7.22	6.82	6.42	6.02	5.61	5.18	3.82

OCT 4, 1964

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DOWNGRADED AT 3 YEAR INTERVALS -
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

ALT	35000	WASIZE	640	PT2/PT2P	0.904	WBL3	3.00
MO	2.20	PAM	0.5	PT2	5.0	WBL4	0.
VA KTS	1270	TAM	395	TT2	776	HPEXT	0.

PARTHR	MAX D/H						MIN D/H NOT LIT
FNT	9906	8195	7496	6976	6536	5668	4675	2671
FGT	18100	16289	16138	15768	15130	14462	13270	11265
WAT	132	132	132	132	132	132	132	132
WFT	19154	14919	13747	11651	10207	8826	6858	3678
TSFC	2.315	1.929	1.744	1.671	1.611	1.557	1.489	1.488
BPR	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.93
MAT2	478	478	478	478	478	478	478	478
N1	5362	5362	5362	5362	5362	5362	5362	5397
N2	7987	7987	7987	7987	7987	7987	7987	8050
PT30	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.3
PT4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	29.6
TT30	919	919	919	919	919	919	919	927
TT4	1335	1335	1335	1335	1335	1335	1335	1350
PT9	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.3
PTO	6.9	7.0	7.1	7.2	7.2	7.3	7.4	7.8
TT9	2013	2010	2010	2010	2010	2010	2010	2009
TTO	3560	3000	2790	2500	2250	2020	1582	927
WAS/WAP	0.0395	0.0371	0.0359	0.0367	0.0394	0.0421	0.0298	0.0258
VENG	1981	1981	1981	1981	1981	1981	1981	1980
VOUCT	2618	2408	2308	2203	2093	1971	1766	1359
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOO	10.62	9.36	8.80	8.25	7.70	7.15	6.20	4.29

OCT 4, 1966

ALT	35000	WASIZE	640	PT2/PT2P	0.870	WBL3	3.00
MO	2.50	PAM	0.5	PT2	7.6	WBL4	0.
VA KTS	1443	TAM	395	TT2	898	HPEXT	0.

PARTHR	MAX D/H						MIN D/H NOT LIT
FNT	12135	10283	9437	8961	7865	6781	5470	2773
FGT	25145	23295	22461	21971	20675	19742	18481	15783
WAT	172	172	172	172	172	172	172	172
WFT	26136	18598	16376	14281	12386	10573	8370	4614
TSFC	1.988	1.809	1.736	1.668	1.616	1.571	1.530	1.592
BPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
MAT2	432	432	432	432	432	432	432	432
N1	5369	5369	5369	5369	5369	5369	5369	5383
N2	8040	8040	8040	8040	8040	8040	8040	8090
PT30	11.7	11.7	11.7	11.7	11.7	11.7	11.7	12.1
PT4	36.8	36.8	36.8	36.8	36.8	36.8	36.8	38.2
TT30	1027	1027	1027	1027	1027	1027	1027	1035
TT4	1436	1436	1436	1436	1436	1436	1436	1459
PT9	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.8
PTO	10.5	10.6	10.6	10.7	10.7	10.8	10.9	11.4
TT9	2007	2007	2007	2007	2007	2007	2007	2006
TTO	3590	3000	2790	2960	2290	2000	1690	1035
WAS/WAP	0.0370	0.0347	0.0336	0.0369	0.0413	0.0301	0.0286	0.0248
VENG	1979	1979	1979	1979	1979	1979	1979	1979
VOUCT	2619	2408	2308	2204	2092	1977	1816	1435
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOO	9.29	8.22	7.75	7.29	6.82	6.35	5.72	4.12

OCT 4, 1966

ALT	35000	WASIZE	640	PT2/PT2P	0.846	WBL3	3.00
MO	2.70	PAM	0.5	PT2	10.1	WBL4	0.
VA KTS	1559	TAM	395	TT2	966	HPEXT	0.

PARTHR	MAX D/H							MIN D/H NOT LIT
FNT	14068	11769	10712	9639	8536	7435	6193	2960
FGT	30758	29455	27401	26328	25227	24076	22983	19650
WAT	234	204	204	204	204	204	204	204
WFT	27918	21235	18560	16147	13893	11743	9659	4963
TSFC	1.945	1.805	1.733	1.675	1.628	1.590	1.546	1.677
BPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
MAT2	404	404	404	404	404	404	404	404
N1	5315	5315	5315	5315	5315	5315	5315	5358
N2	8146	8146	8146	8146	8146	8146	8146	8183
PT30	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.4
PT4	43.9	43.9	43.9	43.5	43.9	43.9	43.9	45.5
TT30	1107	1107	1107	1107	1107	1107	1107	1114
TT4	1509	1509	1509	1509	1509	1509	1509	1524
PT9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.0
PTO	13.5	13.7	13.7	13.8	13.9	14.0	14.0	14.6
TT9	2004	2005	2005	2005	2005	2005	2005	2004
TTO	3560	3000	2750	2500	2250	2000	1752	1315
WAS/WAP	0.0355	0.0332	0.0322	0.0311	0.03CC	0.0288	0.0276	0.0242
VENG	1977	1978	1978	1978	1978	1978	1978	1978
VOUCT	2618	2408	2308	2204	2093	1977	1856	1488
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOO	8.48	7.54	7.12	6.70	6.28	5.85	5.40	3.98

OCT 4, 1966

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ALT	55000	MASIZE		A4C	PT2/PT2P	0.904	MRL3	3.00
MN	2.20	PAM		1.3	PT2	12.9	MRL4	0.
VA KTS	1262	TAM		390	TT2	767	MPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	25515	22125	20971	18975	17374	15623	12654	7557
FGT	67456	64467	62908	61312	59871	57560	54995	49496
WAT	337	337	337	337	337	337	337	337
WFT	48761	38195	33984	29974	26162	22903	17427	10141
TSFC	1.731	1.726	1.693	1.710	1.691	1.666	1.593	1.367
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.71
WAT2	468	468	468	466	468	468	468	468
N1	5367	5367	5367	5367	5367	5367	5367	5416
N2	8156	8156	8156	8156	8156	8156	8156	8205
PT3D	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.8
PT4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	81.7
TT3D	931	931	931	931	931	931	931	940
TT4	1332	1332	1332	1332	1332	1332	1332	1368
PT9	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.6
PTD	21.6	21.6	21.7	21.7	21.8	21.8	21.7	22.7
TT9	2000	2000	2000	2000	2000	2000	2000	1959
TTD	3560	3300	2750	2500	2250	2000	1593	940
WAS/WAP	0.0395	0.0371	0.0359	0.0348	0.0338	0.0323	0.0302	0.0264
VENG	1976	1976	1976	1975	1975	1976	1976	1975
VDUCT	2618	2408	2308	2203	2093	1977	1770	1369
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.83	7.83	7.39	6.94	6.50	6.05	5.28	3.71

OCT 4, 1964

ALT	55000	MASIZE		A4C	PT2/PT2P	0.876	MRL3	3.00
MN	2.52	PAM		1.3	PT2	12.9	MRL4	0.
VA KTS	1416	TAM		390	TT2	875	MPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	29880	25435	23539	21815	19424	17257	14511	9444
FGT	60844	58099	56833	52484	50607	48231	45511	40417
WAT	412	412	412	412	412	412	412	412
WFT	56476	43900	38455	34051	29734	25672	21062	13132
TSFC	1.945	1.919	1.896	1.868	1.833	1.788	1.665	1.437
BPR	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.60
WAT2	397	397	397	397	397	397	397	397
N1	5246	5296	5296	5296	5236	5296	5296	5361
N2	8152	8152	8152	8152	8152	8152	8152	8216
PT3D	34.2	34.2	34.2	34.2	34.2	34.2	34.2	35.2
PT4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	104.6
TT3D	1051	1051	1051	1051	1051	1051	1051	1061
TT4	1428	1428	1428	1428	1428	1428	1428	1447
PT9	17.8	17.8	17.8	17.8	17.8	17.8	17.8	18.6
PTD	32.7	32.0	32.2	32.2	32.4	32.5	32.6	34.0
TT9	1998	1998	1998	1998	1998	1998	1998	1996
TTD	3560	3300	2750	2500	2250	2000	1752	1061
WAS/WAP	0.0368	0.0346	0.0334	0.0324	0.0314	0.0302	0.0280	0.0259
VENG	1975	1975	1975	1975	1975	1975	1975	1974
VDUCT	2618	2408	2308	2204	2093	1977	1778	1453
AJCOE	5.23	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCOD	8.87	8.11	7.80	7.47	7.15	6.79	6.36	5.15

OCT 4, 1964

ALT	55000	MASIZE		A4C	PT2/PT2P	0.866	MRL3	3.00
MN	2.70	PAM		1.3	PT2	26.3	MRL4	0.
VA KTS	1548	TAM		390	TT2	954	MPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	32429	27434	25156	22860	20659	17986	15769	9437
FGT	70321	65327	63048	60752	58351	55879	53667	46329
WAT	466	466	466	466	466	466	466	466
WFT	61126	47098	41476	36402	31667	27149	23407	12392
TSFC	1.885	1.737	1.669	1.594	1.548	1.509	1.456	1.516
BPR	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.54
WAT2	354	354	354	354	354	354	354	354
N1	5291	5291	5291	5291	5291	5291	5291	5303
N2	8211	8211	8211	8211	8211	8211	8211	8194
PT3D	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.7
PT4	118.7	118.7	118.7	118.7	118.7	118.7	118.7	120.3
TT3D	1143	1143	1143	1143	1143	1143	1143	1145
TT4	1502	1502	1502	1502	1502	1502	1502	1507
PT9	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.2
PTD	42.2	42.5	42.6	42.7	42.8	42.9	43.0	43.5
TT9	1996	1996	1996	1996	1996	1996	1996	1951
TTD	3560	3300	2750	2500	2250	2000	1785	1144
WAS/WAP	0.0351	0.0330	0.0321	0.0311	0.0300	0.0289	0.0280	0.0268
VENG	1974	1974	1976	1974	1974	1974	1974	1953
VDUCT	2618	2408	2309	2204	2096	1977	1871	1507
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCOD	5.69	5.10	4.83	4.56	4.28	4.00	3.74	2.87

OCT 4, 1964

ALT	65000	MASIZE		A4C	PT2/PT2P	0.904	MRL3	3.00
MN	2.20	PAM		0.9	PT2	8.0	MRL4	0.
VA KTS	1262	TAM		390	TT2	767	MPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	15609	13513	12554	11567	10552	9493	7629	4457
FGT	29459	27364	26405	25418	24403	23364	21490	18308
WAT	209	209	209	209	209	209	209	209
WFT	16248	13681	12047	10562	10314	14161	10931	6193
TSFC	1.918	1.752	1.677	1.605	1.546	1.492	1.429	1.385
BPR	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.77
WAT2	468	468	468	468	468	468	468	468
N1	5338	5338	5338	5338	5338	5338	5338	5381
N2	8091	8091	8091	8091	8091	8091	8091	8061
PT3D	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.4
PT4	47.7	47.7	47.7	47.7	47.7	47.7	47.7	49.5
TT3D	925	925	925	925	925	925	925	933
TT4	1328	1328	1328	1328	1328	1328	1328	1361
PT9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.9
PTD	12.3	12.6	12.7	12.8	12.8	12.9	13.0	13.7
TT9	2005	2335	2004	2005	2005	2005	2005	2004
TTD	3560	3300	2750	2500	2250	2000	1747	933
WAS/WAP	0.0196	0.0171	0.0160	0.0348	0.0138	0.0123	0.0101	0.0082
VENG	1978	1978	1978	1978	1978	1978	1978	1978
VDUCT	2618	2408	2308	2203	2093	1977	1767	1364
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.18	8.13	7.66	7.20	6.74	6.27	5.46	3.82

OCT 4, 1964

ALT	65000	MASIZE		A4C	PT2/PT2P	0.870	MRL3	3.00
MN	2.49	PAM		0.8	PT2	12.1	MRL4	0.
VA KTS	1434	TAM		390	TT2	875	MPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	18366	15665	14625	13565	11868	10519	8792	4982
FGT	37571	34972	33631	32372	31075	29726	27998	24188
WAT	255	255	255	255	255	255	255	255
WFT	35116	27268	24021	21148	18661	15894	12923	7378
TSFC	1.912	1.761	1.685	1.606	1.556	1.511	1.470	1.481
BPR	1.69	1.69	1.69	1.69	1.65	1.69	1.69	1.66
WAT2	397	397	397	397	397	397	397	397
N1	5245	5245	5245	5245	5245	5245	5245	5320
N2	8046	8096	8096	8096	8096	8096	8096	8156
PT3D	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.3
PT4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	65.3
TT3D	1044	1044	1044	1044	1044	1044	1044	1054
TT4	1423	1423	1423	1423	1423	1423	1423	1460
PT9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	11.3
PTD	19.1	19.3	19.4	19.5	19.6	19.6	19.7	20.6
TT9	2004	2004	2004	2004	2004	2004	2004	2002
TTD	3560	3300	2750	2500	2250	2000	1695	1054
WAS/WAP	0.0369	0.0347	0.0336	0.0325	0.0314	0.0303	0.0288	0.0256
VENG	1974	1978	1978	1978	1978	1978	1978	1977
VDUCT	2618	2408	2308	2206	2093	1977	1874	1448
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCOD	7.10	6.53	6.59	6.65	6.30	4.94	4.64	3.24

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ALT	65000	MASIZE		A4C	PT2/PT2P	0.846	MRL3	3.00
MN	2.70	PAM		0.8	PT2	16.3	MRL4	0.
VA KTS	1548	TAM		390	TT2	954	MPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	19771	16962	15644	14003	12520	10981	9564	5272
FGT	41667	40352	38961	37659	36017	34477	33059	24768
WAT	289	289	289	289	289	289	289	289
WFT	38040	29472	25763	22595	19639	16812	14422	9126
TSFC	1.904	1.736	1.664	1.614	1.569	1.532	1.509	1.551
BPR	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.56
WAT2	354	354	354	354	354	354	354	354
N1	5233	5233	5233	5233	5233	5233	5233	5296
N2	8169	8169	8169	8169	8169	8169	8169	8198
PT3D	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.6
PT4	72.1	72.1	72.1	72.1	72.1	72.1	72.1	74.6
TT3D	1136	1136	1136	1136	1136	1136	1136	1143
TT4	1496	1496	1496	1496	1496	1496	1496	1511
PT9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.2
PTD	25.6	25.8	25.9	26.0	26.0	26.1	26.1	26.8
TT9	2001	2001	2001	2001	2001	2001	2001	1993
TTD	3560	3300	2750	2500	2250	2000	1719	1143
WAS/WAP	0.0352	0.0331	0.0321	0.0311	0.0301	0.0290	0.0260	0.0249
VENG	1977	1977	1977	1977	1977	1977	1977	1975
VDUCT	2618	2408	2309	2204	2094	1977	1868	1507
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.19
AJCOD	5.65	5.26	5.06	4.88	4.68	4.48	4.11	3.04

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAW, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	35000	MACH/FF	.640	PT2/PT2P	0.904	WBL3	3.00	
MU	2.00	PAM	0.5	PT2	5.0	WBL4	0.	
VA KTS	1270	TAM	395	TT2	778	WPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNC	9162	8055	7465	6858	6232	5579	4424	2468
FGT	17959	16672	16083	15475	14850	14197	13041	11085
WAT	129	129	129	129	129	129	129	129
WFT	18696	16596	12942	11391	9987	8643	6556	3661
TSFC	2.000	1.811	1.734	1.661	1.602	1.549	1.482	1.484
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.89
WAT2	468	468	468	468	468	468	468	468
N1	5321	5321	5321	5321	5321	5321	5321	5357
N2	7987	7987	7987	7987	7987	7987	7987	8050
PT30	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.5
PT4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.4
TT30	923	923	923	923	923	923	923	951
TT4	1332	1332	1332	1332	1332	1332	1332	1367
PT9	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.3
PT0	7.1	7.3	7.3	7.4	7.5	7.5	7.6	8.0
TT9	2011	2011	2011	2011	2011	2011	2011	2010
TTO	3540	3220	2750	2500	2250	2000	1585	631
WAS/WAP	0.0199	0.0170	0.0353	0.0347	0.0334	0.0321	0.0239	0.0259
VENG	1981	1981	1981	1981	1981	1981	1981	1981
VDUCT	2618	2408	2308	2203	2093	1977	1764	1362
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.33	8.18	8.25	7.75	7.25	6.74	5.86	4.07

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ALT	35000	MACH/FF	.640	PT2/PT2P	0.870	WBL3	3.00	
MU	2.00	PAM	0.5	PT2	7.6	WBL4	0.	
VA KTS	1443	TAM	395	TT2	884	WPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	11085	9412	8662	7861	7055	6218	5144	2759
FGT	21936	21362	20593	19811	19006	18168	17045	14304
WAT	158	158	158	158	158	158	158	158
WFT	21712	18808	16778	12983	11303	9879	7941	4357
TSFC	1.959	1.786	1.710	1.652	1.602	1.560	1.524	1.580
BPR	1.90	1.89	1.80	1.80	1.80	1.80	1.80	1.78
WAT2	397	397	397	397	397	397	397	397
N1	5198	5198	5198	5198	5198	5198	5198	5251
N2	8031	8031	8031	8031	8031	8031	8031	8083
PT30	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.7
PT4	36.0	36.0	36.0	36.0	36.0	36.0	36.0	37.5
TT30	1044	1044	1044	1044	1044	1044	1044	1093
TT4	1428	1428	1428	1428	1428	1428	1428	1493
PT9	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.7
PTO	11.3	11.5	11.5	11.7	11.8	11.7	11.7	12.2
TT9	2010	2010	2010	2010	2010	2010	2010	2009
TTO	3960	3000	2750	2500	2250	2000	1695	1053
WAS/WAP	0.0368	0.0346	0.0335	0.0324	0.0313	0.0301	0.0286	0.0251
VENG	1981	1981	1981	1981	1981	1981	1981	1980
VDUCT	2618	2408	2308	2204	2093	1977	1824	1447
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.50	6.66	6.31	5.95	5.59	5.20	4.72	3.19

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ALT	35000	MACH/FF	.640	PT2/PT2P	0.846	WBL3	3.00	
MU	2.00	PAM	0.5	PT2	10.1	WBL4	0.	
VA KTS	1558	TAM	395	TT2	966	WPEXT	0.	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	12091	10554	9276	8378	7454	6495	5613	2570
FGT	26713	24779	23896	22998	22074	21115	20233	17590
WAT	179	179	179	179	179	179	177	179
WFT	23343	19059	15962	13978	12029	10263	8765	4898
TSFC	1.947	1.778	1.710	1.657	1.614	1.580	1.562	1.649
BPR	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.65
WAT2	354	354	354	354	354	354	354	354
N1	5157	5157	5157	5157	5157	5157	5157	5225
N2	8131	8131	8131	8131	8131	8131	8131	8168
PT30	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.6
PT4	42.9	42.9	42.9	42.9	42.9	42.9	42.9	44.8
TT30	1137	1137	1137	1137	1137	1137	1137	1146
TT4	1500	1500	1500	1500	1500	1500	1500	1517
PT9	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.9
PTO	15.3	15.4	15.4	15.5	15.6	15.6	15.6	16.1
TT9	2008	2008	2008	2008	2008	2008	2008	2007
TTO	4560	3000	2750	2500	2250	2000	1779	1146
WAS/WAP	0.0351	0.0330	0.0320	0.0310	0.0259	0.0288	0.0278	0.0247
VENG	1980	1980	1980	1980	1980	1980	1980	1979
VDUCT	2618	2408	2309	2204	2094	1977	1868	1508
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	6.15	5.90	5.21	4.92	4.67	4.31	4.03	3.00

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	55000	MASIZE	640	PT2/PT2P	0.904	WBL3	3.00
MO	2.20	PAM	1.5	PT2	12.9	WBL4	0.
VA KTS	1262	TAM	390	TT2	767	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	25274	21832	20259	18831	16959	15213	12064	6784
FGT	47884	44442	42865	41241	39569	37823	34674	29394
WAT	342	342	342	342	342	342	342	342
WFT	69426	58496	54112	49976	46237	42652	36997	9247
TSFC	1.954	1.763	1.689	1.609	1.547	1.489	1.408	1.363
BPR	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.82
WAT2	474	474	474	474	474	474	474	474
N1	5318	5318	5318	5318	5318	5318	5318	5354
N2	8006	8006	8006	8006	8006	8006	8006	8059
PT3D	21.8	21.8	21.8	21.8	21.8	21.8	21.8	22.4
PT4	75.2	75.2	75.2	75.2	75.2	75.2	75.2	78.0
TT3D	915	915	915	915	915	915	915	922
TT4	1315	1315	1315	1315	1315	1315	1315	1329
PT9	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.9
PTD	18.9	19.3	19.4	19.6	19.7	19.9	20.1	21.2
TT9	1921	1921	1921	1921	1921	1921	1921	1920
TTD	3560	3000	2750	2500	2250	2000	1578	923
WAS/WAP	0.0394	0.0370	0.0358	0.0346	0.0334	0.0321	0.0298	0.0258
VENG	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2618	2408	2308	2203	2093	1977	1762	1356
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.99	8.83	8.31	7.80	7.29	6.77	5.87	4.08

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ALT	55000	MASIZE	640	PT2/PT2P	0.870	WBL3	3.00
MO	2.20	PAM	1.5	PT2	19.8	WBL4	0.
VA KTS	1434	TAM	390	TT2	875	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	26458	22850	21234	19775	18054	16261	13131	7676
FGT	48219	44610	42994	41435	39715	37965	34846	29594
WAT	429	429	429	429	429	429	429	429
WFT	59213	49649	46029	42677	39431	35993	30412	8534
TSFC	1.931	1.752	1.672	1.611	1.556	1.507	1.453	1.464
BPR	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.79
WAT2	412	412	412	412	412	412	412	412
N1	5234	5234	5234	527	5234	5234	5234	5280
N2	8021	8021	8021	8021	8021	8021	8021	8077
PT3D	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.9
PT4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	99.4
TT3D	1028	1028	1028	1028	1028	1028	1028	1038
TT4	1411	1411	1411	1411	1411	1411	1411	1426
PT9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	17.6
PTD	23.0	29.4	29.5	23.7	29.8	30.0	30.2	31.4
TT9	1919	1919	1919	1919	1919	1919	1919	1918
TTD	3560	3000	2750	2500	2250	2000	1668	1036
WAS/WAP	0.0369	0.0346	0.0335	0.0324	0.0312	0.0300	0.0284	0.0269
VENG	1937	1937	1937	1937	1937	1937	1937	1936
VDUCT	2618	2408	2308	2204	2093	1977	1816	1636
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.33	7.20	6.81	6.41	6.00	5.59	5.05	5.05

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ALT	55000	MASIZE	640	PT2/PT2P	0.846	WBL3	3.00
MO	2.20	PAM	1.5	PT2	26.3	WBL4	0.
VA KTS	1549	TAM	390	TT2	954	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	34955	29131	26757	24614	21443	18642	15757	7687
FGT	55849	50025	47631	45512	42337	39536	36631	29761
WAT	503	503	503	503	503	503	503	503
WFT	67594	51457	46988	43170	39728	28535	23631	12191
TSFC	1.933	1.734	1.682	1.623	1.573	1.531	1.500	1.565
BPR	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.78
WAT2	382	382	382	382	382	382	382	382
N1	5189	5189	5189	5189	5189	5189	5189	5237
N2	8111	8111	8111	8111	8111	8111	8111	8147
PT3D	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.9
PT4	113.4	113.4	113.4	113.4	113.4	113.4	113.4	117.6
TT3D	1109	1109	1109	1109	1109	1109	1109	1116
TT4	1482	1482	1482	1482	1482	1482	1482	1497
PT9	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.7
PTD	37.7	38.1	38.3	38.4	38.6	38.7	38.9	40.2
TT9	1917	1917	1917	1917	1917	1917	1917	1917
TTD	3560	3000	2750	2500	2250	2000	1756	1114
WAS/WAP	0.0353	0.0331	0.0321	0.0310	0.0299	0.0287	0.0276	0.0243
VENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2408	2308	2204	2093	1977	1855	1689
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	7.32	6.93	6.18	5.82	5.46	5.09	4.71	3.49

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ALT	65000	MASIZE	640	PT2/PT2P	0.904	WBL3	3.00
MO	2.20	PAM	0.6	PT2	8.0	WBL4	0.
VA KTS	1262	TAM	390	TT2	767	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	15443	13320	12547	11344	10311	9232	7260	3988
FGT	29464	27341	26368	25365	24332	23253	21280	18008
WAT	212	212	212	212	212	212	212	212
WFT	30469	23867	21138	18565	16238	14008	10445	5629
TSFC	1.986	1.792	1.712	1.636	1.575	1.517	1.439	1.412
BPR	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.88
WAT2	474	474	474	474	474	474	474	474
N1	5300	5300	5300	5300	5300	5300	5300	5333
N2	7935	7935	7935	7935	7935	7935	7935	7993
PT3D	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.9
PT4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	47.4
TT3D	909	909	909	909	909	909	909	917
TT4	1311	1311	1311	1311	1311	1311	1311	1325
PT9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.5
PTD	11.3	11.5	11.6	11.7	11.8	11.9	12.1	12.7
TT9	1925	1925	1925	1925	1925	1925	1925	1925
TTD	3560	3000	2750	2500	2250	2000	1573	917
WAS/WAP	0.0395	0.0370	0.0359	0.0347	0.0334	0.0321	0.0287	0.0257
VENG	1940	1940	1940	1940	1940	1940	1940	1939
VDUCT	2618	2408	2308	2203	2093	1977	1759	1352
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.41	9.19	8.64	8.10	7.57	7.03	6.07	4.24

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ALT	65000	MASIZE	640	PT2/PT2P	0.870	WBL3	3.00
MO	2.50	PAM	0.8	PT2	12.3	WBL4	0.
VA KTS	1414	TAM	390	TT2	875	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	18829	15974	14666	13326	11950	10517	8558	4415
FGT	38770	35917	34608	33269	31892	30460	28500	24357
WAT	265	265	265	265	265	262	265	265
WFT	36758	29322	24934	21747	18857	16096	12700	6679
TSFC	1.952	1.773	1.700	1.632	1.578	1.530	1.486	1.513
BPR	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84
WAT2	412	412	412	412	412	412	412	412
N1	5214	5214	5214	5214	5214	5214	5214	5255
N2	7974	7974	7974	7974	7974	7974	7974	8026
PT3D	19.5	19.5	19.5	19.5	19.5	19.5	19.5	20.0
PT4	58.3	58.3	58.3	58.3	58.3	58.3	58.3	63.5
TT3D	1023	1023	1023	1023	1023	1023	1023	1031
TT4	1407	1407	1407	1407	1407	1407	1407	1422
PT9	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.7
PTD	17.5	17.8	17.9	18.0	18.1	18.2	18.3	19.1
TT9	1924	1924	1924	1924	1924	1924	1924	1923
TTD	3560	3000	2750	2500	2250	2000	1675	1031
WAS/WAP	0.0370	0.0346	0.0335	0.0324	0.0313	0.0300	0.0284	0.0268
VENG	1939	1939	1939	1939	1939	1939	1939	1939
VDUCT	2618	2408	2308	2204	2093	1977	1814	1432
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.34	7.40	6.99	6.58	6.17	5.76	5.17	3.73

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ALT	65000	MASIZE	640	PT2/PT2P	0.846	WBL3	3.00
MO	2.70	PAM	0.8	PT2	16.3	WBL4	0.
VA KTS	1548	TAM	390	TT2	954	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	21518	18025	16429	14804	13131	11393	9569	4670
FGT	46864	43371	41774	40149	38477	36739	34915	30016
WAT	312	312	312	312	312	312	312	312
WFT	41948	31945	27927	24301	20915	17484	14578	7498
TSFC	1.951	1.772	1.700	1.642	1.593	1.552	1.523	1.537
BPR	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.83
WAT2	382	382	382	382	382	382	382	382
N1	5160	5160	5160	5160	5160	5160	5160	5206
N2	8073	8073	8073	8073	8072	8073	8073	8109
PT3D	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.6
PT4	69.2	69.2	69.2	69.2	69.2	69.2	69.2	71.7
TT3D	1104	1104	1104	1104	1104	1104	1104	1111
TT4	1478	1478	1478	1478	1478	1478	1478	1493
PT9	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.6
PTD	22.9	23.1	23.3	23.4	23.4	23.5	23.6	24.5
TT9	1922	1922	1922	1922	1922	1922	1922	1922
TTD	3560	3000	2750	2500	2250	2000	1749	1111
WAS/WAP	0.0394	0.0372	0.0361	0.0350	0.0339	0.0328	0.0309	0.0282
VENG	1938	1938	1938	1938	1938	1938	1938	1938
VDUCT	2618	2408	2308	2204	2093	1977	1852	1494
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	7.41	6.69	6.32	5.96	5.59	5.23	4.81	3.56

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS DOD DIR 5200.10

ALT	75000	WASIZE	640	PT2/PT2P	0.904	WBL3	3.00
MN	2.20	FAN	0.5	PT2	5.0	WBL4	0.
VA KTS	1270	TAN	395	TT2	776	HPEXT	0.
CRUISE	MAX D/H					MIN D/H NOT LFT	
FNT	9211	7913	7518	6704	6070	5407	4192	2186
FGT	17936	16636	16041	15427	14793	14130	12915	10909
WAT	131	131	131	131	131	131	131	131
WFT	18947	14726	13005	11400	9949	8558	6333	3331
TSFC	2.057	1.858	1.777	1.700	1.639	1.583	1.511	1.524
BPR	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.00
WAT2	474	474	474	474	474	474	474	474
N1	5286	5286	5286	5286	5286	5286	5286	5325
N2	7836	7836	7836	7836	7836	7836	7836	7902
PT30	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.0
PT4	27.0	27.0	27.0	27.0	27.0	27.0	27.0	28.1
TT30	909	909	909	909	909	909	909	916
TT4	1316	1316	1316	1316	1316	1316	1316	1351
PT9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0
PT0	6.6	6.6	6.7	6.7	6.8	6.9	7.0	7.4
TT9	1931	1931	1931	1931	1931	1931	1931	1930
TT0	3560	3000	2750	2500	2250	2000	1572	916
WAS/WAP	0.0395	0.0369	0.0357	0.0345	0.0332	0.0319	0.0295	0.0254
VENG	1942	1942	1942	1942	1942	1942	1942	1942
VDUCT	2618	2408	2308	2203	2093	1977	1758	1392
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.11
AJCDO	11.38	10.01	9.39	8.80	8.20	7.61	6.56	4.10

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ALT	75000	WASIZE	640	PT2/PT2P	0.870	WBL3	3.00
MN	2.53	FAN	0.5	PT2	7.6	WBL4	0.
VA KTS	1445	TAN	445	TT2	846	HPEXT	0.
CRUISE	MAX D/H					MIN D/H NOT LFT	
FNT	11350	989	8787	7754	7101	6218	5016	2661
FGT	23758	21937	21190	20362	19511	18611	17022	14451
WAT	144	144	144	144	144	144	144	144
WFT	22678	17410	15327	13539	11961	9324	7205	3367
TSFC	1.998	1.814	1.745	1.677	1.625	1.580	1.563	1.626
BPR	1.95	1.95	1.93	1.95	1.95	1.95	1.95	1.95
WAT2	412	41	412	412	412	412	412	412
N1	5232	5302	5302	5202	5202	5202	5202	5249
N2	7932	7932	7932	7932	7932	7932	7932	7932
PT30	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.9
PT4	36.9	36.9	36.9	36.9	36.5	36.3	36.9	36.1
TT30	1025	1025	1025	1025	1025	1025	1025	1032
TT4	1414	1414	1414	1414	1414	1414	1414	1429
PT9	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.4
PT0	10.4	10.6	10.6	10.7	10.7	10.6	10.6	11.3
TT9	1927	1929	1929	1929	1926	1927	1923	1928
TT0	3560	3000	2750	2500	2250	2000	1678	1047
WAS/WAP	0.0369	0.0345	0.0336	0.0325	0.0311	0.0289	0.0262	0.0240
VENG	1942	1942	1942	1942	1942	1942	1942	1941
VDUCT	2618	2458	2308	2206	2093	1977	1815	1431
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.21	5.21
AJCDO	8.75	7.76	7.32	6.85	6.44	6.00	5.43	3.91

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ALT	75000	WASIZE	640	PT2/PT2P	0.846	WBL3	3.00
MN	2.73	FAN	0.5	PT2	10.1	WBL4	0.
VA KTS	1558	TAN	495	TT2	906	HPEXT	0.
CRUISE	MAX D/H					MIN D/H NOT LFT	
FNT	13017	10454	9865	8859	7822	6745	5629	2592
FGT	20788	26625	25636	24629	23593	22515	21399	18362
WAT	193	193	193	193	193	193	193	193
WFT	25026	19673	17172	14912	12804	10791	8881	4442
TSFC	1.992	1.812	1.740	1.693	1.637	1.600	1.578	1.714
BPR	1.73	1.91	1.73	1.93	1.93	1.93	1.93	1.92
WAT2	342	342	382	382	382	382	382	382
N1	5133	5133	5133	5133	5133	5133	5133	5179
N2	8039	8039	8039	8039	8039	8039	8039	8074
PT30	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.4
PT4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	42.9
TT30	1108	1108	1108	1108	1109	1108	1108	1119
TT4	1485	1485	1485	1485	1485	1485	1485	1500
PT9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.6
PT0	13.7	13.8	13.1	14.0	14.0	14.1	14.2	14.7
TT9	1928	1929	1928	1928	1928	1928	1928	1927
TT0	3560	3000	2750	2500	2250	2000	1752	1119
WAS/WAP	0.0353	0.0330	0.0320	0.0309	0.0299	0.0286	0.0274	0.0240
VENG	1941	1941	1941	1941	1941	1941	1941	1941
VDUCT	2618	2458	2308	2206	2093	1977	1856	1488
AJCDE	5.23	5.23	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	7.82	6.75	6.58	6.20	5.81	5.42	5.01	3.71

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	55000	WASIZE	640	PT2/PT2P	0.904	WBL3	3.00
MN	2.20	PAM	1.3	PT2	12.9	WBL4	0.
VA KTS	1262	TAM	390	TT2	767	HPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	25454	21988	20194	18761	17074	15312	12322	4787
FGT	46052	44783	43193	41555	39668	38107	36916	29582
WAT	344	344	344	344	344	344	344	344
WFT	49226	38969	34434	30750	26468	22842	17097	9261
TSFC	1.761	1.768	1.689	1.612	1.505	1.492	1.410	1.184
BPR	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84
WAT2	478	478	478	478	478	478	478	478
N1	5334	5334	5334	5334	5334	5334	5334	5368
N2	8005	8005	8005	8005	8005	8005	8005	8059
PT30	21.6	21.6	21.6	21.6	21.6	21.6	21.6	22.3
PT4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	78.2
TT30	913	913	913	913	913	913	913	921
TT4	1316	1316	1316	1316	1316	1316	1316	1330
PT9	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.9
PTD	18.6	19.0	19.2	19.4	19.5	19.7	19.9	21.0
TT9	1920	1920	1920	1920	1920	1920	1920	1920
TTD	3560	3000	2750	2500	2250	2000	1576	921
WAS/WAP	0.0345	0.0370	0.0359	0.0344	0.0334	0.0321	0.0274	0.0258
VENG	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2618	2408	2308	2203	2093	1977	1761	1355
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	10.24	9.04	8.50	7.98	7.45	6.93	6.00	4.16

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ALT	55000	WASIZE	640	PT2/PT2P	0.870	WBL3	3.00
MN	2.20	PAM	1.3	PT2	19.8	WBL4	0.
VA KTS	1414	TAM	390	TT2	875	HPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	32234	27317	25101	22915	20695	18008	14900	7479
FGT	45260	43258	42823	40532	39172	37725	36321	31200
WAT	468	468	468	468	468	468	468	468
WFT	62936	54327	42501	37020	32050	27301	21384	11012
TSFC	1.951	1.764	1.693	1.623	1.567	1.516	1.445	1.472
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.89
WAT2	432	432	432	432	432	432	432	432
N1	5317	5317	5317	5317	5317	5317	5317	5352
N2	8022	8022	8022	8022	8022	8022	8022	8073
PT30	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.9
PT4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	100.4
TT30	1018	1018	1018	1018	1018	1018	1018	1026
TT4	1415	1415	1415	1415	1415	1415	1415	1429
PT9	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.7
PTD	23.4	24.1	24.3	24.4	24.6	24.8	25.0	26.2
TT9	1919	1918	1918	1918	1918	1918	1918	1917
TTD	3560	3000	2750	2500	2250	2000	1671	1026
WAS/WAP	0.0373	0.0367	0.0338	0.0324	0.0313	0.0300	0.0274	0.0247
VENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2408	2308	2203	2093	1977	1812	1428
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.17	8.12	7.66	7.20	6.74	6.27	5.63	4.05

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ALT	55000	WASIZE	640	PT2/PT2P	0.846	WBL3	3.00
MN	2.20	PAM	1.3	PT2	26.3	WBL4	0.
VA KTS	1568	TAM	390	TT2	954	HPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	32200	31100	29396	25591	22683	19869	16421	7832
FGT	60456	59416	71653	69818	65940	62926	59678	51139
WAT	533	533	533	533	533	533	533	533
WFT	72607	55105	48105	41749	35885	30259	24710	12784
TSFC	1.952	1.768	1.696	1.634	1.582	1.538	1.505	1.558
BPR	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.91
WAT2	404	404	404	404	404	404	404	404
N1	5287	5287	5287	5287	5287	5287	5287	5324
N2	8116	8116	8116	8116	8116	8116	8116	8152
PT30	39.7	39.7	39.7	39.7	39.7	39.7	39.7	40.6
PT4	114.9	114.9	114.9	114.9	114.9	114.9	114.9	118.9
TT30	1097	1097	1097	1097	1097	1097	1097	1103
TT4	1487	1487	1487	1487	1487	1487	1487	1501
PT9	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.9
PTD	34.1	34.1	36.3	36.5	36.7	36.9	37.1	38.5
TT9	1916	1916	1916	1916	1916	1916	1916	1915
TTD	3560	3000	2750	2500	2250	2000	1743	1104
WAS/WAP	0.0355	0.0332	0.0321	0.0311	0.0299	0.0288	0.0275	0.0241
VENG	1935	1935	1935	1935	1935	1935	1935	1935
VDUCT	2618	2408	2308	2204	2093	1977	1849	1481
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.41	7.47	7.05	6.64	6.22	5.79	5.14	3.94

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ALT	65000	WASIZE	640	PT2/PT2P	0.904	WBL3	3.00
MN	2.20	PAM	0.8	PT2	11.0	WBL4	0.
VA KTS	1262	TAM	390	TT2	767	HPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	15550	13411	12431	11420	10375	9290	7296	3989
FGT	29685	27744	26566	25555	24517	23425	21428	18123
WAT	214	214	214	214	214	214	214	214
WFT	30474	26945	21336	18743	16181	14125	10911	5619
TSFC	1.992	1.797	1.716	1.660	1.624	1.620	1.441	1.414
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90
WAT2	478	478	478	478	478	478	478	478
N1	5317	5317	5317	5317	5317	5317	5317	5340
N2	7937	7937	7937	7937	7937	7937	7937	7993
PT30	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.4
PT4	45.7	45.7	45.7	45.7	45.7	45.7	45.7	47.5
TT30	908	908	908	908	908	908	908	915
TT4	1312	1312	1312	1312	1312	1312	1312	1326
PT9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.5
PTD	11.1	11.4	11.5	11.6	11.7	11.8	11.9	12.6
TT9	1925	1925	1925	1925	1925	1925	1925	1925
TTD	3560	3000	2750	2500	2250	2000	1771	919
WAS/WAP	0.0336	0.0321	0.0317	0.0307	0.0294	0.0281	0.0247	0.0257
VENG	1939	1939	1939	1939	1939	1939	1939	1939
VDUCT	2618	2408	2308	2203	2093	1977	1754	1351
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	10.68	9.62	8.85	8.30	7.75	7.19	6.21	4.80

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ALT	65000	WASIZE	640	PT2/PT2P	0.870	WBL3	3.00
MN	2.50	PAM	0.8	PT2	12.3	WBL4	0.
VA KTS	1434	TAM	390	TT2	875	HPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	19769	16756	15371	13955	12497	10978	8845	4419
FGT	40679	37666	36283	34865	33407	31889	29756	25930
WAT	278	278	278	278	278	278	278	278
WFT	34978	29363	26344	22938	19850	16999	13181	6729
TSFC	1.972	1.788	1.714	1.644	1.588	1.539	1.490	1.523
BPR	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.94
WAT2	432	432	432	432	432	432	432	432
N1	5303	5303	5303	5303	5303	5303	5303	5335
N2	7990	7990	7990	7980	7980	7980	7980	8028
PT30	18.9	18.9	18.9	18.9	18.9	18.9	18.9	19.4
PT4	59.0	59.0	59.0	59.0	59.0	59.0	59.0	61.2
TT30	1014	1014	1014	1014	1014	1014	1014	1021
TT4	1412	1412	1412	1412	1412	1412	1412	1426
PT9	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.8
PTD	16.6	16.9	17.0	17.1	17.2	17.3	17.5	18.3
TT9	1922	1922	1922	1922	1922	1922	1922	1922
TTD	3560	3000	2750	2500	2250	2000	1667	1021
WAS/WAP	0.0371	0.0347	0.0336	0.0325	0.0311	0.0300	0.0283	0.0246
VENG	1938	1938	1938	1938	1938	1938	1938	1938
VDUCT	2618	2408	2308	2203	2093	1977	1810	1425
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	9.42	8.33	7.86	7.39	6.91	6.43	5.76	4.14

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ALT	65000	WASIZE	640	PT2/PT2P	0.846	WBL3	3.00
MN	2.70	PAM	0.8	PT2	16.3	WBL4	0.
VA KTS	1568	TAM	390	TT2	954	HPERT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	22878	19147	17432	15687	13890	12022	9975	4673
FGT	49701	45970	44255	42510	40714	38845	36749	31496
WAT	330	330	330	330	330	330	330	330
WFT	44747	34242	29867	25920	22252	18750	15269	7525
TSFC	1.965	1.789	1.712	1.652	1.602	1.560	1.529	1.610
BPR	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96
WAT2	404	404	404	404	404	404	404	404
N1	5265	5265	5265	5265	5265	5265	5265	5307
N2	8080	8080	8080	8080	8080	8080	8080	8115
PT30	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.7
PT4	70.1	70.1	70.1	70.1	70.1	70.1	70.1	72.6
TT30	1093	1093	1093	1093	1093	1093	1093	1099
TT4	1484	1484	1484	1484	1484	1484	1484	1498
PT9	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.8
PTD	21.6	21.9	22.0	22.2	22.3	22.4	22.5	23.4
TT9	1921	1921	1921	1921	1921	1921	1921	1920
TTD	3560	3000	2750	2500	2250	2000	1739	1069
WAS/WAP	0.0355	0.0333	0.0322	0.0311	0.0300	0.0288	0.0275	0.0240
VENG	1938	1938	1938	1938	1938	1938	1938	1937
VDUCT	2618	2408	2308	2204	2091	1977	1847	1478
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	8.62	7.65	7.22	6.80	6.37	5.93	5.45	4.01

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ALT	75000	WASIZE	A/C	PT2/PT2P	0.996	WBL1	3.00
MN	2.27	PAM	0.5	PT2	5.0	WBL4	0.
VA KTS	1470	TAM	395	TT2	776	HPEXT	0.

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	9264	7359	7360	6742	6104	5436	4207	2184
FGT	1405R	16753	16154	15535	14895	14230	13001	10578
WAT	132	132	132	132	132	132	132	132
WFT	19155	14868	13127	11506	10037	8630	6373	3339
TSFC	2.CAA	1.966	1.784	1.706	1.644	1.588	1.515	1.528
BPR	2.14	2.04	2.04	2.04	2.04	2.04	2.04	2.02
WAT2	478	478	478	478	478	478	478	478
N1	5302	5302	5302	5302	5302	5302	5302	5342
N2	7836	7836	7836	7836	7836	7836	7836	7902
PT30	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
PT4	27.1	27.1	27.1	27.1	27.1	27.1	27.1	28.2
TT30	907	907	907	907	907	907	907	915
TT4	1317	1317	1317	1317	1317	1317	1317	1342
PT9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0
PTD	6.3	6.5	6.6	6.6	6.7	6.8	6.9	7.3
TT9	1931	1931	1931	1931	1931	1931	1931	1930
TTD	3580	3000	2750	2500	2250	2000	1570	915
WAS/WAP	C.0395	0.0369	0.0356	0.0345	0.0332	0.0319	0.0295	0.0256
VENG	1942	1942	1942	1942	1942	1942	1942	1942
VDUCT	2618	2498	2308	2201	2093	1977	1758	1351
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.74	10.31	9.67	9.05	8.44	7.82	6.74	4.60

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ALT	75000	WASIZE	A/C	PT2/PT2P	0.870	WBL1	3.00
MN	2.52	PAM	0.5	PT2	7.6	WBL4	0.
VA KTS	1643	TAM	395	TT2	886	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	11911	10055	9202	8327	7427	6489	4341	2467
FGT	24921	23065	22212	21337	20437	19494	18141	15451
WAT	172	172	172	172	172	172	172	172
WFT	24056	18467	16195	14076	12154	10318	8021	4CCC
TSFC	2.020	1.835	1.760	1.690	1.637	1.593	1.568	1.638
BPR	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.05
WAT2	432	432	432	432	432	432	432	432
N1	5285	5285	5285	5285	5285	5285	5285	5326
N2	7937	7937	7937	7937	7937	7937	7937	7974
PT30	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.6
PT4	35.3	35.3	35.3	35.3	35.3	35.3	35.3	36.6
TT30	1017	1017	1017	1017	1017	1017	1017	1021
TT4	1418	1418	1418	1418	1418	1418	1418	[illegible]
PT9	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.5
PTD	9.8	10.0	10.1	10.1	10.2	10.3	10.4	10.9
TT9	1928	1928	1928	1928	1928	1928	1928	1927
TTD	3540	3000	2750	2500	2250	2000	1470	1023
WAS/WAP	C.0370	0.0346	0.0335	0.0323	0.0311	0.0299	0.0281	0.0244
VENG	1941	1941	1941	1941	1941	1941	1941	1941
VDUCT	2519	2408	2308	2201	2093	1977	1811	1427
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.31	8.77	8.27	7.76	7.26	6.75	6.05	4.35

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ALT	75000	WASIZE	A/C	PT2/PT2P	0.846	WBL3	3.00
MN	2.77	PAM	0.5	PT2	10.1	WBL4	0.
VA KTS	1554	TAM	395	TT2	986	HPEXT	0.

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	13833	11521	10662	9383	8272	7115	5869	2589
FGT	30522	28211	27152	26073	24961	23805	22559	19279
WAT	204	204	204	204	204	204	204	204
WFT	27821	21051	18344	15901	13619	11461	9295	4486
TSFC	2.011	1.827	1.753	1.695	1.646	1.608	1.584	1.733
BPR	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.05
WAT2	404	404	404	404	404	404	404	404
N1	5246	5246	5246	5240	5246	5246	5246	5289
N2	8048	8048	8048	8048	8048	8048	8049	8081
PT30	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.9
PT4	42.1	42.1	42.1	42.1	42.1	42.1	42.1	43.6
TT30	1097	1097	1097	1097	1097	1097	1097	1104
TT4	1491	1491	1491	1491	1491	1491	1491	1506
PT9	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.7
PTD	12.9	13.1	13.1	13.2	13.3	13.4	13.5	14.0
TT9	1926	1926	1926	1926	1926	1926	1926	1925
TTD	3560	3000	2750	2500	2250	2000	1743	1106
WAS/WAP	0.0354	0.0331	0.0321	0.0309	0.0298	0.0286	0.0273	0.0238
VENG	1940	1940	1940	1940	1940	1940	1940	1940
VDUCT	2618	2408	2308	2204	2093	1977	1849	1481
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.01	7.98	7.51	7.09	6.63	6.17	5.68	4.18

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	55000	WASIZE		66C	PT2/PT2P	0.904	WBL3	3.00
MN	2.23	PAM		1.3	PT2	12.9	WBL4	0.
VA KTS	1262	TAM		390	TT2	767	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	24934	21594	20036	18433	16789	15061	11977	6775
FGT	47351	43931	42373	40770	39120	37398	34113	29112
WAT	337	337	337	337	337	337	337	337
WFT	48477	37916	33628	29563	25889	22365	16436	9223
TSFC	1.969	1.757	1.678	1.604	1.542	1.485	1.406	1.361
BPR	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.80
WAT2	468	468	468	468	468	468	468	468
N1	5238	5238	5238	5238	5238	5238	5238	5334
N2	8006	8006	8006	8006	8006	8006	8006	8096
PT30	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.7
PT4	75.0	75.0	75.0	75.0	75.0	75.0	75.0	77.7
TT30	918	918	918	918	918	918	918	925
TT4	1314	1314	1314	1314	1314	1314	1314	1328
PT9	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.9
PTD	19.3	19.6	19.8	20.0	20.1	20.2	20.4	21.5
TT9	1920	1920	1920	1920	1920	1920	1920	1920
TTD	3560	3000	2750	2500	2250	2000	1580	925
WAS/WAP	0.0394	0.0369	0.0359	0.0348	0.0336	0.0321	0.0298	0.0259
VENG	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2618	2408	2308	2203	2093	1977	1763	1358
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	9.42	8.51	8.01	7.52	7.01	6.54	5.68	5.97

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ALT	55000	WASIZE		66D	PT2/PT2P	0.870	WBL3	3.00
MN	2.23	PAM		1.3	PT2	12.4	WBL4	0.
VA KTS	1434	TAM		390	TT2	875	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	29419	25925	23813	20956	18461	16665	13757	7480
FGT	50343	46939	45087	43124	40819	38617	34711	29454
WAT	412	412	412	412	412	412	412	412
WFT	56414	43651	38464	33595	29200	25502	20024	10569
TSFC	1.914	1.762	1.671	1.603	1.550	1.502	1.456	1.459
BPR	1.72	1.77	1.72	1.72	1.77	1.72	1.72	1.69
WAT2	397	397	397	397	397	397	397	397
N1	5188	5188	5188	5188	5188	5188	5188	5293
N2	8019	8019	8019	8019	8019	8019	8019	8076
PT30	32.8	32.8	32.8	32.8	32.8	32.8	32.8	33.8
PT4	95.0	95.0	95.0	95.0	95.0	95.0	95.0	99.0
TT30	1036	1036	1036	1036	1036	1036	1036	1045
TT4	1409	1408	1408	1409	1409	1408	1408	1424
PT9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	17.5
PTD	30.1	30.4	30.6	30.7	30.8	30.9	31.1	32.6
TT9	1920	1920	1920	1920	1920	1920	1920	1919
TTD	3560	3000	2750	2500	2250	2000	1688	1049
WAS/WAP	0.0368	0.0345	0.0334	0.0323	0.0312	0.0300	0.0285	0.0259
VENG	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2618	2408	2308	2204	2093	1977	1821	1542
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.11	6.59	6.22	5.88	5.56	5.23	4.68	5.19

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ALT	55000	WASIZE		66C	PT2/PT2P	0.846	WBL3	3.00
MN	2.70	PAM		1.3	PT2	26.3	WBL4	0.
VA KTS	1548	TAM		390	TT2	954	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	31967	26302	24591	22740	19824	17313	14918	7963
FGT	69858	64734	62483	60133	57716	55206	52810	45859
WAT	466	466	466	466	466	466	466	466
WFT	61039	46716	40977	35799	30965	26356	22301	12179
TSFC	1.909	1.736	1.664	1.610	1.562	1.522	1.495	1.530
BPR	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.59
WAT2	354	354	354	354	354	354	354	354
N1	5166	5166	5166	5166	5166	5166	5166	5236
N2	8106	8106	8106	8106	8106	8106	8106	8149
PT30	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.9
PT4	113.0	113.0	113.0	113.0	113.0	113.0	113.0	117.4
TT30	1128	1128	1128	1128	1128	1128	1128	1136
TT4	1481	1481	1481	1481	1481	1481	1481	1497
PT9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	20.7
PTD	40.4	40.7	40.8	41.0	41.1	41.2	41.3	42.6
TT9	1918	1918	1918	1918	1918	1918	1918	1917
TTD	3560	3000	2750	2500	2250	2000	1771	1136
WAS/WAP	0.0350	0.0329	0.0319	0.0309	0.0298	0.0287	0.0277	0.0246
VENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2408	2308	2204	2093	1977	1464	1502
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	6.07	5.43	5.14	4.85	4.56	4.25	3.96	2.99

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ALT	65000	WASIZE		66C	PT2/PT2P	0.904	WBL3	3.00
MN	2.23	PAM		0.8	PT2	8.0	WBL4	0.
VA KTS	1262	TAM		390	TT2	767	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	15277	13178	12216	11227	10207	9142	7207	3354
FGT	29127	27029	26068	25068	24058	22983	21058	17819
WAT	209	209	209	209	209	209	209	209
WFT	30212	23524	20842	18312	16025	13893	10164	5615
TSFC	1.978	1.785	1.706	1.631	1.567	1.513	1.436	1.403
BPR	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86
WAT2	468	468	468	468	468	468	468	468
N1	5277	5277	5277	5277	5277	5277	5277	5311
N2	7936	7936	7936	7936	7936	7936	7936	7943
PT30	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.7
PT4	45.5	45.5	45.5	45.5	45.5	45.5	45.5	47.2
TT30	912	912	912	912	912	912	912	919
TT4	1310	1310	1310	1310	1310	1310	1310	1324
PT9	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.4
PTD	11.5	11.7	11.8	11.9	12.0	12.1	12.3	12.7
TT9	1926	1926	1926	1926	1926	1926	1926	1925
TTD	3560	3000	2750	2500	2250	2000	1675	919
WAS/WAP	0.0395	0.0370	0.0358	0.0344	0.0330	0.0321	0.0298	0.0258
VENG	1940	1940	1940	1940	1940	1940	1940	1940
VDUCT	2618	2408	2308	2203	2093	1977	1760	1354
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.23	9.46	8.35	7.87	7.31	6.79	5.88	4.09

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ALT	65000	WASIZE		66D	PT2/PT2P	0.870	WBL3	3.00
MN	2.59	PAM		0.8	PT2	12.3	WBL4	0.
VA KTS	1434	TAM		390	TT2	875	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	19072	15348	14100	12823	11511	10167	8326	4409
FGT	37279	34554	33307	32029	30718	29356	27533	23515
WAT	255	255	255	255	255	255	255	255
WFT	35050	27060	23852	20832	18095	15482	12336	6647
TSFC	1.939	1.763	1.692	1.625	1.572	1.526	1.482	1.508
BPR	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.75
WAT2	397	397	397	397	397	397	397	397
N1	5154	5154	5154	5154	5154	5154	5154	5268
N2	7971	7971	7971	7971	7971	7971	7971	8023
PT30	19.9	19.9	19.9	19.9	19.9	19.9	19.9	20.4
PT4	57.8	57.8	57.8	57.8	57.8	57.8	57.8	60.1
TT30	1031	1031	1031	1031	1031	1031	1031	1039
TT4	1404	1404	1404	1404	1404	1404	1404	1419
PT9	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.7
PTD	18.2	18.4	18.5	18.6	18.7	18.8	18.9	19.6
TT9	1925	1925	1925	1925	1925	1925	1925	1926
TTD	3560	3000	2750	2500	2250	2000	1683	1039
WAS/WAP	0.0369	0.0346	0.0335	0.0324	0.0312	0.0300	0.0285	0.0249
VENG	1940	1940	1940	1940	1940	1940	1940	1939
VDUCT	2618	2408	2308	2204	2093	1977	1818	1638
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.60	6.77	6.40	6.07	5.65	5.27	4.76	3.44

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ALT	65000	WASIZE		66C	PT2/PT2P	0.846	WBL3	3.00
MN	2.70	PAM		0.8	PT2	16.4	WBL4	0.
VA KTS	1548	TAM		390	TT2	954	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	19692	16536	15098	13637	12136	10576	9048	4708
FGT	43178	40031	38594	37134	35635	34070	32545	28266
WAT	289	289	289	289	289	289	289	289
WFT	37957	29076	25460	22223	19210	16335	13750	7437
TSFC	1.929	1.756	1.688	1.630	1.583	1.545	1.520	1.580
BPR	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.61
WAT2	354	354	354	354	354	354	354	354
N1	5117	5117	5117	5117	5117	5117	5117	5183
N2	8068	8068	8068	8068	8068	8068	8068	8104
PT30	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.7
PT4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	71.4
TT30	1122	1122	1122	1122	1122	1122	1122	1130
TT4	1476	1476	1476	1476	1476	1476	1476	1492
PT9	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.6
PTD	24.5	24.7	24.8	24.9	25.0	25.0	25.1	25.9
TT9	1929	1923	1923	1923	1923	1923	1923	1922
TTD	3560	3000	2750	2500	2250	2000	1766	1130
WAS/WAP	0.0351	0.0330	0.0320	0.0309	0.0299	0.0288	0.0277	0.0244
VENG	1939	1939	1939	1939	1939	1939	1939	1938
VDUCT	2618	2408	2308	2204	2094	1977	1961	1698
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	6.23	5.57	5.28	4.98	4.67	4.36	4.06	3.01

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	35000	WASIZE	640	PT2/PT2P	0.926	WBL3	1.00
MN	2.77	PAM	0.5	PT2	5.0	WBL4	0.
VA KTS	1270	TAM	194	TT2	774	HPEXT	0.

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	9121	7819	7250	6842	6314	5351	6167	2198
FGT	17741	16456	15947	15260	14633	13979	12784	10965
WAT	129	129	127	125	129	129	129	129
WFT	18444	16495	12822	11265	9816	8451	6273	3323
TSFC	2.046	1.849	1.769	1.691	1.632	1.576	1.505	1.519
RPM	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.97
WAT2	468	468	468	468	468	468	468	468
N1	5265	5265	5265	5265	5265	5265	5265	5301
N2	7835	7835	7835	7835	7835	7835	7835	7903
PT30	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.1
PT4	26.9	26.9	26.9	26.9	26.9	26.9	26.9	28.0
TT30	911	911	911	911	911	911	911	919
TT4	1315	1315	1315	1315	1315	1315	1315	1330
PT9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
PTD	6.6	6.8	6.8	6.9	7.0	7.0	7.1	7.6
TT9	1932	1932	1932	1932	1932	1932	1932	1931
TTD	3567	3300	2750	2500	2250	2000	1574	919
WAS/WCP	0.0334	0.0342	0.0357	0.0365	0.0332	0.0319	0.0295	0.0255
VENG	1943	1943	1943	1943	1943	1943	1941	1942
VDUCT	2618	2408	2308	2203	2093	1977	1759	1393
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.30	9.50	9.02	8.44	7.89	7.33	6.33	4.36

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ALT	35000	WASIZE	640	PT2/PT2P	0.870	WBL3	1.00
MN	2.40	PAM	0.5	PT2	7.6	WBL4	0.
VA KTS	1443	TAM	395	TT2	896	HPEXT	0.

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	10931	9216	8445	7654	6943	5938	6825	2436
FGT	22851	21167	20395	19606	18796	17948	16425	14086
WAT	158	158	157	158	158	158	158	158
WFT	21641	18663	16655	12783	11279	9450	7498	3542
TSFC	1.944	1.808	1.737	1.670	1.613	1.576	1.538	1.618
RPM	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86
WAT2	397	397	397	397	397	397	397	397
N1	5128	5128	5128	5128	5128	5128	5128	5171
N2	7926	7926	7926	7926	7926	7926	7926	7985
PT30	11.9	11.9	11.9	11.9	11.9	11.9	11.9	12.2
PT4	34.5	34.5	34.5	34.5	34.5	34.5	34.5	35.8
TT30	1033	1033	1033	1033	1033	1033	1033	1040
TT4	1410	1410	1410	1410	1410	1410	1410	1425
PT9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.4
PTD	10.8	11.0	11.0	11.1	11.1	11.2	11.2	11.7
TT9	1931	1931	1931	1931	1931	1931	1931	1930
TTD	3580	3000	2750	2500	2250	2000	1686	1040
WAS/WCP	0.0368	0.0364	0.0334	0.0322	0.0311	0.0299	0.0283	0.0247
VENG	1942	1942	1942	1942	1942	1942	1942	1942
VDUCT	2618	2408	2308	2204	2093	1977	1818	1438
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	7.97	7.09	6.70	6.31	5.91	5.51	4.68	3.61

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ALT	35000	WASIZE	640	PT2/PT2P	0.846	WBL3	1.00
MN	2.77	PAM	0.5	PT2	10.1	WBL4	0.
VA KTS	1554	TAM	395	TT2	966	HPEXT	0.

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	11316	9460	8067	8159	7224	6253	5310	2605
FGT	26536	24580	23087	22775	21844	20873	19930	17225
WAT	179	179	179	176	179	179	179	179
WFT	23696	17404	15669	13652	11769	9972	8366	4415
TSFC	1.971	1.798	1.728	1.673	1.629	1.595	1.576	1.695
RPM	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.73
WAT2	354	354	354	354	354	354	354	354
N1	5050	5050	5050	5050	5050	5050	5050	5115
N2	8032	8032	8032	8032	8032	8032	8032	8086
PT30	15.7	15.7	15.7	15.7	15.7	15.7	15.7	16.0
PT4	41.0	41.0	41.0	41.0	41.0	41.0	41.0	42.6
TT30	1124	1124	1124	1124	1124	1124	1124	1132
TT4	1481	1481	1481	1481	1481	1481	1481	1497
PT9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.5
PTD	14.6	14.8	14.8	14.9	14.9	15.0	15.0	15.5
TT9	1930	1930	1930	1930	1930	1930	1930	1928
TTD	3560	3030	2750	2500	2250	2000	1767	1132
WAS/WAP	0.0351	0.0329	0.0319	0.0304	0.0297	0.0286	0.0275	0.0243
VENG	1942	1942	1942	1942	1942	1942	1942	1941
VDUCT	2618	2408	2309	2204	2094	1977	1862	1499
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	5.52	5.83	5.52	5.20	4.89	4.56	4.24	3.15

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	3.00
MN	0.	PAM	14.7	PT2	14.7	WRL4	0.
VA KTS	0	TAM	519	TT2	519	HPEXT	0.

PART PWR

FNT	19931	19136	18187	17169	27166	23555	20542	17691
FGT	19931	19136	18187	17109	27166	23555	20542	17691
WAT	440	440	440	440	440	583	450	514
WFT	23718	24506	22157	19359	17695	14891	12869	11097
TSFC	0.6158	0.6718	0.6685	0.6643	0.6643	0.6832	0.7226	0.7627
BPR	1.44	1.36	1.40	1.47	1.55	1.64	1.69	1.71
WAT2	440	440	440	440	440	583	450	514
N1	5193	5287	5425	5266	5516	5161	4813	4639
N2	7033	7409	7796	7695	7768	7619	7357	7075
PT30	41.4	38.3	36.0	33.1	31.2	30.1	29.4	29.5
PT4	181.3	175.1	166.6	158.2	155.8	137.4	117.1	104.3
TT30	731	711	712	688	693	687	667	666
TT4	1113	1117	1087	1049	1041	1019	936	866
PT9	35.1	33.6	31.7	29.6	29.0	27.6	27.4	28.5
PTD	49.0	47.1	44.3	41.5	41.7	39.3	38.7	39.3
TT9	1999	1905	1831	1751	1677	1608	1561	1480
TTD	739	720	702	676	677	660	646	636
WAS/WAP	0.0315	0.0308	0.0298	0.0287	0.0287	0.0279	0.0271	0.0270
VENG	1370	1331	1292	1253	1252	1161	1076	1032
VDUCT	1235	1203	1185	1170	1151	1149	1106	1016
AJCDE	5.20	5.21	5.20	5.20	5.20	5.20	5.22	5.19
AJCDD	3.17	3.62	3.76	4.14	4.27	4.27	4.27	4.27

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	3.00
MN	0.20	PAM	14.7	PT2	15.1	WRL4	0.
VA KTS	132	TAM	519	TT2	523	HPEXT	0.

PART PWR

FNT	12663	30604	28611	26677	23551	20218	17665	14852
FGT	36901	35133	33139	31006	27922	24339	21361	18508
WAT	659	651	653	653	636	594	561	527
WFT	26667	26186	22039	20546	17567	15065	13052	11277
TSFC	0.815	0.796	0.772	0.757	0.748	0.744	0.767	0.759
BPR	1.29	1.35	1.41	1.48	1.57	1.65	1.70	1.73
WAT2	637	657	637	537	615	580	566	516
N1	5962	5875	5909	5768	5488	5129	4890	4659
N2	8313	7909	7806	7705	7576	7427	7264	7082
PT30	42.2	39.6	36.6	33.7	32.3	30.8	29.1	27.3
PT4	196.5	177.0	169.1	161.2	147.4	131.5	119.6	108.5
TT30	762	723	705	697	674	664	651	639
TT4	1147	1129	1111	1092	1063	1028	989	971
PT9	33.5	31.9	30.4	28.8	26.7	23.7	22.0	20.7
PTD	45.9	44.0	39.3	37.7	30.4	29.0	27.4	25.7
TT9	1988	1903	1831	1753	1676	1607	1561	1476
TTD	742	723	705	697	676	664	651	639
WAS/WAP	0.0314	0.0307	0.0299	0.0293	0.0286	0.0279	0.0274	0.0269
VENG	1973	1931	1892	1853	1765	1579	1427	1289
VDUCT	1214	1203	1187	1172	1163	1153	1130	1064
AJCDE	5.20	5.21	5.20	5.20	5.21	5.20	5.20	5.21
AJCDD	3.19	3.64	3.77	4.17	4.27	4.27	4.27	4.27

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	3.00
MN	0.40	PAM	14.7	PT2	16.4	WRL4	0.
VA KTS	265	TAM	519	TT2	535	HPEXT	0.

PART PWR

FNT	30585	28569	26620	24190	20982	18104	15562	13188
FGT	40175	34139	36010	33769	30122	26795	23825	20998
WAT	691	691	691	691	659	626	595	563
WFT	27444	24015	22852	20729	17966	15603	13587	11807
TSFC	0.837	0.876	0.865	0.857	0.855	0.862	0.873	0.895
BPR	1.31	1.37	1.45	1.52	1.61	1.69	1.72	1.75
WAT2	629	629	629	629	599	570	542	512
N1	5910	5836	5764	5704	5384	5105	4895	4699
N2	8043	7965	7834	7732	7593	7447	7280	7102
PT30	44.6	41.7	38.6	35.8	34.5	33.0	31.4	29.5
PT4	193.9	195.3	176.7	168.1	151.4	137.5	125.8	115.2
TT30	751	732	716	697	687	677	665	654
TT4	1160	1141	1122	1103	1076	1040	1013	986
PT9	35.2	33.6	31.7	29.6	26.9	24.6	22.7	21.4
PTD	45.0	39.9	36.7	33.5	32.4	31.0	29.5	27.8
TT9	1988	1909	1831	1752	1677	1604	1535	1468
TTD	751	732	716	697	687	677	664	654
WAS/WAP	0.0310	0.0303	0.0296	0.0289	0.0282	0.0277	0.0271	0.0266
VENG	1970	1931	1892	1852	1801	1631	1483	1347
VDUCT	1225	1210	1195	1181	1172	1164	1151	1143
AJCDE	5.20	5.21	5.20	5.21	5.20	5.20	5.20	5.21
AJCDD	3.24	3.92	3.86	4.27	4.27	4.27	4.27	4.27

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ALT	5000	WASIZE	A40	PT2/PT2P	1.000	WBL3	3.00
MN	0.20	PAM	12.2	PT2	12.6	WBL4	0.
VA KTS	190	TAM	501	TT2	504	HPEXT	0.

PART PWR

FNT	28549	27016	25497	23761	21485	18781	16032	13356
FGT	32642	30917	29335	27525	25249	22366	19402	16928
WAT	563	563	563	563	551	526	494	469
WFT	23158	21953	19533	17819	15877	13702	11724	10116
TSFC	0.819	0.795	0.766	0.750	0.739	0.730	0.731	0.735
BPR	1.34	1.33	1.38	1.44	1.51	1.60	1.68	1.77
WAT2	650	650	650	650	638	606	570	537
N1	5345	5124	5872	5918	5622	5301	4955	4719
N2	7967	7858	7756	7655	7535	7400	7247	7076
PT30	34.5	34.3	33.9	33.1	27.5	26.6	25.2	23.7
PT4	193.9	183.9	167.9	161.6	132.0	118.8	106.0	96.1
TT30	727	709	691	673	660	649	637	625
TT4	1128	1110	1093	1078	1051	1019	985	957
PT9	29.0	27.8	26.6	25.3	23.6	21.1	19.2	17.9
PTD	35.3	34.0	32.5	27.7	25.9	25.0	23.7	22.3
TT9	1949	1910	1851	1756	1677	1602	1535	1469
TTD	727	709	691	673	660	650	637	625
WAS/WAP	0.0183	0.0212	0.0305	0.0257	0.0291	0.0294	0.0278	0.0272
VENG	1477	1932	1899	1853	1814	1678	1901	1355
VDUCT	1206	1191	1176	1161	1149	1140	1129	1090
AJCDE	5.21	5.21	5.21	5.20	5.23	5.21	5.20	5.20
AJCDD	5.13	5.36	3.65	4.03	4.27	4.27	4.27	4.27

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ALT	5000	WASIZE	A40	PT2/PT2P	1.000	WBL3	3.00
MN	0.20	PAM	12.2	PT2	12.6	WBL4	0.
VA KTS	190	TAM	501	TT2	504	HPEXT	0.

PART PWR

FNT	11611	9739	7741	5736	3551	2405		
FGT	14592	12514	10322	7395	5410	4260		
WAT	416	407	375	330	279	261		
WFT	8737	7454	6254	5067	3984	3376		
TSFC	0.749	0.766	0.806	0.981	1.098	1.274		
BPR	1.76	1.75	1.76	1.78	1.83	1.84		
WAT2	502	464	430	380	314	280		
N1	4496	4268	4004	3592	2951	2624		
N2	6831	6706	6455	6169	5725	5460		
PT30	22.2	20.9	19.3	17.7	15.5	15.1		
PT4	87.2	79.1	70.2	59.9	47.1	41.1		
TT30	612	600	584	572	558	548		
TT4	923	901	869	829	771	741		
PT9	16.9	16.0	15.2	14.4	13.6	13.3		
PTD	20.3	19.6	18.2	16.8	15.3	14.6		
TT9	1436	1365	1290	1246	1218	1209		
TTD	612	600	584	572	558	548		
WAS/WAP	0.0267	0.0261	0.0258	0.0256	0.0256	0.0269		
VENG	1221	1239	970	811	673	595		
VDUCT	1021	952	872	774	642	569		
AJCDE	5.20	5.20	5.21	5.21	5.20	5.20		
AJCDD	4.27	4.27	4.27	4.27	4.27	4.27		

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ALT	5000	WASIZE	A40	PT2/PT2P	1.000	WBL3	3.00
MN	0.40	PAM	12.2	PT2	13.	WBL4	0.
VA KTS	260	TAM	501	TT2	517	HPEXT	0.

PART PWR

FNT	27157	25521	23776	21875	19417	16735	14369	12207
FGT	35246	33660	31915	30012	27307	24240	21496	18953
WAT	597	597	597	597	578	550	523	495
WFT	24100	22167	20331	18494	16292	14050	12178	10543
TSFC	0.891	0.869	0.855	0.845	0.833	0.840	0.847	0.866
BPR	1.29	1.34	1.40	1.47	1.55	1.64	1.70	1.74
WAT2	641	641	641	641	622	591	561	532
N1	5357	5841	5832	5749	5527	5213	4953	4743
N2	7994	7890	7768	7694	7561	7419	7267	7090
PT30	35.6	34.2	33.6	33.8	29.4	28.4	27.1	25.6
PT4	169.9	162.1	155.6	148.2	136.3	122.5	111.5	101.4
TT30	747	729	701	682	670	661	650	638
TT4	1161	1123	1105	1087	1059	1027	998	970
PT9	30.6	29.1	27.9	26.5	26.3	21.7	19.9	18.5
PTD	37.3	36.9	32.1	29.	27.6	26.7	25.4	24.1
TT9	1989	1909	1831	1751	1677	1602	1530	1463
TTD	737	719	701	682	670	661	651	638
WAS/WAP	0.0315	0.0308	0.0301	0.0294	0.0287	0.0281	0.0275	0.0270
VENG	1970	1931	1892	1853	1813	1719	1553	1407
VDUCT	1214	1199	1184	1168	1158	1150	1141	1130
AJCDE	5.21	5.21	5.21	5.20	5.20	5.20	5.21	5.21
AJCDD	5.17	5.41	3.77	4.33	4.27	4.27	4.27	4.27

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ALT	5000	WASIZE	A40	PT2/PT2P	1.000	WBL3	3.00
MN	0.40	PAM	12.2	PT2	13.7	WBL4	0.
VA KTS	260	TAM	501	TT2	517	HPEXT	0.

PART PWR

FNT	10269	8498	6765	5046				
FGT	16637	14491	12338	11130				
WAT	467	439	409	390				
WFT	9119	7927	6632	6015				
TSFC	0.889	0.921	0.980	1.025				
BPR	1.76	1.78	1.80	1.81				
WAT2	502	472	439	420				
N1	4566	4333	4104	3956				
N2	6908	6722	6510	6377				
PT30	24.0	22.6	21.0	20.2				
PT4	92.7	84.6	76.1	71.3				
TT30	627	614	601	595				
TT4	944	917	889	872				
PT9	17.4	16.5	15.7	15.3				
PTD	22.6	21.2	19.8	19.1				
TT9	1397	1334	1275	1249				
TTD	627	614	601	595				
WAS/WAP	0.0265	0.0260	0.0255	0.0253				
VENG	1276	1152	1032	965				
VDUCT	1131	1038	965	925				
AJCDE	5.20	5.20	5.19	5.20				
AJCDD	4.27	4.27	4.27	4.27				

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ALT	5000	WASIZE	A40	PT2/PT2P	1.000	WBL3	3.00
MN	0.60	PAM	12.2	PT2	15.6	WBL4	0.
VA KTS	390	TAM	501	TT2	537	HPEXT	0.

PART PWR

FNT	26780	24962	22890	20795	17950	15535	13418	11416
FGT	40140	38253	36282	34145	30672	27701	25086	22539
WAT	655	655	653	622	595	570	544	544
WFT	25918	23596	21551	19499	16885	14751	12918	11279
TSFC	0.947	0.949	0.961	0.938	0.961	0.950	0.963	0.988
BPR	1.32	1.38	1.44	1.53	1.62	1.69	1.73	1.76
WAT2	628	628	628	626	596	570	547	521
N1	5906	5826	5755	5675	5502	5118	4942	4770
N2	8045	7939	7837	7730	7591	7447	7286	7116
PT30	42.3	39.4	36.4	33.7	32.6	31.4	30.2	28.7
PT4	183.3	174.9	166.7	158.1	142.4	130.3	120.1	110.7
TT30	752	733	714	698	688	679	670	660
TT4	1161	1142	1121	1103	1070	1042	1017	992
PT9	33.2	31.5	29.9	28.2	25.2	23.1	21.2	19.7
PTD	40.8	37.7	34.6	31.7	30.7	29.6	28.4	27.0
TT9	1987	1909	1831	1752	1679	1601	1526	1455
TTD	752	733	714	699	688	680	670	659
WAS/WAP	0.0309	0.0302	0.0295	0.0288	0.0282	0.0276	0.0271	0.0266
VENG	1969	1931	1893	1855	1814	1773	1663	1502
VDUCT	1226	1210	1195	1182	1173	1166	1157	1149
AJCDE	5.21	5.21	5.20	5.21	5.20	5.21	5.21	5.20
AJCDD	5.24	5.56	5.89	4.27	4.27	4.27	4.27	4.27

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ALT	5000	WASIZE	A40	PT2/PT2P	1.000	WBL3	3.00
MN	0.60	PAM	12.2	PT2	15.6	WBL4	0.
VA KTS	390	TAM	501	TT2	537	HPEXT	0.

PART PWR

FNT	9584	7432						
FGT	20162	17858						
WAT	517	490						
WFT	9796	8408						
TSFC	1.021	1.071						
BPR	1.79	1.82						
WAT2	496	470						
N1	4593	4423						
N2	6936	6761						
PT30	27.3	25.8						
PT4	101.8	93.0						
TT30	649	638						
TT4	967	941						
PT9	18.5	17.4						
PTD	25.7	24.3						
TT9	1387	1321						
TTD	650	638						
WAS/WAP	0.0261	0.0256						
VENG	1368	1236						
VDUCT	1140	1130						
AJCDE	5.20	5.20						
AJCDD	4.27	4.27						

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ALT	15000	WASIZE		A4C	PT2/PT2P	1.000	WBL3	3.00
MO	0.60	PAM		8.3	PT2	10.6	WBL4	0.
VA KTS	576	TAM		465	TT2	459	HPEXT	0.

PART PWR

FNT	20789	19567	18260	16947	15136	13168	11226	9629
FGT	30257	29019	27708	26315	24624	22054	19669	17701
WAT	480	480	480	480	471	451	428	409
WFT	19710	18133	16619	15268	13668	11455	10193	8854
TSFC	0.944	0.929	0.911	0.906	0.903	0.900	0.909	0.920
BPR	1.29	1.33	1.38	1.43	1.50	1.58	1.67	1.73
WAT2	654	654	654	654	647	614	583	558
N1	5995	5936	5884	5839	5654	5347	5041	4838
N2	7961	7892	7750	7639	7517	7383	7237	7090
PT30	31.0	29.1	27.1	24.9	23.2	22.6	21.7	20.9
PT4	135.9	131.0	126.0	120.8	113.2	102.4	92.0	84.2
TT30	721	703	685	668	654	644	635	626
TT4	1120	1103	1086	1069	1046	1015	984	958
PT9	24.7	23.7	22.7	21.6	20.2	18.2	16.3	14.8
PT0	30.6	29.0	25.9	23.6	21.9	21.2	20.4	19.7
TT9	1991	1912	1833	1754	1674	1602	1527	1490
TT0	721	703	685	668	653	644	635	627
WAS/WAP	0.0320	0.0313	0.0306	0.0295	0.0292	0.0285	0.0279	0.0273
VENG	1971	1917	1893	1854	1814	1773	1731	1697
VDUCT	1200	1145	1171	1156	1143	1135	1128	1120
AJCDE	5.21	5.21	5.21	5.21	5.19	5.20	5.20	5.21
AJCOD	5.13	5.35	5.64	6.01	4.27	4.27	4.27	4.27

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ALT	15000	WASIZE		A4C	PT2/PT2P	1.000	WBL3	3.00
MO	0.60	PAM		8.3	PT2	10.6	WBL4	0.
VA KTS	576	TAM		465	TT2	459	HPEXT	0.

PART PWR

FNT	8197	6734	5517	4695				
FGT	15919	14084	12409	11577				
WAT	330	370	390	435				
WFT	7670	6523	5691	5198				
TSFC	0.963	0.939	1.024	1.062				
BPR	1.77	1.76	1.81	1.84				
WAT2	511	504	476	462				
N1	6455	6481	6249	6149				
N2	8908	8729	8536	8433				
PT30	19.8	18.8	17.7	17.1				
PT4	77.1	70.7	64.2	61.1				
TT30	616	606	595	589				
TT4	932	904	881	868				
PT9	14.7	12.7	11.9	11.4				
PT0	18.7	17.7	16.7	16.1				
TT9	1379	1310	1244	1213				
TT0	615	607	595	589				
WAS/WAP	0.0267	0.0262	0.0257	0.0255				
VENG	1491	1350	1316	1282				
VDUCT	1110	1102	1091	1085				
AJCDE	5.20	5.21	5.20	5.20				
AJCOD	4.27	4.27	4.27	4.27				

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ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	3.00
MO	0.80	PAM		8.3	PT2	12.6	WBL4	0.
VA KTS	501	TAM		465	TT2	529	HPEXT	0.

PART PWR

FNT	21558	20051	18485	16836	14852	12583	10868	9336
FGT	35855	34348	32783	31134	28363	25645	23383	21359
WAT	544	544	544	544	522	497	476	457
WFT	21606	19916	18236	16581	14428	12503	10928	9564
TSFC	1.012	0.993	0.987	0.986	0.985	0.994	1.006	1.025
BPR	1.10	1.16	1.43	1.50	1.48	1.67	1.72	1.77
WAT2	636	636	636	636	610	581	556	539
N1	5931	5861	5797	5736	5447	5151	4955	4805
N2	8005	7902	7801	7697	7563	7420	7266	7100
PT30	35.0	32.7	30.3	27.9	26.9	25.9	24.9	24.0
PT4	153.0	146.5	140.0	133.3	121.0	109.4	100.5	93.0
TT30	742	723	709	687	677	668	659	650
TT4	1148	1130	1112	1093	1062	1031	1005	982
PT9	27.7	26.4	25.1	23.8	21.5	19.4	17.7	16.3
PT0	33.8	31.4	28.9	26.2	25.2	24.4	23.4	22.6
TT9	1989	1911	1832	1754	1678	1603	1527	1490
TT0	742	723	705	688	677	668	659	649
WAS/WAP	0.0313	0.0308	0.0298	0.0291	0.0285	0.0279	0.0273	0.0267
VENG	1970	1932	1893	1853	1814	1774	1733	1690
VDUCT	1218	1202	1187	1173	1164	1156	1148	1140
AJCDE	5.21	5.21	5.21	5.21	5.20	5.20	5.20	5.21
AJCOD	5.21	5.49	5.81	6.22	4.27	4.27	4.27	4.27

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ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	3.00
MO	0.80	PAM		8.3	PT2	12.6	WBL4	0.
VA KTS	501	TAM		465	TT2	525	HPEXT	0.

PART PWR

FNT	7931	6603	5315	4097	2971	1959	1052	632
FGT	19462	17650	15817	14041	12127	10795	9251	8459
WAT	439	420	399	378	358	334	311	299
WFT	8352	7226	6172	5219	4193	3583	2878	2556
TSFC	1.093	1.096	1.161	1.276	1.465	1.829	2.737	4.049
BPR	1.79	1.83	1.87	1.92	1.94	1.98	2.06	2.11
WAT2	513	491	467	442	414	390	364	350
N1	4664	4512	4339	4162	3965	3682	3376	3204
N2	6932	6751	6559	6355	6170	6002	5791	5676
PT30	23.0	22.0	20.9	19.7	18.7	17.3	16.2	15.6
PT4	86.2	79.4	72.6	66.1	59.6	53.4	46.9	43.6
TT30	662	634	605	613	602	591	579	573
TT4	959	935	911	885	859	831	798	781
PT9	15.1	13.9	12.9	12.1	11.3	10.7	10.2	9.9
PT0	21.6	20.7	19.7	18.8	17.8	16.9	15.2	14.7
TT9	1375	1301	1232	1166	1105	1045	989	962
TT0	662	634	606	612	602	591	579	573
WAS/WAP	0.0262	0.0257	0.0252	0.0247	0.0241	0.0238	0.0233	0.0231
VENG	1615	1469	1330	1196	1067	944	823	761
VDUCT	1134	1126	1117	1107	1098	1088	1052	1019
AJCDE	5.20	5.21	5.20	5.20	5.20	5.21	5.20	5.21
AJCOD	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	3.00
MO	0.90	PAM		8.3	PT2	14.0	WBL4	0.
VA KTS	564	TAM		465	TT2	541	HPEXT	0.

PART PWR

FNT	20165	18660	16750	14471	12542	10872	9359	7940
FGT	37655	35948	33853	30792	28170	25891	23791	21827
WAT	584	584	578	552	528	508	488	470
WFT	20866	19054	17111	14864	13016	11424	10030	8760
TSFC	1.025	1.021	1.022	1.027	1.038	1.051	1.072	1.103
BPR	1.40	1.48	1.56	1.64	1.70	1.75	1.78	1.81
WAT2	625	625	618	590	565	543	522	502
N1	5806	5737	5617	5318	5094	4934	4796	4660
N2	7939	7837	7725	7586	7440	7279	7114	6943
PT30	34.9	32.3	30.1	29.1	28.0	27.0	26.0	25.0
PT4	155.0	147.6	138.7	125.5	115.1	106.6	98.9	91.8
TT30	734	716	700	691	682	673	666	658
TT4	1144	1125	1103	1071	1044	1020	997	974
PT9	28.0	26.5	24.8	22.3	20.4	18.8	17.3	16.0
PT0	33.3	30.6	28.3	27.4	26.4	25.4	24.5	23.5
TT9	1911	1832	1755	1679	1603	1526	1450	1373
TT0	734	716	700	691	682	673	666	658
WAS/WAP	0.0301	0.0294	0.0287	0.0281	0.0275	0.0270	0.0265	0.0260
VENG	1932	1893	1854	1814	1774	1733	1690	1646
VDUCT	1211	1196	1183	1176	1168	1161	1155	1147
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.21	5.21
AJCOD	3.59	3.94	4.27	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	3.00
MO	0.90	PAM		8.3	PT2	14.0	WBL4	0.
VA KTS	564	TAM		465	TT2	541	HPEXT	0.

PART PWR

FNT	6591	5277	4055	2918	1914	1016		
FGT	19930	18021	16166	14376	12721	11184		
WAT	451	431	409	387	365	344		
WFT	7574	6483	5485	4582	3778	3055		
TSFC	1.149	1.229	1.353	1.576	1.974	3.006		
BPR	1.85	1.89	1.93	1.96	2.00	2.06		
WAT2	482	461	439	414	391	369		
N1	4514	4363	4197	3994	3751	3482		
N2	6760	6572	6377	6203	6045	5869		
PT30	24.1	23.0	21.8	20.6	19.4	18.2		
PT4	86.7	77.8	71.0	64.4	58.1	51.9		
TT30	649	640	630	620	610	599		
TT4	951	928	903	877	850	821		
PT9	16.7	15.6	12.6	11.8	11.3	10.6		
PT0	22.6	21.6	20.5	19.3	18.2	17.1		
TT9	1299	1227	1159	1094	1032	971		
TT0	650	640	630	619	610	599		
WAS/WAP	0.0255	0.0250	0.0245	0.0240	0.0236	0.0231		
VENG	1540	1397	1259	1128	1001	884		
VDUCT	1140	1132	1123	1113	1105	1095		
AJCDE	5.20	5.20	5.20	5.20	5.21	5.21		
AJCOD	4.27	4.27	4.27	4.27	4.27	4.27		

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MO	0.60	PAM	3.3	PT2	4.2	WBL4	0.
VA KTS	344	TAM	390	TT2	418	HPEXT	0.

PART PWR

FNT	9234	8481	8123	7505	6849	6180	5509	4804
FGT	13123	12600	12041	11424	10743	9926	8880	7771
WAT	217	217	217	217	215	207	198	186
WFT	8170	7615	6934	6338	5751	5115	4394	3681
TSFC	0.848	0.878	0.854	0.844	0.837	0.828	0.826	0.836
BPR	1.31	1.35	1.39	1.43	1.47	1.49	1.58	1.68
WAT2	684	684	684	684	678	654	623	588
N1	5910	5859	5819	5786	5641	5338	5001	4665
N2	7522	7366	7245	7141	7032	6918	6784	6634
PT30	13.1	12.1	11.4	10.6	9.6	9.3	8.9	8.6
PT4	58.1	56.1	54.1	51.9	49.6	46.6	41.7	36.8
TT30	620	604	588	572	560	551	542	532
TT4	930	912	895	878	858	845	865	833
PT9	10.5	10.1	9.7	9.3	8.8	8.2	7.3	6.4
PTD	12.7	11.9	10.9	9.8	9.0	8.7	8.4	8.0
TT9	1911	1753	1674	1596	1519	1443	1367	1293
TTD	620	604	588	572	561	552	542	532
WAS/WAP	0.0331	0.0323	0.0316	0.0308	0.0301	0.0295	0.0287	0.0279
VENG	1892	1859	1812	1771	1729	1686	1642	1598
VDUCT	1114	1099	1085	1070	1059	1051	1042	1033
AJCDE	5.21	5.20	5.21	5.21	5.20	5.20	5.21	5.20
AJCDD	3.08	3.30	3.58	3.97	4.27	4.27	4.27	4.27

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MO	0.60	PAM	3.3	PT2	4.2	WBL4	0.
VA KTS	344	TAM	390	TT2	418	HPEXT	0.

PART PWR

FNT	3662	3394	2386	1615				
FGT	6850	6303	5213	4451				
WAT	177	167	156	146				
WFT	3125	2652	2244	1847				
TSFC	0.854	0.844	0.965	1.040				
BPR	1.75	1.79	1.83	1.87				
WAT2	556	525	491	469				
N1	6427	6233	6018	5922				
N2	5674	8292	8096	5885				
PT30	8.1	7.7	7.2	6.6				
PT4	33.1	29.8	26.9	23.9				
TT30	524	514	503	492				
TT4	806	781	756	729				
PT9	5.8	5.3	4.9	4.5				
PTD	7.7	7.2	6.7	6.2				
TT9	1219	1149	1081	1021				
TTD	524	514	504	492				
WAS/WAP	0.0273	0.0266	0.0260	0.0254				
VENG	1484	1327	1182	1044				
VDUCT	1024	1014	1004	993				
AJCDE	5.20	5.20	5.21	5.20				
AJCDD	4.27	4.27	4.27	4.27				

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MO	0.80	PAM	3.3	PT2	5.0	WBL4	0.
VA KTS	459	TAM	390	TT2	440	HPEXT	0.

PART PWR

FNT	10618	10019	9399	8715	8006	7285	6379	5370
FGT	16719	16120	15501	14817	14070	13176	12024	10722
WAT	253	253	253	253	252	245	234	222
WFT	10197	9437	8781	8205	7311	6578	5739	4864
TSFC	0.957	0.962	0.934	0.918	0.913	0.903	0.900	0.906
BPR	1.31	1.34	1.38	1.43	1.46	1.48	1.54	1.65
WAT2	686	686	686	686	681	662	634	601
N1	6079	6029	5989	5957	5860	5572	5243	4913
N2	7736	7576	7456	7352	7246	7136	7010	6864
PT30	15.7	14.7	13.7	12.6	11.6	11.2	10.5	10.5
PT4	69.7	67.4	65.1	62.7	60.1	56.8	51.9	46.1
TT30	652	636	621	605	592	583	574	564
TT4	1042	1024	1006	990	971	948	920	888
PT9	12.7	12.2	11.8	11.3	10.7	10.1	9.2	8.1
PTD	15.2	14.2	13.2	11.9	10.9	10.6	10.2	9.8
TT9	1734	1856	1777	1698	1621	1544	1468	1393
TTD	652	636	621	605	592	584	575	564
WAS/WAP	0.0331	0.0324	0.0317	0.0310	0.0303	0.0297	0.0290	0.0282
VENG	1963	1905	1865	1825	1784	1742	1700	1657
VDUCT	1142	1128	1115	1100	1089	1081	1073	1063
AJCDE	5.21	5.20	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	3.09	3.31	3.56	3.92	4.27	4.27	4.27	4.27

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MO	0.80	PAM	3.3	PT2	5.0	WBL4	0.
VA KTS	459	TAM	390	TT2	440	HPEXT	0.

PART PWR

FNT	4490	3769	3121	2501	1916	1386	1111	
FGT	9551	8060	7110	6282	6015	5224	4433	
WAT	210	201	191	182	171	160	155	
WFT	4133	3550	3045	2580	2149	1806	1648	
TSFC	0.922	0.962	0.976	1.031	1.129	1.322	1.480	
BPR	1.72	1.78	1.81	1.86	1.90	1.94	1.98	
WAT2	569	543	518	492	462	433	418	
N1	4627	4451	4303	4136	3950	3747	3424	
N2	6712	6562	6167	5971	5756	5756	5658	
PT30	10.0	9.5	9.1	8.6	8.1	7.5	7.3	
PT4	43.3	37.6	34.4	31.3	28.1	25.1	23.6	
TT30	555	547	539	530	520	509	504	
TT4	859	835	812	788	763	737	724	
PT9	7.2	6.8	6.5	5.4	5.0	4.6	4.5	
PTD	9.4	9.0	8.6	8.1	7.6	7.1	6.9	
TT9	1319	1243	1169	1097	1030	967	936	
TTD	556	547	540	530	520	509	504	
WAS/WAP	0.0276	0.0269	0.0261	0.0253	0.0252	0.0246	0.0243	
VENG	1614	1568	1488	1436	1190	1048	981	
VDUCT	1055	1047	1039	1030	1021	1009	1005	
AJCDE	5.20	5.20	5.21	5.21	5.20	5.20	5.20	
AJCDD	4.27	4.27	4.27	4.27	4.27	4.27	4.27	

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MO	0.90	PAM	3.3	PT2	5.6	WBL4	0.
VA KTS	516	TAM	390	TT2	453	HPEXT	0.

PART PWR

FNT	11659	11008	10344	9618	8845	8096	7170	6092
FGT	19156	18505	17842	17115	16320	15376	14178	12748
WAT	277	277	277	277	276	269	259	248
WFT	11552	10728	9961	9153	8384	7586	6686	5704
TSFC	0.991	0.975	0.963	0.952	0.948	0.937	0.932	0.936
BPR	1.30	1.34	1.37	1.42	1.46	1.47	1.52	1.62
WAT2	685	685	685	685	683	665	640	608
N1	6158	6138	6068	6035	5969	5698	5387	5051
N2	7863	7700	7577	7473	7370	7262	7143	7000
PT30	17.5	16.4	15.4	14.2	12.9	12.6	12.1	11.7
PT4	77.5	75.0	72.5	69.9	67.2	63.7	58.8	52.5
TT30	673	657	641	625	610	603	594	583
TT4	1072	1053	1036	1019	1002	979	953	921
PT9	14.2	13.7	13.1	12.6	12.0	11.3	10.4	9.3
PTD	16.9	15.8	14.7	13.5	12.2	11.8	11.4	11.0
TT9	1995	1917	1838	1759	1681	1604	1527	1452
TTD	673	657	641	625	611	603	594	584
WAS/WAP	0.0332	0.0325	0.0318	0.0311	0.0304	0.0298	0.0292	0.0284
VENG	1973	1935	1896	1856	1816	1775	1733	1691
VDUCT	1160	1146	1133	1119	1105	1099	1091	1081
AJCDE	5.21	5.20	5.21	5.21	5.20	5.21	5.21	5.21
AJCDD	3.08	3.29	3.55	3.87	4.27	4.27	4.27	4.27

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	3.00
MO	0.90	PAM	3.3	PT2	5.6	WBL4	0.
VA KTS	516	TAM	390	TT2	453	HPEXT	0.

PART PWR

FNT	5111	4518	3622	2971	2359	1768	1234	758
FGT	11408	10328	9346	8456	7587	6708	5874	5097
WAT	233	222	212	203	193	182	171	160
WFT	4857	4174	3600	3080	2600	2173	1810	1503
TSFC	0.950	0.968	0.996	1.037	1.102	1.229	1.466	1.683
BPR	1.71	1.77	1.80	1.84	1.89	1.94	1.98	2.02
WAT2	575	549	525	501	478	451	424	396
N1	4749	4560	4407	4262	4105	3934	3735	3487
N2	6850	6685	6513	6330	6137	5931	5735	5567
PT30	11.2	10.7	10.3	9.8	9.3	8.8	8.2	7.7
PT4	46.9	42.7	39.2	35.9	32.7	29.5	26.4	23.4
TT30	574	566	558	550	542	532	522	512
TT4	891	866	843	820	796	772	747	720
PT9	8.2	7.5	6.8	6.2	5.6	5.2	4.8	4.5
PTD	10.5	10.1	9.6	9.2	8.8	8.3	7.7	7.2
TT9	1378	1302	1227	1152	1079	1011	946	885
TTD	575	566	558	550	542	532	522	513
WAS/WAP	0.0277	0.0271	0.0265	0.0259	0.0253	0.0248	0.0242	0.0237
VENG	1648	1604	1558	1511	1397	1217	1075	942
VDUCT	1073	1064	1057	1049	1041	1032	1023	1013
AJCDE	5.20	5.21	5.21	5.20	5.20	5.20	5.20	5.20
AJCDD	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27

OCT 4, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	36150	WASIZE	640	PT2/PT2P	1.000	WRL3	3.00
MO	3.90	PAM	5.3	PT2	5.6	WRL4	0.
VA FTS	516	TAM	393	TT2	453	HPLXT	C.

PART PWR

FNT	344
FGT	4393
WAT	149
WFT	1236
TSFC	3.534
BPR	2.03
WAT2	373
N1	3204
N2	5385
PT3D	7.1
PT4	20.5
TT3D	502
TT4	632
PT9	4.2
PTD	6.7
TT9	427
TTD	532
WAS/WAP	0.0231
VENG	815
VOUCT	1003
AJCDE	5.21
AJCDD	4.27

OCT 4, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794, THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

CONFIDENTIAL

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

PERFORMANCE WITH HIGH PRESSURE COMPRESSOR AIRBLEED AND NO POWER EXTRACTION

Pages	IAMB	Power Setting	Flow Schedule
B-D74	STD. Day	Take-Off	Base
B-D75 to B-D82	STD. Day	Max Thrust	Base
B-D83 to B-D84	STD. Day	Max Thrust	High
B-D85 to B-D86	STD. Day	Max Thrust	Low
B-D87 to B-D88	STD. Day	Cruise	Base
B-D89 to B-D90	STD. Day	Cruise	High
B-D91 to B-D92	STD. Day	Cruise	Low
B-D93 to B-D96	STD. Day	Part Power	Base

ALT	0	WASIZE		PT2/PT2P	1.000	WBL3	0.
MN	.000	PAM	14.7	PT2	14.7	WBL4	3.00
VA KTS	0	TAM	519	TT2	519	WPEXT	0.

TAKE OFF MAX D/H — MIN D/H NOT LET

FNT	55254	51334	50425	49350	47303	45567	40938
FGT	55254	52038	50425	49350	47303	45567	40938
WAT	660	660	660	660	660	660	660
WFT	118773	82318	76652	73121	66425	59047	50183
TSFC	1.047	1.040	1.036	1.031	1.027	1.017	0.982
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31
WAT2	660	660	660	660	660	660	660
N1	5423	5423	5423	5423	5423	5393	5423
N2	7460	7460	7460	7460	7460	7460	7460
PT30	39.1	39.1	39.1	39.1	39.1	39.1	39.1
PT4	175.1	175.1	175.1	175.1	175.1	175.1	175.1
TT30	722	722	722	722	722	722	722
TT4	1123	1123	1123	1123	1123	1123	1123
PT9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
PTD	35.7	35.6	35.7	35.9	36.2	36.5	37.0
TT9	1468	1468	1468	1468	1468	1468	1468
TTD	1740	1720	2490	2500	2250	2000	1400
WAS/WAP	0.0443	0.0444	0.0432	0.0413	0.0408	0.0392	0.0359
VENG	1977	1977	1977	1977	1977	1977	1977
VDUCT	2457	2457	2457	2293	2293	1976	1684
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	7.12	7.07	7.00	7.14	6.87	6.270	5.01

OCT 4, 1964

ALT	0	WASIZE		PT2/PT2P	1.000	WBL3	0.
MN	.000	PAM	14.7	PT2	14.7	WBL4	3.00
VA KTS	0	TAM	519	TT2	519	WPEXT	0.

TAKE OFF MAX D/H — MIN D/H NOT LET

FNT	52333	47135	47464	45410	44367	42364	37545
FGT	56862	53044	51693	50345	48968	46872	42124
WAT	653	653	653	653	653	653	653
WFT	73366	57536	52619	49444	48404	42671	33116
TSFC	1.038	1.032	1.030	1.029	1.026	1.024	1.013
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31
WAT2	653	653	653	653	653	653	653
N1	5424	5423	5423	5423	5423	5423	5423
N2	7469	7469	7469	7469	7469	7469	7469
PT30	39.1	39.1	39.1	39.1	39.1	39.1	39.1
PT4	175.1	175.1	175.1	175.1	175.1	175.1	175.1
TT30	722	722	722	722	722	722	722
TT4	1127	1127	1127	1127	1127	1127	1127
PT9	31.8	31.8	31.8	31.8	31.8	31.8	31.8
PTD	35.2	35.3	35.2	35.5	35.8	36.0	37.0
TT9	1464	1464	1464	1464	1464	1464	1464
TTD	1740	1720	2490	2500	2250	2000	1400
WAS/WAP	0.0443	0.0444	0.0432	0.0413	0.0408	0.0392	0.0359
VENG	1977	1977	1977	1977	1977	1977	1977
VDUCT	2457	2457	2457	2293	2293	1976	1684
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	7.12	7.07	7.00	7.14	6.87	6.270	5.01

OCT 4, 1964

ALT	0	WASIZE		PT2/PT2P	1.000	WBL3	0.
MN	.000	PAM	14.7	PT2	14.7	WBL4	3.00
VA KTS	0	TAM	519	TT2	519	WPEXT	0.

TAKE OFF MAX D/H — MIN D/H NOT LET

FNT	52516	49182	46965	45161	43106	42336	36210
FGT	51334	49152	46935	46751	52996	50926	45860
WAT	691	691	691	691	691	691	691
WFT	114515	84362	76202	68558	61466	55064	40875
TSFC	1.049	1.036	1.029	1.019	1.014	1.032	1.129
BPR	1.36	1.36	1.36	1.36	1.36	1.36	1.36
WAT2	629	629	629	629	629	629	629
N1	5961	5961	5961	5961	5961	5961	5961
N2	8018	8018	8018	8018	8018	8018	8018
PT30	61.9	61.9	61.9	61.9	61.9	61.9	61.9
PT4	183.6	183.6	183.6	183.6	183.6	183.6	183.6
TT30	736	736	736	736	736	736	736
TT4	1133	1133	1133	1133	1133	1133	1133
PT9	33.4	33.4	33.4	33.4	33.4	33.4	33.4
PTD	37.1	37.0	37.1	37.4	37.7	38.0	38.5
TT9	1395	1395	1395	1395	1395	1395	1395
TTD	1740	1720	2490	2500	2250	2000	1400
WAS/WAP	0.0444	0.0434	0.0429	0.0413	0.0409	0.0388	0.0352
VENG	1970	1970	1970	1970	1970	1970	1970
VDUCT	2457	2457	2457	2293	2293	1976	1684
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	7.11	7.03	6.99	7.14	6.87	6.270	5.01

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ALT	4000	WASIZE		PT2/PT2P	1.000	WBL3	0.
MN	.000	PAM	12.9	PT2	12.9	WBL4	3.00
VA KTS	0	TAM	497	TT2	497	WPEXT	0.

TAKE OFF MAX D/H — MIN D/H NOT LET

FNT	47344	44590	43291	41368	40565	38538	34972
FGT	47344	44590	43255	41368	40565	39834	34972
WAT	536	536	536	536	536	536	536
WFT	83171	67370	61900	55075	49668	44432	32943
TSFC	1.057	1.041	1.033	1.023	1.015	1.133	1.942
BPR	1.25	1.29	1.25	1.29	1.25	1.29	1.29
WAT2	655	655	655	655	655	655	655
N1	5944	5944	5944	5944	5944	5944	5944
N2	7923	7923	7923	7923	7923	7923	7923
PT30	32.6	32.6	32.6	32.6	32.6	32.6	32.6
PT4	144.6	144.6	144.6	144.6	144.6	144.6	144.6
TT30	703	703	703	703	703	703	703
TT4	1099	1099	1099	1099	1099	1099	1099
PT9	26.3	26.3	26.3	26.3	26.3	26.3	26.3
PTD	29.5	29.5	29.4	30.0	30.3	30.5	30.9
TT9	1390	1390	1390	1390	1390	1390	1390
TTD	1740	1720	2490	2500	2250	2000	1400
WAS/WAP	0.0441	0.0434	0.0421	0.0424	0.0415	0.0401	0.0374
VENG	1971	1971	1971	1971	1971	1971	1971
VDUCT	2457	2457	2307	2203	2093	1976	1684
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.12	9.06	7.40	7.13	6.88	6.19	4.98

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ALT	6000	WASIZE		PT2/PT2P	1.000	WBL3	0.
MN	.000	PAM	11.8	PT2	11.8	WBL4	3.00
VA KTS	0	TAM	497	TT2	497	WPEXT	0.

TAKE OFF MAX D/H — MIN D/H NOT LET

FNT	44055	42237	40870	39480	38033	36499	32317
FGT	44764	45322	44585	43155	41748	40214	36032
WAT	547	547	547	547	547	547	547
WFT	83662	67370	61184	55212	49760	44585	33025
TSFC	1.052	1.031	1.019	1.009	1.008	1.022	1.022
BPR	1.37	1.30	1.30	1.30	1.30	1.30	1.30
WAT2	652	652	652	652	652	652	652
N1	5932	5932	5932	5932	5932	5932	5932
N2	7932	7932	7932	7932	7932	7932	7932
PT30	33.3	33.3	33.3	33.3	33.3	33.3	33.3
PT4	147.2	147.2	147.2	147.2	147.2	147.2	147.2
TT30	706	706	706	706	706	706	706
TT4	1103	1103	1103	1103	1103	1103	1103
PT9	26.9	26.9	26.9	26.9	26.9	26.8	26.8
PTD	29.5	29.5	30.6	30.8	30.8	31.0	31.5
TT9	1390	1390	1390	1390	1390	1390	1390
TTD	1740	1720	2490	2500	2250	2000	1400
WAS/WAP	0.0439	0.0432	0.0426	0.0426	0.0413	0.0399	0.0363
VENG	1971	1971	1971	1971	1971	1971	1971
VDUCT	2457	2457	2307	2203	2093	1976	1684
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.14	9.09	7.61	7.14	6.87	6.20	5.00

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ALT	6000	WASIZE		PT2/PT2P	1.000	WBL3	0.
MN	.000	PAM	11.8	PT2	11.8	WBL4	3.00
VA KTS	0	TAM	497	TT2	497	WPEXT	0.

TAKE OFF MAX D/H — MIN D/H NOT LET

FNT	45230	42105	40639	39117	37534	35856	31369
FGT	53131	49375	48510	46988	44605	43729	39240
WAT	573	573	573	573	573	573	573
WFT	87493	71111	64332	58018	52263	46768	34926
TSFC	1.043	1.683	1.681	1.693	1.392	1.304	1.106
BPR	1.33	1.30	1.30	1.30	1.30	1.30	1.30
WAT2	644	644	644	644	644	644	644
N1	5900	5900	5900	5900	5900	5900	5900
N2	7961	7961	7961	7961	7961	7961	7961
PT30	35.2	35.2	35.2	35.2	35.2	35.2	35.2
PT4	155.5	155.5	155.5	155.5	155.5	155.5	155.5
TT30	716	716	716	716	716	716	716
TT4	1116	1116	1116	1116	1116	1116	1116
PT9	28.3	28.3	28.3	28.3	28.3	28.3	28.3
PTD	31.2	31.2	31.8	32.0	32.5	32.8	33.2
TT9	1390	1390	1390	1390	1390	1390	1390
TTD	1740	1720	2490	2500	2250	2000	1400
WAS/WAP	0.0426	0.0417	0.0434	0.0421	0.0408	0.0394	0.0359
VENG	1970	1970	1970	1970	1970	1970	1970
VDUCT	2617	2407	2307	2203	2093	1976	1661
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.19	8.12	7.65	7.19	6.71	6.24	5.04

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DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

ALT	0	WAISIZE	640	PT2/PT2P	1.000	WRL3	0.
MN	.000	P&W	14.7	PT2	14.7	WRL4	3.00
VA KTS	0	TAM	519	TT2	519	WPLRT	0.

MAXTHR MAX D/H — MIN D/H NOT LIT

FNT	59394	57128	54857	47300	45567	40935	35556
FGT	59394	57128	54857	47300	45567	40935	35556
WAT	640	640	640	640	640	640	640
WFT	121936	82316	76452	57121	50429	36067	26965
TSFC	.8962	.5962	.5976	.5971	.5977	.6782	.6756
RPM	1.00	1.00	1.00	1.00	1.00	1.00	1.00
WAT2	640	640	640	640	640	640	640

N1	5693	5693	5693	5693	5693	5693	5360
N2	7680	7680	7680	7680	7680	7680	7659
PT30	39.1	39.1	39.1	39.1	39.1	39.1	40.9
PT4	172.1	172.1	172.1	172.1	172.1	172.1	179.0
TT30	722	722	722	722	722	722	735
TT4	1123	1123	1123	1123	1123	1123	1138

PT9	31.3	31.3	31.3	31.3	31.3	31.3	32.5
PT0	36.7	36.6	36.7	36.6	36.7	36.5	37.0	38.5
TT9	1448	1448	1448	1398	1398	1398	1368	1368
TT0	1967	1960	2750	2150	2250	2000	1404	735
WAS/WAP	0.04671	0.04644	0.04	0.04433	0.04436	0.04392	0.04354	0.04314
VENG	1970	1970	1970	1970	1970	1970	1910	1969
VDUCT	2617	2457	2379	2253	2551	1976	1654	1212
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.32	8.07	7.60	7.14	6.67	6.20	5.93	5.24

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ALT	0	WAISIZE	640	PT2/PT2P	1.000	WRL3	0.
MN	.400	P&W	14.7	PT2	14.7	WRL4	3.00
VA KTS	340	TAM	514	TT2	523	WPLRT	0.

MAXTHR MAX D/H — MIN D/H NOT LIT

FNT	52933	49105	47454	44410	44160	42366	37[illegible]	32788
FGT	56762	53644	51951	50195	48604	46472	42[illegible]	36617
WAT	653	653	653	653	653	653	653	653
WFT	249346	83326	72015	55444	50796	32671	25[illegible]	20221
TSFC	.8448	.5639	.5937	.5429	.5436	.6266	.6[illegible]	.6857
RPM	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
WAT2	637	637	637	637	637	637	637	637

N1	5879	5873	5870	5870	5870	5870	5779	5329
N2	7683	7683	7683	7685	7685	7684	7684	7658
PT30	39.4	39.4	39.4	39.8	39.8	39.8	39.8	41.7
PT4	175.0	174.6	174.6	174.6	174.6	174.6	174.6	184.3
TT30	725	725	725	725	725	725	725	735
TT4	1127	1127	1127	1127	1127	1127	1127	1142

PT9	31.8	31.8	31.8	31.8	31.8	31.8	31.8	33.0
PT0	35.2	35.2	35.2	35.2	35.2	35.2	37.0	37.5
TT9	1398	1398	1398	1398	1398	1398	1398	1398
TT0	1967	1960	2750	2150	2250	2000	1404	735
WAS/WAP	0.04659	0.04643	0.04	0.04433	0.04436	0.04392	0.04354	0.04313
VENG	1970	1970	1970	1970	1970	1970	1910	1969
VDUCT	2617	2457	2379	2253	2551	1976	1654	1212
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.18	8.12	7.65	7.18	6.71	6.24	5.98	5.29

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ALT	0	WAISIZE	640	PT2/PT2P	1.000	WRL3	0.
MN	.600	P&W	14.7	PT2	14.7	WRL4	3.00
VA KTS	345	TAM	519	TT2	535	WPLRT	0.

MAXTHR MAX D/H — MIN D/H NOT LIT

FNT	52310	49160	46985	45161	43576	41336	38210	33264
FGT	61116	54352	52135	54751	52698	50928	45810	39794
WAT	641	641	641	641	641	641	641	641
WFT	144554	93148	78700	68564	61484	48481	39[illegible]	29[illegible]
TSFC	.7[illegible]	.5[illegible]	.5[illegible]	.5[illegible]	.5[illegible]	.5[illegible]	.5[illegible]	.6[illegible]
RPM	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
WAT2	641	641	641	641	641	641	641	641

N1	5961	5961	5961	5961	5961	5961	5961	5896
N2	8018	8018	8018	8018	8018	8018	8018	8040
PT30	41.8	41.8	41.8	41.8	41.9	41.9	41.9	44.1
PT4	183.6	183.6	183.6	183.6	183.6	183.6	183.6	191.8
TT30	734	734	734	734	734	734	734	747
TT4	1133	1134	1138	1139	1139	1139	1139	1155

PT9	33.4	33.4	33.4	33.4	33.4	33.4	33.4	34.7
PT0	39.1	39.1	39.1	39.1	39.7	39.0	39.5	42.4
TT9	1398	1398	1398	1398	1398	1398	1398	1398
TT0	1967	1960	2750	2150	2250	2000	1415	747
WAS/WAP	0.04665	0.04638	0.04615	0.04413	0.04402	0.04386	0.04352	0.04310
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2457	2368	2203	2093	1976	1675	1222
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	9.31	8.29	7.79	7.28	6.80	6.32	5.14	5.30

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ALT	0	WAISIZE	640	PT2/PT2P	1.000	WRL3	0.
MN	.800	P&W	14.7	PT2	14.7	WRL4	3.00
VA KTS	389	TAM	514	TT2	554	WPLRT	0.

MAXTHR MAX D/H — MIN D/H NOT LIT

FNT	46873	44[illegible]	42729	40456	38[illegible]	37[illegible]	33[illegible]	28[illegible]
FGT	52562	49[illegible]	47[illegible]	45[illegible]	43[illegible]	41[illegible]	36[illegible]	29[illegible]
WAT	653	653	653	653	653	653	653	653
WFT	118554	84[illegible]	61[illegible]	54[illegible]	44[illegible]	34[illegible]	27[illegible]	21[illegible]
TSFC	.7[illegible]	.5[illegible]	.5[illegible]	.5[illegible]	.5[illegible]	.5[illegible]	.5[illegible]	.5[illegible]
RPM	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
WAT2	653	653	653	653	653	653	653	653

N1	5763	5763	5763	5763	5763	5763	5763	5692
N2	8063	8063	8063	8063	8063	8063	8063	8084
PT30	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.0
PT4	197.0	197.0	197.0	197.0	197.0	197.0	197.0	204.0
TT30	749	749	749	749	749	749	749	761
TT4	1157	1157	1157	1157	1157	1157	1157	1174

PT9	35.7	35.7	35.7	35.7	35.7	35.7	35.7	37.1
PT0	40.2	40.0	40.3	40.1	40.2	40.2	40.2	44.1
TT9	1388	1388	1388	1388	1388	1388	1388	1388
TT0	1960	2750	2150	2250	2000	1404	735	747
WAS/WAP	0.04657	0.04631	0.04612	0.04414	0.04403	0.04383	0.04345	0.04306
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2457	2359	2203	2093	1976	1674	1234
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDO	9.34	8.45	7.94	7.47	6.99	6.44	5.17	5.42

OCT 4, 1964

ALT	0	WAISIZE	640	PT2/PT2P	1.000	WRL3	0.
MN	.973	P&W	14.7	PT2	20.4	WRL4	3.00
VA KTS	461	TAM	519	TT2	589	WPLRT	0.

MAXTHR MAX D/H — MIN D/H NOT LIT

FNT	37144	32668	32276	29052	25641	23134	20505	17926
FGT	39437	31935	33766	30439	26105	24067	20172	17635
WAT	902	902	902	902	902	902	902	902
WFT	121936	70512	67751	59695	50381	42522	36254	27561
TSFC	2.124	1.957	1.766	1.638	1.562	1.469	1.253	1.222
RPM	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
WAT2	906	906	906	906	906	906	906	906

N1	5723	5723	5723	5723	5723	5723	5723	5779
N2	8090	8090	8090	8090	8090	8090	8090	8115
PT30	48.3	48.3	48.3	48.3	48.3	48.3	48.3	50.6
PT4	205.4	205.4	205.4	205.4	205.4	205.4	205.4	214.8
TT30	758	758	758	758	758	758	758	771
TT4	1158	1164	1169	1158	1169	1168	1168	1185

PT9	37.7	37.2	37.2	37.2	37.2	37.2	37.2	38.9
PT0	42.3	43.2	43.0	44.6	44.6	44.3	44.6	44.6
TT9	1448	1398	1398	1398	1398	1398	1398	1398
TT0	3560	3100	2750	2250	2250	2000	1437	771
WAS/WAP	0.04652	0.04624	0.04614	0.04403	0.04388	0.04374	0.04342	0.04300
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2357	2203	2593	1976	1683	1241
AJCDE	5.21	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDO	9.71	8.74	8.24	7.78	7.29	6.82	6.39	5.50

OCT 4, 1964

ALT	15000	WAISIZE	640	PT2/PT2P	1.000	WRL3	0.
MN	.400	P&W	8.3	PT2	8.3	WRL4	3.00
VA KTS	329	TAM	465	TT2	465	WPLRT	0.

MAXTHR MAX D/H — MIN D/H NOT LIT

FNT	35071	32959	31822	30764	29616	28436	25039	21187
FGT	37776	35563	34529	33468	32322	31137	27742	23840
WAT	611	611	611	611	611	611	611	611
WFT	63269	51311	44516	42372	37969	36088	29256	23003
TSFC	1.406	1.467	1.462	1.368	1.282	1.199	1.021	1.003
RPM	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
WAT2	674	674	674	674	674	674	674	674

N1	6026	6026	6026	6026	6026	6026	6026	6053
N2	7860	7860	7860	7860	7860	7860	7860	7900
PT30	24.9	24.9	24.9	24.9	24.9	24.9	24.9	26.1
PT4	110.3	110.3	110.3	110.3	110.3	110.3	110.3	114.5
TT30	678	678	678	678	678	678	678	692
TT4	1068	1069	1068	1068	1069	1068	1068	1080

PT9	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.9
PT0	22.1	22.6	22.7	22.6	23.1	23.3	23.6	25.2
TT9	1992	1992	1992	1992	1992	1992	1992	1992
TT0	3560	3100	2750	2250	2250	2000	1362	686
WAS/WAP	0.04635	0.04607	0.04594	0.04401	0.04427	0.04413	0.04376	0.04329
VENG	1972	1972	1972	1972	1972	1972	1972	1971
VDUCT	2617	2407	2307	2253	2093	1976	1696	1176
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.17	8.19	7.69	7.18	6.69	6.22	6.15	5.24

OCT 4, 1964

THIS DOC MENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	0.
MN	.643	P&W		8.1	PT2	9.9	WBL4	3.00
VA KTS	541	T&W		465	TT2	490	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	40416	37044	33965	30724	24691	28194	26547	20300
FGT	41215	39782	37661	34681	31228	33932	30265	26098
WAT	636	636	636	636	636	636	636	636
WFT	66736	64225	60131	54406	46056	35937	26685	17934
TSFC	1.685	1.651	1.560	1.445	1.358	1.275	1.279	0.801
BPR	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
WAT2	666	666	666	666	666	666	666	666
N1	5987	5987	5987	5987	5987	5987	5987	6026
N2	7874	7874	7874	7874	7874	7874	7874	7904
PT30	26.5	26.5	26.5	26.5	26.5	26.5	26.5	27.7
PT4	117.2	117.2	117.2	117.2	117.2	117.2	117.2	121.6
TT30	686	686	686	686	686	686	686	699
TT4	1078	1078	1078	1078	1078	1078	1078	1092
PT9	21.4	21.4	21.4	21.4	21.4	21.4	21.4	22.2
PT0	24.7	24.7	24.7	24.7	24.7	24.7	24.7	25.8
TT9	1992	1992	1992	1992	1992	1992	1992	1992
TT0	2567	2567	2567	2567	2567	2567	2567	2567
WAS/WAP	0.0683	0.0683	0.0684	0.0684	0.0422	0.0408	0.0410	0.0325
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2417	2417	2417	2293	2093	1976	1645	1182
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.17	8.13	7.63	7.16	6.74	6.22	6.97	3.16

OCT 4, 1966

ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	0.
MN	.643	P&W		8.1	PT2	9.8	WBL4	3.00
VA KTS	541	T&W		465	TT2	490	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	36377	33774	32556	31291	26978	28585	26756	20100
FGT	41820	41266	40744	39744	37670	36087	33247	27762
WAT	636	636	636	636	636	636	636	636
WFT	66713	64641	61156	56204	49662	41167	32570	24626
TSFC	1.718	1.672	1.571	1.437	1.340	1.305	1.314	1.581
BPR	1.33	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	661	661	661	661	661	661	661	661
N1	5961	5961	5961	5961	5961	5961	5961	6003
N2	7841	7841	7841	7841	7841	7841	7841	7900
PT30	27.6	27.6	27.6	27.6	27.6	27.6	27.6	29.0
PT4	122.1	122.1	122.1	122.1	122.1	122.1	122.1	127.1
TT30	696	696	696	696	696	696	696	726
TT4	1067	1067	1067	1067	1067	1067	1067	1102
PT9	22.3	22.3	22.3	22.3	22.3	22.3	22.3	23.3
PT0	25.5	25.5	25.5	25.5	25.4	25.4	25.4	27.0
TT9	1992	1992	1992	1992	1992	1992	1992	1992
TT0	2567	2567	2567	2567	2567	2567	2567	2567
WAS/WAP	0.0685	0.0684	0.0685	0.0682	0.0681	0.0680	0.0680	0.0327
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2417	2417	2417	2293	2093	1976	1645	1182
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.14	8.12	7.68	7.19	6.71	6.23	6.98	3.16

OCT 4, 1966

ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	0.
MN	.643	P&W		8.1	PT2	10.0	WBL4	3.00
VA KTS	376	T&W		455	TT2	459	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	37702	34886	33570	32058	30793	29298	25219	20437
FGT	47170	44356	43038	41676	40261	38766	34668	29505
WAT	480	480	480	480	480	480	480	480
WFT	73216	69277	65854	62634	58868	39104	28309	19468
TSFC	1.496	1.509	1.598	1.506	1.417	1.335	1.146	0.552
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	654	654	654	654	654	654	654	654
N1	5933	5933	5933	5933	5933	5933	5933	5976
N2	7815	7815	7815	7815	7815	7815	7815	7838
PT30	29.0	29.0	29.0	29.0	29.0	29.0	29.0	30.6
PT4	124.7	124.7	124.7	124.7	124.7	124.7	124.7	133.7
TT30	702	702	702	702	702	702	702	735
TT4	1099	1099	1099	1099	1099	1099	1099	1113
PT9	23.5	23.5	23.5	23.5	23.5	23.5	23.5	24.3
PT0	26.7	26.7	26.6	26.7	26.6	27.1	27.4	29.5
TT9	1991	1991	1991	1991	1991	1991	1991	1991
TT0	2567	2567	2567	2567	2567	2567	2567	2567
WAS/WAP	0.0680	0.0683	0.0681	0.0677	0.0676	0.0400	0.0304	0.0319
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2417	2417	2417	2293	2093	1976	1645	1182
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.23	8.16	7.68	7.21	6.74	6.26	6.03	3.22

OCT 4, 1966

ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	0.
MN	.643	P&W		8.3	PT2	10.0	WBL4	3.00
VA KTS	376	T&W		455	TT2	459	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	37702	34886	33570	32058	30793	29298	25219	20437
FGT	47170	44356	43038	41676	40261	38766	34668	29505
WAT	480	480	480	480	480	480	480	480
WFT	73216	69277	65854	62634	58868	39104	28309	19468
TSFC	1.496	1.509	1.598	1.506	1.417	1.335	1.146	0.552
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	654	654	654	654	654	654	654	654
N1	5933	5933	5933	5933	5933	5933	5933	5976
N2	7815	7815	7815	7815	7815	7815	7815	7838
PT30	29.0	29.0	29.0	29.0	29.0	29.0	29.0	30.6
PT4	124.7	124.7	124.7	124.7	124.7	124.7	124.7	133.7
TT30	702	702	702	702	702	702	702	735
TT4	1099	1099	1099	1099	1099	1099	1099	1113
PT9	23.5	23.5	23.5	23.5	23.5	23.5	23.5	24.3
PT0	26.7	26.7	26.6	26.7	26.6	27.1	27.4	29.5
TT9	1991	1991	1991	1991	1991	1991	1991	1991
TT0	2567	2567	2567	2567	2567	2567	2567	2567
WAS/WAP	0.0680	0.0683	0.0681	0.0677	0.0676	0.0400	0.0304	0.0319
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2417	2417	2417	2293	2093	1976	1645	1182
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.23	8.16	7.68	7.21	6.74	6.26	6.03	3.22

OCT 4, 1966

ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	0.
MN	.643	P&W		8.3	PT2	10.6	WBL4	3.00
VA KTS	401	T&W		465	TT2	525	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	41533	38[illegible]	[illegible]9	36035	33101	31513	26804	21184
FGT	55837	52507	50927	49243	47396	45811	41165	34496
WAT	546	546	546	546	546	546	546	546
WFT	82485	76637	70219	64762	58788	43602	32297	21544
TSFC	1.741	1.744	1.644	1.552	1.465	1.384	1.265	1.217
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.31
WAT2	638	638	638	638	638	638	638	638
N1	5961	5961	5961	5961	5961	5961	5961	5911
N2	7977	7977	7977	7977	7977	7977	7977	7959
PT30	32.7	32.7	32.7	32.7	32.7	32.7	32.7	34.4
PT4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	150.9
TT30	723	723	723	723	723	723	723	716
TT4	1126	1126	1126	1126	1126	1126	1126	1142
PT9	26.3	26.3	26.3	26.3	26.3	26.3	26.3	27.1
PT0	28.8	29.6	29.7	29.9	30.1	30.4	30.4	33.1
TT9	1991	1991	1991	1991	1991	1991	1991	1990
TT0	3560	3060	2750	2500	2250	2000	1465	737
WAS/WAP	0.0469	0.0442	0.0430	0.0417	0.0404	0.0390	0.0395	0.0312
VENG	1971	1971	1971	1971	1971	1971	1971	1970
VDUCT	2417	2417	2367	2293	2093	1976	1665	1213
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.40	8.36	7.82	7.34	6.86	6.37	5.26	3.31

OCT 4, 1966

ALT	15000	WASIZE		640	PT2/PT2P	1.000	WBL3	0.
MN	1.03	P&W		9.3	PT2	15.7	WBL4	3.00
VA KTS	626	T&W		465	TT2	558	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	47317	43090	41115	39033	34986	34231	29106	22175
FGT	68045	63859	61664	59422	57209	55430	49955	42926
WAT	631	631	631	631	631	631	631	631
WFT	95722	86954	69343	62236	55795	49593	36625	27931
TSFC	2.022	1.786	1.687	1.593	1.509	1.428	1.258	1.375
BPR	1.41	1.41	1.41	1.47	1.41	1.41	1.41	1.38
WAT2	613	613	613	613	613	613	613	613
N1	5769	5769	5769	5769	5769	5769	5769	5805
N2	8052	8052	8052	8052	8052	8052	8052	8077
PT30	37.7	37.7	37.7	37.7	37.7	37.7	37.7	39.5
PT4	162.5	162.5	162.5	162.5	162.5	162.5	162.5	169.9
TT30	747	747	747	747	747	747	747	760
TT4	1156	1156	1156	1156	1156	1156	1156	1173
PT9	29.5	29.5	29.5	29.5	29.5	29.5	29.5	30.8
PT0	32.9	33.6	33.9	34.2	34.4	34.8	35.3	37.9
TT9	1990	1990	1990	1990	1990	1990	1990	1990
TT0	3560	3060	2750	2500	2250	2000	1417	760
WAS/WAP	0.0459	0.0430	0.0418	0.0405	0.0392	0.0378	0.0365	0.0302
VENG	1971	1971	1971	1971	1971	1971	1971	1970
VDUCT	2417	2417	2108	2301	2093	1976	1672	1232
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	9.78	8.66	8.13	7.63	7.12	6.61	5.40	3.48

OCT 4, 1966

ALT	25000	WASIZE		440	PT2/PT2P	1.000	WBL3	0.
MN	.823	P&W		5.5	PT2	9.6	WBL4	3.00
VA KTS	520	T&W		432	TT2	451	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	24206	22642	21975	21232	20453	19631	17675	14266
FGT	26013	24906	23782	23040	222A0	21439	19882	16073
WAT	286	286	286	286	286	286	286	286
WFT	54025	35575	32219	29136	24236	21520	16749	11043
TSFC	1.817	1.568	1.466	1.372	1.283	1.198	0.981	0.777
BPR	1.33	1.31	1.31	1.31	1.31	1.31	1.31	1.30
WAT2	684	684	684	684	684	684	684	684
N1	5951	5951	5951	5951	5951	5951	5951	5987
N2	7624	7624	7624	7624	7624	7624	7624	7674
PT30	16.5	16.4	16.5	16.5	16.5	16.5	16.5	17.3
PT4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	76.4
TT30	625	625	623	625	625	625	625	637
TT4	1030	1000	1000	1000	1000	1000	1000	1014
PT9	13.5	13.5	13.5	13.4	13.5	13.5	13.5	13.9
PT0	14.6	14.7	14.9	15.0	15.1	15.3	15.5	16.7
TT9	1901	1901	1901	1901	1901	1901	1901	1900
TT0	3560	3060	2750	2500	2250	2000	1414	737
WAS/WAP	0.0512	0.0483	0.0469	0.0454	0.0440	0.0425	0.0381	0.0331
VENG	1927	1927	1927	1927	1927	1927	1927	1927
VDUCT	2417	2417	2367	2293	2093	1976	1665	1213
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.88	8.69	8.18	7.68	7.19	6.69	5.56	3.49

OCT 4, 1966

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS DOD DIR 5200.10

ALT	25000	WASIZE	640	PT2/PT2P	1.000	WRL3	0.	
MN	0.60	PAM	5.5	PT2	6.1	WRL4	3.00	
VA KTS	361	TAM	430	TT2	444	WPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	25557	23635	22036	21389	21115	20187	17803	14266
FGT	29266	27527	26716	25972	24968	24075	21276	17452
WAT	504	504	504	504	504	504	504	504
WFT	47560	39635	34881	31556	29462	29521	18376	12267
TSFC	1.476	1.429	1.428	1.437	1.367	1.284	1.057	0.861
RPM	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.30
WAT2	686	686	686	686	686	686	686	686
N1	6039	6035	6035	6039	6035	6039	6039	6035
N2	7725	7725	7725	7725	7725	7725	7725	7374
PT2D	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15.8
PT4	80.3	80.3	80.3	80.3	80.3	80.3	80.3	69.3
TT3D	660	660	660	660	660	660	660	652
TT4	1025	1025	1025	1025	1025	1025	1025	1039
PT9	34.7	34.7	34.7	34.7	34.7	34.7	34.7	35.2
PT0	15.7	16.0	16.2	16.3	16.5	16.6	16.7	16.1
TT9	1950	1950	1950	1950	1950	1950	1950	1949
TT0	3560	3000	2750	2500	2250	2000	1728	652
WA3/WAP	0.0504	0.0474	0.0466	0.0462	0.0457	0.0422	0.0380	0.0331
VENG	1951	1951	1951	1951	1951	1951	1951	1950
VDUCT	2617	2407	2307	2203	2092	1976	1620	1142
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.76	8.58	8.09	7.87	7.07	6.56	5.14	3.20

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ALT	25000	WASIZE	640	PT2/PT2P	1.000	WRL3	0.	
MN	0.80	PAM	5.5	PT2	8.1	WRL4	3.00	
VA KTS	482	TAM	430	TT2	485	WPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	31213	29721	27561	26186	25122	23814	20141	15929
FGT	41026	39517	37375	35183	34935	33634	29598	25746
WAT	389	389	389	389	389	389	389	389
WFT	59427	49217	43869	39447	35563	31887	23465	15429
TSFC	1.937	1.679	1.586	1.496	1.416	1.339	1.163	0.996
RPM	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	663	663	663	663	663	661	663	663
N1	5966	5966	5966	5966	5966	5966	5966	6005
N2	7870	7870	7870	7870	7870	7870	7870	7498
PT2D	23.3	23.3	23.3	23.3	23.3	23.3	23.3	20.6
PT4	103.7	103.7	103.7	103.7	103.7	103.7	103.7	107.6
TT3D	688	688	688	688	688	688	688	700
TT4	1081	1081	1081	1081	1081	1081	1081	1095
PT9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	19.6
PT0	20.6	21.1	21.3	21.4	21.6	21.8	22.1	23.6
TT9	1393	1393	1393	1393	1393	1393	1393	1393
TT0	3560	3000	2750	2500	2250	2000	1729	701
WA3/WAP	0.0497	0.0460	0.0447	0.0434	0.0420	0.0406	0.0369	0.0323
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2407	2307	2203	2093	1976	1666	1144
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.30	8.21	7.76	7.26	6.78	6.30	5.04	3.21

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ALT	25000	WASIZE	640	PT2/PT2P	0.992	WRL3	0.	
MN	1.10	PAM	5.5	PT2	11.6	WRL4	3.00	
VA KTS	667	TAM	430	TT2	534	WPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	34437	34478	33376	31723	30013	28214	23528	17896
FGT	55879	52025	50621	48770	47060	44261	40435	34301
WAT	491	491	491	491	491	491	491	491
WFT	76406	60082	54246	48405	43441	39120	29887	19109
TSFC	1.933	1.718	1.625	1.538	1.461	1.387	1.228	1.070
RPM	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.34
WAT2	630	630	630	630	630	630	630	630
N1	5822	5822	5822	5822	5822	5822	5822	5876
N2	7885	7885	7885	7885	7885	7885	7885	8009
PT2D	29.1	29.1	29.1	29.1	29.1	29.1	29.1	30.7
PT4	128.5	128.5	128.5	128.5	128.5	128.5	128.5	134.2
TT3D	727	727	727	727	727	727	727	760
TT4	1133	1133	1133	1133	1133	1133	1133	1169
PT9	23.6	23.6	23.6	23.6	23.6	23.6	23.6	24.3
PT0	25.5	26.1	26.3	26.5	26.8	27.0	27.4	29.5
TT9	1992	1992	1992	1992	1992	1992	1992	1991
TT0	3560	3000	2750	2500	2250	2000	1469	760
WA3/WAP	0.0488	0.0433	0.0427	0.0416	0.0400	0.0387	0.0352	0.0309
VENG	1972	1972	1972	1972	1972	1972	1972	1971
VDUCT	2617	2407	2307	2207	2093	1976	1667	1217
AJCDE	5.22	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.96	8.53	8.03	7.54	7.04	6.53	5.30	3.39

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ALT	25000	WASIZE	640	PT2/PT2P	0.995	WRL3	0.	
MN	1.20	PAM	5.5	PT2	14.9	WRL4	3.00	
VA KTS	792	TAM	430	TT2	575	WPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	46660	46253	38210	36104	33928	31460	25007	17903
FGT	68692	66745	62002	59526	57721	55432	49780	42595
WAT	579	579	579	579	579	579	579	579
WFT	104234	70961	63465	56835	50790	45042	33134	21163
TSFC	1.971	1.755	1.661	1.574	1.497	1.424	1.275	1.124
RPM	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.45
WAT2	602	602	602	602	602	602	602	602
N1	5694	5684	5684	5684	5684	5684	5684	5732
N2	8073	8073	8073	8073	8073	8073	8073	8099
PT3D	34.3	34.3	34.3	34.3	34.3	34.3	34.3	35.9
PT4	145.3	145.3	145.3	145.3	145.3	145.3	145.3	151.8
TT3D	754	758	758	758	758	758	758	769
TT4	1167	1167	1167	1167	1167	1167	1167	1184
PT9	26.3	26.3	26.3	26.3	26.3	26.3	26.3	27.5
PT0	29.4	30.4	30.7	31.0	31.3	31.5	32.0	34.3
TT9	1991	1991	1991	1991	1991	1991	1991	1991
TT0	3560	3000	2750	2500	2250	2000	1434	769
WA3/WAP	0.0491	0.0425	0.0412	0.0394	0.0380	0.0373	0.0340	0.0297
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2304	2203	2093	1976	1683	1240
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.39	8.90	8.39	7.84	7.33	6.81	5.58	3.62

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WRL3	0.	
MN	0.60	PAM	5.5	PT2	5.7	WRL4	3.00	
VA KTS	339	TAM	390	TT2	403	WPEXT	0.	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	15250	14227	13764	12938	12156	12163	10245	9220
FGT	17584	16561	16078	15572	15046	14477	12579	10556
WAT	196	196	196	196	196	196	196	196
WFT	24647	23831	21557	19425	17423	15569	10831	6759
TSFC	1.943	1.875	1.784	1.667	1.571	1.282	1.038	0.822
RPM	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.32
WAT2	685	685	685	685	685	685	685	685
N1	5767	5767	5767	5767	5767	5767	5767	5776
N2	7291	7291	7291	7291	7291	7291	7291	7339
PT3D	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.8
PT4	46.9	46.9	46.9	46.9	46.9	46.9	46.9	49.7
TT3D	573	573	573	573	573	573	573	583
TT4	925	925	925	925	925	925	925	938
PT9	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.8
PT0	8.8	9.0	9.1	9.2	9.2	9.4	9.7	10.4
TT9	1758	1758	1758	1758	1758	1758	1758	1758
TT0	3560	3000	2750	2500	2250	2000	1765	883
WA3/WAP	0.0526	0.0495	0.0481	0.0464	0.0450	0.0434	0.0383	0.0329
VENG	1855	1855	1855	1855	1855	1855	1855	1855
VDUCT	2617	2407	2307	2203	2092	1676	1581	1081
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.06	9.68	9.09	8.50	7.92	7.33	5.55	3.34

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

ALT	36153	WASIZE	560	PT2/PT2P	1.000	WRL3		0.
MU	1.493	PAM	3.3	PT2		WRL4		5.00
VA KTS	586	TAM	330	TT2		HPLET		0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	13791	13047	12439	11740	11235	11455	11268	4842
FGT	21117	19406	19113	18694	18054	17376	15147	12801
WAT	217	217	217	217	217	217	217	217
WFT	33296	26906	24264	21311	17691	17621	12280	7557
TSFC	1.1054	1.0697	1.0575	1.0483	1.0331	1.0310	1.0099	0.9955
RPM	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.31
MAT2	686	686	686	686	686	686	686	686
N1	5966	5966	5966	5966	5966	5966	5966	5978
N2	7667	7667	7667	7667	7667	7667	7667	7693
PT30	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.6
PT4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.1
TT30	598	598	598	598	598	598	598	609
TT4	961	961	961	961	961	961	961	975
PT9	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.2
PT0	14.6	14.6	14.7	14.8	14.9	14.9	14.9	15.1
TT9	1832	1832	1832	1832	1832	1832	1832	1831
TT0	3560	3560	3560	3560	3560	3560	3560	3560
WAS/WAP	0.0519	0.0499	0.0484	0.0469	0.0445	0.0429	0.0382	0.0330
VENG	1973	1973	1973	1973	1973	1973	1973	1973
VDUCT	2617	2607	2597	2583	2032	1976	1847	1104
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	13.52	9.23	8.67	8.12	7.57	7.02	5.38	3.28

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ALT	36153	WASIZE	560	PT2/PT2P	1.000	WRL3		0.
MU	1.493	PAM	3.3	PT2		WRL4		5.00
VA KTS	586	TAM	330	TT2		HPLET		0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	22439	21235	20220	19427	18668	17625	16436	11332
FGT	35626	29832	27767	26476	25268	24272	21787	17516
WAT	217	217	217	217	217	217	217	217
WFT	42060	36027	31566	28551	25784	23130	16736	11327
TSFC	1.1969	1.1464	1.1257	1.1076	1.1004	1.1026	1.1159	1.1554
RPM	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
MAT2	685	685	685	685	685	685	685	685
N1	6045	6045	6045	6045	6045	6045	6045	6137
N2	7793	7793	7793	7793	7793	7793	7793	7860
PT30	14.1	14.1	14.1	14.1	14.1	14.1	14.1	15.4
PT4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	77.6
TT30	652	652	652	652	652	652	652	666
TT4	1044	1044	1044	1044	1044	1044	1044	1059
PT9	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.8
PT0	19.1	19.4	19.7	19.8	19.9	19.9	19.9	20.4
TT9	1935	1935	1936	1936	1936	1936	1935	1935
TT0	3560	3560	3560	3560	3560	3560	3560	3560
WAS/WAP	0.0536	0.0474	0.0442	0.0423	0.0405	0.0420	0.0374	0.0331
VENG	1973	1973	1973	1973	1973	1973	1973	1973
VDUCT	2617	2607	2597	2583	2093	1976	1847	1104
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.75	8.53	8.01	7.59	7.08	6.57	5.17	3.24

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ALT	36150	WASIZE	560	PT2/PT2P	0.931	WRL3		0.
MU	1.493	PAM	3.3	PT2	7.9	WRL4		5.00
VA KTS	644	TAM	390	TT2	504	HPLET		0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	27205	26591	25167	24116	22422	21465	17775	13370
FGT	42534	37416	34199	31694	30655	34297	30609	26203
WAT	355	355	355	355	355	355	355	355
WFT	54250	43976	39695	35797	32225	29445	21718	14180
TSFC	1.1958	1.1451	1.1585	1.1484	1.1412	1.1346	1.1196	1.1061
RPM	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.31
MAT2	651	651	651	651	651	651	651	651
N1	5906	5906	5906	5906	5906	5906	5906	5966
N2	7895	7895	7895	7895	7895	7895	7895	7914
PT30	21.0	21.0	21.0	21.0	21.0	21.0	21.0	22.0
PT4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	97.5
TT30	700	700	700	700	700	700	700	712
TT4	1098	1098	1098	1098	1098	1098	1098	1113
PT9	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.7
PT0	24.5	24.9	25.0	25.2	25.3	25.5	25.4	26.2
TT9	1994	1994	1994	1994	1994	1994	1994	1994
TT0	3560	3560	3560	3560	3560	3560	3560	3560
WAS/WAP	0.0674	0.0602	0.0639	0.0625	0.0613	0.0599	0.0562	0.0518
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2607	2597	2583	2093	1976	1852	1193
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.54	8.45	7.96	7.47	6.97	6.48	5.20	3.31

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ALT	36150	WASIZE	560	PT2/PT2P	0.971	WRL3		0.
MU	1.493	PAM	3.3	PT2	11.3	WRL4		5.00
VA KTS	660	TAM	390	TT2	566	HPLET		0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	37243	33455	31704	29413	26055	26127	13211	15378
FGT	54134	46169	42622	40926	38869	47022	42133	39595
WAT	463	463	463	463	463	463	463	463
WFT	73548	56582	50910	46410	40805	36724	26566	17027
TSFC	1.1835	1.1691	1.1606	1.1524	1.1455	1.1187	1.1252	1.1123
RPM	1.46	1.46	1.46	1.46	1.46	1.46	1.45	1.44
MAT2	604	604	604	604	604	604	604	604
N1	5703	5703	5701	5703	5703	5703	5703	5762
N2	8038	8038	8038	8038	8038	8038	8038	8066
PT30	27.0	27.0	27.0	27.0	27.0	27.0	27.0	28.1
PT4	116.2	116.2	116.2	116.2	116.2	116.2	116.2	121.5
TT30	767	767	767	767	767	767	767	784
TT4	1157	1157	1157	1157	1157	1157	1157	1173
PT9	21.1	21.1	21.1	21.1	21.1	21.1	21.1	22.0
PT0	29.1	29.7	29.9	29.9	29.5	29.7	29.1	29.1
TT9	1934	1934	1934	1934	1594	1934	1934	1943
TT0	3560	3560	3560	3560	3560	3560	1425	759
WAS/WAP	0.0695	0.0628	0.0616	0.0603	0.0589	0.0376	0.0362	0.0299
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2607	2597	2583	2093	1976	1677	1232
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.27	9.06	8.52	7.99	7.45	6.92	5.65	3.63

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ALT	36150	WASIZE	560	PT2/PT2P	0.945	WRL3		0.
MU	1.493	PAM	3.3	PT2	17.8	WRL4		5.00
VA KTS	1032	TAM	390	TT2	643	HPLET		0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	47598	42128	39608	37023	34350	31951	25311	16617
FGT	80318	74447	72327	69743	67070	64270	58030	49337
WAT	634	604	604	604	604	604	604	604
WFT	91202	72273	64567	57557	51106	44911	33131	20326
TSFC	1.1916	1.1716	1.1637	1.1556	1.1488	1.1423	1.1309	1.1205
RPM	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.60
MAT2	555	555	555	555	555	555	555	555
N1	5438	5438	5438	5438	5438	5438	5438	5539
N2	8177	8177	8177	8177	8177	8177	8177	8213
PT30	36.1	36.1	36.1	36.1	36.1	36.1	36.1	37.8
PT4	143.2	143.2	143.2	143.2	143.2	143.2	143.2	149.2
TT30	813	813	813	813	813	813	813	823
TT4	1222	1222	1222	1222	1222	1222	1222	1238
PT9	25.9	25.9	25.9	25.9	25.6	25.9	25.9	26.9
PT0	31.1	31.8	32.1	32.4	32.7	32.9	33.4	35.9
TT9	1993	1993	1993	1993	1993	1993	1993	1592
TT0	3560	3300	2750	2500	2250	2000	1685	823
WAS/WAP	0.0629	0.0601	0.0591	0.0579	0.0566	0.0552	0.0523	0.0281
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2608	2598	2203	2093	1976	1711	1282
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.21	5.21
AJCDD	10.44	9.21	8.66	8.11	7.58	7.03	5.88	3.89

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ALT	45000	WASIZE	660	PT2/PT2P	1.000	WRL3		0.
MU	1.450	PAM	2.1	PT2		WRL4		2.00
VA KTS	747	TAM	430	TT2		HPLET		0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	10612	9612	9276	8921	8569	8155	6410	4623
FGT	12363	11623	11285	10932	10560	10167	9521	7656
WAT	134	134	134	134	134	134	134	134
WFT	21273	15462	15219	13640	12203	10988	7385	4562
TSFC	1.0340	1.0752	1.0681	1.0515	1.0434	1.0362	1.0284	1.0053
RPM	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.35
MAT2	685	685	685	685	685	685	685	685
N1	5818	5818	5818	5818	5818	5818	5818	5954
N2	7804	7804	7804	7804	7804	7804	7804	7863
PT30	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.3
PT4	32.2	32.2	32.2	32.2	32.2	32.2	32.2	33.5
TT30	577	577	577	577	577	577	577	584
TT4	939	939	939	939	939	939	939	952
PT9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.1
PT0	5.8	6.0	6.1	6.1	6.2	6.3	6.5	7.0
TT9	1744	1744	1744	1744	1744	1744	1744	1744
TT0	3560	3300	2750	2500	2250	2000	1755	994
WAS/WAP	0.0574	0.0693	0.0673	0.0654	0.0634	0.0432	0.0381	0.0228
VENG	1874	1874	1874	1874	1874	1874	1874	1874
VDUCT	2617	2607	2597	2202	2092	1976	1775	1045
AJCDL	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.65	10.18	9.55	8.92	8.30	7.66	5.77	3.47

APR 24, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

ALT	45000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.	
MU	1.20	PAM	2.1	PT2	3.3	WBL4	3.00	
VA KTS	459	TAM	390	TT2	440	HPLRT	0.	
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	13107	12261	11601	11105	10785	10639	9331	6446
FGT	17139	16274	15594	15097	14778	14632	12926	10439
WAT	156	156	156	156	156	156	156	156
WFT	25769	25769	18796	14155	12278	11681	9668	6139
TSFC	1.394	1.713	1.620	1.532	1.464	1.441	1.190	0.981
BPR	1.35	1.35	1.35	1.35	1.35	1.36	1.34	1.34
WAT2	685	685	685	685	685	685	685	685
N1	6023	6023	6023	6023	6023	6023	6023	6050
N2	7586	7586	7586	7586	7586	7586	7586	7626
PT3D	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.4
PT4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	43.0
TT3D	619	619	619	619	619	619	619	631
TT4	1004	1004	1004	1004	1004	1004	1004	1019
PT9	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.9
PTD	7.5	7.7	7.8	7.9	8.0	8.1	8.1	9.0
TT9	1359	1353	1348	1339	1336	1338	1339	1434
TTD	3550	3500	2750	2500	2250	2000	1309	631
WAS/WAP	0.0111	0.0441	0.0668	0.0653	0.0635	0.0626	0.0379	0.0329
VENG	1965	1965	1965	1965	1965	1965	1965	1965
VDUCT	2617	2607	2307	2203	2093	1976	1708	1329
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.09	9.72	9.11	8.64	7.96	7.37	5.69	3.47

OCT 4, 1964

ALT	45000	WASIZE	640	PT2/PT2P	0.991	WBL3	0.	
MU	1.20	PAM	2.1	PT2	5.2	WBL4	3.00	
VA KTS	449	TAM	390	TT2	502	HPLRT	0.	
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	18756	17566	16760	15972	14973	13756	11320	9469
FGT	27157	25965	25161	24372	23036	22156	19721	16869
WAT	233	233	233	233	233	233	233	233
WFT	35665	24180	21524	20566	21064	19860	14744	9699
TSFC	1.402	1.687	1.598	1.516	1.462	1.371	1.215	1.077
BPR	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.34
WAT2	651	651	651	651	651	651	651	651
N1	5833	5849	5834	5866	5849	5832	5849	5833
N2	7467	7463	7467	7467	7467	7467	7467	7472
PT3D	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.8
PT4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	62.3
TT3D	690	690	690	690	690	690	690	702
TT4	1091	1091	1091	1091	1091	1091	1091	1103
PT9	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.4
PTD	11.3	11.6	11.7	11.8	11.6	12.1	12.3	13.3
TT9	1434	1428	1428	1428	1428	1428	1428	1498
TTD	3560	3000	2750	2500	2250	2000	1374	702
WAS/WAP	0.0680	0.0643	0.0660	0.0627	0.0613	0.0599	0.0363	0.0314
VENG	1975	1974	1975	1975	1975	1975	1975	1974
VDUCT	2617	2607	2307	2203	2093	1976	1667	1285
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.83	9.57	8.93	7.99	7.46	6.92	5.22	3.47

OCT 4, 1964

ALT	45000	WASIZE	640	PT2/PT2P	0.971	WBL3	0.	
MU	1.20	PAM	2.1	PT2	7.7	WBL4	3.00	
VA KTS	869	TAM	390	TT2	566	HPLRT	0.	
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	26025	21570	20611	19285	18055	16785	13565	9507
FGT	37214	35761	34824	32954	31746	30476	27236	23159
WAT	303	303	303	303	303	303	303	303
WFT	46612	37162	33414	29916	26729	23699	17229	10913
TSFC	1.992	1.723	1.635	1.553	1.480	1.412	1.272	1.148
BPR	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.47
WAT2	608	608	608	608	608	608	608	608
N1	5682	5682	5682	5682	5682	5682	5682	5726
N2	7996	7996	7996	7996	7996	7996	7996	8025
PT3D	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.9
PT4	74.2	74.2	74.2	74.2	74.2	74.2	74.2	77.6
TT3D	739	739	739	739	739	739	739	751
TT4	1149	1149	1149	1149	1149	1149	1149	1165
PT9	13.5	13.5	13.5	13.5	13.5	13.5	13.5	14.1
PTD	14.5	14.8	15.0	15.2	15.4	15.5	15.7	17.0
TT9	1397	1397	1397	1397	1397	1397	1397	1597
TTD	3560	3000	2750	2500	2250	2000	1419	751
WAS/WAP	0.0656	0.0629	0.0616	0.0603	0.0590	0.0576	0.0342	0.0298
VENG	1976	1974	1974	1974	1974	1974	1974	1974
VDUCT	2617	2607	2309	2203	2093	1976	1673	1325
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.94	9.65	9.05	8.48	7.90	7.32	5.44	3.80

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ALT	45000	WASIZE	640	PT2/PT2P	0.944	WBL3	0.	
MU	1.20	PAM	2.1	PT2	11.7	WBL4	3.00	
VA KTS	1032	TAM	390	TT2	643	HPLRT	0.	
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	30835	27766	25620	23332	22145	20353	16712	10493
FGT	52264	49679	47834	45568	44398	41752	37425	31904
WAT	395	395	395	395	395	395	395	395
WFT	59989	47486	42641	37747	33502	29408	21536	12976
TSFC	1.966	1.742	1.657	1.577	1.510	1.445	1.329	1.227
BPR	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.64
WAT2	555	555	555	555	555	555	555	555
N1	5472	5472	5472	5472	5472	5472	5472	5512
N2	8128	8128	8128	8128	8128	8128	8128	8168
PT3D	22.9	22.9	22.9	22.9	22.9	22.9	22.9	24.5
PT4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	95.5
TT3D	806	806	806	806	806	806	806	816
TT4	1215	1215	1215	1215	1215	1215	1215	1230
PT9	16.6	16.6	16.6	16.6	16.6	16.6	16.6	17.3
PTD	19.5	20.0	20.2	20.4	20.4	20.8	21.1	22.7
TT9	1997	1497	1497	1597	1397	1937	1937	1596
TTD	3560	3000	2750	2500	2250	2000	1479	816
WAS/WAP	0.0632	0.0604	0.0592	0.0579	0.0566	0.0553	0.0323	0.0280
VENG	1976	1974	1974	1974	1974	1974	1974	1974
VDUCT	2617	2609	2308	2203	2093	1976	1707	1276
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.00	9.68	9.10	8.52	7.94	7.37	6.13	4.05

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ALT	45000	WASIZE	640	PT2/PT2P	0.925	WBL3	0.	
MU	2.00	PAM	2.1	PT2	15.6	WBL4	3.00	
VA KTS	1147	TAM	390	TT2	702	HPLRT	0.	
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	36163	31681	29618	27692	26294	23507	18346	11353
FGT	64321	59890	57826	56059	53507	51214	46591	39561
WAT	469	469	469	469	469	469	469	469
WFT	69979	54097	49016	43395	38323	33468	24949	14520
TSFC	1.931	1.736	1.655	1.575	1.515	1.454	1.357	1.279
BPR	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.69
WAT2	515	515	515	515	515	515	515	515
N1	5429	5429	5429	5429	5429	5429	5429	5469
N2	8164	8164	8164	8164	8164	8164	8164	8211
PT3D	28.9	28.9	28.9	28.9	28.9	28.9	28.9	30.0
PT4	107.7	107.7	107.7	107.7	107.7	107.7	107.7	111.9
TT3D	863	863	863	863	863	863	863	872
TT4	1270	1270	1270	1270	1270	1270	1270	1285
PT9	19.4	19.4	19.4	19.4	19.4	19.4	19.4	20.1
PTD	24.9	25.5	25.7	26.0	26.2	26.4	26.7	28.4
TT9	1998	1998	1998	1998	1998	1998	1998	1995
TTD	3560	3000	2750	2500	2250	2000	1531	872
WAS/WAP	0.0612	0.0587	0.0575	0.0563	0.0551	0.0538	0.0312	0.0271
VENG	1976	1974	1974	1976	1974	1974	1974	1973
VDUCT	2617	2608	2308	2203	2093	1976	1736	1319
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.26	9.06	8.52	7.99	7.46	6.93	5.90	4.01

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ALT	55000	WASIZE	640	PT2/PT2P	0.992	WBL3	0.	
MU	1.20	PAM	1.3	PT2	2.6	WBL4	2.00	
VA KTS	531	TAM	390	TT2	486	HPLRT	0.	
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	12554	7635	4206	1764	8305	7825	6418	4830
FGT	19438	14016	13567	13166	12687	12206	10799	9231
WAT	132	132	132	132	132	132	132	132
WFT	22760	20706	15097	13625	12228	10930	7833	5261
TSFC	1.967	1.734	1.660	1.592	1.572	1.397	1.223	1.069
BPR	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.37
WAT2	663	663	663	663	663	663	663	663
N1	5977	5977	5977	5977	5977	5977	5977	6001
N2	7763	7763	7763	7763	7763	7763	7763	7789
PT3D	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.5
PT4	33.5	33.5	33.5	33.5	33.5	33.5	33.5	34.8
TT3D	666	666	666	666	666	666	666	678
TT4	1066	1066	1066	1066	1066	1066	1066	1080
PT9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.4
PTD	6.1	6.2	6.3	6.4	6.4	6.5	6.6	7.2
TT9	2003	2003	2003	2003	2003	2003	2003	2004
TTD	3560	3000	2750	2500	2250	2000	1445	678
WAS/WAP	0.0690	0.0662	0.0648	0.0635	0.0621	0.0608	0.0386	0.0320
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2617	2607	2307	2203	2092	1976	1630	1164
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.37	9.72	9.13	8.54	7.96	7.37	5.79	3.61

APR 24, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	55000	WASIZE		64C	PT2/PT2P	0.991	WBL3	0.
MO	1.20	PAW		1.1	PT2	3.2	WBL4	3.00
VA KTS	698	TAW		590	TT2	502	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	11147	10181	9209	9221	8716	8183	6665	4910
FGT	14401	13188	11915	11424	13521	13390	11972	10117
WAT	144	144	144	144	144	144	144	144
WFT	22732	17959	16181	15556	13283	11456	8340	5582
TSFC	1.786	1.708	1.665	1.578	1.665	1.625	1.257	1.112
BPR	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.18
WAT2	651	651	651	651	651	651	651	651
N1	5989	5989	5989	5989	5989	5989	5989	5923
N2	7778	7778	7778	7778	7778	7778	7778	7410
PT30	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0
PT4	35.6	35.6	35.6	35.6	35.6	35.6	35.6	37.1
TT30	675	675	675	675	675	675	675	688
TT4	1079	1079	1079	1079	1079	1079	1079	1093
PT9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.8
PTO	6.5	6.5	6.6	6.6	6.7	6.8	6.9	7.6
TT9	2003	2003	2003	2003	2003	2003	2003	2003
TTO	3560	3000	2750	2503	2250	2000	1761	698
WAS/WAP	0.0481	0.0454	0.0441	0.0427	0.0417	0.0398	0.0360	0.0316
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2617	2407	2307	2203	2093	1976	1669	1173
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	11.65	10.21	9.59	9.47	8.19	7.73	6.10	4.77

OCT 4, 1964

ALT	55000	WASIZE		64C	PT2/PT2P	0.971	WBL3	0.
MO	1.57	PAW		1.3	PT2	4.7	WBL4	3.00
VA KTS	863	TAW		550	TT2	546	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	14434	13166	12350	11564	10907	10032	8001	5529
FGT	22923	21632	20742	19859	18278	17518	16447	14314
WAT	144	144	144	144	144	144	144	144
WFT	24476	23161	22347	19580	16372	14663	10735	6550
TSFC	2.037	1.987	1.946	1.811	1.633	1.567	1.383	1.185
BPR	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.51
WAT2	608	608	608	608	608	608	608	608
N1	5651	5651	5651	5651	5651	5651	5651	5654
N2	7623	7623	7623	7623	7623	7623	7623	7572
PT30	6.8	6.8	6.8	6.8	6.8	6.8	6.8	13.4
PT4	44.1	44.1	44.1	44.1	44.1	44.1	44.1	47.3
TT30	726	726	726	726	726	726	726	739
TT4	1134	1134	1134	1134	1134	1134	1134	1154
PT9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.4
PTO	8.1	8.1	8.1	8.2	8.3	8.4	8.6	9.4
TT9	2003	2003	2003	2003	2003	2003	2003	2003
TTO	3560	3000	2750	2500	2250	2000	1467	739
WAS/WAP	0.0457	0.0433	0.0417	0.0416	0.0390	0.0376	0.0340	0.0296
VENG	1977	1977	1977	1977	1977	1977	1977	1976
VDUCT	2617	2407	2307	2203	2093	1976	1666	1215
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	12.33	10.80	10.13	9.97	8.66	8.14	6.55	4.84

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ALT	55000	WASIZE		64C	PT2/PT2P	0.945	WBL3	0.
MO	1.80	PAW		1.1	PT2	7.2	WBL4	3.00
VA KTS	1032	TAW		490	TT2	443	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	18473	16508	15499	14663	13389	12261	9856	6134
FGT	31365	29780	28771	27715	26661	25533	22927	19286
WAT	245	245	245	245	245	245	245	245
WFT	37427	29577	24422	23456	20789	18219	13191	7760
TSFC	2.032	1.762	1.705	1.622	1.553	1.486	1.366	1.269
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.70
WAT2	555	555	555	555	555	555	555	555
N1	5439	5439	5439	5439	5439	5439	5439	5480
N2	8047	8047	8047	8047	8047	8047	8047	8101
PT30	13.4	13.4	13.4	13.4	13.4	13.4	13.4	14.1
PT4	54.7	54.7	54.7	54.7	54.7	54.7	54.7	57.1
TT30	796	796	796	796	796	796	796	806
TT4	1205	1205	1205	1205	1205	1205	1205	1220
PT9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	10.3
PTO	11.1	11.4	11.6	11.7	11.8	12.0	12.2	13.3
TT9	2003	2003	2003	2003	2003	2003	2003	2002
TTO	3560	3000	2750	2500	2250	2000	1470	806
WAS/WAP	0.0431	0.0405	0.0393	0.0380	0.0367	0.0353	0.0322	0.0279
VENG	1977	1977	1977	1977	1977	1977	1977	1976
VDUCT	2617	2408	2308	2203	2093	1976	1762	1269
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	12.11	10.62	9.96	9.31	8.66	8.02	6.63	4.32

OCT 4, 1964

ALT	55000	WASIZE		64C	PT2/PT2P	0.925	WBL3	0.
MO	2.00	PAW		1.1	PT2	9.6	WBL4	3.00
VA KTS	1147	TAW		490	TT2	402	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	22007	19819	18044	16725	15372	13952	11035	6659
FGT	34582	32602	31527	30417	32458	31435	28519	24143
WAT	291	291	291	-	291	291	291	291
WFT	43556	34220	30474	26345	23775	20719	15111	8775
TSFC	1.971	1.771	1.689	1.611	1.547	1.485	1.387	1.318
BPR	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.74
WAT2	515	515	515	515	515	515	515	515
N1	5397	5397	5359	5399	5399	5399	5399	5415
N2	8085	8085	8085	8045	8085	8085	8085	8162
PT30	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.9
PT4	64.7	64.7	64.7	64.7	64.7	64.7	64.7	67.3
TT30	855	855	855	855	855	855	855	863
TT4	1261	1261	1261	1261	1261	1261	1261	1276
PT9	11.7	11.7	11.7	11.7	11.7	11.7	11.7	12.1
PTO	14.4	14.9	15.1	15.2	15.4	15.5	15.8	16.8
TT9	2001	2001	2001	2001	2001	2001	2001	2000
TTO	3560	3000	2750	2500	2250	2000	1523	863
WAS/WAP	0.0413	0.0388	0.0376	0.0364	0.0351	0.0338	0.0311	0.0270
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2617	2408	2308	2203	2093	1976	1732	1312
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	11.00	9.68	9.10	8.52	7.95	7.37	6.25	4.22

OCT 4, 1964

ALT	55000	WASIZE		64C	PT2/PT2P	0.904	WBL3	0.
MO	2.20	PAW		1.1	PT2	12.9	WBL4	3.00
VA KTS	1262	TAW		390	TT2	367	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	25772	22305	20217	19083	17400	15664	12528	7284
FGT	48393	44916	43327	41693	40010	38254	35136	29894
WAT	342	342	342	342	342	342	342	342
WFT	50040	39110	34726	30591	26850	23265	17681	9989
TSFC	1.942	1.753	1.676	1.603	1.543	1.487	1.412	1.371
BPR	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.74
WAT2	474	474	474	474	474	474	474	474
N1	5348	5348	5348	5348	5348	5348	5348	5392
N2	8106	8106	8106	8106	8106	8106	8106	8166
PT30	22.3	22.3	22.3	22.3	22.3	22.3	22.3	23.1
PT4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	79.5
TT30	921	921	921	921	921	921	921	930
TT4	1320	1320	1320	1320	1320	1320	1320	1336
PT9	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.3
PTO	19.5	19.9	20.1	20.2	20.4	20.5	20.7	21.9
TT9	2000	2000	2000	2000	2000	2000	2000	1999
TTO	3560	3000	2750	2500	2250	2000	1984	950
WAS/WAP	0.0395	0.0371	0.0360	0.0348	0.0336	0.0323	0.0301	0.0262
VENG	1976	1976	1976	1976	1976	1976	1976	1975
VDUCT	2618	2408	2308	2203	2093	1979	1765	1362
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	9.67	8.55	8.05	7.56	7.07	6.57	5.71	3.97

OCT 4, 1964

ALT	55000	WASIZE		64C	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAW		1.1	PT2	19.8	WBL4	3.00
VA KTS	1436	TAW		390	TT2	375	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	31216	26595	24470	22311	20086	17772	14223	8141
FGT	63377	58756	56639	54472	52247	49932	46883	40302
WAT	428	428	428	428	428	428	428	428
WFT	59902	46367	40931	35815	31175	26752	21491	11313
TSFC	1.919	1.743	1.672	1.605	1.552	1.505	1.460	1.403
BPR	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.71
WAT2	412	412	412	412	412	412	412	412
N1	5276	5276	5276	5276	5276	5276	5276	5333
N2	8115	8115	8115	8115	8115	8115	8115	8180
PT30	32.8	32.8	32.8	32.8	32.8	32.8	32.8	33.7
PT4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	101.9
TT30	1035	1035	1035	1035	1035	1035	1035	1045
TT4	1419	1419	1419	1419	1419	1419	1419	1435
PT9	17.4	17.4	17.4	17.4	17.4	17.4	17.4	18.1
PTO	29.8	30.2	30.3	30.5	30.6	30.8	30.9	32.3
TT9	1998	1998	1998	1998	1998	1998	1998	1997
TTO	3560	3000	2750	2500	2250	2000	1437	1045
WAS/WAP	0.0370	0.0347	0.0336	0.0324	0.0314	0.0302	0.0287	0.0253
VENG	1975	1975	1975	1975	1975	1975	1975	1975
VDUCT	2618	2408	2308	2204	2093	1977	1720	1441
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCOD	7.87	7.00	6.62	6.23	5.84	5.44	4.92	3.55

OCT 4, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS.

ALT	55000	WASIZE	640	PT2/PT2P	0.946	WBL3	0.
MO	2.79	FAM	1.1	PT2	26.1	WBL4	3.00
VA KTS	1548	TAM	390	TT2	956	WPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	35943	29967	27376	26755	22060	19261	16463	8677
FGT	76654	70921	64248	45625	62935	60135	57337	45551
WAT	503	503	503	503	503	503	503	503
WFT	68323	52255	45819	40217	34590	29417	24667	13335
TSFC	1.920	1.749	1.676	1.616	1.569	1.527	1.489	1.337
BPR	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.71
WAT2	382	382	382	382	382	382	382	382
N1	5241	5241	5241	5241	5241	5241	5241	5301
N2	8192	8192	8192	8192	8192	8192	8192	8231
PT30	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.9
PT4	116.0	114.0	116.0	116.7	116.6	116.6	114.0	125.6
TT30	1117	1117	1117	1117	1117	1117	1117	1125
TT4	1492	1492	1492	1492	1492	1492	1492	1508
PT9	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.4
PTD	39.7	39.1	39.2	39.4	39.5	39.7	39.8	41.2
TT9	1937	1937	1937	1937	1937	1937	1937	1936
TTD	3560	3000	2750	2500	2250	2000	1761	1125
WAS/WAP	0.0354	0.0332	0.0322	0.0312	0.0301	0.0290	0.0278	0.0246
VENG	1976	1976	1976	1974	1974	1974	1974	1976
VDUCT	2618	2408	2198	2206	2094	1977	1858	1455
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCOD	7.11	6.34	6.05	5.86	5.71	5.55	4.95	4.59

OCT 4, 1966

ALT	55000	WASIZE	640	PT2/PT2P	0.946	WBL3	0.
MO	1.62	FAM	0.6	PT2	3.6	WBL4	2.00
VA KTS	916	TAM	390	TT2	596	WPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	9561	9512	9331	7516	7522	6681	5835	4161
FGT	14609	14564	14367	13970	13758	12617	11367	9697
WAT	127	127	127	127	127	127	127	127
WFT	21371	19667	18738	13352	11269	10145	8772	5124
TSFC	2.206	1.933	1.931	1.732	1.666	1.555	1.493	1.255
BPR	1.70	1.70	1.70	1.70	1.70	1.72	1.70	1.67
WAT2	591	591	591	591	591	591	591	591
N1	9556	9556	9556	9556	9556	9556	9556	9636
N2	7403	7403	7403	7403	7403	7403	7403	7458
PT30	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.7
PT4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.7
TT30	738	738	738	738	738	738	738	749
TT4	1152	1152	1152	1152	1152	1152	1152	1198
PT9	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.6
PTD	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.2
TT9	2038	2008	2008	2008	2008	2008	2008	2037
TTD	3560	3000	2750	2500	2250	2000	1762	1125
WAS/WAP	0.1650	0.1623	0.1610	0.1576	0.1563	0.1369	0.1331	0.1241
VENG	1979	1977	1977	1977	1977	1977	1977	1977
VDUCT	2617	2607	2597	2203	2092	1976	1859	1426
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	14.12	12.78	11.98	10.79	9.31	8.14	7.24	4.57

APR 24, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.956	WBL3	0.
MO	1.70	FAM	0.6	PT2	3.4	WBL4	2.00
VA KTS	775	TAM	390	TT2	616	WPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	13603	9227	8686	8122	7563	6931	5187	3484
FGT	17524	16349	15835	15246	14684	14052	12508	10545
WAT	139	139	139	139	139	139	139	139
WFT	21939	17351	15647	13755	12175	10573	7618	4621
TSFC	2.115	1.890	1.765	1.693	1.614	1.540	1.396	1.276
BPR	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.73
WAT2	573	573	573	573	573	573	573	573
N1	9673	9673	9673	9673	9673	9673	9673	9508
N2	7937	7937	7937	7937	7937	7937	7937	7747
PT30	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.4
PT4	33.5	33.5	33.5	33.5	33.5	33.5	33.5	31.9
TT30	762	762	762	762	762	762	762	772
TT4	1175	1175	1175	1175	1175	1175	1175	1130
PT9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
PTD	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.9
TT9	2008	2008	2008	2008	2008	2008	2008	2008
TTD	3560	3000	2750	2500	2250	2000	1762	772
WAS/WAP	0.0661	0.0614	0.0602	0.0588	0.0575	0.0561	0.0526	0.0282
VENG	1979	1979	1979	1979	1979	1979	1979	1979
VDUCT	2617	2607	2597	2203	2093	1976	1678	1242
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	11.79	12.15	11.17	10.59	9.82	9.06	7.52	4.65

APR 24, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.965	WBL3	0.
MO	1.80	FAM	0.6	PT2	4.5	WBL4	2.00
VA KTS	1242	TAM	390	TT2	841	WPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	11346	10051	9633	9147	8137	7661	6510	4610
FGT	16514	16281	17663	17027	16367	15771	14662	11992
WAT	152	152	152	152	152	152	152	152
WFT	23365	19469	18697	16611	12496	11320	9114	4975
TSFC	2.056	1.960	1.769	1.681	1.590	1.521	1.447	1.330
BPR	1.79	1.79	1.77	1.79	1.79	1.79	1.79	1.77
WAT2	555	555	555	555	555	555	555	555
N1	9623	9623	9623	9623	9623	9623	9623	9657
N2	7963	7963	7963	7963	7963	7963	7963	8029
PT30	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.3
PT4	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.6
TT30	788	788	788	788	788	788	788	797
TT4	1193	1193	1193	1193	1193	1193	1193	1215
PT9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.2
PTD	6.3	6.5	6.6	6.7	6.8	6.9	7.1	7.6
TT9	2038	2008	2008	2008	2008	2008	2008	2037
TTD	3560	3000	2750	2500	2250	2000	1762	747
WAS/WAP	0.1512	0.1436	0.1393	0.1350	0.1307	0.1263	0.1173	0.0727
VENG	1979	1979	1979	1977	1979	1979	1979	1979
VDUCT	2617	2608	2598	2203	2093	1976	1678	1262
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	14.35	11.66	10.72	10.18	9.65	9.24	8.19	4.62

APR 24, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.925	WBL3	0.
MO	2.00	FAM	0.6	PT2	6.0	WBL4	3.00
VA KTS	1147	TAM	390	TT2	702	WPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	13336	11635	10851	10046	9211	8335	6487	3778
FGT	24178	22677	21692	20587	20052	19177	17328	14619
WAT	180	180	180	180	180	180	180	180
WFT	27216	21337	18976	16762	14761	12837	9356	5251
TSFC	2.241	1.834	1.749	1.669	1.603	1.540	1.442	1.390
BPR	1.93	1.83	1.83	1.83	1.83	1.83	1.83	1.81
WAT2	515	515	515	515	515	515	515	515
N1	5361	5361	5361	5361	5361	5361	5361	5395
N2	7970	7970	7970	7970	7970	7970	7970	8038
PT3D	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.4
PT4	38.2	38.2	38.2	38.2	38.2	38.2	38.2	39.8
TT3D	843	843	843	843	843	843	843	852
TT4	1247	1247	1247	1247	1247	1247	1247	1263
PT9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.2
PTD	8.2	8.4	8.5	8.6	8.7	8.8	9.0	9.7
TT9	2037	2007	2007	2007	2007	2007	2007	2006
TTD	3560	3000	2750	2500	2250	2000	1512	852
WAS/WAP	0.0414	0.0389	0.0377	0.0364	0.0351	0.0338	0.0310	0.0268
VENG	1979	1979	1979	1979	1979	1979	1979	1979
VDUCT	2617	2608	2598	2203	2092	1976	1726	1304
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	12.35	10.81	10.16	9.47	8.81	8.16	6.86	4.56

OCT 4, 1966

ALT	65000	WASIZE	640	PT2/PT2P	0.906	WBL3	0.
MO	2.20	FAM	0.6	PT2	8.0	WBL4	3.00
VA KTS	1262	TAM	390	TT2	767	WPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	15729	13569	12576	11561	10515	9422	7428	4166
FGT	29729	27581	26596	25581	24535	23663	21644	18184
WAT	212	212	212	212	212	212	212	212
WFT	31258	24409	21637	19330	16674	14415	10912	5987
TSFC	1.992	1.799	1.721	1.666	1.586	1.530	1.456	1.437
BPR	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.82
WAT2	474	474	474	474	474	474	474	474
N1	5304	5304	5304	5304	5304	5304	5304	5345
N2	7990	7990	7990	7990	7990	7990	7990	8068
PT3D	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.7
PT4	45.2	45.2	45.2	45.2	45.2	45.2	45.2	47.3
TT3D	910	910	910	910	910	910	910	919
TT4	1308	1308	1308	1308	1308	1308	1308	1324
PT9	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.6
PTD	11.4	11.5	11.6	11.7	11.8	11.9	12.1	12.9
TT9	2036	2006	2006	2006	2006	2006	2006	2005
TTD	3560	3000	2750	2500	2250	2000	1573	519
WAS/WAP	0.0397	0.0372	0.0360	0.0348	0.0336	0.0323	0.0300	0.0261
VENG	1979	1979	1979	1979	1979	1979	1979	1978
VDUCT	2618	2608	2598	2203	2093	1977	1753	1256
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	10.99	9.31	8.75	8.20	7.66	7.11	6.19	4.21

OCT 4, 1966

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ALT	65000	WASIZE	640	PT2/PT2P	0.810	WBL3	0.
MO	2.00	FAM	0.8	PT2	12.3	WBL4	1.00
VA KTS	1436	TAM	530	TT2	875	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	19192	15103	14943	13632	12244	10900	8966	6701
FGT	19124	16265	16926	16575	15187	10342	28726	24443
WAT	265	265	265	265	265	265	265	265
WFT	17349	24836	25485	22276	19367	16588	13701	7174
TSFC	1.1459	1.772	1.761	1.734	1.692	1.530	1.493	1.526
BPR	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
WAT2	412	412	412	412	412	412	412	412
N1	5232	5232	5232	5232	5232	5232	5232	5232
N2	8068	8068	8068	8068	8068	8068	8068	8068
PT3D	19.7	19.7	19.7	19.7	19.7	19.7	19.7	20.3
PT4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	60.8
TT3D	1026	1026	1026	1026	1026	1026	1026	1035
TT4	1409	1409	1409	1409	1409	1409	1409	1426
PT9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
PTO	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
TT9	2034	2034	2034	2034	2034	2034	2034	2003
TTO	1550	1550	1550	1550	1550	1550	1550	1550
WAS/WAP	0.0171	0.0164	0.0337	0.0326	0.0314	0.0304	0.0297	0.0292
VENG	1974	1974	1974	1974	1974	1974	1974	1977
VDUCT	2414	2414	2408	2234	2093	1977	1916	1435
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	6.33	7.37	6.96	6.55	6.14	5.72	5.35	5.71

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ALT	65000	WASIZE	640	PT2/PT2P	0.848	WBL3	0.
MO	2.00	FAM	0.8	PT2	16.9	WBL4	1.00
VA KTS	1564	TAM	530	TT2	954	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	21924	19412	18466	15171	13694	11761	9437	5056
FGT	47271	44358	42152	40517	38537	37087	35243	32402
WAT	312	312	312	312	312	312	312	312
WFT	42651	39572	29836	26496	21694	18252	15164	8379
TSFC	1.695	1.763	1.698	1.641	1.574	1.555	1.514	1.594
BPR	1.73	1.73	1.74	1.75	1.73	1.74	1.73	1.77
WAT2	382	382	382	382	382	382	382	382
N1	5143	5139	5185	5189	5195	5199	5143	5244
N2	8141	8141	8141	8141	8141	8141	8141	8178
PT3D	25.6	25.6	25.6	25.6	25.6	25.6	25.6	26.0
PT4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	72.5
TT3D	1109	1109	1109	1109	1109	1109	1109	1117
TT4	1462	1462	1462	1462	1462	1462	1462	1468
PT9	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9
PTO	21.5	21.5	21.6	21.7	21.8	21.9	24.0	24.2
TT9	2003	2003	2003	2003	2003	2003	2003	2001
TTO	1560	1560	1560	2756	2560	2250	2000	1753
WAS/WAP	0.0355	0.0343	0.0337	0.0326	0.0314	0.0304	0.0297	0.0292
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2414	2408	2358	2204	2093	1977	1916	1435
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.42	6.87	6.46	6.05	5.64	5.23	5.16	5.77

OCT 4, 1966

ALT	75000	WASIZE	640	PT2/PT2P	0.925	WBL3	0.
MO	2.00	FAM	0.5	PT2	3.7	WBL4	1.50
VA KTS	1154	TAM	395	TT2	711	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	8139	7368	6579	6781	5562	5017	3752	2194
FGT	14883	13412	13324	12826	12306	11762	10497	8939
WAT	111	111	111	111	111	111	111	111
WFT	18665	14792	12622	11106	9689	8360	5751	3149
TSFC	2.293	2.522	1.918	1.926	1.742	1.666	1.533	1.435
BPR	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.93
WAT2	515	515	515	515	515	515	515	515
N1	5360	5360	5360	5360	5360	5360	5360	5400
N2	7874	7874	7874	7874	7874	7874	7874	7952
PT3D	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.1
PT4	22.8	22.8	22.8	22.8	22.8	22.8	22.8	23.8
TT3D	843	843	843	843	843	843	843	852
TT4	1256	1256	1256	1256	1256	1256	1256	1271
PT9	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.3
PTO	4.5	4.7	4.7	4.8	4.9	5.0	5.1	5.6
TT9	2013	2013	2013	2013	2013	2013	2013	2011
TTO	3560	3000	2750	2500	2250	2000	1466	852
WAS/WAP	0.0414	0.0387	0.0375	0.0363	0.0349	0.0336	0.0305	0.0265
VENG	1982	1982	1982	1982	1982	1982	1982	1981
VDUCT	2617	2497	2307	2203	2093	1976	1700	1304
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	14.22	12.35	11.54	10.74	9.98	9.19	7.54	5.00

APR 24, 1964

ALT	75000	WASIZE	640	PT2/PT2P	0.925	WBL3	0.
MO	2.00	FAM	0.5	PT2	3.7	WBL4	2.00
VA KTS	1154	TAM	395	TT2	711	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	8139	7368	6579	6781	5562	5017	3752	2194
FGT	14883	13412	13324	12826	12306	11762	10497	8939
WAT	111	111	111	111	111	111	111	111
WFT	18665	14792	12622	11106	9689	8360	5751	3149
TSFC	2.293	2.522	1.918	1.926	1.742	1.666	1.533	1.435
BPR	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.93
WAT2	515	515	515	515	515	515	515	515
N1	5360	5360	5360	5360	5360	5360	5360	5400
N2	7874	7874	7874	7874	7874	7874	7874	7952
PT3D	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.1
PT4	22.8	22.8	22.8	22.8	22.8	22.8	22.8	23.8
TT3D	843	843	843	843	843	843	843	852
TT4	1256	1256	1256	1256	1256	1256	1256	1271
PT9	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.3
PTO	4.5	4.7	4.7	4.8	4.9	5.0	5.1	5.6
TT9	2013	2013	2013	2013	2013	2013	2013	2011
TTO	3560	3000	2750	2500	2250	2000	1466	852
WAS/WAP	0.0414	0.0387	0.0375	0.0363	0.0349	0.0336	0.0305	0.0265
VENG	1982	1982	1982	1982	1982	1982	1982	1981
VDUCT	2617	2497	2307	2203	2093	1976	1700	1304
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	14.22	12.35	11.54	10.74	9.98	9.19	7.54	5.00

APR 24, 1964

ALT	75000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.00	FAM	0.5	PT2	7.0	WBL4	2.00
VA KTS	1543	TAM	395	TT2	846	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	11765	10931	9108	8264	7337	6435	5276	2674
FGT	24133	22319	21516	20672	17805	16903	17084	15042
WAT	164	164	164	164	164	164	164	164
WFT	21276	17429	15761	13761	11929	10180	8054	4245
TSFC	1.795	1.805	1.733	1.665	1.613	1.567	1.527	1.588
BPR	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.48
WAT2	412	412	412	412	412	412	412	412
N1	5214	5214	5214	5214	5214	5214	5214	5254
N2	7991	7991	7991	7991	7991	7991	7991	8027
PT3D	11.8	11.8	11.8	11.8	11.8	11.8	11.8	12.1
PT4	34.7	34.7	34.7	34.7	34.7	34.7	34.7	36.1
TT3D	1028	1028	1028	1028	1028	1028	1028	1035
TT4	1413	1413	1413	1413	1413	1413	1413	1428
PT9	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.5
PTO	10.4	10.6	10.7	10.7	10.8	10.9	10.9	11.4
TT9	2010	2010	2010	2010	2010	2010	2010	2009
TTO	1550	3000	2750	2500	2250	2000	1680	1035
WAS/WAP	0.0370	0.0356	0.0345	0.0334	0.0323	0.0311	0.0285	0.0249
VENG	1980	1980	1980	1980	1980	1980	1980	1980
VDUCT	2614	2498	2308	2204	2093	1977	1815	1435
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	7.57	7.66	7.62	6.78	6.54	6.08	5.48	5.45

APR 24, 1964

ALT	75000	WASIZE	640	PT2/PT2P	0.866	WBL3	0.
MO	2.70	FAM	0.5	PT2	10.1	WBL4	3.00
VA KTS	1554	TAM	395	TT2	966	HPEXT	0.

MAXTHR	MAX D/H							MIN D/H NOT LIT
FNT	13245	11690	10086	9064	8012	6918	5783	2724
FGT	29055	26960	25856	24835	23782	22689	21553	14495
WAT	193	193	193	193	193	193	193	193
WFT	26537	20186	17641	15347	13205	11160	9216	4737
TSFC	1.998	1.820	1.743	1.693	1.648	1.613	1.594	1.739
BPR	1.89	1.89	1.89	1.89	1.85	1.89	1.84	1.87
WAT2	382	357	382	382	382	382	382	382
N1	5130	5130	5130	5130	5130	5130	5130	5183
N2	8087	8087	8087	8087	8087	8087	8087	8129
PT3D	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.4
PT4	40.7	40.7	40.7	40.7	40.7	40.7	40.7	42.6
TT3D	1107	1107	1107	1107	1107	1107	1107	1115
TT4	1480	1480	1480	1480	1480	1480	1480	1496
PT9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.5
PTO	13.6	13.8	13.9	13.9	14.0	14.0	14.1	14.7
TT9	2009	2009	2009	2009	2009	2009	2009	2007
TTO	3560	3000	2750	2500	2250	2000	1752	1224
WAS/WAP	0.0354	0.0332	0.0321	0.0311	0.0300	0.0288	0.0276	0.0243
VENG	1980	1980	1980	1980	1980	1980	1980	1980
VDUCT	2618	2498	2308	2204	2093	1977	1956	1498
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	7.93	7.11	6.72	6.33	5.93	5.53	5.11	5.76

OCT 4, 1966

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS

ALT	55000	WASIZE	640	PT2/PT2P	0.994	WBL3	0.
MO	2.20	P&H	1.3	PT2	12.9	WBL4	3.00
VA KTS	1242	T&M	390	TT2	767	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	25444	22468	20967	19218	17570	15748	12588	7288
FGT	64759	65283	63662	62013	60319	58563	56382	50082
WAT	344	344	344	344	344	344	344	344
WFT	50543	43686	38050	30467	27083	23457	17784	10003
TSFC	1.747	1.737	1.690	1.606	1.546	1.490	1.413	1.373
BPR	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.76
WAT2	478	478	478	478	478	478	478	478
N1	5363	5363	5363	5363	5363	5363	5363	5404
N2	8106	8106	8106	8106	8106	8106	8106	8166
PT3D	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.9
PT4	76.5	76.5	76.5	76.5	76.5	76.5	76.5	79.3
TT3D	920	920	920	920	920	920	920	929
TT4	1321	1321	1321	1321	1321	1321	1321	1337
PT9	13.4	13.4	13.4	13.4	13.4	13.4	13.4	14.3
PTD	19.3	19.6	19.8	20.0	20.1	20.3	20.5	21.7
TT9	2000	2000	2000	2000	2000	2000	2000	1999
TTD	3567	3300	2750	2500	2250	2000	1682	628
WAS/WAP	0.0348	0.0371	0.0389	0.0368	0.0338	0.0323	0.0303	0.0262
VENG	1976	1976	1976	1976	1976	1976	1976	1975
VDUCT	2618	2408	2308	2203	2093	1977	1764	1380
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.90	8.75	8.24	7.79	7.23	6.72	5.83	4.05

OCT 4, 1964

ALT	55000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	P&H	1.3	PT2	19.8	WBL4	3.00
VA KTS	1434	T&M	390	TT2	875	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	32900	27910	25666	23368	21006	18548	15204	8147
FGT	66522	61611	59388	57075	54728	52269	48926	41844
WAT	448	448	448	448	448	448	448	448
WFT	63569	49061	43244	37770	32806	28068	22270	13176
TSFC	1.937	1.758	1.685	1.616	1.562	1.513	1.465	1.471
BPR	1.86	1.86	1.86	1.86	1.84	1.86	1.86	1.82
WAT2	432	432	432	432	432	432	432	432
N1	5363	5363	5363	5363	5363	5363	5363	5398
N2	8116	8116	8116	8116	8116	8116	8116	8180
PT3D	31.8	31.8	31.8	31.8	31.8	31.8	31.8	32.7
PT4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	102.6
TT3D	1025	1025	1025	1025	1025	1025	1025	1033
TT4	1429	1423	1423	1423	1423	1423	1423	1438
PT9	17.6	17.6	17.6	17.6	17.6	17.6	17.6	18.1
PTD	28.2	28.7	28.9	29.1	29.2	29.4	29.6	31.0
TT9	1997	1997	1997	1997	1997	1997	1997	1998
TTD	3560	3000	2750	2500	2250	2000	1677	1033
WAS/WAP	0.0371	0.0348	0.0337	0.0326	0.0314	0.0302	0.0286	0.0251
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2618	2408	2308	2204	2093	1977	1815	1434
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.69	7.98	7.66	7.44	6.99	6.59	5.99	5.96

OCT 4, 1964

ALT	55000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.
MO	2.70	P&H	1.3	PT2	24.3	WBL4	3.00
VA KTS	1548	T&M	390	TT2	954	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	37454	31457	24040	26723	23122	20307	17144	8675
FGT	71111	70044	72297	69480	66575	63564	60401	51931
WAT	533	533	533	533	533	533	533	533
WFT	73364	55929	48461	42664	36762	31150	25757	13423
TSFC	1.938	1.758	1.685	1.626	1.576	1.534	1.502	1.547
BPR	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85
WAT2	404	404	404	404	404	404	404	404
N1	5328	5328	5328	5328	5328	5328	5329	5370
N2	8200	8200	8200	8200	8200	8200	8200	8237
PT3D	40.6	40.6	40.6	40.6	40.6	40.6	40.6	41.6
PT4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	121.8
TT3D	1104	1104	1104	1104	1104	1104	1104	1112
TT4	1497	1497	1497	1497	1497	1497	1497	1512
PT9	20.8	20.8	20.8	20.8	20.8	20.8	20.8	21.6
PTD	36.4	37.1	37.3	37.5	37.7	37.8	38.0	39.4
TT9	1995	1995	1995	1995	1995	1995	1995	1994
TTD	3560	3000	2750	2500	2250	2000	1749	1112
WAS/WAP	0.0355	0.0333	0.0323	0.0312	0.0301	0.0289	0.0277	0.0244
VENG	1974	1974	1974	1974	1974	1974	1974	1973
VDUCT	2618	2408	2308	2204	2093	1977	1852	1486
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.15	7.24	6.34	6.44	6.04	5.63	5.20	3.83

OCT 4, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.
MO	2.20	P&H	0.8	PT2	8.0	WBL4	3.00
VA KTS	1242	T&M	390	TT2	767	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	15915	13651	12659	11639	10582	9480	7461	4168
FGT	29950	27784	26744	25771	24717	23615	21546	18103
WAT	214	214	214	214	214	214	214	214
WFT	31997	24611	21837	19201	16819	14535	10879	5998
TSFC	1.998	1.804	1.729	1.650	1.589	1.533	1.458	1.439
BPR	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.81
WAT2	478	478	478	478	478	478	478	478
N1	5321	5321	5321	5321	5321	5321	5321	5361
N2	7991	7991	7991	7991	7991	7991	7991	8048
PT3D	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.6
PT4	45.3	45.3	45.3	45.3	45.3	45.3	45.3	47.4
TT3D	908	908	908	908	908	908	908	918
TT4	1309	1309	1309	1309	1309	1309	1309	1325
PT9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.5
PTD	11.1	11.3	11.5	11.6	11.7	11.8	11.9	12.6
TT9	2006	2006	2006	2006	2006	2006	2006	2005
TTD	3560	3000	2750	2500	2250	2000	1572	918
WAS/WAP	0.0397	0.0372	0.0360	0.0348	0.0336	0.0323	0.0300	0.0261
VENG	1979	1979	1979	1979	1979	1979	1979	1978
VDUCT	2618	2408	2308	2203	2093	1977	1758	1353
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.83	9.94	8.97	8.40	7.85	7.28	6.29	4.30

OCT 4, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	P&H	0.8	PT2	12.3	WBL4	3.00
VA KTS	1434	T&M	390	TT2	875	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	20134	17095	15700	14271	12801	11270	9134	4709
FGT	41065	38006	36611	35181	33711	32180	30049	25620
WAT	278	278	278	278	278	278	278	278
WFT	39623	30949	24906	23478	20370	17400	13649	7228
TSFC	1.968	1.787	1.715	1.664	1.591	1.544	1.498	1.535
BPR	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.88
WAT2_	432	432	432	432	432	432	432	432
N1	5318	5318	5318	5318	5318	5318	5318	5354
N2	8052	8052	8052	8052	8052	8052	8052	8096
PT3D	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.7
PT4	59.1	59.1	59.1	59.1	59.1	59.1	59.1	61.6
_TT3D	1017	1017	1017	1017	1017	1017	1017	1025
TT4	1413	1413	1413	1413	1413	1413	1413	1428
PT9	10.6	10.6	10.6	10.6	10.6	10.6	10.6	11.0
PTD	16.8	17.1	17.2	17.3	17.4	17.5	17.7	18.6
TT9	2002	2002	2002	2002	2002	2002	2002	2002
_TTD	3560	3000	2750	2500	2250	2000	1670	1025
WAS/WAP	0.0372	0.0348	0.0338	0.0326	0.0315	0.0302	0.0286	0.0250
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2618	2408	2308	2203	2093	1977	1811	1428
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.36	8.28	7.81	7.34	6.87	6.39	5.74	4.11

OCT 4, 1964

ALT	65000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.
MO	2.70	P&H	0.8	PT2	16.3	WBL4	3.00
VA KTS	1548	T&M	390	TT2	954	HPEXT	0.

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	23308	19543	17821	16066	14259	12380	10355	5063
FGT	50131	46367	44644	42889	41062	39203	37178	31886
WAT	330	330	330	330	330	330	330	330
WFT	45748	34828	30460	26520	22839	19325	15865	8350
TSFC	1.963	1.782	1.709	1.651	1.602	1.561	1.532	1.610
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.89
WAT2	404	404	404	404	404	404	404	404
N1	5294	5294	5294	5294	5294	5294	5294	5336
N2	8148	8148	8148	8148	8148	8148	8148	8184
PT3D	24.6	24.6	24.6	24.6	24.6	24.6	24.6	25.1
PT4	70.7	70.7	70.7	70.7	70.7	70.7	70.7	73.6
_TT3D	1097	1097	1097	1097	1097	1097	1097	1104
TT4	1488	1488	1488	1488	1488	1488	1488	1503
PT9	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.0
PTD	21.9	22.3	22.4	22.5	22.6	22.8	22.9	23.8
TT9	2001	2001	2001	2001	2001	2001	2001	2000
TTD	3560	3000	2750	2500	2250	2000	1743	1105
WAS/WAP	0.0356	0.0334	0.0323	0.0312	0.0301	0.0290	0.0277	0.0244
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2618	2408	2308	2204	2093	1977	1849	1481
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	8.51	7.55	7.13	6.71	6.29	5.86	5.39	3.96

OCT 4, 1964

IMPORTANT - THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	35000	WASIZE	640	PT2/PT2P	0.896	WBL3	0.
MO	2.70	PAM	0.5	PT2	10.1	WBL4	3.00
VA KTS	1558	TAM	395	TT2	966	WPERT	0.

MAXTHR	MAX DZH					MIN DZH NOT LIT	
FNT	16097	11759	10682	9589	8462	7290	6026	2725
FGT	107.7	96449	77372	26278	25152	23980	22716	19415
WAT	204	204	204	204	204	204	204	204
WFT	28431	21566	18817	16355	14026	11815	9638	6789
TSFC	2.017	1.836	1.762	1.706	1.657	1.621	1.599	1.757
BPR	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99
WAT2	404	404	404	404	404	404	404	404
N1	5246	5246	5246	5246	5246	5246	5246	5295
N2	8098	8098	8098	8098	8098	8098	8098	8129
PT3D	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.9
PT4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	43.1
TT3D	1097	1097	1097	1097	1097	1097	1097	1104
TT4	1486	1484	1486	1488	1486	1486	1486	1502
PT9	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.7
TT9	2006	2006	2006	2006	2006	2006	2006	2005
WAS/WAP	0.0355	0.0333	0.0322	0.0311	0.0300	0.0288	0.0275	0.0241
VENG	1979	1979	1979	1979	1979	1979	1979	1979
VDUCT	2618	2408	2308	2206	2093	1977	1848	1481
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.18	8.13	7.67	7.21	6.75	6.28	5.73	4.23

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS DOD DIR 5200.10

ALT	55000	MASIZE	.660	PT2/PT2P	0.904	WBL3	0.	
MU	2.70	PAM	1.3	PT2	12.9	WBL4	3.00	
VA KTS	1262	TAM	390	TT2	767	HPEXT	0.	
MXRTHR	MAX D/H					MIN D/H NOT EIT		
FNT	25677	22253	20698	18875	17214	15685	12411	7277
FGT	47453	44191	42324	41213	39593	37822	34768	29614
WAT	337	337	337	337	337	337	337	337
WFT	43213	36552	34244	32133	29501	27481	23523	19470
TSFC	1.335	1.269	1.271	1.255	1.239	1.246	1.210	1.375
BPR	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.77
MAT2	468	468	468	468	468	468	468	468
N1	5328	5328	5328	5328	5328	5328	5328	5376
N2	8107	8107	8107	8107	8107	8107	8107	8166
PT30	22.5	22.5	22.5	22.5	22.5	22.5	22.5	23.3
PT4	76.1	76.1	76.1	76.1	76.1	76.1	76.1	79.3
TT30	924	924	924	924	924	924	924	973
TT4	1317	1317	1315	1313	1315	1313	1319	1335
PT9	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.2
PTD	21.8	21.2	20.6	20.5	20.7	20.8	21.0	22.1
TT9	2001	2001	2001	2001	2001	2001	2001	1998
TTD	2960	2960	2750	2900	2750	2900	2750	333
WAS/WAP	0.0349	0.0321	0.0359	0.0369	0.0336	0.0373	0.0331	0.0263
VENG	1976	1976	1976	1976	1976	1976	1976	1975
VDUCT	2611	2408	2304	2203	2093	1977	1766	1366
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.34	8.27	7.32	6.65	6.57	5.94	5.46	3.86

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ALT	55000	MASIZE	.660	PT2/PT2P	0.970	WBL3	0.	
MU	2.70	PAM	1.3	PT2	19.8	WBL4	3.00	
VA KTS	1414	TAM	390	TT2	875	HPEXT	0.	
MXRTHR	MAX D/H					MIN D/H NOT EIT		
FNT	22953	20553	23031	21479	19366	17165	14363	9160
FGT	43027	39527	36565	32652	30139	28133	25122	19116
WAT	412	412	412	412	412	412	412	412
WFT	37373	34289	31496	28315	25435	23752	20054	15902
TSFC	1.336	1.283	1.257	1.299	1.246	1.209	1.257	1.395
BPR	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.62
MAT2	397	397	397	397	397	397	397	397
N1	5265	5265	5265	5265	5265	5265	5265	5327
N2	8111	8111	8111	8111	8111	8111	8111	8175
PT30	33.6	33.6	33.6	33.6	33.6	33.6	33.6	34.6
PT4	97.1	97.1	97.1	97.1	97.1	97.1	97.1	101.7
TT30	1044	1044	1044	1044	1044	1044	1044	1095
TT4	1417	1417	1417	1417	1417	1417	1417	1435
PT9	17.9	17.9	17.3	17.3	17.3	17.3	17.3	18.1
PTD	30.3	31.3	31.4	31.5	31.7	31.8	31.9	33.3
TT9	1999	1999	1999	1999	1999	1999	1999	1997
TTD	3560	3600	2750	2900	2750	2900	1645	1655
WAS/WAP	0.0369	0.0346	0.0395	0.0425	0.0375	0.0315	0.0302	0.0288
VENG	1976	1976	1976	1976	1976	1976	1976	1975
VDUCT	2619	2409	2304	2203	2093	1977	1766	1366
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.16	6.39	5.64	5.69	5.35	4.98	4.52	3.26

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ALT	55000	MASIZE	.660	PT2/PT2P	0.866	WBL3	0.	
MU	2.70	PAM	1.3	PT2	9.6	WBL4	3.00	
VA KTS	1568	TAM	390	TT2	956	HPEXT	0.	
MXRTHR	MAX D/H					MIN D/H NOT EIT		
FNT	32560	27686	25140	22816	20629	17922	15425	8572
FGT	70632	63378	60572	60724	58117	55814	54518	46666
WAT	466	466	466	466	466	466	466	466
WFT	41433	37660	34756	32602	31406	29223	27362	19861
TSFC	1.496	1.727	1.658	1.653	1.657	1.619	1.646	1.926
BPR	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.51
MAT2	554	554	554	554	554	554	554	554
N1	5263	5263	5263	5263	5263	5263	5263	5303
N2	8189	8189	8189	8189	8189	8189	8189	8207
PT30	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.7
PT4	115.9	115.9	115.9	115.9	115.9	115.9	115.9	119.7
TT30	1137	1137	1137	1137	1137	1137	1137	1144
TT4	1492	1492	1492	1492	1492	1492	1492	1505
PT9	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.2
PTD	41.5	41.5	42.1	42.2	42.3	42.4	42.4	43.6
TT9	1937	1937	1937	1937	1937	1937	1937	1938
TTD	3560	3600	2750	2900	2750	2900	1760	1784
WAS/WAP	0.0351	0.0333	0.0321	0.0311	0.0300	0.0290	0.0280	0.0249
VENG	1976	1976	1976	1976	1976	1976	1976	1966
VDUCT	2618	2408	2304	2204	2094	1977	1766	1507
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	5.47	5.25	4.98	4.70	4.61	4.12	3.85	2.88

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ALT	55000	MASIZE	.660	PT2/PT2P	0.904	WBL3	0.	
MU	2.70	PAM	0.8	PT2	8.0	WBL4	3.00	
VA KTS	1562	TAM	390	TT2	767	HPEXT	0.	
MXRTHR	MAX D/H					MIN D/H NOT EIT		
FNT	15966	13621	12667	11445	10412	9333	7378	4161
FGT	29397	27272	26298	25296	24263	23184	21222	19312
WAT	209	209	209	209	209	209	209	209
WFT	20422	24451	21345	19773	18698	16236	10714	9471
TSFC	1.943	1.792	1.716	1.646	1.561	1.525	1.452	1.635
BPR	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.79
MAT2	468	468	468	468	468	468	468	468
N1	5282	5282	5282	5282	5282	5282	5282	5323
N2	7491	7491	7491	7491	7491	7491	7491	7564
PT30	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.8
PT4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	47.1
TT30	913	913	913	913	913	913	913	922
TT4	1307	1307	1307	1307	1307	1307	1307	1322
PT9	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.5
PTD	11.5	11.4	11.3	12.0	12.1	12.2	12.3	13.0
TT9	2006	2006	2006	2006	2006	2006	2006	2006
TTD	3560	3600	2750	2900	2750	2900	1576	422
WAS/WAP	0.0396	0.0372	0.0360	0.0344	0.0336	0.0323	0.0320	0.0261
VENG	1974	1974	1974	1976	1974	1974	1974	1978
VDUCT	2618	2408	2304	2204	2093	1977	1760	1356
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	10.14	9.25	8.42	7.96	7.38	6.86	5.44	4.09

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ALT	65000	MASIZE	.660	PT2/PT2P	0.870	WBL3	0.	
MU	2.50	PAM	0.8	PT2	12.3	WBL4	3.00	
VA KTS	1434	TAM	390	TT2	875	HPEXT	0.	
MXRTHR	MAX D/H					MIN D/H NOT EIT		
FNT	18421	15672	14613	13124	11902	10626	8609	4859
FGT	37628	34879	33620	32131	31008	29632	27815	23965
WAT	255	255	255	255	255	255	255	255
WFT	25679	27631	24319	21357	19061	15968	12833	7165
TSFC	1.937	1.763	1.693	1.627	1.576	1.532	1.691	1.521
BPR	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.69
MAT2	397	397	397	397	397	397	397	397
N1	5177	5177	5177	5177	5177	5177	5177	5242
N2	8042	8042	8042	8042	8042	8042	8042	8092
PT30	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.7
PT4	57.9	57.9	57.9	57.9	57.9	57.9	57.9	60.5
TT30	1035	1035	1035	1035	1035	1035	1035	1044
TT4	1405	1405	1405	1405	1405	1405	1405	1422
PT9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.8
PTD	18.4	18.6	18.7	18.8	18.9	19.0	19.1	19.9
TT9	2005	2005	2005	2005	2005	2005	2005	2004
TTD	3560	3000	2750	2900	2252	2000	1684	1044
WAS/WAP	0.0370	0.0347	0.0334	0.0326	0.0314	0.0303	0.0287	0.0253
VENG	1978	1978	1978	1978	1978	1978	1978	1979
VDUCT	2618	2408	2304	2204	2093	1977	1820	1441
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.47	6.74	6.37	6.00	5.63	5.24	4.74	3.42

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ALT	65000	MASIZE	.660	PT2/PT2P	0.866	WBL3	0.	
MU	2.70	PAM	0.8	PT2	16.3	WBL4	3.00	
VA KTS	1568	TAM	390	TT2	956	HPEXT	0.	
MXRTHR	MAX D/H					MIN D/H NOT EIT		
FNT	20076	16909	15465	13936	12685	10516	7414	5103
FGT	43571	40604	38941	37691	35982	34613	2915	28600
WAT	289	289	289	289	289	289	289	289
WFT	38546	29627	26039	22805	19778	16896	14358	8068
TSFC	1.927	1.752	1.684	1.629	1.584	1.568	1.526	1.581
BPR	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.57
MAT2	554	554	554	554	554	554	554	554
N1	5160	5160	5160	5160	5160	5160	5160	5235
N2	8137	8137	8137	8137	8137	8137	8137	8171
PT30	26.5	26.5	26.5	26.5	26.5	26.5	26.5	27.2
PT4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	72.6
TT30	1128	1128	1128	1128	1128	1128	1128	1137
TT4	1481	1481	1481	1481	1481	1481	1481	1498
PT9	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.9
PTD	24.9	25.1	25.2	25.3	25.3	25.4	25.5	26.4
TT9	2003	2003	2003	2003	2003	2003	2003	2002
TTD	3560	3000	2750	2500	2250	2000	1771	1137
WAS/WAP	0.0352	0.0331	0.0321	0.0311	0.0301	0.0290	0.0279	0.0243
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2618	2408	2304	2204	2094	1977	1866	1503
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	6.15	5.50	5.21	4.92	4.62	4.31	4.02	2.97

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

ALT	[illegible]	WASIZE	640	PT2/PT2P	[illegible]	WBL3	[illegible]	
MO	[illegible]	PAM	[illegible]	PT2	[illegible]	WBL4	2.00	
VA KTS	[illegible]	TAM	[illegible]	TT2	[illegible]	HPEXT	0.	
MAXTHR	MAX O/H					MIN O/H NOT LIT		
FNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FGT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WAT	[illegible]	129	129	129	129	129	129	129
WFT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TSFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BPR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WAT2	[illegible]	468	468	468	468	468	468	468
N1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
N2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PT3D	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.1
PT4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TT3D	910	910	910	910	910	910	910	919
TT4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PT9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PT0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TT9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TT0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WAS/WAP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VENG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VDUCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AJCDE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AJCDD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

APR 24, 1964

ALT	[illegible]	WASIZE	[illegible]	PT2/PT2P	[illegible]	WBL3	[illegible]	
MO	[illegible]	PAM	[illegible]	PT2	[illegible]	WBL4	[illegible]	
VA KTS	[illegible]	TAM	[illegible]	TT2	[illegible]	HPEXT	[illegible]	
MAXTHR	MAX O/H					MIN O/H NOT LIT		
FNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FGT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WAT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WFT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TSFC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BPR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WAT2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
N1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
N2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PT3D	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PT4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TT3D	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TT4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PT9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PT0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TT9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TT0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WAS/WAP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VENG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VDUCT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AJCDE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AJCDD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

APR 24, 1964

ALT	75000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.	
MO	2.70	PAM	0.5	PT2	10.1	WBL4	3.00	
VA KTS	1558	TAM	395	TT2	966	HPEXT	0.	
MAXTHR	MAX O/H					MIN O/H NOT LIT		
FNT	12190	10200	9291	8366	7415	5427	5464	2739
FGT	26810	24820	23911	22986	22035	21067	20084	17359
WAT	179	179	179	179	179	179	179	179
WFT	24102	19416	16133	14084	12166	10336	8646	4706
TSFC	1.977	1.806	1.737	1.683	1.641	1.608	1.592	1.718
BPR	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.68
WAT2	354	354	354	354	354	354	354	354
N1	5043	5043	5043	5043	5043	5043	5043	5120
N2	8076	8076	8076	8076	8076	8076	8076	8113
PT3D	15.7	15.7	15.7	15.7	15.7	15.7	15.7	16.1
PT4	40.2	40.2	40.2	40.2	40.2	40.2	40.2	42.0
TT3D	1124	1124	1124	1124	1124	1124	1124	1133
TT4	1475	1475	1475	1475	1475	1475	1475	1492
PT9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.5
PT0	14.6	14.7	14.8	14.8	14.9	14.9	14.9	15.5
TT9	2011	2011	2011	2011	2011	2011	2011	2009
TT0	3560	3000	2750	2500	2250	2000	1767	1133
WAS/WAP	0.0352	0.0310	0.0320	0.0310	0.0299	0.0288	0.0277	0.0246
VENG	1981	1981	1981	1981	1981	1981	1981	1980
VDUCT	2618	2404	2303	2204	2094	1977	1861	1500
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	6.58	5.97	5.65	[illegible]	5.00	4.66	4.34	3.20

OCT 4, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C. SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

ALT	55000	WASIZE		640	PT2/PT2P	0.870	WBL3	0.
MN	2.52	PAM		1.3	PT2	12.3	WBL4	3.00
VA KTS	1434	TAM		390	TT2	875	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	17896	15965	14639	13280	11883	10429	8391	4167
FGT	88749	89908	86581	83222	81826	80371	78333	74109
WAT	265	265	265	265	265	265	265	265
WFT	57275	28664	25207	21754	19004	16185	12540	6434
TSFC	1.977	1.795	1.722	1.653	1.595	1.552	1.506	1.559
BPR	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.85
WAT2	412	412	412	412	412	412	412	412
N1	5171	5171	5171	5171	5171	5171	5171	5211
N2	7935	7935	7935	7935	7935	7935	7935	7971
PT30	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.9
PT4	55.9	55.9	55.9	55.9	55.9	55.9	55.9	58.1
TT30	1015	1015	1015	1015	1015	1015	1015	1022
TT4	1391	1391	1391	1391	1391	1391	1391	1406
PT9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	10.3
PTO	16.8	17.1	17.2	17.4	17.6	17.5	17.7	18.5
TT9	1925	1925	1925	1925	1925	1925	1925	1924
TTO	3960	3000	2750	2500	2250	2000	1665	1022
WAS/WAP	0.0370	0.0346	0.0336	0.0324	0.0312	0.0300	0.0283	0.0267
VENG	1940	1940	1940	1940	1940	1940	1940	1939
VDUCT	2418	2408	2358	2201	2093	1977	1810	1426
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	7.99	7.84	7.60	6.96	6.42	6.07	5.66	5.92

OCT 4, 1966

ALT	55000	WASIZE		640	PT2/PT2P	0.870	WBL3	0.
MN	2.52	PAM		1.3	PT2	12.3	WBL4	3.00
VA KTS	1434	TAM		390	TT2	875	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	18518	16390	14919	13336	11944	10460	8419	4225
FGT	92858	93210	90379	87496	85894	84370	82326	77985
WAT	428	428	428	428	428	428	428	428
WFT	59746	56003	40689	35202	30584	26288	20553	10756
TSFC	1.966	1.766	1.693	1.626	1.569	1.520	1.472	1.468
BPR	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.80
WAT2	612	612	612	612	612	612	612	612
N1	5208	5208	5208	5208	5208	5208	5208	5250
N2	7904	7904	7904	7904	7904	7904	7904	7940
PT30	31.5	31.5	31.5	31.5	31.5	31.5	31.5	32.3
PT4	93.3	93.3	93.3	93.3	93.3	93.3	93.3	97.0
TT30	1023	1023	1023	1023	1023	1023	1023	1031
TT4	1401	1401	1401	1401	1401	1401	1401	1416
PT9	16.6	16.6	16.6	16.6	16.6	16.6	16.6	17.2
PTO	29.1	28.7	29.0	29.2	29.4	29.3	29.5	30.8
TT9	1920	1920	1920	1920	1920	1920	1920	1919
TTO	3960	3000	2750	2500	2250	2000	1675	1031
WAS/WAP	0.0362	0.0346	0.0335	0.0324	0.0312	0.0300	0.0286	0.0268
VENG	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2418	2408	2358	2204	2093	1977	1814	1432
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.41	7.47	7.05	6.66	6.22	5.79	5.21	5.76

APR 24, 1964

ALT	55000	WASIZE		640	PT2/PT2P	0.870	WBL3	0.
MN	2.52	PAM		1.3	PT2	12.3	WBL4	3.00
VA KTS	1434	TAM		390	TT2	875	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	18518	16390	14919	13336	11944	10460	8419	4225
FGT	92858	93210	90379	87496	85894	84370	82326	77985
WAT	428	428	428	428	428	428	428	428
WFT	59746	56003	40689	35202	30584	26288	20553	10756
TSFC	1.966	1.766	1.693	1.626	1.569	1.520	1.472	1.468
BPR	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.80
WAT2	612	612	612	612	612	612	612	612
N1	5208	5208	5208	5208	5208	5208	5208	5250
N2	7904	7904	7904	7904	7904	7904	7904	7940
PT30	31.5	31.5	31.5	31.5	31.5	31.5	31.5	32.3
PT4	93.3	93.3	93.3	93.3	93.3	93.3	93.3	97.0
TT30	1023	1023	1023	1023	1023	1023	1023	1031
TT4	1401	1401	1401	1401	1401	1401	1401	1416
PT9	16.6	16.6	16.6	16.6	16.6	16.6	16.6	17.2
PTO	29.1	28.7	29.0	29.2	29.4	29.3	29.5	30.8
TT9	1920	1920	1920	1920	1920	1920	1920	1919
TTO	3960	3000	2750	2500	2250	2000	1675	1031
WAS/WAP	0.0362	0.0346	0.0335	0.0324	0.0312	0.0300	0.0286	0.0268
VENG	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2418	2408	2358	2204	2093	1977	1814	1432
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	8.41	7.47	7.05	6.66	6.22	5.79	5.21	5.76

OCT 4, 1966

ALT	55000	WASIZE		640	PT2/PT2P	0.846	WBL3	0.
MN	2.70	PAM		1.3	PT2	26.1	WBL4	3.00
VA KTS	1548	TAM		390	TT2	954	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	35962	29366	26769	24127	21605	18581	15623	7676
FGT	79916	70238	67643	65061	62283	59457	56497	48550
WAT	503	503	503	503	503	503	503	503
WFT	68123	51804	45276	33382	33880	28629	23591	12036
TSFC	1.944	1.784	1.691	1.632	1.585	1.561	1.510	1.568
BPR	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.79
WAT2	382	382	382	382	382	382	382	382
N1	5159	5159	5159	5159	5159	5159	5159	5209
N2	8092	8092	8092	8092	8092	8092	8092	8126
PT30	40.5	40.5	40.5	40.5	40.5	40.5	40.5	41.4
PT4	111.0	111.0	111.0	111.0	111.0	111.0	111.0	115.2
TT30	1105	1105	1105	1105	1105	1105	1105	1112
TT4	1474	1474	1474	1474	1474	1474	1474	1489
PT9	19.6	19.6	19.6	19.6	19.6	19.6	19.6	20.2
PTO	37.0	37.5	37.6	37.8	37.9	38.1	38.3	39.6
TT9	1918	1918	1918	1918	1918	1918	1914	1917
TTO	3560	3000	2750	2500	2250	2000	1750	1112
WAS/WAP	0.0353	0.0331	0.0321	0.0310	0.0299	0.0287	0.0275	0.0242
VENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2418	2408	2358	2204	2093	1977	1833	1486
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCOD	7.54	6.71	6.35	5.94	5.61	5.23	4.83	5.57

OCT 4, 1966

ALT	55000	WASIZE		640	PT2/PT2P	0.846	WBL3	0.
MN	2.70	PAM		1.3	PT2	26.1	WBL4	3.00
VA KTS	1548	TAM		390	TT2	954	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	35962	29366	26769	24127	21605	18581	15623	7676
FGT	79916	70238	67643	65061	62283	59457	56497	48550
WAT	503	503	503	503	503	503	503	503
WFT	68123	51804	45276	33382	33880	28629	23591	12036
TSFC	1.944	1.784	1.691	1.632	1.585	1.561	1.510	1.568
BPR	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.79
WAT2	382	382	382	382	382	382	382	382
N1	5159	5159	5159	5159	5159	5159	5159	5209
N2	8092	8092	8092	8092	8092	8092	8092	8126
PT30	40.5	40.5	40.5	40.5	40.5	40.5	40.5	41.4
PT4	111.0	111.0	111.0	111.0	111.0	111.0	111.0	115.2
TT30	1105	1105	1105	1105	1105	1105	1105	1112
TT4	1474	1474	1474	1474	1474	1474	1474	1489
PT9	19.6	19.6	19.6	19.6	19.6	19.6	19.6	20.2
PTO	37.0	37.5	37.6	37.8	37.9	38.1	38.3	39.6
TT9	1918	1918	1918	1918	1918	1918	1914	1917
TTO	3560	3000	2750	2500	2250	2000	1750	1112
WAS/WAP	0.0353	0.0331	0.0321	0.0310	0.0299	0.0287	0.0275	0.0242
VENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2418	2408	2358	2204	2093	1977	1833	1486
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCOD	7.54	6.71	6.35	5.94	5.61	5.23	4.83	5.57

OCT 4, 1966

ALT	65000	WASIZE		640	PT2/PT2P	0.904	WBL3	0.
MN	2.20	PAM		0.8	PT2	8.0	WBL4	3.00
VA KTS	1252	TAM		390	TT2	767	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	19522	13374	12168	11171	10321	9226	7182	3867
FGT	24561	23319	26909	25192	24163	23247	21203	17668
WAT	212	212	212	212	212	212	212	212
WFT	11231	24261	21462	18816	16428	14137	10417	5475
TSFC	2.013	1.814	1.732	1.693	1.671	1.632	1.590	1.621
BPR	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.44
WAT2	474	474	474	474	474	474	474	474
N1	9265	9265	9265	9265	9265	9265	9265	9333
N2	7868	7868	7868	7868	7868	7868	7868	7940
PT30	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.2
PT4	43.8	43.8	43.8	43.8	43.8	43.8	43.8	45.8
TT30	901	901	901	901	901	901	901	910
TT4	1297	1297	1297	1297	1297	1297	1297	1312
PT9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.2
PTO	13.6	13.9	14.0	14.1	14.3	14.4	14.5	15.1
TT9	1927	1927	1927	1927	1927	1927	1927	1929
TTO	1560	3000	2750	2500	2250	2000	1665	910
WAS/WAP	0.0346	0.0331	0.0319	0.0307	0.0296	0.0321	0.0297	0.0256
VENG	1940	1940	1940	1940	1940	1940	1940	1940
VDUCT	2418	2408	2358	2201	2093	1976	1755	1367
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	11.32	9.98	9.35	8.79	8.17	7.58	6.92	6.65

APR 24, 1964

ALT	65000	WASIZE		640	PT2/PT2P	0.846	WBL3	0.
MN	2.70	PAM		0.8	PT2	16.3	WBL4	3.00
VA KTS	1549	TAM		390	TT2	954	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	21592	19054	16436	14748	13092	11329	9430	4659
FGT	46918	43192	41781	40134	38433	36675	34776	29864
WAT	312	312	312	312	312	312	312	312
WFT	42518	32291	28202	24511	21084	17774	14434	7302
TSFC	1.949	1.787	1.716	1.697	1.685	1.589	1.541	1.638
BPR	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.44
WAT2	382	382	382	382	382	382	382	382
N1	5114	5114	5114	5114	5114	5114	5114	5163
N2	8042	8042	8042	8042	8042	8042	8042	8075
PT30	24.5	24.5	24.5	24.5	24.5	24.5	24.5	25.1
PT4	66.8	66.8	66.8	66.8	66.8	66.8	66.8	69.6
TT30	1037	1037	1037	1037	1037	1037	1037	1105
TT4	1464	1464	1464	1464	1464	1464	1464	1479
PT9	11.8	11.8	11.8	11.8	11.8	11.8	11.8	12.2
PTO	22.2	22.5	22.6	22.7	22.8	22.9	23.0	23.9
TT9	1924	1924	1924	1924	1924	1924	1924	1923
TTO	3560	3000	2750	2500	2250	2000	1743	1105
WAS/WAP	0.0356	0.0332	0.0321	0.0310	0.0299	0.0288	0.0275	0.0242
VENG	1939	1939	1939	1939	1939	1939	1939	1939
VDUCT	2418	2408	2358	2204	2093	1977	1849	1481
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	7.86	6.99	6.61	6.22	5.84	5.46	5.01	5.69

OCT 4, 1966

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	35010	WASIZE	440	PT2/PT2O	0.906	WBL1		0.
MN	2.70	P3M	0.5	PT2	9.1	WBL4		3.00
VA KTS	1498	TAM	395	TT2	771	HPRET		0.
CRUISE	MAX D/H						MIN D/H NOT LET	
FNT	6637	6223	5819	5434	5068	4721	4376	2032
FGT	17350	15865	14362	13017	11771	10626	12733	10722
WAT	131	131	131	131	131	131	131	131
WFT	14710	13726	12625	11733	10705	9760	9411	5182
TSFC	2.216	1.972	1.816	1.693	1.667	1.627	1.568	1.566
RPM	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
WAT2	476	476	476	476	476	476	476	476
N1	9215	9215	9215	9215	9215	9215	9215	9262
N2	7746	7746	7746	7746	7746	7746	7746	7736
PT10	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.5
PT4	25.2	25.2	25.2	25.2	25.2	25.2	25.2	26.6
TT10	837	837	897	897	897	897	897	904
TT4	1292	1292	1292	1292	1292	1292	1292	1308
PT2	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.7
PT0	5.7	5.9	6.0	5.1	5.2	5.2	6.4	6.9
TT2	1933	1933	1933	1933	1933	1933	1933	1952
TT0	1560	1000	2750	2500	2250	2000	1555	904
WA3/WAP	0.0375	0.0370	0.0358	0.0345	0.0333	0.0319	0.0304	0.0295
VENG	1961	1961	1961	1961	1961	1961	1961	1961
VDUCT	2617	2508	2308	2201	2093	1976	1769	1393
AJCDL	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	11.31	11.62	10.85	10.14	9.43	8.72	7.95	5.02

APR 26, 1964

ALT	35010	WASIZE	440	PT2/PT2O	0.846	WBL1		0.
MN	2.70	P3M	0.5	PT2	10.1	WBL4		3.00
VA KTS	1498	TAM	395	TT2	966	HPRET		0.
CRUISE	MAX D/H						MIN D/H NOT LET	
FNT	13078	10472	9862	8834	7775	6673	5446	2376
FGT	28963	26643	25633	24604	23569	22465	21256	18145
WAT	193	193	193	193	193	193	193	193
WFT	26456	20218	17663	15120	12950	10879	8835	6282
TSFC	2.023	1.861	1.769	1.712	1.666	1.630	1.611	1.803
RPM	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
WAT2	392	387	382	392	387	382	382	382
N1	5056	5056	5056	5056	5056	5056	5056	5167
N2	7993	7993	7993	7993	7993	7993	7993	8023
PT10	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.9
PT4	39.0	39.0	39.0	39.0	39.0	39.0	39.0	40.6
TT10	1097	1097	1097	1097	1097	1097	1097	1164
TT4	1462	1462	1462	1462	1462	1462	1462	1477
PT2	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.2
PT0	13.0	13.2	13.3	13.4	13.4	13.5	13.6	14.1
TT2	1930	1930	1930	1930	1930	1930	1930	1629
TT0	3540	3000	2750	2500	2250	2000	1742	1104
WA3/WAP	0.0353	0.0331	0.0320	0.0309	0.0298	0.0286	0.0273	0.0239
VENG	1962	1962	1962	1962	1962	1962	1962	1962
VDUCT	2618	2409	2308	2204	2093	1977	1849	1481
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.45	7.50	7.09	6.67	6.25	5.82	5.36	3.94

OCT 6, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	35000	WASIZE		A&C	PT2/PT2P	0.994	WBL3	0.
MO	2.20	PAM		1.3	PT2	12.9	WBL4	3.00
VA KTS	1262	TAM		390	TT2	767	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	25376	21483	20282	19431	16329	14150	11475	6510
FGT	44172	44628	43076	41425	39729	37544	34609	29304
WAT	346	346	346	346	346	346	346	346
WFT	50510	39252	36736	30477	26627	22984	17094	9070
TSFC	1.990	1.794	1.713	1.636	1.573	1.514	1.432	1.393
BPR	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.85
WAT2	478	478	478	478	478	478	478	478
N1	5306	5306	5306	5306	5306	5306	5306	5141
N2	7963	7963	7963	7963	7963	7963	7963	8015
PT30	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.7
PT4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	75.9
TT30	906	906	906	906	906	906	906	915
TT4	1393	1393	1393	1393	1393	1393	1393	1318
PT9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.5
PTD	17.8	18.2	18.4	18.6	18.8	18.9	19.2	20.4
TT9	1920	1920	1920	1920	1920	1920	1920	1920
TTD	3560	3000	2750	2500	2250	2000	1670	1[illegible]
WAS/WAP	0.0395	0.0373	0.0358	0.0346	0.0336	0.0321	0.0297	0.0257
VENG	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2618	2428	2308	2204	2093	1977	1[illegible]	1[illegible]
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.[illegible]	[illegible].61	9.02	8.46	7.89	7.33	6.32	4.34

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ALT	35000	WASIZE		A&C	PT2/PT2P	0.870	WBL3	0.
MO	2.20	PAM		1.3	PT2	12.8	WBL4	3.00
VA KTS	1434	TAM		390	TT2	875	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	32215	27312	25646	22752	20478	17506	14425	7228
FGT	45947	41033	38782	36676	34100	31428	28166	22950
WAT	448	448	448	448	448	448	448	448
WFT	63395	49073	42775	37231	32204	27397	21826	10434
TSFC	1.967	1.782	1.707	1.638	1.580	1.530	1.479	1.459
BPR	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.90
WAT2	432	432	432	432	432	432	432	432
N1	5293	5293	5293	5293	5293	5293	5293	5110
N2	7997	7997	7997	7997	7997	7997	7997	8040
PT30	30.5	30.5	30.5	30.5	30.5	30.5	30.5	31.4
PT4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	98.0
TT30	1013	1013	1013	1013	1013	1013	1013	1021
TT4	1405	1405	1405	1405	1405	1405	1405	1420
PT9	16.8	16.8	16.8	16.8	16.8	16.8	16.8	17.1
PTD	26.7	27.2	27.4	27.6	27.8	27.9	28.2	29.6
TT9	1919	1919	1919	1919	1919	1919	1919	1917
TTD	3560	3000	2750	2500	2250	2000	1666	1621
WAS/WAP	0.0373	0.0347	0.0336	0.0324	0.0314	0.0300	0.0283	0.0247
VENG	1937	1937	1937	1937	1937	1937	1937	1936
VDUCT	2618	2408	2308	2203	2093	1977	1[illegible]	1[illegible]
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.52	8.42	7.96	7.44	6.98	6.49	5.92	4.17

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ALT	35000	WASIZE		A&C	PT2/PT2P	0.846	WBL3	0.
MO	2.20	PAM		1.3	PT2	26.3	WBL4	3.00
VA KTS	1548	TAM		390	TT2	954	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	37259	31176	28399	25554	22634	19598	16276	7673
FGT	46635	44639	41646	40811	39809	37854	34533	30930
WAT	533	533	533	533	533	533	533	533
WFT	72905	55533	48380	42001	36041	30354	24672	12139
TSFC	1.959	1.781	1.704	1.644	1.592	1.549	1.516	1.582
BPR	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.92
WAT2	404	404	404	404	404	404	404	404
N1	5262	5262	5262	5262	5262	5262	5262	5304
N2	8097	8097	8097	8097	8097	8097	8097	8132
PT30	39.2	39.2	39.2	39.2	39.2	39.2	39.2	40.1
PT4	112.5	112.5	112.5	112.5	112.5	112.5	112.5	116.7
TT30	1093	1093	1093	1093	1093	1093	1093	1100
TT4	1479	1479	1479	1479	1479	1479	1479	1494
PT9	19.8	19.8	19.8	19.8	19.8	19.8	19.8	20.5
PTD	34.9	35.7	35.7	35.9	36.1	36.2	36.4	39.0
TT9	1916	1916	1916	1916	1916	1916	1916	1915
TTD	3560	3000	2750	2500	2250	2000	1739	1100
WAS/WAP	0.0355	0.0332	0.0322	0.0311	0.0299	0.0288	0.0275	0.0241
VENG	1936	1936	1936	1936	1936	1936	1936	1935
VDUCT	2618	2408	2308	2204	2093	1977	1847	1478
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.65	7.68	7.25	6.82	6.39	5.95	5.47	4.02

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ALT	65000	WASIZE		A&C	PT2/PT2P	0.904	WBL3	0.
MO	2.20	PAM		0.8	PT2	8.0	WBL4	3.00
VA KTS	1262	TAM		390	TT2	767	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	15617	13264	12276	11256	10202	9100	7019	3685
FGT	29852	27599	26611	25591	24537	23435	21956	17820
WAT	214	214	214	214	214	214	214	214
WFT	31550	24493	21650	18960	16563	14224	10611	5429
TSFC	2.048	1.847	1.764	1.689	1.622	1.563	1.484	1.473
BPR	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.92
WAT2	478	478	478	478	478	478	478	474
N1	5261	5261	5261	5261	5261	5261	5261	5304
N2	7835	7835	7835	7835	7835	7835	7835	7909
PT30	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.8
PT4	43.0	43.0	43.0	43.0	43.0	43.0	43.0	45.0
TT30	896	896	896	896	896	896	896	905
TT4	1291	1291	1291	1291	1291	1291	1291	1307
PT9	7.7	7.7	7.7	7.7	7.7	7.7	7.7	9.0
PTD	10.2	10.4	10.4	10.7	10.8	10.9	11.1	12.0
TT9	1727	1727	1727	1727	1727	1727	1727	1725
TTD	3560	3000	2750	2500	2250	2000	1580	905
WAS/WAP	0.0336	0.0371	0.0353	0.0367	0.0334	0.0321	0.0286	0.0256
VENG	1940	1940	1940	1940	1940	1940	1949	1939
VDUCT	2618	2408	2308	2293	2093	1976	1752	1343
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	12.91	10.54	9.88	9.24	8.61	7.98	6.34	4.63

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ALT	65000	WASIZE		A&C	PT2/PT2P	0.870	WBL3	0.
MO	2.53	PAM		0.8	PT2	12.3	WBL4	3.00
VA KTS	1434	TAM		390	TT2	875	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	19770	16725	15326	13821	12415	10876	8665	4170
FGT	40681	37636	36237	34802	33325	31787	29516	25081
WAT	278	278	278	278	278	278	278	278
WFT	39535	30313	26623	23151	20002	16992	13122	6554
TSFC	1.998	1.812	1.737	1.667	1.611	1.562	1.516	1.572
BPR	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96
WAT2	432	432	432	432	432	432	432	432
N1	5259	5259	5259	5259	5259	5259	5259	5300
N2	7941	7941	7941	7941	7941	7941	7941	7977
PT30	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.9
PT4	56.6	56.6	56.6	56.6	56.6	56.6	56.6	58.9
TT30	1006	1006	1006	1006	1006	1006	1006	1013
TT4	1396	1396	1396	1396	1396	1396	1396	1411
PT9	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.4
PTD	15.9	16.2	16.3	16.5	16.6	16.7	16.9	17.7
TT9	1923	1923	1923	1923	1923	1923	1923	1922
TTD	3560	3000	2750	2500	2250	2000	1660	1013
WAS/WAP	0.0371	0.0347	0.0336	0.0325	0.0313	0.0300	0.0283	0.0246
VENG	1939	1939	1939	1939	1939	1939	1939	1938
VDUCT	2618	2408	2308	2293	2093	1977	1806	1420
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.02	8.84	8.34	7.83	7.32	6.80	6.09	4.34

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ALT	65000	WASIZE		A&C	PT2/PT2P	0.846	WBL3	0.
MO	2.70	PAM		0.8	PT2	16.3	WBL4	3.00
VA KTS	1548	TAM		390	TT2	954	HPEXT	0.
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	22922	19152	17417	15693	13835	11943	9824	4457
FGT	49746	45976	44240	42476	40659	38767	36445	31280
WAT	330	330	330	330	330	330	330	330
WFT	45451	34406	30119	26129	22401	18842	15206	7179
TSFC	1.986	1.837	1.779	1.689	1.615	1.578	1.548	1.655
BPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
WAT2	404	404	404	404	404	404	404	404
N1	5223	5223	5223	5223	5223	5223	5223	5270
N2	8051	8051	8051	8051	8051	8051	8051	8084
PT30	23.7	23.7	23.7	23.7	23.7	23.7	23.7	24.3
PT4	67.8	67.8	67.8	67.8	67.8	67.8	67.8	70.4
TT30	1086	1086	1086	1086	1086	1086	1086	1093
TT4	1470	1470	1470	1470	1470	1470	1470	1488
PT9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.6
PTD	20.9	21.3	21.4	21.5	21.7	21.8	21.9	22.9
TT9	1922	1922	1922	1922	1922	1922	1922	1921
TTD	3560	3000	2750	2500	2250	2000	1733	1093
WAS/WAP	0.0355	0.0333	0.0322	0.0311	0.0300	0.0286	0.0274	0.0246
VENG	1938	1938	1938	1938	1938	1938	1938	1938
VDUCT	2618	2408	2308	2204	2093	1977	1846	1476
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.04	8.01	7.56	7.11	6.66	6.19	5.68	4.16

OCT 4, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C. SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	35000	WSIZE	640	PT2/PT2P	0.906	WBL1	0.	
MN	2.20	PAM	0.5	PT2	5.0	WBL4	2.00	
VA KTS	1270	TAM	595	TT2	770	WPEXT	0.	

CRUISE	MAX D/H					MIN D/H NOT LIT		
FNT	12754	7955	7348	6721	6072	5393	4674	3925
FGT	19069	16743	16163	15515	14866	14185	12470	10819
WAT	137	137	137	137	137	137	137	137
WFT	14777	13610	13029	11879	10328	8819	6152	4187
TSFC	2.1556	1.940	1.851	1.767	1.701	1.640	1.558	1.574
BPR	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.36
WAT2	478	478	478	478	478	478	478	478
N1	5230	5230	5230	5230	5230	5230	5230	5277
N2	7746	7746	7746	7746	7746	7746	7746	7737
PT30	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.4
PT4	25.3	25.3	25.3	25.3	25.3	25.3	25.3	26.4
TT30	895	895	895	895	895	895	895	903
TT4	1293	1293	1293	1293	1293	1293	1293	1309
PT9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7
PTD	5.6	5.8	5.9	6.0	6.0	6.1	6.2	6.8
TT9	1933	1931	1931	1933	1933	1933	1933	1932
TTD	3560	3000	2750	2500	2250	2000	1552	903
WAS/WAP	0.0345	0.0370	0.0358	0.0346	0.0333	0.0319	0.0294	0.0255
VENG	1963	1963	1963	1963	1963	1963	1963	1963
VDUCT	2617	2408	2308	2204	2093	1975	1747	1342
AJCDL	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	13.81	12.03	11.24	10.48	9.74	9.01	7.67	5.16

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ALT	35000	WSIZE	640	PT2/PT2P	0.877	WBL3	0.	
MN	2.50	PAM	0.5	PT2	5.0	WBL4	2.00	
VA KTS	1441	TAM	595	TT2	880	WPEXT	0.	

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	13352	10163	9226	8602	7983	7325	5156	2356
FGT	25362	21873	22136	21412	20643	19835	14166	15366
WAT	172	172	172	172	172	172	172	172
WFT	25569	19816	18691	16308	14324	12617	8118	3885
TSFC	2.340	1.851	1.776	1.703	1.668	1.603	1.455	1.644
BPR	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.06
WAT2	432	432	432	432	432	432	432	432
N1	5230	5230	5230	5230	5230	5230	5230	5277
N2	7898	7898	7898	7898	7898	7898	7898	7931
PT30	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.2
PT4	33.7	33.7	33.7	33.7	33.7	33.7	33.7	35.0
TT30	1009	1009	1009	1009	1009	1009	1009	1016
TT4	1400	1400	1400	1400	1400	1400	1400	1415
PT9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.2
PTD	9.2	9.5	9.6	9.6	9.7	9.8	9.9	10.5
TT9	1929	1929	1929	1929	1929	1929	1929	1928
TTD	3560	3000	2750	2500	2250	2000	1662	1016
WAS/WAP	0.0370	0.0346	0.0335	0.0323	0.0311	0.0299	0.0281	0.0244
VENG	1962	1962	1962	1962	1962	1962	1962	1961
VDUCT	2618	2408	2308	2203	2393	1977	1697	1422
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	13.81	12.52	11.95	11.40	10.85	7.29	5.50	4.63

APR 24, 1964

ALT	35000	WSIZE	640	PT2/PT2P	0.886	WBL3	0.	
MN	2.70	PAM	0.5	PT2	10.1	WBL4	3.00	
VA KTS	1559	TAM	595	TT2	986	WPEXT	0.	

CRUISE	MAX D/H					MIN D/H NOT LIT		
FNT	13658	11514	10437	9338	8206	7028	5712	7363
FGT	30548	27075	26125	26028	24896	23717	22401	17653
WAT	204	204	204	204	204	204	204	204
WFT	28263	21431	18613	16106	13744	11528	9252	4328
TSFC	2.099	1.861	1.783	1.725	1.677	1.640	1.620	1.832
BPR	2.98	2.08	2.08	2.08	2.08	2.08	2.08	2.07
WAT2	404	404	404	404	404	404	404	404
N1	5177	5177	5177	5177	5177	5177	5177	5223
N2	8005	8005	8005	8005	8005	8005	8005	8031
PT30	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.4
PT4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	41.3
TT30	1088	1088	1088	1088	1088	1088	1088	1096
TT4	1469	1469	1469	1469	1469	1469	1469	1483
PT9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.3
PTD	12.2	12.4	12.5	12.6	12.7	12.8	12.9	13.4
TT9	1927	1927	1927	1927	1927	1927	1927	1927
TTD	3560	3000	2750	2500	2250	2000	1734	1096
WAS/WAP	0.0354	0.0331	0.0321	0.0310	0.0298	0.0286	0.0273	0.0238
VENG	1961	1961	1961	1961	1961	1961	1961	1960
VDUCT	2618	2408	2308	2204	2093	1977	1944	1475
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.74	8.61	8.11	7.63	7.14	6.64	6.08	4.45

OCT 6, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	55000	WASIZE		A4C	PT2/PT2P	0.966	WBL3	0.
MN	2.00	PAM		1.1	PT2	12.9	WBL4	3.00
VA KTS	1262	TAM		510	TT2	367	WPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	24437	21510	19319	18321	16944	14913	11739	8304
FGT	43276	41855	42276	43058	38991	37250	34076	29841
WAT	337	337	337	337	337	337	337	337
WFT	63269	59325	57339	54795	49051	42469	36741	30032
TSFC	1.774	1.782	1.707	1.636	1.506	1.626	1.626	1.389
BPR	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.81
WAT2	468	468	468	468	468	468	468	468
N1	5265	5265	5265	5265	5265	5265	5265	5303
N2	7966	7966	7966	7966	7966	7966	7966	8018
PT30	21.4	21.4	21.4	21.4	21.4	21.4	21.4	22.1
PT4	72.3	72.3	72.3	72.3	72.3	72.3	72.3	74.4
TT30	910	910	910	910	910	910	910	919
TT4	1301	1301	1301	1301	1301	1301	1301	1316
PT9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	13.5
PTD	19.6	18.8	17.7	17.2	17.3	19.5	19.7	20.9
TT9	1921	1921	1921	1921	1921	1921	1921	1921
TTD	3360	3000	2750	2500	2250	2000	1671	919
WAS/WAP	0.0396	0.0375	0.0358	0.0344	0.0334	0.0321	0.0298	0.0258
VENG	1938	1938	1938	1938	1938	1938	1938	1937
VDUCT	2618	2608	2508	2204	2093	1977	1759	1353
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.23	9.03	8.30	7.97	7.65	6.92	5.99	4.13

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ALT	55000	WASIZE		A6C	PT2/PT2P	0.970	WBL3	0.
MN	2.53	PAM		1.1	PT2	19.8	WBL4	3.00
VA KTS	1434	TAM		590	TT2	475	WPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	29479	25840	23007	20325	16784	16565	13545	7226
FGT	50653	50314	49981	51455	44762	47519	44563	39154
WAT	412	412	412	412	412	412	412	412
WFT	56096	49364	38735	33216	29356	25095	19967	10708
TSFC	1.933	1.756	1.684	1.614	1.562	1.515	1.469	1.482
BPR	1.73	1.73	1.73	1.71	1.72	1.71	1.71	1.71
WAT2	397	397	397	397	397	397	397	397
N1	5150	5150	5150	5150	5150	5150	5150	5209
N2	7992	7992	7992	7992	7992	7992	7992	8038
PT30	32.2	32.2	32.2	32.2	32.2	32.2	32.2	33.1
PT4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	96.4
TT30	1031	1031	1031	1031	1031	1031	1031	1039
TT4	1398	1399	1398	1398	1398	1398	1398	1414
PT9	16.4	16.4	16.4	16.4	16.4	16.4	16.4	17.1
PTD	29.6	29.8	29.9	30.1	30.2	30.1	30.5	31.7
TT9	1921	1921	1921	1921	1921	1921	1921	1920
TTD	3360	3000	2750	2500	2250	2000	1683	1039
WAS/WAP	0.0368	0.0365	0.0336	0.0323	0.0312	0.0300	0.0286	0.0250
VENG	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2618	2608	2508	2204	2093	1977	1818	1458
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.67	6.83	6.65	6.08	5.76	5.31	4.80	3.46

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ALT	55000	WASIZE		A6C	PT2/PT2P	0.966	WBL3	0.
MN	2.73	PAM		1.1	PT2	26.1	WBL4	3.00
VA KTS	1548	TAM		590	TT2	454	WPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	32077	26958	24622	22266	19802	17266	16791	7749
FGT	69861	64850	62514	60138	57694	55156	52683	45641
WAT	466	466	466	466	466	466	466	466
WFT	61796	47027	41263	36017	31117	26446	22259	12012
TSFC	1.925	1.746	1.676	1.619	1.572	1.549	1.504	1.550
BPR	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.59
WAT2	354	354	354	354	354	354	354	354
N1	5123	5123	5123	5123	5123	5123	5123	5194
N2	8088	8088	8088	8088	8088	8088	8088	8122
PT30	42.4	42.4	42.4	42.4	42.4	42.4	42.4	43.3
PT4	110.5	110.5	110.5	110.5	110.5	110.5	110.5	114.9
TT30	1123	1123	1123	1123	1123	1123	1123	1131
TT4	1472	1472	1472	1472	1472	1472	1472	1488
PT9	19.5	19.5	19.5	19.5	19.4	19.5	19.5	20.2
PTD	39.7	40.1	40.2	40.3	40.4	40.5	40.6	42.0
TT9	1919	1919	1919	1915	1919	1919	1919	1918
TTD	3360	3000	2750	2500	2250	2000	1767	1131
WAS/WAP	0.0351	0.0329	0.0317	0.0304	0.0298	0.0287	0.0277	0.0245
VENG	1937	1937	1937	1937	1937	1937	1937	1936
VDUCT	2618	2608	2508	2204	2093	1977	1861	1459
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	6.25	5.59	5.29	4.99	4.69	4.38	4.07	3.02

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ALT	65000	WASIZE		A4C	PT2/PT2P	0.934	WBL3	0.
MN	2.20	PAM		0.9	PT2	9.0	WBL4	3.00
VA KTS	1242	TAM		390	TT2	367	WPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	15184	13066	12092	11089	10098	8676	6951	3686
FGT	29335	28915	29469	29960	29908	29825	30901	27937
WAT	209	209	209	209	209	209	209	209
WFT	30811	23918	21151	18546	16190	13930	10269	5603
TSFC	2.029	1.831	1.769	1.673	1.610	1.552	1.474	1.466
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.88
WAT2	468	468	468	468	468	468	468	468
N1	9223	9223	9223	9223	9222	9223	9223	9263
N2	7834	7834	7834	7834	7834	7834	7834	7909
PT30	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1
PT4	42.8	42.8	42.8	42.8	42.8	42.8	42.8	44.7
TT30	900	900	900	900	900	900	900	908
TT4	1289	1289	1289	1289	1289	1284	1289	1304
PT9	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.0
PTD	10.6	10.9	11.0	11.1	11.2	11.3	11.5	12.3
TT9	1927	1927	1927	1927	1927	1927	1927	1926
TTD	3360	3000	2750	2500	2250	2000	1763	909
WAS/WAP	0.0334	0.0311	0.0299	0.0287	0.0276	0.0264	0.0247	0.0257
VENG	1941	1941	1941	1941	1941	1941	1941	1940
VDUCT	2618	2608	2508	2204	2093	1976	1794	1346
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	11.19	9.84	9.24	8.66	8.04	7.49	6.65	4.40

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ALT	65000	WASIZE		A6C	PT2/PT2P	0.970	WBL3	0.
MN	2.90	PAM		0.4	PT2	12.1	WBL4	3.00
VA KTS	1436	TAM		390	TT2	475	WPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	16123	15356	14044	12786	11655	10067	8163	4156
FGT	37130	36663	37236	37396	30662	29274	27570	23366
WAT	255	255	255	255	255	255	255	255
WFT	35567	27615	24133	21065	18246	15571	12273	6455
TSFC	1.966	1.745	1.713	1.666	1.613	1.567	1.503	1.552
BPR	1.79	1.77	1.79	1.79	1.79	1.79	1.79	1.77
WAT2	397	397	397	397	397	397	397	397
N1	5101	5101	5101	5101	5101	5101	5101	5150
N2	7929	7929	7929	7929	7929	7929	7929	7969
PT30	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.9
PT4	55.3	55.3	55.3	55.3	55.3	55.3	55.3	57.6
TT30	1022	1022	1022	1022	1022	1022	1022	1039
TT4	1387	1387	1387	1387	1387	1387	1387	1403
PT9	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.2
PTD	17.5	17.8	17.9	18.0	18.1	18.1	18.2	18.0
TT9	1926	1926	1926	1926	1926	1926	1925	1923
TTD	3360	3000	2750	2500	2250	2000	1675	1030
WAS/WAP	0.0369	0.0346	0.0335	0.0324	0.0312	0.0300	0.0286	0.0249
VENG	1940	1940	1940	1940	1940	1940	1940	1940
VDUCT	2618	2608	2508	2204	2093	1977	1813	1432
AJCDE	5.21	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	8.97	7.17	6.74	6.38	5.98	5.57	4.02	3.62

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ALT	65000	WASIZE		A6C	PT2/PT2P	0.966	WBL3	0.
MN	2.70	PAM		0.8	PT2	16.3	WBL4	3.00
VA KTS	1548	TAM		390	TT2	454	WPEXT	0.

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	19790	16888	15126	13660	12110	10521	4916	4495
FGT	43287	40089	38623	37137	35901	34018	32613	27392
WAT	289	289	289	289	289	289	289	289
WFT	38529	29191	25740	22461	19366	16421	13703	7771
TSFC	1.946	1.772	1.702	1.645	1.599	1.561	1.537	1.617
BPR	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.65
WAT2	354	354	354	354	354	354	354	354
N1	5049	5049	5049	5049	5049	5049	5049	5121
N2	8037	8037	8037	8037	8037	8037	8037	8071
PT30	25.6	25.6	25.6	25.6	25.6	25.6	25.6	26.2
PT4	66.2	66.2	66.2	66.2	66.2	66.2	66.2	68.9
TT30	1114	1114	1114	1114	1114	1114	1114	1123
TT4	1461	1461	1461	1461	1461	1461	1461	1477
PT9	11.7	11.7	11.7	11.7	11.7	11.7	11.7	12.2
PTD	23.9	24.1	24.2	24.2	24.3	24.4	24.5	25.3
TT9	1925	1925	1925	1925	1924	1925	1925	1923
TTD	3360	3000	2750	2500	2250	2000	1758	1123
WAS/WAP	0.0352	0.0330	0.0320	0.0310	0.0299	0.0288	0.0276	0.0246
VENG	1940	1940	1940	1940	1940	1940	1940	1939
VDUCT	2618	2608	2508	2204	2094	1977	1857	1493
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	6.94	5.85	5.53	5.27	4.96	4.57	4.24	3.13

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DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

ALT	25000	WAS/ZF	.960	PT2/PT2P	0.806	WRL1	0.	
MN	2.20	PAM	0.5	PT2	960	WRL4	1.001	
VA KTS	1271	IAM	535	TT2	775	WPLST	0.	
CRUISE	MAX D/H						MIN D/H NOT LIT	
ENT	7151	7444	7269	6850	6310	5559	4677	2960
EGT	17741	17495	17087	17267	16927	16957	17010	16697
WAT	129	129	129	129	129	129	129	129
WFT	12276	12410	12160	11910	10320	8930	8692	3176
TSFC	0.7301	0.7845	0.7810	0.7731	0.7667	0.7609	0.7583	0.7556
RPM	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.02
WAT2	468	468	468	468	468	468	468	468
N1	5197	5197	5197	5197	5197	5197	5197	5261
N2	7765	7765	7765	7765	7765	7765	7765	7745
PT3D	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.6
PT4	25.1	25.1	25.1	25.1	25.1	25.1	25.1	26.3
TT3D	899	899	893	893	893	893	894	906
TT4	1291	1291	1291	1291	1291	1291	1291	1306
PT2	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.7
PTD	6.0	6.1	6.2	6.3	6.4	6.4	6.6	7.0
TT9	1933	1931	1933	1933	1931	1933	1933	1932
TTD	3560	3350	2750	2500	2250	2000	1760	906
WAS/WAP	0.0365	0.0370	0.0358	0.0365	0.0333	0.0319	0.0135	0.0253
VENG	1963	1963	1963	1963	1963	1963	1963	1963
VDUCT	2618	2614	2508	2703	2043	1976	1753	1396
AJCUE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDU	12.34	11.11	10.12	9.64	8.97	8.31	7.12	4.44

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ALT	25000	WAS/ZF	.960	PT2/PT2P	0.825	WRL1	0.	
MN	2.20	PAM	0.5	PT2	960	WRL4	1.001	
VA KTS	1261	IAM	535	TT2	775	WPLST	0.	
CRUISE	MAX D/H						MIN D/H NOT LIT	
ENT	11338	11162	10870	7793	7205	6330	5172	2911
EGT	21235	21112	20923	17401	16575	16038	16422	15912
WAT	198	198	198	198	198	198	198	198
WFT	22165	17823	16496	13818	13268	9966	7496	3021
TSFC	1.4731	1.4814	1.4765	1.4622	1.4624	1.4373	1.4134	1.4017
RPM	1.62	1.62	1.62	1.84	1.62	1.62	1.62	1.62
WAT2	547	547	547	547	547	547	547	547
N1	5376	5376	5376	5376	5376	5376	5376	5120
N2	7469	7469	7469	7469	7469	7469	7469	7219
PT3D	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.2
PT4	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.2
TT3D	1024	1024	1024	1024	1024	1024	1024	1031
TT4	1392	1392	1392	1392	1392	1392	1392	1407
PT2	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.1
PTD	10.3	10.5	10.6	10.6	10.7	10.8	10.8	10.5
TT9	1937	1937	1932	1932	1932	1932	1932	1931
TTD	3560	3300	2750	2500	2250	2000	1675	1031
WAS/WAP	0.0359	0.0365	0.0336	0.0321	0.0311	0.0299	0.0142	0.0265
VENG	1963	1963	1961	1963	1963	1961	1961	1962
VDUCT	2616	2608	2310	2206	2043	1977	1616	1432
AJCDL	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDU	9.61	7.66	7.21	6.74	6.35	5.92	5.32	5.09

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ALT	35000	WAS/ZF	.960	PT2/PT2P	0.846	WRL1	0.	
MN	2.20	PAM	0.5	PT2	1961	WRL4	1.00	
VA KTS	1258	IAM	489	TT2	986	WPLST	0.	
CRUISE	MAX D/H						MIN D/H NOT LIT	
ENT	12714	10207	9089	8155	7194	6195	5175	2387
EGT	26[illegible]	24627	23709	22775	21814	20815	19795	17607
WAT	179	179	179	179	179	179	179	179
WFT	24345	18267	15955	13968	11319	10060	8317	4243
TSFC	2.4091	1.4826	1.4755	1.4701	1.4657	1.4624	1.4607	1.4777
RPM	1.79	1.79	1.79	1.75	1.79	1.79	1.79	1.76
WAT2	356	356	356	356	356	356	356	356
N1	4961	4961	4963	4963	4963	4963	4963	5012
N2	7983	7983	7983	7983	7983	7983	7983	8014
PT3D	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.5
PT4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	40.1
TT3D	1112	1112	1112	1112	1112	1112	1112	1120
TT4	1456	1456	1456	1456	1456	1456	1456	1472
PT2	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.1
PTD	14.0	14.1	14.2	14.2	14.3	14.3	14.4	14.9
TT9	1932	1932	1932	1932	1932	1932	1932	1931
TTD	3560	3300	2750	2500	2250	2000	1755	1120
WAS/WAP	0.0351	0.0329	0.0319	0.0308	0.0297	0.0286	0.0274	0.0242
VENG	1963	1963	1963	1963	1763	1963	1963	1963
VDUCT	2418	2408	2308	2204	2093	1977	1856	1491
AJCUE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDU	7.08	6.30	5.96	5.62	5.27	4.92	4.56	3.36

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	0.
MO	0.	PAM	14.7	PT2	14.7	WRL4	3.00
VA KTS	0	TAM	519	TT2	519	HPEXT	0.

PART PWR

FNT	35557	33735	31794	29669	26345	22789	19322	17136
FGT	35557	33735	31794	29663	26349	22749	19029	17134
WAT	660	650	639	625	612	574	541	506
WFT	26963	24766	21962	14761	17049	14562	12620	10903
TSFC	0.759	0.719	0.693	0.666	0.667	0.639	0.634	0.618
BPR	1.23	1.35	1.46	1.57	1.56	1.66	1.69	1.73
WAT2	660	650	640	626	612	574	541	506
N1	5424	5475	5813	5753	5635	5059	4617	4587
N2	7234	7441	7749	7634	7553	7400	7237	7056
PT30	40.9	36.2	35.4	37.5	31.4	29.7	28.1	26.2
PT4	179.0	171.7	164.4	156.7	141.6	129.8	114.2	103.6
TT30	719	715	698	681	670	657	644	632
TT4	1139	1120	1102	1084	1061	1015	980	958
PT9	32.5	31.0	29.5	28.0	25.3	23.0	21.4	20.2
PTD	33.5	32.6	31.7	30.6	24.5	28.0	26.4	24.7
TT9	1944	1907	1831	1753	1674	1612	1546	1484
TTD	719	716	698	681	670	657	644	631
WAS/WAP	0.0334	0.0327	0.0320	0.0313	0.0306	0.0300	0.0295	0.0290
VENG	1959	1931	1892	1853	1814	1529	1386	1268
VDUCT	1212	1197	1182	1167	1152	1142	1092	1023
AJCOE	5.21	5.21	5.21	5.20	5.20	5.20	5.20	5.20
AJCOD	3.26	3.50	3.83	4.24	4.27	4.27	4.27	4.27

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	0.
MO	0.20	PAM	14.7	PT2	15.1	WRL4	3.00
VA KTS	192	TAM	519	TT2	523	HPEXT	0.

PART PWR

FNT	32157	30147	28219	26072	22829	19567	16908	14349
FGT	16816	16726	32748	30559	27143	23625	20747	17546
WAT	653	653	653	642	622	585	553	516
WFT	26221	23948	21895	19956	17182	14757	12819	11080
TSFC	0.817	0.793	0.776	0.762	0.752	0.756	0.758	0.777
BPR	1.29	1.35	1.41	1.48	1.57	1.65	1.69	1.70
WAT2	637	637	637	637	607	571	540	504
N1	5929	5860	5759	5738	5607	5056	4828	4606
N2	8003	7901	7800	7697	7565	7409	7244	7062
PT30	41.7	38.9	36.1	33.2	32.1	30.5	29.8	27.0
PT4	192.2	174.6	167.0	159.1	143.1	127.9	116.5	105.8
TT30	738	719	702	685	674	662	649	636
TT4	1162	1124	1106	1087	1054	1019	991	963
PT9	33.0	31.5	30.0	28.4	25.6	23.2	21.7	20.4
PTD	40.2	37.3	34.3	31.3	30.2	28.7	27.1	25.4
TT9	1998	1909	1830	1752	1649	1610	1544	1480
TTD	738	719	702	685	672	662	648	636
WAS/WAP	0.0313	0.0306	0.0299	0.0292	0.0285	0.0279	0.0274	0.0269
VENG	1970	1931	1892	1852	1728	1549	1403	1267
VDUCT	1215	1199	1185	1171	1161	1151	1115	1051
AJCOE	5.21	5.21	5.21	5.21	5.21	5.20	5.20	5.20
AJCOD	3.25	3.53	3.85	4.27	4.27	4.27	4.27	4.27

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	0.
MO	0.40	PAM	14.7	PT2	16.4	WRL4	3.00
VA KTS	265	TAM	519	TT2	595	HPEXT	0.

PART PWR

FNT	30209	28138	26011	23537	20355	17603	15104	12746
FGT	39799	37728	35601	33017	29383	25193	23263	20651
WAT	691	691	691	693	650	619	588	555
WFT	27191	24774	22635	20352	17608	15153	13382	11618
TSFC	0.930	0.880	0.870	0.866	0.865	0.872	0.886	0.912
BPR	1.31	1.38	1.45	1.53	1.62	1.67	1.71	1.73
WAT2	624	629	629	621	592	563	535	505
N1	5846	5819	5751	5627	5311	5056	4853	4653
N2	8040	7932	7830	7719	7575	7432	7264	7082
PT30	44.1	41.0	38.0	35.5	34.2	32.8	31.1	29.2
PT4	191.6	182.9	174.4	163.8	147.5	134.5	121.7	112.6
TT30	747	728	710	695	683	675	663	651
TT4	1155	1135	1117	1094	1061	1032	1005	979
PT9	36.7	35.0	33.3	29.3	26.3	24.1	22.5	21.1
PTD	42.5	39.2	36.0	33.4	32.2	30.8	29.2	27.5
TT9	1967	1909	1831	1753	1670	1606	1537	1472
TTD	747	728	710	696	685	675	663	651
WAS/WAP	0.0313	0.0302	0.0295	0.0285	0.0282	0.0277	0.0271	0.0267
VENG	1969	1931	1892	1853	1770	1605	1460	1325
VDUCT	1227	1207	1192	1179	1170	1162	1152	1132
AJCOE	5.21	5.21	5.20	5.21	5.20	5.20	5.21	5.20
AJCOD	3.30	3.60	3.96	4.27	4.27	4.27	4.27	4.27

OCT 4, 1964

ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	0.
MO	0.20	PAM	14.7	PT2	15.1	WRL4	3.00
VA KTS	192	TAM	519	TT2	523	HPEXT	0.

PART PWR

FNT	12119	9935	7959	6656			
FGT	15449	12939	10467	8259			
WAT	456	447	397	331			
WFT	9551	8093	6831	5540			
TSFC	0.784	0.823	0.896	1.030			
BPR	1.72	1.77	1.76	1.74			
WAT2	474	447	389	331			
N1	4379	4128	3745	3244			
N2	6880	6641	6335	5902			
PT30	25.3	23.6	21.7	19.5			
PT4	96.3	86.1	74.0	62.0			
TT30	624	610	596	573			
TT4	935	904	864	808			
PT9	19.4	18.5	17.5	16.6			
PTD	23.9	22.3	20.6	18.7			
TT9	1419	1363	1316	1231			
TTD	623	610	596	575			
WAS/WAP	0.0265	0.0260	0.0256	0.0251			
VENG	1166	1019	879	711			
VDUCT	984	905	810	679			
AJCOE	5.20	5.20	5.21	5.21			
AJCOD	4.27	4.27	4.27	4.27			

OCT 4, 1964

ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	0.
MO	0.40	PAM	14.7	PT2	16.4	WRL4	3.00
VA KTS	265	TAM	519	TT2	595	HPEXT	0.

PART PWR

FNT	10649	8623	6471	4422	2521		
FGT	17917	15419	12669	9945	7264		
WAT	524	490	447	398	342		
WFT	10034	8588	7131	5754	4491		
TSFC	0.962	0.996	1.102	1.301	1.781		
BPR	1.75	1.76	1.79	1.86	1.85		
WAT2	476	445	406	362	311		
N1	4444	4227	3915	3482	2950		
N2	6997	6697	6427	6117	5750		
PT30	27.5	25.7	23.8	21.9	20.0		
PT4	102.8	93.3	81.8	69.5	56.4		
TT30	639	626	612	598	582		
TT4	952	924	889	848	795		
PT9	20.0	19.1	18.1	17.2	16.4		
PTD	25.9	24.2	22.5	20.8	19.1		
TT9	1409	1348	1296	1257	1216		
TTD	639	626	613	599	583		
WAS/WAP	0.0262	0.0258	0.0253	0.0247	0.0243		
VENG	1201	1081	949	801	668		
VDUCT	1071	1001	918	805	714		
AJCOE	5.20	5.20	5.20	5.21	5.21		
AJCOD	4.27	4.27	4.27	4.27	4.27		

OCT 4, 1964

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	5000	WASIZE	440	PT2/PT2R	1.000	WBL3	0.
MN	0.40	PAM	12.2	PT2	12.6	WBL4	3.00
VA KTS	240	TAM	501	TT2	505	WPEXT	0.

PART PWR

FNT	28227	26713	25035	23332	20421	17815	15467	13205
FGT	42567	40556	38337	37174	34641	31535	28747	26317
WAT	544	543	541	543	544	544	544	544
WFT	22105	21234	19160	17431	15567	13917	12563	11304
TSFC	0.832	0.748	0.664	0.594	0.526	0.739	0.741	0.750
BPR	1.67	1.73	1.79	1.86	1.91	1.81	1.87	1.92
WAT2	650	650	650	650	650	650	650	650
N1	8068	7853	7653	7406	7040	6720	6435	6160
N2	7262	7013	7767	7642	7527	7381	7221	7052
PT30	35.9	33.7	31.3	29.2	27.4	26.3	25.9	25.4
PT4	147.0	141.7	136.8	133.5	128.6	116.3	102.9	93.3
TT30	722	704	687	670	658	647	638	622
TT4	1122	1106	1087	1070	1043	1008	976	958
PT9	26.7	27.6	26.2	25.0	22.5	20.5	18.6	17.6
PT0	36.7	35.3	29.9	27.0	25.2	24.8	23.6	22.0
TT9	1322	1310	1831	1754	1677	1605	1538	1473
TT0	722	704	687	670	658	647	638	621
WAS/WAP	0.0315	0.0311	0.0304	0.0297	0.0290	0.0283	0.0278	0.0272
VENG	1970	1932	1891	1851	1813	1636	1464	1327
VDUCT	1232	1197	1172	1152	1148	1136	1128	1123
AJCOE	5.21	5.21	5.21	5.20	5.21	5.20	5.20	5.20
AJCOD	4.21	4.25	4.26	4.26	4.27	4.27	4.27	4.27

OCT 4, 1966

ALT	5000	WASIZE	440	PT2/PT2R	1.000	WBL3	0.
MN	0.40	PAM	12.2	PT2	13.7	WBL4	3.00
VA KTS	240	TAM	501	TT2	517	WPEXT	0.

PART PWR

FNT	26785	25131	23574	21475	18822	16138	13976	11757
FGT	39926	38270	35513	33618	30617	27535	25004	22394
WAT	547	547	547	547	547	547	547	547
WFT	21360	20014	20115	18107	15967	13761	11967	10351
TSFC	0.832	0.775	0.861	0.852	0.867	0.852	0.861	0.880
BPR	1.77	1.84	1.90	1.97	1.95	1.84	1.89	1.92
WAT2	661	661	661	661	614	583	556	523
N1	5439	5275	5117	5767	5451	5133	4838	4592
N2	7383	7242	7740	7635	7548	7402	7247	7079
PT30	28.0	26.9	25.9	25.3	24.3	23.1	24.4	25.3
PT4	154.2	150.9	153.2	144.1	132.5	118.9	108.4	98.8
TT30	732	714	696	679	668	659	648	636
TT4	1135	1117	1099	1081	1050	1017	989	962
PT9	29.2	28.0	27.5	24.1	23.6	21.2	19.5	18.2
PT0	36.7	34.1	31.3	28.5	27.5	26.5	25.2	23.8
TT9	1347	1310	1831	1753	1677	1603	1533	1466
TT0	732	714	696	679	668	659	648	636
WAS/WAP	0.0318	0.0308	0.0301	0.0294	0.0287	0.0280	0.0275	0.0270
VENG	1992	1952	1891	1851	1814	1683	1525	1383
VDUCT	1235	1199	1170	1168	1156	1149	1139	1128
AJCOE	5.21	5.21	5.21	5.21	5.21	5.20	5.21	5.20
AJCOD	4.25	4.25	4.26	4.26	4.27	4.27	4.27	4.27

OCT 4, 1966

ALT	5000	WASIZE	440	PT2/PT2R	1.000	WBL3	0.
MN	0.40	PAM	12.2	PT2	15.6	WBL4	3.00
VA KTS	240	TAM	501	TT2	517	WPEXT	0.

PART PWR

FNT	26374	24666	22697	20195	17398	15097	13025	11033
FGT	39785	37857	35688	33585	29967	27138	24542	22021
WAT	555	555	555	555	614	589	566	537
WFT	25647	23256	21335	19107	16468	14521	12729	11109
TSFC	0.872	0.855	0.948	0.946	0.952	0.962	0.977	1.007
BPR	1.92	1.99	1.66	1.54	1.62	1.68	1.72	1.75
WAT2	628	628	628	618	589	564	541	515
N1	5947	5809	5742	5601	5292	5074	4903	4734
N2	8034	7892	7829	7717	7577	7432	7271	7096
PT30	41.4	39.7	39.8	33.6	32.4	31.3	30.0	28.5
PT4	180.8	172.5	164.4	153.9	139.8	127.4	117.5	104.3
TT30	768	728	711	694	686	678	668	658
TT4	1156	1136	1117	1096	1061	1035	1010	985
PT9	32.7	31.1	29.5	27.5	24.7	22.6	20.8	19.4
PT0	40.6	37.0	34.0	31.6	30.5	29.4	28.2	26.8
TT9	1098	1910	1831	1754	1675	1602	1528	1456
TT0	768	728	711	697	686	678	668	658
WAS/WAP	0.0392	0.0302	0.0295	0.0288	0.0282	0.0276	0.0271	0.0266
VENG	1970	1932	1891	1943	1914	1771	1619	1476
VDUCT	1222	1237	1192	1180	1172	1166	1156	1147
AJCOE	5.21	5.21	5.20	5.21	5.20	5.20	5.20	5.21
AJCOD	4.33	4.33	4.29	4.27	4.27	4.27	4.27	4.27

OCT 4, 1966

ALT	5000	WASIZE	440	PT2/PT2R	1.000	WBL3	0.
MN	0.40	PAM	12.2	PT2	15.6	WBL4	3.00
VA KTS	240	TAM	501	TT2	517	WPEXT	0.

PART PWR

FNT	9954	8081	6304	4445	2725			
FGT	16112	13966	11743	9614	8340			
WAT	462	431	398	357	310			
WFT	8063	7667	6655	5244	4114			
TSFC	0.638	0.969	1.026	1.175	1.535			
BPR	1.76	1.75	1.77	1.81	1.87			
WAT2	493	463	428	383	333			
N1	4430	4273	4225	3833	3111			
N2	6885	6695	6661	6150	5437			
PT30	21.7	22.2	20.6	19.0	17.3			
PT4	90.1	82.9	74.1	62.7	51.4			
TT30	624	611	598	584	565			
TT4	935	908	878	838	783			
PT9	17.2	16.3	15.5	14.6	13.5			
PT0	22.3	20.9	19.5	18.0	16.5			
TT9	1401	1339	1282	1235	1198			
TT0	624	612	598	584	569			
WAS/WAP	0.0265	0.0260	0.0256	0.0251	0.0247			
VENG	1260	1220	1002	862	716			
VDUCT	1283	1222	966	836	744			
AJCOE	5.21	5.13	5.20	5.20	5.21			
AJCOD	4.27	4.27	4.27	4.27	4.27			

OCT 4, 1966

ALT	5000	WASIZE	440	PT2/PT2R	1.000	WBL3	0.
MN	0.40	PAM	12.2	PT2	15.6	WBL4	3.00
VA KTS	240	TAM	501	TT2	517	WPEXT	0.

PART PWR

FNT	9216	7468	5632					
FGT	19655	17336	16206					
WAT	517	482	446					
WFT	9821	8256	7622					
TSFC	1.144	1.105	1.149					
BPR	1.77	1.80	1.81					
WAT2	489	462	449					
N1	4549	4355	4256					
N2	6911	6715	6614					
PT30	27.0	25.5	24.6					
PT4	98.1	91.5	86.1					
TT30	647	635	629					
TT4	954	933	920					
PT9	18.2	17.1	16.7					
PT0	25.4	23.9	23.2					
TT9	1349	1324	1293					
TT0	648	636	629					
WAS/WAP	.0261	0.0254	0.0254					
VENG	1543	1213	1152					
VDUCT	.134	1128	1122					
AJCOE	.29	5.20	5.20					
AJCOD	4.27	4.27	4.27					

OCT 4, 1966

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.60	PAM	9.3	PT2	10.6	WBL4	3.00
VA KTS	376	TAM	465	TT2	459	MPERT	0.

PART PWR

ENT	20435	19184	17877	16468	14951	12806	10752	9233
FGT	29403	28062	27345	25536	23825	21748	19056	17180
WAT	690	685	680	670	665	643	621	603
WFT	19466	17920	16627	15083	13357	11515	9944	8683
TSFC	0.952	0.934	0.919	0.916	0.912	0.913	0.925	0.938
BPR	1.23	1.33	1.38	1.44	1.50	1.58	1.66	1.71
WAT2	654	654	654	654	653	604	574	549
N1	5975	5819	5673	5525	5365	5269	4963	4782
N2	7438	7326	7220	7121	7303	7304	7219	7059
PT30	30.4	29.5	28.6	26.3	23.2	22.5	21.5	20.7
PT4	133.7	129.5	125.8	119.7	109.8	98.5	89.0	81.6
TT30	715	697	680	665	657	662	633	624
TT4	1113	1086	1059	1042	1031	1005	973	948
PT9	24.3	23.1	22.1	21.3	19.6	19.5	18.8	18.4
PTD	29.3	27.6	25.2	22.9	21.8	21.1	20.3	19.5
TT9	1941	1912	1883	1855	1878	1802	1728	1652
TTD	715	697	680	665	653	642	633	624
WAS/WAP	0.0319	0.0317	0.0306	0.0298	0.0292	0.0285	0.0279	0.0273
VENG	1971	1933	1896	1854	1816	1776	1733	1695
VDUCT	1196	1181	1166	1152	1140	1131	1125	1118
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.20	5.21
AJCDD	5.22	5.46	5.77	6.16	6.27	6.27	6.27	6.27

OCT 4, 1966

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.60	PAM	9.3	PT2	10.6	WBL4	3.00
VA KTS	376	TAM	465	TT2	459	MPERT	0.

PART PWR

ENT	7761	6625	5159	3947	3350		
FGT	15315	13577	11497	10263	9412		
WAT	583	563	542	520	507		
WFT	7404	6466	5506	4635	4219		
TSFC	0.966	1.006	1.067	1.176	1.259		
BPR	1.76	1.77	1.80	1.82	1.84		
WAT2	521	494	465	435	415		
N1	6603	6418	6218	6005	5869		
N2	6882	6695	6498	6250	6175		
PT30	19.6	19.5	17.6	15.7	15.5		
PT4	74.7	64.2	61.4	55.7	57.6		
TT30	614	603	591	575	573		
TT4	923	897	871	844	825		
PT9	13.3	12.4	11.7	11.0	10.7		
PTD	19.5	17.6	16.6	15.2	14.6		
TT9	1381	1311	1249	1184	1159		
TTD	614	603	592	579	572		
WAS/WAP	0.0268	0.0261	0.0251	0.0252	0.0250		
VENG	1695	1617	1186	1059	993		
VDUCT	1109	1099	1088	1051	1013		
AJCDE	5.21	5.21	5.20	5.20	5.20		
AJCDD	6.27	6.27	6.27	6.27	6.27		

OCT 4, 1966

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.80	PAM	9.3	PT2	12.6	WBL4	3.00
VA KTS	501	TAM	465	TT2	525	MPERT	0.

PART PWR

ENT	21196	17666	16105	16339	14096	12129	10523	9002
FGT	39483	33984	32403	30488	27816	25007	22895	20866
WAT	544	544	544	538	516	490	471	453
WFT	21562	19680	18017	16235	14044	12239	10740	9395
TSFC	1.017	1.001	0.995	0.996	0.998	1.009	1.021	1.044
BPR	1.31	1.37	1.43	1.51	1.60	1.66	1.71	1.76
WAT2	636	636	636	630	601	573	550	527
N1	5910	5842	5780	5663	5554	5083	4914	4763
N2	7434	7393	7392	7385	7547	7403	7249	7080
PT30	34.1	32.0	29.7	27.6	26.7	25.7	24.8	23.8
PT4	150.5	144.1	137.7	129.8	118.9	106.3	98.1	90.6
TT30	776	718	700	685	675	666	657	649
TT4	1142	1123	1105	1084	1051	1022	997	974
PT9	27.3	26.0	24.7	23.2	20.8	18.9	17.3	15.9
PTD	33.1	30.6	28.1	25.9	25.2	24.2	23.3	22.4
TT9	1990	1911	1832	1755	1679	1604	1527	1451
TTD	736	718	700	685	675	666	658	649
WAS/WAP	0.0312	0.0305	0.0298	0.0291	0.0286	0.0279	0.0273	0.0268
VENG	1973	1932	1893	1854	1814	1775	1733	1690
VDUCT	1213	1198	1183	1171	1162	1154	1147	1140
AJCDE	5.21	5.20	5.21	5.21	5.21	5.20	5.21	5.20
AJCDD	5.31	5.60	5.94	6.27	6.27	6.27	6.27	6.27

OCT 4, 1966

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.80	PAM	9.3	PT2	12.6	WBL4	3.00
VA KTS	501	TAM	465	TT2	525	MPERT	0.

PART PWR

ENT	7625	6292	4997	3793	2677	1693	813
FGT	19011	17180	15307	13517	11816	10246	8751
WAT	433	414	392	370	348	325	302
WFT	8205	7082	6033	5087	4246	3479	2786
TSFC	1.076	1.126	1.208	1.345	1.484	2.054	3.427
BPR	1.77	1.81	1.85	1.88	1.91	1.96	2.04
WAT2	506	484	459	433	406	380	353
N1	4625	4466	4287	4098	3882	3583	3247
N2	6908	6722	6520	6315	6139	5956	5718
PT30	22.8	21.8	20.8	19.6	19.2	17.0	15.8
PT4	84.0	77.1	70.2	63.6	57.2	50.9	44.9
TT30	661	632	621	610	599	587	576
TT4	951	92	901	876	949	819	765
PT9	14.7	13.6	12.6	11.9	11.1	10.5	10.0
PTD	21.5	20.5	19.4	18.3	17.1	16.0	14.9
TT9	1375	1303	1235	1171	1109	1051	998
TTD	641	631	622	610	599	586	575
WAS/WAP	0.0263	0.0258	0.0253	0.0248	0.0243	0.0238	0.0233
VENG	1546	1458	1296	1183	1037	913	788
VDUCT	1133	1124	1116	1105	1094	1086	1031
AJCDE	5.21	5.21	5.21	5.20	5.20	5.20	5.21
AJCDD	6.27	6.27	6.27	6.27	6.27	6.27	6.27

OCT 4, 1966

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.90	PAM	9.3	PT2	14.0	WBL4	3.00
VA KTS	564	TAM	465	TT2	541	MPERT	0.

PART PWR

ENT	21682	19987	18103	16217	13992	12175	10545	9038
FGT	38968	37273	35589	33111	30044	27829	25400	23303
WAT	594	586	586	571	544	522	502	482
WFT	22681	20627	18844	16737	14555	12597	11249	9872
TSFC	1.046	1.052	1.050	1.052	1.061	1.051	1.067	1.092
BPR	1.36	1.41	1.48	1.56	1.64	1.69	1.73	1.76
WAT2	625	625	625	611	582	559	537	516
N1	5867	5788	5725	5540	5265	5050	4898	4758
N2	8038	7952	7890	7710	7568	7423	7262	7094
PT30	36.8	34.2	31.9	30.0	28.9	27.9	26.9	25.8
PT4	180.1	152.4	145.6	134.8	122.0	112.4	104.1	96.6
TT30	748	729	712	698	686	680	672	664
TT4	1158	1138	1119	1093	1062	1036	1012	989
PT9	29.0	27.5	26.1	24.1	21.7	19.9	18.3	16.9
PTD	35.4	32.7	30.1	28.2	27.2	26.2	25.3	24.3
TT9	1988	1911	1832	1754	1680	1603	1527	1450
TTD	748	729	712	698	686	681	672	665
WAS/WAP	0.0358	0.0350	0.0343	0.0337	0.0281	0.0275	0.0270	0.0265
VENG	1970	1932	1893	1856	1815	1774	1733	1690
VDUCT	1223	1207	1195	1182	1176	1167	1160	1153
AJCDE	5.21	5.21	5.21	5.21	5.20	5.20	5.21	5.21
AJCDD	5.38	5.69	6.05	6.27	6.27	6.27	6.27	6.27

OCT 4, 1966

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.90	PAM	9.3	PT2	14.0	WBL4	3.00
VA KTS	564	TAM	465	TT2	541	MPERT	0.

PART PWR

ENT	7639	6283	4966	3766	2667	1680	1238
FGT	21364	19666	17496	15645	13892	12271	11505
WAT	466	445	424	402	380	359	347
WFT	9613	7937	6345	5381	4480	3692	3321
TSFC	1.127	1.184	1.278	1.423	1.682	2.187	2.698
BPR	1.79	1.83	1.87	1.90	1.94	1.98	2.01
WAT2	496	476	453	430	406	383	371
N1	6625	6476	6313	6139	5923	5670	5537
N2	8917	8792	8653	8339	8174	8037	7931
PT30	24.8	23.8	22.7	21.5	20.3	19.0	18.5
PT4	89.6	82.5	75.6	68.6	62.1	55.9	52.8
TT30	656	647	638	628	618	607	601
TT4	967	943	919	894	866	840	826
PT9	15.6	14.6	13.3	12.4	11.6	11.0	10.7
PTD	23.4	22.4	21.3	20.2	19.1	17.9	17.4
TT9	1374	1309	1236	1165	1098	1038	1008
TTD	656	647	637	628	618	607	601
WAS/WAP	0.0260	0.0255	0.0250	0.0245	0.0240	0.0236	0.0233
VENG	1646	1512	1367	1230	1069	978	917
VDUCT	1146	1136	1129	1121	1112	1102	1047
AJCDE	5.21	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	6.27	6.27	6.27	6.27	6.27	6.27	6.27

OCT 4, 1966

ALT	36153	WASIZE	A40	PT2/PT2P	1.000	WBL3	0.
MU	0.80	PAM	3.3	PT2	5.0	WBL4	3.00
VA KTS	454	TAM	390	TT2	440	HPERT	0.

PART PWR

FNT	8880	8356	7777	7157	6931	5715	4768	3945
FGT	12739	12273	11696	11063	10324	9346	8170	7177
WAT	217	217	217	216	210	201	190	179
WFT	7957	7439	6754	6176	5584	4947	4269	3457
TSFC	0.870	0.887	0.868	0.861	0.852	0.849	0.857	0.876
BPR	1.31	1.35	1.33	1.43	1.44	1.49	1.60	1.67
WAT2	646	646	646	642	603	634	597	564
N1	9873	9655	9389	9231	9055	8122	6763	6489
N2	7636	7366	7224	7119	7010	6887	6761	6590
PT30	12.5	11.7	10.8	9.8	9.5	9.2	8.8	8.4
PT4	56.1	54.1	52.2	50.1	47.3	43.2	37.8	33.8
TT30	608	594	579	565	557	547	537	528
TT4	975	958	941	924	901	874	840	811
PT9	10.2	9.8	9.4	9.0	8.4	7.6	6.7	6.0
PTD	12.1	11.5	10.7	9.9	9.0	8.6	8.3	7.9
TT9	1931	1853	1774	1697	1615	1443	1269	1098
TTD	608	594	579	565	557	548	537	528
WAS/WAP	0.0311	0.0322	0.0315	0.0308	0.0302	0.0295	0.0286	0.0279
VENG	1843	1851	1812	1771	1729	1686	1644	1569
VDUCT	1134	1091	1076	1063	1056	1048	1037	1028
AJCDE	5.20	5.21	5.21	5.20	5.21	5.21	5.21	5.19
AJCDD	3.29	3.53	3.87	4.27	4.27	4.27	4.27	4.27

OCT 4, 1964

ALT	36153	WASIZE	A40	PT2/PT2P	1.000	WBL3	0.
MU	0.80	PAM	3.3	PT2	5.0	WBL4	3.00
VA KTS	394	TAM	390	TT2	418	HPERT	0.

PART PWR

HIGH COMPRESSOR AIRBLEED EXCEEDED 5 PER CENT ON CASE

FNT	5966
FGT	6328
WAT	170
WFT	2952
TSFC	0.936
BPR	1.71
WAT2	534
N1	4294
N2	6416
PT30	7.9
PT4	30.6
TT30	518
TT4	796
PT9	5.4
PTD	7.5
TT9	1224
TTD	518
WAS/WAP	0.0273
VENG	1435
VDUCT	1018
AJCDE	5.20
AJCDD	4.27

OCT 4, 1964

ALT	36150	WASIZE	A40	PT2/PT2P	1.000	WBL3	0.
MU	0.80	PAM	3.3	PT2	5.0	WBL4	3.00
VA KTS	453	TAM	390	TT2	440	HPERT	0.

PART PWR

FNT	9698	9061	8362	7762	6887	5873	4884	4129
FGT	15799	15153	14464	13584	12644	11546	10050	9044
WAT	253	253	253	248	238	227	214	206
WFT	9230	8581	7931	7127	6336	5425	4593	3953
TSFC	0.952	0.967	0.936	0.925	0.920	0.924	0.940	0.957
BPR	1.35	1.38	1.43	1.44	1.47	1.55	1.65	1.70
WAT2	686	686	686	670	647	614	580	552
N1	6036	5971	5938	5890	5392	5053	4725	4522
N2	7562	7460	7334	7225	7112	6976	6828	6672
PT30	14.2	13.1	11.9	11.5	11.1	10.7	10.3	9.8
PT4	64.5	63.2	60.9	57.9	54.0	48.2	42.7	38.8
TT30	628	612	597	585	580	570	560	552
TT4	1011	994	974	955	931	900	867	842
PT9	11.9	11.4	10.9	10.4	9.6	8.5	7.5	6.8
PTD	13.6	12.5	11.2	10.9	10.5	10.1	9.7	9.2
TT9	1956	1778	1699	1622	1545	1469	1395	1320
TTD	628	612	597	590	581	570	560	552
WAS/WAP	0.0323	0.0316	0.0309	0.0303	0.0297	0.0289	0.0282	0.0276
VENG	1905	1865	1825	1784	1742	1701	1658	1614
VDUCT	1121	1107	1093	1086	1078	1068	1059	1052
AJCDE	5.21	5.21	5.21	5.20	5.21	5.21	5.21	5.20
AJCDD	3.90	3.81	4.23	4.27	4.27	4.27	4.27	4.27

OCT 4, 1964

ALT	36153	WASIZE	A40	PT2/PT2P	1.000	WBL3	0.
MU	0.80	PAM	3.3	PT2	5.0	WBL4	3.00
VA KTS	453	TAM	390	TT2	440	HPERT	0.

PART PWR

HIGH COMPRESSOR AIRBLEED EXCEEDED 5 PER CENT ON CASE

FNT	3444	2902	2184				
FGT	8130	7255	6385				
WAT	199	185	174				
WFT	3601	2906	2446				
TSFC	0.987	1.037	1.120				
BPR	1.76	1.77	1.81				
WAT2	526	500	472				
N1	4363	4204	4019				
N2	6495	6308	6059				
PT30	9.4	8.9	8.4				
PT4	35.6	32.2	29.0				
TT30	544	535	525				
TT4	818	795	769				
PT9	6.2	5.6	5.2				
PTD	8.8	8.4	7.9				
TT9	1244	1171	1103				
TTD	544	535	525				
WAS/WAP	0.0270	0.0264	0.0258				
VENG	1569	1423	1268				
VDUCT	1044	1035	1025				
AJCDE	5.21	5.20	5.20				
AJCDD	4.27	4.27	4.27				

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ALT	36150	WASIZE	A40	PT2/PT2P	1.000	WBL3	0.
MU	0.90	PAM	3.3	PT2	5.0	WBL4	3.00
VA KTS	516	TAM	390	TT2	453	HPERT	0.

PART PWR

FNT	10689	10009	9272	8545	7717	6686	5568	4733
FGT	18186	17507	16769	15920	14859	13460	12026	10853
WAT	277	277	277	272	264	252	238	226
WFT	10516	9757	8972	8202	7393	6394	5398	4647
TSFC	0.984	0.975	0.968	0.955	0.933	0.936	0.966	0.982
BPR	1.34	1.37	1.42	1.43	1.46	1.53	1.63	1.69
WAT2	689	689	689	673	652	622	588	559
N1	6096	6090	6019	5921	5533	5201	4868	4636
N2	7698	7565	7458	7351	7242	7112	6965	6812
PT30	13.9	13.8	13.5	12.9	12.6	12.0	11.5	11.0
PT4	73.0	70.5	68.0	65.0	61.0	55.1	48.8	44.2
TT30	648	633	617	601	559	589	580	571
TT4	1042	1029	1008	987	964	934	901	874
PT9	13.3	12.8	12.3	11.7	10.6	9.8	8.6	7.8
PTD	14.2	14.1	12.7	12.1	11.7	11.3	10.9	10.4
TT9	1916	1838	1759	1682	1605	1529	1454	1379
TTD	649	633	617	608	599	589	579	572
WAS/WAP	0.0324	0.0317	0.0310	0.0304	0.0298	0.0291	0.0284	0.0277
VENG	1935	1894	1856	1816	1775	1734	1692	1649
VDUCT	1139	1129	1112	1103	1095	1086	1077	1070
AJCDE	5.21	5.21	5.21	5.20	5.20	5.21	5.21	5.20
AJCDD	3.48	3.75	4.13	4.27	4.27	4.27	4.27	4.27

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ALT	36150	WASIZE	A40	PT2/PT2P	1.000	WBL3	0.
MU	0.90	PAM	3.3	PT2	5.0	WBL4	3.00
VA KTS	516	TAM	390	TT2	453	HPERT	0.

PART PWR

HIGH COMPRESSOR AIRBLEED EXCEEDED 5 PER CENT ON CASE

FNT	4003	3314	2684	2056	1491		
FGT	9856	8896	8011	7047	6215		
WAT	216	206	197	186	175		
WFT	4020	3460	2951	2473	2049		
TSFC	1.034	1.064	1.099	1.203	1.388		
BPR	1.73	1.76	1.80	1.85	1.89		
WAT2	535	510	487	460	432		
N1	4477	4328	4176	4001	3816		
N2	6845	6663	6476	6059	5853		
PT30	10.6	10.1	9.6	9.1	8.5		
PT4	40.6	37.0	33.8	30.6	27.2		
TT30	565	555	547	537	527		
TT4	850	827	804	779	756		
PT9	7.1	6.5	5.9	5.3	4.9		
PTD	9.9	9.5	9.0	8.6	8.0		
TT9	1303	1228	1154	1083	1019		
TTD	565	555	546	537	528		
WAS/WAP	0.0271	0.0265	0.0259	0.0254	0.0248		
VENG	1604	1509	1460	1298	1151		
VDUCT	1062	1054	1046	1037	1029		
AJCDE	5.21	5.21	5.20	5.21	5.22		
AJCDD	4.27	4.27	4.27	4.27	4.27		

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THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECTIONS 793 AND 794. THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

PERFORMANCE WITH HORSEPOWER EXTRACTION AND NO AIRBLEED

Pages	TAMB	Power Setting	Flow Schedule
B-D98	STD. Day	Take-Off	Base
B-D99 to B-D106	STD. Day	Max Thrust	Base
B-D107 to B-D108	STD. Day	Max Thrust	High
B-D109 to B-D110	STD. Day	Max Thrust	Low
B-D111 to B-D112	STD. Day	Cruise	Base
B-D113 to B-D114	STD. Day	Cruise	High
B-D115 to B-D116	STD. Day	Cruise	Low
B-D117 to B-D120	STD. Day	Part Power	Base

ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	0.	
MC	0.	P1M	14.7	PT2	14.7	WRL4	0.	
VA KTS	0	TAM	519	TT2	519	WPEXT	500.0	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
FNT	55584	52352	50831	49249	47559	45847	41190	35107
FGT	55584	52352	50831	49249	47599	45847	41190	35707
WAT	640	640	640	640	640	640	640	640
WFT	102121	82748	74836	57458	60726	54326	40367	26693
TSFC	1.861	1.481	1.472	1.370	1.276	1.185	0.980	0.756
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.31
WAT2	640	640	640	640	640	640	640	640
N1	5893	5893	5893	5893	5893	5893	5893	5941
N2	7923	7923	7923	7923	7923	7923	7923	7941
PT3D	39.1	39.1	39.1	39.1	39.1	39.1	39.1	41.0
PT4	172.6	172.6	172.6	172.6	172.6	172.6	172.6	179.1
TT3D	722	722	722	722	722	722	722	735
TT4	1122	1122	1122	1122	1122	1122	1122	1137
PT9	31.4	31.4	31.4	31.4	31.4	31.4	31.4	32.5
PTD	34.7	35.4	35.7	35.9	36.2	36.5	37.0	39.4
TT9	1988	1989	1985	1985	1989	1989	1987	1988
TTD	3560	3000	2750	2500	2250	2000	1606	735
WAS/WAP	0.0472	0.0444	0.0432	0.0415	0.0406	0.0392	0.0347	0.0314
VENG	1970	1970	1970	1970	1970	1970	1970	1970
VDUCT	2617	2407	2307	2203	2093	1976	1666	1212
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.19	8.12	7.65	7.18	6.71	6.24	5.06	3.26

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	0.	
MC	0.29	P1M	14.7	PT2	15.1	WRL4	0.	
VA KTS	192	TAM	519	TT2	523	WPEXT	500.0	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
FNT	52461	49329	47761	46130	44421	42627	37851	32639
FGT	57192	53958	52290	50655	48960	47155	42377	36766
WAT	653	653	653	653	653	653	653	653
WFT	99427	80732	72995	65771	59184	52921	39161	26249
TSFC	1.697	1.637	1.529	1.426	1.332	1.241	1.038	0.814
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.32
WAT2	637	637	637	637	637	637	637	637
N1	5875	5879	5876	5879	5879	5879	5879	5930
N2	7935	7935	7935	7935	7935	7935	7935	7954
PT3D	39.8	39.8	39.8	39.8	39.8	39.8	39.8	41.7
PT4	175.5	175.5	175.5	175.5	175.5	175.5	175.5	182.4
TT3D	725	724	725	725	725	725	725	739
TT4	1126	1126	1126	1126	1126	1126	1126	1142
PT9	32.0	32.0	32.0	32.0	32.0	32.0	32.0	33.1
PTD	35.2	35.9	36.2	36.5	36.8	37.0	37.5	40.2
TT9	1990	1990	1990	1990	1990	1990	1990	1988
TTD	3560	3000	2750	2500	2250	2000	1606	738
WAS/WAP	0.0479	0.0443	0.0431	0.0418	0.0405	0.0391	0.0346	0.0313
VENG	1971	1971	1971	1971	1971	1971	1971	1970
VDUCT	2617	2407	2307	2203	2093	1976	1666	1215
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.29	8.17	7.70	7.23	6.76	6.28	5.09	3.28

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WRL3	0.	
MC	0.49	P1M	14.7	PT2	16.4	WRL4	0.	
VA KTS	264	TAM	519	TT2	535	WPEXT	500.0	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
FNT	52495	49019	47290	45494	43625	41642	36486	30349
FGT	62289	58809	56980	55084	53219	51232	46078	39539
WAT	691	691	691	691	691	691	691	691
WFT	105905	84766	76562	68887	61908	55270	41638	27209
TSFC	1.993	1.729	1.615	1.514	1.419	1.327	1.125	0.897
BPR	1.34	1.36	1.36	1.36	1.36	1.36	1.36	1.34
WAT2	629	629	629	629	629	629	629	629
N1	5844	5844	5844	5844	5844	5844	5844	5892
N2	7968	7968	7968	7968	7968	7968	7968	7990
PT3D	42.1	42.1	42.1	42.1	42.1	42.1	42.1	44.1
PT4	184.2	184.2	184.2	184.2	184.2	184.2	184.2	191.6
TT3D	735	735	735	735	735	735	735	747
TT4	1139	1139	1139	1139	1139	1139	1139	1154
PT9	33.5	33.5	33.5	33.5	33.5	33.5	33.5	34.7
PTD	37.2	37.9	38.2	38.5	38.9	39.1	39.7	42.5
TT9	1989	1989	1985	1989	1989	1989	1989	1988
TTD	3560	3000	2750	2500	2250	2000	1615	747
WAS/WAP	0.0465	0.0438	0.0426	0.0413	0.0400	0.0388	0.0352	0.0309
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1671	1222
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.33	8.25	7.77	7.29	6.81	6.33	5.15	3.32

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ALT	6000	WASIZE	640	PT2/PT2P	1.000	WRL3	0.	
MC	0.44	P1M	11.8	PT2	11.8	WRL4	0.	
VA KTS	457	TAM	457	TT2	457	WPEXT	500.0	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
FNT	47734	44976	43666	42305	40899	39386	35275	30451
FGT	47759	44976	43666	42305	40888	39386	35276	30451
WAT	536	536	536	536	536	536	536	536
WFT	81457	67757	61349	55182	49920	44738	31124	22286
TSFC	1.752	1.507	1.405	1.305	1.221	1.136	0.919	0.732
BPR	1.31	1.33	1.31	1.31	1.31	1.31	1.31	1.31
WAT2	655	655	655	655	655	655	655	655
N1	5949	5949	5949	5949	5949	5949	5949	5995
N2	7869	7869	7869	7869	7869	7869	7869	7902
PT3D	32.8	32.8	32.8	32.8	32.8	32.8	32.8	34.2
PT4	145.0	145.0	145.0	145.0	145.0	145.0	145.0	151.2
TT3D	704	704	704	704	704	704	704	716
TT4	1098	1098	1098	1098	1098	1098	1098	1112
PT9	26.5	26.5	26.5	26.5	26.5	26.5	26.5	27.3
PTD	29.1	29.7	30.0	30.2	30.4	30.6	31.1	33.0
TT9	1991	1991	1991	1991	1991	1991	1991	1990
TTD	3560	3000	2750	2500	2250	2000	1587	716
WAS/WAP	0.0481	0.0454	0.0441	0.0428	0.0415	0.0401	0.0364	0.0319
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2307	2203	2093	1976	1655	1167
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	9.13	8.07	7.60	7.13	6.67	6.20	4.99	3.25

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ALT	6000	WASIZE	640	PT2/PT2P	1.000	WRL3	0.	
MC	0.29	P1M	11.8	PT2	12.1	WRL4	0.	
VA KTS	310	TAM	457	TT2	501	WPEXT	500.0	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
FNT	45486	42590	41239	39836	38376	36825	32612	27647
FGT	49191	46309	44956	43591	42089	40540	36127	31362
WAT	547	547	547	547	547	547	547	547
WFT	83920	67930	61507	55512	50020	44817	33204	22309
TSFC	1.846	1.595	1.491	1.394	1.304	1.217	1.018	0.807
BPR	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.31
WAT2	652	652	652	652	652	652	652	652
N1	5938	5938	5938	5938	5938	5938	5938	5978
N2	7861	7861	7861	7861	7861	7861	7861	7875
PT3D	33.5	33.5	33.5	33.5	33.5	33.5	33.5	34.9
PT4	147.8	147.8	147.8	147.8	147.8	147.8	147.8	153.1
TT3D	707	707	707	707	707	707	707	719
TT4	1102	1102	1102	1102	1102	1102	1102	1117
PT9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	27.8
PTD	29.7	30.3	30.6	30.8	31.0	31.2	31.7	33.7
TT9	1991	1991	1991	1991	1991	1991	1991	1990
TTD	3560	3000	2750	2500	2250	2000	1590	719
WAS/WAP	0.0480	0.0452	0.0440	0.0427	0.0413	0.0399	0.0363	0.0318
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2307	2203	2093	1976	1658	1159
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	9.14	8.08	7.61	7.15	6.68	6.21	5.00	3.23

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ALT	6000	WASIZE	640	PT2/PT2P	1.000	WRL3	0.	
MC	0.45	P1M	11.8	PT2	13.2	WRL4	0.	
VA KTS	259	TAM	497	TT2	519	WPEXT	500.0	
TAKE OFF MAX D/H						MIN D/H NOT LIT		
FNT	45627	42473	40999	39460	37863	36172	31652	26270
FGT	53498	50346	48866	47330	45734	44063	39523	34146
WAT	579	579	579	579	579	579	579	579
WFT	98352	71647	64676	58320	52514	46998	34966	23353
TSFC	1.937	1.683	1.578	1.474	1.387	1.299	1.107	0.888
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.32
WAT2	644	644	644	644	644	644	644	644
N1	5904	5904	5904	5904	5904	5904	5904	5949
N2	7898	7898	7898	7898	7898	7898	7898	7915
PT3D	35.3	35.3	35.3	35.3	35.3	35.3	35.3	36.9
PT4	156.1	156.1	156.1	156.1	156.1	156.1	156.1	161.8
TT3D	717	717	717	717	717	717	717	729
TT4	1116	1116	1116	1116	1116	1116	1116	1130
PT9	28.4	28.4	28.4	28.4	28.4	28.4	28.4	29.4
PTD	31.3	31.9	32.2	32.4	32.7	32.9	33.4	35.6
TT9	1990	1990	1990	1990	1990	1990	1990	1989
TTD	3560	3000	2750	2500	2250	2007	1599	729
WAS/WAP	0.0474	0.0447	0.0435	0.0422	0.0408	0.0394	0.0359	0.0315
VENG	1971	1971	1971	1971	1971	1971	1971	1970
VDUCT	2617	2407	2307	2203	2093	1976	1662	1207
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.21	8.14	7.67	7.20	6.72	6.25	5.06	3.27

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.	PAM	14.7	PT2	14.7	WBL4	0.
VA KTS	0	TAM	519	TT2	519	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	55584	52352	50831	49248	47599	45867	41190	35367
FGT	55584	52352	50831	49248	47599	45867	41190	35707
WAT	640	640	640	640	640	640	640	640
WFT	102321	82748	76836	67458	60726	54328	40357	26593
TSFC	1.841	1.581	1.472	1.370	1.275	1.185	0.960	0.756
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.34	1.31
WAT2	640	640	640	640	640	640	640	640
N1	5893	5893	5893	5893	5893	5893	5893	5941
N2	7923	7923	7923	7923	7923	7923	7923	7941
PT30	39.1	39.1	39.1	39.1	39.1	39.1	39.1	41.0
PT4	172.6	172.6	172.6	172.6	172.6	172.6	172.6	179.1
TT30	722	722	722	722	722	722	722	735
TT4	1122	1122	1122	1122	1122	1122	1122	1137
PT9	31.4	31.4	31.4	31.4	31.4	31.4	31.4	32.5
PTO	34.7	35.4	35.7	35.9	36.2	36.5	37.0	39.5
TT9	1956	1989	1985	1985	1989	1989	1949	1988
TTO	3560	3000	2750	2500	2250	2000	1404	735
WAS/WAP	0.0472	0.0445	0.0432	0.0415	0.0406	0.0392	0.0357	0.0314
VENG	1970	1970	1970	1970	1970	1970	1970	1970
VDUCT	2617	2407	2307	2203	2093	1976	1664	1212
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.18	8.12	7.65	7.18	6.71	6.24	5.06	3.26

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.20	PAM	14.7	PT2	15.1	WBL4	0.
VA KTS	132	TAM	519	TT2	523	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	52461	49329	47761	46130	44471	42677	37851	32738
FGT	47190	53458	52790	50855	48960	47155	42379	36766
WAT	653	653	653	653	653	653	653	653
WFT	99877	80732	72445	65771	59184	52921	39161	26249
TSFC	1.897	1.637	1.519	1.426	1.332	1.241	1.018	0.814
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.32
WAT2	637	637	637	637	637	637	637	637
N1	5876	5879	5875	5879	5879	5879	5879	5910
N2	7935	7935	7935	7935	7935	7935	7935	7956
PT30	39.8	39.8	39.8	39.8	39.8	39.8	39.8	41.7
PT4	175.5	175.5	175.5	175.5	175.5	175.5	175.5	182.4
TT30	725	725	725	725	725	725	725	738
TT4	1126	1126	1126	1126	1126	1126	1126	1142
PT9	32.0	32.0	32.0	32.0	32.0	32.0	32.0	33.1
PTO	35.2	35.9	36.2	36.5	36.8	37.0	37.5	40.2
TT9	1990	1990	1990	1990	1990	1990	1990	1988
TTO	3560	3000	2750	2500	2250	2000	1408	738
WAS/WAP	0.0470	0.0445	0.0431	0.0418	0.0405	0.0391	0.0356	0.0313
VENG	1971	1971	1971	1971	1971	1971	1971	1974
VDUCT	2617	2407	2307	2203	2093	1976	1666	1215
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.25	8.17	7.70	7.23	6.76	6.28	5.09	3.28

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.40	PAM	14.7	PT2	16.4	WBL4	0.
VA KTS	265	TAM	519	TT2	535	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	52496	49019	47290	45494	43625	41642	36486	30345
FGT	62289	58409	56846	55084	53215	51232	46076	39535
WAT	691	691	691	691	691	691	691	691
WFT	105205	84746	76542	68887	61908	55270	41038	27209
TSFC	1.998	1.729	1.615	1.514	1.419	1.327	1.125	0.897
BPR	1.36	1.34	1.36	1.36	1.36	1.36	1.36	1.34
WAT2	629	629	629	625	629	629	629	629
N1	5844	5844	5844	5844	5844	5844	5844	5896
N2	7968	7968	7969	7968	7968	7968	7968	7990
PT30	42.1	42.1	42.1	42.1	42.1	42.1	42.1	44.1
PT4	184.2	184.2	184.2	184.2	184.2	184.2	184.2	191.6
TT30	735	735	735	735	735	735	735	747
TT4	1138	1138	1136	1136	1139	1139	1139	1154
PT9	33.5	33.5	33.5	33.5	33.5	33.5	33.5	34.7
PTO	37.2	37.9	38.2	38.5	38.9	39.1	39.7	42.5
TT9	1989	1989	1989	1989	1989	1989	1989	1988
TTO	3560	3000	2750	2500	2250	2000	1415	747
WAS/WAP	0.0465	0.0438	0.0426	0.0413	0.0400	0.0386	0.0352	0.0309
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1671	1222
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.33	8.25	7.77	7.25	6.81	6.33	5.15	3.33

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.60	PAM	14.7	PT2	18.7	WBL4	0.
VA KTS	397	TAM	519	TT2	556	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	55263	50979	48972	46897	44722	42426	36610	25361
FGT	71026	66767	64795	62855	60689	58189	52171	45329
WAT	757	757	757	757	757	757	757	757
WFT	115039	92560	83442	76925	67162	59378	44266	28523
TSFC	2.082	1.816	1.704	1.559	1.502	1.409	1.210	0.978
BPR	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.39
WAT2	615	615	615	615	615	615	615	615
N1	5772	5772	5772	5772	5772	5772	5772	5832
N2	8018	8018	8018	8018	8018	8018	8018	8045
PT30	45.8	45.8	45.8	45.8	45.8	45.8	45.8	48.1
PT4	197.5	197.5	197.5	197.5	197.5	197.5	197.5	206.2
TT30	749	749	749	749	749	749	749	762
TT4	1157	1157	1157	1157	1157	1157	1157	1173
PT9	35.8	35.8	35.8	35.8	35.8	35.8	35.8	37.3
PTO	40.3	41.1	41.4	41.8	42.1	42.4	43.0	46.1
TT9	1989	1989	1989	1989	1989	1989	1989	1988
TTO	3560	3000	2750	2500	2250	2000	1429	762
WAS/WAP	0.0457	0.0431	0.0418	0.0406	0.0393	0.0379	0.0346	0.0303
VENG	1970	1970	1970	1970	1970	1970	1970	1969
VDUCT	2617	2407	2308	2203	2093	1976	1678	1234
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.58	8.47	7.98	7.48	6.99	6.49	5.31	3.44

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.79	PAM	14.7	PT2	20.4	WBL4	0.
VA KTS	463	TAM	519	TT2	586	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	57563	52832	50627	48338	45963	43445	37182	23397
FGT	73011	72300	70095	67806	65431	62913	56648	48865
WAT	802	802	802	802	802	802	802	802
WFT	121797	97792	88046	78937	70434	62738	46610	29914
TSFC	2.117	1.851	1.735	1.633	1.537	1.444	1.248	1.018
BPR	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.42
WAT2	606	606	606	606	606	606	606	606
N1	5727	5727	5727	5727	5727	5727	5727	5779
N2	8049	8049	8049	8049	8049	8049	8049	8074
PT30	48.5	48.5	48.5	48.5	48.5	48.5	48.5	50.6
PT4	205.9	205.9	205.9	205.9	205.9	205.9	205.9	214.7
TT30	759	759	759	759	759	759	759	770
TT4	1168	1168	1168	1168	1168	1168	1168	1184
PT9	37.3	37.3	37.2	37.3	37.3	37.3	37.3	38.9
PTO	42.4	43.3	43.7	44.1	44.5	44.8	45.4	48.5
TT9	1988	1988	1988	1988	1988	1988	1988	1988
TTO	3560	3000	2750	2500	2250	2000	1437	776
WAS/WAP	0.0493	0.0426	0.0414	0.0401	0.0388	0.0374	0.0342	0.0299
VENG	1970	1970	1970	1970	1970	1970	1970	1970
VDUCT	2617	2407	2308	2203	2093	1976	1683	1241
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.73	8.59	8.09	7.56	7.09	6.58	5.40	3.52

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.20	PAM	7.3	PT2	8.5	WBL4	0.
VA KTS	125	TAM	465	TT2	469	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	29479	33236	32186	31094	29957	29758	25310	21219
FGT	38178	39939	34895	33769	32660	31461	28034	24022
WAT	411	411	411	411	411	411	411	411
WFT	63756	51703	46865	42380	38241	34331	25238	17020
TSFC	1.747	1.556	1.456	1.363	1.277	1.194	0.996	0.798
BPR	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
WAT2	674	674	674	674	674	674	674	674
N1	6030	6030	6030	6030	6030	6030	6030	6062
N2	7746	7746	7746	7746	7746	7746	7746	7752
PT30	25.1	25.1	25.1	25.1	25.1	25.1	25.1	26.1
PT4	111.0	111.0	111.0	111.0	111.0	111.0	111.0	114.5
TT30	678	678	678	678	678	678	678	688
TT4	1064	1064	1064	1064	1064	1064	1064	1078
PT9	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.8
PTO	22.2	22.7	22.9	23.1	23.2	23.4	23.8	25.2
TT9	1993	1993	1993	1993	1993	1993	1993	1993
TTO	3560	3000	2750	2500	2250	2000	1363	689
WAS/WAP	0.0496	0.0468	0.0459	0.0441	0.0427	0.0413	0.0373	0.0327
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2407	2307	2203	2093	1976	1640	1193
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.19	8.12	7.65	7.18	6.71	6.23	4.96	3.19

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ALT	19000	WASIZE	640	PT2/PT2P	1.000	WBL3		Q=
MO	0.49	PAM	8.2	PT2	9.3	WBL4		C=
VA KTS	251	TAM	465	TT2	480	HPEXT		500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	35895	33432	32280	31045	29938	28527	26948	25067
FGT	41612	39170	38018	36822	35575	34264	30546	28244
WAT	436	436	436	436	436	436	436	436
WFT	67379	64607	49613	46707	40324	36175	26868	17559
TSFC	1.477	1.633	1.593	1.438	1.391	1.268	1.073	0.876
BPR	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
WAT2	666	666	666	666	666	666	666	666
N1	5992	5992	5992	5992	5992	5992	5992	6026
N2	7779	7779	7779	7775	7779	7779	7779	7786
PT3D	26.7	26.7	26.7	26.7	26.7	26.7	26.7	27.7
PT4	117.9	117.9	117.9	117.9	117.9	117.9	117.9	121.7
TT3D	688	688	688	688	688	688	688	696
TT4	1077	1077	1077	1077	1077	1077	1077	1091
PT9	21.5	21.5	21.5	21.5	21.5	21.5	21.5	22.2
PTD	23.6	24.1	24.3	24.5	24.7	24.9	25.2	26.7
TT9	1992	1992	1992	1992	1992	1992	1992	1993
TTD	3560	3000	2750	2500	2250	2000	1379	699
WAS/WAP	0.0490	0.0462	0.0449	0.0436	0.0422	0.0408	0.0370	0.0324
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2407	2307	2201	2093	1976	1646	1182
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.17	9.10	7.63	7.17	6.70	6.22	4.98	3.20

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3		Q=
MO	0.53	PAM	8.3	PT2	9.8	WBL4		C=
VA KTS	313	TAM	465	TT2	489	HPEXT		500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	36789	34157	32927	31652	30326	28926	25594	20461
FGT	44241	41650	40415	39144	37818	36418	32946	27554
WAT	456	456	456	456	456	456	456	456
WFT	70199	56867	51499	46512	41934	37596	27751	18659
TSFC	1.998	1.665	1.564	1.496	1.383	1.300	1.108	0.912
BPR	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
WAT2	691	691	691	691	691	691	691	691
N1	5988	5968	5969	5968	5968	5968	5968	6004
N2	7804	7804	7804	7804	7804	7804	7804	7813
PT3D	27.8	27.8	27.8	27.8	27.8	27.8	27.8	28.9
PT4	123.0	123.0	123.0	123.0	123.0	123.0	123.0	127.2
TT3D	699	699	699	699	699	699	699	706
TT4	1086	1086	1086	1086	1086	1086	1086	1100
PT9	22.5	22.5	22.5	22.5	22.5	22.5	22.5	23.2
PTD	24.6	25.1	25.3	25.5	25.7	25.9	26.3	27.9
TT9	1992	1992	1992	1992	1992	1992	1992	1992
TTD	3560	3000	2750	2500	2250	2000	1379	706
WAS/WAP	0.0486	0.0458	0.0445	0.0432	0.0418	0.0404	0.0367	0.0321
VENG	1972	1972	1972	1972	1972	1972	1972	1971
VDUCT	2617	2407	2307	2203	2093	1976	1650	1189
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.21	8.13	7.66	7.19	6.72	6.24	5.01	3.22

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3		Q=
MO	0.60	PAM	8.3	PT2	10.6	WBL4		C=
VA KTS	376	TAM	465	TT2	459	HPEXT		500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	38120	35774	33945	32568	31138	29629	25917	20665
FGT	47568	44742	43419	42036	40606	39097	34985	30073
WAT	480	480	480	480	480	480	480	480
WFT	73730	59660	54000	46735	41913	37337	29077	19500
TSFC	1.633	1.691	1.591	1.496	1.410	1.328	1.140	0.946
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.32
WAT2	654	654	654	654	654	654	654	654
N1	5938	5938	5938	5938	5938	5938	5938	5978
N2	7835	7835	7835	7835	7835	7835	7835	7849
PT3D	29.2	29.2	29.2	29.2	29.2	29.2	29.2	30.4
PT4	129.3	129.3	129.3	129.3	129.3	129.3	129.3	133.9
TT3D	703	703	703	703	703	703	703	715
TT4	1098	1098	1098	1098	1098	1098	1098	1112
PT9	23.6	23.6	23.6	23.6	23.6	23.6	23.6	24.4
PTD	25.9	26.4	25.6	26.9	27.0	27.2	27.6	29.4
TT9	1992	1992	1992	1992	1992	1992	1992	1991
TTD	3560	3000	2750	2500	2250	2000	1387	715
WAS/WAP	0.0491	0.0454	0.0441	0.0428	0.0414	0.0400	0.0361	0.0319
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2307	2201	2093	1976	1654	1196
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.24	9.16	7.69	7.22	6.75	6.27	5.04	3.49

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3		Q=
MO	0.80	PAM	8.3	PT2	12.6	WBL4		C=
VA KTS	501	TAM	465	TT2	525	HPEXT		500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	42007	38508	36994	35346	33638	31835	27096	21346
FGT	56305	52885	51292	49644	47935	46132	41394	35644
WAT	544	544	544	544	544	544	544	544
WFT	92979	87016	80560	54549	49051	43830	32462	21562
TSFC	1.975	1.737	1.637	1.543	1.458	1.377	1.178	1.010
BPR	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.34
WAT2	636	636	636	636	636	636	636	636
N1	5865	5865	5865	5865	5865	5865	5865	5911
N2	7914	7914	7914	7914	7914	7914	7914	7935
PT3D	32.8	32.8	32.8	32.8	32.8	32.8	32.8	34.4
PT4	145.0	145.0	145.0	145.0	145.0	145.0	145.0	150.6
TT3D	724	724	724	724	724	724	724	736
TT4	1126	1126	1126	1126	1126	1126	1126	1141
PT9	26.4	26.4	26.4	26.4	26.4	26.4	26.4	27.3
PTD	29.0	29.5	29.8	30.0	30.3	30.5	30.9	33.1
TT9	1991	1991	1991	1991	1991	1991	1991	1990
TTD	3560	3000	2750	2500	2250	2000	1406	734
WAS/WAP	0.0470	0.0443	0.0430	0.0417	0.0404	0.0390	0.0355	0.0311
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2307	2203	2093	1976	1665	1213
AJCDE	5.23	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.42	8.32	7.86	7.34	6.87	6.39	5.18	3.34

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WBL3		Q=
MO	1.00	PAM	8.3	PT2	15.7	WBL4		C=
VA KTS	626	TAM	465	TT2	558	HPEXT		500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	47738	43463	41474	39415	37291	35047	29389	22314
FGT	68486	64211	62223	60167	58040	55796	50138	43063
WAT	631	631	631	631	631	631	631	631
WFT	96224	77344	69686	62535	56016	49816	36781	23828
TSFC	2.016	1.790	1.680	1.586	1.502	1.421	1.252	1.068
BPR	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.41
WAT2	613	613	613	613	613	613	613	613
N1	5752	5752	5752	5752	5752	5752	5752	5804
N2	8001	8001	8001	8001	8001	8001	8001	8025
PT3D	37.8	37.8	37.8	37.8	37.8	37.8	37.8	39.5
PT4	162.9	162.9	162.9	162.9	162.9	162.9	162.9	169.8
TT3D	748	748	748	748	748	748	748	759
TT4	1156	1156	1156	1156	1156	1156	1156	1172
PT9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	30.8
PTD	33.0	33.7	34.0	34.3	34.6	34.9	35.4	37.8
TT9	1990	1990	1990	1990	1990	1990	1990	1990
TTD	3560	3000	2750	2500	2250	2000	1427	759
WAS/WAP	0.0497	0.0430	0.0418	0.0405	0.0392	0.0378	0.0345	0.0302
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2308	2201	2093	1976	1678	1232
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	9.92	8.67	8.16	7.65	7.15	6.64	5.42	3.52

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ALT	25000	WASIZE	640	PT2/PT2P	1.000	WBL3		Q=
MO	0.70	PAM	5.5	PT2	5.6	WBL4		C=
VA KTS	420	TAM	430	TT2	433	HPEXT		500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	24584	23041	22314	21559	20746	19831	17335	14157
FGT	26391	24848	24122	23366	22543	21638	19143	16166
WAT	286	286	286	286	286	286	286	286
WFT	44963	35995	32592	29645	26524	23771	16514	11079
TSFC	1.813	1.562	1.461	1.367	1.277	1.193	0.976	0.771
BPR	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.34
WAT2	684	684	684	684	684	684	684	684
N1	5956	5956	5956	5956	5956	5956	5956	5989
N2	7448	7448	7448	7448	7448	7448	7448	7457
PT3D	16.6	16.6	16.6	16.6	16.6	16.6	16.6	17.7
PT4	74.1	74.1	74.1	74.1	74.1	74.1	74.1	77.2
TT3D	627	627	627	627	627	627	627	635
TT4	997	997	997	997	997	997	997	1011
PT9	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.9
PTD	14.5	14.9	15.0	15.1	15.2	15.4	15.7	16.4
TT9	1902	1902	1902	1902	1902	1902	1902	1902
TTD	3560	3000	2750	2500	2250	2000	1316	635
WAS/WAP	0.0514	0.0484	0.0470	0.0455	0.0441	0.0425	0.0380	0.0329
VENG	1928	1929	1929	1928	1928	1928	1928	1928
VDUCT	2617	2407	2307	2203	2093	1976	1617	1128
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.95	8.79	8.23	7.72	7.20	6.68	5.20	3.28

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DOWNGRADED AT 3 YEAR INTERVALS;
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DOD DIR 5200.10

ALT	25000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.40	PAM	5.4	PT2	6.1	WBL4	0.
VA KTS	241	TAM	430	TT2	444	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	23754	24001	23183	22351	21439	20502	17665	14370
FGT	29642	27991	27070	26218	25327	24389	21552	18254
MAT	308	308	308	308	308	308	308	308
WFT	48083	38906	35249	31878	28726	25768	18547	12283
TSFC	1.867	1.621	1.520	1.428	1.340	1.257	1.050	0.855
BPR	1.19	1.35	1.34	1.35	1.35	1.35	1.35	1.36
WAT2	686	686	686	686	686	686	686	686
N1	6045	6045	6045	6045	6045	6045	6045	6073
N2	7561	7561	7561	7561	7561	7561	7561	7562
PT3D	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.7
PT4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	83.1
TT3D	662	662	662	662	662	662	662	691
TT4	1023	1023	1023	1023	1023	1023	1023	1037
PT9	14.8	14.8	14.8	14.8	14.8	14.8	14.8	15.2
PTD	15.8	16.2	16.5	16.5	16.6	16.7	17.1	18.0
TT9	1951	1951	1951	1951	1951	1951	1951	1951
TTD	3560	3000	2750	2500	2250	2000	1330	651
WAS/WAP	0.0509	0.0480	0.0466	0.0452	0.0438	0.0422	0.0379	0.0329
VENG	1951	1951	1951	1951	1951	1951	1951	1951
VDUCT	2617	2407	2307	2203	2092	1976	1621	1141
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.79	8.62	8.11	7.61	7.10	6.59	5.16	3.28

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ALT	25000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.80	PAM	5.5	PT2	6.1	WBL4	0.
VA KTS	482	TAM	430	TT2	485	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	31625	29112	27941	26731	25473	24154	20493	16094
FGT	41446	39929	37758	36548	35290	33971	30300	25511
MAT	389	389	389	389	389	389	389	389
WFT	69021	68610	66019	59757	55818	52128	41663	29554
TSFC	1.498	1.470	1.475	1.487	1.467	1.430	1.354	0.985
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
WAT2	663	663	663	663	663	663	663	663
N1	9971	9971	9971	9971	9971	9971	9971	9006
N2	7765	7765	7765	7765	7765	7765	7765	7775
PT3D	23.5	23.5	23.5	23.5	23.5	23.5	23.5	25.5
PT4	104.3	104.3	104.3	104.3	104.3	104.3	104.3	114.7
TT3D	690	690	690	690	690	690	690	700
TT4	1080	1080	1080	1080	1080	1080	1080	1094
PT9	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.6
PTD	20.8	21.2	21.6	21.6	21.7	21.9	22.2	23.6
TT9	1996	1996	1996	1996	1996	1996	1996	1996
TTD	3560	3000	2750	2500	2250	2000	1375	700
WAS/WAP	0.0488	0.0460	0.0447	0.0434	0.0420	0.0406	0.0368	0.0322
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2407	2307	2203	2093	1976	1647	1194
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	9.43	8.24	7.76	7.28	6.81	6.32	5.05	3.29

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ALT	25000	WASIZE	640	PT2/PT2P	0.997	WBL3	0.
MO	1.10	PAM	5.5	PT2	11.6	WBL4	0.
VA KTS	662	TAM	430	TT2	534	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	38848	35365	33749	32081	30358	28541	23819	18007
FGT	55995	52412	50796	49128	47403	45588	40866	35054
MAT	491	491	491	491	491	491	491	491
WFT	75015	60478	54596	49112	44108	39350	29046	19110
TSFC	1.931	1.710	1.610	1.531	1.453	1.379	1.219	1.061
BPR	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.37
WAT2	630	630	630	630	630	630	630	630
N1	5826	5826	5826	5826	5826	5826	5826	5875
N2	7917	7917	7917	7917	7917	7917	7917	7941
PT3D	29.2	29.2	29.2	29.2	29.2	29.2	29.2	30.6
PT4	129.0	129.0	129.0	129.0	129.0	129.0	129.0	134.1
TT3D	728	728	728	728	728	728	728	746
TT4	1132	1132	1132	1132	1132	1132	1132	1148
PT9	23.5	23.5	23.5	23.5	23.5	23.5	23.5	24.3
PTD	25.6	26.2	26.4	26.6	26.8	27.0	27.5	29.4
TT9	1993	1993	1993	1993	1993	1993	1993	1992
TTD	3560	3000	2750	2500	2250	2000	1409	760
WAS/WAP	0.0486	0.0459	0.0427	0.0414	0.0401	0.0387	0.0352	0.0308
VENG	1972	1972	1972	1972	1972	1972	1972	1971
VDUCT	2617	2407	2307	2203	2093	1976	1667	1216
AJCOE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCOD	9.71	8.57	8.07	7.57	7.07	6.56	5.32	3.43

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ALT	25000	WASIZE	640	PT2/PT2P	0.991	WBL3	0.
MO	1.20	PAM	5.5	PT2	13.1	WBL4	0.
VA KTS	722	TAM	430	TT2	554	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	41808	37881	36059	34181	32240	30197	25016	18507
FGT	62002	58075	56253	54375	52434	50391	45210	38761
MAT	533	533	533	533	533	533	533	533
WFT	81416	65450	58979	52937	47430	42192	31090	20134
TSFC	1.967	1.728	1.636	1.549	1.471	1.397	1.243	1.088
WPR	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.42
WAT2	616	616	616	616	616	616	616	616
N1	5761	5761	5761	5761	5761	5761	5761	5808
N2	7967	7967	7967	7967	7967	7967	7967	7993
PT3D	31.7	31.7	31.7	31.7	31.7	31.7	31.7	33.C
PT4	137.3	137.3	137.3	137.3	137.3	137.3	137.3	142.9
TT3D	743	743	743	743	743	743	743	753
TT4	1150	1150	1150	1150	1150	1150	1150	1166
PT9	24.9	24.5	24.9	24.5	24.9	24.9	24.9	25.6
PTD	27.6	28.2	28.5	28.7	29.0	29.2	29.7	31.6
TT9	1991	1991	1991	1991	1991	1991	1991	1992
TTD	3560	3000	2750	2500	2250	2000	1422	783
WAS/WAP	0.0459	0.0432	0.0420	0.0407	0.0394	0.0380	0.0346	0.0302
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2308	2203	2093	1976	1675	1227
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCOD	9.91	8.75	8.23	7.72	7.21	6.69	5.46	3.55

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ALT	25000	WASIZE	640	PT2/PT2P	0.985	WBL3	0.
MO	1.30	PAM	5.5	PT2	14.9	WBL4	0.
VA KTS	783	TAM	430	TT2	575	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	43031	40815	38559	36450	34250	31946	26254	18836
FGT	68843	66408	62352	60232	58042	55738	50046	42726
MAT	579	579	579	579	579	579	579	579
WFT	88585	70979	63831	57152	51063	45272	33276	21116
TSFC	1.966	1.748	1.655	1.568	1.491	1.417	1.267	1.115
BPR	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.48
WAT2	602	602	602	602	602	602	602	602
N1	5685	5685	5685	5685	5685	5685	5685	5730
N2	8018	8018	8018	8018	8018	8018	8018	8041
PT3D	34.3	34.3	34.3	34.3	34.3	34.3	34.3	35.8
PT4	145.6	145.6	145.6	145.6	145.6	145.6	145.6	151.5
TT3D	758	758	758	758	758	758	758	769
TT4	1167	1167	1167	1167	1167	1167	1167	1183
PT9	26.4	26.4	26.4	26.4	26.6	26.4	26.4	27.4
PTD	29.7	30.4	30.7	31.0	31.2	31.5	32.0	34.2
TT9	1992	1992	1992	1992	1992	1992	1992	1991
TTD	3560	3000	2750	2500	2250	2000	1436	789
WAS/WAP	0.0452	0.0425	0.0413	0.0400	0.0386	0.0373	0.0340	0.0296
VENG	1971	1971	1971	1971	1971	1971	1971	1971
VDUCT	2617	2407	2308	2203	2093	1976	1685	1239
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	10.18	8.98	8.45	7.92	7.39	6.86	5.62	3.67

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.40	PAM	3.7	PT2	3.7	WBL4	0.
VA KTS	229	TAM	390	TT2	403	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	15552	14509	14016	13500	12957	12382	10460	8278
FGT	17886	16843	16350	15834	15291	14716	12774	10612
MAT	194	194	194	194	194	194	194	194
WFT	30263	24308	21975	19782	17733	15832	10765	6728
TSFC	1.946	1.675	1.568	1.465	1.369	1.279	1.031	0.812
BPR	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.43
WAT2	685	685	685	685	685	685	685	685
N1	5748	5748	5748	5748	5748	5748	5748	5769
N2	7063	7063	7063	7063	7063	7063	7063	7091
PT3D	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.7
PT4	47.0	47.0	47.0	47.0	47.0	47.0	47.0	48.3
TT3D	574	574	574	574	574	574	574	581
TT4	919	919	919	919	919	919	919	932
PT9	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.8
PTD	8.7	9.0	9.1	9.2	9.3	9.4	9.7	10.3
TT9	1760	1760	1760	1760	1760	1760	1760	1760
TTD	3560	3000	2750	2500	2250	2000	1264	581
WAS/WAP	0.0529	0.0497	0.0482	0.0467	0.0451	0.0435	0.0382	0.0325
VENG	1856	1856	1856	1856	1856	1856	1856	1856
VDUCT	2617	2407	2307	2203	2092	1976	1581	1078
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	11.40	9.97	9.35	8.75	8.14	7.54	5.69	3.49

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.63	PAM	3.3	PT2	4.2	WBL4	0.
VA KTS	344	TAM	390	112	419	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	17634	16915	15711	15084	14427	13733	11501	8368
FGT	31523	29734	29430	29003	28365	27652	25425	22487
WAT	217	217	217	217	217	217	217	217
WFT	33877	27257	24645	22256	19392	17840	12429	7540
TSFC	1.724	1.671	1.569	1.476	1.386	1.302	1.061	0.885
BPR	1.19	1.39	1.39	1.39	1.39	1.39	1.39	1.40
WAT2	684	684	684	684	684	684	684	684
N1	5847	5847	5847	5847	5847	5847	5847	5871
N2	7236	7236	7236	7236	7236	7236	7236	7256
PT3D	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.5
PT4	54.3	54.3	54.3	54.3	54.3	54.3	54.3	55.8
TT3D	599	599	599	599	599	599	599	607
TT4	957	957	957	957	957	957	957	970
PT9	9.6	9.6	9.6	9.6	9.6	9.6	9.6	10.2
PTD	10.9	10.8	10.7	10.6	10.9	11.0	11.3	12.0
TT9	1834	1834	1834	1834	1834	1834	1834	1834
TTD	3560	3000	2750	2500	2250	2000	1250	607
WAS/WAP	0.0521	0.0490	0.0476	0.0461	0.0446	0.0430	0.0381	0.0327
VENG	1894	1894	1894	1894	1894	1894	1894	1894
VDUCT	2617	2407	2307	2203	2092	1976	1597	1102
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.72	9.41	8.84	8.27	7.71	7.14	5.47	3.41

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ALT	36150	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.90	PAM	3.3	PT2	5.6	WBL4	0.
VA KTS	516	TAM	390	172	454	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	23425	21931	20692	19744	18850	17811	14902	11471
FGT	40922	39029	38169	37261	36297	35308	32391	29068
WAT	277	277	277	277	277	277	277	277
WFT	43489	35228	31925	28881	26044	23276	16669	11323
TSFC	1.856	1.636	1.546	1.463	1.385	1.312	1.119	0.987
BPR	1.16	1.36	1.36	1.36	1.36	1.36	1.36	1.37
WAT2	685	685	685	685	685	685	685	685
N1	6101	6101	6101	6101	6101	6101	6101	6128
N2	7615	7615	7615	7615	7615	7615	7615	7621
PT3D	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.9
PT4	73.2	73.2	73.2	73.2	73.2	73.2	73.2	75.2
TT3D	654	654	654	654	654	654	654	663
TT4	1042	1042	1042	1042	1042	1042	1042	1058
PT9	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.8
PTD	14.2	14.5	14.7	14.9	14.9	15.1	15.3	16.2
TT9	1997	1997	1997	1997	1997	1997	1997	1997
TTD	3560	3000	2750	2500	2250	2000	1241	663
WAS/WAP	0.0506	0.0477	0.0463	0.0448	0.0433	0.0418	0.0378	0.0329
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2617	2407	2307	2203	2093	1976	1627	1152
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.80	8.64	8.13	7.62	7.12	6.60	5.20	3.42

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ALT	36150	WASIZE	640	PT2/PT2P	0.991	WBL3	0.
MO	1.20	PAM	3.3	PT2	7.9	WBL4	0.
VA KTS	688	TAM	390	172	503	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	29434	28080	25750	24484	23135	21801	18021	13541
FGT	42468	39812	38583	37317	34007	34633	30906	26373
WAT	355	355	355	355	355	355	355	355
WFT	56791	44285	40051	36114	32506	29083	21379	14165
TSFC	1.949	1.641	1.555	1.471	1.403	1.334	1.141	1.048
BPR	1.36	1.36	1.36	1.36	1.36	1.36		1.36
WAT2	691	691	691	691	691	691	0.	691
N1	5910	5910	5910	5910	5910	5910	5910	5946
N2	7791	7791	7791	7791	7791	7791	7791	7811
PT3D	21.1	21.1	21.1	21.1	21.1	21.1	21.1	22.0
PT4	94.3	94.3	94.3	94.3	94.3	94.3	94.3	97.5
TT3D	701	701	701	701	701	701	701	712
TT4	1097	1097	1097	1097	1097	1097	1097	1112
PT9	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.8
PTD	18.5	18.9	19.1	19.3	19.4	19.6	19.9	21.2
TT9	1995	1995	1995	1995	1995	1995	1995	1994
TTD	3560	3000	2750	2500	2250	2000	1384	712
WAS/WAP	0.0490	0.0453	0.0440	0.0426	0.0413	0.0399	0.0362	0.0316
VENG	1973	1973	1973	1973	1973	1973	1973	1973
VDUCT	2617	2407	2307	2203	2093	1976	1653	1193
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.69	8.51	8.01	7.52	7.02	6.52	5.23	3.37

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ALT	36150	WASIZE	640	PT2/PT2P	0.971	WBL3	0.
MO	1.50	PAM	3.3	PT2	11.7	WBL4	0.
VA KTS	869	TAM	390	172	566	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	37664	33851	32088	30273	28401	26436	21504	15213
FGT	48479	46766	45002	43188	49316	47150	42418	36127
WAT	463	463	463	463	463	463	463	463
WFT	71094	56998	51282	45943	41077	36449	26706	18095
TSFC	1.858	1.684	1.590	1.491	1.446	1.379	1.242	1.117
BPR	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.48
WAT2	608	608	608	608	608	608	608	608
N1	5705	5705	5705	5705	5705	5705	5705	5749
N2	7967	7967	7967	7967	7967	7967	7967	7992
PT3D	27.1	27.1	27.1	27.1	27.1	27.1	27.1	28.3
PT4	116.5	116.5	116.5	116.5	116.5	116.5	116.5	121.2
TT3D	748	748	748	748	748	748	748	759
TT4	1156	1156	1156	1156	1156	1156	1156	1177
PT9	21.2	21.2	21.2	21.2	21.2	21.2	21.2	22.0
PTD	23.4	23.9	24.1	24.3	24.6	24.8	25.2	27.0
TT9	1994	1994	1994	1994	1994	1994	1994	1993
TTD	3560	3000	2750	2500	2250	2000	1427	759
WAS/WAP	0.0455	0.0428	0.0415	0.0401	0.0390	0.0376	0.0342	0.0298
VENG	1973	1973	1973	1973	1973	1973	1973	1972
VDUCT	2617	2407	2307	2203	2093	1976	1677	1231
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.36	9.13	8.59	8.05	7.51	6.97	5.69	3.69

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ALT	36150	WASIZE	640	PT2/PT2P	0.945	WBL3	0.
MO	1.80	PAM	3.3	PT2	17.6	WBL4	0.
VA KTS	1032	TAM	390	172	643	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	48013	42503	39965	37362	34648	31947	25550	16696
FGT	80732	75223	72694	70081	67388	64567	59270	49416
WAT	604	604	604	604	604	604	604	604
WFT	91835	72736	65062	57867	51378	45128	33230	19528
TSFC	1.913	1.711	1.628	1.549	1.482	1.417	1.301	1.194
BPR	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.65
WAT2	555	555	555	555	555	555	555	555
N1	5497	5497	5497	5497	5497	5497	5497	5523
N2	8109	8109	8109	8109	8109	8109	8109	8143
PT3D	36.1	36.1	36.1	36.1	36.1	36.1	36.1	37.5
PT4	143.0	143.0	143.0	143.0	143.0	143.0	143.0	148.4
TT3D	812	812	812	812	812	812	812	821
TT4	1221	1221	1221	1221	1221	1221	1221	1237
PT9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	26.8
PTD	30.9	31.6	31.9	32.3	32.6	32.8	33.3	35.6
TT9	1993	1993	1993	1991	1993	1993	1993	1993
TTD	3560	3000	2750	2500	2250	2000	1485	821
WAS/WAP	0.0430	0.0404	0.0392	0.0379	0.0366	0.0353	0.0323	0.0280
VENG	1972	1972	1972	1972	1972	1972	1972	1972
VDUCT	2617	2408	2308	2203	2093	1976	1710	1281
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	10.99	9.33	8.78	8.22	7.67	7.12	5.95	3.97

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ALT	45000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.53	PAM	2.1	PT2	2.1	WBL4	0.
VA KTS	287	TAM	390	172	409	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	10239	9533	9207	8852	8687	8695	6707	5250
FGT	12250	11544	11213	10868	10498	10106	8714	7261
WAT	134	134	134	134	134	134	134	134
WFT	22184	17484	15849	14213	12748	11289	7416	4532
TSFC	2.167	1.864	1.722	1.605	1.502	1.395	1.106	0.863
BPR	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.55
WAT2	685	685	685	685	685	685	685	685
N1	5900	5900	5900	5900	5900	5900	5900	5911
N2	6992	6992	6992	6992	6992	6992	6992	7001
PT3D	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
PT4	31.2	31.2	31.2	31.2	31.2	31.2	31.2	32.1
TT3D	569	569	569	569	569	569	569	576
TT4	922	922	922	922	922	922	922	933
PT9	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.8
PTD	5.4	5.5	5.6	5.7	5.8	5.9	6.1	6.5
TT9	1797	1797	1797	1797	1797	1797	1797	1797
TTD	3560	3000	2750	2500	2250	2000	1237	576
WAS/WAP	0.0529	0.0497	0.0482	0.0466	0.0450	0.0433	0.0397	0.0321
VENG	1875	1875	1875	1875	1875	1875	1875	1875
VDUCT	2616	2407	2307	2202	2092	1976	1565	1076
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	13.23	11.91	10.77	10.05	9.33	8.61	6.36	3.89

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ALT	45000	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.80	PAM	2.1	PT2	3.3	WBL4	0.
VA KTS	459	TAM	390	TT2	440	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	13664	12411	11919	11410	10876	10315	8760	6535
FGT	17497	16404	15912	15402	14869	14308	12593	10532
WAT	166	166	166	166	166	166	166	166
WFT	26351	21231	19200	17336	15580	13936	9867	6316
TSFC	1.997	1.911	1.811	1.713	1.615	1.551	1.146	0.926
BPR	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.47
WAT2	685	685	685	685	685	685	685	685
N1	6025	6025	6025	6025	6025	6025	6025	6045
N2	7349	7349	7349	7347	7349	7349	7349	7389
PT3D	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.3
PT4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	42.7
TT3D	620	620	620	620	620	620	620	628
TT4	1030	1030	1000	1000	1000	1000	1000	1013
PT9	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.8
PTD	7.5	7.7	7.8	7.9	8.0	8.1	8.3	8.9
TT9	1941	1941	1941	1941	1941	1941	1941	1940
TTD	3560	3000	2750	2500	2250	2000	1700	628
WAS/WAP	0.0414	0.0481	0.0469	0.0455	0.0439	0.0424	0.0377	0.0325
VENG	1946	1946	1946	1946	1946	1946	1946	1946
VDUCT	2617	2407	2307	2203	2092	1976	1638	1121
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.41	10.60	9.39	8.78	8.18	7.57	5.84	3.64

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ALT	45000	WASIZE	640	PT2/PT2P	0.991	WBL3	0.
MO	1.20	PAM	2.1	PT2	5.2	WBL4	0.
VA KTS	684	TAM	390	TT2	492	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	19148	17443	16844	15916	14964	14069	11586	8576
FGT	27568	25863	25264	24220	23316	22469	19986	16976
WAT	233	233	233	233	233	233	233	233
WFT	36240	29728	26407	23787	21879	19599	13990	9078
TSFC	1.631	1.576	1.567	1.534	1.629	1.358	1.199	1.059
BPR	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.47
WAT2	651	651	651	651	651	651	651	651
N1	5902	5902	5902	5902	5902	5902	5902	5929
N2	7696	7696	7696	7696	7696	7696	7696	7729
PT3D	13.2	13.2	13.2	13.2	13.2	13.2	13.	13.8
PT4	60.2	60.2	60.2	60.2	60.2	60.2	60.2	62.1
TT3D	691	691	691	691	691	691	691	701
TT4	1088	1088	1088	1088	1038	1088	1088	1103
PT9	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.3
PTD	11.4	11.6	11.8	11.9	12.0	12.1	12.3	13.2
TT9	2099	2099	2099	2099	2099	2099	2099	1999
TTD	3560	3000	2750	2500	2250	2000	1575	701
WAS/WAP	0.0482	0.0454	0.0441	0.0427	0.0413	0.0399	0.0361	0.0314
VENG	1975	1975	1975	1975	1975	1975	1975	1975
VDUCT	2617	2407	2307	2203	2093	1976	1667	1184
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.44	9.23	8.69	8.13	7.58	7.03	5.61	3.59

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ALT	45000	WASIZE	640	PT2/PT2P	0.973	WBL3	0.
MO	1.59	PAM	2.1	PT2	7.7	WBL4	0.
VA KTS	863	TAM	390	TT2	566	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	24426	21937	20784	19597	18372	17083	13721	9613
FGT	38117	35628	34476	33289	32063	30775	27482	23305
WAT	303	303	303	303	303	303	303	303
WFT	47724	37618	33808	31252	27510	23727	17346	10858
TSFC	1.925	1.715	1.627	1.544	1.470	1.401	1.258	1.129
BPR	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.55
WAT2	608	608	608	608	608	608	608	608
N1	5681	5681	5681	5681	5681	5681	5681	5719
N2	7882	7882	7882	7882	7882	7882	7882	7913
PT3D	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.8
PT4	74.2	74.2	74.2	74.2	74.2	74.2	74.2	77.1
TT3D	739	739	739	739	739	739	739	749
TT4	1148	1148	1148	1148	1148	1148	1148	1163
PT9	13.5	13.5	13.5	13.5	13.5	13.5	13.5	14.0
PTD	14.6	14.8	14.9	15.1	15.3	15.4	15.7	16.9
TT9	1539	1399	1555	1999	1999	1999	1999	1998
TTD	3560	3000	2750	2500	2250	2000	1610	749
WAS/WAP	0.0457	0.0430	0.0417	0.0404	0.0390	0.0376	0.0341	0.0296
VENG	1975	1975	1975	1975	1975	1975	1975	1974
VDUCT	2617	2407	2308	2203	2093	1976	1672	1223
AJCDF	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.19	9.83	9.24	8.65	8.06	7.47	6.06	3.91

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ALT	45000	WASIZE	640	PT2/PT2P	0.943	WBL3	0.
MO	1.80	PAM	2.1	PT2	11.7	WBL4	0.
VA KTS	1037	TAM	390	TT2	643	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	31223	27619	25951	24244	22476	20622	16415	10320
FGT	52436	49029	47365	45658	43890	42036	37827	31934
WAT	395	395	395	395	395	395	395	395
WFT	60687	47991	42848	38259	33787	29631	21616	12737
TSFC	1.944	1.738	1.653	1.571	1.503	1.437	1.317	1.211
BPR	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.73
WAT2	555	555	555	555	555	555	555	555
N1	9467	9467	9467	9467	9467	9467	9467	9459
N2	9910	9910	8010	8010	8010	8010	8010	8047
PT3D	22.8	22.8	22.8	22.8	22.8	22.8	22.8	23.7
PT4	91.1	91.1	91.1	91.1	91.1	91.1	91.1	94.9
TT3D	805	805	805	805	805	805	805	813
TT4	1213	1213	1213	1213	1213	1213	1213	1229
PT9	16.5	16.5	16.5	16.5	16.5	16.5	16.5	17.0
PTD	19.2	19.7	19.9	20.2	20.4	20.6	20.9	22.3
TT9	1998	1998	1998	1998	1998	1998	1998	1998
TTD	3560	3000	2750	2500	2250	2000	1628	813
WAS/WAP	0.0431	0.0405	0.0392	0.0380	0.0366	0.0353	0.0322	0.0279
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2617	2408	2308	2203	2093	1976	1704	1274
AJCDF	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.31	9.99	9.35	8.74	8.15	7.55	6.28	4.19

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ALT	45000	WASIZE	640	PT2/PT2P	0.925	WBL3	0.
MO	2.00	PAM	2.1	PT2	15.6	WBL4	0.
VA KTS	1147	TAM	390	TT2	702	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	36414	32069	29984	27936	25921	23903	18619	11999
FGT	64421	60277	58191	56043	53928	51911	46826	39651
WAT	469	469	469	469	469	469	469	469
WFT	70567	55473	49623	45735	38596	33680	25037	14419
TSFC	1.927	1.730	1.648	1.571	1.496	1.446	1.345	1.260
BPR	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
WAT2	515	515	515	515	515	515	515	515
N1	9425	9425	9425	9425	9425	9425	9425	9460
N2	8066	8066	8066	8066	8066	8066	8066	8103
PT3D	28.9	28.9	28.9	28.8	28.8	28.9	28.8	29.9
PT4	107.3	107.3	107.3	107.3	107.3	107.3	107.3	111.0
TT3D	862	862	862	862	862	862	862	876
TT4	1269	1269	1249	1269	1269	1269	1269	1284
PT9	19.3	19.3	19.3	19.3	19.3	19.3	19.3	20.0
PTD	24.7	25.3	25.5	25.8	26.0	26.2	26.5	28.1
TT9	1998	1998	1998	1998	1998	1998	1998	1998
TTD	3560	3000	2750	2500	2250	2000	1540	876
WAS/WAP	0.0413	0.0388	0.0376	0.0363	0.0351	0.0338	0.0311	0.0270
VENG	1974	1974	1974	1974	1974	1974	1974	1974
VDUCT	2617	2408	2308	2203	2093	1976	1735	1317
AJCDF	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.48	9.24	8.69	8.14	7.61	7.08	6.00	4.11

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ALT	45000	WASIZE	640	PT2/PT2P	0.927	WBL3	0.
MO	1.13	PAM	1.3	PT2	2.8	WBL4	0.
VA KTS	631	TAM	390	TT2	484	HPEXT	500.0

MAXTHR	MAX D/H						MIN D/H NOT LIT
FNT	10616	9686	9252	8806	8341	7853	6371	4106
FGT	14938	14066	13634	13189	12722	12235	10752	9083
WAT	132	132	132	132	132	132	132	132
WFT	21799	17397	15681	14086	12617	11235	7868	4004
TSFC	2.053	1.796	1.695	1.600	1.513	1.431	1.232	1.064
BPR	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.54
WAT2	663	663	663	663	663	663	663	663
N1	5954	5954	5954	5954	5954	5954	5954	5976
N2	7450	7450	7450	7450	7450	7450	7450	7496
PT3D	6.8	6.8	6.8	6.8	6.9	6.8	6.8	7.1
PT4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	33.4
TT3D	657	657	657	657	657	657	657	666
TT4	1052	1052	1052	1052	1052	1052	1052	1066
PT9	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.1
PTD	5.6	5.8	5.9	6.0	6.1	6.2	6.2	6.6
TT9	2007	2007	2007	2007	2007	2007	2007	2006
TTD	3560	3000	2750	2500	2250	2000	1326	666
WAS/WAP	0.0496	0.0464	0.0451	0.0436	0.0422	0.0407	0.0363	0.0314
VENG	1978	1979	1978	1979	1979	1979	1979	1978
VDUCT	2617	2407	2307	2203	2092	1976	1619	1156
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	12.98	11.97	10.29	9.61	8.93	8.25	6.59	4.09

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DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	55000	WASIZE	640	PT2/PT2P	0.991	WBL3	0.	
MO	1.20	PAM	1.3	PT2	3.2	WBL4	0.	
VA KTS	698	TAM	390	TT2	502	HPEXT	500.0	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	11529	10487	10002	9509	8978	8430	6856	4949
FGT	16716	15693	15208	14707	14186	13637	12063	10176
WAT	144	144	144	144	144	144	144	144
WFT	22036	18137	16588	14913	13345	11933	9469	6288
TSFC	1.947	1.754	1.655	1.579	1.489	1.412	1.237	1.094
BPR	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
WAT2	651	651	651	651	651	651	651	651
N1	5883	5883	5883	5883	5883	5883	5883	5909
N2	7530	7530	7530	7530	7530	7530	7530	7574
PT30	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.8
PT4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	36.5
TT30	674	674	674	674	674	674	674	683
TT4	1074	1074	1074	1074	1074	1074	1074	1089
PT9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.7
PTD	6.7	6.6	6.6	6.5	6.6	6.7	6.9	7.4
TT9	2035	2005	2004	2005	2005	2005	2005	2005
TTD	3560	3000	2750	2500	2250	2000	1750	1500
WAS/WAP	0.0445	0.0458	0.0462	0.0429	0.0414	0.0359	0.0338	0.0309
VENG	1978	1978	1978	1978	1978	1978	1978	1978
VDUCT	2617	2607	2307	2203	2093	1976	1693	1169
AJCDE	5.21	5.21	5.2	5.21	5.21	5.21	5.21	5.21
AJCDD	12.19	10.83	10.16	9.45	8.83	8.16	6.42	4.65

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ALT	55000	WASIZE	640	PT2/PT2P	0.931	WBL3	0.	
MO	1.50	PAM	1.3	PT2	4.7	WBL4	0.	
VA KTS	843	TAM	390	TT2	566	HPEXT	500.0	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	14761	13227	12523	11757	11047	10256	8160	5537
FGT	23227	21713	21010	20287	19533	18740	16666	14022
WAT	188	188	188	188	188	188	188	188
WFT	29776	25669	23827	21927	20176	18352	14702	10431
TSFC	2.015	1.749	1.695	1.626	1.528	1.453	1.298	1.160
BPR	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71
WAT2	609	609	609	609	609	609	609	609
N1	5961	5961	5961	5961	5961	5961	5961	5974
N2	7702	7702	7702	7702	7702	7702	7702	7757
PT30	9.7	9.7	9.7	9.7	9.7	9.7	9.7	10.1
PT4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	45.2
TT30	724	724	724	724	724	724	724	733
TT4	1133	1133	1133	1133	1133	1133	1133	1149
PT9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.2
PTD	7.8	8.1	7.2	6.3	8.4	8.5	8.7	9.5
TT9	2035	2005	2005	2005	2005	2005	2005	2004
TTD	3560	3000	2750	2500	2250	2000	1750	1500
WAS/WAP	0.0443	0.0432	0.0418	0.0405	0.0331	0.0376	0.0319	0.0282
VENG	1978	1978	1978	1978	1978	1978	1978	1978
VDUCT	2617	2607	2307	2203	2093	1976	1684	1210
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	13.19	11.52	10.79	10.07	9.35	8.64	6.92	5.20

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ALT	55000	WASIZE	640	PT2/PT2P	0.945	WBL3	0.	
MO	1.40	PAM	1.3	PT2	7.2	WBL4	0.	
VA KTS	1032	TAM	390	TT2	643	HPEXT	500.0	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	19037	16823	15797	14743	13691	12502	9929	6120
FGT	25359	23085	22078	21014	19923	18775	15702	11852
WAT	245	245	245	245	245	245	245	245
WFT	38131	30144	26894	23817	21083	18446	13762	7610
TSFC	2.033	1.792	1.702	1.615	1.544	1.475	1.340	1.244
BPR	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85
WAT2	555	555	555	555	555	555	554	555
N1	5428	5428	5428	5428	5428	5428	5428	5457
N2	7840	7840	7840	7840	7840	7840	7840	7877
PT30	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.8
PT4	54.0	54.0	54.0	54.0	54.0	54.0	54.0	55.9
TT30	793	793	793	793	793	793	793	800
TT4	1201	1201	1201	1201	1201	1201	1201	1216
PT9	9.4	9.8	9.8	9.8	9.8	9.8	9.8	10.1
PTD	10.6	11.1	11.3	11.4	11.6	11.7	12.2	12.8
TT9	2034	2004	2004	2004	2004	2004	2004	2004
TTD	3560	3000	2750	2500	2250	2000	1467	850
WAS/WAP	0.0433	0.0406	0.0394	0.0391	0.0367	0.0353	0.0321	0.0276
VENG	1978	1978	1978	1978	1978	1978	1978	1977
VDUCT	2617	2608	2308	2203	2031	1976	1700	1764
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	12.79	11.19	10.49	9.79	9.10	8.42	6.94	4.59

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ALT	55000	WASIZE	640	PT2/PT2P	0.925	WBL3	0.	
MO	2.00	PAM	1.3	PT2	9.6	WBL4	0.	
VA KTS	1147	TAM	390	TT2	702	HPEXT	500.0	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	22439	19982	18384	17034	15676	14232	11240	6740
FGT	29283	27165	25968	24537	23159	21716	18734	14723
WAT	291	291	291	291	291	291	291	291
WFT	44253	34724	30859	27307	24061	20941	15115	8672
TSFC	1.967	1.764	1.681	1.601	1.535	1.471	1.348	1.287
BPR	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.90
WAT2	515	515	515	515	515	515	515	519
N1	5390	5390	5390	5390	5390	5390	5390	5420
N2	7919	7919	7919	7919	7919	7919	7919	7980
PT30	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.6
PT4	64.1	64.1	64.1	64.1	64.1	64.1	64.1	66.3
TT30	853	853	853	853	853	853	853	865
TT4	1258	1258	1258	1258	1258	1258	1258	1273
PT9	11.6	11.6	11.6	11.6	11.6	11.6	11.6	12.0
PTD	14.3	14.6	14.8	15.0	15.1	15.3	15.5	16.5
TT9	2003	2003	2003	2003	2003	2003	2003	2002
TTD	3560	3000	2750	2500	2250	2000	1721	1000
WAS/WAP	0.0415	0.0389	0.0377	0.0364	0.0351	0.0338	0.0310	0.0269
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2617	2408	2308	2203	2093	1976	1710	1310
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	11.46	10.08	9.47	8.85	8.25	7.65	6.47	4.40

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ALT	55000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.	
MO	2.20	PAM	1.3	PT2	12.3	WBL4	0.	
VA KTS	1262	TAM	390	TT2	767	HPEXT	500.0	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	26229	22713	21102	19442	17715	15952	12771	7176
FGT	33819	45321	43712	42053	40345	38562	35381	29986
WAT	342	342	342	342	342	342	342	342
WFT	50720	39597	35135	30926	27119	23471	17765	9874
TSFC	1.934	1.743	1.665	1.591	1.529	1.471	1.391	1.339
BPR	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.85
WAT2	474	474	474	474	474	474	474	474
N1	5340	5340	5340	5340	5340	5340	5340	5378
N2	7968	7968	7968	7968	7968	7968	7968	8014
PT30	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.8
PT4	75.8	75.8	75.8	75.8	75.8	75.8	75.8	78.5
TT30	920	920	920	920	920	920	920	927
TT4	1318	1318	1318	1318	1318	1318	1318	1333
PT9	13.6	13.6	13.6	13.6	13.6	13.6	13.6	14.1
PTD	19.3	19.7	19.8	20.0	20.2	20.3	20.5	21.6
TT9	2001	2001	2001	2001	2001	2001	2001	2001
TTD	3560	3000	2750	2500	2250	2000	1542	927
WAS/WAP	0.0197	0.0172	0.0360	0.0348	0.0336	0.0323	0.0300	0.0261
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2618	2408	2308	2203	2093	1977	1764	1359
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	9.96	8.80	8.29	7.78	7.27	6.76	5.87	4.11

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ALT	55000	WASIZE	640	PT2/PT2P	0.810	WBL3	0.	
MO	2.40	PAM	1.3	PT2	17.8	WBL4	0.	
VA KTS	1434	TAM	390	TT2	875	HPEXT	500.0	
MAXTHR	MAX D/H					MIN D/H NOT LIT		
FNT	31717	27046	24906	22715	20456	18126	15035	8240
FGT	43877	59206	57067	54876	52626	50286	47194	40501
WAT	428	428	428	429	428	428	428	428
WFT	60475	46787	41282	36106	31416	26937	21604	11971
TSFC	1.907	1.730	1.658	1.592	1.535	1.486	1.437	1.423
BPR	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.78
WAT2	412	412	412	412	412	412	412	412
N1	5274	5274	5274	5274	5274	5274	5274	5326
N2	8031	8031	8031	8031	8031	8031	8031	8044
PT30	32.8	32.8	32.8	32.8	32.8	32.8	32.8	33.6
PT4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	101.4
TT30	1035	1035	1035	1035	1035	1035	1035	1043
TT4	1418	1418	1418	1418	1418	1418	1418	1434
PT9	17.4	17.4	17.4	17.4	17.4	17.4	17.4	18.1
PTD	29.7	30.1	30.2	30.4	30.5	30.7	30.9	32.1
TT9	1999	1999	1998	1998	1998	1998	1998	1998
TTD	3560	3000	2750	2500	2250	2000	1686	1043
WAS/WAP	0.0171	0.0348	0.0337	0.0326	0.0314	0.0302	0.0287	0.0252
VENG	1975	1975	1975	1975	1975	1975	1975	1975
VDUCT	2618	2408	2308	2204	2093	1977	1820	1441
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.59	7.11	6.72	6.32	5.93	5.52	4.99	3.81

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	65000	WASIZE		440	PT2/PT2P	0.846	WBL3	0.
MO	2.20	PAM		0.8	PT2	26.1	WBL4	0.
VA KTS	1561	TAM		390	TT2	454	HPEXT	500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	16091	20611	27814	25171	22652	13427	16798	8620
FGT	73972	71285	69889	68645	63326	60501	57632	49794
MAT	431	503	503	503	503	503	503	503
WFT	43959	42641	45169	40283	34859	29587	24744	1 320
TSFC	1.694	1.731	1.655	1.600	1.550	1.507	1.475	1.693
BPR	1.73	1.78	1.74	1.74	1.74	1.75	1.78	1.76
WAT2	442	382	381	382	382	382	382	382
N1	5240	5240	5240	5240	5240	5240	5240	5240
N2	8131	8131	8131	8131	8131	8131	8131	8175
PT3D	41.1	41.5	41.9	41.5	41.9	41.9	41.9	42.9
PT4	114.5	116.3	116.0	116.0	116.0	116.9	119.0	120.4
TT3D	1117	1116	1116	1116	1116	1116	1116	1124
TT4	1491	1491	1491	1491	1491	1491	1491	1507
PT9	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.3
PTD	38.5	39.0	39.2	39.3	39.5	39.6	39.7	41.2
TT9	1997	1997	1997	1997	1997	1997	1997	1998
TTD	3560	3500	2750	2500	2250	2000	1750	1124
WAS/WAP	0.3455	0.0333	0.0322	0.0312	0.0301	0.0290	0.0278	0.0244
VENG	1975	1975	1975	1975	1975	1975	1975	1974
VDUCT	2657	2409	2308	2294	2096	1977	1958	1496
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	7.19	6.42	6.07	5.92	5.87	5.81	6.06	5.44

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ALT	65000	WASIZE		440	PT2/PT2P	0.962	WBL3	0.
MO	1.441	PAM		0.6	PT2	34.4	WBL4	0.
VA KTS	914	TAM		350	TT2	590	HPEXT	500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	9365	8335	7968	7392	6978	6342	4717	2685
FGT	15931	14672	14004	13519	13014	12478	10534	7208
MAT	127	127	127	127	127	127	127	127
WFT	22621	17526	15604	13772	12127	10580	6940	3507
TSFC	2.444	2.102	1.981	1.865	1.763	1.668	1.453	1.275
BPR	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
WAT2	591	591	591	591	591	591	591	591
N1	5505	5505	5505	5505	5505	5	5505	5505
N2	7408	7408	7408	7408	7408	7408	7408	7450
PT3D	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.0
PT4	26.5	26.5	26.5	26.5	26.5	26.5	26.5	27.3
TT3D	725	725	725	725	725	725	725	731
TT4	1131	1131	1131	1131	1131	1131	1131	1145
PT9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0
PTD	4.1	4.3	4.4	4.4	4.6	4.7	4.9	5.4
TT9	2014	2014	2014	2014	2014	2014	2014	2013
TTD	3560	3500	2750	2500	2250	2000	1750	731
WAS/WAP	0.3455	0.0426	0.0412	0.0398	0.0384	0.0369	0.0327	0.0280
VENG	1982	1982	1982	1982	1982	1982	1982	1982
VDUCT	2416	2407	2307	2202	2092	1976	1834	1209
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	18.34	15.73	14.41	13.51	12.42	11.37	9.79	5.97

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ALT	65000	WASIZE		440	PT2/PT2P	0.954	WBL3	0.
MO	1.42	PAM		0.8	PT2	34.9	WBL4	0.
VA KTS	975	TAM		350	TT2	616	HPEXT	500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	10314	9167	8609	8050	7472	6758	5213	3216
FGT	17416	16268	15730	15172	14593	13974	12334	10337
MAT	135	139	135	135	139	139	139	139
WFT	23519	18312	16101	14401	12684	11059	7491	4161
TSFC	2.282	2.002	1.894	1.798	1.698	1.612	1.437	1.295
BPR	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05
WAT2	573	573	573	573	573	573	573	573
N1	5436	5436	5436	5436	5436	5436	5436	5454
N2	7485	7485	7485	7485	7485	7485	7485	7525
PT3D	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.8
PT4	28.7	28.7	28.7	28.7	28.7	28.7	28.7	29.6
TT3D	750	750	750	750	750	750	750	757
TT4	1156	1156	1156	1156	1156	1156	1156	1173
PT9	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.4
PTD	4.7	4.9	5.0	5.1	5.3	5.4	5.6	6.1
TT9	2012	2013	2012	2013	2013	2013	2013	2012
TTD	3560	3500	2750	2500	2250	2000	1750	747
WAS/WAP	0.3445	0.0417	0.0404	0.0390	0.0376	0.0361	0.0323	0.0276
VENG	1982	1982	1982	1982	1982	1982	1982	1981
VDUCT	2417	2407	2307	2203	2093	1976	1662	1230
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	17.24	14.84	13.81	12.80	11.79	10.82	8.54	5.49

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ALT	65000	WASIZE		440	PT2/PT2P	0.965	WBL3	0.
MO	1.80	PAM		0.8	PT2	44.5	WBL4	0.
VA KTS	1032	TAM		390	TT2	663	HPEXT	500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	11355	10027	9410	8775	8111	7410	5734	3496
FGT	19963	18257	17445	17005	16241	15464	13946	11624
MAT	192	192	192	192	192	192	192	192
WFT	24157	19722	18036	16481	13761	11503	8043	4494
TSFC	2.127	1.997	1.900	1.797	1.628	1.553	1.414	1.315
BPR	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
WAT2	555	555	555	555	555	555	555	555
N1	5386	5386	5386	5386	5386	5386	5386	5404
N2	7552	7552	7552	7552	7552	7552	7552	7593
PT3D	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.7
PT4	31.2	31.2	31.2	31.2	31.2	31.2	31.2	32.2
TT3D	778	778	778	778	778	778	778	784
TT4	1182	1182	1182	1182	1182	1182	1182	1198
PT9	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.9
PTD	5.6	5.8	5.9	6.0	6.1	6.2	6.4	7.0
TT9	2012	2012	2012	2012	2012	2012	2012	2012
TTD	3560	3500	2750	2500	2250	2000	1452	764
WAS/WAP	0.0436	0.0408	0.0395	0.0382	0.0368	0.0353	0.0319	0.0272
VENG	1981	1981	1981	1981	1981	1981	1981	1981
VDUCT	2617	2408	2308	2203	2093	1976	1492	1252
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	14.42	13.79	12.86	11.93	11.03	10.15	8.24	5.34

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ALT	65000	WASIZE		440	PT2/PT2P	0.975	WBL3	0.
MO	2.03	PAM		0.8	PT2	64.0	WBL4	0.
VA KTS	1147	TAM		390	TT2	709	HPEXT	500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	13701	11964	11162	10335	9483	8584	6669	3802
FGT	24562	22905	22003	21183	20324	19426	17510	14643
MAT	180	180	180	180	180	180	180	180
WFT	27958	21966	19429	17126	15053	13059	9426	5109
TSFC	2.041	1.828	1.740	1.657	1.577	1.521	1.413	1.344
BPR	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05
WAT2	515	515	515	515	515	515	515	515
N1	5345	5345	5345	5345	5345	5345	5345	5367
N2	7672	7672	7672	7672	7672	7672	7672	7709
PT3D	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.1
PT4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	38.6
TT3D	839	839	839	835	839	839	839	845
TT4	1241	1241	1241	1241	1241	1241	1241	1256
PT9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.0
PTD	7.9	8.1	8.2	8.3	8.5	8.6	8.7	9.3
TT9	2009	2009	2009	2009	2009	2009	2009	2009
TTD	3500	3000	2750	2500	2250	2000	1504	845
WAS/WAP	0.0417	0.0390	0.0378	0.0365	0.0352	0.0338	0.0309	0.0265
VENG	1980	1980	1980	1980	1980	1980	1980	1980
VDUCT	2417	2408	2309	2203	2093	1976	1729	1299
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	13.32	11.63	10.89	10.15	9.44	8.72	7.31	4.94

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ALT	65000	WASIZE		440	PT2/PT2P	0.904	WBL3	0.
MO	2.20	PAM		0.8	PT2	8.0	WBL4	0.
VA KTS	1262	TAM		350	TT2	767	HPEXT	500.0
MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	16156	13960	12954	11917	10447	9729	7675	5255
FGT	30175	27981	26975	25937	24967	23749	21496	19276
MAT	212	212	212	212	212	212	212	212
WFT	31955	24879	22046	19369	16943	14622	10903	5875
TSFC	1.978	1.782	1.701	1.623	1.562	1.503	1.420	1.350
BPR	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
WAT2	474	474	474	474	474	474	474	474
N1	5294	5294	5294	5294	5294	5294	5294	5324
N2	7773	7773	7773	7773	7773	7773	7773	7827
PT3D	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.6
PT4	44.7	44.7	44.7	44.7	44.7	44.7	44.7	46.2
TT3D	908	908	908	908	908	908	908	915
TT4	1304	1304	1304	1304	1304	1304	1304	1319
PT9	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.3
PTD	11.0	11.3	11.4	11.5	11.7	11.8	11.9	12.6
TT9	2008	2008	2008	2008	2008	2008	2008	2009
TTD	3500	3000	2750	2500	2250	2000	1571	915
WAS/WAP	0.0398	0.0373	0.0361	0.0349	0.0336	0.0323	0.0291	0.0258
VENG	1980	1980	1980	1980	1980	1980	1980	1979
VDUCT	2614	2408	2308	2201	2093	1977	1758	1356
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	11.09	9.73	9.14	8.54	7.99	7.41	6.40	4.45

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ALT	65000	WASIZE		A4C	PT2/PT2P	0.870	WBL3	
MC	2.67	P&W		0.8	PT2	12.3	WBL4	
VA KTS	1014	T&W		390	112	835	HPEXT	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	13930	16751	15408	14033	12820	11145	9151	6308
FGT	34522	35004	35351	33975	32502	31092	29146	26850
MAT	265	265	265	265	265	265	265	265
WFT	27372	24317	25861	23570	19606	16721	13312	7144
TSFC	1.529	1.753	1.677	1.598	1.556	1.506	1.455	1.456
BPR	1.39	1.39	1.40	1.40	1.40	1.40	1.40	1.89
MAT2	412	412	412	412	412	412	412	412
N1	9229	9229	9229	9229	9229	9229	9229	9271
N2	7911	7911	7911	7911	7911	7911	7911	7589
PT30	19.7	19.7	19.7	19.7	19.7	19.7	19.7	26.2
PT4	58.3	58.3	58.3	58.3	58.3	58.3	58.3	85.5
TT30	1026	1026	1026	1026	1026	1026	1026	1033
TT4	1406	1406	1406	1406	1406	1406	1406	1422
PT9	17.4	17.4	17.4	17.4	17.4	17.4	17.4	16.8
PTD	17.8	17.9	18.0	18.1	18.2	18.3	18.4	13.2
TT9	2005	2005	2005	2005	2005	2005	2005	2204
TTD	1560	3000	2750	2500	2250	2000	1678	1023
WAS/WAP	0.0472	0.0369	0.0338	0.0326	0.0315	0.0303	0.0286	0.0250
VENG	1978	1975	1978	1978	1978	1978	1978	1978
VDUCT	2414	2408	2308	2204	2093	1977	1815	1434
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	8.91	7.55	7.13	6.71	6.28	5.85	5.27	3.81

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ALT	65000	WASIZE		A4C	PT2/PT2P	0.866	WBL3	
MC	2.72	P&W		0.8	PT2	15.1	WBL4	
VA KTS	1569	T&W		390	112	974	HPEXT	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	22440	19976	17246	15587	13970	12105	10215	5241
FGT	47244	44219	42565	40933	39265	37651	35618	30837
MAT	312	312	312	312	312	312	312	312
WFT	43176	37944	37864	35145	25717	19423	15101	8060
TSFC	1.925	1.766	1.676	1.615	1.565	1.522	1.466	1.523
BPR	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86
MAT2	382	382	382	382	382	382	382	382
N1	9288	9288	9288	9288	9288	9288	9288	9238
N2	8039	8039	8039	8039	8039	8039	8039	8082
PT30	25.3	25.3	25.3	25.3	25.3	25.3	25.3	27.9
PT4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	72.2
TT30	1108	1108	1108	1108	1108	1108	1108	1116
TT4	1481	1481	1481	1481	1481	1481	1481	1494
PT9	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.8
PTD	23.1	23.4	23.7	23.9	23.7	23.8	23.9	24.9
TT9	2003	2003	2003	2003	2003	2003	2003	2352
TTD	1560	3000	2750	2500	2250	2000	1753	1114
WAS/WAP	0.0456	0.0334	0.0321	0.0312	0.0301	0.0290	0.0277	0.0245
VENG	1971	1978	1978	1978	1978	1978	1978	1977
VDUCT	2414	2408	2308	2204	2093	1977	1854	1483
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.56	6.74	6.37	6.00	5.63	5.25	4.85	3.59

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ALT	55000	WASIZE		A4C	PT2/PT2P	0.925	WBL3	
MC	2.20	P&W		0.8	PT2	9.7	WBL4	
VA KTS	1154	T&W		395	112	711	HPEXT	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	7719	5164	4387	5896	5393	4838	3462	1840
FGT	14666	13609	13172	12661	12127	11589	10207	8624
MAT	111	111	111	111	111	111	111	111
WFT	23703	15425	19561	11868	10276	8799	4713	2101
TSFC	2.614	2.264	2.121	2.009	1.909	1.819	1.650	1.544
BPR	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.42
MAT2	515	515	515	515	515	515	515	515
N1	9263	9263	9263	9263	9263	9263	9263	9293
N2	7276	7276	7276	7276	7276	7276	7276	7366
PT30	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.3
PT4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	21.2
TT30	825	825	825	825	825	825	825	831
TT4	1219	1219	1219	1219	1219	1219	1219	1234
PT9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.9
PTD	3.8	3.7	3.8	3.8	4.0	4.0	4.2	4.7
TT9	2021	2021	2021	2021	2021	2021	2021	2220
TTD	3560	3000	2750	2500	2250	2000	1420	830
WAS/WAP	0.0419	0.0391	0.0379	0.0369	0.0351	0.0336	0.0300	0.0259
VENG	1996	1986	1992	1986	1986	1986	1986	1985
VDUCT	2416	2407	2307	2202	2092	1976	1679	1288
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	14.88	15.88	15.62	14.49	13.21	12.09	9.60	6.34

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ALT	75000	WASIZE		A4C	PT2/PT2P	0.906	WBL3	
MC	2.20	P&W		0.8	PT2	5.0	WBL4	
VA KTS	1273	T&W		395	112	776	HPEXT	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	9633	8339	7717	7571	6406	5707	4342	2263
FGT	18416	17067	16440	15706	15129	14415	13145	10564
MAT	131	131	131	131	131	131	131	131
WFT	20326	16725	13875	12140	10576	9063	6582	3390
TSFC	2.497	1.946	1.758	1.716	1.650	1.588	1.523	1.493
BPR	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.25
MAT2	474	474	474	474	474	474	474	474
N1	9222	9222	9222	9222	9222	9222	9222	9263
N2	7477	7477	7477	7477	7477	7477	7477	7569
PT30	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.6
PT4	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.9
TT30	443	443	443	443	443	443	443	452
TT4	1288	1288	1288	1288	1288	1288	1288	1304
PT9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7
PTD	5.8	5.9	6.0	6.1	6.2	6.3	6.6	6.9
TT9	2017	2017	2017	2017	2017	2017	2017	2214
TTD	3560	3000	2750	2500	2250	2000	1459	855
WAS/WAP	0.0349	0.0273	0.0261	0.0248	0.0235	0.0221	0.0206	0.0159
VENG	1984	1984	1984	1984	1984	1984	1984	1983
VDUCT	2417	2408	2308	2203	2093	1976	1752	1344
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	13.71	11.95	11.17	10.42	9.68	8.95	7.64	5.21

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ALT	75000	WASIZE		640	PT2/PT2P	0.870	WBL3	
MC	2.53	P&W		0.8	PT2	7.6	WBL4	
VA KTS	1443	T&W		395	112	846	HPEXT	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	12057	10217	9372	8505	7614	6686	5408	2704
FGT	24465	22675	21780	20933	20022	19094	17818	15112
MAT	164	164	164	164	164	164	164	164
WFT	25869	21343	16125	14037	12145	10337	8100	4164
TSFC	1.980	1.735	1.721	1.650	1.595	1.546	1.498	1.532
BPR	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.09
MAT2	412	412	412	412	412	412	412	412
N1	9180	9180	9180	9180	9180	9180	9180	9218
N2	7745	7745	7745	7745	7745	7745	7745	7795
PT30	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.8
PT4	33.7	33.7	33.7	33.7	33.7	33.7	33.7	34.9
TT30	1022	1022	1022	1022	1022	1022	1022	1028
TT4	1399	1399	1399	1399	1399	1399	1399	1414
PT9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.2
PTD	10.1	10.3	10.4	10.4	10.5	10.6	10.8	11.1
TT9	2012	2012	2012	2012	2012	2012	2012	2211
TTD	3560	3000	2750	2500	2250	2000	1676	1028
WAS/WAP	0.0372	0.0348	0.0337	0.0325	0.0313	0.0301	0.0286	0.0247
VENG	1982	1982	1982	1982	1982	1982	1982	1981
VDUCT	2418	2408	2308	2204	2093	1977	1813	1432
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.48	8.38	7.90	7.43	6.95	6.47	5.81	4.20

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ALT	75000	WASIZE		640	PT2/PT2P	0.846	WBL3	
MC	2.72	P&W		0.8	PT2	10.1	WBL4	
VA KTS	1558	T&W		395	112	956	HPEXT	

MAXTHR	MAX D/H						MIN D/H NOT LIT	
FNT	13755	11550	10522	9476	8399	7279	6117	2700
FGT	29565	27920	26293	24747	24169	23049	21992	19721
MAT	193	193	193	193	193	193	193	193
WFT	27693	20581	17535	15624	13429	11332	9332	4311
TSFC	1.564	1.782	1.768	1.686	1.599	1.557	1.523	1.557
BPR	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03
MAT2	382	382	382	382	382	382	382	382
N1	9127	9127	9127	9127	9127	9127	9127	9171
N2	7903	7903	7903	7903	7903	7903	7903	7949
PT30	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.4
PT4	40.6	40.6	40.6	40.6	40.6	40.6	40.6	42.1
TT30	1107	1107	1107	1107	1107	1107	1107	1113
TT4	1477	1477	1477	1477	1477	1477	1477	1492
PT9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.4
PTD	13.5	13.7	13.8	13.9	13.9	14.0	14.2	14.6
TT9	2010	2010	2010	2010	2010	2010	2010	2209
TTD	3560	3000	2750	2500	2250	2000	1751	1119
WAS/WAP	0.0355	0.0333	0.0322	0.0311	0.0300	0.0283	0.0276	0.0242
VENG	1981	1981	1981	1981	1981	1981	1981	1980
VDUCT	2418	2408	2308	2204	2093	1977	1851	1477
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.24	7.37	6.92	6.51	6.11	5.64	5.29	3.69

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ALT	35000	WASIZE	WAC	PT2/PT2P	0.904	WFL3	O-
MO	2.70	FAM	1.0	PT2	12.9	WFL4	O-
VA KTS	1262	TAM	390	TT2	767	WPERT	100.0

MARTHA	MAX O/H						MIN O/H NOT LIT
FNT	24418	22876	21250	19577	17896	16055	12932	7385
FGT	46313	45869	44744	42372	40669	39350	35427	32375
WAT	344	344	344	344	344	344	344	344
WFT	51218	39970	29618	21203	27152	27643	17473	9068
TSFC	1.995	1.767	1.745	1.734	1.732	1.676	1.751	1.760
BPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
WAT2	478	478	478	478	478	478	478	478
N1	5356	5356	5356	5356	5356	5356	5356	5349
N2	7969	7969	7965	7965	7968	7964	7959	7914
PT30	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.7
PT4	76.0	76.0	76.0	76.0	76.0	76.0	76.0	74.6
TT30	918	918	918	918	918	918	918	923
TT4	1319	1319	1319	1319	1319	1319	1319	1334
PT9	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.1
PTD	19.4	19.4	19.4	19.4	19.4	19.4	19.4	21.4
TT9	2051	2051	2051	2051	2051	2051	2051	2060
TTD	3567	3503	2790	2550	2340	2003	1969	629
WAS/WAP	0.0347	0.0372	0.0380	0.0364	0.0336	0.0329	0.0350	0.0260
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2618	2608	2309	2203	2093	1977	1963	1758
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	10.20	9.02	8.47	7.95	7.45	6.99	6.59	6.19

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ALT	35000	WASIZE	WAC	PT2/PT2P	0.895	WFL3	O-
MO	2.70	FAM	1.0	PT2	12.9	WFL4	O-
VA KTS	1436	TAM	390	TT2	975	WPERT	100.0

MARTHA	MAX O/H						MIN O/H NOT LIT
FNT	23246	21957	20631	19281	17896	16455	13417	9265
FGT	47119	47079	46963	47001	46965	46934	42609	42069
WAT	468	468	468	468	468	468	468	468
WFT	64216	49672	35592	23845	33043	34255	23111	13547
TSFC	1.924	1.765	1.671	1.621	1.595	1.495	1.642	1.671
BPR	1.37	1.91	1.91	1.91	1.91	1.91	1.91	1.89
WAT2	432	432	432	432	432	432	432	432
N1	5367	5367	5367	5367	5367	5367	5367	5346
N2	8033	8033	8033	8033	8033	8033	8033	8009
PT30	31.8	31.8	31.8	31.8	31.8	31.8	31.8	32.8
PT4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	102.5
TT30	1025	1025	1025	1025	1025	1025	1025	1013
TT4	1622	1622	1622	1622	1622	1622	1622	1657
PT9	17.6	17.6	17.6	17.6	17.6	17.6	17.6	18.2
PTD	25.1	25.1	24.9	25.0	25.2	25.2	25.2	28.5
TT9	1736	1748	1698	1569	1548	1598	1738	1697
TTD	3540	3503	2790	2550	2340	2003	1969	1213
WAS/WAP	0.0437	0.0368	0.0359	0.0329	0.0319	0.0302	0.0296	0.0230
VENG	1975	1975	1975	1975	1975	1975	1975	1974
VDUCT	2618	2608	2308	2206	2093	1977	1815	1631
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.21	7.99	7.46	7.03	6.65	6.29	5.96	6.78

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ALT	25000	WASIZE	WAC	PT2/PT2P	0.946	WFL3	O-
MO	2.70	FAM	1.3	PT2	26.5	WFL4	O-
VA KTS	1548	TAM	390	TT2	654	WPERT	100.0

MARTHA	MAX O/H						MIN O/H NOT LIT
FNT	28367	27268	26078	26639	23713	20673	17480	9816
FGT	82623	79525	72735	69956	66970	63629	60736	52373
WAT	533	533	533	533	533	533	533	533
WFT	73938	46304	49266	42912	36540	31319	25975	13410
TSFC	1.626	1.745	1.671	1.612	1.559	1.515	1.468	1.504
BPR	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90
WAT2	404	404	404	404	404	404	404	404
N1	5329	5329	5329	5329	5329	5329	5329	5367
N2	8140	8140	8140	8140	8140	8140	8140	8182
PT30	40.6	40.6	40.6	40.6	40.6	40.6	40.6	41.5
PT4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	121.6
TT30	1104	1104	1104	1104	1104	1104	1104	1111
TT4	1496	1496	1496	1496	1496	1496	1496	1511
PT9	20.8	20.8	20.8	20.8	20.8	20.8	20.8	21.5
PTD	36.5	37.0	37.3	37.4	37.6	37.8	38.0	39.4
TT9	1595	1595	1595	1595	1595	1595	1595	1635
TTD	3567	3000	2790	2500	2240	2000	1748	1111
WAS/WAP	0.0356	0.0334	0.0323	0.0312	0.0301	0.0289	0.0277	0.0246
VENG	1974	1974	1974	1974	1974	1974	1974	1973
VDUCT	2618	2609	2309	2204	2093	1977	1852	1468
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	8.23	7.32	6.91	6.51	6.10	5.68	5.25	5.87

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ALT	25000	WASIZE	WAC	PT2/PT2P	0.904	WFL3	O-
MO	2.70	FAM	0.9	PT2	26.5	WFL4	O-
VA KTS	1262	TAM	390	TT2	767	WPERT	100.0

MARTHA	MAX O/H						MIN O/H NOT LIT
FNT	26758	24049	23036	21791	20513	17385	7756	4259
FGT	70393	28184	27171	24174	24044	23520	21493	18342
WAT	216	216	216	216	216	216	216	216
WFT	32263	25109	22262	19853	17087	14761	10912	5367
TSFC	1.686	1.787	1.706	1.625	1.586	1.476	1.623	1.593
BPR	2.42	2.02	2.02	2.02	2.02	2.02	2.02	2.02
WAT2	478	478	478	478	478	478	478	478
N1	5311	5311	5311	5311	5311	5311	5311	5341
N2	7776	7776	7776	7776	7776	7776	7776	7721
PT30	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.2
PT4	44.8	44.8	44.8	44.8	44.8	44.8	44.8	46.9
TT30	907	907	907	907	907	907	907	919
TT4	1305	1305	1305	1305	1305	1305	1305	1320
PT9	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.3
PTD	13.9	13.1	12.9	11.4	11.5	11.4	11.4	12.5
TT9	2038	2008	2008	2008	2008	2008	2008	2007
TTD	3540	3000	2750	2500	2250	2000	1750	919
WAS/WAP	0.0293	0.0273	0.0261	0.0249	0.0238	0.0221	0.0221	0.0254
VENG	1979	1979	1979	1979	1979	1979	1979	1979
VDUCT	2618	2608	2308	2203	2093	1977	1767	1369
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	11.34	9.97	9.58	8.77	8.19	7.63	6.56	6.56

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ALT	45000	WASIZE	WAC	PT2/PT2P	0.870	WFL3	O-
MO	2.62	FAM	0.9	PT2	12.3	WFL4	O-
VA KTS	1414	TAM	390	TT2	878	WPERT	100.0

MARTHA	MAX O/H						MIN O/H NOT LIT
FNT	20624	17541	16123	14669	13175	11618	5449	4317
FGT	41435	34451	37034	35580	34045	32529	30356	25828
WAT	278	278	278	278	278	278	274	278
WFT	40294	30968	27261	23772	20608	17585	13800	7301
TSFC	1.949	1.796	1.691	1.632	1.564	1.514	1.481	1.484
BPR	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99
WAT2	432	432	432	432	432	432	432	432
N1	5316	5316	5316	5316	5316	5316	5316	5368
N2	7918	7918	7918	7918	7918	7618	7618	7874
PT30	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.6
PT4	59.0	59.0	59.0	59.0	59.0	59.0	59.0	61.2
TT30	1017	1017	1017	1017	1017	1017	1017	1024
TT4	1411	1411	1411	1411	1411	1411	1411	1426
PT9	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.9
PTD	16.7	17.0	17.1	17.3	17.4	17.5	17.6	18.4
TT9	2033	2009	2009	2003	2003	2003	2003	2003
TTD	3563	3000	2790	2550	2250	2000	1868	1024
WAS/WAP	0.0373	0.0349	0.0334	0.0327	0.0319	0.0302	0.0285	0.0246
VENG	1977	1977	1977	1977	1977	1977	1977	1977
VDUCT	2618	2608	2308	2203	2093	1977	1811	1427
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.58	8.47	7.99	7.51	7.02	6.55	5.84	6.22

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ALT	45000	WASIZE	WAC	PT2/PT2P	0.846	WFL3	O-
MO	2.70	FAM	0.9	PT2	15.9	WFL4	O-
VA KTS	1548	TAM	390	TT2	954	WPERT	100.0

MARTHA	MAX O/H						MIN O/H NOT LIT
FNT	23918	20004	18258	15679	13669	12743	12687	5251
FGT	50461	46927	45081	43103	41471	39566	37611	32624
WAT	330	330	330	330	330	330	330	330
WFT	66792	35217	30769	26792	23059	19696	15942	9136
TSFC	1.664	1.761	1.686	1.626	1.574	1.530	1.495	1.535
BPR	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98
WAT2	404	404	404	404	404	404	404	404
N1	5293	5293	5293	5293	5293	5293	5293	5332
N2	8047	8047	8047	8047	8047	8047	8047	8002
PT30	24.6	24.6	24.6	24.6	24.6	24.6	24.6	25.1
PT4	70.7	70.7	70.7	70.7	70.7	70.7	70.7	73.2
TT30	1097	1097	1097	1097	1097	1097	1097	1104
TT4	1456	1456	1456	1456	1456	1456	1456	1502
PT9	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.0
PTD	21.9	22.2	22.3	22.5	22.6	22.7	22.8	23.7
TT9	2091	2081	2081	2081	2081	2081	2081	2009
TTD	3562	3000	2750	2500	2250	2000	1762	1164
WAS/WAP	0.0357	0.0334	0.0324	0.0313	0.0301	0.0290	0.0277	0.0243
VENG	1977	1977	1977	1977	1977	1977	1977	1976
VDUCT	2618	2608	2308	2204	2093	1977	1869	1481
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.65	7.85	7.25	6.92	6.39	5.95	5.68	6.04

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DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

ALT	25000	WASIZE	640	PT2/PT2P	0.906	WFL3	CL
MO	.500	FAM	.965	PT2	5.0	WFL4	CL
VA KTS	1273	TAM	1165	TT2	775	WFBRT	503.0

MAXTHR	MAX C/H					MIN C/H NOT LIT	
ENT	2710	9423	7764	7103	4431	5728	4123	2238
FGT	19579	17157	16562	15905	15225	14522	13177	11032
WAT	132	132	132	132	132	132	132	132
WFT	20116	15926	14063	12274	10593	6161	6628	3357
TSFC	.7317	1.907	1.913	1.730	1.662	1.499	1.512	1.500
BPR	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.31
MAT2	478	478	478	478	478	478	478	478
N1	5237	5237	5237	5237	5237	5237	5237	5237
N2	7490	7490	7490	7490	7490	7490	7490	7490
PT30	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
PT4	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
TT30	947	947	947	947	947	947	947	947
TT4	1293	1293	1293	1293	1293	1293	1293	1293
PT9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.7
PTD	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.8
TT9	2017	2017	2017	2017	2017	2017	2017	2015
TTD	2350	2350	2350	2350	2350	2350	1756	904
WAS/WAP	0.0365	0.0373	0.0361	0.0348	0.0335	0.0321	0.0295	0.0253
VENG	1934	1934	1934	1934	1934	1584	1084	1084	1583
VDUCT	2617	2617	2617	2393	2203	2093	1576	1750	1343
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	14.22	12.35	11.54	10.75	9.98	9.22	7.46	5.33

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ALT	25000	WASIZE	640	PT2/PT2P	0.880	WFL3	CL
MO	.693	FAM	.965	PT2	10.1	WFL4	CL
VA KTS	1564	TAM	1355	TT2	986	WFBRT	503.0

MAXTHR	MAX C/H					MIN C/H NOT LIT	
ENT	14635	12214	11116	9565	7947	7649	6196	2752
FGT	31546	29402	27806	26499	25537	24239	21963	19642
WAT	206	206	206	206	206	206	206	206
WFT	28319	21961	19151	16816	14747	11987	9756	6765
TSFC	1.985	1.994	1.727	1.672	1.610	1.567	1.435	1.414
BPR	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16
MAT2	404	404	404	404	404	404	404	404
N1	5262	5262	5262	5262	5262	5262	5262	5284
N2	7916	7916	7916	7916	7916	7916	7916	7958
PT30	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.9
PT4	41.3	41.3	41.3	41.3	41.3	41.3	41.3	42.4
TT30	1097	1097	1097	1097	1097	1097	1097	1103
TT4	1493	1493	1493	1493	1493	1493	1493	1498
PT9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.6
PTD	12.7	12.9	13.0	13.1	13.2	13.3	13.4	13.6
TT9	2237	2007	2007	2007	2007	2007	2007	2007
TTD	3560	3230	2756	2602	2270	2090	1762	1101
WAS/WAP	0.0357	0.0334	0.0323	0.0312	0.0300	0.0298	0.0275	0.0240
VENG	1940	1780	1980	1980	1980	1980	1980	1576
VDUCT	2618	2408	2308	2204	2093	1977	1648	1486
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	9.65	8.36	7.68	7.41	6.94	6.45	5.04	4.37

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ALT	25000	WASIZE	640	PT2/PT2P	0.860	WFL3	CL
MO	.693	FAM	.965	PT2	7.6	WFL4	CL
VA KTS	1443	TAM	1335	TT2	936	WFBRT	503.0

MAXTHR	MAX C/H					MIN C/H NOT LIT	
ENT	12612	10477	9782	8449	7532	6951	5577	3305
FGT	25613	24641	22792	21482	20465	19561	18541	15715
WAT	172	172	172	172	172	172	172	172
WFT	24749	19366	17301	14777	12761	10436	8651	4183
TSFC	1.934	1.915	1.738	1.646	1.609	1.559	1.504	1.457
BPR	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.20
MAT2	432	432	432	432	432	432	432	432
N1	5263	5263	5263	5263	5263	5263	5263	5306
N2	7756	7756	7756	7756	7756	7756	7756	7806
PT30	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.5
PT4	34.1	34.1	34.1	34.1	34.1	34.1	34.1	35.4
TT30	1314	1314	1314	1314	1314	1314	1314	1320
TT4	1606	1606	1606	1606	1606	1606	1606	1619
PT9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.3
PTD	9.5	9.7	9.8	9.9	10.0	10.0	10.1	10.6
TT9	2011	2011	2011	2011	2011	2011	2011	2005
TTD	3540	3090	2755	2499	2256	2000	1668	1027
WAS/WAP	0.0379	0.0369	0.0337	0.0326	0.0313	0.0301	0.0284	0.0249
VENG	1931	1781	1931	1981	1981	1981	1781	1490
VDUCT	2618	2404	2209	2201	2093	1977	1649	1425
AJCOE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCOD	10.75	9.67	8.91	8.36	7.81	7.25	6.44	6.05

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ALT	55000	WASIZE		64C	PT2/PT2P	0.896	WBL3	0.
MO	2.20	PAM		1.3	PT2	12.9	WBL4	0.
VA KTS	1262	TAM		390	TT2	767	HPEXT	900.0
MAXTHR	MAX D/H						MIN C/H NOT LIT	
FNT	25947	22465	20875	19238	17583	15795	12677	7365
FGT	48274	44807	43211	41579	39890	38132	35014	29704
WAT	337	337	337	337	337	337	337	337
WFT	49973	39038	34632	30515	26432	23186	17607	9854
TSFC	1.527	1.738	1.686	1.586	1.525	1.468	1.389	1.337
BPR	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.82
WAT2	468	468	468	468	468	468	468	468
N1	9319	9319	9319	9319	9319	9319	9319	9358
N2	7969	7969	7969	7969	7969	7969	7969	8011
PT3D	22.4	22.4	22.4	22.4	22.4	22.4	22.4	23.0
PT6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	78.2
TT3D	922	922	922	922	922	922	922	930
TT4	1317	1317	1317	1317	1317	1317	1317	1332
PT9	13.6	13.6	13.6	13.6	13.6	13.6	13.6	14.1
PTD	19.6	20.0	20.2	20.3	20.5	20.6	20.8	21.8
TT9	2002	2002	2002	2002	2002	2002	2002	2001
TTD	3560	3000	2750	2560	2290	2000	1584	530
WAS/WAP	C.0196	0.0172	0.0360	0.0348	0.0336	0.0323	0.0301	C.0261
VENG	1976	1976	1976	1976	1976	1976	1976	1976
VDUCT	2618	2408	2308	2203	2093	1977	1765	1361
AJCDE	5.2C	5.2C	5.2C	5.2C	5.2C	5.2C	5.2C	5.2C
AJCDD	9.49	9.52	8.02	7.49	7.04	6.55	5.69	3.59

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ALT	55000	WASIZE		64C	PT2/PT2P	0.896	WBL3	0.
MO	2.50	PAM		1.3	PT2	14.9	WBL4	0.
VA KTS	1434	TAM		390	TT2	875	HPEXT	900.0
MAXTHR	MAX D/H						MIN C/H NOT LIT	
FNT	30456	26006	23960	21987	19744	17419	14061	6197
FGT	61430	56979	54934	52917	50717	48443	45495	39136
WAT	412	412	412	412	412	412	412	412
WFT	57854	46705	41864	37607	33177	29537	23520	11856
TSFC	1.873	1.719	1.642	1.581	1.529	1.481	1.434	1.418
BPR	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.68
WAT2	397	397	397	397	397	397	397	397
N1	9262	9262	9262	9262	9262	9262	9262	9318
N2	8027	8027	8027	8027	8027	8027	8027	8092
PT3D	33.5	33.5	33.5	33.5	33.5	33.5	33.5	34.6
PT6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	101.2
TT3D	1044	1044	1044	1044	1044	1044	1044	1057
TT4	1416	1416	1416	1416	1416	1416	1416	1431
PT9	17.3	17.3	17.3	17.3	17.3	17.3	17.3	18.0
PTD	30.8	31.2	31.3	31.4	31.6	31.7	31.8	33.2
TT9	2000	2000	2000	2000	2000	2000	2000	1998
TTD	3560	3000	2750	2560	2290	2000	1635	1051
WAS/WAP	0.0365	0.0347	0.0336	0.0325	0.0314	0.0302	0.0247	0.0194
VENG	1976	1976	1974	1976	1976	1974	1976	1975
VDUCT	2618	2408	2304	2206	2093	1977	1926	1667
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.28	6.49	6.13	5.79	5.42	5.06	4.59	3.32

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ALT	55000	WASIZE		64C	PT2/PT2P	0.856	WBL3	0.
MO	2.73	PAM		1.3	PT2	26.3	WBL4	0.
VA KTS	1549	TAM		390	TT2	954	HPEXT	900.0
MAXTHR	MAX D/H						MIN C/H NOT LIT	
FNT	31059	27953	25923	23754	20819	18289	15962	8618
FGT	70951	65445	63516	61147	58711	56182	53854	46710
WAT	466	466	466	466	466	466	466	466
WFT	62231	47547	42081	36880	32025	27393	23459	13072
TSFC	1.482	1.712	1.642	1.586	1.538	1.496	1.470	1.402
BPR	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57
WAT2	354	354	354	354	354	354	354	354
N1	9262	9262	9262	9262	9262	9262	9262	9303
N2	8128	8128	8128	8128	8128	8128	8128	8192
PT3D	44.0	44.0	44.0	44.0	44.0	44.0	44.0	46.7
PT6	115.9	115.9	115.9	115.9	115.9	115.9	115.9	119.8
TT3D	1137	1137	1137	1137	1137	1137	1137	1143
TT4	1491	1491	1491	1491	1491	1491	1491	1505
PT9	20.5	20.5	20.5	20.5	20.5	20.5	20.5	21.1
PTD	41.9	41.7	41.9	42.0	42.1	42.2	42.3	43.4
TT9	1997	1997	1997	1997	1997	1997	1997	1980
TTD	3560	3000	2750	2560	2290	2000	1779	1143
WAS/WAP	C.0192	0.0131	0.0121	0.0111	0.0300	0.0290	0.0280	0.0248
VENG	1975	1975	1975	1975	1975	1975	1975	1966
VDUCT	2618	2408	2309	2204	2094	1977	1868	1556
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	5.94	5.32	5.04	4.76	4.47	4.17	3.90	2.92

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ALT	65000	WASIZE		64C	PT2/PT2P	0.904	WBL3	0.
MO	2.73	PAM		0.8	PT2	8.0	WBL4	0.
VA KTS	1262	TAM		390	TT2	767	HPEXT	900.0
MAXTHR	MAX D/H						MIN C/H NOT LIT	
FNT	15991	13822	12927	11861	10744	9640	7823	4252
FGT	29843	27673	26677	25652	24595	23490	21674	18103
WAT	209	209	209	209	209	209	209	209
WFT	31498	24537	21744	19110	16729	14446	10903	5858
TSFC	1.670	1.775	1.695	1.611	1.557	1.499	1.417	1.378
BPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
WAT2	468	468	468	468	468	468	468	468
N1	9270	9270	9270	9270	9270	9270	9270	9309
N2	7771	7771	7771	7771	7771	7771	7771	7819
PT3D	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.5
PT6	44.5	44.5	44.5	44.5	44.5	44.5	44.5	46.0
TT3D	910	910	910	910	910	910	910	917
TT4	1303	1303	1303	1303	1303	1303	1303	1317
PT9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.3
PTD	11.3	11.5	11.7	11.8	11.9	12.0	12.1	12.7
TT9	2008	2008	2008	2008	2008	2008	2008	2008
TTD	3560	3000	2750	2560	2290	2000	1673	917
WAS/WAP	C.0398	0.0373	0.0361	0.0349	0.0336	0.0323	0.0300	C.0259
VENG	1980	1980	1980	1980	1980	1980	1980	1978
VDUCT	2618	2408	2308	2203	2093	1977	1759	1352
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	10.65	9.59	8.82	8.27	7.73	7.17	6.20	4.33

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ALT	65000	WASIZE		64C	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAM		C.8	PT2	12.3	WBL4	0.
VA KTS	1434	TAM		390	TT2	875	HPEXT	900.0
MAXTHR	MAX D/H						MIN C/H NOT LIT	
FNT	18923	16123	14860	13527	12179	10774	8915	4902
FGT	38128	35329	34047	32734	31385	29983	28122	24109
WAT	255	255	255	255	255	255	255	255
WFT	36766	29055	24757	21654	18941	16153	12943	7111
TSFC	1.917	1.760	1.668	1.601	1.547	1.499	1.452	1.451
BPR	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.80
WAT2	397	397	397	397	397	397	397	397
N1	9172	9172	9172	9172	9172	9172	9172	9231
N2	7904	7904	7904	7904	7904	7904	7904	7964
PT3D	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.6
PT4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	60.1
TT3D	1033	1033	1033	1033	1033	1033	1033	1042
TT4	1403	1403	1403	1403	1403	1403	1403	1419
PT9	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.7
PTD	18.3	18.5	18.6	18.7	18.8	18.9	19.0	19.8
TT9	2006	2006	2006	2006	2006	2006	2006	2005
TTD	3560	3000	2750	2560	2290	2093	1887	1052
WAS/WAP	C.0371	0.0348	0.0337	0.0326	0.0315	0.0305	0.0287	0.0252
VENG	1979	1979	1978	1976	1979	1979	1979	1978
VDUCT	2618	2408	2308	2206	2093	1977	1819	1.40
AJCDE	5.20	5.20	5.2C	5.2C	5.20	5.20	5.20	5.20
AJCDD	7.77	6.92	6.56	6.16	5.77	5.38	4.86	3.52

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ALT	65000	WASIZE		64C	PT2/PT2P	0.866	WBL3	0.
MO	2.70	PAM		0.8	PT2	16.3	WBL4	0.
VA KTS	1568	TAM		390	TT2	954	HPEXT	900.0
MAXTHR	MAX D/H						MIN C/H NOT LIT	
FNT	20993	17375	15907	14414	12878	11283	9251	5138
FGT	44940	40872	39404	37911	36375	34779	33248	29835
WAT	289	289	289	289	289	289	289	289
WFT	39136	30C21	26376	23378	20C00	17066	13472	8048
TSFC	1.900	1.728	1.655	1.601	1.553	1.513	1.484	1.508
BPR	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.65
WAT2	354	354	354	354	354	354	354	354
N1	9158	9158	9158	9158	9158	9158	9158	9230
N2	8033	8033	8033	8033	8033	8033	8033	8078
PT3D	26.5	26.5	26.5	26.5	26.5	26.5	26.5	27.1
PT4	69.3	69.3	69.3	69.3	69.3	69.3	69.3	72.1
TT3D	1127	1127	1127	1127	1127	1127	1127	1135
TT4	1479	1479	1479	1479	1479	1479	1479	1496
PT9	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.8
PTD	24.8	25.0	25.1	25.2	25.3	25.3	25.4	26.2
TT9	2004	2004	2004	2004	2004	2004	2004	2002
TTD	3560	3000	2750	2560	2290	2000	1770	1135
WAS/WAP	0.0353	0.0332	0.0322	0.0312	0.0331	0.0290	0.0279	0.0248
VENG	1978	1978	1978	1978	1978	1978	1978	1977
VDUCT	2618	2408	2308	2204	2094	1977	1863	1561
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	6.28	5.62	5.32	5.02	4.71	4.40	4.10	3.04

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DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

ALT	35000	WASIZE	440	PT2/PT2P	0.994	WBL3		CL
MN	2.35	PAM	9.5	PT2	5.6	WBL4		CL
VA KTS	1273	FAM	355	TT2	378	WPEXT		500.0
MAXTHR	MAX D/H					PIN D/H	NOT LIT	
FNT	9477	9282	7966	7015	6766	5872	4372	2249
FGT	1972.5	1940.0	1820.2	1766.3	1698.2	1623.9	1514.3	1296.6
WAT	121	129	116	124	129	129	129	129
WFT	13965	13661	11956	11091	10611	8955	6527	3356
TSFC	1.776	1.767	1.782	1.751	1.636	1.575	1.493	1.485
BPR	2.29	2.28	2.23	2.29	2.29	2.29	2.27	2.25
MAT2	468	468	468	468	468	468	468	459
N1	9231	9201	9101	9001	9001	9001	9001	9001
N2	7673	7673	7673	7673	7673	7673	7673	7538
PT30	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.7
PT4	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5
TT30	900	900	900	900	900	900	900	907
TT4	1297	1297	1297	1297	1297	1297	1297	1303
PT9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.7
PTD	5.9	6.1	6.2	6.3	6.4	6.5	6.6	7.0
TT9	2018	2019	2019	2019	2019	2018	2018	2016
TTD	3560	3300	2750	2500	2250	2000	1765	1130
WAS/WAP	0.0339	0.0373	0.0361	0.0349	0.0335	0.0321	0.0296	0.0253
VENG	1996	1996	1996	1996	1996	1996	1996	1996
VDUCT	2419	2409	2304	2203	2043	1976	1794	1545
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	11.75	11.41	10.67	9.97	9.27	8.58	7.35	5.03

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ALT	35000	WASIZE	440	PT2/PT2P	0.870	WBL3		CL
MN	2.50	PAM	9.5	PT2	7.6	WBL4		CL
VA KTS	1461	FAM	365	TT2	396	WPEXT		500.0
MAXTHR	MAX D/H					PIN D/H	NOT LIT	
FNT	11618	9951	9041	9210	7347	6469	5270	2894
FGT	2136.9	2180.2	2059.1	2016.1	1930.7	1841.9	1722.0	1494.4
WAT	154	148	154	158	148	158	158	158
WFT	22631	17575	15469	13674	11578	9559	7969	4110
TSFC	1.965	1.784	1.711	1.642	1.547	1.430	1.693	1.526
BPR	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.01
MAT2	397	397	397	397	397	397	397	397
N1	9105	9105	9105	9105	9105	9105	9105	9105
N2	7735	7735	7735	7735	7735	7735	7735	7596
PT30	11.8	11.8	11.8	11.8	11.8	11.8	11.8	12.5
PT4	33.3	33.3	33.3	33.3	33.3	33.3	33.3	34.5
TT30	1029	1034	1028	1028	1028	1029	1028	1035
TT4	1395	1395	1395	1395	1395	1395	1395	1410
PT9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.2
PTD	10.5	10.7	10.8	10.9	10.9	10.9	11.0	11.4
TT9	2314	2314	2314	2314	2314	2314	2314	2313
TTD	3550	3300	2750	2500	2250	2000	1690	1035
WAS/WAP	0.0371	0.0367	0.0336	0.0329	0.0313	0.0301	0.0244	0.0244
VENG	1382	1942	1982	1942	1982	1982	1942	1542
VDUCT	2618	2409	2304	2294	2033	1977	1816	1435
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	8.69	7.87	7.24	6.82	6.38	5.94	5.36	3.85

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ALT	35000	WASIZE	440	PT2/PT2P	0.868	WBL3		CL
MN	2.70	PAM	9.5	PT2	10.1	WBL4		CL
VA KTS	1551	FAM	395	TT2	406	WPEXT		500.0
MAXTHR	MAX D/H					PIN D/H	NOT LIT	
FNT	12710	10366	9719	8793	7936	6791	5796	2963
FGT	2711.0	2578.6	2435.3	2340.7	2242.6	2141.1	2041.4	1798.3
WAT	175	179	175	179	179	179	179	175
WFT	26644	19414	16677	14364	12372	10310	8811	4677
TSFC	1.741	1.766	1.693	1.635	1.587	1.569	1.521	1.579
BPR	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84
MAT2	354	354	354	354	354	354	354	354
N1	9237	9037	9037	9037	9037	9037	9037	9103
N2	7890	7890	7890	7890	7890	7890	7890	7535
PT30	15.6	15.6	15.6	15.6	15.6	15.6	15.6	16.0
PT4	40.1	40.1	40.1	40.1	40.1	40.1	40.1	41.6
TT30	1122	1122	1122	1122	1122	1122	1122	1130
TT4	1471	1471	1471	1471	1471	1471	1471	1488
PT9	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.4
PTD	14.5	14.6	14.7	14.7	14.8	14.8	14.9	15.4
TT9	2012	2012	2012	2012	2012	2012	2012	2011
TTD	3560	3300	2750	2500	2250	2000	1765	1130
WAS/WAP	0.0354	0.0332	0.0321	0.0311	0.0300	0.0288	0.0277	0.0244
VENG	1982	1982	1982	1982	1982	1982	1982	1981
VDUCT	2618	2409	2308	2204	2094	1977	1860	1498
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	6.91	6.17	5.84	5.50	5.17	4.82	4.48	3.33

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ALT	55000	WASIZE	640	PT2/PT2P	0.906	WBL3	0.
MO	2.70	PAM	1.3	PT2	17.6	WBL4	0.
VA KTS	1262	TAM	390	TT2	761	WPEXT	900.0

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	25655	22169	20532	19872	17161	15172	12581	6611
FGT	48265	44753	41141	41487	39771	37982	34691	29221
MAT	342	342	342	342	342	342	342	342
WFT	55652	39149	34911	33532	29444	22455	16598	6457
TSFC	1.675	1.777	1.635	1.618	1.556	1.493	1.467	1.359
BPR	1.15	1.99	1.59	1.95	1.95	1.95	1.95	1.94
MAT2	474	474	474	474	474	474	474	474
N1	5283	5283	5283	5283	5283	5283	5283	5283
N2	7815	7815	7815	7815	7815	7815	7815	7864
PT30	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.7
PT4	72.2	72.2	72.2	72.2	72.2	72.2	72.2	74.7
TT30	907	907	907	907	907	907	907	934
TT4	1300	1300	1300	1300	1300	1300	1300	1314
PT9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	13.3
PTD	17.9	18.3	18.9	18.7	18.9	19.0	19.5	20.3
TT9	1922	1922	1922	1922	1922	1922	1922	1921
TTD	3550	3000	2750	2500	2250	2000	1750	914
WAS/WAP	0.0376	0.0371	0.0355	0.0347	0.0334	0.0321	0.0297	0.0256
VENG	1938	1938	1938	1938	1938	1938	1938	1938
VDUCT	2618	2408	2308	2201	2093	1977	1757	1250
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	10.91	9.61	9.03	8.46	7.89	7.33	6.12	4.40

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ALT	55000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAM	1.3	PT2	19.8	WBL4	0.
VA KTS	1434	TAM	390	TT2	875	WPEXT	900.0

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	31136	26498	24344	23137	19970	17511	14274	7516
FGT	53356	49858	46504	46258	45031	43671	40434	33578
MAT	428	428	428	428	428	428	428	428
WFT	60321	46426	40943	39540	30927	26277	20666	10739
TSFC	1.934	1.752	1.678	1.658	1.551	1.501	1.468	1.443
BPR	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.86
MAT2	412	412	412	412	412	412	412	412
N1	5205	5205	5205	5205	5205	5205	5205	5268
N2	7911	7911	7911	7911	7911	7911	7911	7965
PT30	31.5	31.5	31.5	31.5	31.5	31.5	31.5	32.3
PT4	93.1	93.1	93.1	93.1	93.1	93.1	93.1	96.7
TT30	1022	1022	1022	1022	1022	1022	1022	1030
TT4	1399	1399	1399	1399	1399	1399	1399	1414
PT9	16.5	16.5	16.5	16.5	16.5	16.5	16.5	17.1
PTD	28.2	28.6	28.8	28.9	29.1	29.2	29.4	30.7
TT9	1920	1920	1920	1920	1920	1920	1920	1915
TTD	3550	3000	2750	2500	2250	2000	1750	1030
WAS/WAP	0.0370	0.0346	0.0336	0.0326	0.0312	0.0300	0.0274	0.0244
VENG	1937	1937	1937	1937	1937	1937	1937	1937
VDUCT	2618	2408	2308	2204	2093	1977	1813	1431
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDO	8.55	7.59	7.16	6.76	6.31	5.88	5.29	4.02

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ALT	55000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.
MO	2.73	PAM	1.3	PT2	26.3	WBL4	0.
VA KTS	1549	TAM	390	TT2	934	WPEXT	900.0

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	35555	29927	27208	26542	21799	18947	15956	7912
FGT	76625	69701	64082	63416	62673	59821	56828	48786
MAT	503	503	503	503	503	503	503	503
WFT	69675	52199	45657	39655	34106	28803	23709	12031
TSFC	1.931	1.752	1.674	1.516	1.565	1.520	1.486	1.519
BPR	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84
MAT2	382	382	382	382	382	382	382	382
N1	5158	5158	5158	5158	5158	5158	5158	5205
N2	8028	8028	8028	8028	8028	8028	8028	8068
PT30	40.5	40.5	40.5	40.5	40.5	40.5	40.5	41.3
PT4	111.0	111.0	111.0	111.0	111.0	111.0	111.0	115.0
TT30	1104	1104	1104	1104	1104	1104	1104	1111
TT4	1473	1473	1473	1473	1473	1473	1473	1488
PT9	19.6	19.6	19.6	19.6	19.6	19.6	19.6	22.2
PTD	36.9	37.4	37.6	37.7	37.9	38.0	38.2	39.5
TT9	1918	1918	1918	1918	1918	1918	1918	1918
TTD	3550	3000	2750	2500	2250	2000	1750	1111
WAS/WAP	0.0354	0.0332	0.0321	0.0310	0.0299	0.0288	0.0275	0.0242
VENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2408	2308	2204	2093	1977	1852	1486
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDO	7.43	6.79	6.42	6.05	5.67	5.29	4.89	3.62

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ALT	65000	WASIZE	640	PT2/PT2P	0.904	WBL3	0.
MO	2.20	PAM	C.8	PT2	8.0	WBL4	0.
VA KTS	1262	TAM	390	TT2	767	WPEXT	900.0

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	15765	13582	12581	11546	10477	9358	7245	3611
FGT	29796	27603	26601	25566	24498	23379	21265	17832
MAT	212	212	212	212	212	212	212	212
WFT	31932	24739	21854	19133	16675	14317	10445	5346
TSFC	2.025	1.821	1.737	1.657	1.592	1.530	1.442	1.453
BPR	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.08
MAT2	474	474	474	474	474	474	474	474
N1	5236	5236	5236	5236	5236	5236	5236	5271
N2	7621	7621	7621	7621	7621	7621	7621	7689
PT30	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.8
PT4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	44.2
TT30	896	896	896	896	896	896	896	903
TT4	1286	1286	1286	1286	1286	1286	1286	1301
PT9	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.9
PTD	10.2	10.5	10.6	10.7	10.8	10.9	11.1	11.9
TT9	1929	1929	1929	1929	1929	1929	1929	1927
TTD	3550	3000	2750	2500	2250	2000	1750	903
WAS/WAP	0.0398	0.0372	0.0360	0.0348	0.0335	0.0321	0.0296	0.0254
VENG	1941	1941	1941	1941	1941	1941	1941	1941
VDUCT	2618	2408	2308	2203	2093	1976	1757	1742
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	12.19	10.89	10.02	9.37	8.73	8.09	6.93	4.75

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ALT	65000	WASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAM	0.8	PT2	12.3	WBL4	0.
VA KTS	1434	TAM	390	TT2	875	WPEXT	900.0

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	19351	16411	15061	13629	12257	10777	8497	4771
FGT	39246	36353	35004	33623	32200	30720	28639	24916
MAT	265	265	265	265	265	265	265	265
WFT	37862	29068	25566	22242	19246	16374	12753	6467
TSFC	1.957	1.773	1.697	1.627	1.570	1.519	1.466	1.479
BPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
MAT2	412	412	412	412	412	412	412	412
N1	5167	5167	5167	5167	5167	5167	5167	5206
N2	7803	7803	7803	7803	7803	7803	7803	7848
PT30	18.9	18.9	18.9	18.9	18.9	18.9	18.9	19.4
PT4	55.7	55.7	55.7	55.7	55.7	55.7	55.7	57.7
TT30	1014	1014	1014	1014	1014	1014	1014	1021
TT4	1389	1389	1389	1389	1389	1389	1389	1403
PT9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	10.2
PTD	16.7	17.0	17.2	17.3	17.4	17.5	17.6	18.3
TT9	1926	1926	1926	1926	1926	1926	1926	1925
TTD	3500	3000	2750	2500	2250	2000	1667	1021
WAS/WAP	0.0371	0.0347	0.0336	0.0325	0.0313	0.0301	0.0283	0.0244
VENG	1940	1940	1940	1940	1940	1940	1940	1940
VDUCT	2618	2408	2308	2203	2093	1977	1809	1429
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDO	9.07	8.04	7.59	7.13	6.67	6.21	5.57	4.02

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ALT	65000	WASIZE	640	PT2/PT2P	0.846	WBL3	0.
MO	2.70	PAM	C.8	PT2	16.3	WBL4	0.
VA KTS	1548	TAM	390	TT2	934	WPEXT	900.0

CRUISE	MAX D/H					MIN D/H NOT LIT	
FNT	22106	19515	18073	15702	13483	11692	9753	4690
FGT	47450	43861	42219	40547	38826	37037	35105	30236
MAT	312	312	312	312	312	312	312	312
WFT	43073	32649	28537	24790	21290	17649	14651	7284
TSFC	1.945	1.766	1.691	1.631	1.579	1.535	1.521	1.553
BPR	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.93
MAT2	392	382	382	382	382	382	382	382
N1	5112	5112	5112	5112	5112	5112	5112	5150
N2	7933	7933	7933	7933	7933	7933	7933	7978
PT30	24.5	24.5	24.5	24.5	24.5	24.5	24.5	25.0
PT4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	89.1
TT30	1097	1097	1097	1097	1097	1097	1097	1103
TT4	1462	1462	1462	1462	1462	1462	1462	1477
PT9	11.8	11.8	11.8	11.8	11.8	11.8	11.8	12.2
PTD	22.1	22.4	22.6	22.7	22.8	22.9	23.0	23.8
TT9	1924	1924	1924	1924	1924	1924	1924	1923
TTD	3500	3000	2750	2500	2250	2000	1742	1103
WAS/WAP	0.0355	0.0332	0.0322	0.0311	0.0300	0.0288	0.0275	0.0241
VENG	1939	1939	1939	1939	1939	1939	1939	1939
VDUCT	2618	2408	2308	2204	2093	1977	1769	1481
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDO	8.01	7.12	6.73	6.34	5.94	5.56	5.13	3.77

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	75000	WASIZE	640	PT2/PT2P	0.906	WRL3	0.
MO	2.70	PAM	0.5	PT2	5.0	WRL4	0.
VA KTS	1299	TAM	395	TT2	776	HPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	9696	8068	7451	6916	6155	5460	4670	1756
FGT	18129	16795	16176	14938	14878	14182	12749	10637
WAT	131	131	131	131	131	131	131	131
WFT	20739	15469	14036	12225	10597	9033	6345	3039
TSFC	1.211	1.075	1.081	1.096	1.122	1.055	1.559	1.555
BPR	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.41
WAT2	474	474	474	474	474	474	474	474
N1	5156	5156	5156	5156	5156	5156	5156	5103
N2	7355	7355	7355	7355	7355	7355	7355	7413
PT30	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.1
PT4	23.8	23.8	23.8	23.8	23.8	23.8	23.8	24.7
TT30	849	849	849	885	889	889	889	904
TT4	1269	1269	1269	1269	1269	1269	1269	1284
PT9	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.4
PTD	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.4
TT9	1938	1939	1938	1938	1938	1938	1938	1937
TTD	3560	3000	2750	2500	2250	2000	1538	994
WAS/WAP	0.0147	0.0372	0.0360	0.0347	0.0334	0.0320	0.0292	0.0249
VENG	1946	1946	1946	1946	1946	1946	1944	1945
VDUCT	2617	2404	2308	2303	2093	1976	1740	1336
AJCDF	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	13.67	13.39	12.68	11.89	10.75	9.91	8.36	5.67

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ALT	75000	WASIZE	640	PT2/PT2P	0.870	WRL3	0.
MO	2.45	PAM	0.5	PT2	7.6	WRL4	0.
VA KTS	1443	TAM	395	TT2	886	HPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	11450	10005	9157	8247	7331	6459	5137	2188
FGT	24259	22613	21965	20655	19239	17766	15960	14796
WAT	164	164	164	164	164	164	164	164
WFT	23874	19721	18074	15956	13960	10106	7772	3751
TSFC	1.010	1.021	1.045	1.037	1.035	1.565	1.515	1.570
BPR	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.18
WAT2	412	412	412	412	412	412	412	412
N1	5109	5103	5108	5108	5108	5108	5104	5149
N2	7632	7632	7632	7632	7632	7632	7632	7677
PT30	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.7
PT4	32.1	32.1	32.1	32.1	32.1	32.1	32.1	33.3
TT30	1011	1011	1011	1011	1011	1011	1011	1017
TT4	1381	1381	1381	1381	1381	1381	1381	1395
PT9	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.9
PTD	9.5	9.8	9.9	10.0	10.0	10.1	10.2	10.6
TT9	1933	1933	1933	1933	1933	1933	1933	1932
TTD	3560	3000	2750	2500	2250	2000	1744	1217
WAS/WAP	0.0171	0.0367	0.0356	0.0326	0.0312	0.0299	0.0281	0.0242
VENG	1944	1944	1944	1944	1944	1944	1944	1943
VDUCT	2618	2408	2328	2203	2093	1977	1828	1423
AJCDF	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	10.14	8.96	8.44	7.92	7.41	6.88	6.19	4.62

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ALT	75000	WASIZE	640	PT2/PT2P	0.846	WRL3	0.
MO	2.70	PAM	0.5	PT2	10.1	WRL4	0.
VA KTS	1598	TAM	395	TT2	986	HPEXT	500.0

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	13591	11332	10299	9244	8158	7029	5806	2591
FGT	29361	27102	26068	25014	23929	22800	21574	18362
WAT	193	193	193	193	193	193	193	193
WFT	27040	20436	17792	15408	13181	11056	8549	4251
TSFC	1.993	1.903	1.728	1.667	1.626	1.573	1.542	1.641
BPR	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.12
WAT2	382	382	382	382	382	382	382	382
N1	5048	5069	5068	5068	5068	5068	5068	5092
N2	7795	7795	7795	7795	7795	7795	7795	7832
PT30	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.8
PT4	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40.2
TT30	1096	1096	1096	1096	1096	1096	1096	1102
TT4	1458	1458	1458	1458	1458	1458	1458	1473
PT9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.1
PTD	12.9	13.1	13.2	13.3	13.3	13.4	13.5	14.0
TT9	1931	1931	1931	1931	1931	1931	1931	1930
TTD	3560	3000	2750	2500	2250	2000	1741	1102
WAS/WAP	0.0356	0.0332	0.0321	0.0310	0.0298	0.0286	0.0273	0.0238
VENG	1941	1941	1941	1941	1941	1941	1941	1942
VDUCT	2618	2408	2308	2204	2093	1977	1748	1480
AJCDF	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	8.75	7.76	7.32	6.89	6.46	6.01	5.53	4.09

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	55000	NASIZE	640	PT2/PT2P	0.904	WBL3	0.
MO	2.70	PAM	1.5	PT2	12.9	WBL4	0.
VA KTS	1232	TAM	390	TT2	767	WPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	25424	22789	20667	18954	17269	15465	12136	6612
FGT	48621	45083	41461	41789	40083	38260	34931	29407
WAT	344	344	344	344	344	344	344	344
WFT	51152	39716	35129	31903	28492	23143	17103	8574
TSFC	1.991	1.782	1.700	1.622	1.557	1.496	1.469	1.357
BPR	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96
WAT2	478	478	478	478	478	478	478	478
N1	5300	5300	5300	5300	5300	5300	5300	5129
N2	7816	7816	7816	7816	7816	7816	7816	7685
PT30	20.9	20.9	20.9	20.9	20.9	20.9	20.9	21.5
PT4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	74.9
TT30	906	906	906	906	906	906	906	912
TT4	1301	1301	1301	1301	1301	1301	1301	1315
PT9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	13.4
PTD	17.6	18.1	18.3	18.5	18.6	18.8	19.0	20.1
TT9	1921	1921	1921	1921	1921	1921	1921	1921
TTD	3560	3000	2750	2500	2250	2000	1749	912
WAS/WAP	0.0336	0.0331	0.0359	0.0347	0.0334	0.0321	0.0297	0.0256
VENG	1937	1937	1937	1937	1937	1937	1937	1938
VDUCT	2618	2608	2308	2209	2093	1977	1757	1249
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.29	9.84	9.24	8.65	8.07	7.49	6.46	4.49

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ALT	55000	NASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.50	PAM	1.5	PT2	14.8	WBL4	0.
VA KTS	1434	TAM	390	TT2	875	WPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	32720	27756	25686	23163	20731	18254	14735	7441
FGT	44427	41475	39202	38870	36673	34475	31417	27161
WAT	448	448	448	448	448	448	448	448
WFT	43318	34080	31124	27519	23635	19578	14462	10813
TSFC	1.956	1.768	1.692	1.621	1.563	1.511	1.455	1.453
BPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
WAT2	432	432	432	432	432	432	432	432
N1	5293	5293	5293	5293	5293	5293	5293	5226
N2	7919	7919	7919	7919	7919	7919	7919	7989
PT30	30.5	30.5	30.5	30.5	30.5	30.5	30.5	31.2
PT4	94.3	94.3	94.3	94.3	94.3	94.3	94.3	97.7
TT30	1013	1013	1013	1013	1013	1013	1013	1320
TT4	1404	1404	1404	1404	1404	1404	1404	1419
PT9	16.7	16.7	16.7	16.7	16.7	16.7	16.7	17.3
PTD	26.6	27.1	27.4	27.5	27.7	27.9	28.1	29.5
TT9	1919	1919	1919	1919	1919	1919	1919	1919
TTD	3560	3000	2750	2500	2250	2000	1486	1220
WAS/WAP	0.0371	0.0347	0.0334	0.0325	0.0313	0.0300	0.0283	0.0246
VENG	1936	1936	1936	1936	1936	1936	1936	1936
VDUCT	2618	2608	2308	2209	2093	1977	1809	1429
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	9.65	8.53	8.04	7.55	7.07	6.57	5.89	4.23

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ALT	55000	NASIZE	640	PT2/PT2P	0.846	WBL3	0.
MO	2.70	PAM	1.5	PT2	26.3	WBL4	0.
VA KTS	1548	TAM	390	TT2	954	WPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	37746	31635	28825	25966	23022	15560	16607	7910
FGT	51733	48532	72081	69721	66279	63217	59864	51167
WAT	533	533	533	533	533	533	533	533
WFT	73447	55924	48708	42274	36263	30526	24790	12125
TSFC	1.946	1.768	1.699	1.628	1.575	1.529	1.493	1.533
BPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
WAT2	404	404	404	404	404	404	404	404
N1	5261	5261	5261	5261	5261	5261	5261	5302
N2	8035	8035	8035	8035	8035	8035	8035	8074
PT30	39.2	39.2	39.2	39.2	39.2	39.2	39.2	40.1
PT4	112.5	112.5	112.5	112.5	112.5	112.5	112.5	116.5
TT30	1093	1093	1093	1093	1093	1093	1093	1100
TT4	1478	1478	1478	1478	1478	1478	1478	1493
PT9	19.8	19.8	19.8	19.8	19.8	19.8	19.8	20.5
PTD	34.8	35.4	35.8	35.8	36.0	36.2	36.4	37.8
TT9	1917	1917	1917	1917	1917	1917	1917	1916
TTD	3560	3000	2750	2500	2250	2000	1739	1100
WAS/WAP	0.0355	0.0333	0.0327	0.0311	0.0299	0.0288	0.0275	0.0240
VENG	1936	1936	1936	1936	1936	1936	1936	1939
VDUCT	2618	2608	2308	2206	2093	1977	1867	1478
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.76	7.74	7.12	6.89	6.45	6.01	5.51	4.07

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ALT	65000	NASIZE	640	PT2/PT2P	0.904	WBL3	0.
MO	2.73	PAM	0.8	PT2	8.0	WBL4	0.
VA KTS	1262	TAM	390	TT2	767	WPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	15853	13656	12648	11607	10532	9405	7269	3908
FGT	29985	27791	26783	25742	24666	23540	21404	17541
WAT	214	214	214	214	214	214	214	214
WFT	32742	24970	22055	19304	16419	14436	10911	5256
TSFC	2.036	1.829	1.744	1.663	1.597	1.535	1.446	1.407
BPR	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.10
WAT2	478	478	478	478	478	478	478	478
N1	5251	5251	5251	5251	5251	5251	5251	5287
N2	7622	7622	7622	7622	7622	7622	7622	7689
PT30	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.7
PT4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	44.3
TT30	895	895	895	895	895	895	895	902
TT4	1286	1286	1286	1286	1286	1286	1286	1301
PT9	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.9
PTD	10.0	10.3	10.4	10.5	10.7	10.8	11.0	11.7
TT9	1928	1928	1928	1928	1928	1928	1928	1927
TTD	3560	3000	2750	2500	2250	2000	1539	902
WAS/WAP	0.0398	0.0372	0.0360	0.0348	0.0335	0.0321	0.0296	0.0254
VENG	1941	1941	1941	1941	1941	1941	1941	1940
VDUCT	2618	2608	2308	2203	2093	1976	1751	1241
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	12.56	11.00	10.30	9.63	8.96	8.30	7.10	4.86

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ALT	65000	NASIZE	640	PT2/PT2P	0.870	WBL3	0.
MO	2.43	PAM	0.8	PT2	12.1	WBL4	0.
VA KTS	1434	TAM	390	TT2	875	WPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	20760	17147	15746	14287	12787	11223	8971	4373
FGT	41170	38078	36658	35148	33697	32133	29881	25283
WAT	278	278	278	278	278	278	278	278
WFT	40089	30795	26981	23448	20243	17181	13235	6525
TSFC	1.979	1.790	1.714	1.641	1.593	1.531	1.475	1.492
BPR	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.08
WAT2	432	432	432	432	432	432	432	432
N1	5255	5255	5255	5255	5255	5255	5255	5293
N2	7811	7811	7811	7811	7811	7811	7811	7855
PT30	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.8
PT4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	58.9
TT30	1006	1006	1006	1006	1006	1006	1006	1012
TT4	1393	1393	1393	1393	1393	1393	1393	1408
PT9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.4
PTD	15.9	16.1	16.3	16.4	16.5	16.6	16.8	17.6
TT9	1924	1924	1924	1924	1924	1924	1924	1923
TTD	3560	3000	2750	2500	2250	2000	1659	1012
WAS/WAP	0.0372	0.0348	0.0337	0.0325	0.0313	0.0301	0.0282	0.0249
VENG	1939	1939	1935	1939	1939	1939	1939	1939
VDUCT	2618	2608	2308	2203	2093	1977	1805	1418
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	10.26	9.05	8.52	8.00	7.48	6.95	6.20	4.45

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ALT	65000	NASIZE	640	PT2/PT2P	0.846	WBL3	0.
MO	2.70	PAM	0.8	PT2	16.3	WBL4	0.
VA KTS	1549	TAM	390	TT2	954	WPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	23429	19610	17852	16044	14221	12304	10154	4687
FGT	50253	46433	44675	42897	41044	39128	36978	31510
WAT	330	330	330	330	330	330	330	330
WFT	46026	34999	30449	26403	22623	19014	15324	7356
TSFC	1.964	1.785	1.706	1.644	1.591	1.545	1.509	1.569
BPR	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.06
WAT2	404	404	404	404	404	404	404	404
N1	5222	5222	5222	5222	5222	5222	5222	5264
N2	7945	7945	7945	7945	7945	7945	7945	7986
PT30	23.7	23.7	23.7	23.7	23.7	23.7	23.7	24.2
PT4	67.7	67.7	67.7	67.7	67.7	67.7	67.7	70.1
TT30	1086	1086	1086	1086	1086	1086	1086	1093
TT4	1469	1469	1469	1469	1469	1469	1469	1483
PT9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.4
PTD	20.8	21.2	21.4	21.5	21.6	21.7	21.9	22.8
TT9	1922	1922	1922	1922	1922	1922	1922	1921
TTD	3560	3000	2750	2500	2250	2000	1732	1093
WAS/WAP	0.0356	0.0333	0.0323	0.0311	0.0300	0.0288	0.0274	0.0239
VENG	1938	1938	1938	1938	1938	1938	1938	1938
VDUCT	2618	2608	2308	2204	2093	1977	1846	1473
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.19	8.14	7.68	7.22	6.76	6.29	5.77	4.24

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ALT	75000	WASIZE	640	PT2/PT2P	0.934	WBL3		0.
MC	2.70	FAM	0.5	PT2	5.0	WBL4		0.
VA KTS	1270	TAM	395	TT2	776	HPEXT		500.0
CRUISE	MAX D/H						MIN D/H	NOT LIT
FNT	5626	5085	7469	5491	6168	5670	6762	1546
FGT	19214	18879	19263	19624	19962	19264	12896	10739
WAT	132	132	132	132	132	132	132	132
WFT	21171	19181	19216	17377	10726	9136	6366	3045
TSFC	2.230	2.001	1.901	1.812	1.739	1.670	1.572	1.547
BPR	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45
WAT2	478	478	478	478	478	478	478	478
N1	5173	5173	5173	5173	5173	5173	5173	5205
N2	7358	7358	7358	7358	7358	7358	7358	7416
PT30	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.0
PT4	23.8	23.8	23.8	23.8	23.8	23.8	23.8	24.9
TT30	987	987	987	987	987	987	987	993
TT4	1270	1270	1270	1270	1270	1270	1270	1285
PT9	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.4
PTD	5.3	5.2	5.1	5.4	5.5	5.6	5.8	6.3
TT9	1937	1937	1937	1937	1937	1937	1937	1934
TTD	3560	3300	2750	2500	2250	2000	1534	853
WAS/WAP	0.0339	0.0272	0.0360	0.0347	0.0334	0.0320	0.0292	0.0248
VENG	1965	1965	1965	1965	1965	1965	1965	1965
VDUCT	2617	2408	2308	2203	2093	1978	1738	1355
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	14.13	13.93	12.96	12.01	11.14	10.26	8.62	5.83

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ALT	75000	WASIZE	640	PT2/PT2P	0.870	WBL3		0.
MO	2.50	FAM	0.5	PT2	7.6	WBL4		0.
VA KTS	1443	TAM	395	TT2	886	HPEXT		500.0
CRUISE	MAX D/H						MIN D/H	NOT LIT
FNT	12360	10430	9541	8627	7695	6701	5277	2374
FGT	25370	23440	22551	21637	20696	19713	18287	15384
WAT	172	172	172	172	172	172	172	172
WFT	25238	23244	16830	14569	12555	10662	8070	3784
TSFC	2.040	1.869	1.786	1.692	1.634	1.582	1.529	1.594
BPR	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.30
WAT2	432	432	432	432	432	432	432	432
N1	5189	5189	5189	5189	5189	5189	5189	5231
N2	7640	7640	7640	7640	7640	7640	7640	7696
PT30	10.7	10.7	10.7	10.7	10.7	10.7	10.7	11.0
PT4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	33.7
TT30	1004	1004	1004	1004	1004	1004	1004	1009
TT4	1385	1385	1385	1385	1385	1385	1385	1400
PT9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.0
PTD	9.3	9.1	9.2	9.3	9.4	9.5	9.6	10.1
TT9	1931	1931	1931	1931	1931	1931	1931	1930
TTD	3560	3300	2750	2500	2250	2000	1657	1009
WAS/WAP	0.0372	0.0348	0.0336	0.0324	0.0312	0.0299	0.0280	0.0241
VENG	1963	1963	1963	1963	1963	1963	1963	1963
VDUCT	2618	2409	2308	2203	2093	1977	1746	1417
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	11.41	10.19	8.97	8.97	8.37	7.76	6.91	4.91

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ALT	75000	WASIZE	640	PT2/PT2P	0.846	WBL3		0.
MC	2.72	FAM	0.5	PT2	10.1	WBL4		0.
VA KTS	1558	TAM	395	TT2	966	HPEXT		500.0
CRUISE	MAX D/H						MIN D/H	NOT LIT
FNT	14366	11971	10869	9745	8587	7381	6031	2578
FGT	31054	28661	27558	26435	25277	24071	22721	19268
WAT	204	204	204	204	204	204	204	204
WFT	28963	21946	19560	16392	13593	11304	9365	4297
TSFC	2.038	1.925	1.745	1.682	1.630	1.586	1.553	1.467
BPR	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.25
WAT2	404	404	404	404	404	404	404	404
N1	5170	5170	5170	5170	5170	5170	5170	5208
N2	7809	7809	7809	7809	7809	7809	7809	7842
PT30	14.3	14.0	14.0	14.0	14.0	14.0	14.0	14.3
PT4	39.5	39.5	39.5	39.5	39.5	39.5	39.5	40.8
TT30	1087	1087	1087	1087	1087	1087	1047	1092
TT4	1465	1465	1465	1465	1465	1465	1465	1479
PT9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.2
PTD	12.1	12.3	12.4	12.7	12.6	12.7	12.8	13.3
TT9	1928	1928	1929	1928	1928	1928	1928	1928
TTD	3560	3300	2750	2500	2250	2000	1739	1092
WAS/WAP	0.0354	0.0333	0.0322	0.0310	0.0298	0.0286	0.0273	0.0236
VENG	1961	1961	1961	1961	1961	1961	1961	1961
VDUCT	2618	2409	2308	2204	2093	1977	1744	1473
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	10.06	8.98	8.38	7.96	7.35	6.83	6.26	4.61

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ALT	55000	WASIZE	640	PT2/PT2P	0.996	WBL3	C_L
MO	2.35	PAM	1.3	PT2	12.9	WBL4	C_L
VA KTS	1242	TAM	390	TT2	767	MPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	25531	21918	20326	16695	16955	15269	11998	6606
FGT	47728	44255	42643	41022	39332	37566	34344	28943
MAT	337	337	337	337	337	337	337	337
WFT	44623	38708	36335	33124	26321	22673	16840	8333
TSFC	1.706	1.770	1.689	1.617	1.569	1.489	1.406	1.352
BPR	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
MAT2	468	468	468	468	468	468	468	468
N1	9259	9259	9259	9259	9259	9259	9259	9259
N2	7814	7814	7814	7814	7814	7814	7814	7863
PT3D	21.3	21.3	21.3	21.3	21.3	21.4	21.3	21.9
PT4	72.0	72.0	72.0	72.0	72.0	72.0	72.0	74.5
TT3D	909	909	909	909	909	909	909	916
TT4	1299	1299	1299	1299	1299	1299	1299	1313
PT9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	13.3
PTD	19.2	19.6	18.8	19.0	19.2	19.3	19.6	20.6
TT9	1922	1922	1922	1922	1922	1922	1922	1922
TTD	3560	3000	2750	2500	2250	2000	1772	514
WAS/WAP	0.0336	0.0371	0.0359	0.0347	0.0334	0.0321	0.0297	0.0257
VENG	1939	1939	1938	1938	1938	1938	1938	1938
VDUCT	2618	2408	2308	2204	2093	1977	1758	1151
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	13.92	9.27	8.32	8.38	7.64	7.09	6.13	4.27

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ALT	55000	WASIZE	640	PT2/PT2P	0.870	WBL3	C_L
MO	2.40	PAM	1.3	PT2	19.8	WBL4	C_L
VA KTS	1414	TAM	390	TT2	939	MPEXT	500.0

CRUISE	MAX D/H						MIN D/H NOT LIT
FNT	29781	25691	23434	21328	19169	16917	13503	7430
FGT	60955	56465	54468	52302	50140	47891	44577	38454
MAT	412	412	412	412	412	412	412	412
WFT	57571	44388	39094	34112	29597	25284	20079	10681
TSFC	1.920	1.741	1.668	1.599	1.546	1.495	1.464	1.437
BPR	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.79
MAT2	397	397	397	397	397	397	397	397
N1	9367	9367	9367	9367	9367	9367	9367	9367
N2	7907	7907	7907	7907	7907	7907	7907	7961
PT3C	32.2	32.2	32.2	32.2	32.2	32.2	32.2	33.0
PT4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	96.0
TT3D	1030	1030	1030	1030	1030	1030	1030	1039
TT4	1396	1396	1396	1396	1396	1396	1396	1412
PT9	16.4	16.4	16.4	16.4	16.4	16.4	16.4	17.0
PTD	29.3	29.7	29.8	29.5	30.1	30.2	30.4	31.6
TT9	1921	1921	1921	1921	1921	1921	1921	1920
TTD	3560	3000	2750	2500	2250	2000	1682	1018
WAS/WAP	0.0369	0.0344	0.0335	0.0324	0.0312	0.0300	0.0284	0.0245
VENG	1939	1938	1938	1938	1938	1938	1938	1937
VDUCT	2618	2408	2308	2204	2093	1977	1817	1437
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.80	6.94	6.56	6.19	5.79	5.40	4.87	3.53

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ALT	55000	WASIZE	640	PT2/PT2P	0.846	WBL3	C_L
MO	2.70	PAM	1.3	PT2	26.3	WBL4	C_L
VA KTS	1568	TAM	390	TT2	954	MPEXT	500.0

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	32596	27424	25064	22663	20194	17830	15123	7584
FGT	70489	65417	62958	60556	58047	55522	53014	45877
MAT	466	466	466	466	466	466	466	466
WFT	62169	47475	41598	36295	31345	26621	22373	11596
TSFC	1.907	1.731	1.660	1.602	1.552	1.510	1.480	1.452
BPR	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.65
MAT2	356	356	356	356	356	356	356	356
N1	9122	9122	9122	9122	9122	9122	9122	9168
N2	8023	8023	8023	8023	8023	8023	8023	8063
PT3D	42.3	42.3	42.3	42.3	42.3	42.3	42.3	43.2
PT4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	114.6
TT3D	1123	1123	1123	1123	1123	1123	1123	1136
TT4	1471	1471	1471	1471	1471	1471	1471	1487
PT9	19.5	19.5	19.5	19.5	19.5	19.5	19.5	20.2
PTD	39.6	40.0	40.1	40.2	40.3	40.5	40.6	41.8
TT9	1919	1919	1919	1919	1919	1919	1919	1918
TTD	3560	3000	2750	2500	2250	2000	1766	1130
WAS/WAP	0.0351	0.0330	0.0320	0.0309	0.0299	0.0287	0.0277	0.0249
VENG	1937	1937	1937	1937	1937	1937	1937	1936
VDUCT	2618	2408	2308	2204	2094	1977	1861	1498
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.20
AJCDD	6.34	5.66	5.36	5.06	4.75	4.43	4.12	3.06

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ALT	61000	WASIZE	640	PT2/PT2P	0.994	WBL3	C_L
MO	2.71	PAM	1.3	PT2	8.0	WBL4	C_L
VA KTS	1262	TAM	390	TT2	767	MPEXT	500.0

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	15627	13461	12471	11446	10389	9283	7295	3911
FGT	39678	37314	36322	35297	34240	33134	31056	27662
MAT	209	209	209	209	209	209	209	209
WFT	31473	24196	21557	18981	16462	14143	10367	5130
TSFC	2.014	1.812	1.729	1.652	1.585	1.526	1.436	1.398
BPR	2.09	2.08	2.08	2.08	2.09	2.08	2.08	2.06
MAT2	468	468	468	468	468	468	468	468
N1	5214	5214	5214	5214	5214	5214	5214	5247
N2	7619	7619	7619	7619	7619	7619	7619	7685
PT3D	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.9
PT4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	44.0
YT3D	898	898	898	898	898	898	898	905
TT4	1284	1284	1284	1284	1284	1284	1284	1299
PT9	7.4	7.6	7.6	7.6	7.6	7.6	7.6	7.9
PTD	10.4	10.7	10.9	11.0	11.1	11.2	11.3	12.0
TT9	1929	1929	1929	1929	1929	1929	1929	1928
TTD	3560	3000	2750	2500	2250	2000	1762	905
WAS/WAP	0.0198	0.0372	0.0360	0.0349	0.0335	0.0321	0.0296	0.0256
VENG	1941	1941	1941	1941	1941	1941	1941	1941
VDUCT	2618	2408	2309	2201	2093	1976	1793	1343
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	11.70	10.27	9.64	9.02	8.41	7.80	6.89	4.61

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ALT	65000	WASIZE	640	PT2/PT2P	0.870	WBL3	C_L
MO	2.90	PAM	0.8	PT2	12.3	WBL4	C_L
VA KTS	1414	TAM	390	TT2	875	MPEXT	500.0

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	19829	15908	14316	13193	11836	10419	8469	4381
FGT	37933	35015	33723	32400	31041	29626	27677	23568
MAT	255	255	255	255	255	255	255	255
WFT	36188	27849	24501	21351	18495	15786	12385	6425
TSFC	1.941	1.762	1.688	1.618	1.565	1.513	1.462	1.423
BPR	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89
MAT2	397	397	397	397	397	397	397	397
N1	9094	9094	9094	9094	9094	9094	9094	9140
N2	7793	7793	7793	7793	7793	7793	7793	7843
PT3D	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.8
PT4	55.1	55.1	55.1	55.1	55.1	55.1	55.1	57.2
TT3D	1021	1021	1021	1021	1021	1021	1021	1028
TT4	1384	1384	1384	1384	1384	1384	1384	1400
PT9	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.2
PTD	17.4	17.7	17.8	17.9	17.9	18.0	18.1	18.9
TT9	1928	1928	1928	1928	1928	1928	1928	1928
TTD	3560	3000	2750	2500	2250	2000	1673	1028
WAS/WAP	0.0370	0.0347	0.0336	0.0325	0.0313	0.0301	0.0286	0.0247
VENG	1941	1941	1941	1941	1941	1941	1941	1940
VDUCT	2618	2408	2308	2204	2093	1977	1813	1430
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	8.90	7.37	6.96	6.55	6.14	5.72	5.19	3.72

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ALT	65000	WASIZE	640	PT2/PT2P	0.846	WBL3	C_L
MO	2.73	PAM	0.8	PT2	16.3	WBL4	C_L
VA KTS	1568	TAM	390	TT2	944	MPEXT	500.0

CRUISE	MAX D/H							MIN D/H NOT LIT
FNT	20359	17056	15568	14056	12501	10885	8765	4724
FGT	43805	40550	39065	37553	35994	34382	32742	29221
MAT	289	289	289	289	289	289	289	289
WFT	39084	29797	26079	22725	19592	16604	13420	7249
TSFC	1.926	1.747	1.675	1.617	1.567	1.525	1.495	1.434
BPR	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.74
MAT2	354	354	354	354	354	354	354	354
N1	9046	9046	9046	9046	9046	9046	9046	9111
N2	7926	7926	7926	7926	7926	7926	7926	7989
PT3D	25.5	25.5	25.5	25.5	25.5	25.5	25.5	26.1
PT4	66.1	66.1	66.1	66.1	66.1	66.1	66.1	69.4
TT3D	1113	1113	1113	1113	1113	1113	1113	1121
TT4	1459	1459	1459	1459	1459	1459	1459	1479
PT9	11.7	11.7	11.7	11.7	11.7	11.7	11.7	12.1
PTD	23.7	24.0	24.1	24.1	24.2	24.3	24.4	25.2
TT9	1926	1926	1926	1926	1926	1926	1926	1924
TTD	3560	3000	2750	2500	2250	2000	1757	1121
WAS/WAP	0.0353	0.0331	0.0321	0.0310	0.0299	0.0288	0.0276	0.0244
VENG	1940	1940	1940	1940	1940	1940	1940	1939
VDUCT	2618	2408	2308	2204	2094	1977	1836	1492
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	6.69	5.97	5.65	5.33	5.01	4.67	4.23	3.21

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	35000	WAS/ZE		440	PT2/PT2P	0.896	WBL3	0.
MN	.8251	P&W		0.8	PT2	9.0	WBL4	0.
VA KTS	1277.	T&W		955	TT2	378	WPERT	500.0
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	3166	9733	7610	6785	6128	5614	4727	1967
FGT	1744	1653	1603	1540	1476	1403	1264	1044
WAT	129	129	129	129	129	129	129	129
WFT	30159	15655	13771	12065	10613	8986	6265	3030
TSFC	1.176	1.049	1.050	1.049	1.049	1.036	1.062	1.041
BPR	2.45	2.60	2.63	2.69	2.66	2.60	2.67	2.39
WAT2	468	468	464	469	468	469	468	468
N1	5137	5137	5137	5137	5137	5137	5137	5137
N2	7351	7351	7351	7351	7351	7351	7351	7408
PT30	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.2
PT4	23.7	23.7	23.7	23.7	23.7	23.7	23.7	24.6
TT30	890	890	890	890	890	890	890	896
TT4	1268	1268	1268	1268	1268	1268	1268	1282
PT9	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.4
PTD	5.6	5.6	5.7	5.8	5.9	6.0	6.1	6.6
TT9	1338	1338	1338	1338	1338	1338	1338	1337
TTD	2567	2393	2350	2309	2269	2030	1563	896
WAS/WAP	0.0359	0.0372	0.0360	0.0367	0.0313	0.0320	0.0297	0.0269
VENG	1945	1945	1945	1945	1945	1945	1945	1563
VDUCT	2417	2404	2389	2351	2093	1676	1762	1237
AJCDE	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21
AJCDD	14.62	12.69	11.94	11.03	10.23	9.44	7.99	5.44

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ALT	35000	WAS/ZE		440	PT2/PT2P	0.872	WBL3	0.
MN	.8251	P&W		0.4	PT2	7.6	WBL4	0.
VA KTS	1663	T&W		965	TT2	398	WPERT	500.0
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	11427	9655	8965	8308	8147	6252	5036	2364
FGT	25173	21655	20799	19455	19097	18203	16394	14136
WAT	158	158	158	158	158	158	158	158
WFT	22745	17455	15315	13971	11675	9731	7969	3721
TSFC	1.396	1.438	1.432	1.462	1.406	1.556	1.530	1.559
BPR	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.10
WAT2	397	397	397	397	397	397	397	397
N1	9033	9033	9033	9033	9033	9033	9033	9035
N2	7623	7623	7623	7623	7623	7623	7623	7667
PT30	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.6
PT4	31.8	31.8	31.8	31.8	31.8	31.8	31.8	32.9
TT30	1017	1017	1017	1017	1017	1017	1017	1021
TT4	1377	1377	1377	1377	1377	1377	1377	1391
PT9	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.9
PTD	10.0	10.2	10.2	10.2	10.4	10.4	10.5	11.0
TT9	1935	1935	1935	1935	1935	1935	1935	1933
TTD	3550	3369	3255	3209	3250	2900	1969	1224
WAS/WAP	0.0370	0.0366	0.0335	0.0326	0.0332	0.0299	0.0241	0.0244
VENG	1944	1944	1944	1944	1944	1944	1944	1944
VDUCT	2619	2608	2598	2703	2093	1977	1931	1627
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.21
AJCDD	9.24	9.18	7.76	7.25	6.79	6.31	5.67	4.35

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ALT	7000	WAS/ZE		440	PT2/PT2P	0.844	WBL3	0.
MN	.4251	P&W		0.6	PT2	10.1	WBL4	0.
VA KTS	1554	T&W		955	TT2	956	WPERT	500.0
CRUISE	MAX D/H						MIN D/H NOT LIT	
FNT	12536	10472	9529	8549	7581	6554	5465	2503
FGT	27156	25032	24145	23143	22201	21175	20115	17223
WAT	179	179	179	179	177	179	179	179
WFT	24639	19386	16307	14186	12154	10240	8437	4210
TSFC	1.705	1.735	1.711	1.692	1.603	1.562	1.534	1.617
BPR	1.55	1.75	1.55	1.55	1.55	1.95	1.95	1.93
WAT2	354	354	354	354	354	354	354	354
N1	6931	6931	6931	6931	6931	6931	6931	6990
N2	7740	7730	7730	7730	7780	7780	7780	7819
PT30	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.6
PT4	38.2	38.2	38.2	38.2	38.2	38.2	38.2	41.6
TT30	1110	1110	1110	1110	1110	1110	1110	1116
TT4	1451	1451	1451	1451	1451	1451	1451	1467
PT9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.0
PTD	13.9	14.0	14.1	14.1	14.2	14.2	14.3	14.8
TT9	1936	1936	1936	1936	1936	1936	1936	1932
TTD	3563	3380	3280	3250	3252	3000	1793	1116
WAS/WAP	0.0351	0.0331	0.0320	0.0329	0.0298	0.0286	0.0274	0.0240
VENG	1944	1944	1944	1944	1944	1944	1944	1563
VDUCT	2618	2608	2599	2206	2093	1677	1856	1489
AJCDE	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	7.14	6.55	6.35	5.84	5.47	5.10	4.72	3.51

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.40	PAM	14.7	PT2	16.4	WBL4	0.
VA KTS	265	TAM	519	TT2	535	MPERT	500.0

PART PWR

FNT	30700	29233	26026	23340	20094	17273	14739	12456
FGT	19941	17923	15616	13751	11933	10255	8755	7403
WAT	631	591	541	478	406	331	261	197
WFT	27710	24763	22579	20118	17378	15109	13144	11420
TSFC	0.997	0.937	0.867	0.862	0.845	0.834	0.832	0.837
BPR	1.36	1.41	1.49	1.57	1.66	1.72	1.76	1.79
WAT2	625	629	625	617	586	536	526	497
N1	9836	9817	9768	9582	9260	9010	8804	8604
N2	7990	7966	7791	7658	7506	7339	7192	6964
PT30	44.1	41.0	37.9	35.6	34.3	32.7	31.9	29.1
PT4	191.8	182.7	173.9	161.7	149.1	131.9	120.4	110.1
TT30	767	728	709	695	685	673	662	650
TT4	1174	1135	1116	1091	1069	1028	1000	973
PT9	36.7	33.0	31.2	28.9	25.9	23.8	22.2	20.9
PTD	42.9	39.2	35.9	33.6	32.2	30.7	29.1	27.6
TT9	1886	1939	1831	1754	1679	1608	1541	1475
TTD	767	728	709	695	695	673	662	650
WAS/WAP	0.0303	0.0302	0.0295	0.0289	0.0281	0.0276	0.0271	0.0266
VENG	1966	1931	1895	1859	1748	1585	1438	1305
VDUCT	1722	1706	1691	1675	1670	1660	1151	1127
AJCDE	5.21	5.21	5.20	5.20	5.20	5.20	5.20	5.20
AJCDD	3.93	3.64	4.01	4.27	4.27	4.27	4.27	4.27

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.40	PAM	14.7	PT2	16.4	WBL4	0.
VA KTS	265	TAM	519	TT2	535	MPERT	500.0

PART PWR

FNT	10303	8141	5936	3555			
FGT	17427	14732	11888	8642			
WAT	513	475	429	366			
WFT	9836	8327	6854	5316			
TSFC	0.955	1.023	1.125	1.455			
BPR	1.41	1.82	1.88	1.98			
WAT2	467	432	390	323			
N1	4387	4142	3750	3187			
N2	6770	6532	6250	5855			
PT30	27.3	25.4	23.4	21.1			
PT4	100.1	89.6	77.4	62.0			
TT30	617	623	609	591			
TT4	944	915	874	820			
PT9	19.8	18.8	17.8	16.7			
PTD	25.7	23.9	22.1	20.1			
TT9	1413	1356	1307	1279			
TTD	617	624	609	591			
WAS/WAP	0.0261	0.0257	0.0252	0.0248			
VENG	1174	1049	910	746			
VDUCT	1062	988	897	778			
AJCDE	5.20	5.20	5.21	5.20			
AJCDD	4.27	4.27	4.27	4.27			

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.60	PAM	14.7	PT2	15.1	WBL4	0.
VA KTS	332	TAM	519	TT2	523	MPERT	500.0

PART PWR

FNT	32718	30100	26747	23958	22457	19212	16457	13552
FGT	16767	14428	12775	10950	26721	23216	20169	17480
WAT	651	551	653	647	615	577	542	508
WFT	26761	23966	21962	19435	16897	14518	12542	10960
TSFC	0.816	0.790	0.779	0.769	0.752	0.756	0.764	0.778
BPR	1.49	1.39	1.45	1.53	1.63	1.70	1.75	1.76
WAT2	637	637	637	632	600	563	529	496
N1	9333	9459	9395	9686	9339	9004	8768	8547
N2	7956	7852	7750	7635	7445	7317	7127	6935
PT30	41.7	39.4	34.0	33.1	32.2	30.4	29.5	26.8
PT4	192.4	176.5	166.5	156.6	140.2	125.6	113.6	103.2
TT30	738	719	701	684	673	660	647	634
TT4	1162	1121	1105	1037	1049	1015	985	957
PT9	33.1	31.5	29.3	28.0	25.1	22.7	21.3	20.1
PTD	40.2	37.2	34.3	31.4	30.3	28.6	26.9	25.2
TT9	1949	1910	1851	1791	1679	1612	1548	1485
TTD	739	719	701	684	673	661	647	634
WAS/WAP	0.0313	0.0305	0.0298	0.0291	0.0284	0.0278	0.0273	0.0268
VENG	1973	1931	1892	1853	1700	1529	1337	1245
VDUCT	1715	1199	1154	1170	1160	1150	1109	1043
AJCDE	5.21	5.21	5.21	5.21	5.21	5.20	5.20	5.20
AJCDD	3.98	3.56	3.91	4.27	4.27	4.27	4.27	4.27

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ALT	0	WASIZE	640	PT2/PT2P	1.000	WBL3	0.
MO	0.20	PAM	14.7	PT2	15.1	WBL4	0.
VA KTS	132	TAM	519	TT2	523	MPERT	500.0

PART PWR

FNT	11663	9521	6607				
FGT	14692	11986	8980				
WAT	474	426	371				
WFT	9330	7724	6184				
TSFC	0.800	0.856	0.965				
BPR	1.78	1.81	1.85				
WAT2	467	414	362				
N1	6312	5992	5506				
N2	6737	6426	6096				
PT30	25.0	23.0	20.9				
PT4	93.4	81.0	67.3				
TT30	621	606	590				
TT4	928	891	842				
PT9	19.1	18.1	17.1				
PTD	23.4	21.8	19.9				
TT9	1429	1374	1338				
TTD	621	606	590				
WAS/WAP	0.0264	0.0259	0.0255				
VENG	1118	976	823				
VDUCT	977	874	769				
AJCDE	5.21	5.20	5.20				
AJCDD	4.27	4.27	4.27				

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DOWNGRADED AT 2 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

ALT	[illegible]	WASIZE	64C	PT2/PT2P	1.000	WRL3	%
MO	[illegible]	P&W	12.2	PT2	12.6	WRL4	%
VA KTS	190	TAM	421	TT2	505	HPERT	100.0

PART PWR

FNT	24144	24823	25161	23258	20661	17590	14986	12760
FGT	37533	37866	38083	37141	34376	31064	28293	25738
MAT	661	661	661	661	660	507	476	466
WFT	22369	21761	19333	17545	15326	13034	11345	9669
TSFC	0.694	0.734	0.781	0.783	0.762	0.741	0.746	0.767
BPR	1.32	1.36	1.43	1.45	1.57	1.67	1.74	1.77
MAT2	493	494	492	490	423	485	469	516
N1	9395	9438	9457	9402	9385	9100	8817	8587
N2	7414	7430	7483	7394	7447	7284	7099	6903
PT30	34.0	33.6	31.2	28.6	27.5	26.3	24.7	23.1
PT4	193.7	191.6	185.6	178.3	174.1	111.3	93.4	83.9
TT30	722	714	696	665	658	646	632	622
TT4	1171	1169	1094	1066	1038	1001	969	940
PT9	34.7	33.4	31.1	34.8	27.5	26.1	25.6	25.3
PTD	31.7	32.9	29.5	28.3	25.9	24.7	23.3	21.7
TT9	1515	1511	1432	1754	1678	1608	1542	1477
TTD	772	726	686	665	658	646	632	619
WAS/WAP	0.0317	0.0310	0.0301	0.0296	0.0289	0.0282	0.0276	0.0271
VENG	1479	1932	1893	1851	1807	1605	1447	1298
VDUCT	1202	1197	1172	1157	1147	1137	1125	1061
AJCDE	5.21	5.21	5.21	5.21	5.21	5.20	5.20	5.20
AJCDD	5.24	5.49	5.42	4.27	4.27	4.27	4.27	4.27

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ALT	5000	WASIZE	64C	PT2/PT2P	1.000	WRL3	%
MO	[illegible]	P&W	12.2	PT2	12.6	WRL4	%
VA KTS	190	TAM	421	TT2	505	HPERT	100.0

PART PWR

FNT	19773	19506	19307	19312				
FGT	33944	33736	33675	33994				
MAT	417	419	397	405				
WFT	8533	8269	8017	8034				
TSFC	0.775	0.817	0.826	0.844				
BPR	1.79	1.81	1.85	1.89				
MAT2	411	419	384	392				
N1	8303	8076	7856	7655				
N2	6710	6633	6506	6305				
PT30	21.6	19.9	18.1	17.2				
PT4	91.4	71.9	60.7	54.0				
TT30	537	502	476	462				
TT4	912	878	836	804				
PT9	14.9	15.4	14.5	14.1				
PTD	22.4	19.8	17.7	16.4				
TT9	1457	1366	1301	1237				
TTD	624	592	577	562				
WAS/WAP	0.0257	0.0252	0.0258	0.0244				
VENG	1134	1024	873	743				
VDUCT	934	908	808	739				
AJCDE	5.21	5.20	5.20	5.21				
AJCDD	4.27	4.27	4.27	4.27				

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ALT	[illegible]	WASIZE	64C	PT2/PT2P	1.000	WRL3	%
MO	[illegible]	P&W	12.2	PT2	13.7	WRL4	%
VA KTS	263	TAM	501	TT2	517	HPERT	100.0

PART PWR

FNT	26903	25261	23610	21937	18561	15902	13462	11395
FGT	35979	33340	31949	29622	26250	23091	20482	17803
MAT	597	547	597	593	595	534	504	477
WFT	24569	21330	20065	18121	15883	13488	11679	10135
TSFC	0.890	0.869	0.857	0.869	0.856	0.856	0.866	0.889
BPR	1.32	1.37	1.44	1.52	1.61	1.70	1.76	1.78
MAT2	561	561	561	537	507	574	544	513
N1	9540	9374	9313	9211	9388	9064	8938	8636
N2	7929	7928	7925	7814	7866	7706	7552	6931
PT30	38.0	35.5	32.9	30.9	29.6	28.1	26.6	25.0
PT4	184.7	159.8	142.7	144.3	129.7	116.2	105.4	96.2
TT30	732	714	695	675	669	658	648	634
TT4	1134	1114	1098	1078	1045	1012	983	956
PT9	30.3	28.9	27.4	25.4	23.1	20.8	19.1	17.9
PTD	36.7	34.0	31.2	28.5	27.6	26.4	25.1	23.8
TT9	1799	1710	1632	1754	1678	1606	1536	1470
TTD	732	714	695	675	669	658	648	633
WAS/WAP	0.0316	0.0307	0.0300	0.0299	0.0286	0.0279	0.0274	0.0269
VENG	1970	1937	1893	1853	1814	1456	1476	1358
VDUCT	1210	1195	1179	1166	1156	1147	1136	1124
AJCDE	5.21	5.21	5.21	5.21	5.21	5.20	5.20	5.20
AJCDD	5.29	5.59	5.90	4.27	4.27	4.27	4.27	4.27

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ALT	5000	WASIZE	64C	PT2/PT2P	1.000	WRL3	%
MO	[illegible]	P&W	12.2	PT2	13.7	WRL4	%
VA KTS	263	TAM	501	TT2	517	HPERT	100.0

PART PWR

FNT	24417	23438	22695	19802	17575			
FGT	34422	33319	32864	31157	29026			
MAT	469	419	375	336	297			
WFT	8739	7438	6147	4914	4172			
TSFC	0.919	0.976	1.033	1.252	1.429			
BPR	1.81	1.83	1.84	1.88	2.02			
MAT2	443	449	407	369	319			
N1	6422	6191	5976	5612	5052			
N2	6735	6524	6237	5921	5642			
PT30	23.5	21.6	20.1	18.4	17.2			
PT4	87.4	78.7	68.6	57.1	48.9			
TT30	621	608	596	578	564			
TT4	929	895	863	817	773			
PT9	16.9	16.0	15.1	14.3	13.7			
PTD	22.1	20.6	19.0	17.6	16.5			
TT9	1627	1547	1496	1255	1252			
TTD	621	608	596	578	564			
WAS/WAP	0.0256	0.0259	0.0255	0.0250	0.0248			
VENG	1223	1036	958	806	709			
VDUCT	1079	1004	915	815	737			
AJCDE	5.29	5.29	5.20	5.21	5.21			
AJCDD	4.27	4.27	4.27	4.27	4.27			

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ALT	5000	WASIZE	64C	PT2/PT2P	1.000	WRL3	%
MO	0.60	P&W	12.2	PT2	15.6	WRL4	%
VA KTS	390	TAM	501	TT2	537	HPERT	100.0

PART PWR

FNT	28[illegible]	26564	22520	20018	17186	14856	12776	10815
FGT	39935	37959	35911	33107	29625	26759	24151	21432
MAT	655	655	655	654	608	582	556	529
WFT	25665	23338	21279	18882	16343	14292	12525	10925
TSFC	0.947	0.950	0.944	0.943	0.951	0.962	0.980	1.010
BPR	1.35	1.42	1.50	1.59	1.67	1.74	1.78	1.80
MAT2	629	629	628	613	583	559	533	507
N1	5883	5808	5739	5552	5240	5036	4901	4689
N2	7987	7893	7777	7649	7498	7333	7159	6976
PT30	41.6	38.7	35.7	33.7	32.5	31.3	29.9	28.4
PT4	190.8	172.3	163.8	151.7	136.5	125.0	115.2	106.0
TT30	748	728	710	696	688	677	667	657
TT4	1155	1139	1116	1099	1057	1031	1005	980
PT9	32.8	31.1	29.4	27.1	24.3	22.2	20.3	19.1
PTD	40.0	38.5	33.8	31.7	30.5	29.4	28.1	26.7
TT9	1948	1910	1832	1754	1679	1603	1530	1459
TTD	748	728	710	696	688	678	667	658
WAS/WAP	0.0308	0.0301	0.0294	0.0287	0.0281	0.0275	0.0270	0.0265
VENG	1970	1932	1893	1854	1815	1745	1597	1455
VDUCT	1222	1207	1191	1180	1172	1164	1156	1147
AJCDE	5.21	5.21	5.20	5.21	5.20	5.21	5.20	5.20
AJCDD	3.35	3.67	4.05	4.27	4.27	4.27	4.27	4.27

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ALT	5000	WASIZE	64C	PT2/PT2P	1.000	WRL3	%
MO	0.60	P&W	12.2	PT2	15.6	WRL4	%
VA KTS	390	TAM	501	TT2	537	HPERT	100.0

PART PWR

FNT	8962	7168	5955	3836	2300	1426		
FGT	15193	13911	14604	13126	9756	9483		
MAT	501	471	442	409	384	360		
WFT	9625	8363	6853	5626	4697	3554		
TSFC	1.056	1.125	1.236	1.644	1.955	2.591		
BPR	1.86	1.87	1.92	1.97	2.07	2.13		
MAT2	480	452	424	399	349	326		
N1	4495	4292	4077	3737	3308	3057		
N2	6777	6572	6376	6126	5831	5639		
PT30	26.9	25.2	23.5	21.7	20.0	19.1		
PT4	96.7	87.8	79.5	65.1	56.3	52.4		
TT30	645	633	621	601	579	585		
TT4	953	926	899	862	813	794		
PT9	17.9	16.9	16.0	15.1	14.3	13.9		
PTD	25.3	23.7	22.1	20.5	18.9	18.0		
TT9	1393	1332	1265	1217	1173	1155		
TTD	645	634	621	606	593	587		
WAS/WAP	0.0260	0.0255	0.0251	0.0246	0.0241	0.0239		
VENG	1317	1187	1065	926	786	712		
VDUCT	1136	1126	1078	994	913	860		
AJCDE	5.20	5.20	5.20	5.20	5.20	5.21		
AJCDD	4.27	4.27	4.27	4.27	4.27	4.27		

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	15000	WASIZE	640	PT2/PT2P	1.000	WRL3		C_x
MO	0.60	PAM	4.3	PT2	10.6	WRL4		C_z
VA KTS	476	TAM	465	TT2	449	WPERT		500.0
PART PWR								
FNT	20602	19308	17934	16465	14918	12290	10432	8523
FGT	30071	28776	27403	25926	23999	20779	19316	16709
WAT	640	640	640	640	640	636	613	596
WFT	15698	13915	16384	15007	13110	11227	9629	8436
TSFC	0.946	0.928	0.914	0.911	0.908	0.913	0.928	0.965
BPR	1.32	1.37	1.43	1.49	1.57	1.67	1.75	1.80
WAT2	656	656	656	654	628	593	502	459
N1	5976	5718	5870	5815	5647	5352	4883	4717
N2	7469	7751	7652	7547	7408	7251	7076	6894
PT30	30.4	28.4	26.3	24.2	23.3	22.5	21.5	20.6
PT4	133.3	125.7	121.4	118.0	107.3	95.5	86.1	79.7
TT30	719	697	679	662	651	641	631	627
TT4	1117	1095	1078	1060	1030	996	966	941
PT9	24.6	23.3	22.2	21.1	19.1	17.0	15.3	14.0
PTD	29.3	27.3	25.5	23.7	21.9	21.2	20.2	19.6
TT9	1492	1413	1434	1755	1579	1404	1230	1055
TTD	719	697	679	662	652	641	631	627
WAS/WAP	0.0319	0.0311	0.0304	0.0297	0.0290	0.0283	0.0277	0.0272
VENG	1971	1933	1896	1854	1815	1775	1725	1667
VDUCT	1194	1160	1165	1151	1142	1133	1124	1115
AJCDE	5.20	5.20	5.20	5.20	5.21	5.21	5.20	5.21
AJCDO	3.26	3.51	3.84	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WRL3		C_x
MO	0.60	PAM	4.3	PT2	10.6	WRL4		C_z
VA KTS	476	TAM	465	TT2	449	WPERT		500.0
PART PWR								
FNT	20602	19308	17934	16465	14918	12290	10432	8523
FGT	30071	28776	27403	25926	23999	20779	19316	16709
WAT	640	640	640	640	640	636	613	596
WFT	15698	13915	16384	15007	13110	11227	9629	8436
TSFC	0.946	0.928	0.914	0.911	0.908	0.913	0.928	0.965
BPR	1.32	1.37	1.43	1.49	1.57	1.67	1.75	1.80
WAT2	656	656	656	654	628	593	502	459
N1	5976	5718	5870	5815	5647	5352	4883	4717
N2	7469	7751	7652	7547	7408	7251	7076	6894
PT30	30.4	28.4	26.3	24.2	23.3	22.5	21.5	20.6
PT4	133.3	125.7	121.4	118.0	107.3	95.5	86.1	79.7
TT30	719	697	679	662	651	641	631	627
TT4	1117	1095	1078	1060	1030	996	966	941
PT9	24.6	23.3	22.2	21.1	19.1	17.0	15.3	14.0
PTD	29.3	27.3	25.5	23.7	21.9	21.2	20.2	19.6
TT9	1492	1413	1434	1755	1579	1404	1230	1055
TTD	719	697	679	662	652	641	631	627
WAS/WAP	0.0319	0.0311	0.0304	0.0297	0.0290	0.0283	0.0277	0.0272
VENG	1971	1933	1896	1854	1815	1775	1725	1667
VDUCT	1194	1160	1165	1151	1142	1133	1124	1115
AJCDE	5.20	5.20	5.20	5.20	5.21	5.21	5.20	5.21
AJCDO	3.26	3.51	3.84	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WRL3		C_x
MO	0.80	PAM	4.3	PT2	12.6	WRL4		C_z
VA KTS	501	TAM	465	TT2	525	WPERT		500.0
PART PWR								
FNT	21344	19775	18146	16362	13973	11908	10310	8823
FGT	35642	34072	32444	30220	27202	24598	22498	20516
WAT	644	644	644	634	567	481	464	444
WFT	21580	19681	17952	16011	13804	11599	10431	9232
TSFC	1.010	0.996	0.980	0.969	0.995	1.008	1.021	1.045
BPR	1.14	1.18	1.24	1.34	1.46	1.71	1.78	1.82
WAT2	696	696	696	674	593	564	542	520
N1	5911	5660	5776	5681	5276	5026	4969	4724
N2	7935	7936	7830	7606	7463	7289	7115	6940
PT30	34.4	31.9	29.5	27.7	26.8	25.7	24.8	23.8
PT4	150.6	143.9	137.1	127.6	116.7	103.8	95.8	88.6
TT30	736	717	699	684	674	665	656	648
TT4	1141	1122	1104	1079	1045	1016	992	968
PT9	27.3	26.0	24.6	22.9	20.6	18.5	16.9	15.6
PTD	33.1	30.6	29.0	26.1	25.2	24.2	23.3	22.3
TT9	1910	1912	1833	1756	1680	1605	1528	1452
TTD	736	717	699	684	676	665	656	648
WAS/WAP	0.0311	0.0304	0.0297	0.0290	0.0283	0.0277	0.0272	0.0267
VENG	1932	1932	1893	1854	1815	1775	1733	1691
VDUCT	1211	1197	1182	1170	1161	1153	1146	1139
AJCDE	5.21	5.20	5.21	5.20	5.20	5.20	5.21	5.21
AJCDO	3.16	3.66	4.01	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WRL3		C_x
MO	0.80	PAM	4.3	PT2	12.6	WRL4		C_z
VA KTS	501	TAM	465	TT2	525	WPERT		500.0
PART PWR								
FNT	21344	19775	18146	16362	13973	11908	10310	8823
FGT	35642	34072	32444	30220	27202	24598	22498	20516
WAT	644	644	644	634	567	481	464	444
WFT	21580	19681	17952	16011	13804	11599	10431	9232
TSFC	1.010	0.996	0.980	0.969	0.995	1.008	1.021	1.045
BPR	1.14	1.18	1.24	1.34	1.46	1.71	1.78	1.82
WAT2	696	696	696	674	593	564	542	520
N1	5911	5660	5776	5681	5276	5026	4969	4724
N2	7935	7936	7830	7606	7463	7289	7115	6940
PT30	34.4	31.9	29.5	27.7	26.8	25.7	24.8	23.8
PT4	150.6	143.9	137.1	127.6	116.7	103.8	95.8	88.6
TT30	736	717	699	684	674	665	656	648
TT4	1141	1122	1104	1079	1045	1016	992	968
PT9	27.3	26.0	24.6	22.9	20.6	18.5	16.9	15.6
PTD	33.1	30.6	29.0	26.1	25.2	24.2	23.3	22.3
TT9	1910	1912	1833	1756	1680	1605	1528	1452
TTD	736	717	699	684	676	665	656	648
WAS/WAP	0.0311	0.0304	0.0297	0.0290	0.0283	0.0277	0.0272	0.0267
VENG	1932	1932	1893	1854	1815	1775	1733	1691
VDUCT	1211	1197	1182	1170	1161	1153	1146	1139
AJCDE	5.21	5.20	5.21	5.20	5.20	5.20	5.21	5.21
AJCDO	3.16	3.66	4.01	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WRL3		C_x
MO	0.83	PAM	4.3	PT2	12.6	WRL4		C_z
VA KTS	501	TAM	465	TT2	525	WPERT		500.0
PART PWR								
FNT	21344	19775	18146	16362	13973	11908	10310	8823
FGT	35642	34072	32444	30220	27202	24598	22498	20516
WAT	644	644	644	634	567	481	464	444
WFT	21580	19681	17952	16011	13804	11599	10431	9232
TSFC	1.010	0.996	0.980	0.969	0.995	1.008	1.021	1.045
BPR	1.14	1.18	1.24	1.34	1.46	1.71	1.78	1.82
WAT2	696	696	696	674	593	564	542	520
N1	5911	5660	5776	5681	5276	5026	4969	4724
N2	7935	7936	7830	7606	7463	7289	7115	6940
PT30	34.4	31.9	29.5	27.7	26.8	25.7	24.8	23.8
PT4	150.6	143.9	137.1	127.6	116.7	103.8	95.8	88.6
TT30	736	717	699	684	674	665	656	648
TT4	1141	1122	1104	1079	1045	1016	992	968
PT9	27.3	26.0	24.6	22.9	20.6	18.5	16.9	15.6
PTD	33.1	30.6	29.0	26.1	25.2	24.2	23.3	22.3
TT9	1910	1912	1833	1756	1680	1605	1528	1452
TTD	736	717	699	684	676	665	656	648
WAS/WAP	0.0311	0.0304	0.0297	0.0290	0.0283	0.0277	0.0272	0.0267
VENG	1932	1932	1893	1854	1815	1775	1733	1691
VDUCT	1211	1197	1182	1170	1161	1153	1146	1139
AJCDE	5.21	5.20	5.21	5.20	5.20	5.20	5.21	5.21
AJCDO	3.16	3.66	4.01	4.27	4.27	4.27	4.27	4.27

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WRL3		C_x
MO	0.83	PAM	4.3	PT2	12.6	WRL4		C_z
VA KTS	501	TAM	465	TT2	525	WPERT		500.0
PART PWR								
FNT	7615	6237	4790	3638	2505	1442	962	
FGT	18531	16658	14835	13393	11159	9596	8720	
WAT	435	404	353	360	337	330	336	
WFT	8022	6983	5878	4998	4118	3509	2965	
TSFC	1.031	1.140	1.230	1.376	1.644	2.295	3.117	
BPR	1.96	1.91	1.94	1.59	2.02	2.16	2.20	
WAT2	467	472	447	421	344	302	268	
N1	6520	6395	4221	4021	3756	3413	3207	
N2	6756	6567	6353	6162	5982	5727	5546	
PT30	22.7	21.6	20.4	19.2	17.9	16.6	15.4	
PT4	81.6	76.3	67.7	61.2	56.7	47.0	43.2	
TT30	539	529	519	508	496	483	476	
TT4	944	918	893	866	837	800	780	
PT9	14.3	13.2	12.3	11.5	10.9	10.2	9.9	
PTD	21.4	20.4	19.2	18.1	16.8	15.6	15.0	
TT9	1378	1307	1240	1176	1116	1069	1041	
TTD	640	630	619	608	596	583	576	
WAS/WAP	0.0262	0.0256	0.0251	0.0247	0.0242	0.0237	0.0234	
VENG	1455	1403	1265	1131	1003	862	794	
VDUCT	1131	1123	1113	1103	1092	1076	1036	
AJCDE	5.20	5.20	5.20	5.21	5.20	5.20	5.20	
AJCDO	4.27	4.27	4.27	4.27	4.27	4.27	4.27	

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WRL3		C_x
MO	0.90	PAM	4.3	PT2	14.0	WRL4		C_z
VA KTS	564	TAM	465	TT2	541	WPERT		500.0
PART PWR								
FNT	22932	20990	19331	17651	13816	11583	10391	9552
FGT	39115	37376	35618	33935	29728	27230	25547	22970
WAT	596	584	564	545	538	515	495	476
WFT	22639	20900	19170	16694	16331	12547	11073	9713
TSFC	1.039	1.025	1.026	1.027	1.037	1.049	1.066	1.091
BPR	1.37	1.44	1.52	1.62	1.70	1.75	1.79	1.83
WAT2	629	629	629	605	575	551	530	509
N1	5867	5765	5720	5690	5189	5006	4860	4727
N2	7991	7576	7769	7631	7479	7310	7138	6965
PT30	34.9	34.2	31.6	30.1	28.9	27.9	26.8	25.8
PT4	169.1	152.3	144.7	135.3	117.7	110.1	102.1	94.7
TT30	744	729	711	695	689	680	671	664
TT4	1147	1137	1119	1084	1057	1032	1008	985
PT9	29.0	27.5	26.0	23.6	21.3	19.5	18.0	16.6
PTD	35.6	32.6	29.8	28.9	27.2	26.2	25.2	24.3
TT9	1990	1911	1832	1756	1681	1604	1528	1451
TTD	744	729	711	695	689	680	672	664
WAS/WAP	0.0337	0.0329	0.0292	0.0265	0.0280	0.0274	0.0269	0.0264
VENG	1977	1932	1893	1856	1816	1775	1733	1691
VDUCT	1223	1207	1192	1182	1174	1166	1159	1153
AJCDE	5.21	5.21	5.21	5.21	5.20	5.21	5.21	5.21
AJCDO	5.61	5.74	6.12	6.27	6.27	6.27	6.27	6.27

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ALT	15000	WASIZE	640	PT2/PT2P	1.000	WRL3		C_x
MO	0.90	PAM	4.3	PT2	14.0	WRL4		C_z
VA KTS	564	TAM	465	TT2	541	WPERT		500.0
PART PWR								
FNT	7461	6104	4827	3663	2546	2029		
FGT	20363	19005	17715	15274	13485	12624		
WAT	456	436	415	393	370	358		
WFT	8438	7276	6220	5255	4376	3970		
TSFC	1.131	1.192	1.289	1.442	1.720	1.957		
BPR	1.87	1.92	1.96	2.00	2.06	2.07		
WAT2	488	466	446	421	396	383		
N1	6976	4621	6264	4081	3918	3702		
N2	6774	6583	6392	6209	6037	5947		
PT30	24.8	23.7	22.6	21.3	20.1	19.4		
PT4	97.2	89.1	79.3	86.6	59.8	58.3		
TT30	695	666	637	627	616	612		
TT4	961	936	912	884	858	843		
PT9	15.2	14.0	13.0	12.1	11.4	11.0		
PTD	23.3	22.3	21.2	20.1	18.9	18.3		
TT9	1376	1305	1233	1166	1104	1076		
TTD	696	666	636	627	616	610		
WAS/WAP	0.0259	0.0254	0.0245	0.0244	0.0240	0.0237		
VENG	1651	1482	1339	1200	1073	1006		
VDUCT	1244	1237	1229	1220	1210	1209		
AJCDE	5.29	5.19	5.22	5.21	5.20	5.20		
AJCDO	4.27	4.27	4.27	4.27	4.27	4.27		

OCT 7, 1964

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

ALT	35150	mASIZE	640	PT2/PT2P	1.000	mBL3	0.
RO	0.90	PAM	5.3	PT2	5.6	mBL4	0.
VA KTS	516	TAM	390	TT2	455	HPEXT	500.0

PART PWR

FNT	9437	3678	2972	2363				
FGT	13311	9290	8252	7366				
WAT	217	206	195	185				
WFT	6346	3727	3210	2733				
TSFC	0.4941	1.027	1.060	1.157				
BPR	1.667	1.492	1.499	2.004				
WAT2	537	509	487	457				
N1	6515	6351	6180	6016				
N2	9495	9288	9066	8879				
PT30	10.9	10.4	9.9	9.4				
PT4	41.2	37.4	33.7	30.5				
TT30	568	560	551	542				
TT4	859	833	808	782				
PT9	7.3	6.6	5.9	5.4				
PT0	15.1	9.8	9.3	8.8				
TT9	1382	1307	1233	1161				
TT0	568	559	550	542				
WAS/WAP	0.3274	0.0268	0.0262	0.0256				
VENG	1651	1607	1518	1359				
VDUCT	1066	1058	1049	1042				
AJCDE	5.21	5.20	5.19	5.21				
AJCDD	4.27	4.27	4.27	4.27				

APR 24, 1964

ALT	35150	mASIZE	640	PT2/PT2P	1.000	mBL3	0.
RO	0.90	PAM	5.3	PT2	5.6	mBL4	0.
VA KTS	516	TAM	390	TT2	455	HPEXT	500.0

PART PWR

FNT	11468	10817	10085	9296	8528	7509	6263	5224
FGT	16956	16316	17583	16777	15810	14482	12833	11390
WAT	277	277	277	276	269	257	242	228
WFT	11321	10512	9718	8945	8073	7[illegible]2	5969	5078
TSFC	0.987	0.977	0.966	0.957	0.967	0.944	0.[illegible]	0.977
BPR	1.437	1.491	1.545	1.650	1.752	1.958	1.871	1.881
WAT2	665	665	665	683	665	637	598	563
N1	9127	8885	8647	8400	8156	7870	7483	6886
N2	7620	7529	7438	7333	7212	7071	6891	6693
PT30	15.8	15.9	15.6	15.4	15.0	12.6	12.0	11.4
PT4	75.3	72.9	70.1	67.2	65.7	2[illegible].3	50.9	45.2
TT30	663	648	631	616	608	598	587	577
TT4	1056	1039	1022	1004	981	953	916	864
PT9	13.8	13.3	12.7	12.1	11.4	10.4	9.1	8.0
PT0	15.2	15.2	13.9	12.6	12.3	11.8	11.3	10.8
TT9	1998	1918	1834	1761	1683	1606	1532	1459
TT0	663	668	631	616	608	598	587	577
WAS/WAP	0.0329	0.0322	0.0315	0.0308	0.0302	0.0295	0.0287	0.0280
VENG	1776	1935	1896	1857	1816	1776	1736	1695
VDUCT	1151	1139	1126	1111	1096	1085	1066	1076
AJCDE	5.21	5.21	5.21	5.20	5.21	5.21	5.21	5.20
AJCDD	4.32	4.34	4.37	4.27	4.27	4.27	4.27	4.27

APR 24, 1964

ALT	35150	mASIZE	640	PT2/PT2P	1.000	mBL3	0.
RO	0.90	PAM	5.3	PT2	5.6	mBL4	0.
VA KTS	516	TAM	390	TT2	455	HPEXT	500.0

PART PWR

FNT	3[illegible]15	2397						
FGT	7442	6505						
WAT	193	171						
WFT	3125	2662						
TSFC	1.[illegible]31	1.105						
BPR	1.[illegible]9	2.04						
WAT2	446	401						
N1	6198	5993						
N2	6[illegible]95	5966						
PT30	9.2	8.8						
PT4	31.6	29.4						
TT30	535	529						
TT4	797	765						
PT9	5.8	5.1						
PT0	8.6	8.1						
TT9	1251	1183						
TT0	539	535						
WAS/WAP	0.0266	0.0260						
VENG	1644	1702						
VDUCT	1049	1035						
AJCDE	5.21	5.21						
AJCDD	4.27	4.27						

OCT 7, 1964

ALT	35150	mASIZE	640	PT2/PT2P	1.000	mBL3	0.
RO	0.90	PAM	5.3	PT2	5.6	mBL4	0.
VA KTS	459	TAM	390	TT2	440	HPEXT	500.0

PART PWR

FNT	5901	5151	4381	3619	2885	2195	1626	1187
FGT	15932	15203	14453	13675	12837	11861	10619	9119
WAT	243	233	221	207	191	173	154	134
WFT	3215	2924	2632	2338	2042	1742	1440	1140
TSFC	0.960	0.939	0.924	0.915	0.916	0.931	0.952	0.979
BPR	1.62	1.68	1.69	1.64	1.63	1.76	1.85	1.92
WAT2	785	685	680	555	626	582	552	526
N1	6703	5966	5852	5567	5176	4791	4565	4389
N2	7307	7454	7183	7061	6906	6712	6490	6161
PT30	14.1	13.6	12.9	11.7	11.7	10.7	10.2	9.7
PT4	65.2	62.6	59.9	56.7	50.6	43.0	39.2	35.7
TT30	626	615	607	596	578	566	557	545
TT4	1038	981	971	967	936	878	843	824
PT9	11.9	11.3	10.9	12.1	9.0	7.8	7.0	6.3
PT0	13.5	12.3	11.3	11.0	10.5	10.1	9.6	9.1
TT9	1957	1779	1705	1629	1548	1474	1400	1326
TT0	626	615	597	585	579	567	557	545
WAS/WAP	0.0321	0.0314	0.0307	0.0301	0.0293	0.0285	0.0277	0.0272
VENG	1705	1966	1925	1785	1744	1704	1661	1617
VDUCT	1135	1105	1091	1076	1064	1056	1046	1069
AJCDE	5.21	5.21	5.21	5.21	5.20	5.20	5.19	5.21
AJCDD	3.60	3.98	4.27	4.27	4.27	4.27	4.27	4.27

OCT 7, 1964

ALT	35150	mASIZE	640	PT2/PT2P	1.000	mBL3	0.
RO	0.90	PAM	5.3	PT2	5.6	mBL4	0.
VA KTS	459	TAM	390	TT2	440	HPEXT	500.0

PART PWR

FNT	5901	5151	4381	3619	2885	2195	1626	1187
FGT	15932	15203	14453	13675	12837	11861	10619	9119
WAT	243	233	221	207	191	173	154	134
WFT	3215	2924	2632	2338	2042	1742	1440	1140
TSFC	0.960	0.939	0.924	0.915	0.916	0.931	0.952	0.979
BPR	1.62	1.68	1.69	1.64	1.63	1.76	1.85	1.92
WAT2	785	685	680	555	626	582	552	526
N1	6703	5966	5852	5567	5176	4791	4565	4389
N2	7307	7454	7183	7061	6906	6712	6490	6161
PT30	14.1	13.6	12.9	11.7	11.7	10.7	10.2	9.7
PT4	65.2	62.6	59.9	56.7	50.6	43.0	39.2	35.7
TT30	626	615	607	596	578	566	557	545
TT4	1038	981	971	967	936	878	843	824
PT9	11.9	11.3	10.9	12.1	9.0	7.8	7.0	6.3
PT0	13.5	12.3	11.3	11.0	10.5	10.1	9.6	9.1
TT9	1957	1779	1705	1629	1548	1474	1400	1326
TT0	626	615	597	585	579	567	557	545
WAS/WAP	0.0321	0.0314	0.0307	0.0301	0.0293	0.0285	0.0277	0.0272
VENG	1705	1966	1925	1785	1744	1704	1661	1617
VDUCT	1135	1105	1091	1076	1064	1056	1046	1069
AJCDE	5.21	5.21	5.21	5.21	5.20	5.20	5.19	5.21
AJCDD	3.60	3.98	4.27	4.27	4.27	4.27	4.27	4.27

OCT 7, 1964

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

INITIAL PRODUCTION ENGINE

Page	T_{AMB}	Power Setting	Flow Schedule
B-D122	STD. Day	Take-Off	Base
	STD. Day	Max Thrust	Base
to	STD. Day	Cruise	Base
	STD. Day	Cruise	High
	STD. Day	Cruise	Low
B-D124	STD. Day	Part Power	Base

ALT	0	WASIZE	64C	PT2/PT2P	1.CCC	WBL3	C.
PC	C.	PAP	14.7	PT2	14.7	WBL4	C.
VA KTS	C	TAP	519	TT2	519	WPERT	C.

TAKE OFF MAX C/P — MIN C/P NOT LIT

FNT	51501	48241	44708	45114	43455	41693	37057	31483
FGT	51501	48241	44708	45114	43455	41693	37057	31483
WAT	640	640	640	640	640	640	640	640
WFT	96410	77013	69166	61849	55174	48027	35057	21643
TSFC	1.872	1.598	1.481	1.371	1.279	1.171	0.996	C.687
BPR	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29
WAT2	640	640	640	640	640	640	640	640
N1	5907	5907	5907	5907	5907	5907	5907	5558
N2	7990	7990	7990	7990	7990	7990	7990	8004
PT3D	39.7	39.7	39.7	39.7	39.7	39.7	39.7	41.6
PT4	176.7	176.7	176.7	176.7	176.7	176.7	176.7	181.4
TT3D	726	726	726	726	726	726	726	740
TT4	1128	1128	1128	1128	1128	1128	1128	1143
PT9	24.7	24.7	24.7	24.7	24.7	24.7	24.7	25.5
PTC	35.4	36.0	36.6	36.6	36.8	37.1	37.6	40.2
TT9	1670	1670	1670	1670	1670	1670	1670	1688
TTC	3560	3CCC	2750	2500	2250	2CCO	1AC8	740
WAS/WAP	0.0460	C.0432	C.0419	C.0406	C.0393	C.0378	C.0343	0.0297
VENG	1675	1675	1675	1675	1675	1675	1675	1722
VDUCT	2617	2407	2307	2203	2093	1976	1687	1216
AJCDE	6.1C	6.10	6.1C	6.1C	6.3C	6.1C	6.1C	6.1C
AJCDD	8.93	7.9C	7.45	6.95	6.54	6.08	4.94	3.19

CCT 8, 1964

ALT	0	WASIZE	64C	PT2/PT2P	1.CCC	WBL3	C.
PC	0.20	PAP	14.7	PT2	15.1	WBL4	C.
VA KTS	137	TAP	519	TT2	523	WPERT	C.

TAKE OFF MAX C/P — MIN C/P NOT LIT

FNT	48617	45238	43631	42002	40286	38486	33705	27561
FGT	55145	49766	48180	46570	44814	42554	38233	32489
WAT	653	653	653	653	653	653	653	653
WFT	94072	75111	67437	60279	53751	47563	36148	21C98
TSFC	1.915	1.630	1.545	1.455	1.356	1.256	1.CIC	C.752
BPR	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.29
WAT2	637	637	637	637	637	637	637	637
N1	5898	5858	5898	5898	5858	5858	5898	5558
N2	7559	7559	7559	7559	7559	7559	7559	7613
PT3C	4C.5	4C.5	4C.5	4C.5	4C.5	4C.5	4C.5	42.5
PTA	177.7	177.7	177.7	177.7	177.7	177.7	177.7	184.7
TT3D	730	730	730	730	730	730	73C	744
TT4	1139	1139	1139	1139	1139	1139	1139	1148
PT9	25.1	25.1	25.1	25.1	25.1	25.1	25.1	26.0
PTC	36.1	36.P	37.1	37.4	37.6	37.9	38.4	41.0
TT9	1669	1669	1669	1669	1665	1669	1669	1667
TTC	3560	3CCC	2750	250C	225C	2CCO	1411	744
WAS/WAP	0.0458	C.0431	C.C41R	C.0405	C.C391	C.C377	C.0341	0.0296
VENG	1697	1697	1697	1697	1697	1697	1697	1745
VDUCT	2617	2407	2307	2203	2093	1976	1665	1219
AJCDE	6.1C	6.10	6.10	6.10	6.3C	6.1C	6.1C	6.1C
AJCDD	8.93	7.9C	7.45	6.99	6.54	6.08	4.95	3.20

CCT 8, 1964

ALT	0	WASIZE	64C	PT2/PT2P	1.CCC	WBL3	C.
PC	0.4C	PAP	14.7	PT2	16.4	WBL4	C.
VA KTS	265	TAP	519	TT2	525	WPERT	C.

TAKE OFF MAX C/P — MIN C/P NOT LIT

FNT	48518	44789	43041	41225	39335	37340	32204	25967
FGT	58109	54239	52631	50815	48926	46930	41704	35537
WAT	651	651	691	691	651	651	691	691
WFT	98955	79990	70759	63169	56250	49669	35676	21797
TSFC	2.C4C	1.761	1.644	1.532	1.430	1.330	1.10E	C.EAC
BPR	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.31
WAT2	629	629	629	629	629	629	629	629
N1	5866	5866	5866	5866	5866	5866	5866	5523
N2	8023	8023	8023	8023	8023	8023	8023	8044
PT3D	42.9	42.9	42.9	42.9	42.9	42.9	42.9	45.1
PT4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	194.3
TT3D	740	74C	740	740	74C	740	74C	756
TT4	1144	1144	1144	1144	1144	1144	1144	1160
PT9	26.2	26.2	26.2	26.2	26.2	26.2	26.2	27.2
PTC	38.2	38.9	39.2	39.5	39.8	4C.1	40.6	43.5
TT9	1667	1667	1667	1667	1667	1667	1667	1665
TTC	3560	3CCC	2750	25C0	225C	2CCO	142C	754
WAS/WAP	C.0453	C.0426	C.0413	C.0400	C.0387	C.0373	C.0338	0.0293
VENG	1760	1760	1760	1760	1760	1760	1760	1807
VDUCT	2617	2407	2308	2203	2093	1676	1674	1228
AJCDE	6.29	6.C9	6.09	6.C9	6.C5	6.09	6.C5	6.11
AJCDD	9.00	7.96	7.51	7.05	6.59	6.13	5.CC	3.23

CCT 8, 1964

ALT	45CCC	WASIZE	64C	PT2/PT2P	0.991	WBL3	C.
PC	1.20	PAP	2.1	PT2	5.2	WBL4	C.
VA KTS	688	TAP	39C	TT2	5C2	WPERT	C.

PARTHR — MAX C/H — MIN C/H NOT LIT

FNT	18040	16305	15502	14675	13820	12923	10505	7593
FGT	26440	24705	23902	23075	22221	21324	18906	15933
WAT	233	233	233	233	233	233	233	233
WFT	39878	27C51	24302	21742	19358	17173	12191	7479
TSFC	1.878	1.659	1.548	1.482	1.4C4	1.329	1.160	C.693
BPR	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.33
WAT2	651	651	651	651	651	651	651	651
N1	5938	5938	5938	5938	5938	5938	5938	5977
N2	7874	7874	7874	7874	7874	7874	7874	7898
PT3D	13.9	13.9	13.9	13.9	13.9	13.9	13.9	14.8
PT4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	64.7
TT3D	704	7C4	704	704	7C4	70A	7CA	716
TT4	1106	11C6	11C6	1106	11C6	11C6	1106	1120
PT9	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.1
PTC	12.3	12.5	12.7	12.8	12.9	13.0	13.2	14.1
TT9	1677	1677	1677	1677	1677	1677	1677	1676
TTC	356C	3CCO	2750	25C0	225C	2CC0	1398	716
WAS/WAP	0.0468	C.0440	C.0427	C.0413	C.0399	C.C385	0.0347	C.C3CC
VENG	1813	1813	1813	1813	1813	1813	1813	1813
VDUCT	2617	2407	2307	2203	2093	1976	1655	1197
AJCDE	6.1C	6.10	6.10	6.1C	6.1C	6.10	6.1C	6.11
AJCDD	9.45	8.35	7.86	7.38	6.89	6.40	5.15	3.3C

CCT 8, 1964

ALT	45CCC	WASIZE	64C	PT2/PT2P	0.971	WBL3	C.
PC	1.5C	PAP	2.1	PT2	7.7	WBL4	C.
VA KTS	860	TAP	390	TT2	508	WPERT	C.

PARTHR — MAX C/H — MIN C/H NOT LIT

FNT	22996	20504	19351	18165	16942	15658	12453	8308
FGT	36688	34195	33042	31856	30623	29349	26144	21999
WAT	303	303	303	303	3C3	3C3	303	303
WFT	44135	34962	31241	27765	24567	21584	15268	8876
TSFC	1.919	1.705	1.614	1.528	1.452	1.379	1.226	1.CC8
BPR	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.45
WAT2	608	608	608	608	6C8	6C8	608	608
N1	5724	5724	5724	5724	5724	5724	5724	5771
N2	8C16	PC16	8C16	8016	8C16	8C16	8C16	8C58
PT3D	17.9	17.9	17.9	17.9	17.9	17.9	17.9	18.7
PT4	77.0	77.0	77.0	77.0	77.0	77.0	77.0	80.2
TT3D	750	750	750	750	750	750	75C	762
TT4	1162	1162	1162	1162	1162	1162	1162	1178
PT9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	11.3
PTC	15.5	15.8	16.0	16.1	16.3	16.4	16.7	17.9
TT9	1676	1676	1676	1676	1676	1676	1676	1675
TTC	3560	3CC0	2750	2500	225C	2CC0	1429	762
WAS/WAP	0.0445	C.0418	C.C4C5	C.0392	C.C378	C.C364	C.0329	0.0283
VENG	1813	1813	1813	1813	1813	1813	1813	1812
VDUCT	2617	2407	2308	2203	2093	1676	1693	1236
AJCDE	6.09	6.C9	6.09	6.09	6.C9	6.C9	6.09	6.1C
AJCDD	10.18	8.98	8.45	7.92	7.39	6.86	5.7C	3.63

CCT 8, 1964

ALT	45000	WASIZE	64C	PT2/PT2P	0.945	WBL3	C.
PC	1.80	PAP	2.1	PT2	11.7	WBL4	C.
VA KTS	1032	TAP	39C	TT2	443	WPERT	C.

PARTHR — MAX C/H — MIN C/H NOT LIT

FNT	29414	25E07	24145	22441	20675	18833	14728	8884
FGT	50627	47220	45558	43854	42052	40246	36141	30297
WAT	395	395	395	395	395	355	395	395
WFT	57284	44821	39813	35119	30885	26C06	19065	10309
TSFC	1.948	1.737	1.649	1.565	1.494	1.423	1.294	1.10C
BPR	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.63
WAT2	555	555	555	555	555	555	555	555
N1	5504	5504	5504	5504	5504	5504	5504	5543
N2	8147	8147	8147	8147	8147	8147	8147	8178
PT3D	23.8	23.8	23.8	23.8	23.8	23.8	23.8	24.8
PT4	94.1	94.1	94.1	94.1	94.1	94.1	94.1	97.8
TT3D	814	814	814	814	814	814	814	824
TT4	1225	1225	1225	1225	1225	1225	1225	1240
PT9	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.7
PTC	20.5	2C.9	21.1	21.3	21.5	21.7	22.0	23.4
TT9	1674	1672	1676	1676	1676	1676	1676	1675
TTC	3560	3CC0	2750	2500	225C	2CC0	1447	824
WAS/WAP	0.0421	0.0394	C.0382	C.0369	C.C356	C.C342	0.0311	0.0267
VENG	1813	1813	1813	1813	1813	1813	1813	1812
VDUCT	2617	2408	2308	2203	2093	1976	1711	1283
AJCDE	6.10	6.10	6.10	6.10	6.1C	6.10	6.1C	6.11
AJCDD	10.44	9.20	8.66	8.11	7.57	7.C3	5.88	3.93

CCT 8, 1964

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ALT	45000	MACH#	.840	PT2/PT2P	0.973	WBL3	0.
RO	7.10	PAM	2.1	PT2	15.4	WBL4	0.
WA BTY	1154	TAM	390	TT2	702	WPERT	0.

PARTIAL MAX D/N — MIN D/N NOT LIT

FNT	24760	24833	23755	23815	23911	23104	16525	9358
FGT	42972	42941	42967	43023	41616	44316	44733	37567
WAT	469	469	469	469	469	469	469	469
WFT	66781	51925	45965	40955	35247	30420	22040	11459
TSFC	1.4943	1.741	1.635	1.572	1.507	1.441	1.334	1.227
SPR	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.69
WAT2	515	515	515	515	515	515	515	515
N1	9458	9458	9458	9458	9458	9458	9458	9456
N2	8184	8184	8184	8184	8184	8184	8184	8217
PT30	29.7	29.7	29.7	29.7	29.7	29.7	29.7	30.1
PT4	110.1	110.1	110.1	110.1	110.1	110.1	110.1	111.9
TT30	870	870	870	870	870	870	870	878
TT4	1278	1278	1278	1278	1278	1278	1278	1295
PT9	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.8
PTC	27.9	27.9	26.8	26.8	27.1	27.2	27.6	29.2
T49	1635	1635	1635	1635	1635	1635	1635	1674
T2C	338C	3CEC	275C	230C	225C	2CEC	1537	878
WAS/WAP	0.0404	0.0378	0.0366	0.0354	0.0341	0.0327	0.0303	0.0259
WANG	1813	1813	1813	1813	1813	1813	1813	1812
VDUCT	2417	2408	2308	2203	2093	1976	1739	1324
AJCDE	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10
AJCDD	9.88	8.73	8.22	7.71	7.21	6.70	5.72	3.92

OCT 8, 1964

ALT	45000	MACH#	.840	PT2/PT2P	0.973	WBL3	0.
RO	2.10	PAM	6.8	PT2	14.8	WBL4	0.
WA BTY	1154	TAM	390	TT2	702	WPERT	0.

PARTIAL MAX D/N — MIN D/N NOT LIT

FNT	24760	24833	23755	23815	23911	23104	16525	9358
FGT	43651	42307	40687	39038	37340	35376	33719	25487
WAT	469	469	469	469	469	469	469	469
WFT	40938	38383	34507	32628	29199	25981	23758	14438
TSFC	1.779	1.770	1.695	1.652	1.590	1.531	1.520	1.420
SPR	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84
WAT2	568	563	568	562	562	436	382	256
N1	9458	9458	9458	9458	9458	9458	9458	9456
N2	8065	8065	8065	8065	8065	8065	8065	8054
PT30	29.0	29.0	29.0	29.0	29.0	29.0	29.0	30.0
PT4	68.9	68.9	68.9	68.9	68.9	68.9	68.9	73.3
TT30	1464	1464	1464	1464	1464	1464	1464	1464
TT4	1477	1477	1477	1477	1477	1477	1477	1451
PT9	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.7
PTC	20.0	20.0	20.1	20.0	20.0	20.0	20.0	20.4
T49	1606	1606	1606	1606	1606	1606	1606	1605
T2C	3568	3568	3568	3568	3568	3568	3568	3568
WAS/WAP	0.0369	0.0324	0.0314	0.0303	0.0292	0.0279	0.0267	0.0236
WANG	1796	1796	1796	1796	1796	1796	1796	1796
VDUCT	2418	2408	2308	2204	2094	1977	1852	1465
AJCDE	6.49	6.48	6.48	6.48	6.48	6.48	6.50	6.48
AJCDD	7.06	6.82	6.48	6.08	5.79	5.83	6.92	5.65

OCT 8, 1964

ALT	45000	MACH#	.840	PT2/PT2P	0.973	WBL3	0.
RO	2.70	PAM	6.8	PT2	14.8	WBL4	0.
WA BTY	1154	TAM	390	TT2	702	WPERT	0.

PARTIAL MAX D/N — MIN D/N NOT LIT

FNT	24760	24833	23755	23815	23911	23104	16525	9358
FGT	44671	44867	43147	41377	39554	37658	35578	30138
WAT	469	469	469	469	469	469	469	469
WFT	43648	36058	28819	24327	20552	16892	13805	5469
TSFC	1.993	1.990	1.908	1.868	1.810	1.751	1.695	1.600
SPR	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97
WAT2	484	480	484	484	484	484	484	484
N1	9458	9458	9458	9458	9458	9458	9458	9458
N2	8062	8062	8062	8062	8062	8062	8062	8052
PT30	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.8
PT4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	72.8
TT30	1498	1498	1498	1498	1498	1498	1498	1499
TT4	1481	1481	1481	1481	1481	1481	1481	1459
PT9	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.8
PTC	22.0	22.0	21.9	21.9	22.0	22.0	22.0	22.0
T49	1604	1604	1604	1604	1604	1604	1604	1603
T2C	3618	3618	3618	3618	3618	3618	3618	3618
WAS/WAP	0.0348	0.0325	0.0313	0.0300	0.0287	0.0273	0.0260	0.0231
WANG	1796	1796	1796	1796	1796	1796	1796	1796
VDUCT	2418	2408	2308	2204	2093	1977	1847	1478
AJCDE	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48
AJCDD	8.08	7.80	7.38	6.93	6.69	6.64	9.85	6.69

OCT 9, 1964

ALT	45000	MACH#	.840	PT2/PT2P	0.973	WBL3	0.
RO	2.70	PAM	6.8	PT2	14.8	WBL4	0.
WA BTY	1154	TAM	390	TT2	702	WPERT	0.

PARTIAL MAX D/N — MIN D/N NOT LIT

FNT	24760	24833	23755	23815	23911	23104	16525	9358
FGT	42174	18976	37516	36032	34505	32915	31369	26868
WAT	469	469	469	469	469	469	469	469
WFT	38544	27462	23825	20543	17479	14956	12921	8421
TSFC	1.951	1.791	1.669	1.608	1.548	1.487	1.427	1.309
SPR	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.64
WAT2	384	384	384	384	384	384	384	384
N1	9458	9458	9458	9458	9458	9458	9458	9458
N2	8067	8067	8067	8067	8067	8067	8067	8052
PT30	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.8
PT4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	72.8
TT30	1468	1468	1468	1468	1468	1468	1468	1490
TT4	1475	1475	1475	1475	1475	1475	1473	1450
PT9	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.7
PTC	21.9	21.9	21.9	21.9	21.9	21.9	21.9	22.0
T49	1607	1607	1607	1607	1607	1607	1607	1605
T2C	3568	3568	3568	3568	3568	3568	3568	3568
WAS/WAP	0.0344	0.0322	0.0312	0.0301	0.0290	0.0279	0.0267	0.0234
WANG	1793	1793	1793	1793	1793	1793	1793	1793
VDUCT	2418	2408	2308	2204	2094	1977	1861	1498
AJCDE	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48
AJCDD	8.36	8.69	8.30	8.80	6.79	6.48	6.14	8.81

OCT 8, 1964

ALT	15000	MACH#	.660	PT2/PT2P	0.986	WBL3	0.
RO	6.80	PAM	9.99	PT2	9.79	WBL4	0.
WA BTY	919	TAM	665	TT2	489	WPERT	0.

PARTIAL MAX D/N

FNT	17801	16116	14839	13424	11655	9487	7648	4876
FGT	24691	23503	22226	20812	18780	16424	13819	11090
WAT	490	490	490	490	434	402	375	348
WFT	146881.	135375.	123184.	112996.	96194.	80117.	67687.	37827.
TSFC	0.699	0.842	0.858	0.826	0.830	0.852	0.885	0.939
SPR	1.33	1.33	1.38	1.44	1.56	1.62	1.67	1.69
WAT2	661	661	661	661	637	592	552	512
N1	6029	5969	5911	5860	5552	5075	4764	4487
N2	7952	7792	7677	7563	7431	7260	7102	6916
P308	39.29	37.52	35.16	32.76	31.43	29.26	28.08	27.48
P34	127.99	122.49	117.32	111.91	102.89	88.96	79.27	71.80
T308	714	694	674	654	640	625	610	596
T34	1389	1998	1871	1892	1823	1980	1967	916
P19	17.98	17.14	16.32	15.49	14.76	12.67	11.73	11.06
P10	28.33	26.28	24.82	21.48	20.16	19.06	17.76	16.37
T19	1069	1044	1019	1445	1376	1313	1254	1197
T10	714	694	674	654	640	625	611	596
WAS/WAP	0.0809	0.0797	0.0248	0.0243	0.0276	0.0249	0.0264	0.0297
CDFGT	0.4629	0.7219	0.0082	0.9129	1.0544	1.3082	1.5949	2.0006
WANG	1809	1769	1728	1687	1543	1345	1173	1064
VDUCT	1193	1178	1161	1144	1132	1118	1106	1062
AJCDE	6.10	6.10	6.11	6.10	6.09	6.10	6.10	6.10
AJCDD	5.11	5.36	5.48	6.13	6.27	6.27	6.27	6.27

ALT	15000	MACH#	.660	PT2/PT2P	0.986	WBL3	0.
RO	8.80	PAM	8.30	PT2	9.70	WBL4	0.
WA BTY	919	TAM	665	TT2	489	WPERT	0.

PARTIAL MAX D/N

FNT	17801	16116	14839	13424	11655	9487	7648	4876
FGT	24691	23503	22226	20812	18780	16424	13819	11090
WAT	490	490	490	490	434	402	375	348
WFT	14744.	13532.	12318.	11299.	9619.	8017.	6767.	3782.
TSFC	1.014	1.044	1.058	1.026	1.030	1.052	1.085	1.139
SPR	1.73	1.73	1.78	1.84	1.96	2.02	2.07	2.09
WAT2	676	676	676	661	637	592	552	512
N1	6230	6097	5972	5860	5552	5075	4764	4487
N2	8078	8008	7877	7563	7431	7260	7102	6916
P308	40.483	39.36	37.00	32.76	31.43	29.26	28.08	27.48
P34	132.92	129.33	123.93	111.91	102.89	88.96	79.27	71.80
T308	894	873	852	654	640	625	610	596
T34	882	867	852	1892	1823	1980	1967	916
P19	18.48	18.24	17.98	15.49	14.76	12.67	11.73	11.06
P10	28.89	28.44	27.98	21.48	20.16	19.06	17.76	16.37
T19	1143	1116	1089	1445	1376	1313	1254	1197
T10	881	873	852	654	640	625	611	596
WAS/WAP	0.0854	0.0291	0.0291	0.0243	0.0276	0.0249	0.0264	0.0297
CDFGT	2.6800	2.9983	3.3166	0.9129	1.0544	1.3082	1.5949	2.0006
WANG	899	886	873	1687	1543	1345	1173	1064
VDUCT	1040	1006	1006	1144	1132	1118	1106	1062
AJCDE	6.30	6.09	6.09	6.10	6.09	6.10	6.10	6.10
AJCDD	6.27	6.27	6.27	6.13	6.27	6.27	6.27	6.27

ALT	36150	MASIZE	640	PT2/PT2P	0.986	WBL3	0.	
RB	0.00	PAM	3.28	PT2	4.94	WBL4	0.	
VA KTS	459	TAM	390	TT2	440	WPERT	0.	
PART PWR								
FNT	8941	8381	7734	7068	6313	5476	4462	3532
FGT	15007	14397	13750	13026	12191	11110	9769	8494
WAT	250	250	250	250	244	234	220	206
WFT	8080.	7610.	6754.	6166.	5467.	4749.	3953.	3276.
TSFC	0.999	0.884	0.873	0.871	0.868	0.868	0.886	0.927
SPM	1.31	1.39	1.39	1.44	1.50	1.58	1.62	1.71
WAT2	686	686	686	686	678	642	605	565
N1	6886	6831	5986	5948	5691	5344	4961	4618
N2	7760	7569	7495	7718	7195	7063	6898	6728
PT2R	15.58	14.92	15.39	12.86	11.49	11.01	10.56	9.99
P54	66.89	64.32	63.75	61.01	57.77	53.11	46.59	40.64
TT2R	654	630	618	606	590	580	568	557
T54	1043	1023	1003	984	959	931	895	860
P59	9.72	9.31	8.89	8.45	7.97	7.27	6.35	5.59
P30	15.85	15.96	12.77	11.37	10.77	10.36	9.96	9.48
T59	1629	1549	1474	1400	1327	1254	1183	1116
T30	654	636	618	606	590	580	568	557
WAS/WAP	0.0313	0.0305	0.0298	0.0290	0.0284	0.0278	0.0270	0.0263
CBTGT	0.5584	0.6027	0.6603	0.7436	0.8199	0.9368	1.1254	1.4092
VBM0	1786	1765	1783	1661	1618	1575	1531	1579
VBMGT	1144	1128	1113	1096	1087	1077	1067	1056
AJCBE	6.10	6.10	6.10	6.10	6.10	6.11	6.11	6.10
AJCB0	3.16	3.36	3.78	4.15	4.27	4.27	4.27	4.27

ALT	36150	MASIZE	640	PT2/PT2P	0.986	WBL3	0.	
RB	0.00	PAM	3.28	PT2	4.94	WBL4	0.	
VA KTS	459	TAM	390	TT2	440	WPERT	0.	
PART PWR								
FNT	2765	2138	1547	986	498			
FGT	7639	6688	5996	4781	3009			
WAT	193	181	168	154	141			
WFT	2738.	2208.	1886.	1543.	1255.			
TSFC	0.905	1.067	1.219	1.563	2.521			
SPM	1.75	1.77	1.80	1.85	1.90			
WAT2	530	496	461	423	386			
N1	4390	4175	3946	3686	3343			
N2	6835	6591	6139	5870	5626			
PT2R	9.36	8.69	8.02	7.34	6.66			
P54	36.60	32.95	29.37	25.56	21.99			
TT2R	846	534	521	507	494			
T54	832	805	776	744	711			
P59	5.10	4.74	4.44	4.16	3.94			
P30	8.68	8.17	7.55	6.90	6.77			
T59	1051	989	931	878	847			
T30	545	534	521	508	493			
WAS/WAP	0.0257	0.0252	0.0246	0.0241	0.0235			
CBTGT	1.7753	2.2927	3.1426	4.9077	9.6998			
VBM0	1226	1090	963	831	711			
VBMGT	1045	1034	1021	1008	996			
AJCBE	6.11	6.10	6.09	6.10	6.10			
AJCB0	4.27	4.27	4.27	4.27	4.27			

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DOWNGRADED AT 3 YEAR INTERVALS - DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

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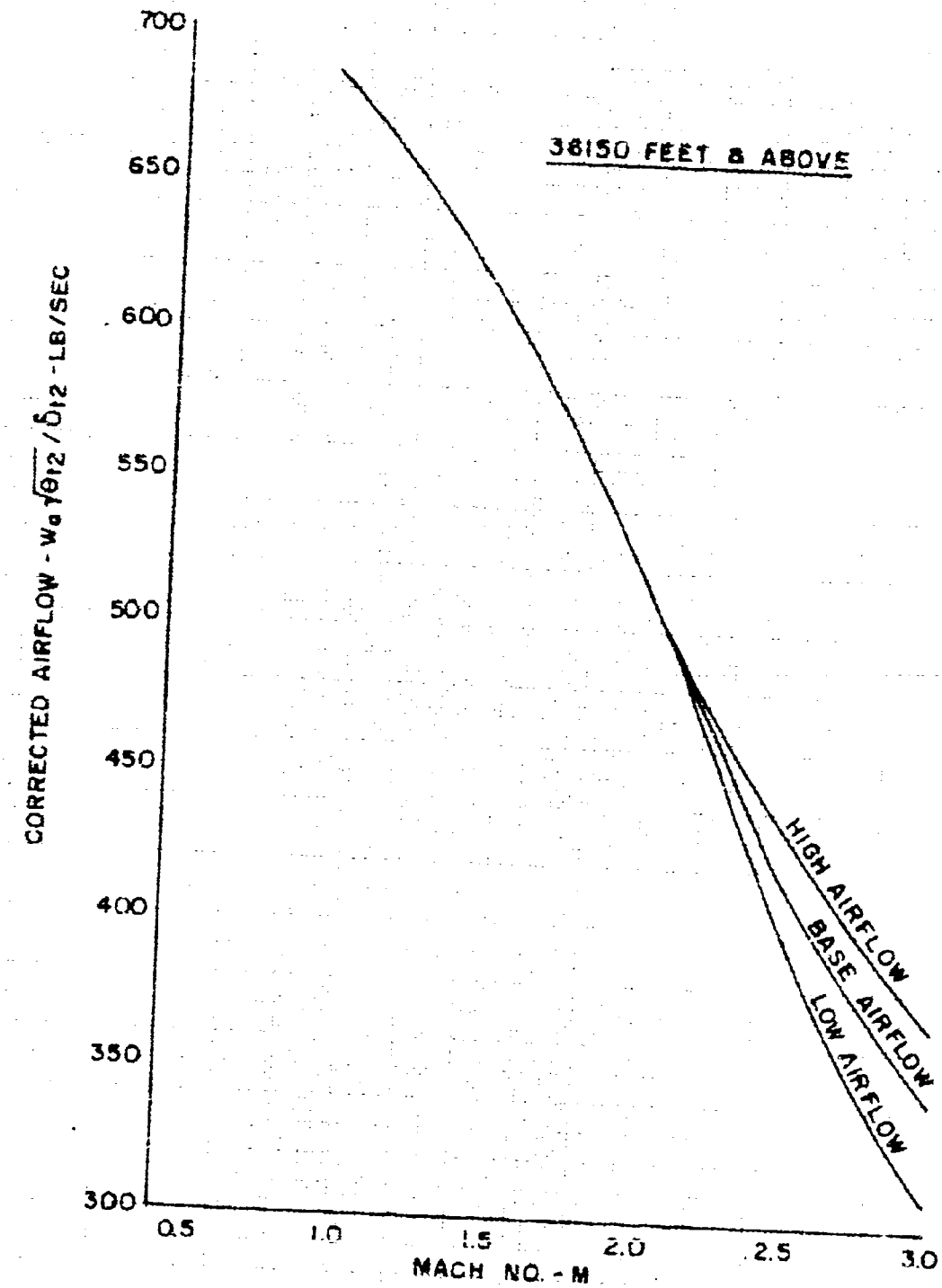
Pratt & Whitney Aircraft — U A

ENGINE MODEL STF 219B
ESTIMATED CORRECTED AIRFLOW

U.S. STANDARD ATMOSPHERE - 1962 (GEOM.)



DATE 10-15-64

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CURVE NO. T-1688
SHEET 1

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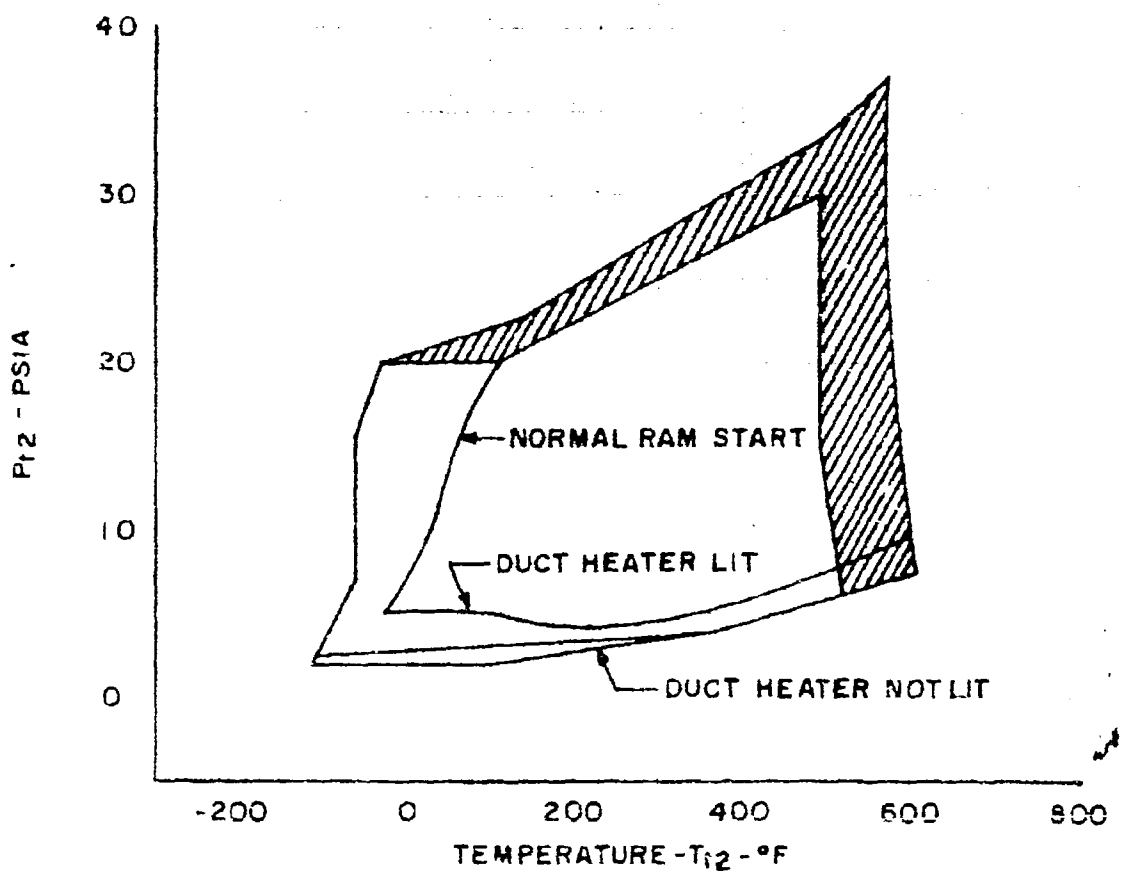
CONFIDENTIAL

Pratt & Whitney Aircraft — Division of United Aircraft Corporation

ENGINE MODEL STF 219B
ESTIMATED OPERATING ENVELOPE
INCLUDING MAXIMUM TRANSIENT MACH NUMBERS

MACH 2.7 VERSION

RAM RECOVERY PER MIL-E-5008B



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CURVE NO. T-1688
SHEET 2

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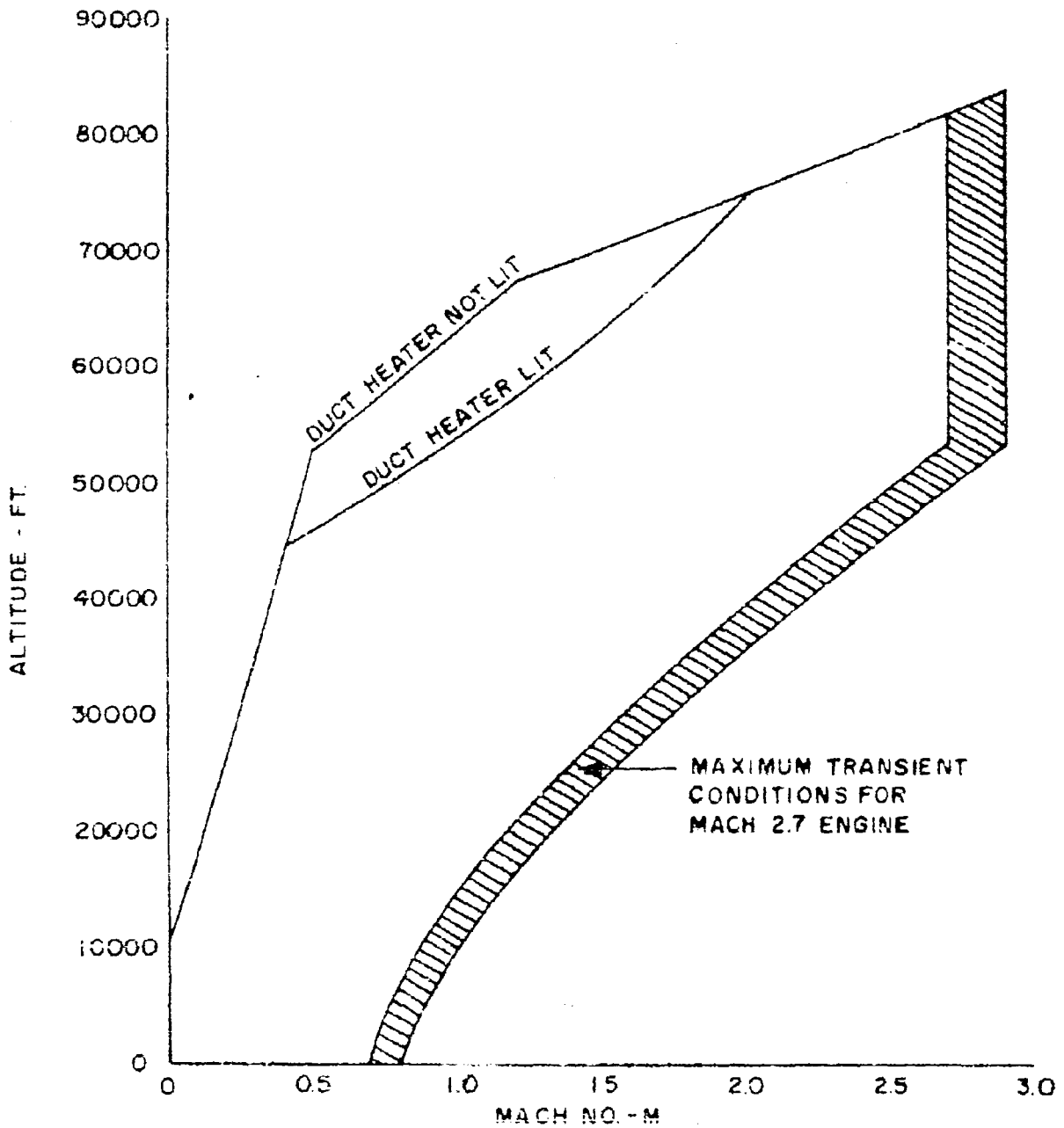
Pratt & Whitney Aircraft

ENGINE MODEL ST 9B
ESTIMATED OPERATING ENVELOPE
INCLUDING MAXIMUM TRANSIENT MACH NUMBERS

U. S. STANDARD ATMOSPHERE - 1962 (GEOM) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CURVE NO T-1688
SHEET 3

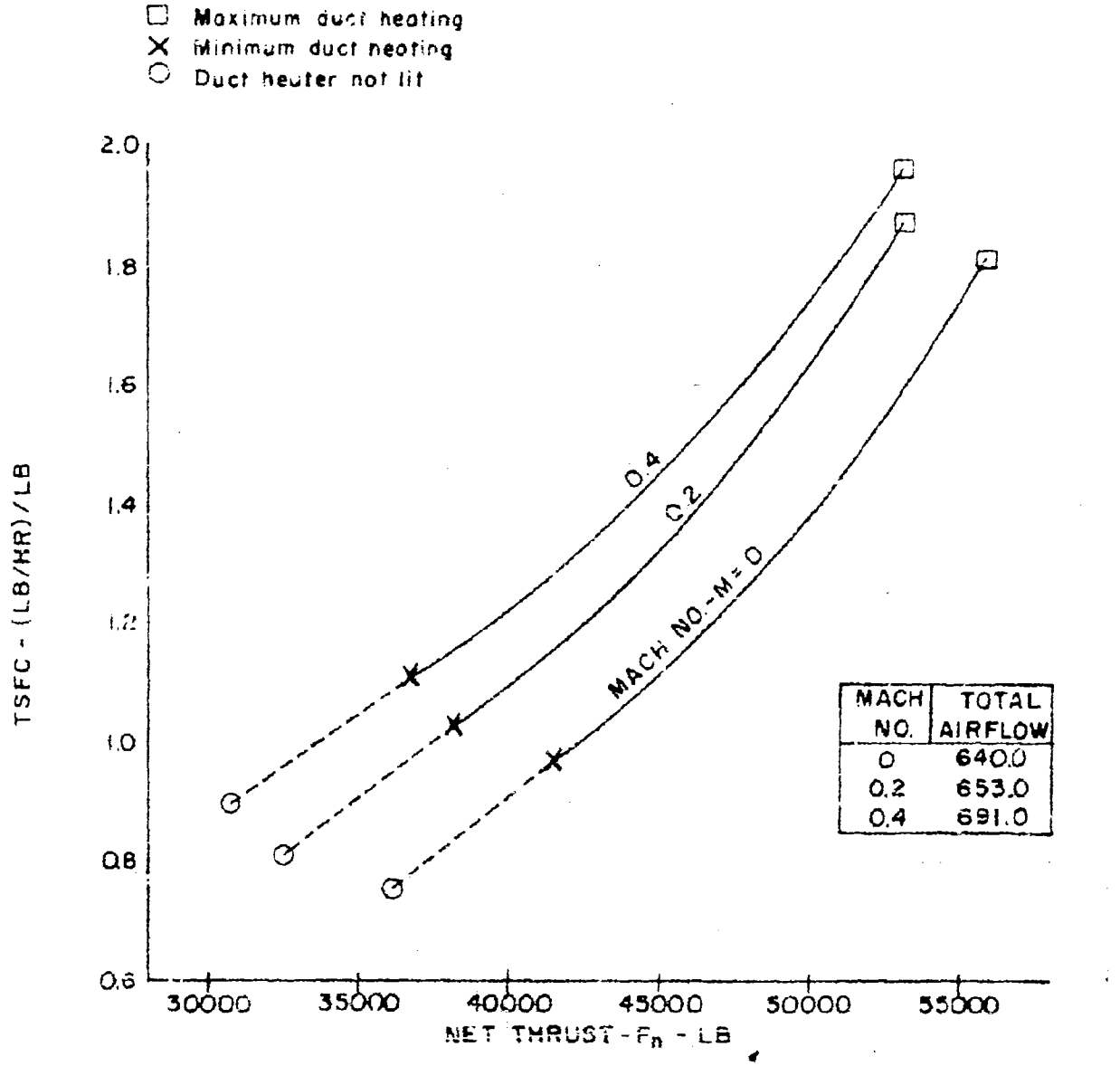
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft

ENGINE MODEL STF 219B
ESTIMATED PERFORMANCE WITH PARTIAL DUCT HEATING

SEA LEVEL
U.S. STANDARD ATMOSPHERE -1962 (GEOM.)

TAKE-OFF RATING
RAM RECOVERY PER MIL-E-5006 B



DATE 10-15-64

CURVE NO T-1688
SHEET 4

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

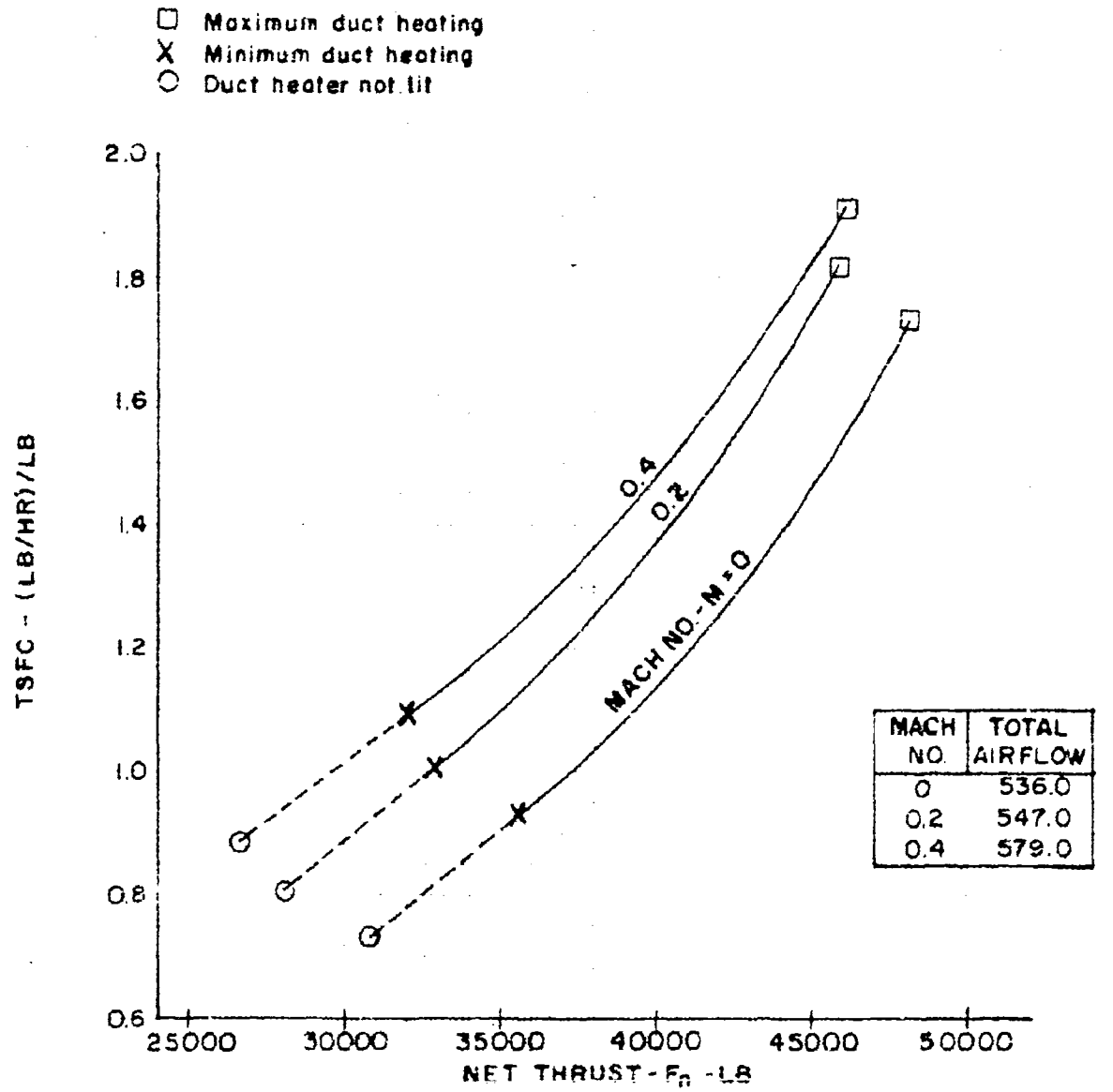
CONFIDENTIAL

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 2198
ESTIMATED PERFORMANCE WITH PARTIAL DUCT HEATING

6000 FEET
U. S. STANDARD ATMOSPHERE - 1962 (GEOM.)

TAKE-OFF RATING
RAM RECOVERY PER MIL-E-5008 B



MACH NO.	TOTAL AIRFLOW
0	536.0
0.2	547.0
0.4	579.0

DATE 10-15-64

CONFIDENTIAL

CURVE NO. T-1688
SHEET 5

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

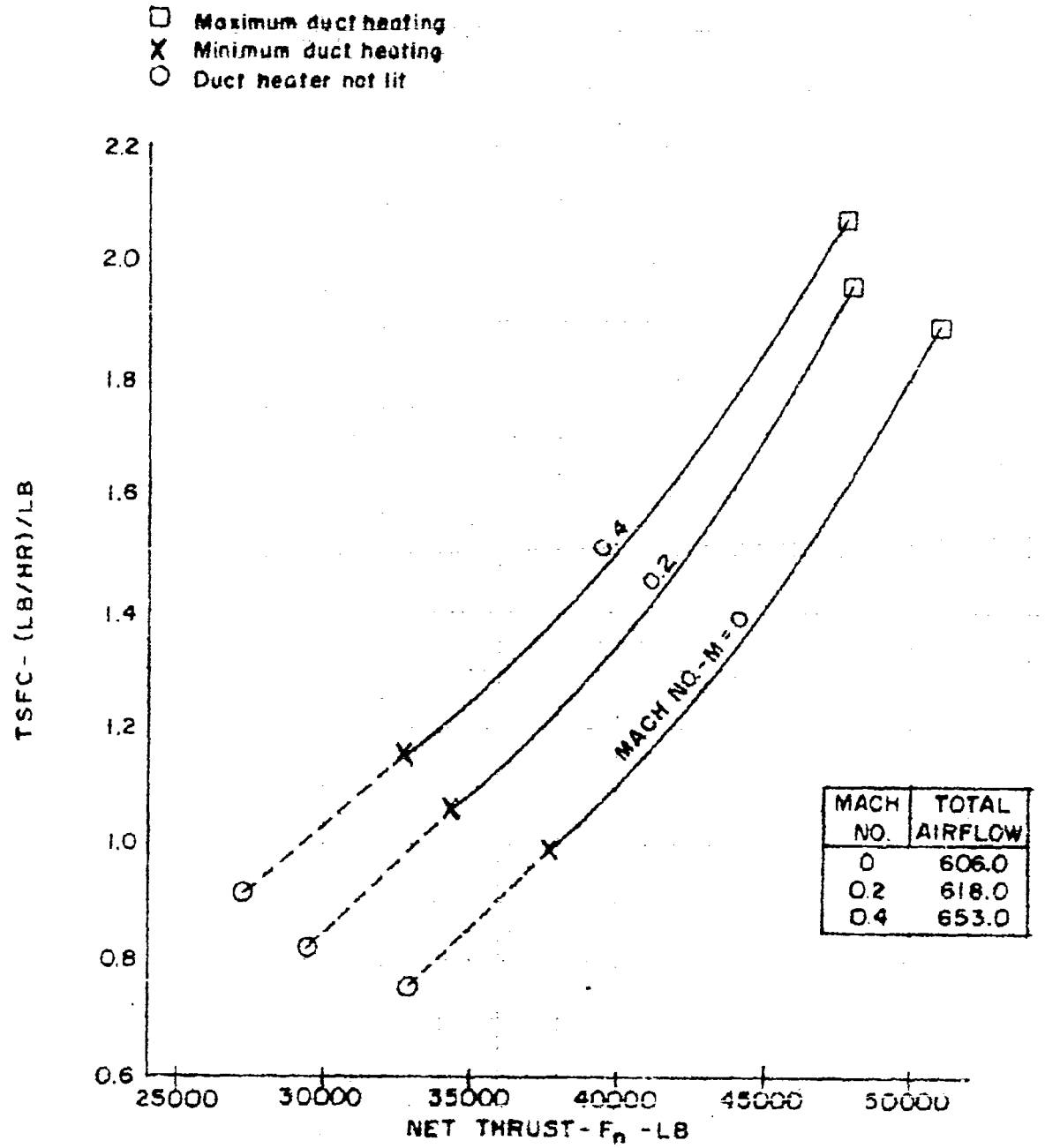
CONFIDENTIAL

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED PERFORMANCE WITH PARTIAL DUCT HEATING

SEA LEVEL
STANDARD DAY +27°

TAKE-OFF RATING
RAM RECOVERY PER MIL-E-5008 B



MACH NO.	TOTAL AIRFLOW
0	606.0
0.2	618.0
0.4	653.0

DATE 10-15-64

CONFIDENTIAL

CURVE NO T-1688
SHEET 6

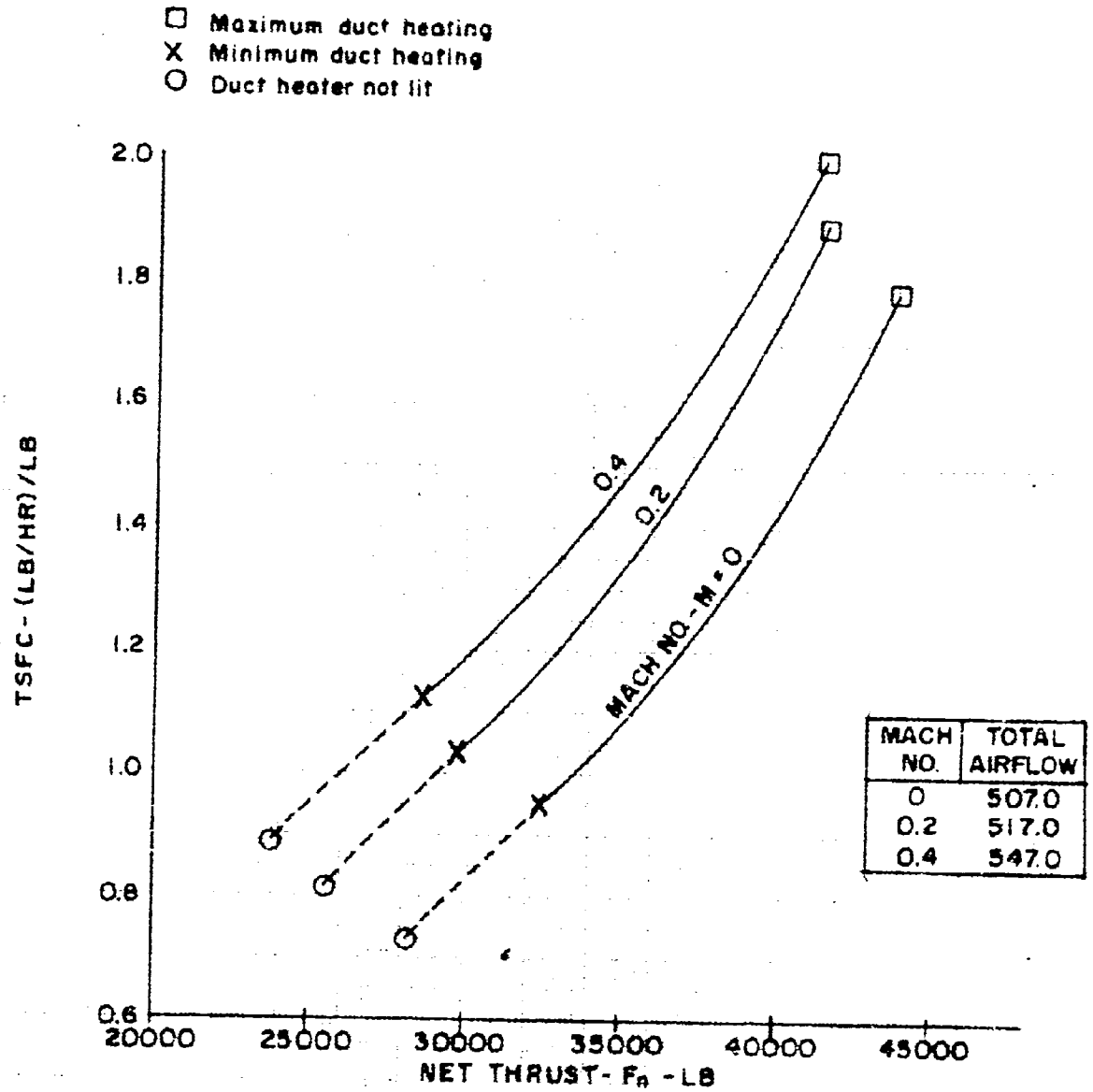
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED PERFORMANCE WITH PARTIAL DUCT HEATING

6000 FEET
STANDARD DAY +27°

TAKE-OFF RATING
RAM RECOVERY PER MIL-E-5008 B



MACH NO.	TOTAL AIRFLOW
0	507.0
0.2	517.0
0.4	547.0

DATE 10-15-64

CURVE NO T-1688
SHEET 7

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

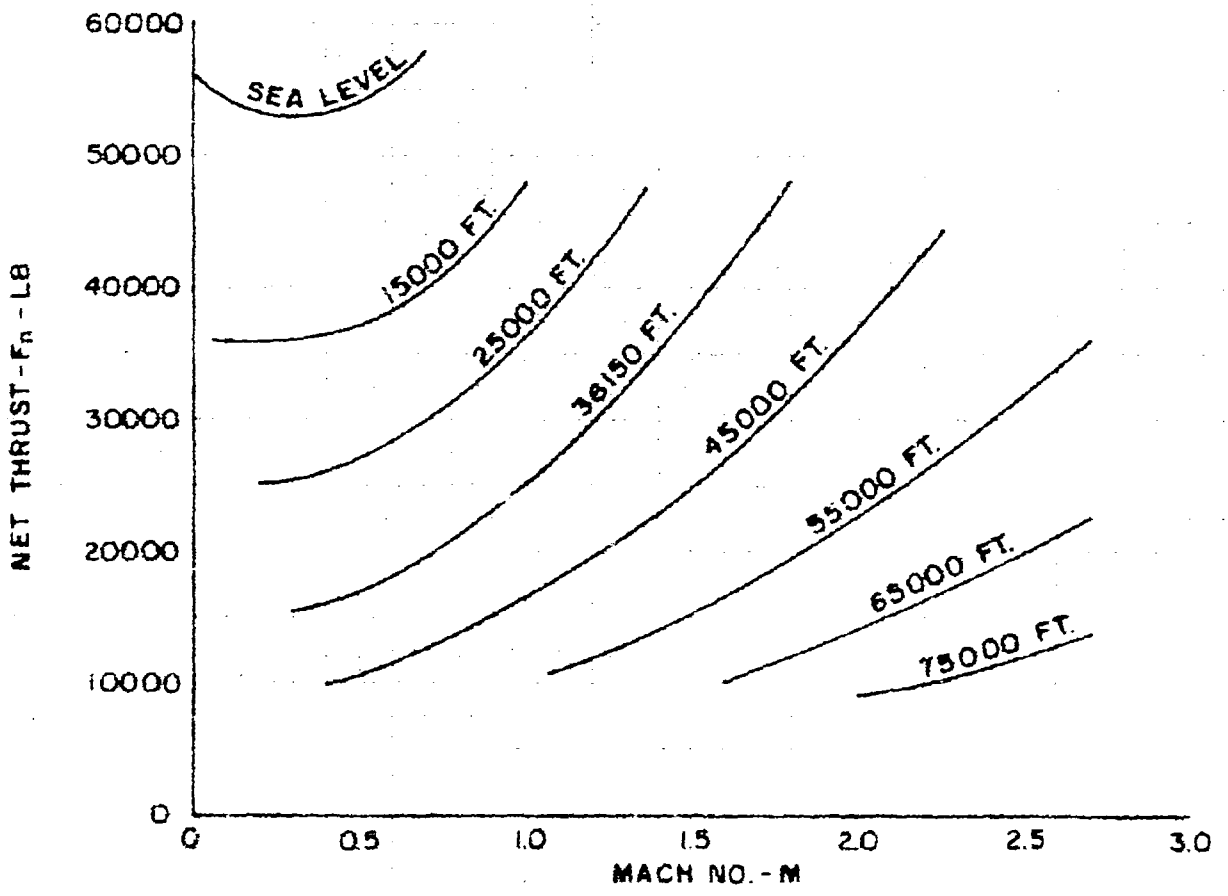
Pratt & Whitney Aircraft

ENGINE MODEL STF 2198

ESTIMATED THRUST AT MAXIMUM DUCT HEATING

BASE AIRFLOW SCHEDULE — MAXIMUM THRUST

U.S. STANDARD ATMOSPHERE-1962(GEOM.) — RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

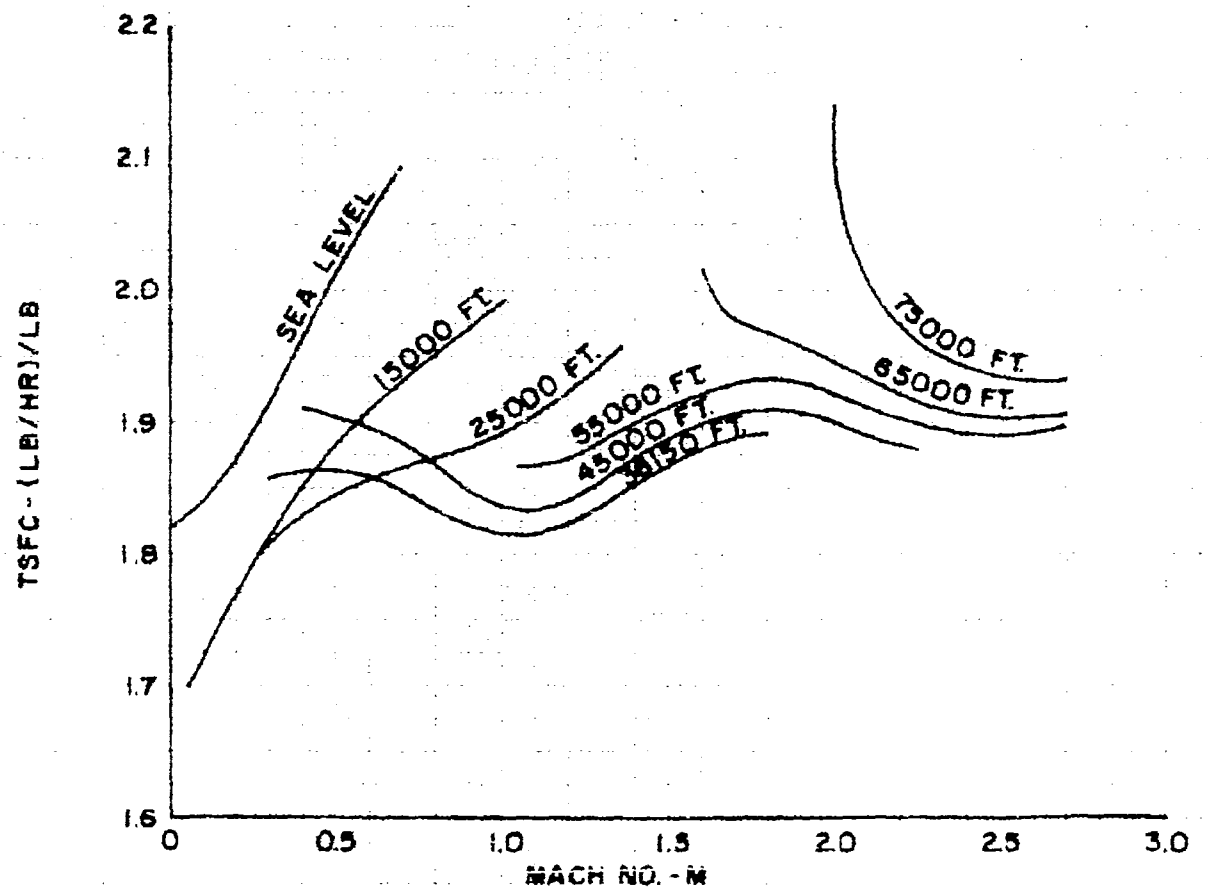
CURVE NO. T-1688
SHEET 8

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED TSFC AT MAXIMUM DUCT HEATING

BASE AIRFLOW SCHEDULE — MAXIMUM THRUST
U.S. STANDARD ATMOSPHERE-1962 (GEOM.) — RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CURVE NO. T-1688
SHEET 9

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

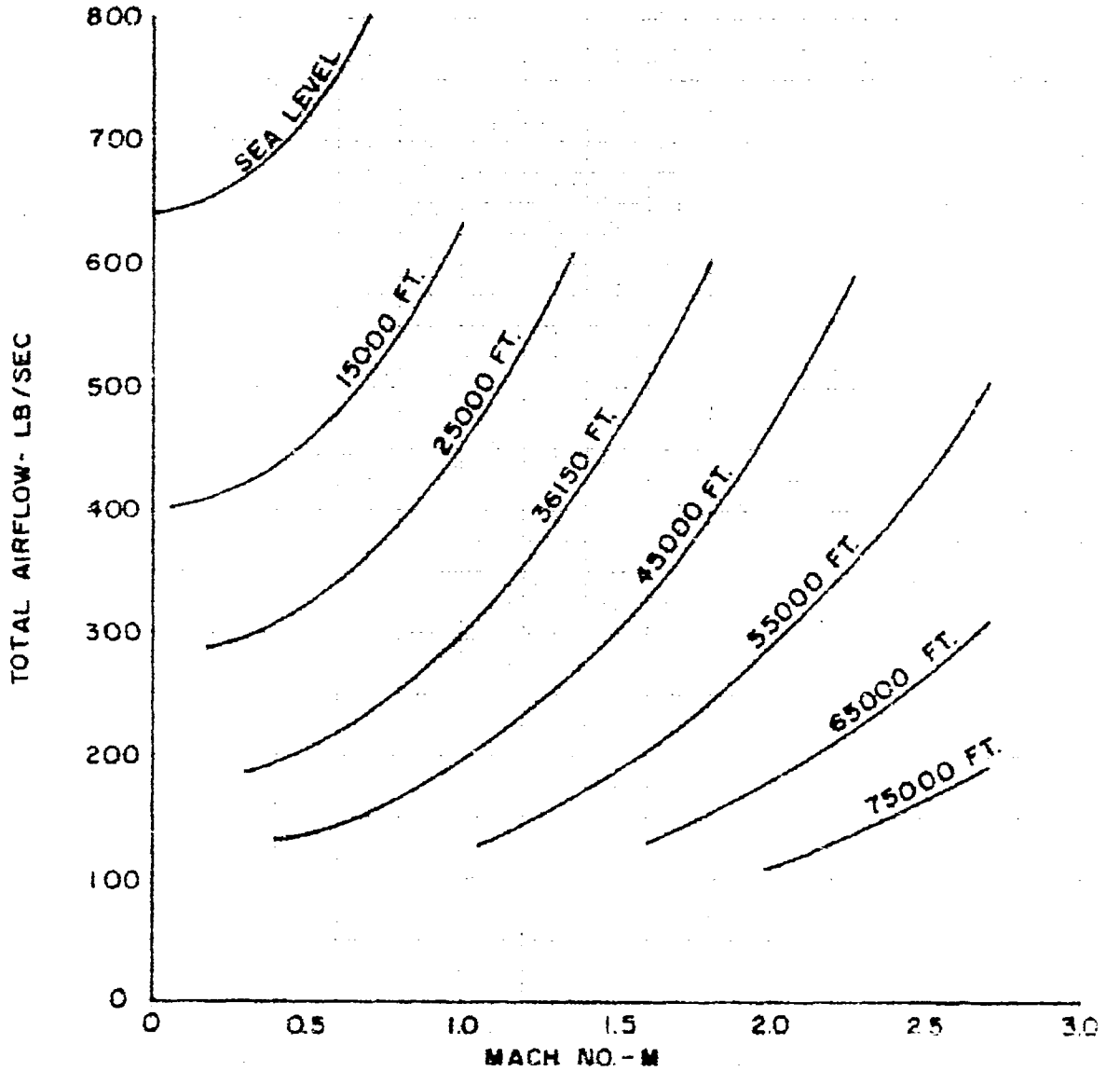
CONFIDENTIAL

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED TOTAL AIRFLOW

BASE AIRFLOW SCHEDULE
U. S. STANDARD ATMOSPHERE-1962(GEOM.)

MAXIMUM THRUST
RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

CURVE NO. T-1688
SHEET 10

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

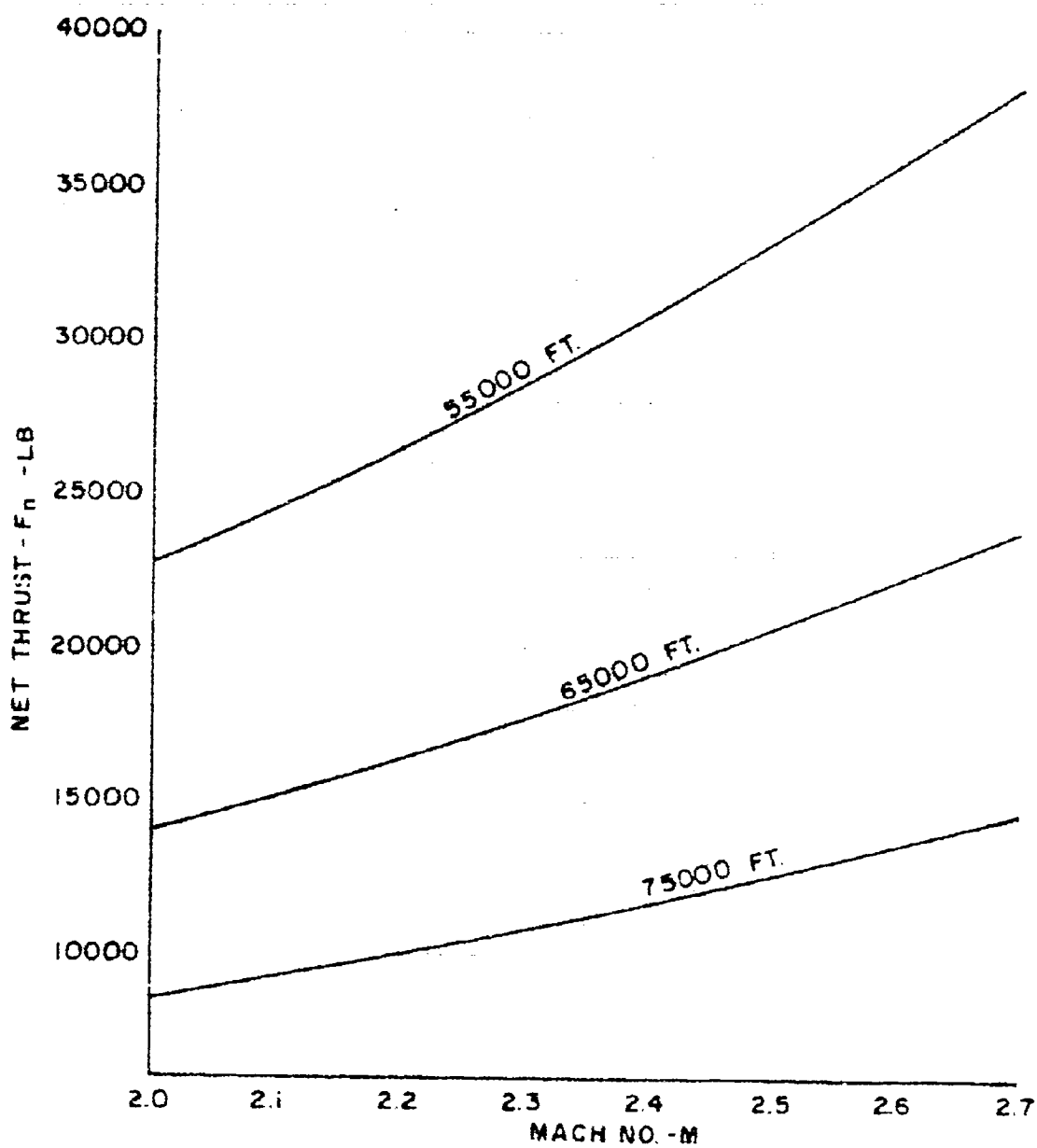
Pratt & Whitney Aircraft

ENGINE MODEL STF 2198

ESTIMATED THRUST AT MAXIMUM DUCT HEATING

HIGH AIRFLOW SCHEDULE — MAXIMUM THRUST

U. S. STANDARD ATMOSPHERE - 1962 (GEOM.) — RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

CURVE NO. T-1688
SHEET 11

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

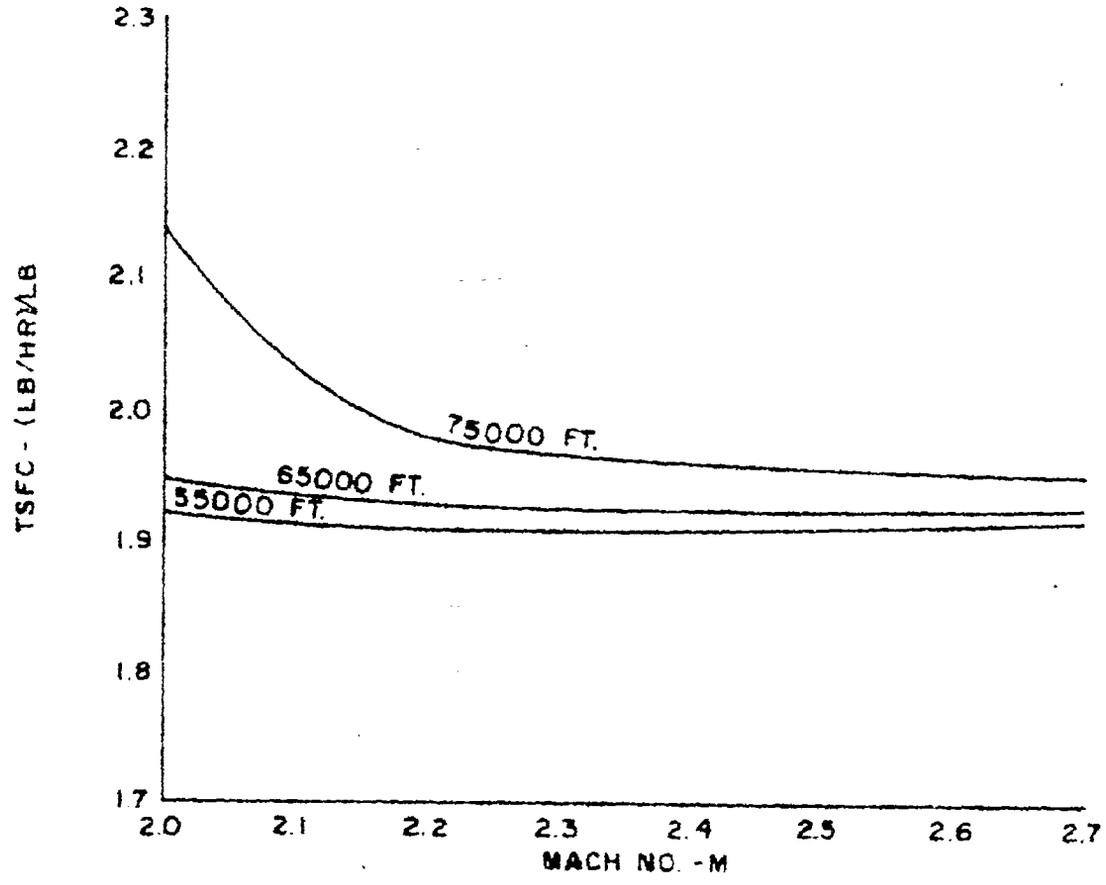
Pratt & Whitney Aircraft

UA

ENGINE MODEL STF 219B
ESTIMATED TSFC AT MAXIMUM DUCT HEATING

HIGH AIRFLOW SCHEDULE
U. S. STANDARD ATMOSPHERE-1962 (GEOM.)

MAXIMUM THRUST
RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

CURVE NO. T-1688
SHEET 12

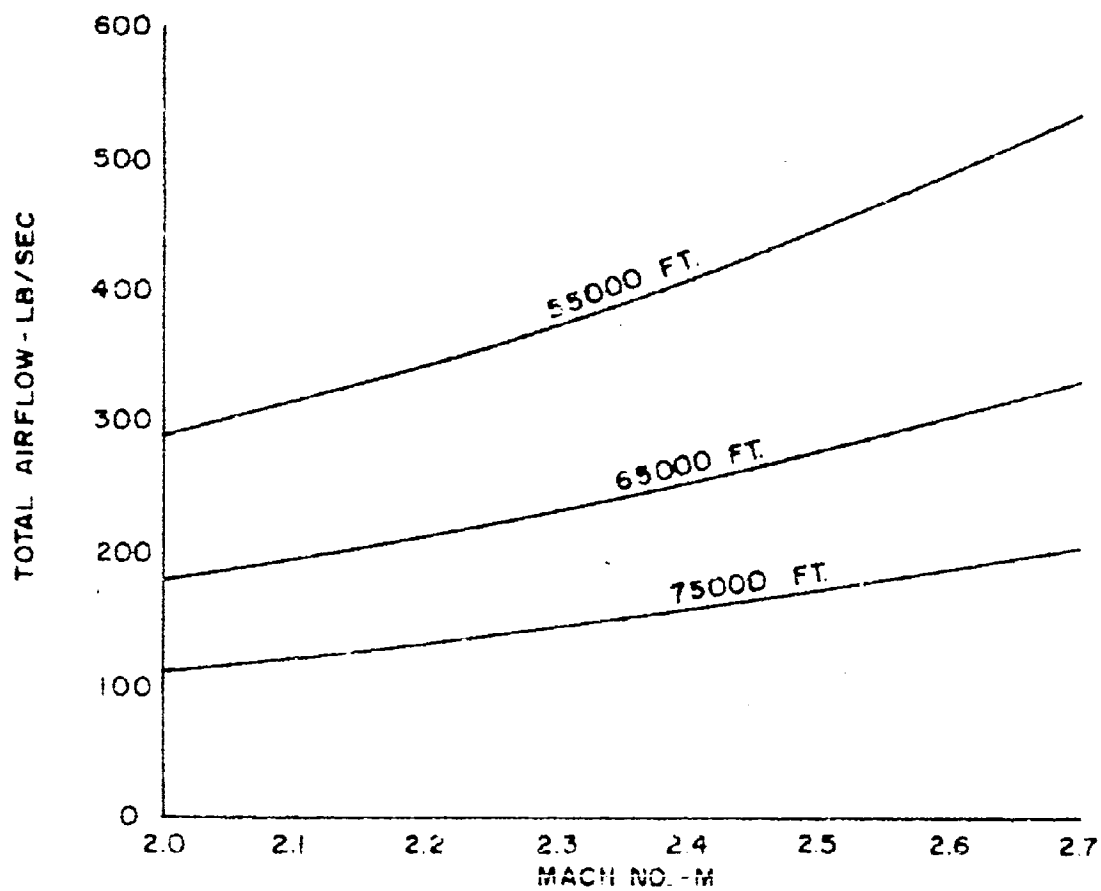
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft

ENGINE MODEL STF 219B
ESTIMATED TOTAL AIRFLOW

HIGH AIRFLOW SCHEDULE
U.S. STANDARD ATMOSPHERE-1962 (GEOM.)

MAXIMUM THRUST
RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CURVE NO T-1688
SHEET 13

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

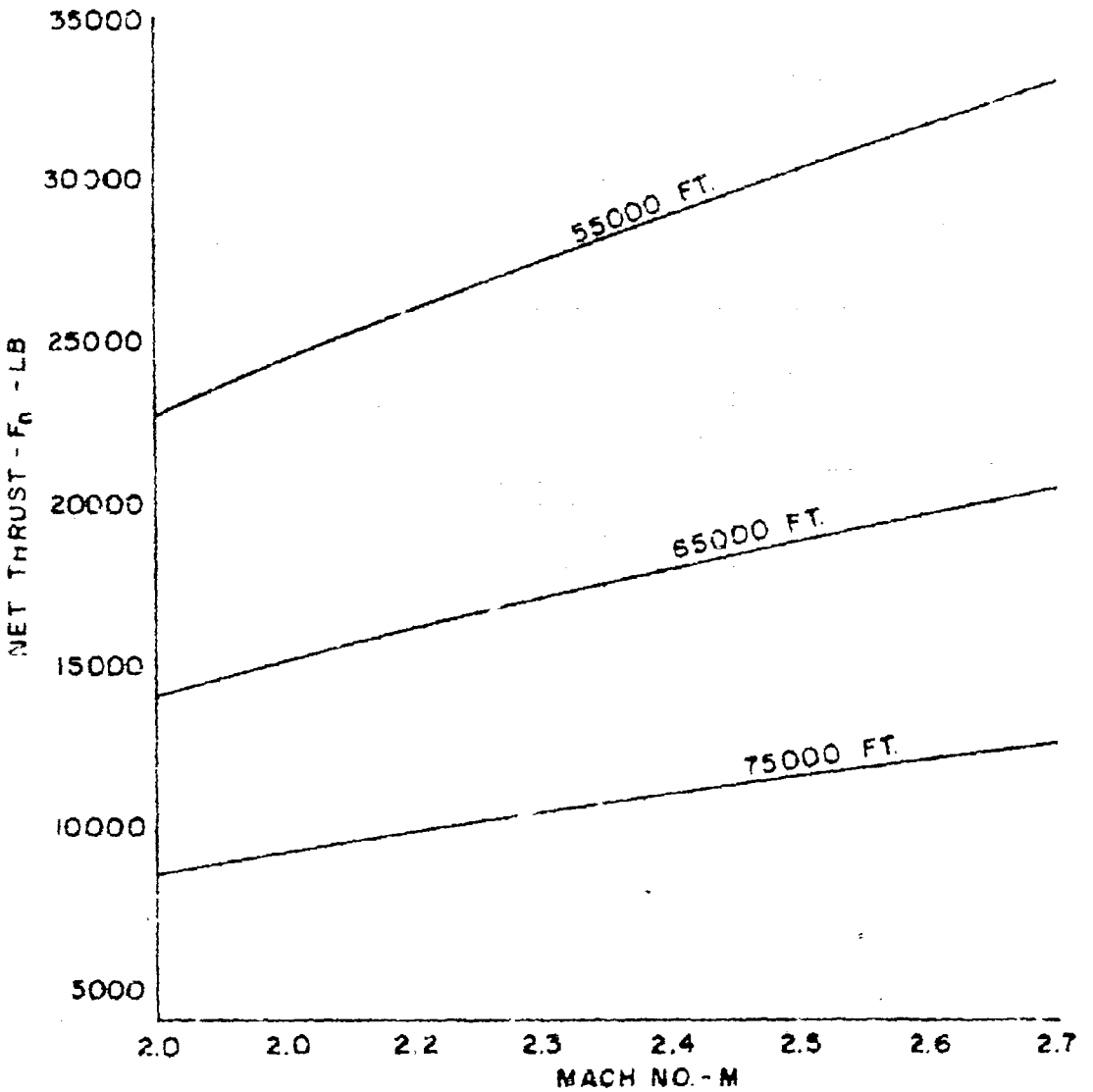
Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B

ESTIMATED THRUST AT MAXIMUM DUCT HEATING

LOW AIRFLOW SCHEDULE
U. S. STANDARD ATMOSPHERE -1962(GEOM.)

MAXIMUM THRUST
RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

CURVE NO T-1688
SHEET 14

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

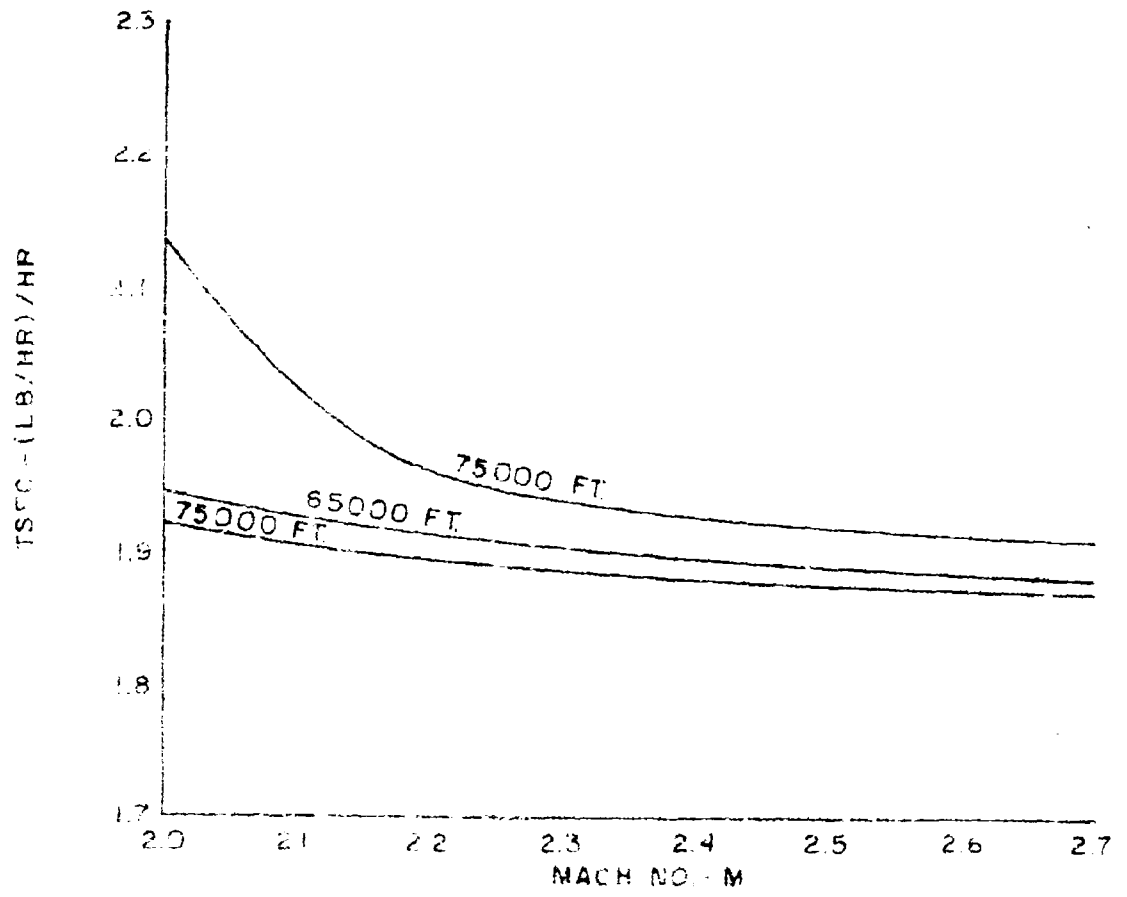
Pratt & Whitney Aircraft U A

ENGINE MODEL STF 219B

ESTIMATED TSFC AT MAXIMUM DUCT HEATING

LOW AIRFLOW SCHEDULE — MAXIMUM THRUST

U.S. STANDARD ATMOSPHERE-1962(GEOM.) — RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CURVE NO. T-1638
SHEET 15

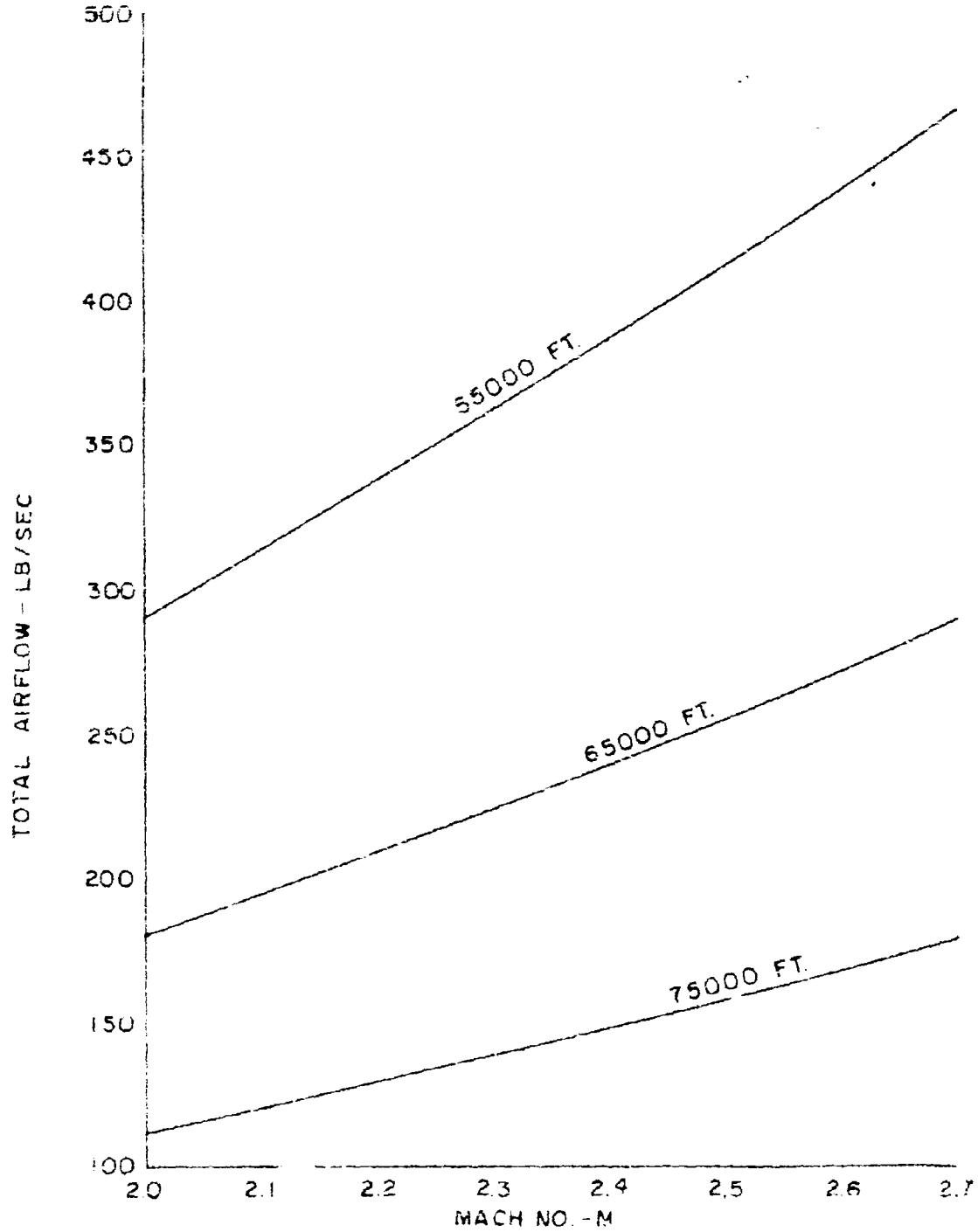
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED TOTAL AIRFLOW

LOW AIRFLOW SCHEDULE — MAXIMUM THRUST

U.S STANDARD ATMOSPHERE - 1962 (GEOM.) — RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CURVE NO. T-1688
SHEET 16

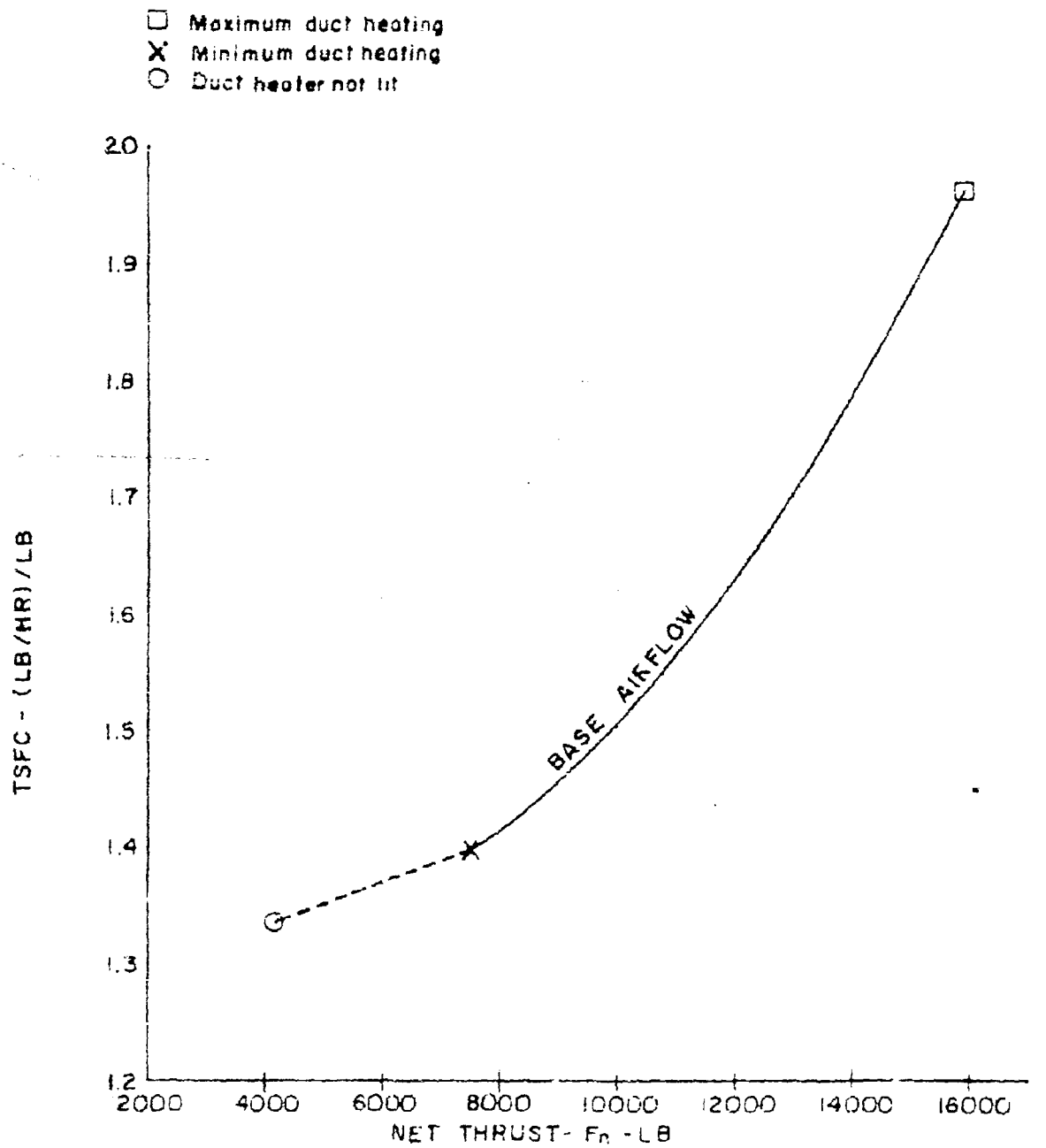
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

Pratt & Whitney Aircraft

ENGINE MODEL STF 219B
ESTIMATED PERFORMANCE WITH PARTIAL DUCT HEATING

65000 FEET MACH NO. = 2.2 MAXIMUM CRUISE
U.S. STANDARD ATMOSPHERE - 1962 (GEOM) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64 CONFIDENTIAL CURVE NO. T-1688
SHEET 17

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

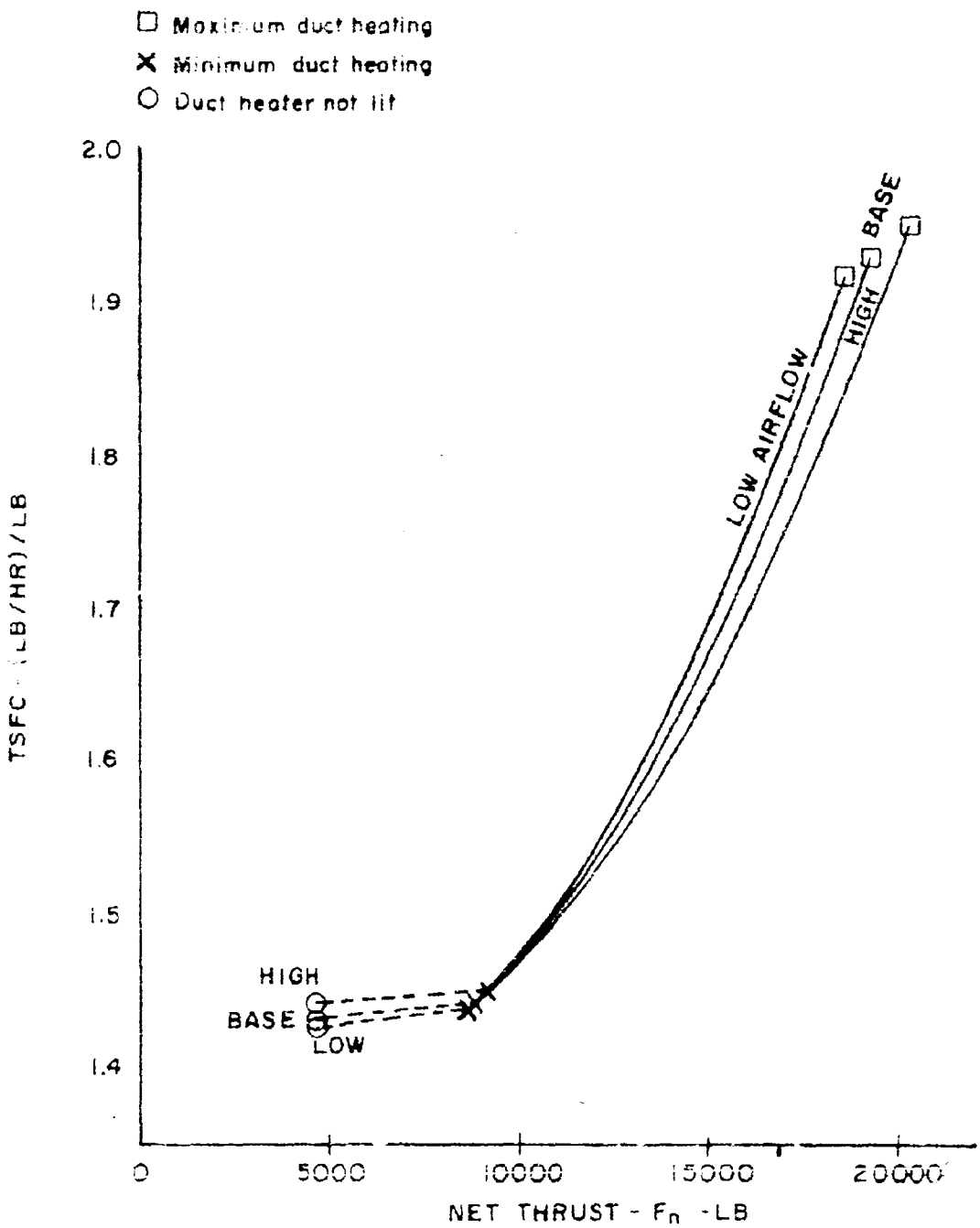
Pratt & Whitney Aircraft

U
A

ENGINE MODEL STF 219B
ESTIMATED PERFORMANCE WITH PARTIAL DUCT HEATING

65000 FEET MACH NO. = 2.5 MAXIMUM CRUISE

U.S. STANDARD ATMOSPHERE - 1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

CURVE NO. T-1688

SHEET 18

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

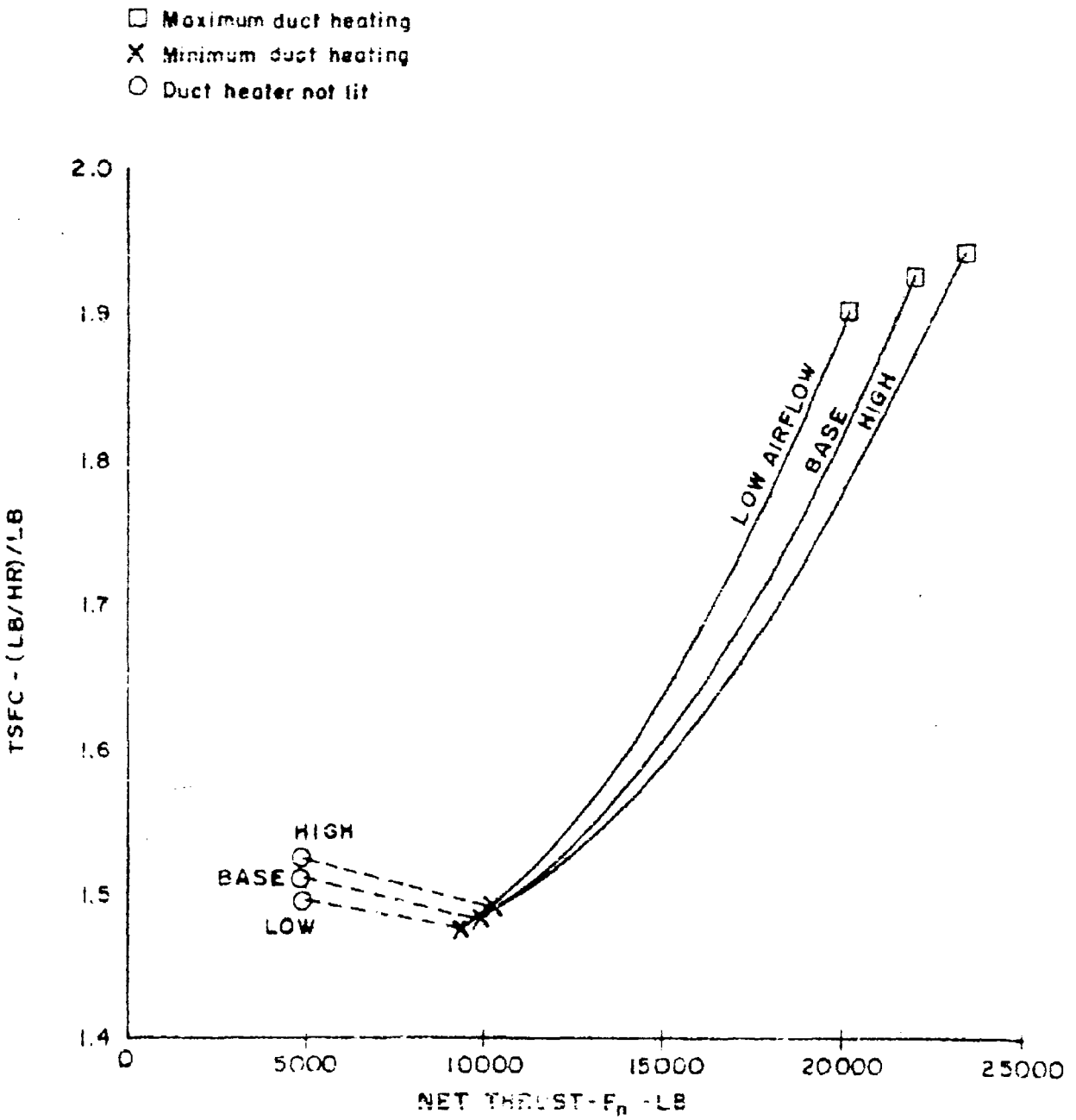
Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 2198

ESTIMATED PERFORMANCE WITH PARTIAL DUCT HEATING

65000 FEET MACH NO. = 2.7 MAXIMUM CRUISE

U.S. STANDARD ATMOSPHERE-1962(GEOM.) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

CURVE NO T-1688
SHEET 19

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

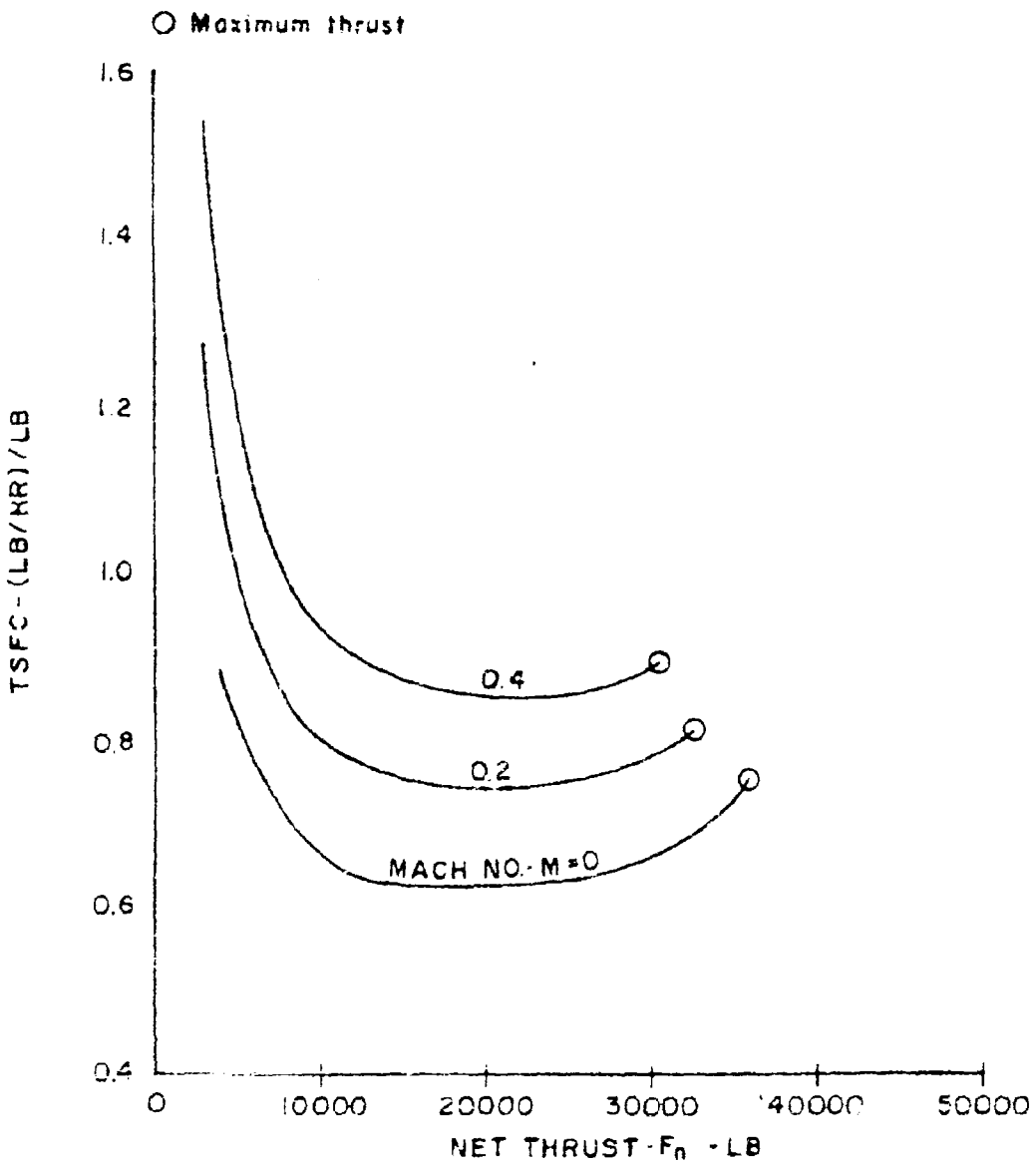
Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B

ESTIMATED PERFORMANCE WITH DUCT HEATER NOT LIT

SEA LEVEL

U. S. STANDARD ATMOSPHERE - 1962(GEOM) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CURVE NO T-1888
SHEET 20

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

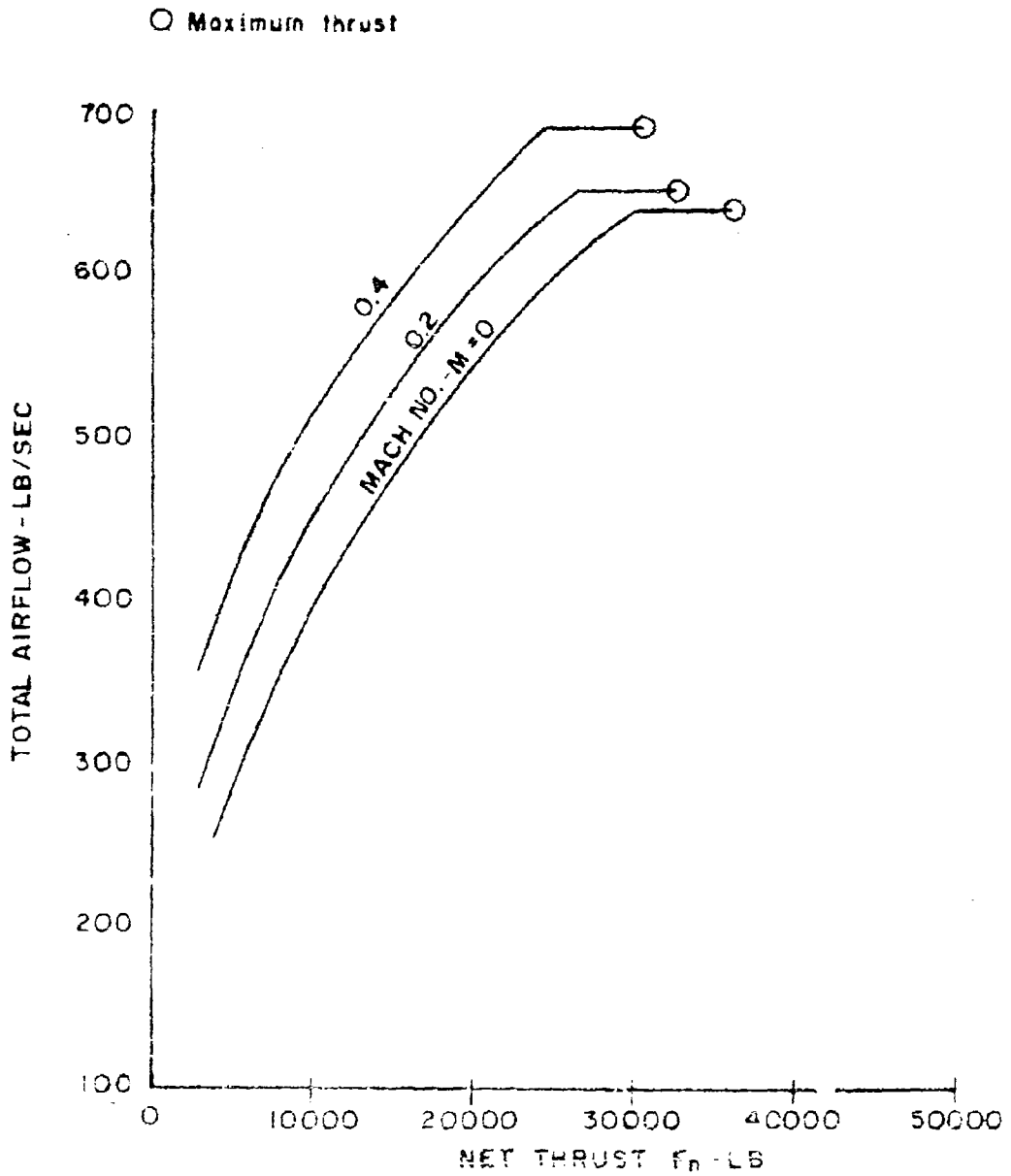
Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B

ESTIMATED TOTAL AIRFLOW WITH DUCT HEATER NOT LIT

SEA LEVEL

U.S. STANDARD ATMOSPHERE-1962(GEOM.) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CONFIDENTIAL

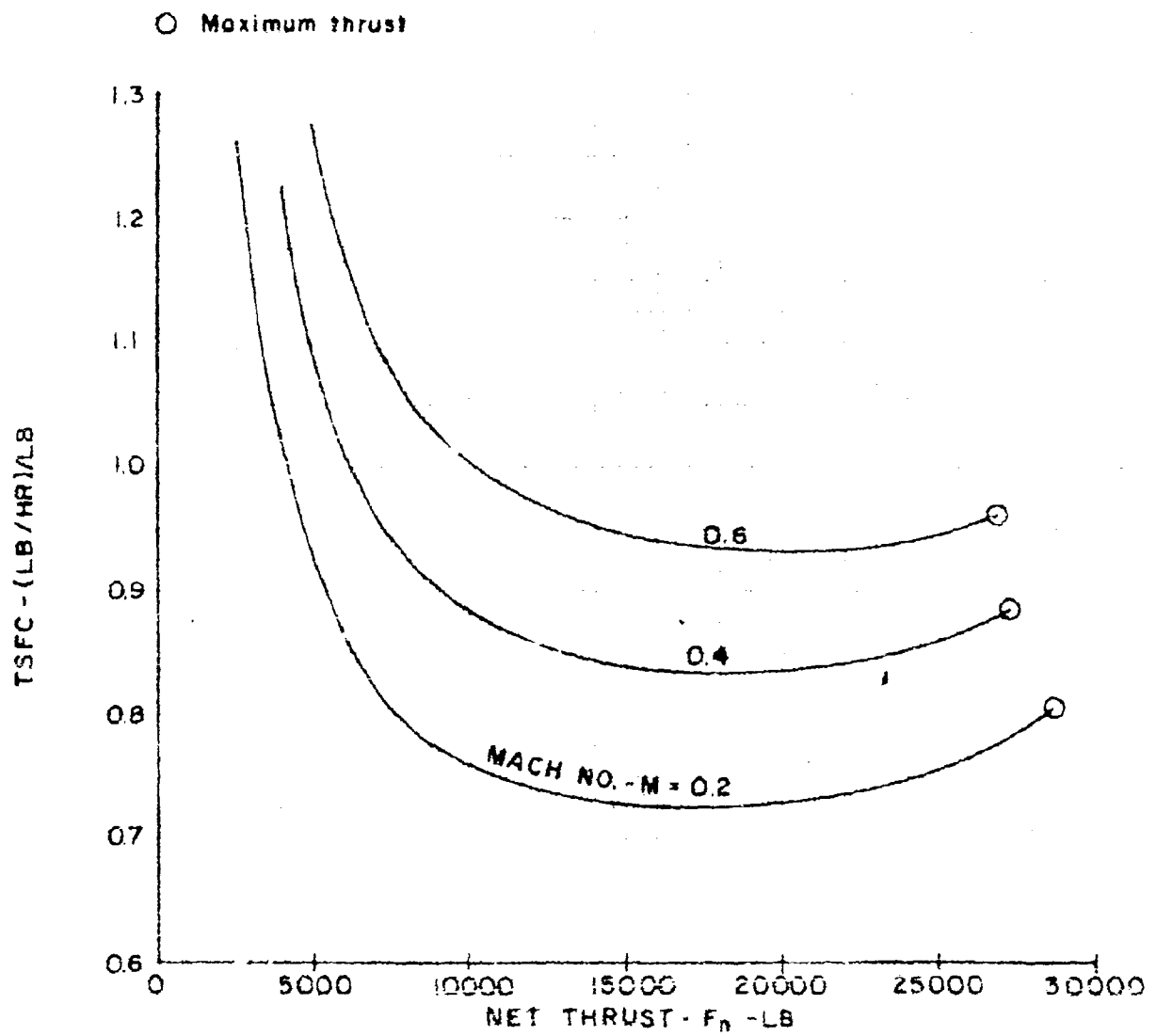
CURVE NO. T-1688
SHEET 21

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED PERFORMANCE WITH DUCT HEATER NOT LIT
5000 FEET

U.S. STANDARD ATMOSPHERE-1962(GEOM.) RAM RECOVERY PER MIL-E-5008B



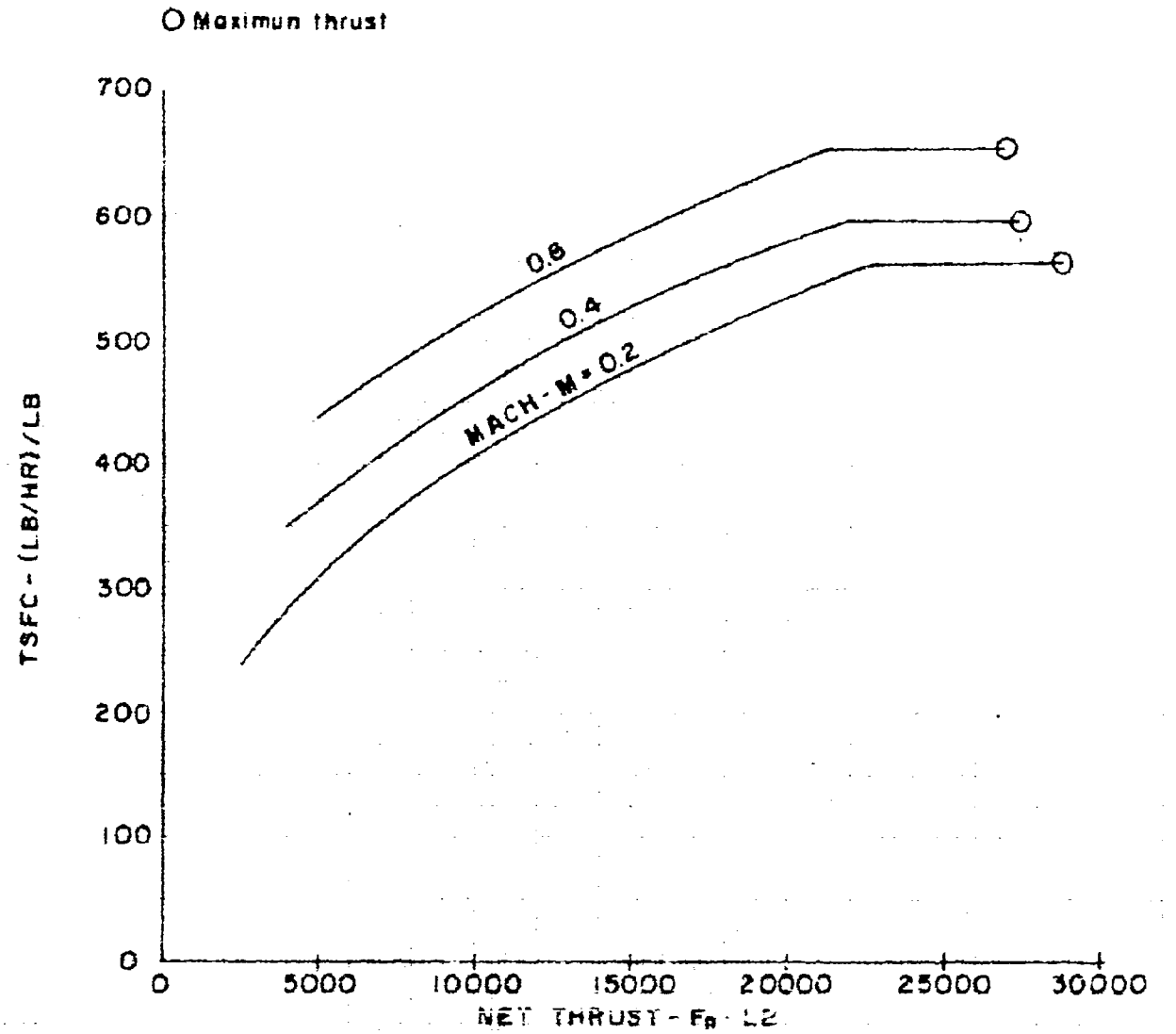
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED TOTAL AIRFLOW WITH DUCT HEATER NOT LIT
5000 FEET

U.S. STANDARD ATMOSPHERE-1962(GEOM.) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

CURVE NO T-1688
SHEET 23

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

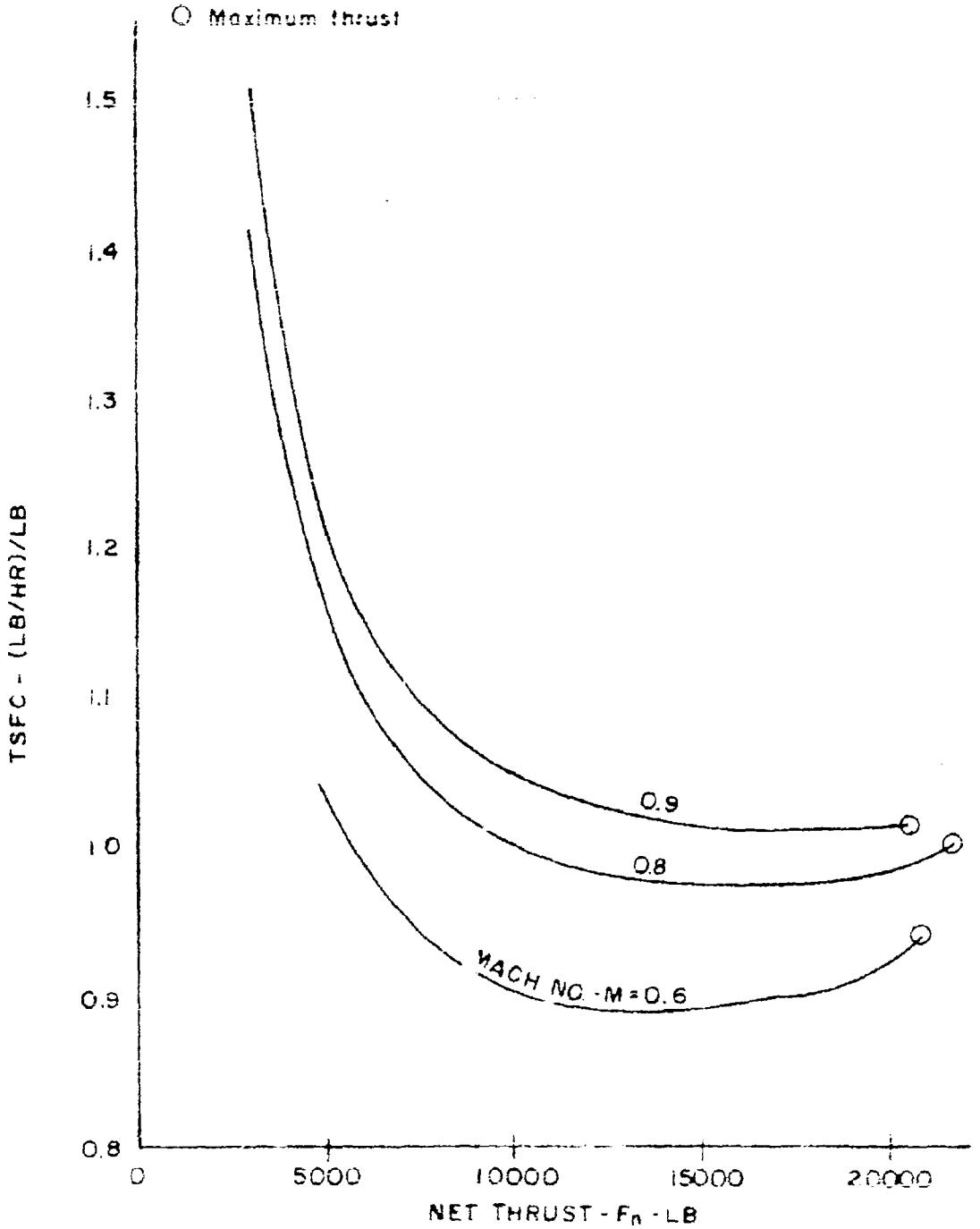
Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 2198

ESTIMATED PERFORMANCE WITH DUCT HEATER NOT LIT

15000 FEET

U.S. STANDARD ATMOSPHERE-1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

CURVE NO. T-1688
SHEET 24

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

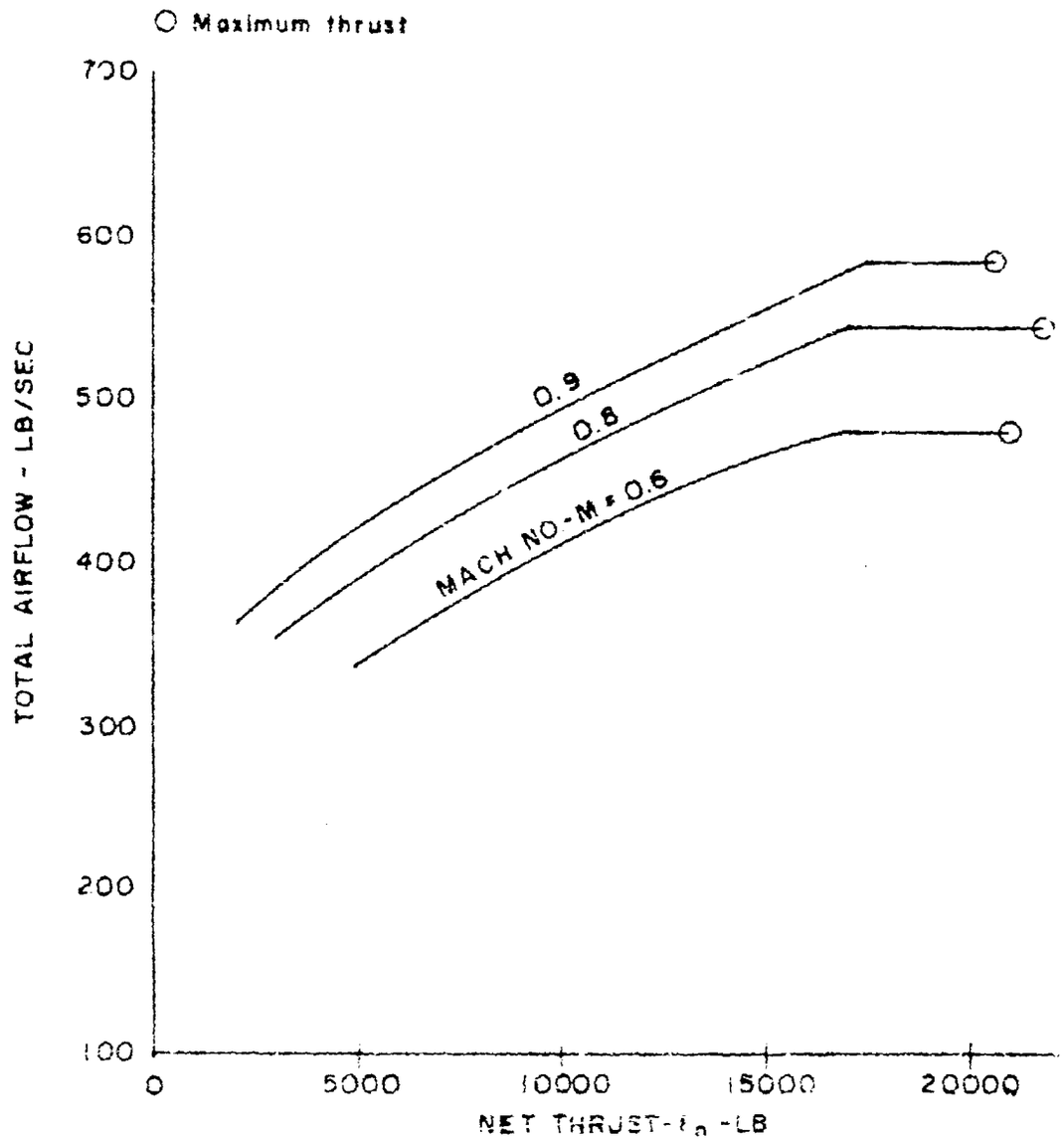
Pratt & Whitney Aircraft UA

ENGINE MODEL STF219B

ESTIMATED TOTAL AIRFLOW WITH DUCT HEATER NOT LIT

15000 FEET

U S STANDARD ATMOSPHERE-1962 (GEOM.) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CONFIDENTIAL

CURVE NO. T-1686
SHEET 25

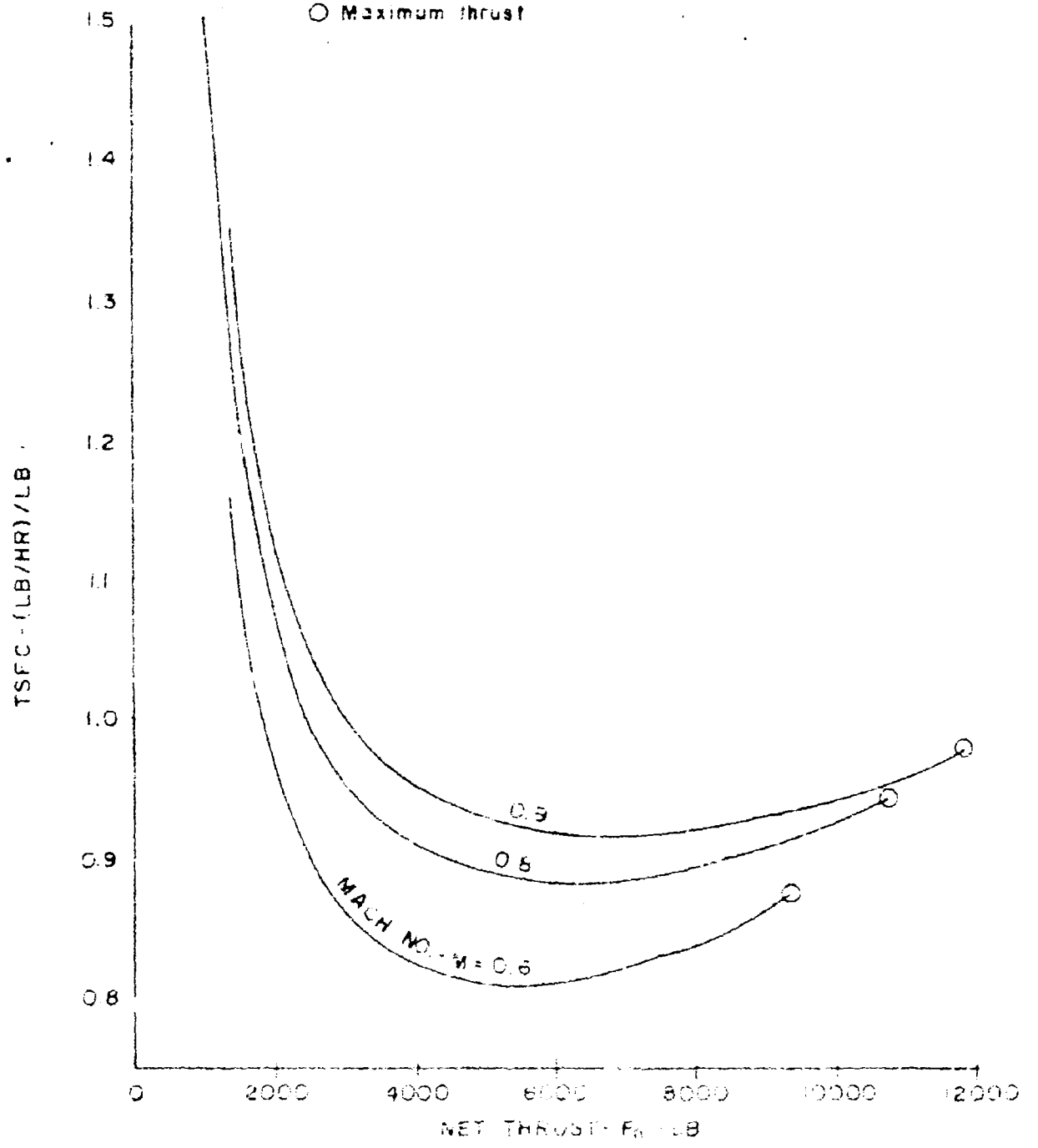
DECLASSIFIED AFTER 12 YRS
DOD DIR 5200.10

CONFIDENTIAL

Pratt & Whitney Aircraft U A

ENGINE MODEL STF 219B
ESTIMATED PERFORMANCE WITH DUCT HEATER NOT LIT
36150 FEET

U.S. STANDARD ATMOSPHERE - 1962 (GEOM.) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CONFIDENTIAL

CURVE NO T-1689
SHEET 26

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

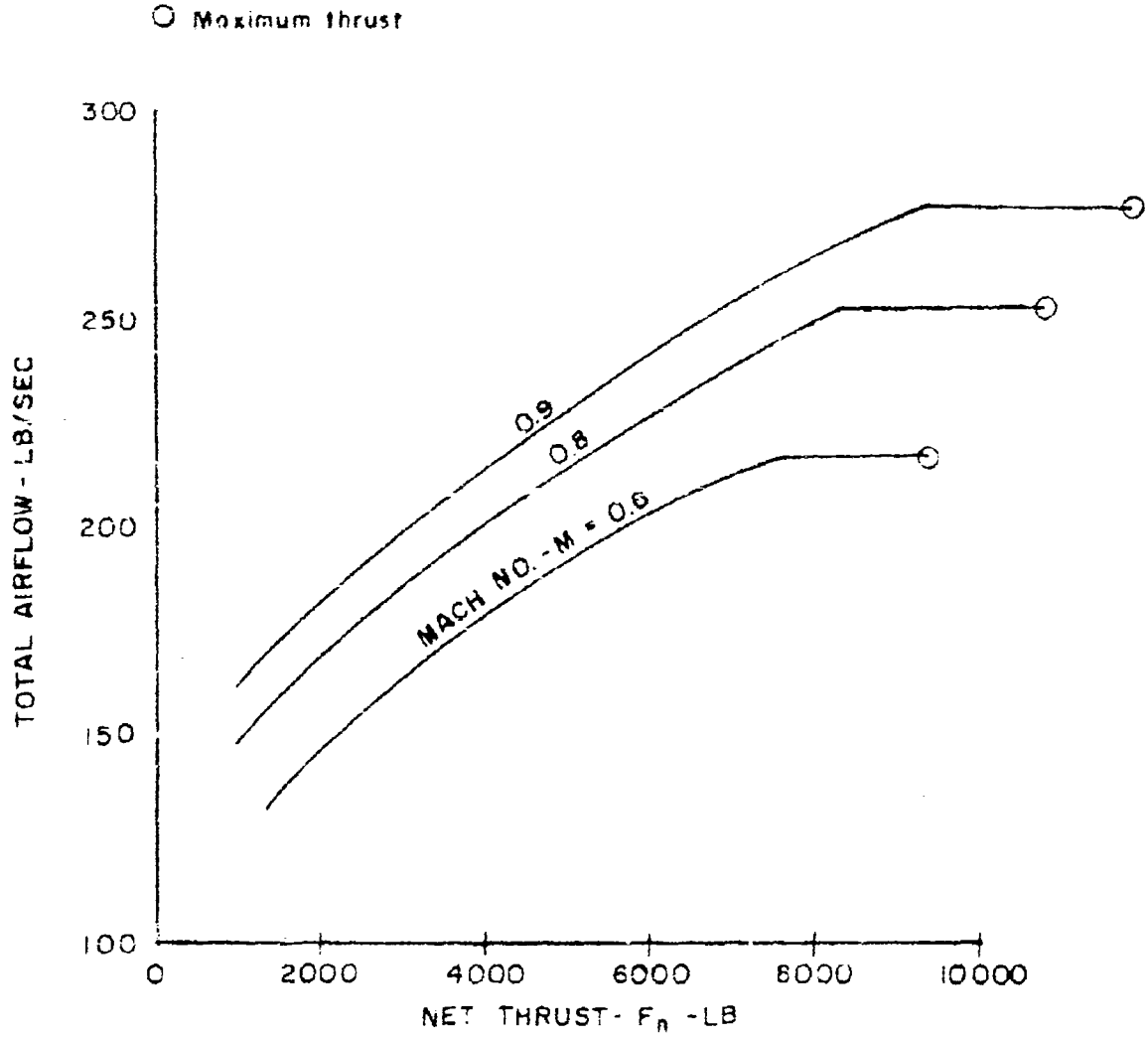
Pratt & Whitney Aircraft U A

ENGINE MODEL STF 219B

ESTIMATED TOTAL AIRFLOW WITH DUCT HEATER NOT LIT

36150 FEET

U.S. STANDARD ATMOSPHERE - 1962 (GEOM) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CURVE NO. T-1688
SHEET 27

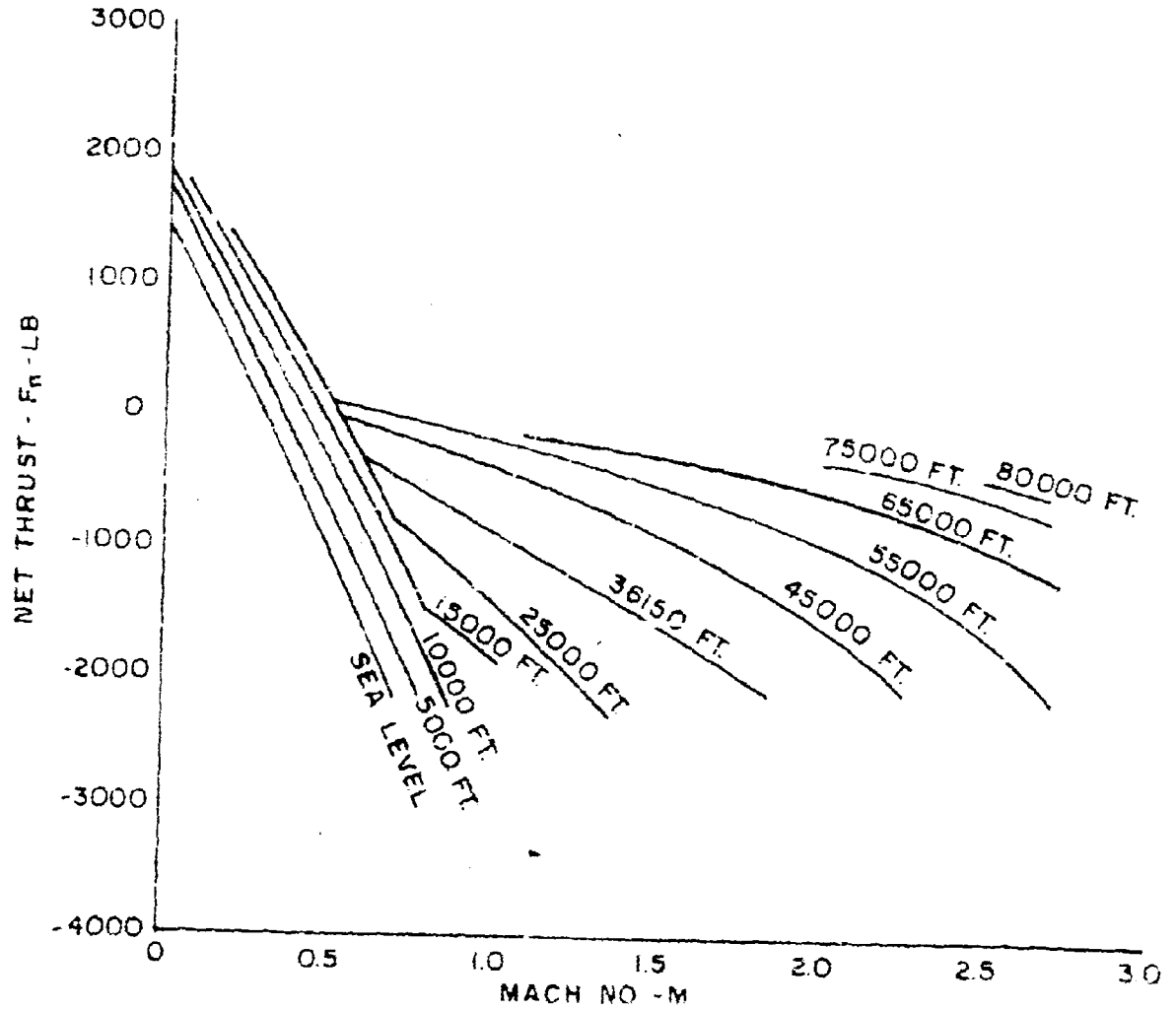
Pratt & Whitney Aircraft

U
A

ENGINE MODEL STF 219B
ESTIMATED THRUST AT IDLE

U.S. STANDARD ATMOSPHERE-1962 (GEOM)

RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

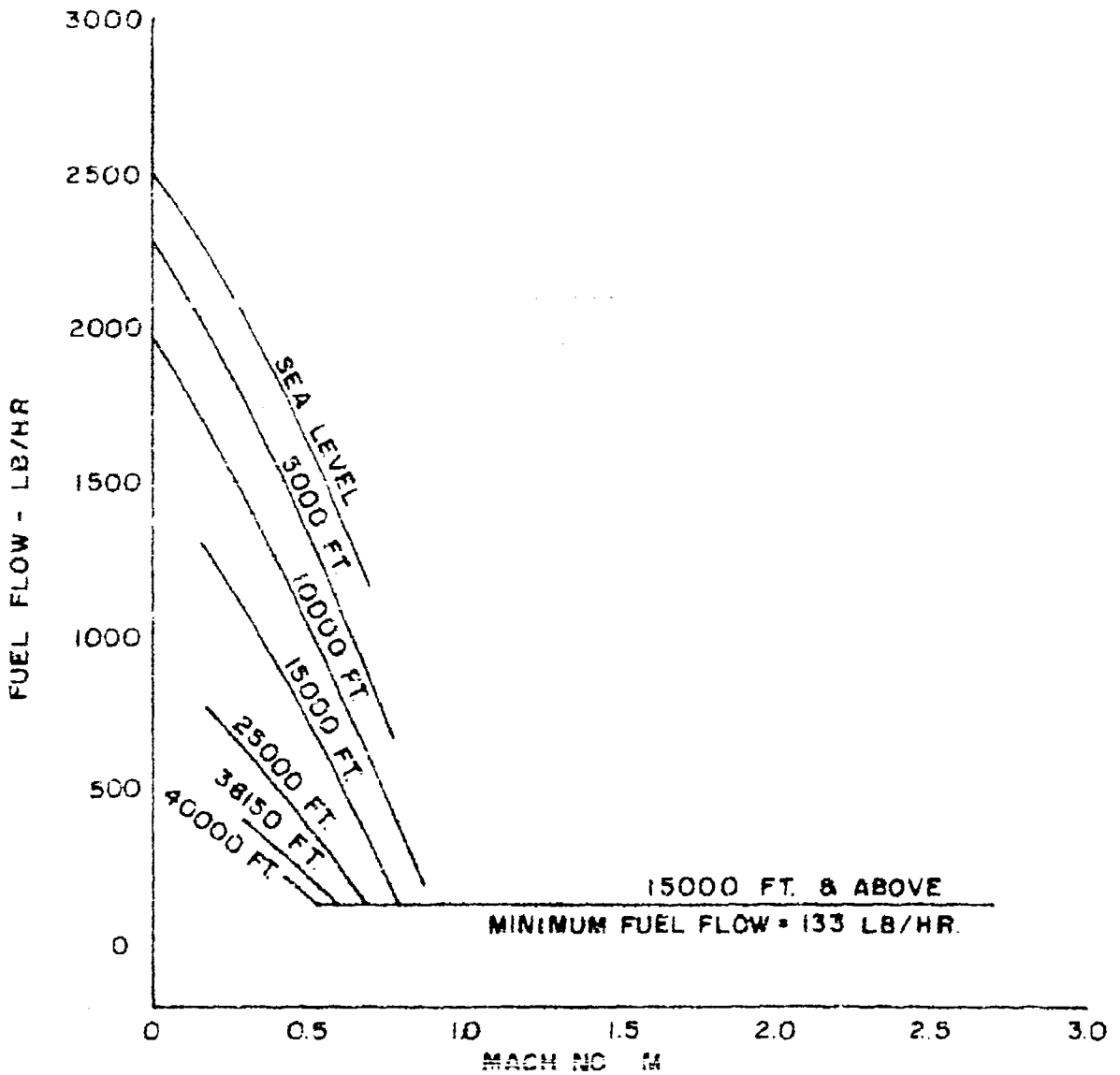
CURVE NO. T-1688
SHEET 28A

Pratt & Whitney Aircraft

UA

ENGINE MODEL STF 219B
ESTIMATED FUEL FLOW AT IDLE

U S STANDARD ATMOSPHERE-1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

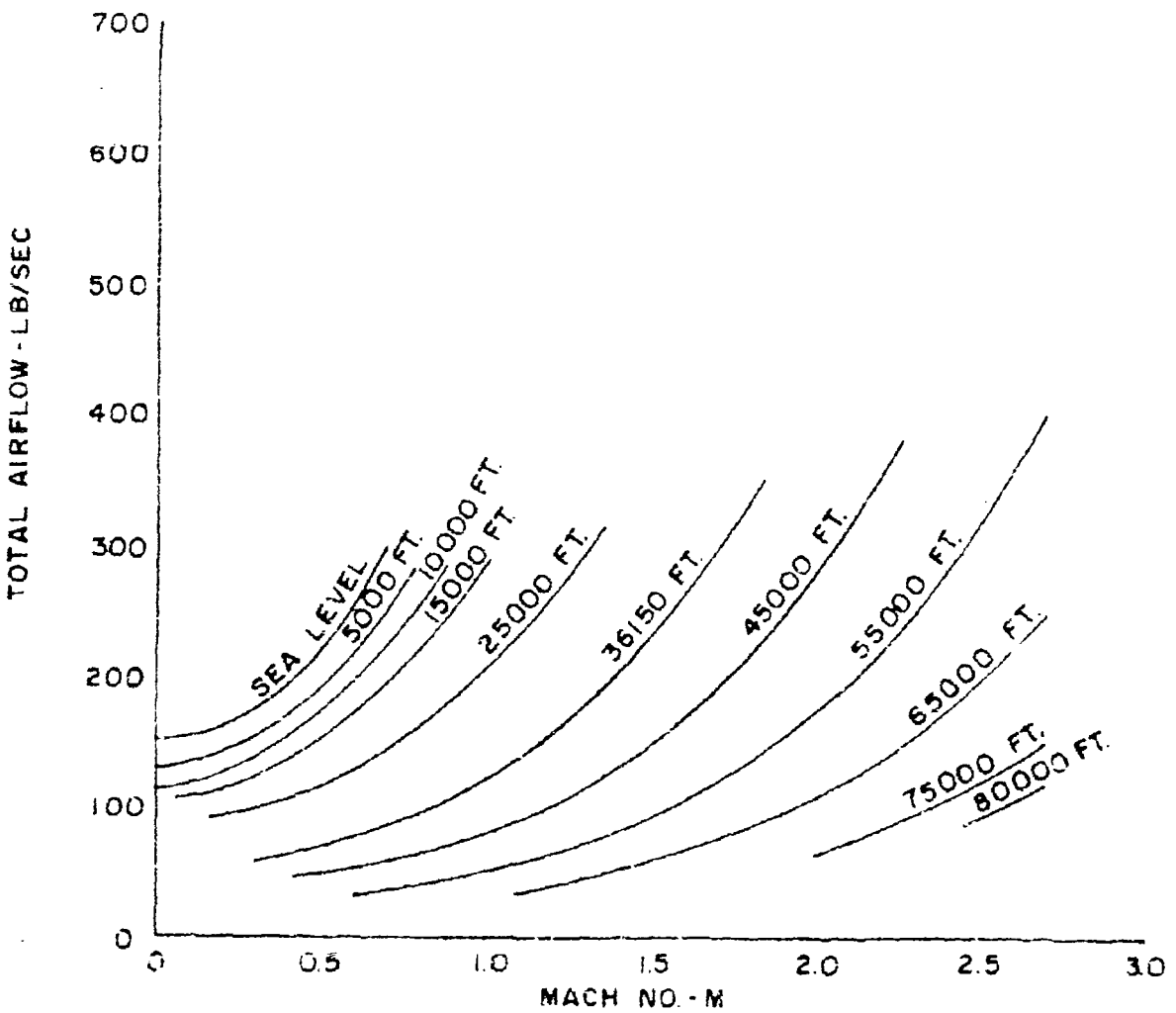
CONFIDENTIAL

CURVE NO. T-1688
SHEET 288

Pratt & Whitney Aircraft UA

ENGINE MODEL STF 219B
ESTIMATED AIRFLOW AT IDLE

U.S. STANDARD ATMOSPHERE - 1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B

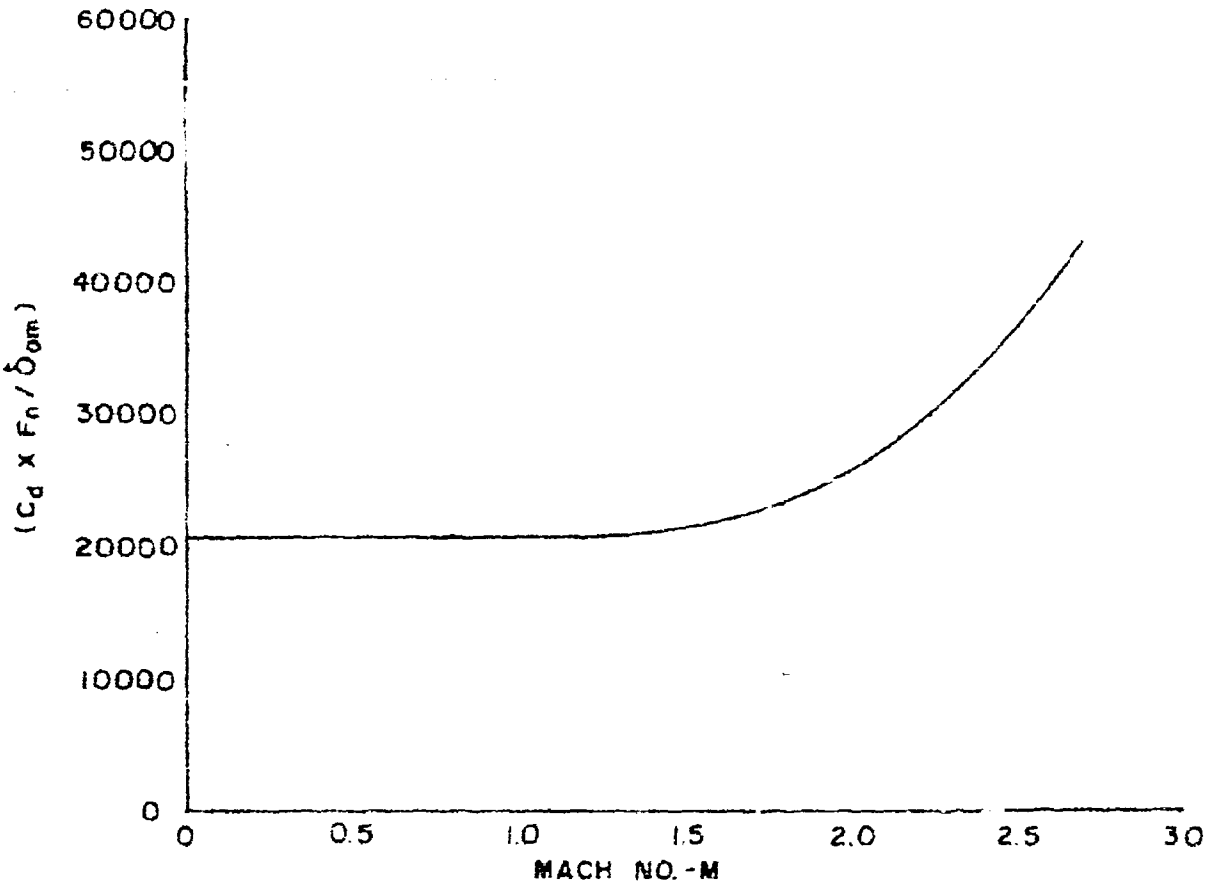


DATE 10-15-64 CONFIDENTIAL CURVE NO. T-1688
SHEET 29

ENGINE MODEL STF 219B

ESTIMATED THRUST CORRECTION FACTOR DUE TO DUCT LOSS AT IDLE

U S STANDARD ATMOSPHERE - 1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CONFIDENTIAL

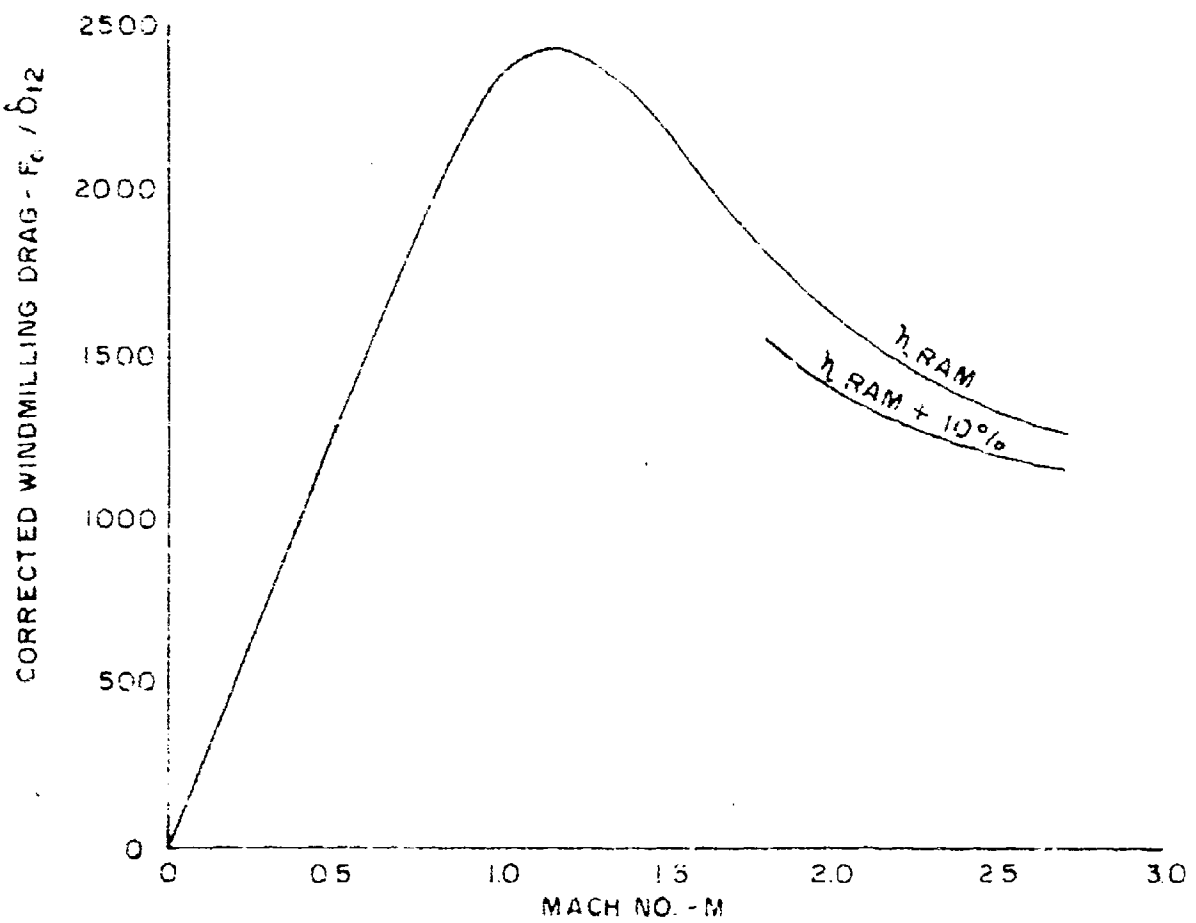
CURVE NO. T-1688
SHEET 30

Pratt & Whitney Aircraft

U
A

ENGINE MODEL STF 219B
ESTIMATED FREE WINDMILLING CORRECTED DRAG

U.S. STANDARD ATMOSPHERE - 1962 (GEOM) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CONFIDENTIAL

CURVE NO T-1688
SHEET 31

CONFIDENTIAL

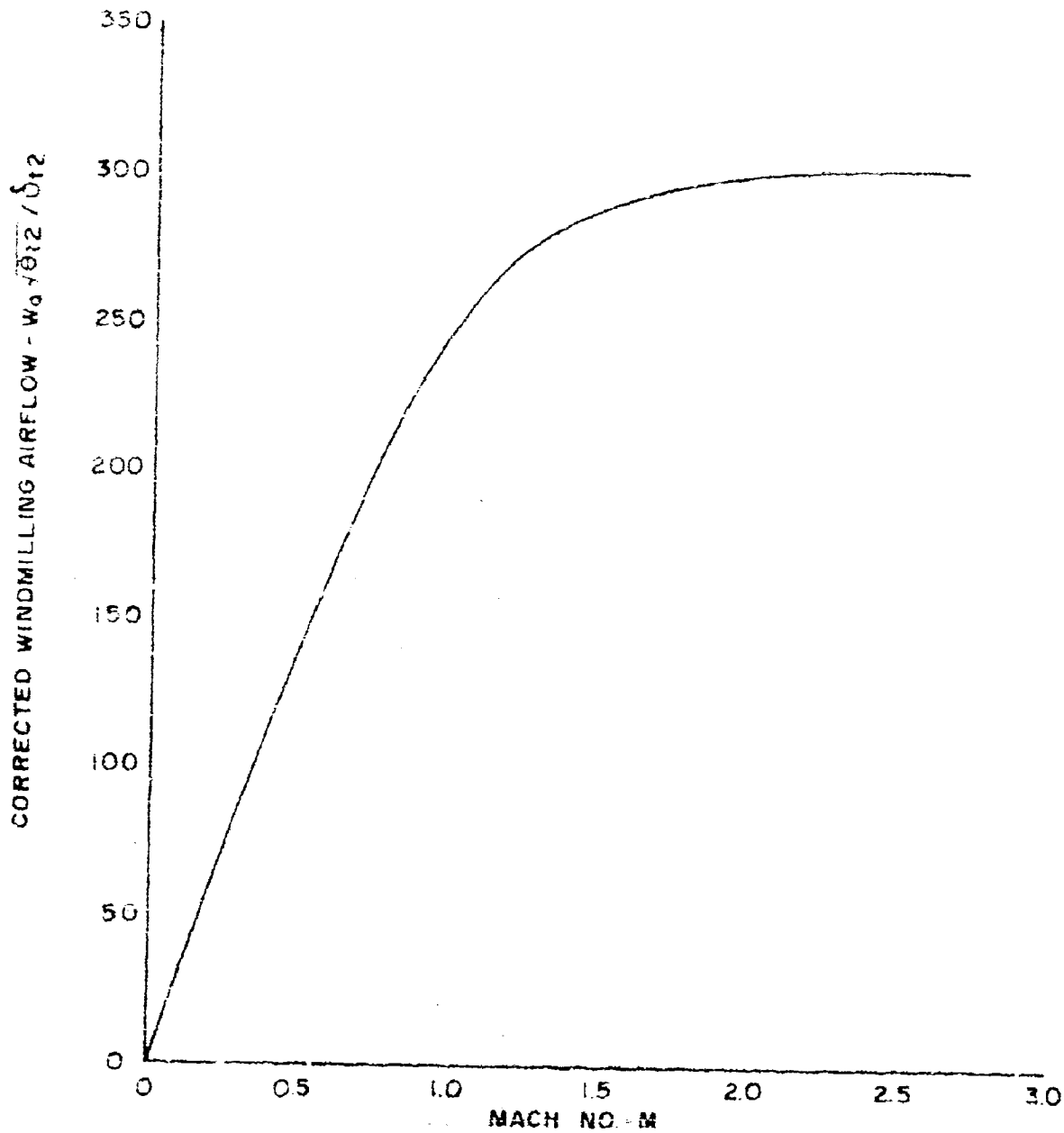
Pratt & Whitney Aircraft

U
A

ENGINE MODEL STF 219B

ESTIMATED FREE WINDMILLING CORRECTED AIRFLOW

U.S. STANDARD ATMOSPHERE-1962(GEOM) RAM RECOVERY PER MIL-E-5008B



DATE

CONFIDENTIAL

CURVE NO. T-1688
SHEET 32

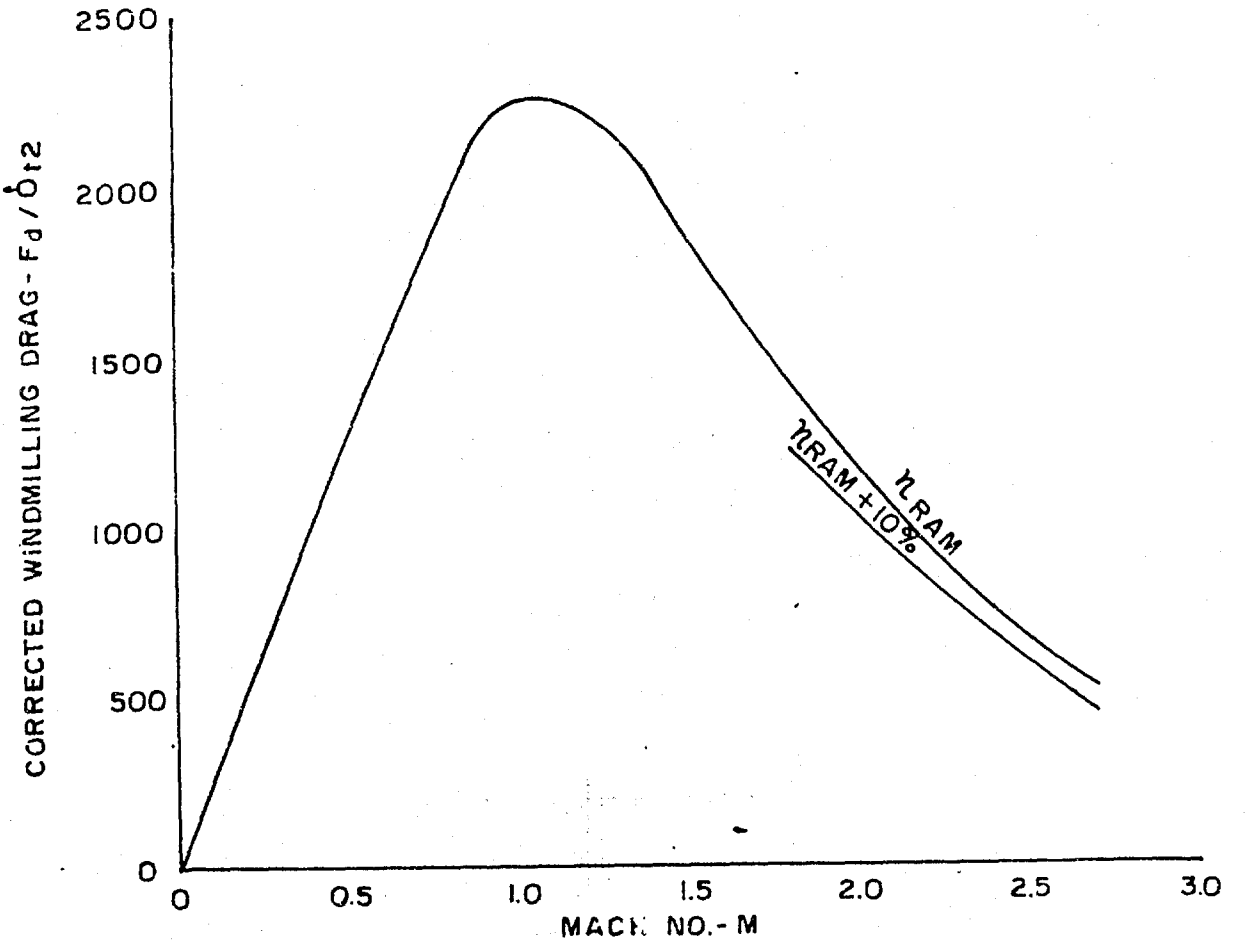
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED WINDMILLING CORRECTED DRAG
WITH SPEED BRAKE ON

U. S. STANDARD ATMOSPHERE - 1962 (GEOM.) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CONFIDENTIAL

CURVE NO. T-1688
CURVE 33

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

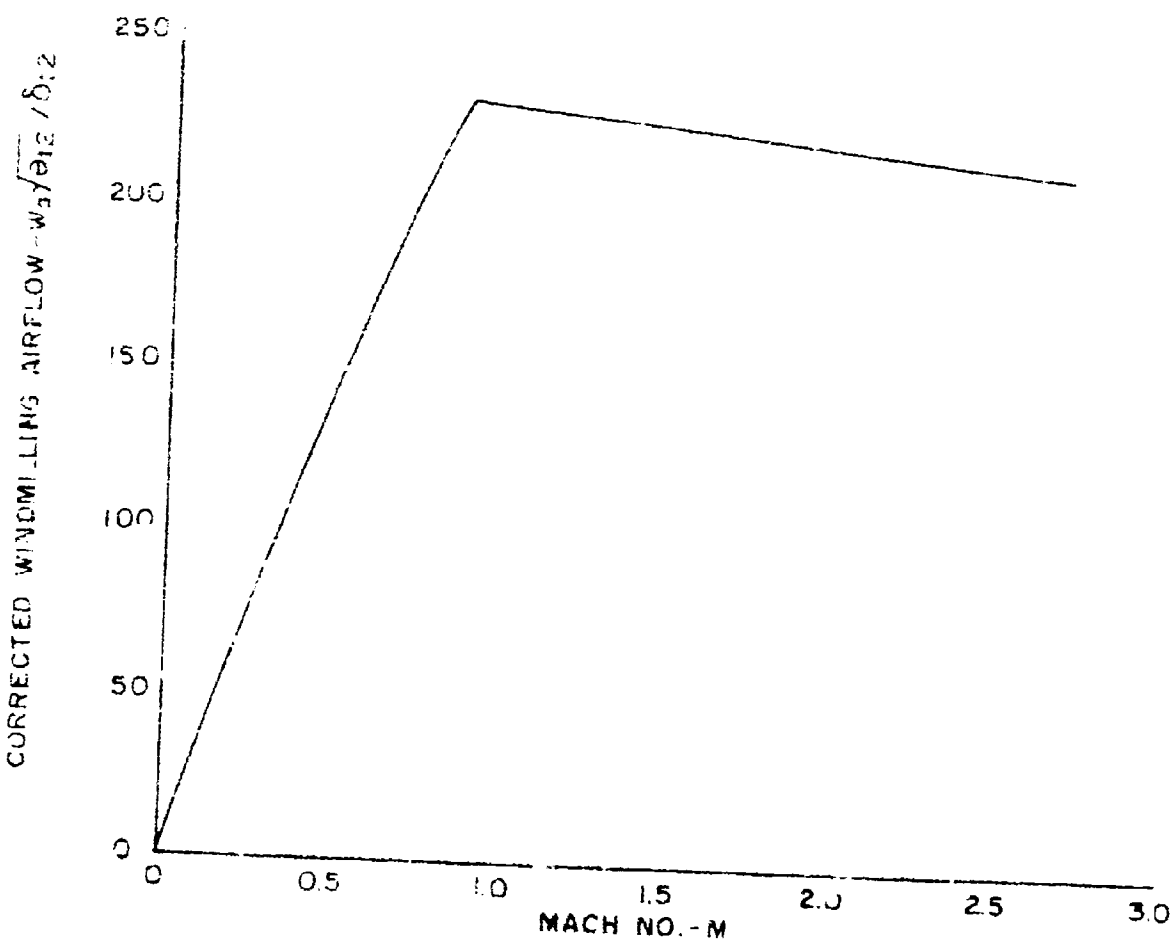
Pratt & Whitney Aircraft

U
A

ENGINE MODEL STF 219B
ESTIMATED WINDMILLING CORRECTED AIRFLOW
WITH SPEED BRAKE ON

U S STANDARD ATMOSPHERE-1962 (GEOM.)

RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CURVE NO T-1688
SHEET 34

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

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Pratt & Whitney Aircraft

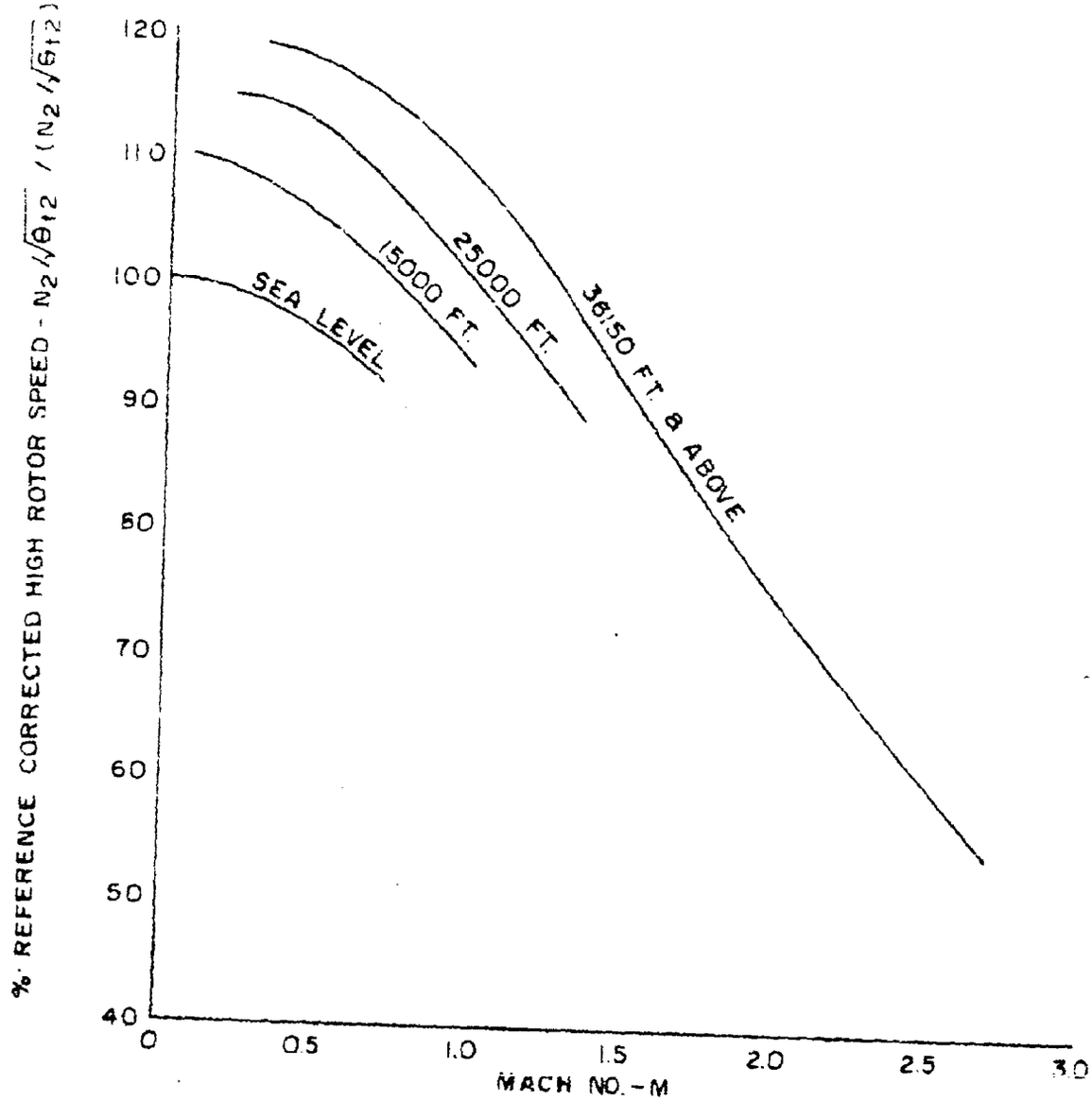
U
A

ENGINE MODEL STF 219B
ESTIMATED HIGH ROTOR SPEED

TAKE-OFF & MAXIMUM THRUST
U.S. STANDARD ATMOSPHERE - 1962 (GEOM.)

BASE AIRFLOW SCHEDULE
RAM RECOVERY PER MIL-E-5008B

NOTE - Reference $N_2/\sqrt{\theta_{t2}}$ = 7990 RPM



DATE 10-15-64

CONFIDENTIAL

CURVE NO. T-1688
SHEET 35

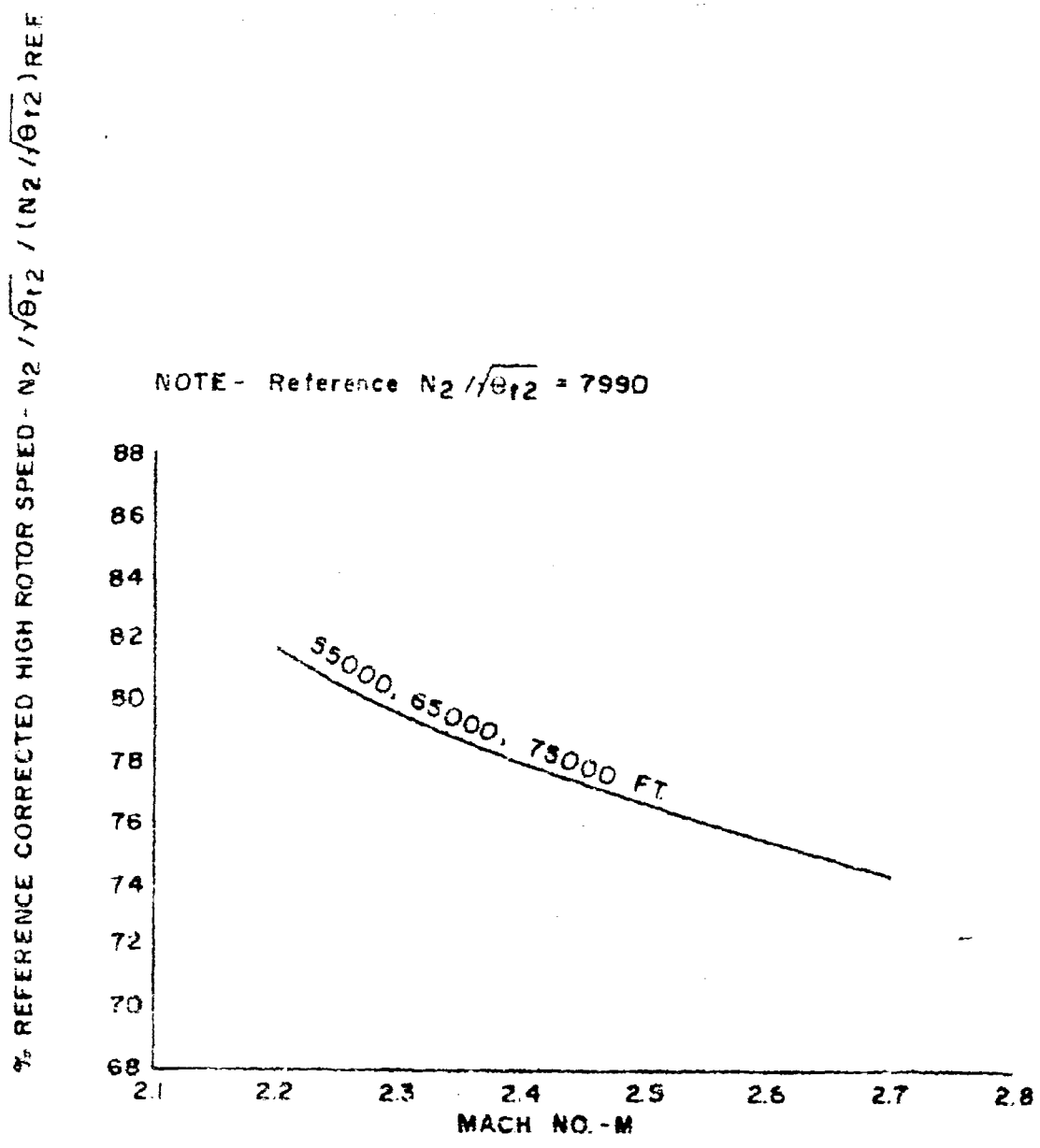
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft — U A

ENGINE MODEL STF 219B
ESTIMATED HIGH ROTOR SPEED

MAXIMUM CRUISE
U.S. STANDARD ATMOSPHERE-1962 (GEOM)

BASE AIRFLOW SCHEDULE
RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

CURVE NO T-1688
SHEET 36

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

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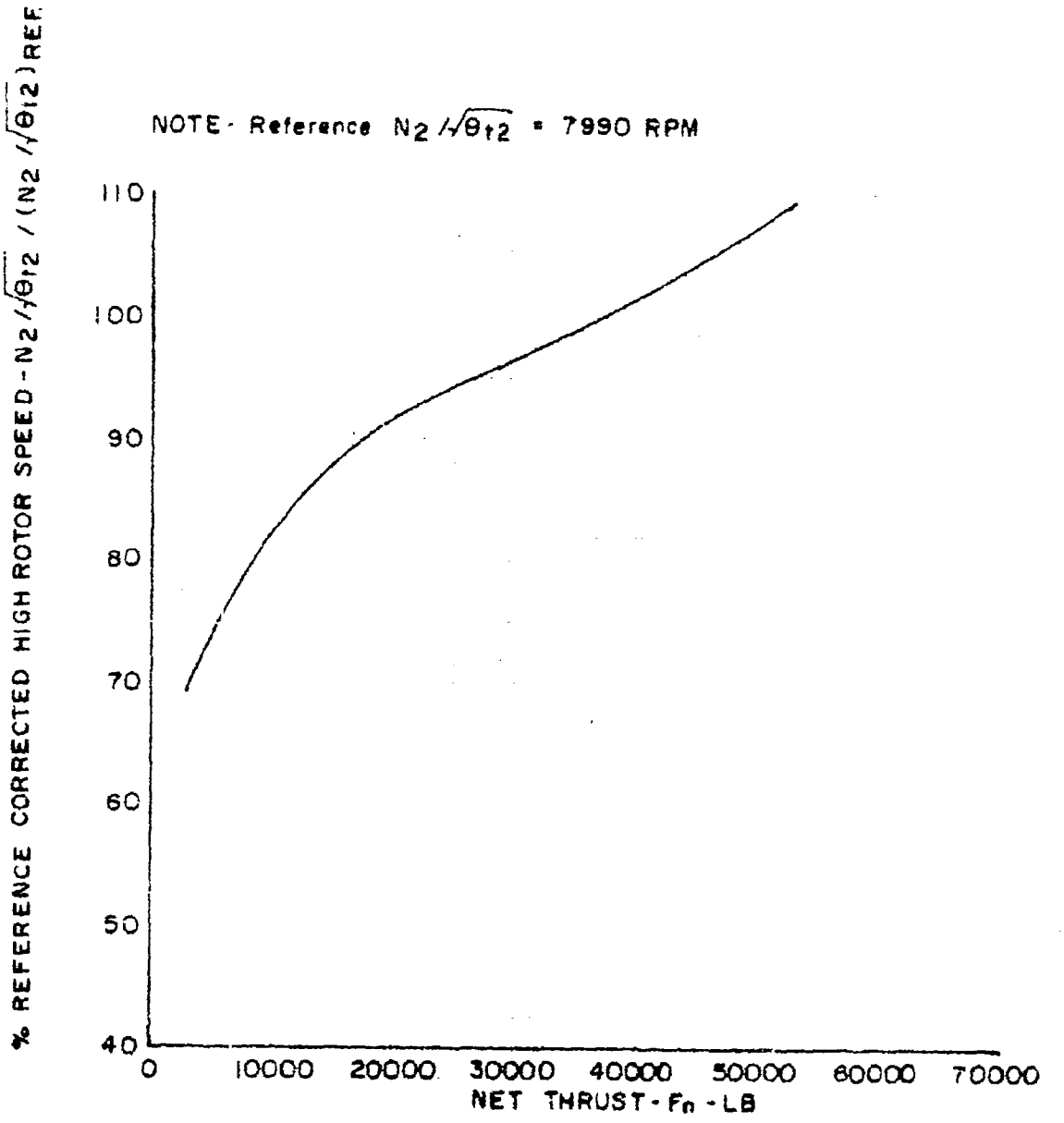
Pratt & Whitney Aircraft UA

ENGINE MODEL STF 219B
ESTIMATED HIGH ROTOR SPEED
SUBSONIC PART POWER

U.S. STANDARD ATMOSPHERE-1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

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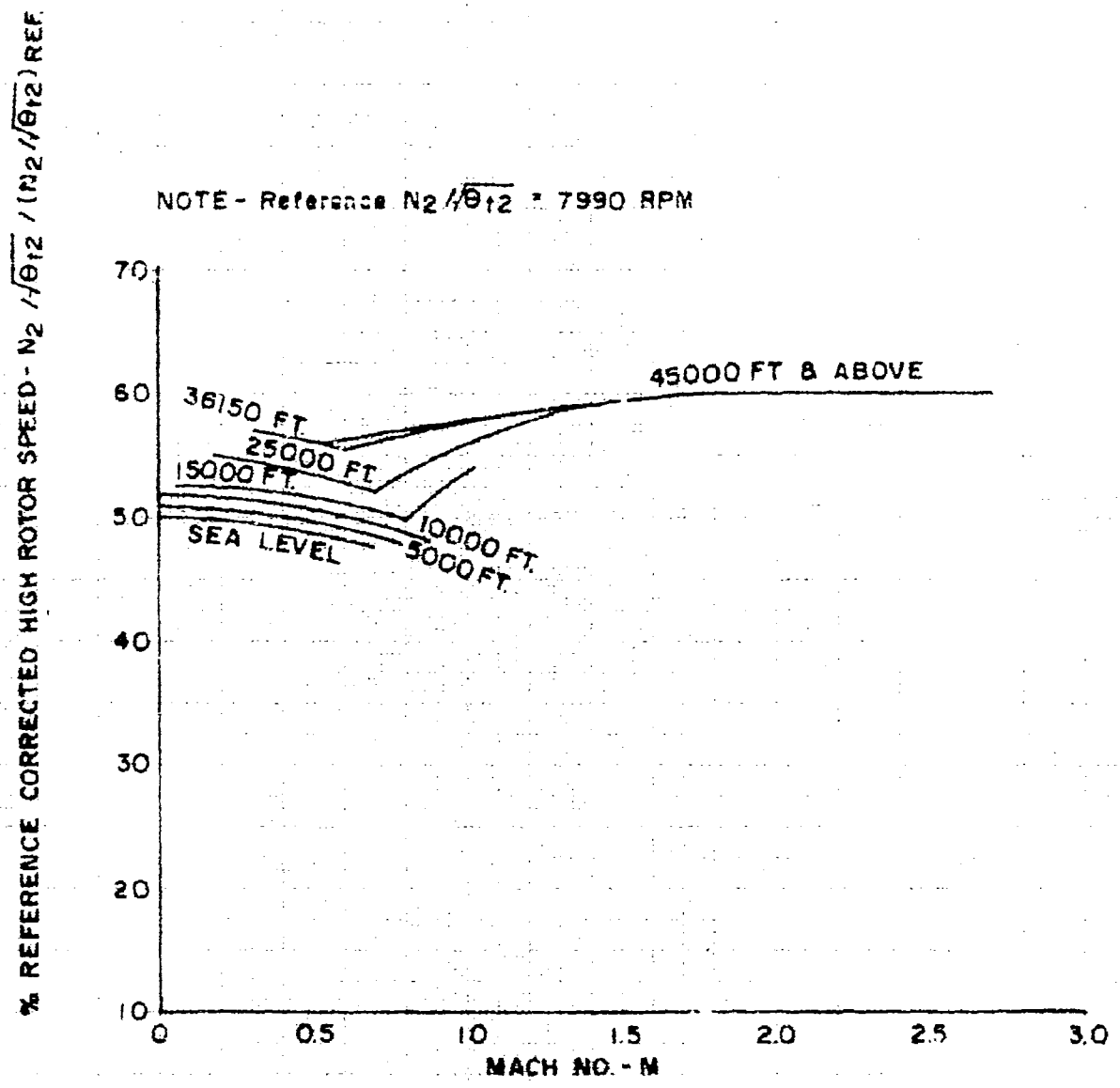
CURVE NO. Y-1688
SHEET 37

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft UA

ENGINE MODEL STF 219B
ESTIMATED HIGH ROTOR SPEED
IDLE

U.S. STANDARD ATMOSPHERE-1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B



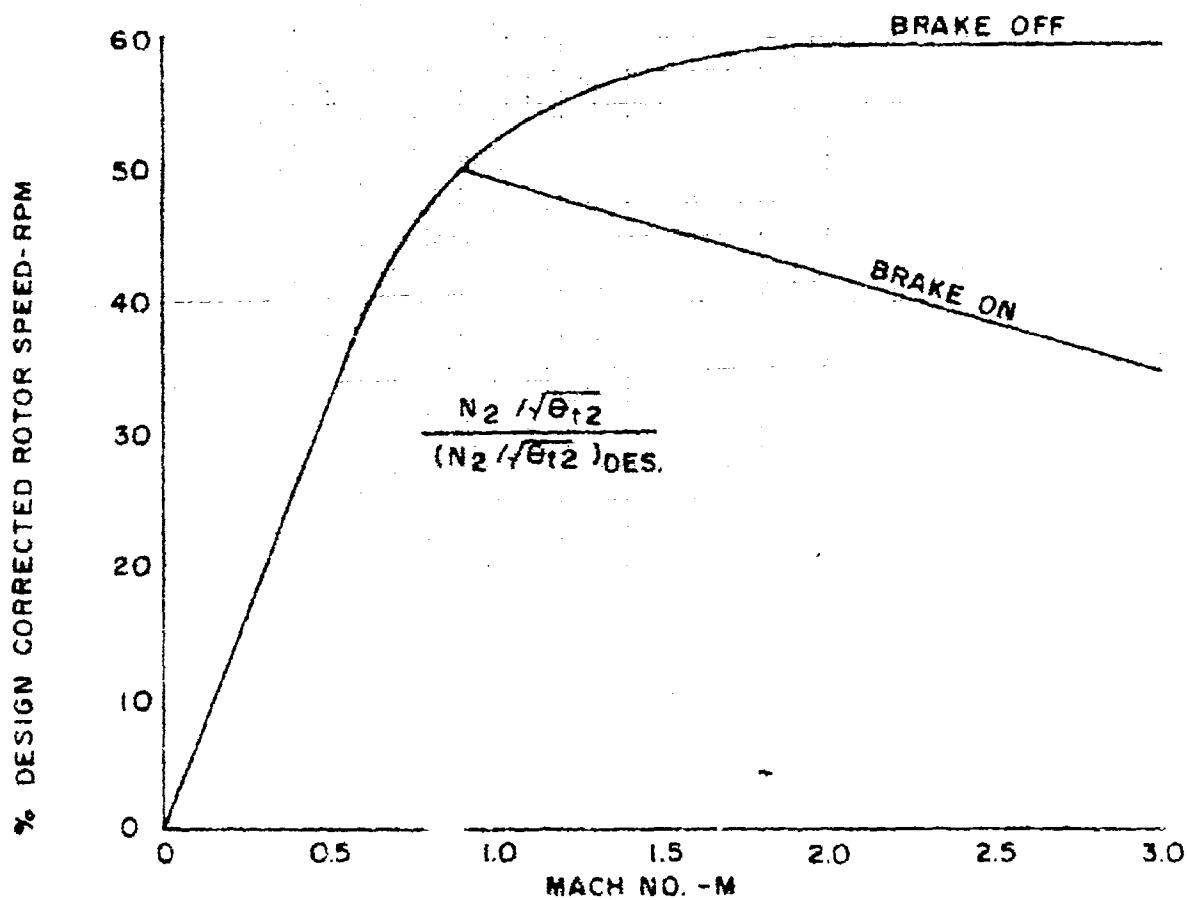
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft UA

ENGINE MODEL STF 219B
ESTIMATED CORRECTED WINDMILLING ROTOR SPEED

U.S. STANDARD ATMOSPHERE -1962(GEOM.) RAM RECOVERY PER MIL-E-5008B

NOTE - Design corrected high rotor speed - $N_2/\sqrt{\theta_{t2}}$ = 7990 RPM



DATE 10-15-64 CONFIDENTIAL CURVE NO. T-1685
SHEET 39

DECLASSIFIED AFTER 12 YEARS
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Pratt & Whitney Aircraft — UA

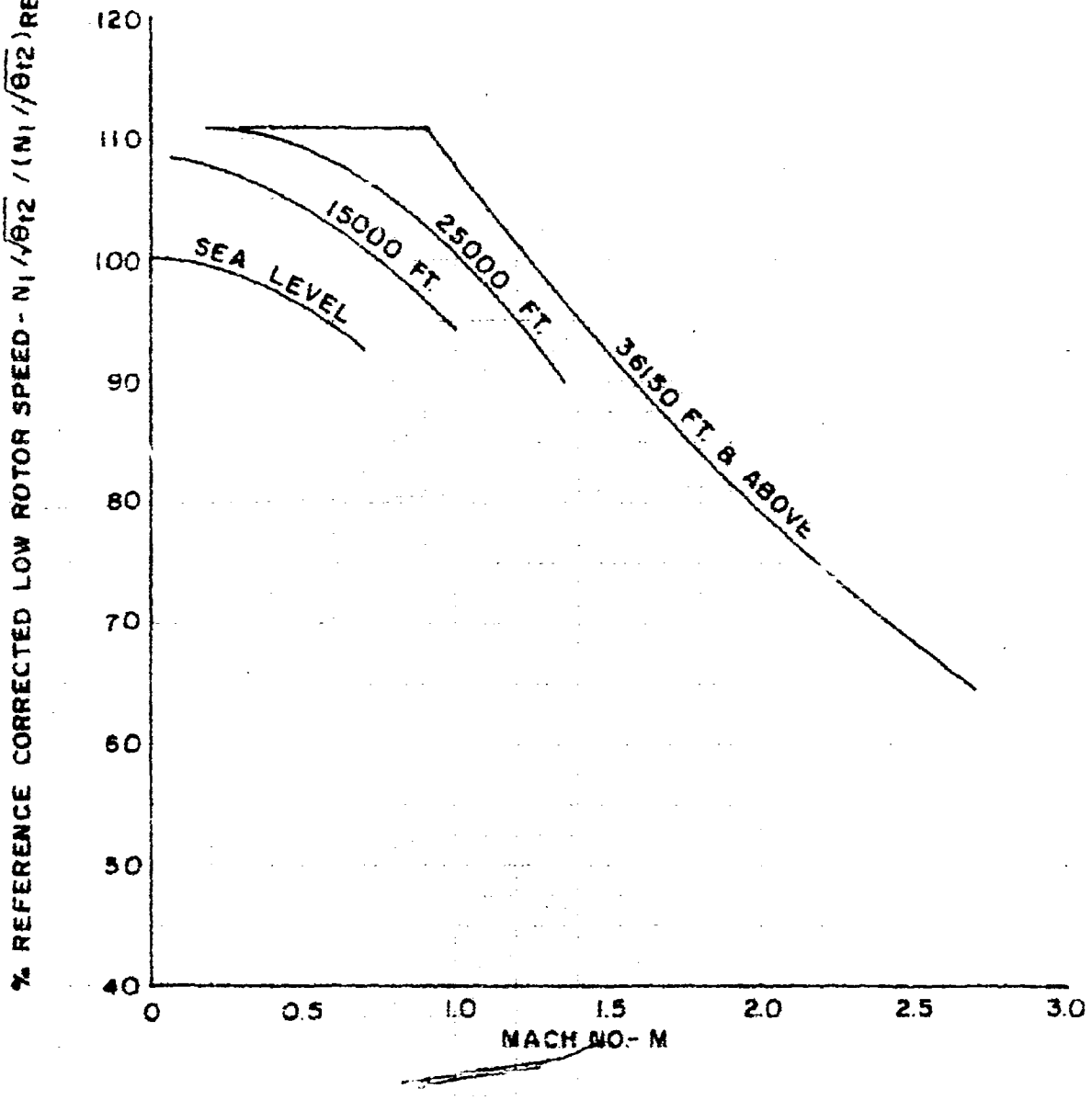
ENGINE MODEL STF 219B

ESTIMATED LOW ROTOR SPEED

TAKE-OFF & MAXIMUM THRUST
U.S. STANDARD ATMOSPHERE-1962(GEOM.)

BASE AIRFLOW SCHEDULE
RAM RECOVERY PER MIL-E-5008 B

NOTE - Reference $N_1/\sqrt{\theta_{t2}}$ = 5910 RPM



DATE 10-15-64

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CURVE NO T-1688
SHEET 40

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

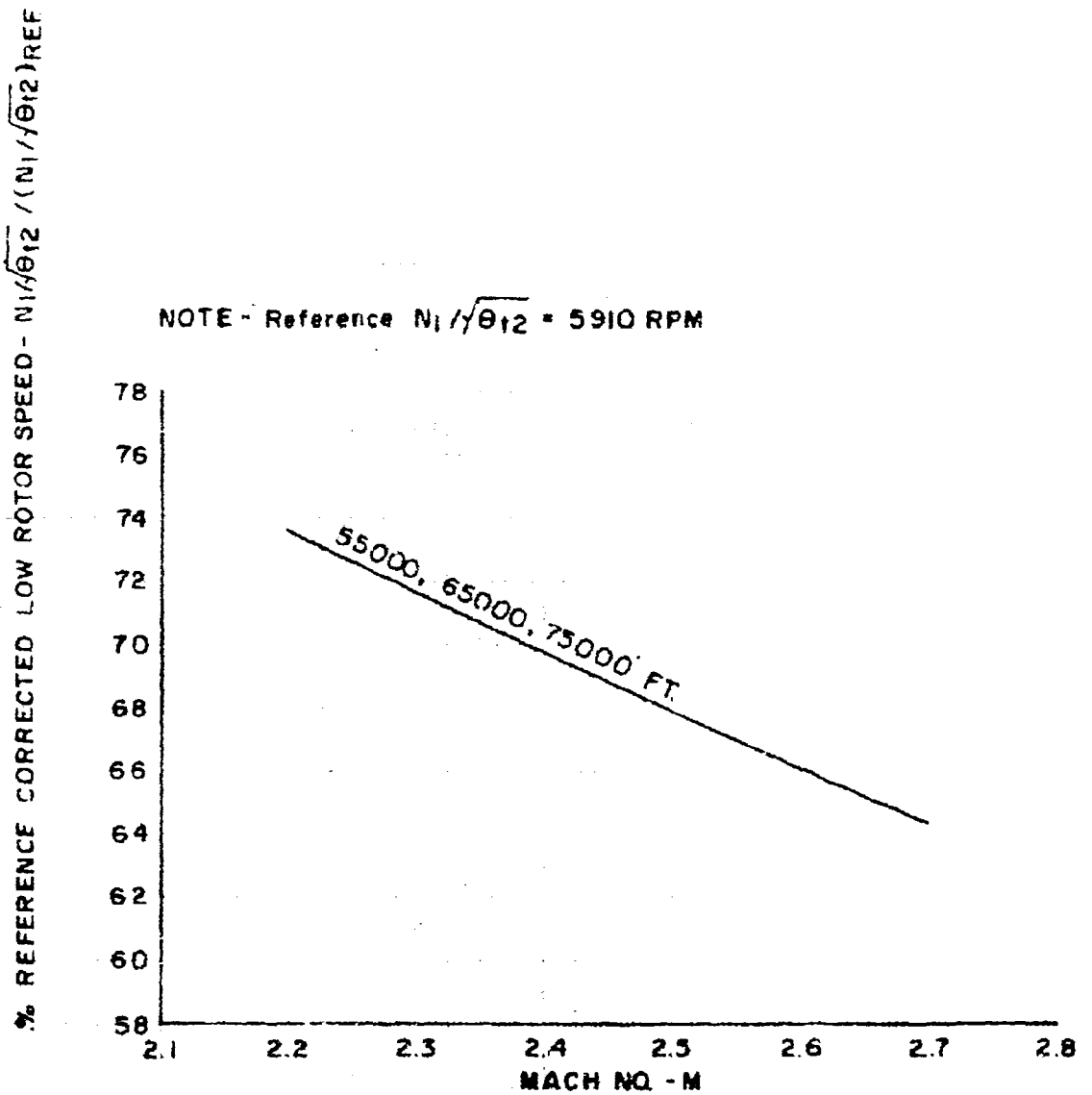
CONFIDENTIAL

Pratt & Whitney Aircraft UA

ENGINE MODEL STF 219B
ESTIMATED LOW ROTOR SPEED

MAXIMUM CRUISE
U. S. STANDARD ATMOSPHERE - 1962 (GEOM.)

BASE AIRFLOW SCHEDULE
RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

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CURVE NO. T-1688
SHEET 41

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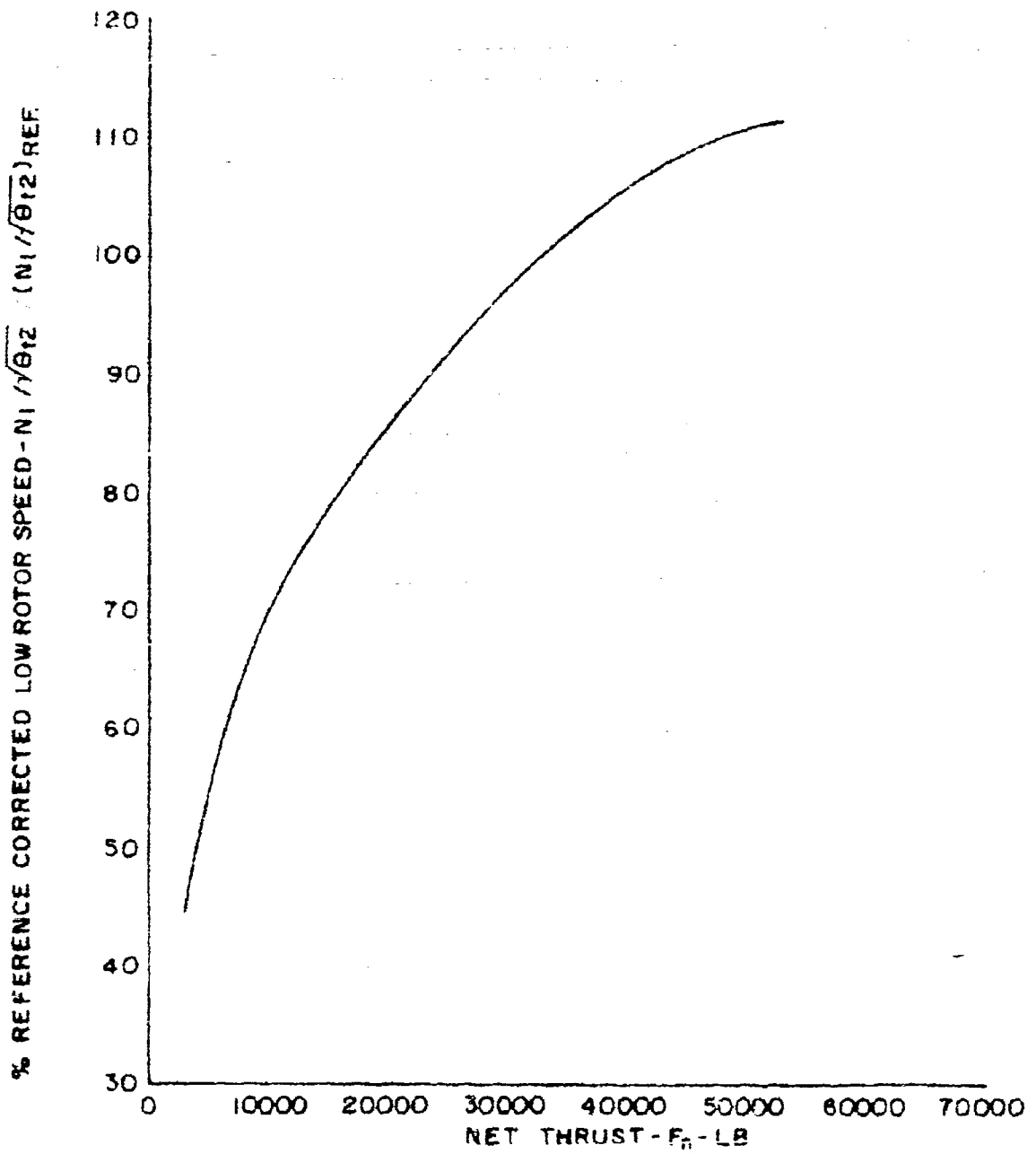
DOD DIR 5200.10

Pratt & Whitney Aircraft

ENGINE MODEL STF 219B
ESTIMATED LOW ROTOR SPEED
SUBSONIC PART POWER

U. S. STANDARD ATMOSPHERE -1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B

NOTE - Reference $N_1/\sqrt{\theta_{t2}}$ = 5910 RPM



DATE 10-15-64

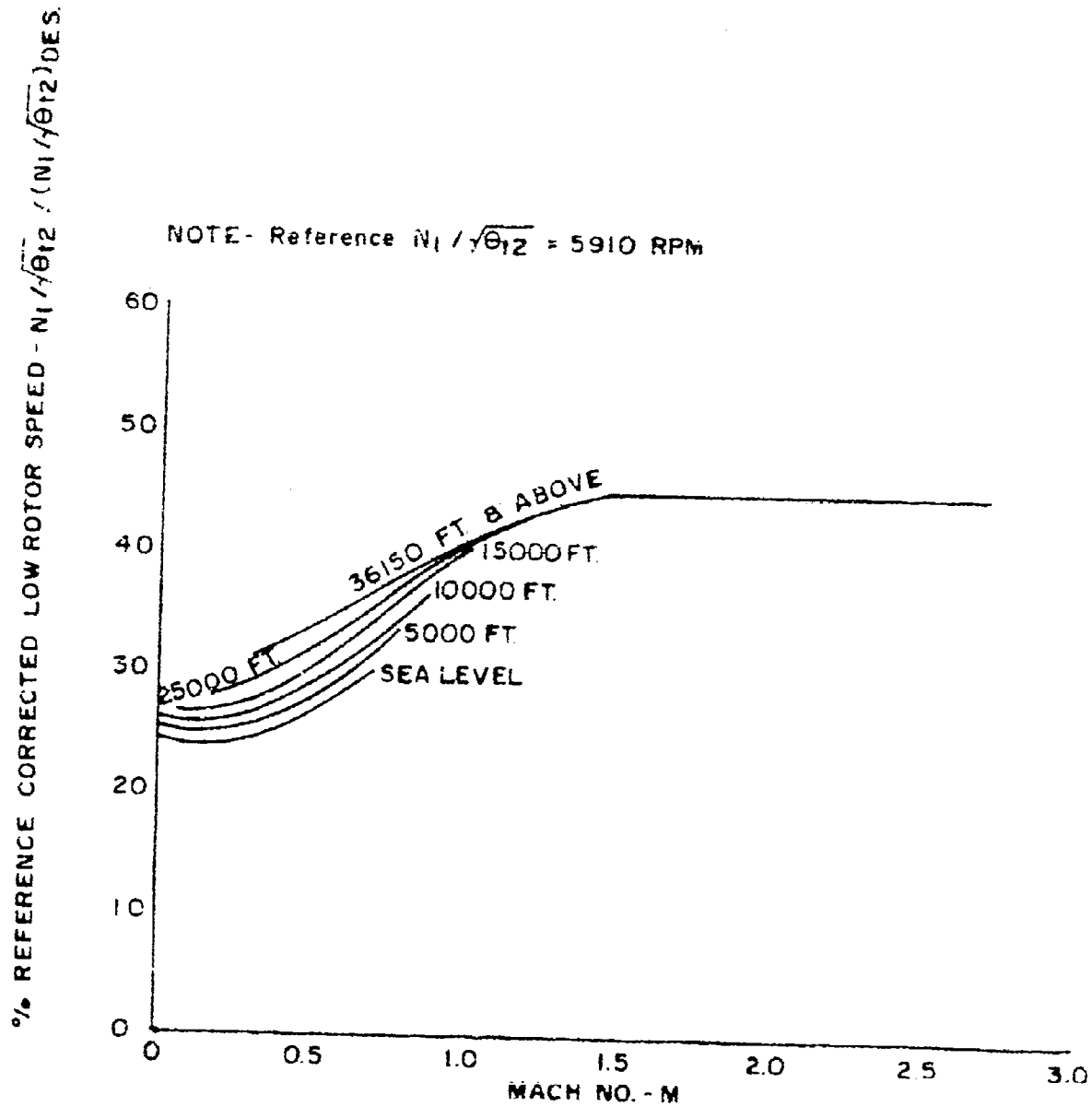
CURVE NO. T-1688
SHEET 42

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft UA

ENGINE MODEL STF 219B
ESTIMATED LOW ROTOR SPEED
IDLE

U.S. STANDARD ATMOSPHERE-1962 (GEOM) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CURVE NO. T-1688
SHEET 43

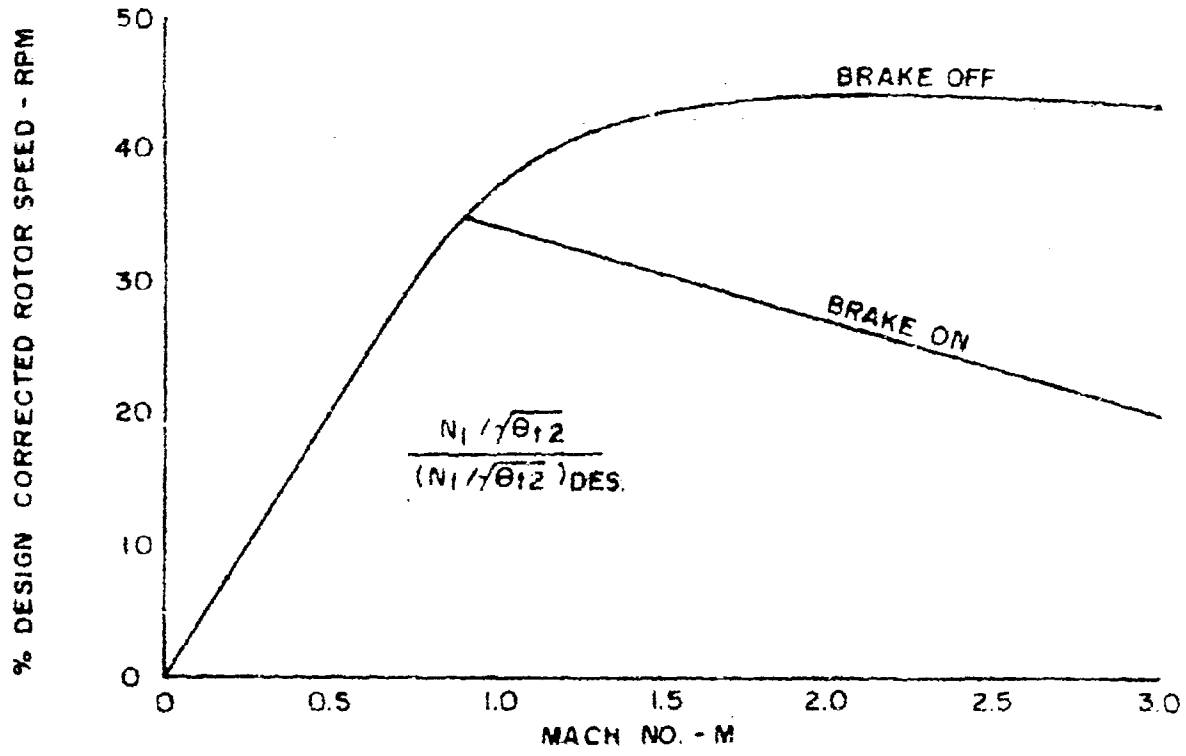
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft UA

ENGINE MODEL STF 219B
ESTIMATED CORRECTED WINDMILLING ROTOR SPEED

U. S. STANDARD ATMOSPHERE-1962 (GEOM.) RAM RECOVERY PER MIL-E-5008B

NOTE- Design corrected low rotor speed - $N_1/\sqrt{\theta_{12}}$ = 5910 RPM



DATE 10-15-64

CURVE NO. T-1688
SHEET 44

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DOD DIR 5200.10

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Pratt & Whitney Aircraft

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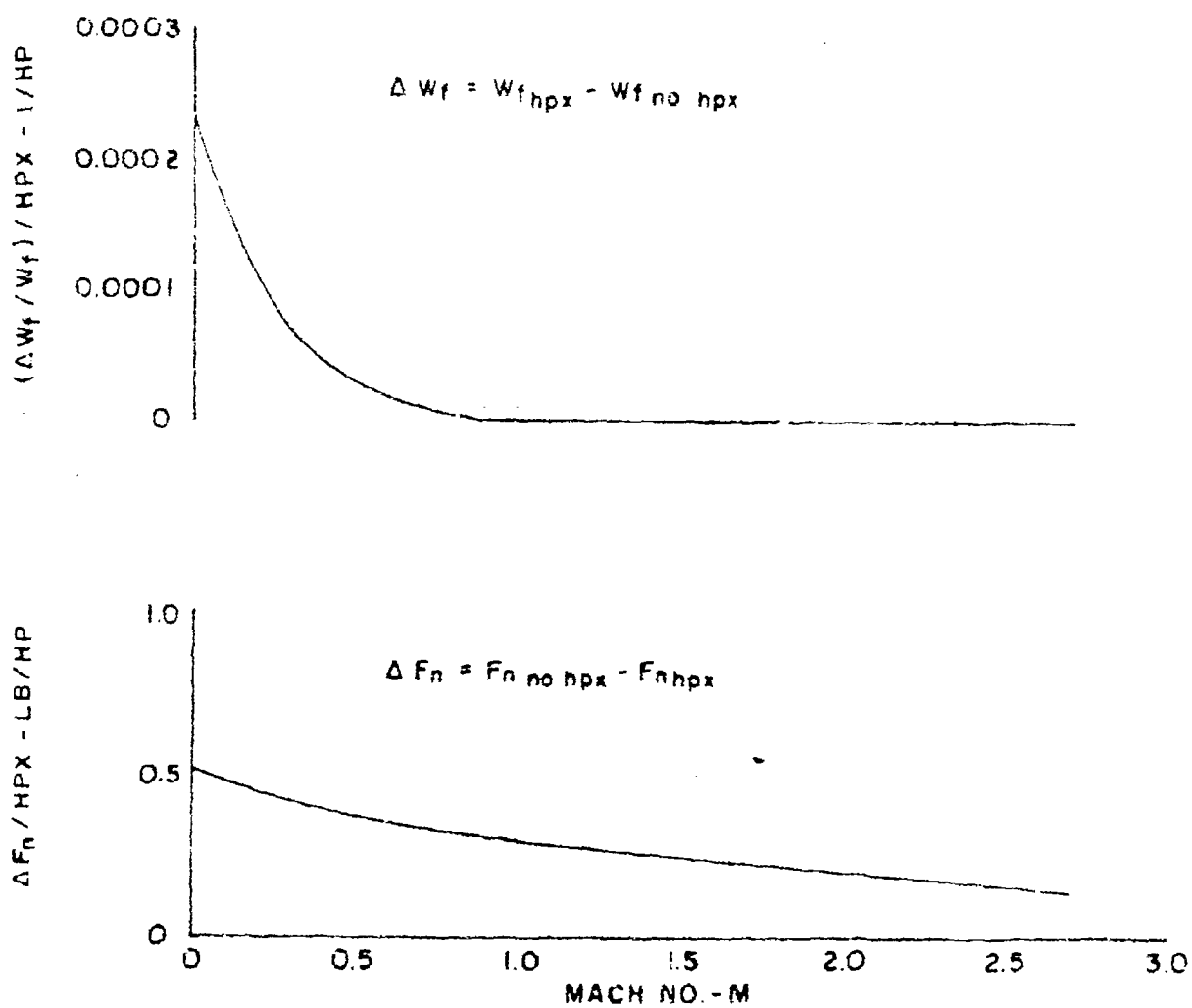
A

ENGINE MODEL STF 219B
ESTIMATED THRUST & FUEL FLOW CORRECTIONS DUE TO POWER EXTRACTIONS AT IDLE

U.S. STANDARD ATMOSPHERE-1962(GEOM.) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

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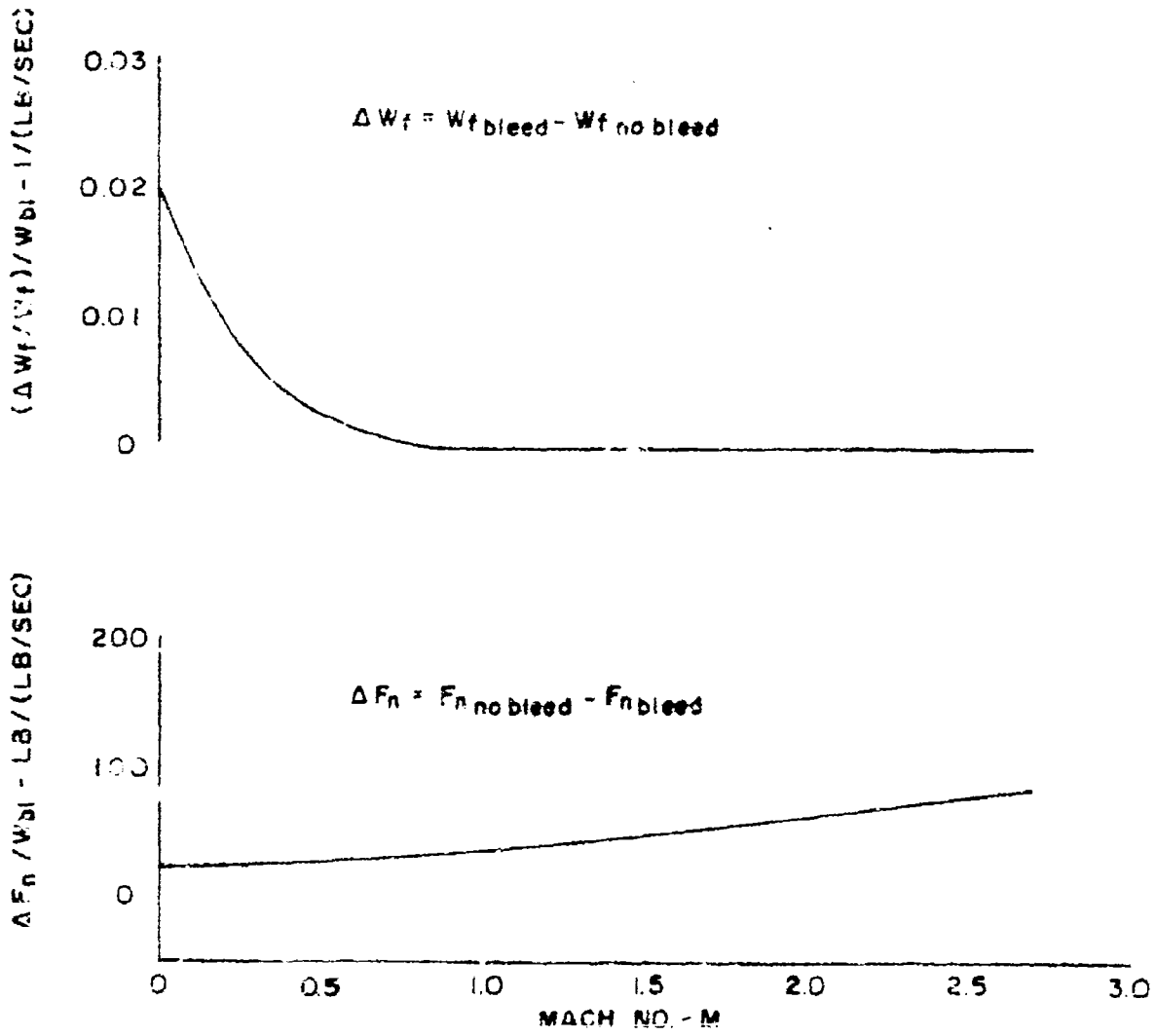
CURVE NO. T-1688
CURVE 45

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft U A

ENGINE MODEL STF 2198
ESTIMATED THRUST & FUEL FLOW CORRECTIONS DUE TO FAN DUCT AIRBLEED AT IDLE

U.S. STANDARD ATMOSPHERE - 1962 (GEOM.) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CURVE NO. T-1688
SHEET 46

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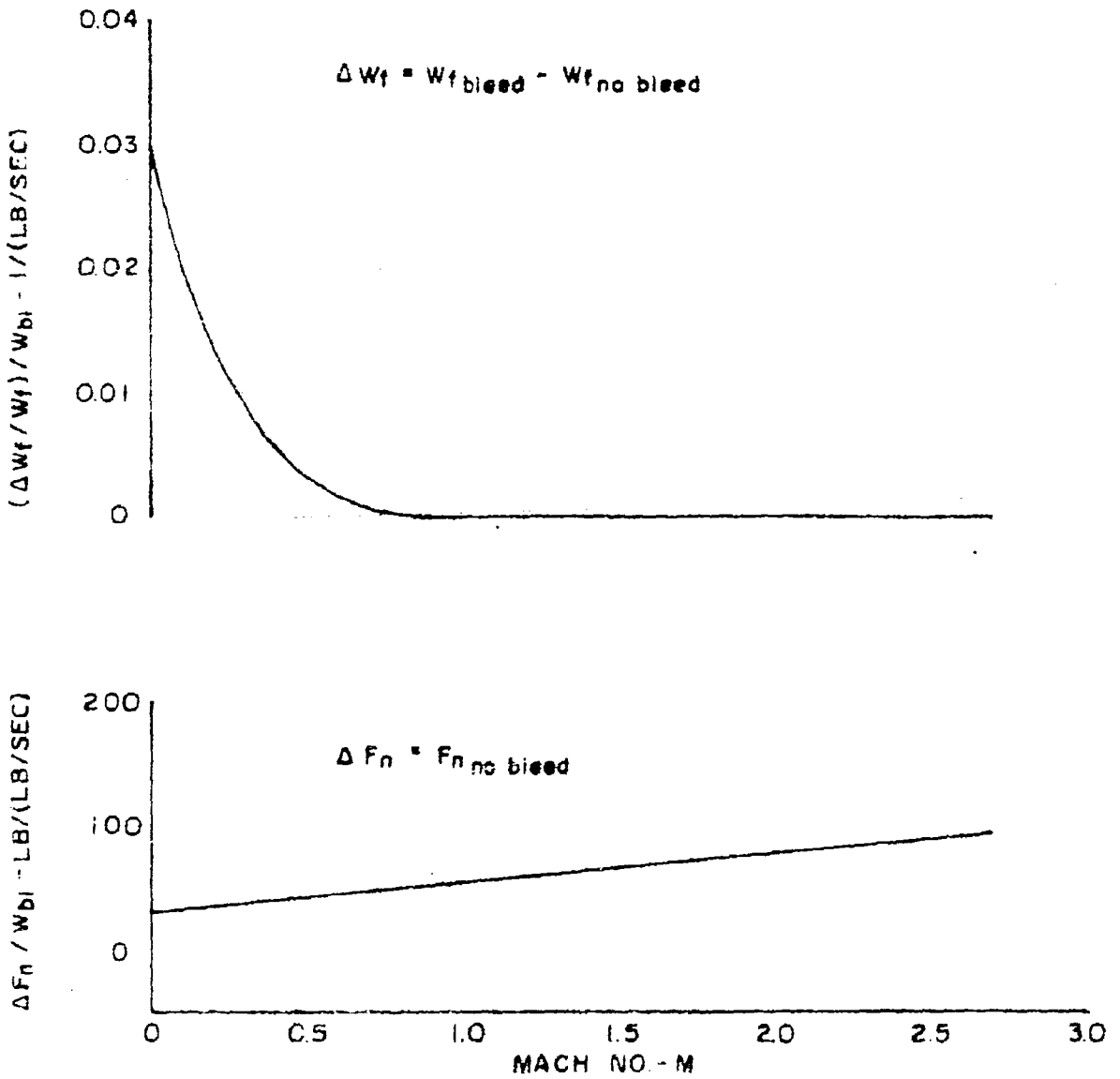
CONFIDENTIAL

Pratt & Whitney Aircraft U A

ENGINE MODEL STF 219B

ESTIMATED THRUST & FUEL FLOW CORRECTIONS DUE TO HIGH PRESSURE AIRBLEED AT IDLE

U.S. STANDARD ATMOSPHERE - 1962 (GEOM.) RAM RECOVERY PER MIL-E-5008B



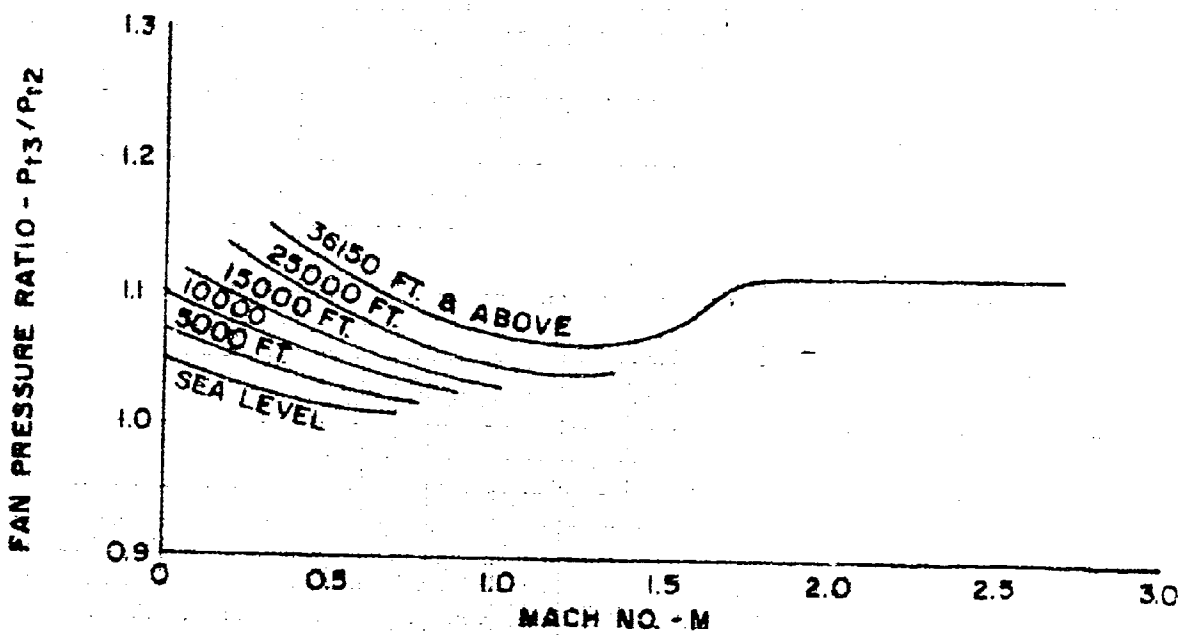
DATE 10-15-64 CONFIDENTIAL CURVE NO. T-1688
SHEET 47

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft — UA

ENGINE MODEL STF 219 B
ESTIMATED FAN DUCT BLEED SYSTEM PRESSURE RATIO
AT IDLE
ZERO BLEED FLOW

U.S. STANDARD ATMOSPHERE - 1962 (GEOM.) RAM RECOVERY PER MIL-E-5008-B



DATE 10-15-64

CURVE NO. T-1688
SHEET 48

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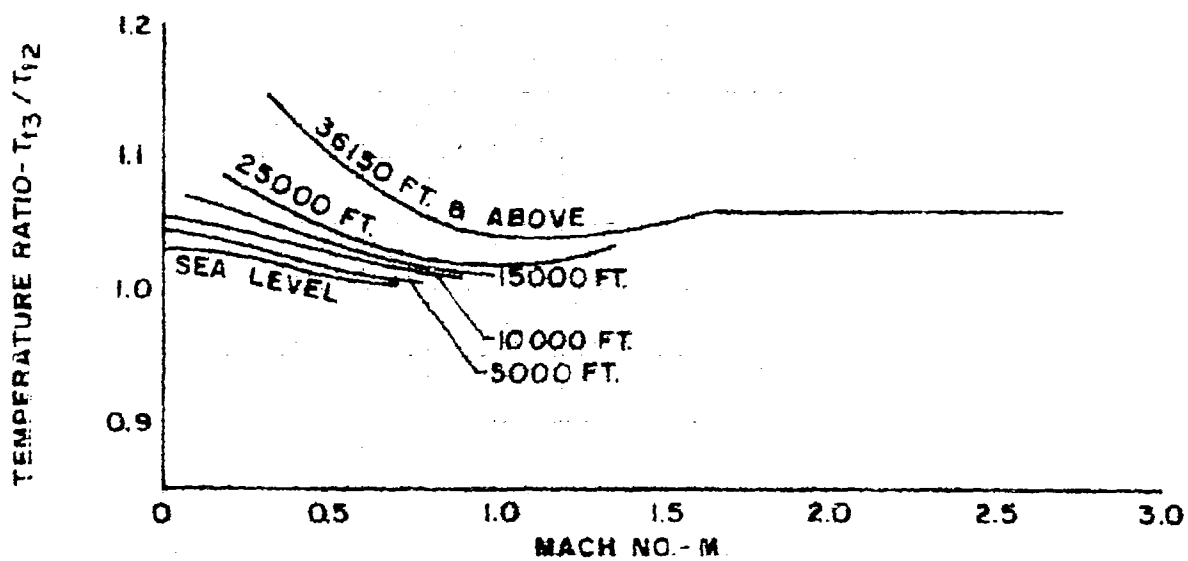
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION UA

ENGINE MODEL STF 219B
ESTIMATED FAN DUCT BLEED SYSTEM TEMPERATURE RATIO
AT IDLE
ZERO BLEED FLOW
U.S. STANDARD ATMOSPHERE-1962(GEOM.) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64 CONFIDENTIAL CURVE NO. T-1688
SHEET 49

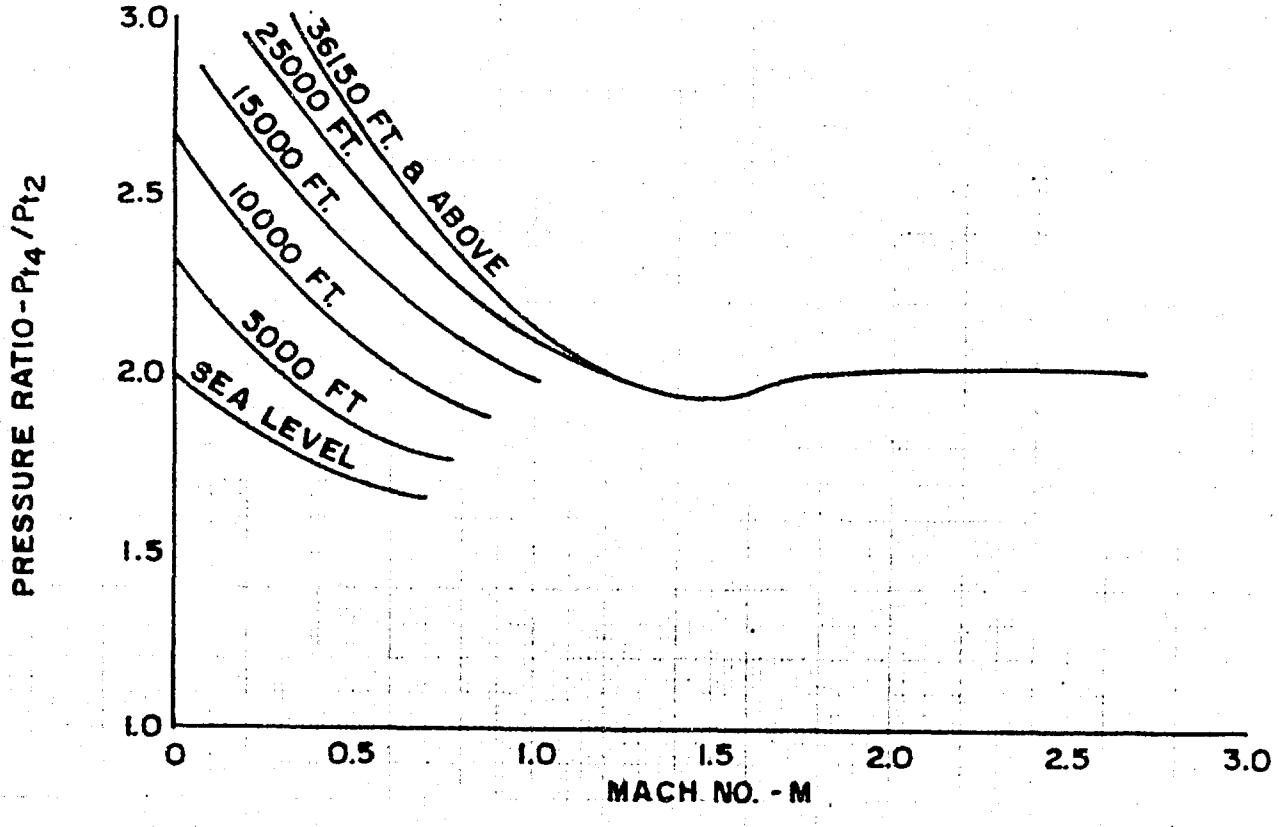
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

CONFIDENTIAL

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED HIGH PRESSURE BLEED SYSTEM PRESSURE RATIO
AT IDLE
ZERO BLEED FLOW

U.S. STANDARD ATMOSPHERE-1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B



DATE 10-15-64

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CURVE NO. T-1688
SHEET 50

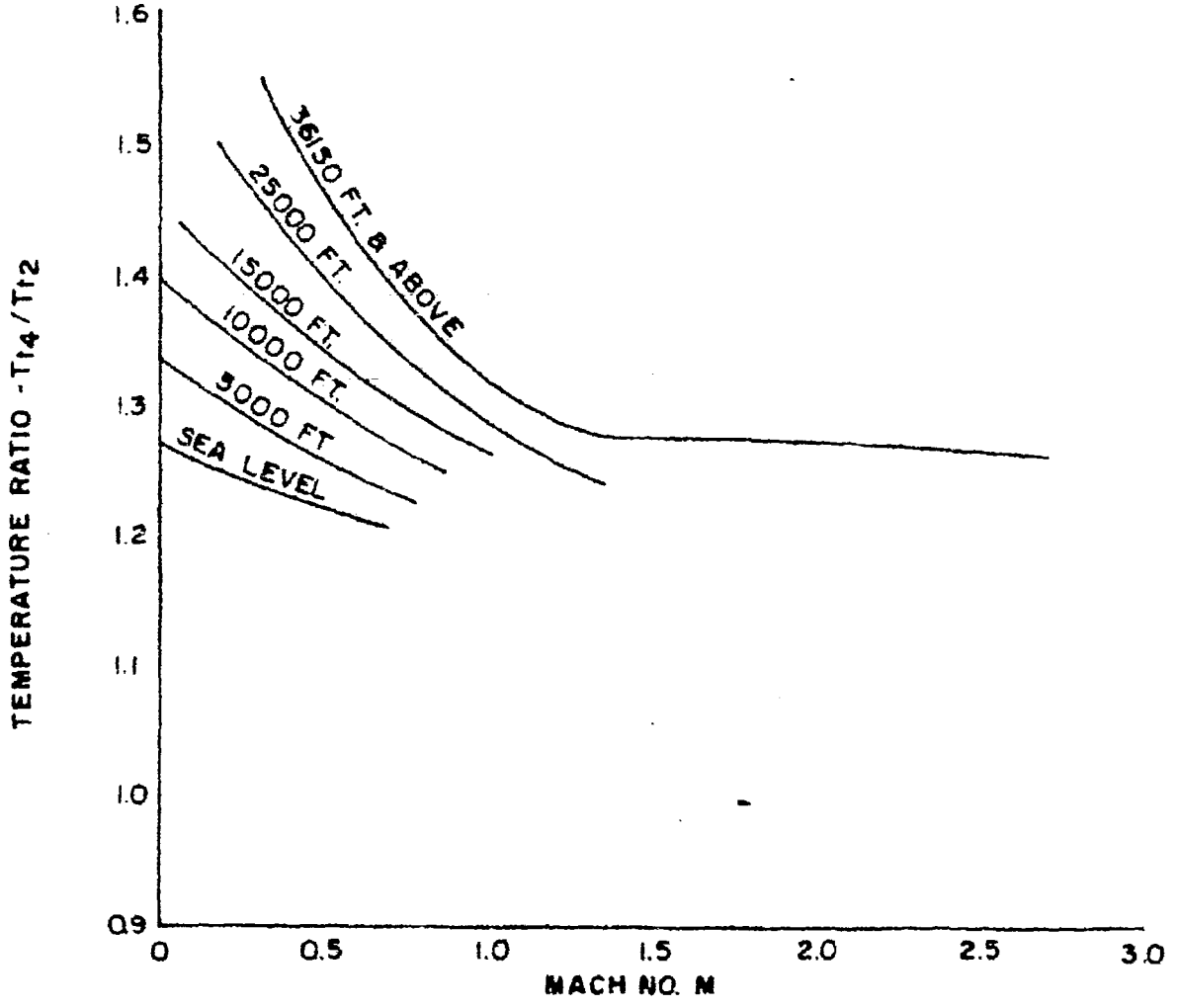
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B

ESTIMATED HIGH PRESSURE BLEED SYSTEM TEMPERATURE RATIO AT IDLE ZERO BLEED FLOW

U.S. STANDARD ATMOSPHERE-1962 (GEOM.) RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

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CURVE NO. T-1688
SHEET 51

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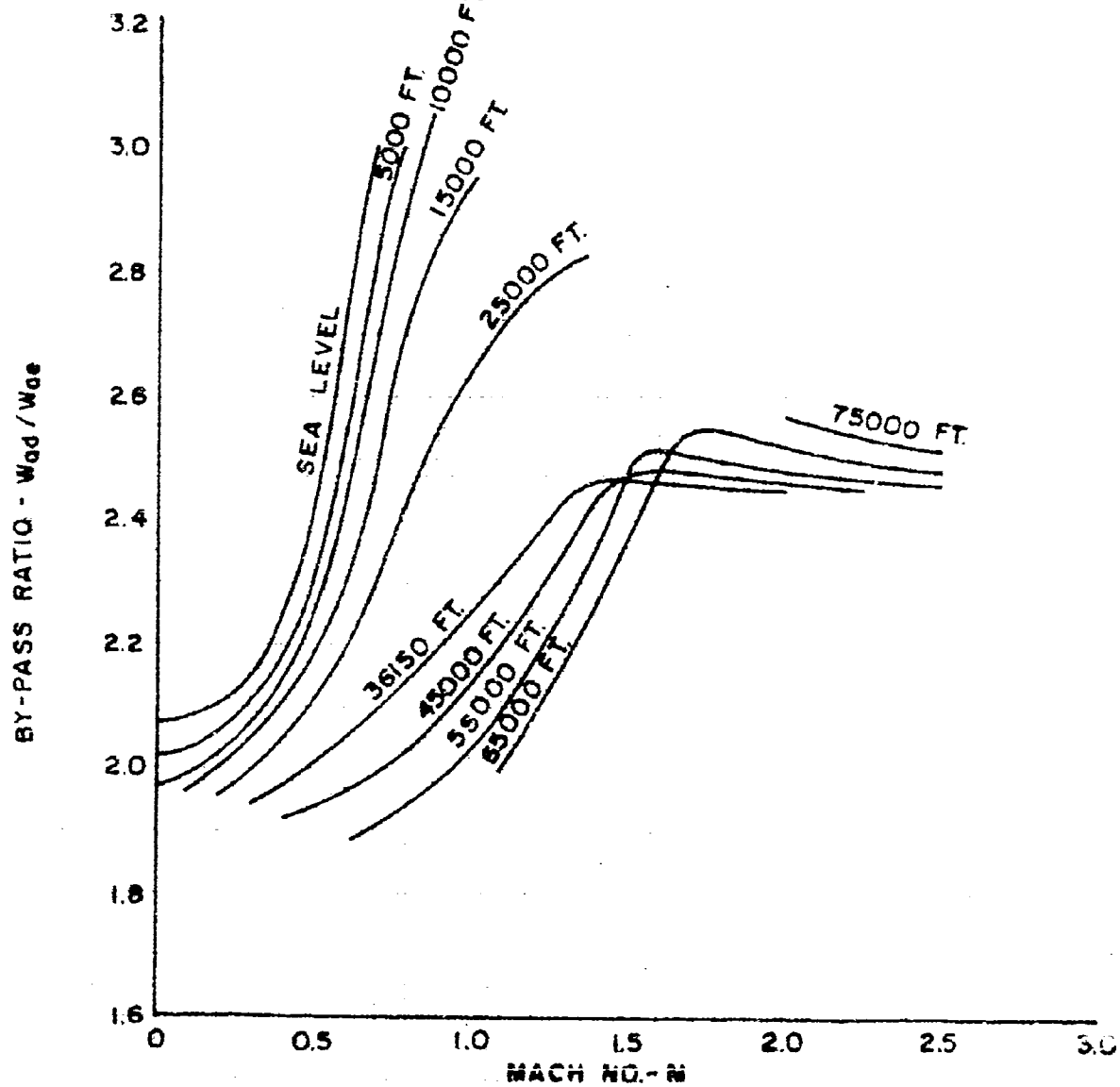
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED BY-PASS RATIO AT IDLE
ZERO BLEED FLOW

U.S. STANDARD ATMOSPHERE - 1962 (GEOM.)

RAM RECOVERY PER MIL-E-5008B



DATE 10-15-64

CURVE NO. T-1688
SHEET 52

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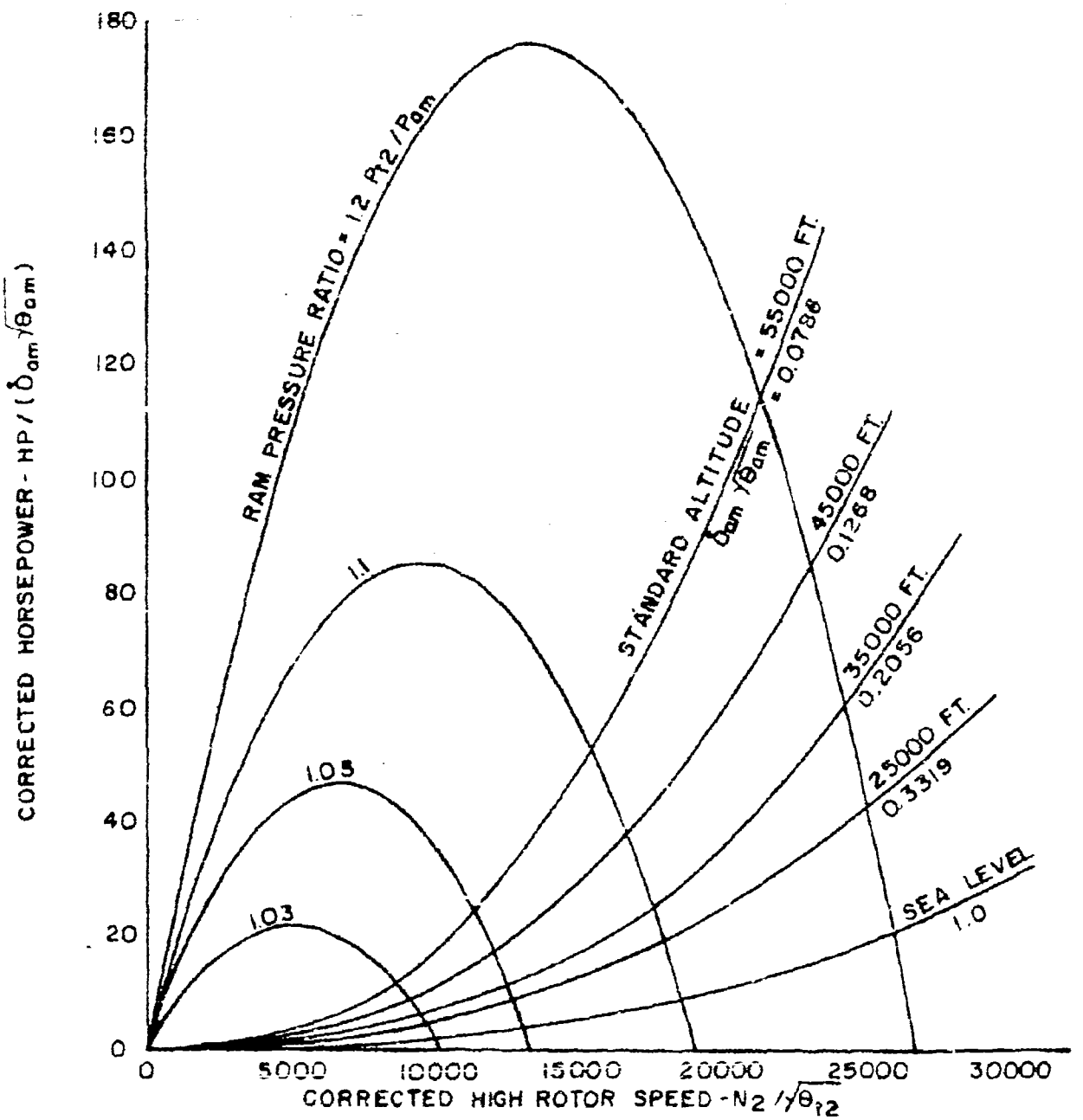
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED POWER AVAILABLE FROM HIGH PRESSURE ROTOR WITH ENGINE WINDMILLING

NOTE - Maximum allowable power extraction = 960 HP



DATE 10-15-64

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CURVE NO. T-1688
SHEET 53A

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

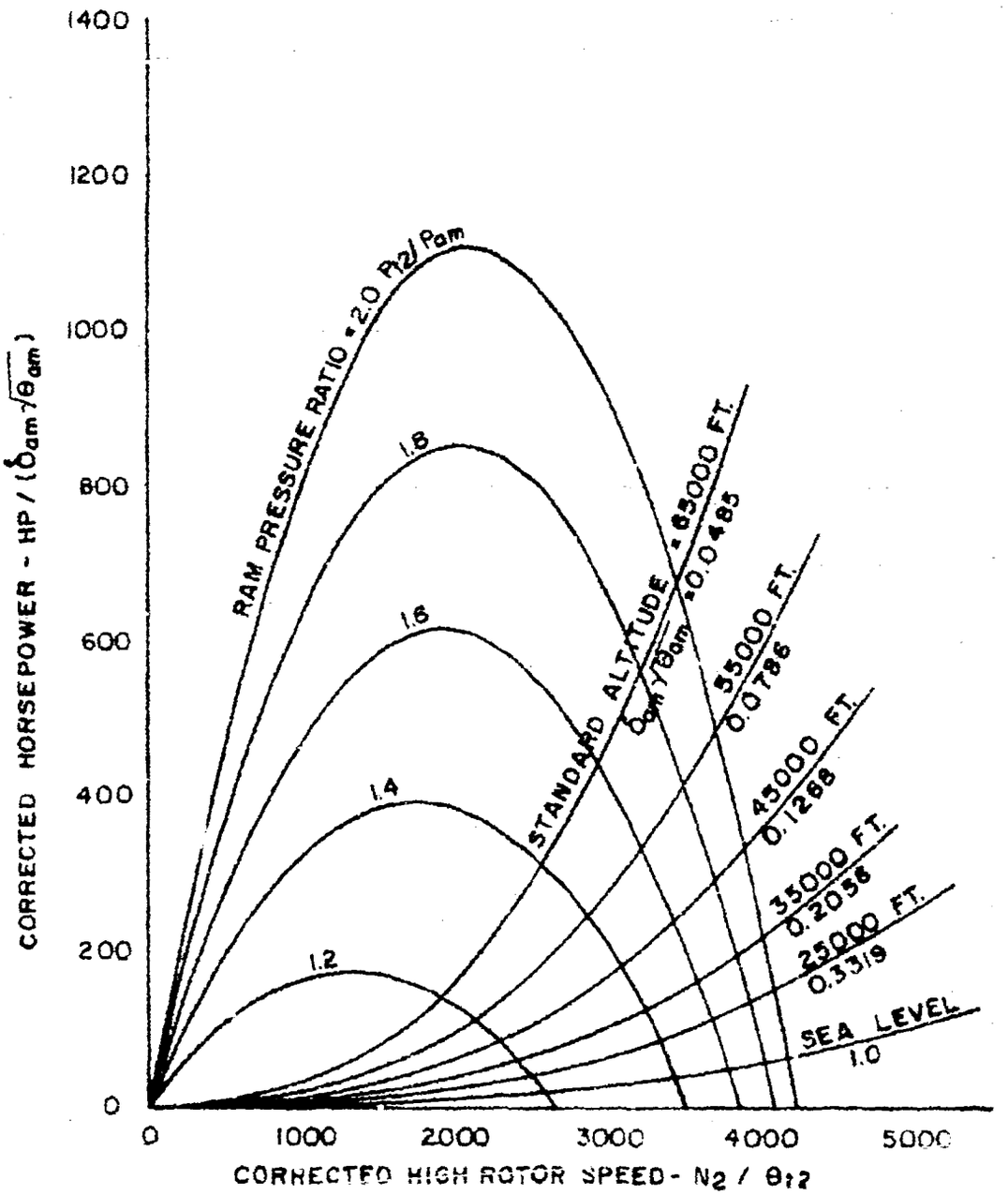
CONFIDENTIAL

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B

ESTIMATED POWER AVAILABLE FROM HIGH PRESSURE ROTOR WITH ENGINE WINDMILLING

NOTE - Maximum allowable power extraction = 960 HP



DATE 10-15-64

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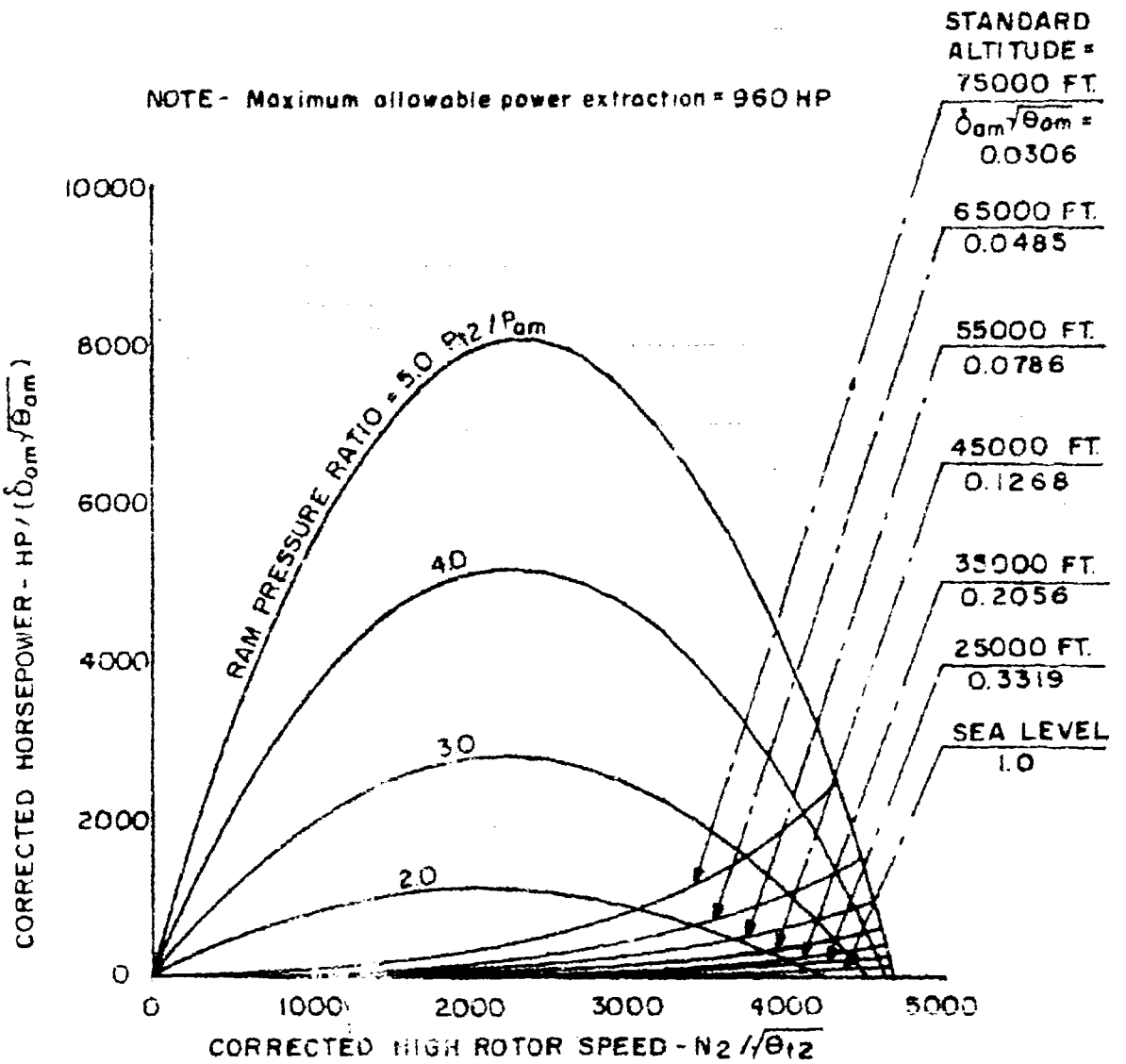
CURVE NO. T-1688
SHEET 53B

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B

ESTIMATED POWER AVAILABLE FROM HIGH PRESSURE ROTOR WITH ENGINE WINDMILLING



DATE 10-15-64

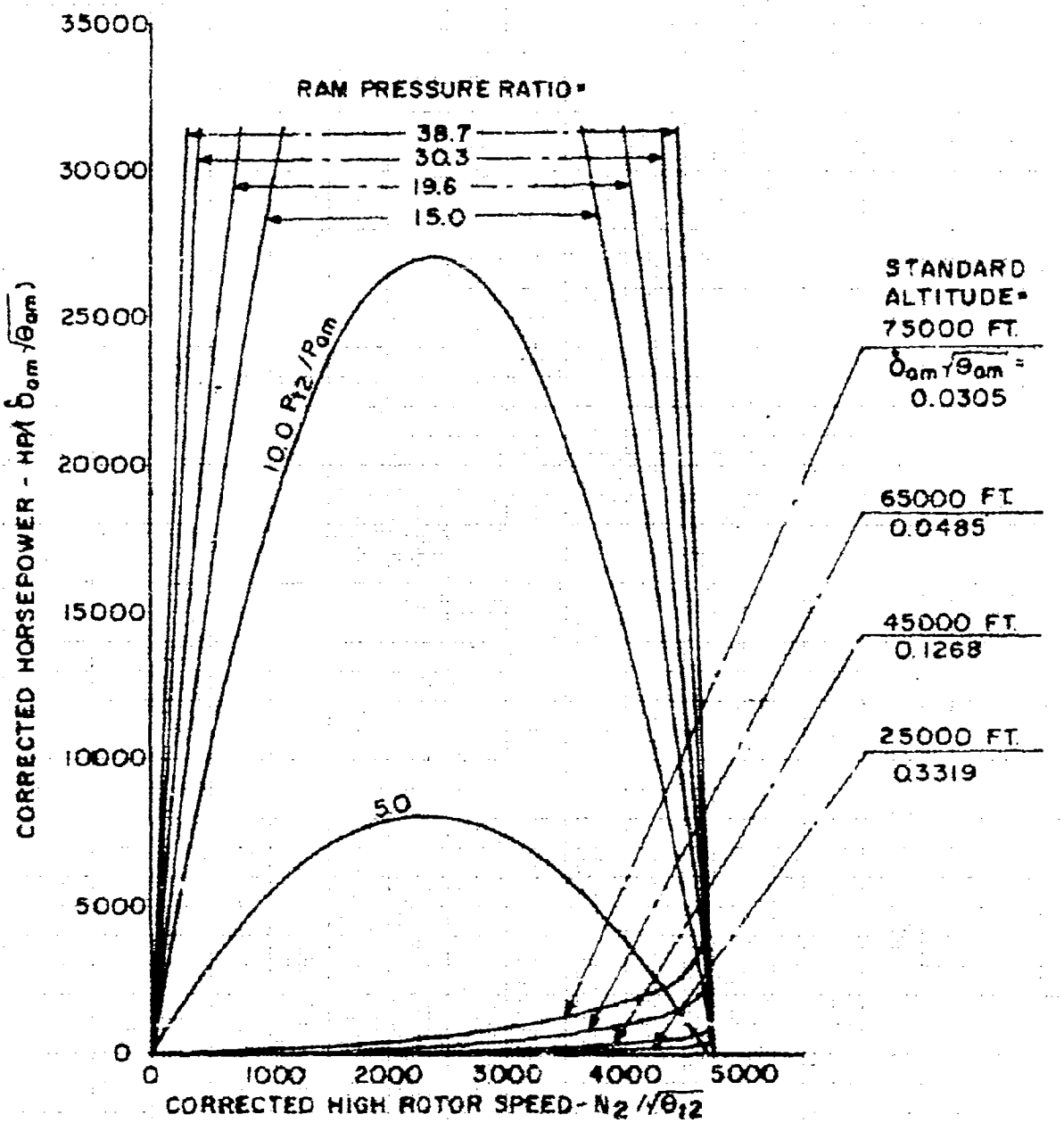
CURVE NO. T-1688
SHEET 53C

DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 2198
ESTIMATED POWER AVAILABLE FROM HIGH PRESSURE ROTOR WITH ENGINE WINDMILLING

NOTE- Maximum allowable power extraction = 960 HP



DATE 10-15-64

CURVE NO. T-1688
SHEET 530

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DOD DIR 5200.10

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Pratt & Whitney Aircraft

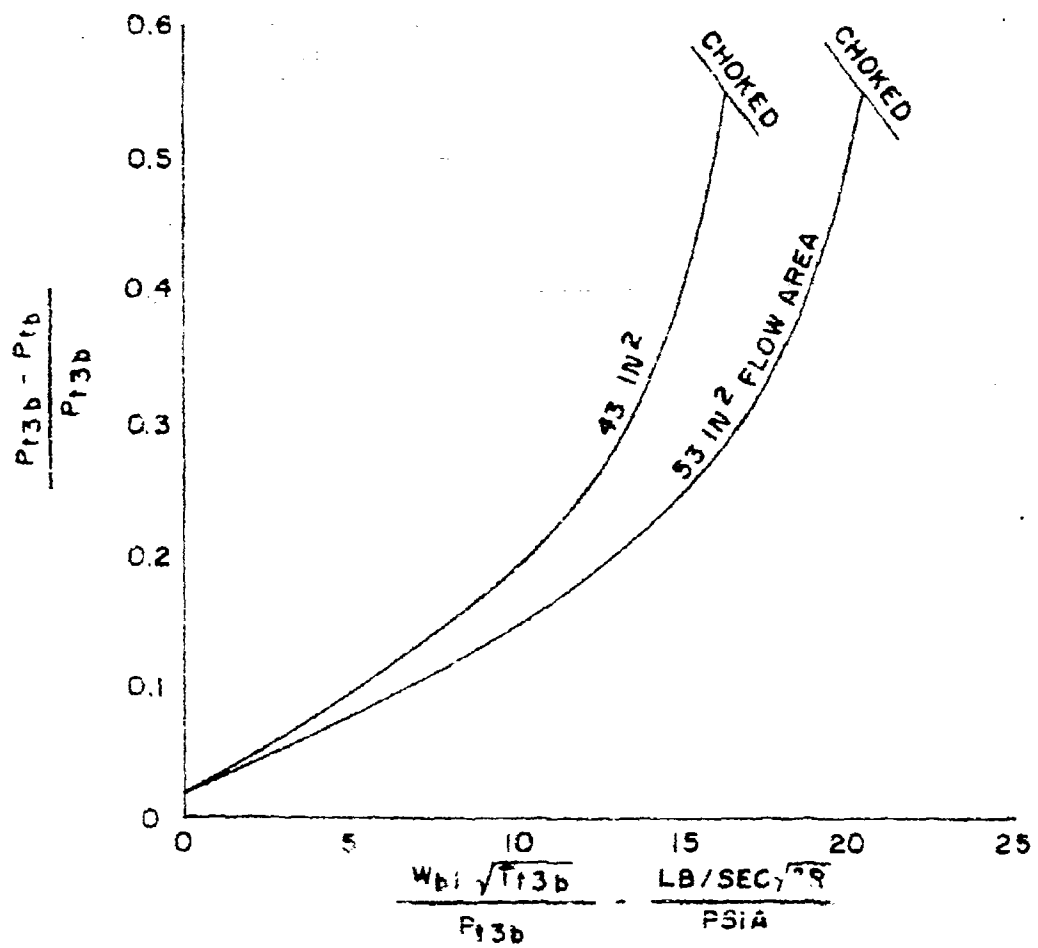
U
A

ENGINE MODEL STF 219B

ESTIMATED PRESSURE DROP THROUGH DUCT BLEED SYSTEM PORTS

U.S. STANDARD ATMOSPHERE - 1962(GEOM.) RAM RECOVERY PER MIL-E-5008B

P_{tb} = Total pressure at bleed ports.
W_{bl} = Bleed airflow - LB/SEC
P_{t3}, T_{t3} = Fan discharge conditions.
$P_{t3b} = P_{t3}$
$T_{t3b} = T_{t3}$



DATE 10-15-64 CONFIDENTIAL CURVE NO T-1688
SHEET 54

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DOD DIR 5200.10

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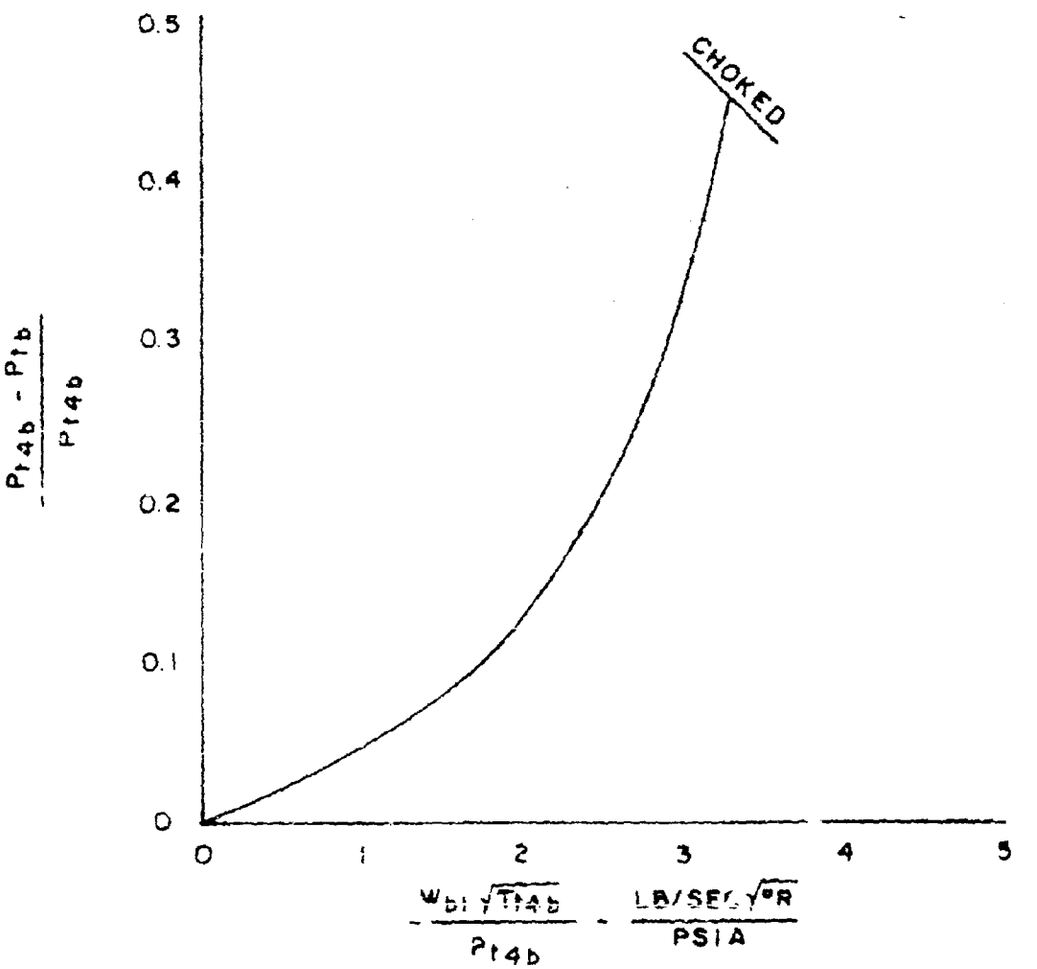
Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B

ESTIMATED PRESSURE DROP THROUGH HIGH PRESSURE SYSTEM PORTS

U.S. STANDARD ATMOSPHERE -1962 (GEOM.) RAM RECOVERY PER MIL-E-5008 B

P_{t4b} = Total pressure for change in engine match due to bleed flow.
P_{tb} = Total pressure at bleed ports.
W_{b1} = Bleed airflow - LB/SEC
$T_{tb} = T_{t4}$ = Total temperature for change in engine match due to bleed flow.



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CURVE NO. T-1688
SHEET 55

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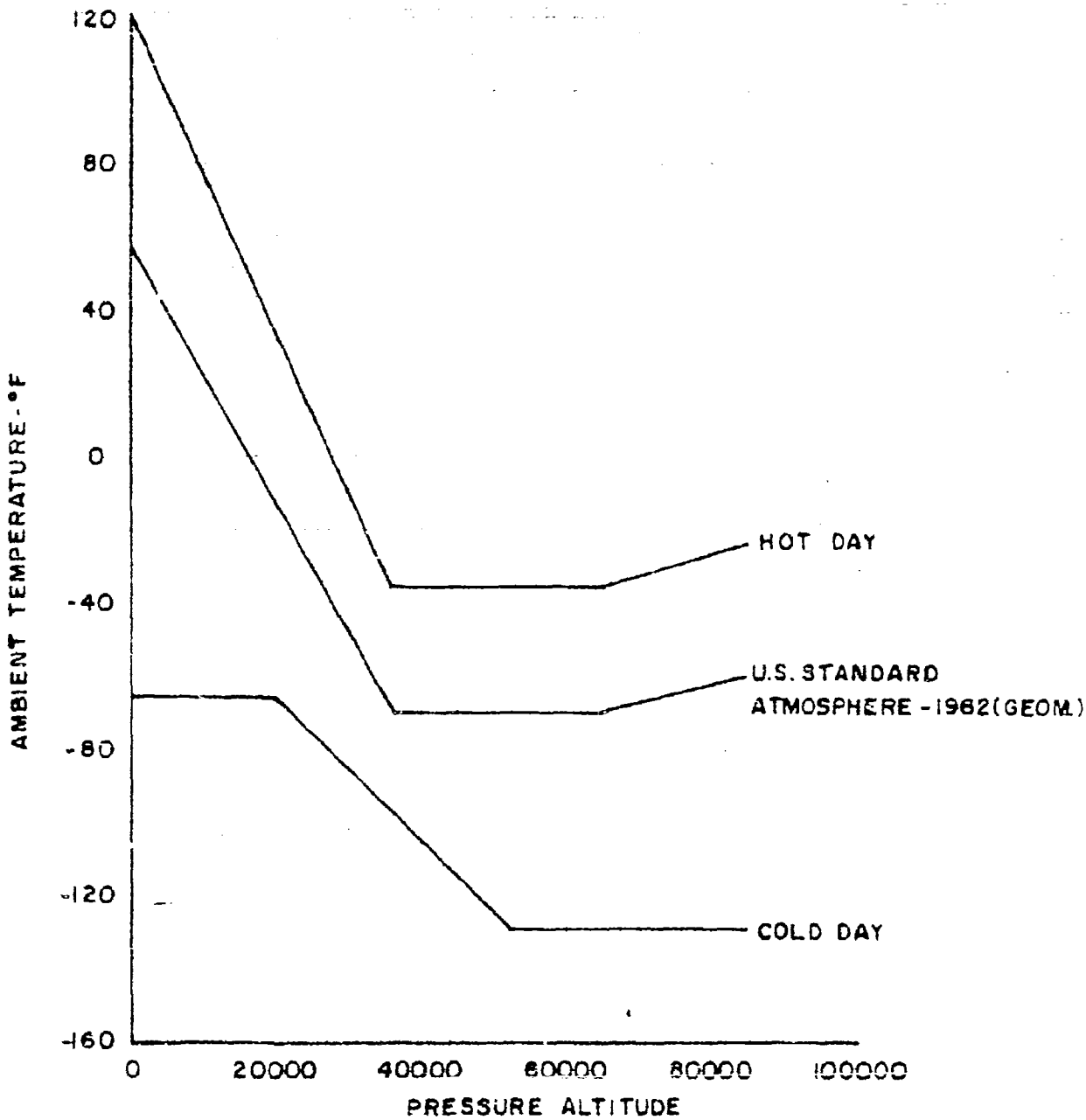
Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B

AMBIENT TEMPERATURE VS. PRESSURE RATIO



DATE 10-15-64

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CURVE NO. T-1688
SHEET 56

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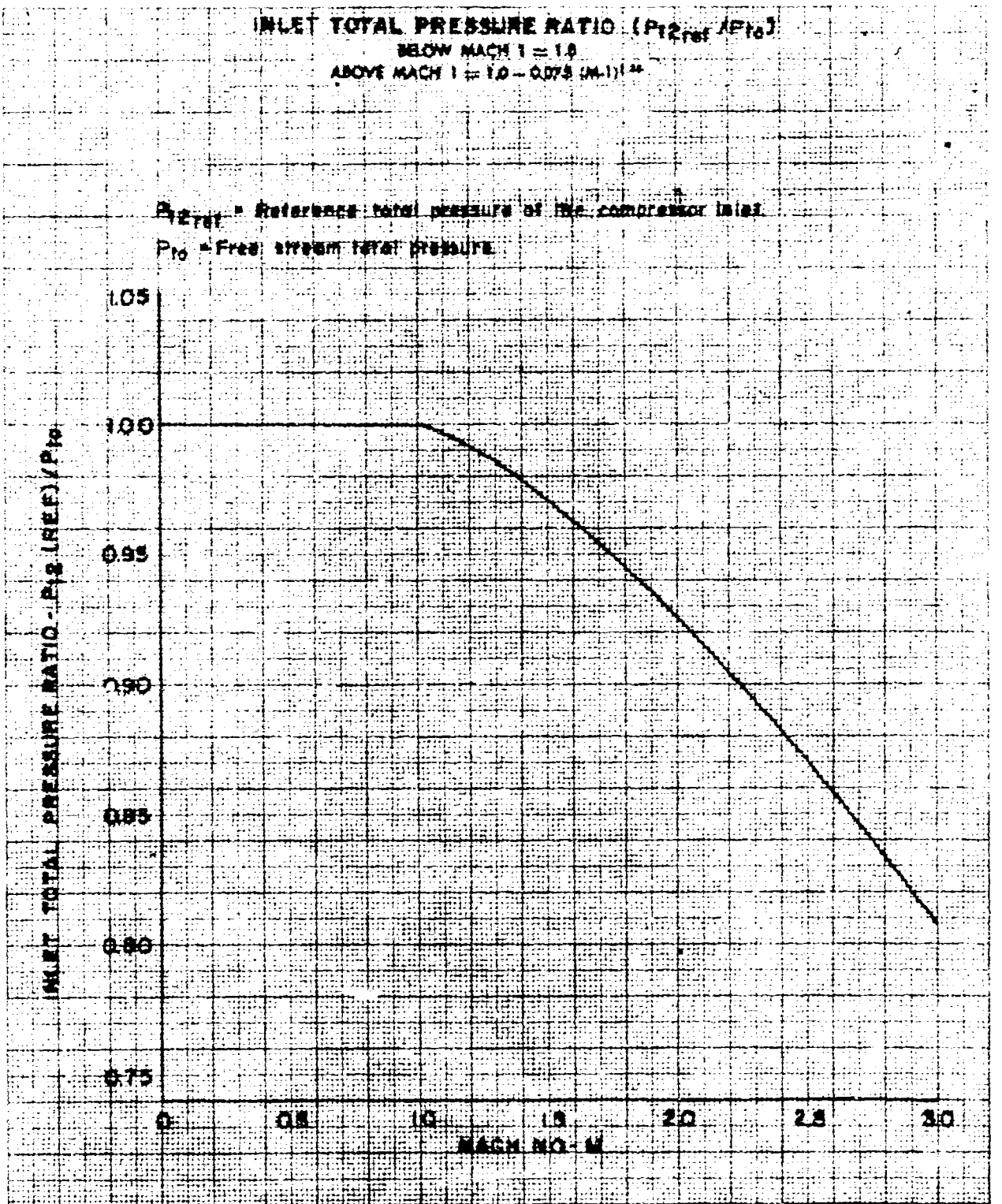
Pratt & Whitney Aircraft — UA

ENGINE MODEL STF 219B

STANDARD INLET TOTAL PRESSURE RATIO PER MIL-E-5008 B



DATE 10-15-64 CONFIDENTIAL CURVE NO. T-1688

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DOD DIR 5200.10

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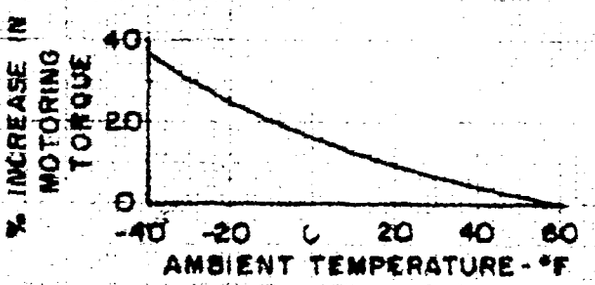
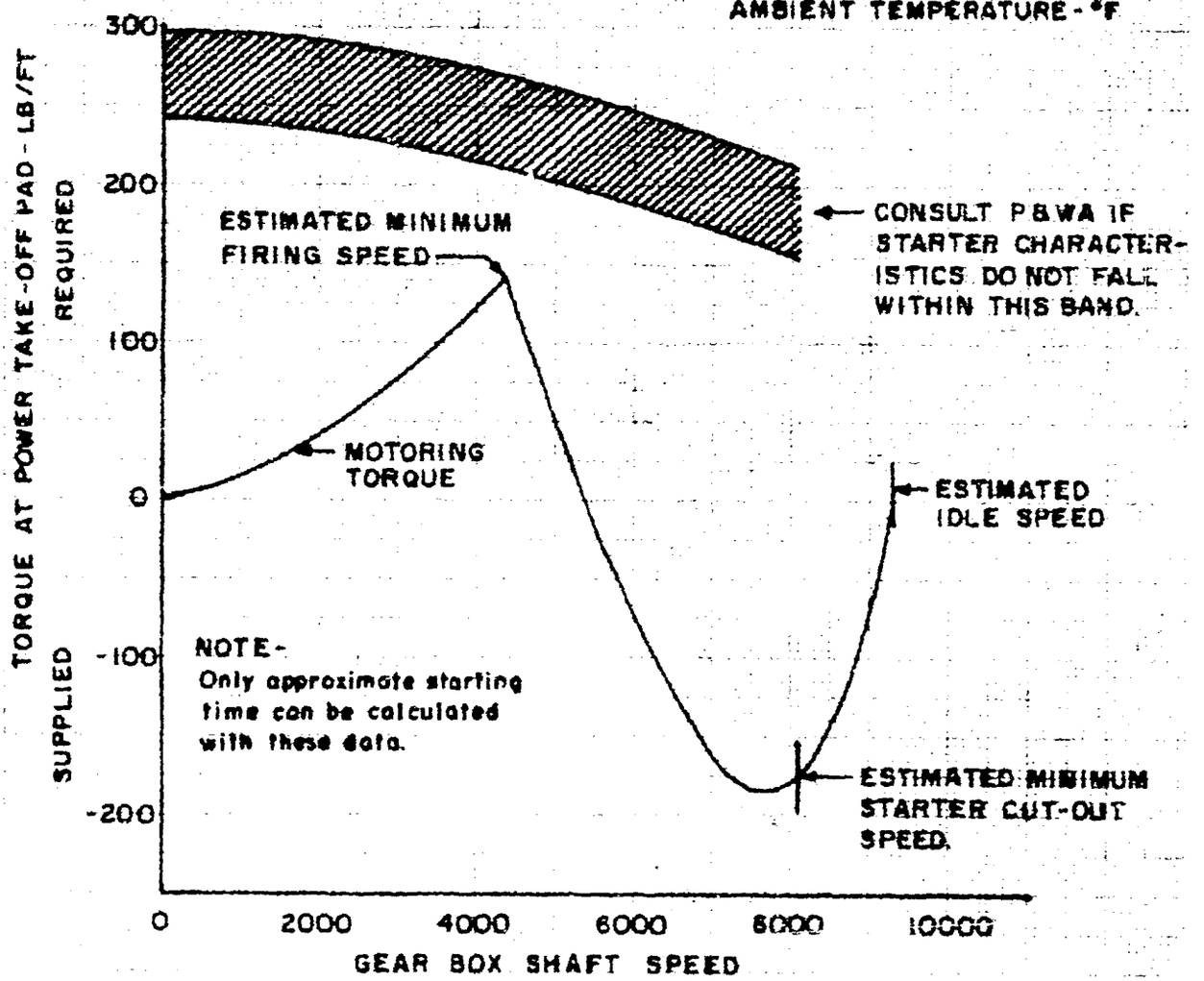
Pratt & Whitney Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B
ESTIMATED STARTING REQUIREMENTS
ZERO POWER EXTRACTIONS

U.S. STANDARD ATMOSPHERE - 1962 (GEOM.) SEA LEVEL STATIC CONDITIONS

NOTE-
Gear ratio = 2.32
(Speed of power T.O. pad = 2.32 engine rotor speed.)
Equivalent mass polar moment of inertia at power T.O. pad = 3.56 slug ft^2



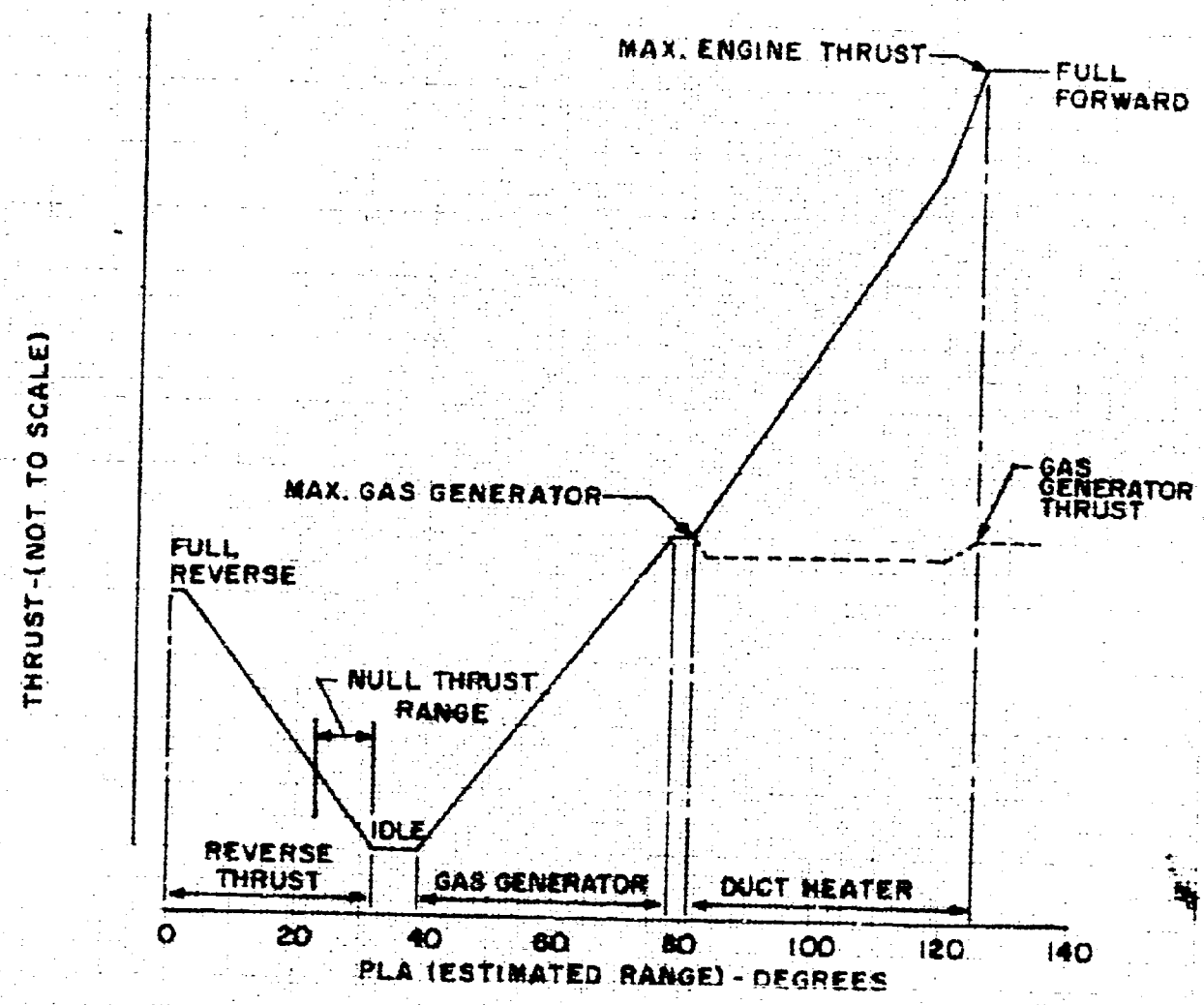


DATE 10-15-64 CONFIDENTIAL CURVE NO. T-1688
SHEET 58

Pratt & Whitney Aircraft — DIVISION OF UNITED AIRCRAFT CORPORATION

ENGINE MODEL STF 219B

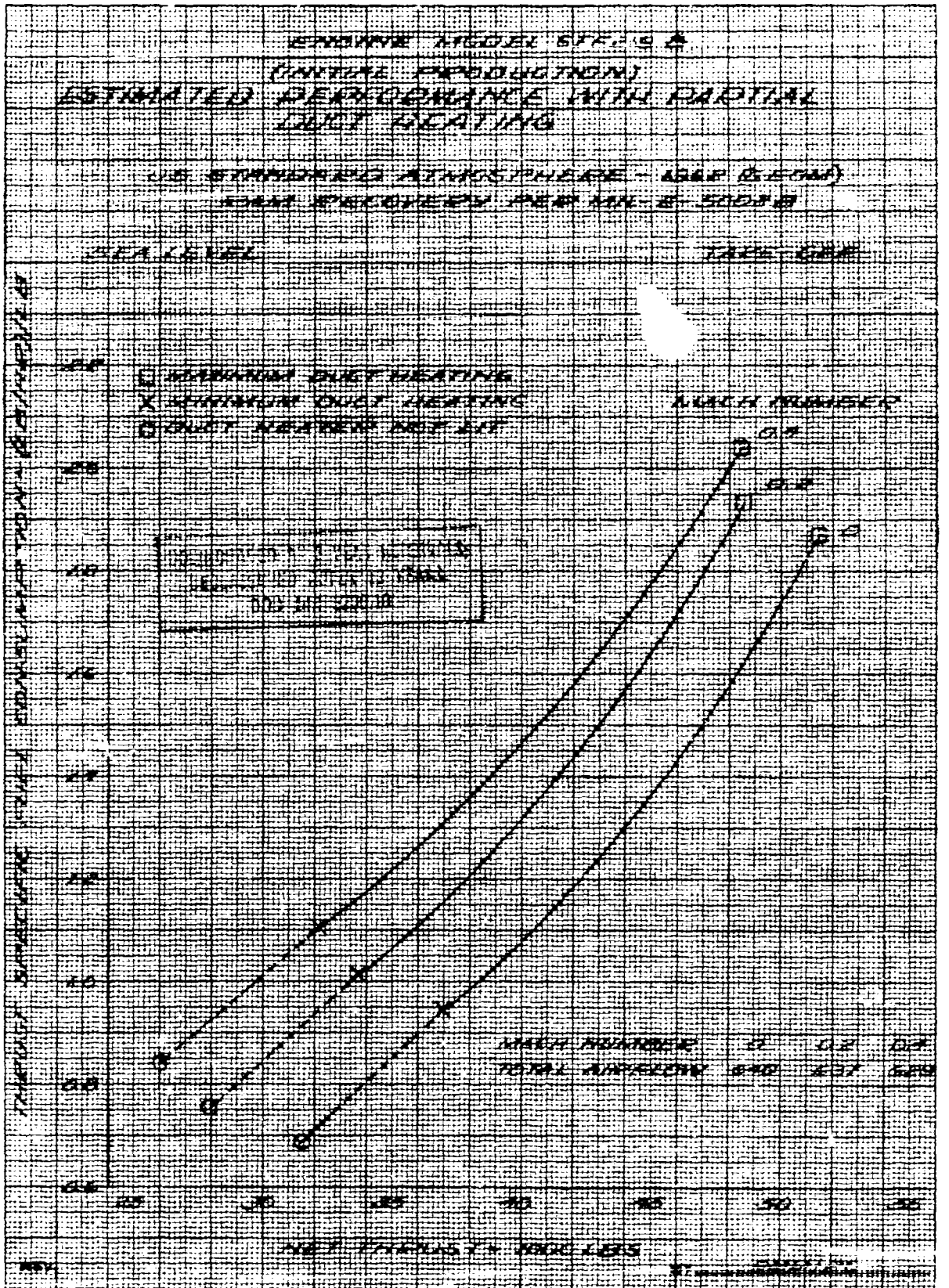
POWER LEVER OPERATION
(FUNCTION REPRESENTATION)



DATE 10-15-64

CURVE NO. T-1688
SHEET 59

CONFIDENTIAL



DATE 10-21-64

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CURVE NO. T-1688

SHEET 60

PWA FORM-3407A 10-58

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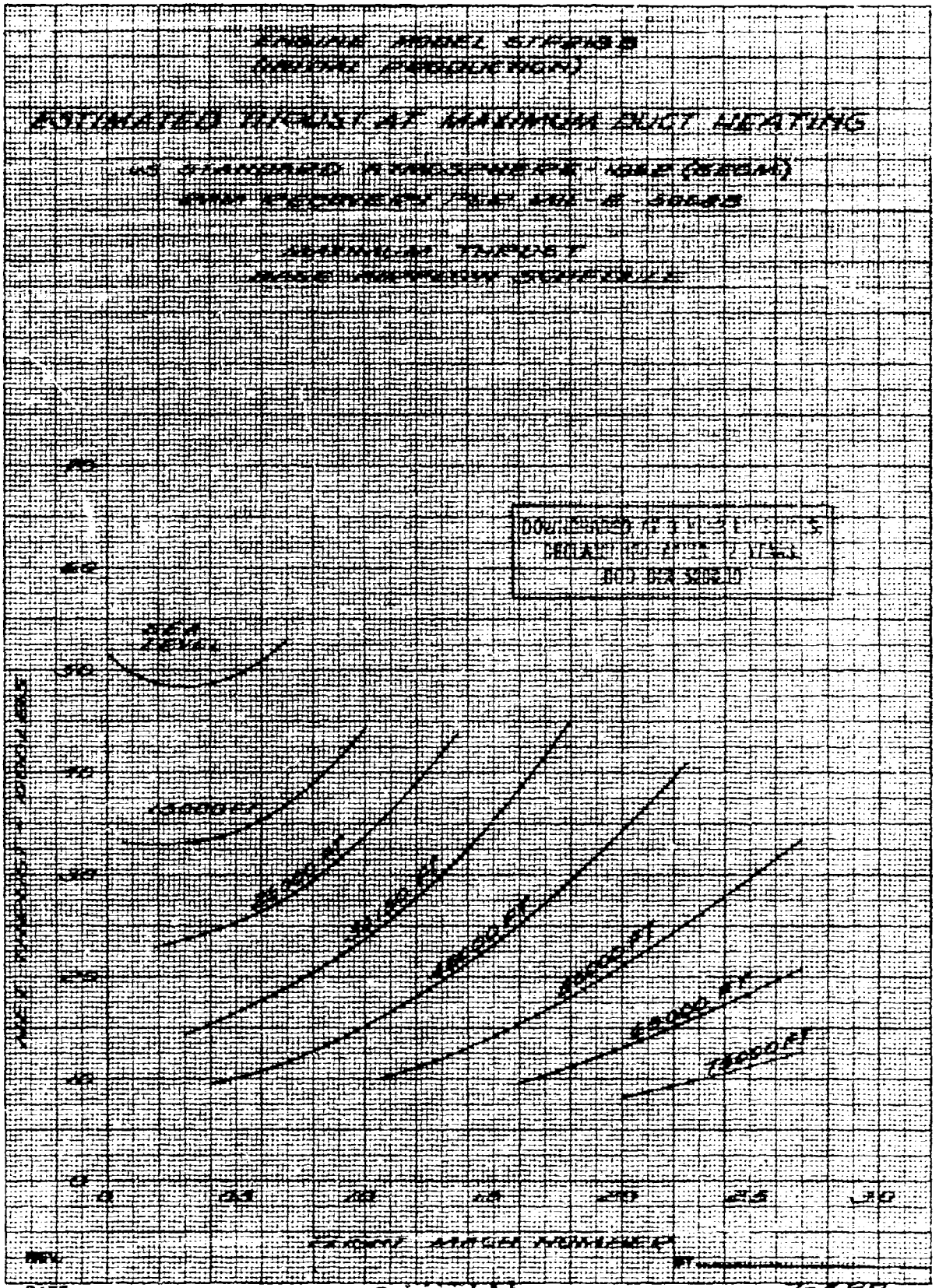


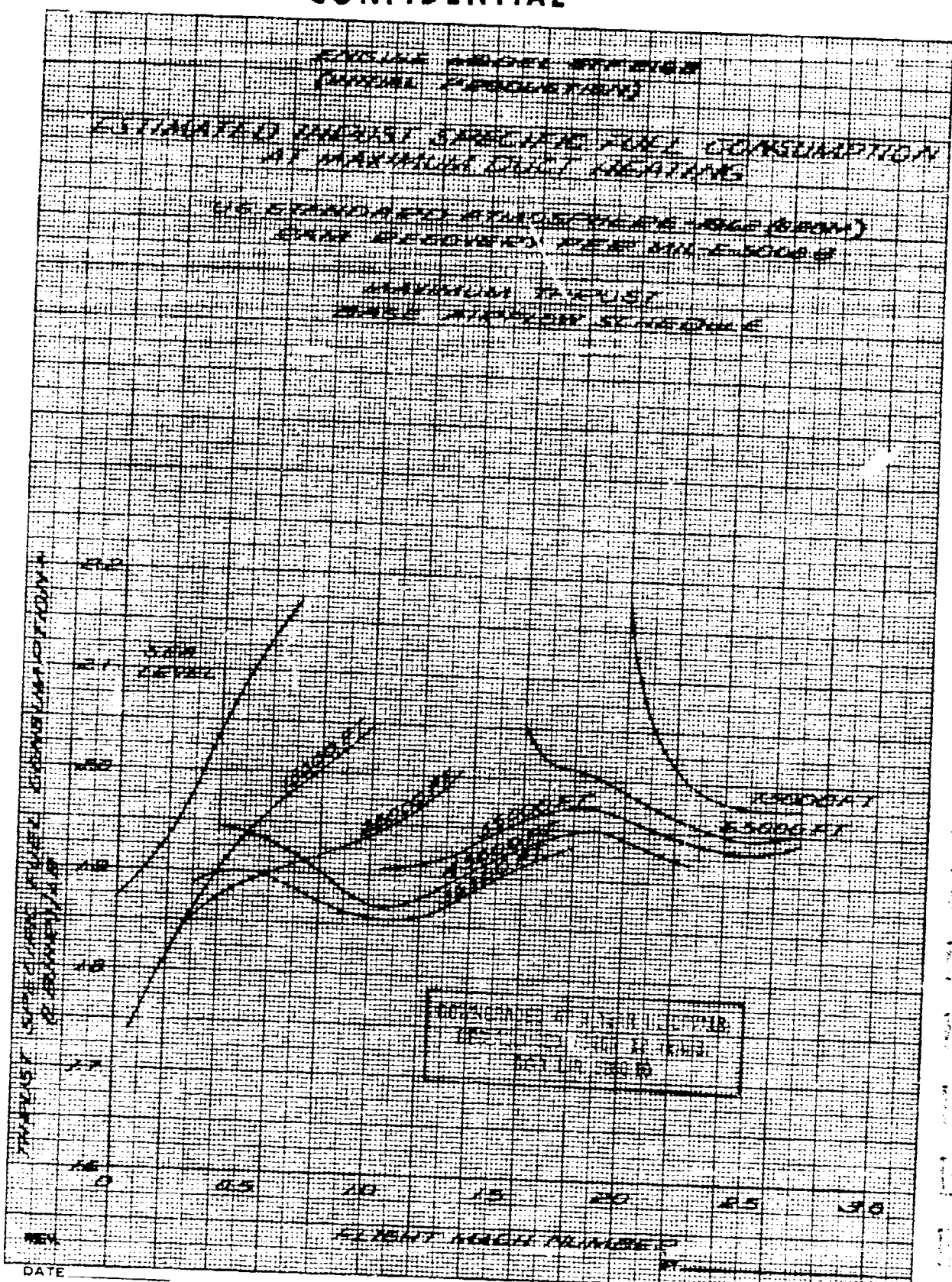
DATE

CURVE NO. 7-1688
SHEET 61

PRATT & WHITNEY AIRCRAFT

FWA FORM-3407A 10-60

CONFIDENTIAL



REV.

DATE

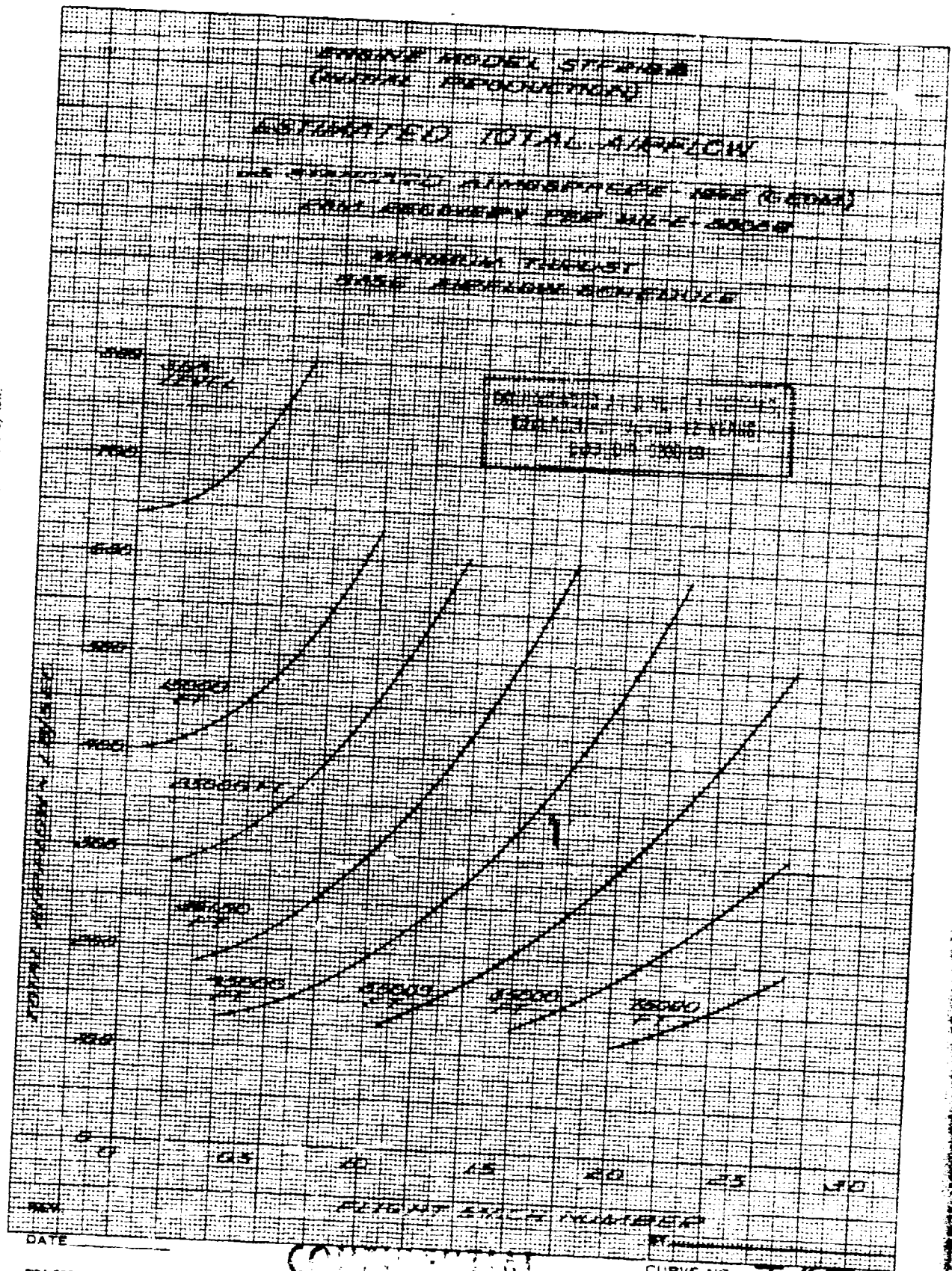
PWA FORM-3407A 10-58

PRATT & WHITNEY AIRCRAFT

CURVE NO. T-KBB

SHEET 62

CONFIDENTIAL



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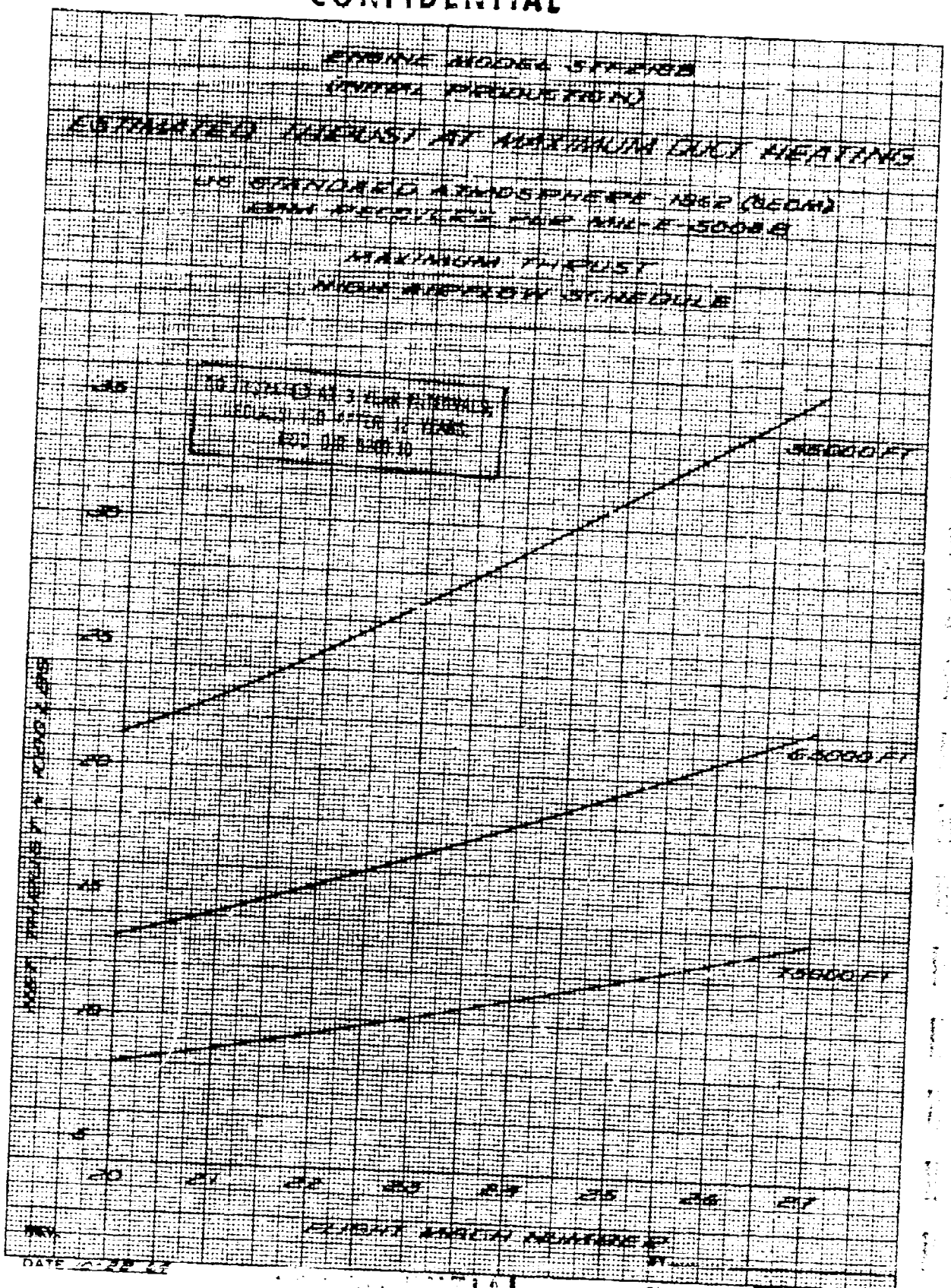

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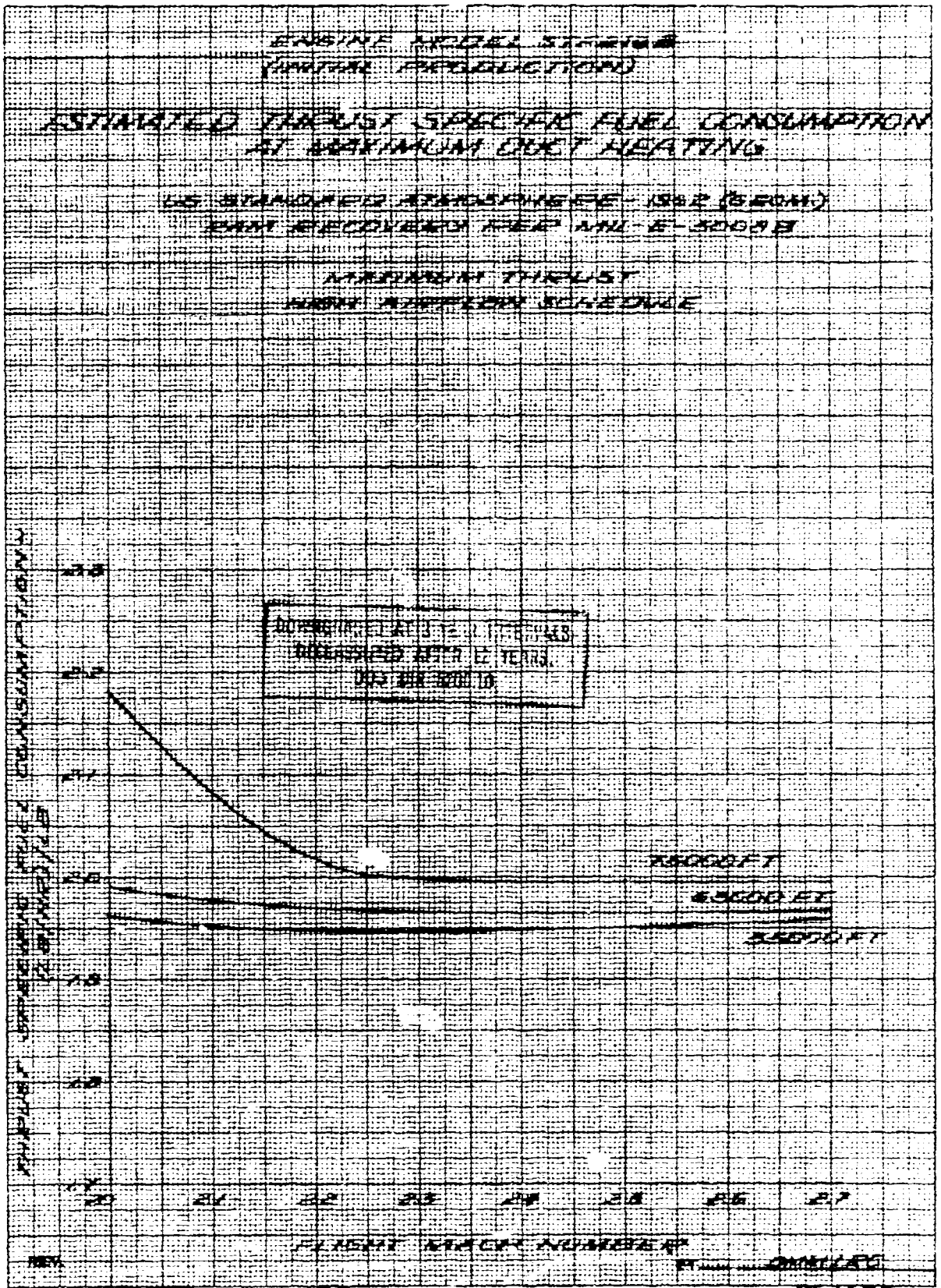

DATE 10-22-62

CURVE NO. T-1688 SHEET 65

PWA FORM 3407A 10-60

PRATT & WHITNEY AIRCRAFT

manner to an unauthorized person is prohibited by law.

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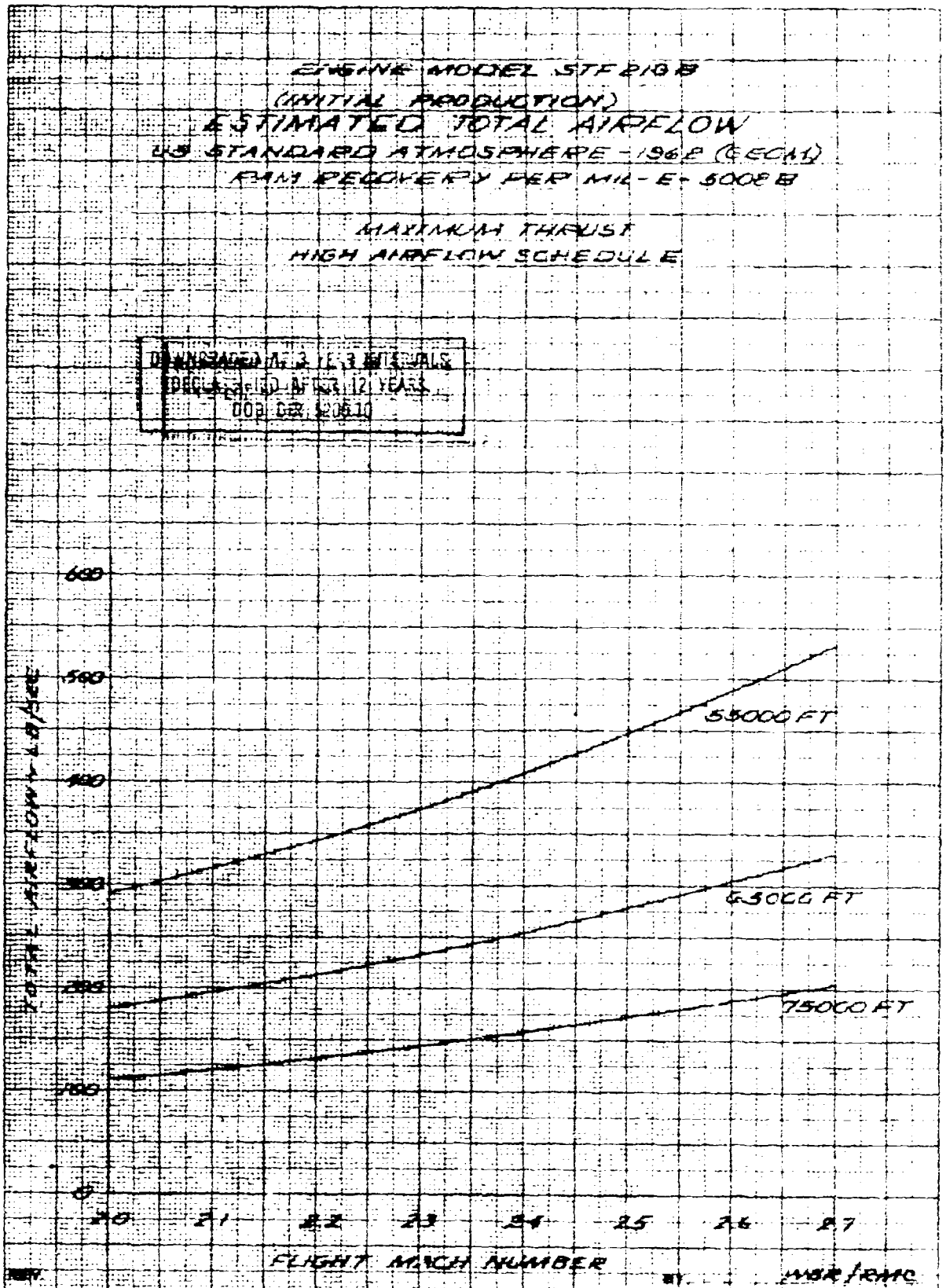

DATE 10-2-64

CURVE NO. T-1688

SHEET 66

PWA FORM 3407A 10-58

CONFIDENTIAL

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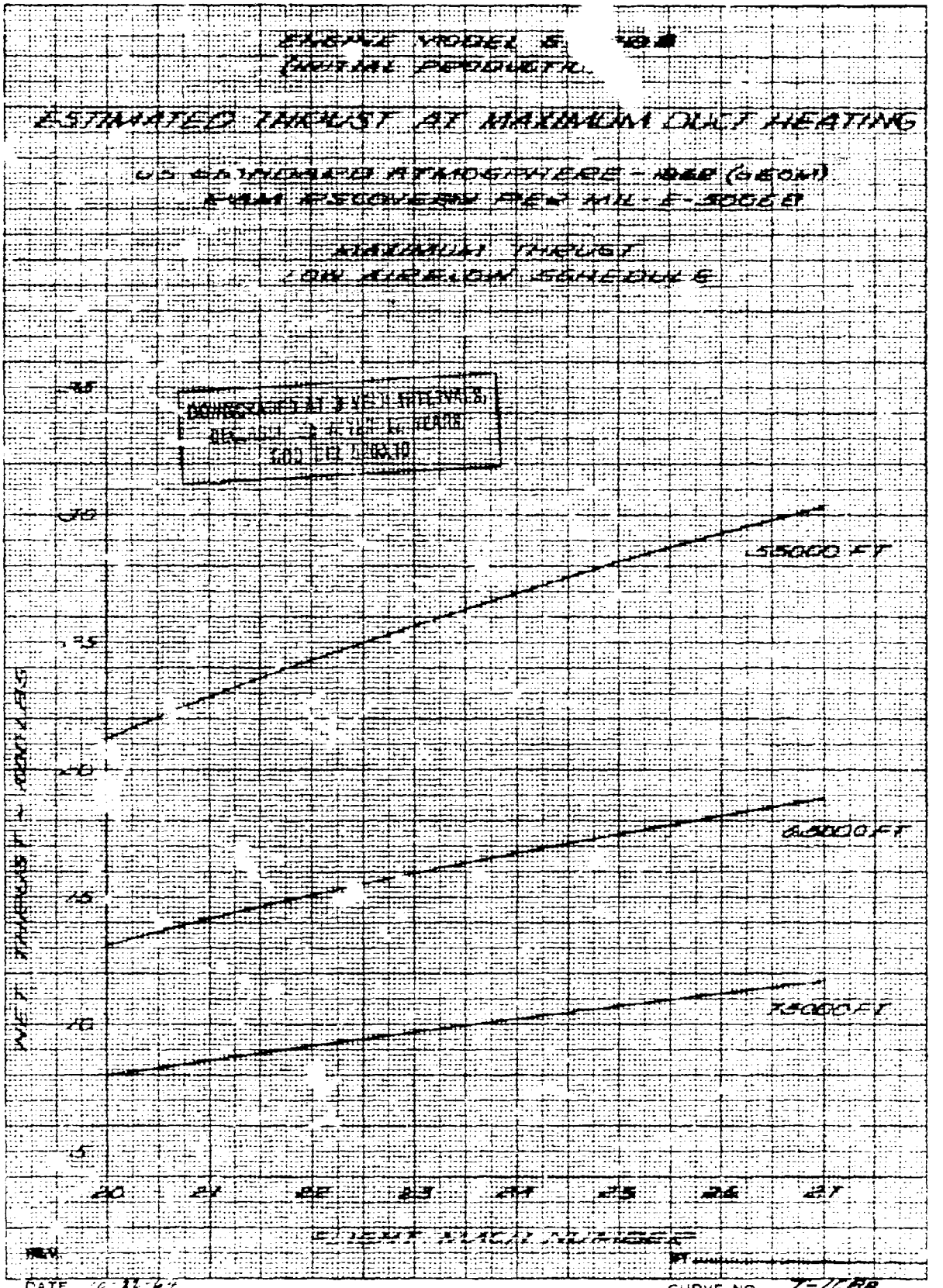

DATE 12-22-67

CURVE NO. T-1688
SHEET 67

PWA FORM 3407A 10-60

PRATT & WHITNEY AIRCRAFT

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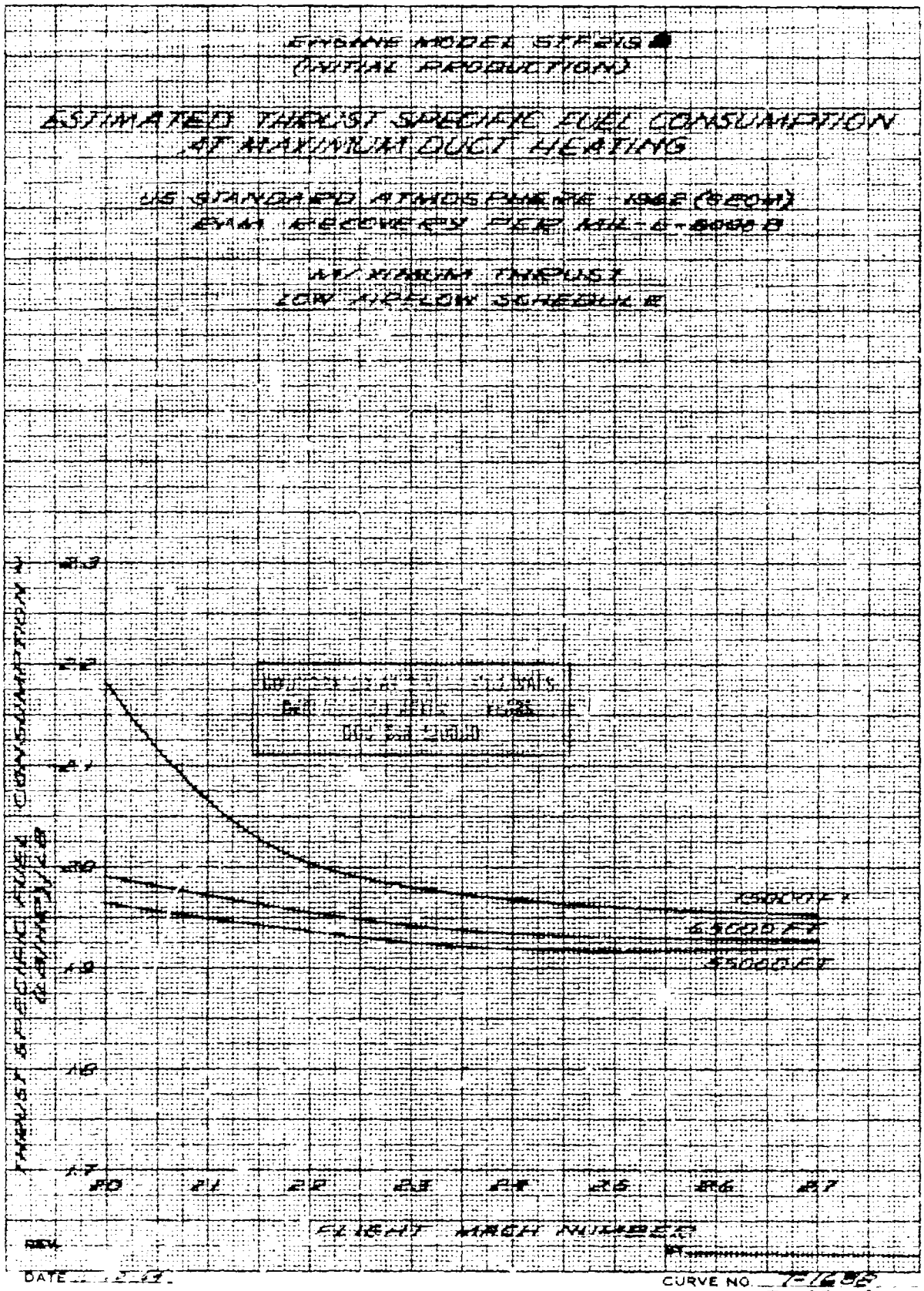

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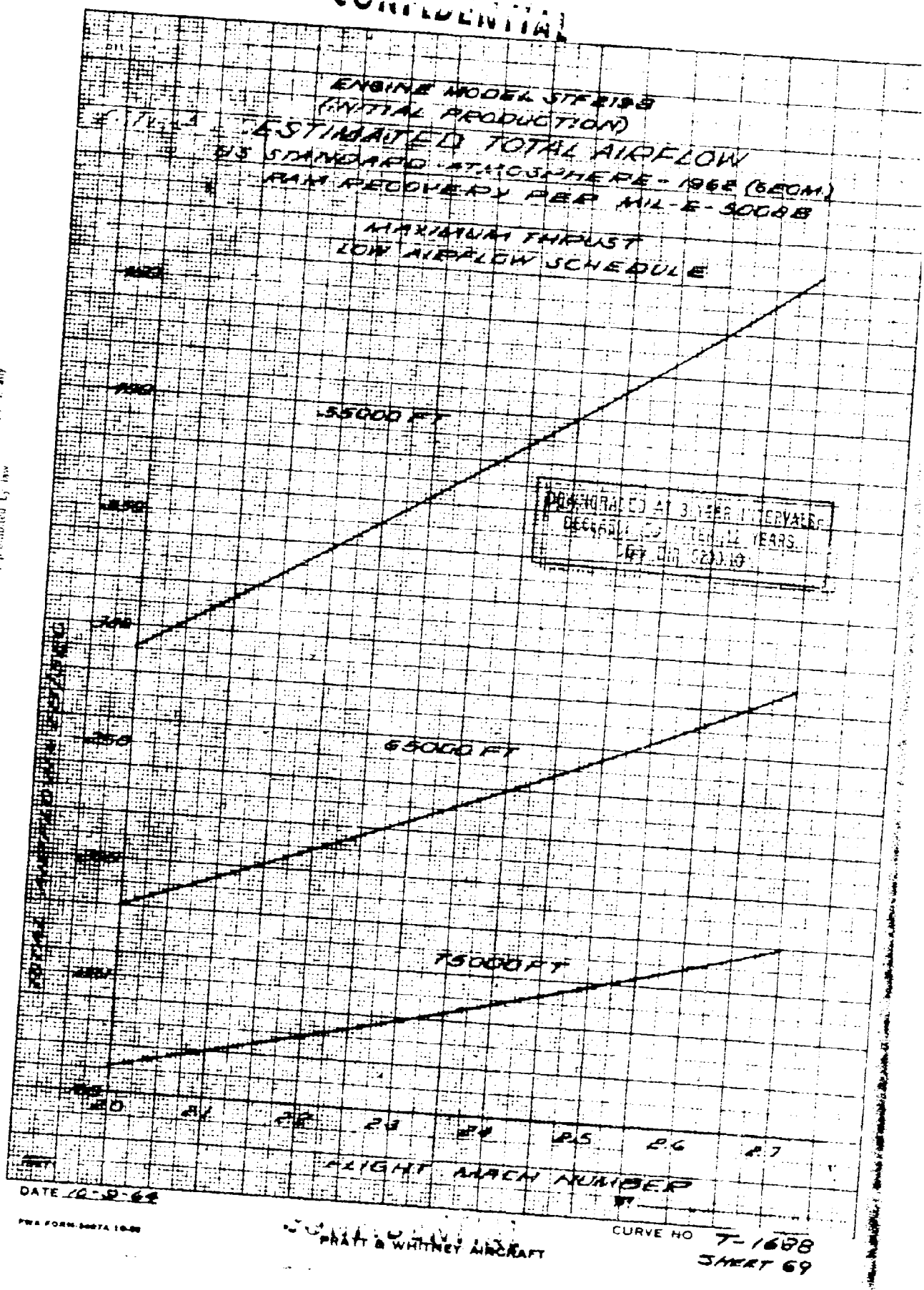

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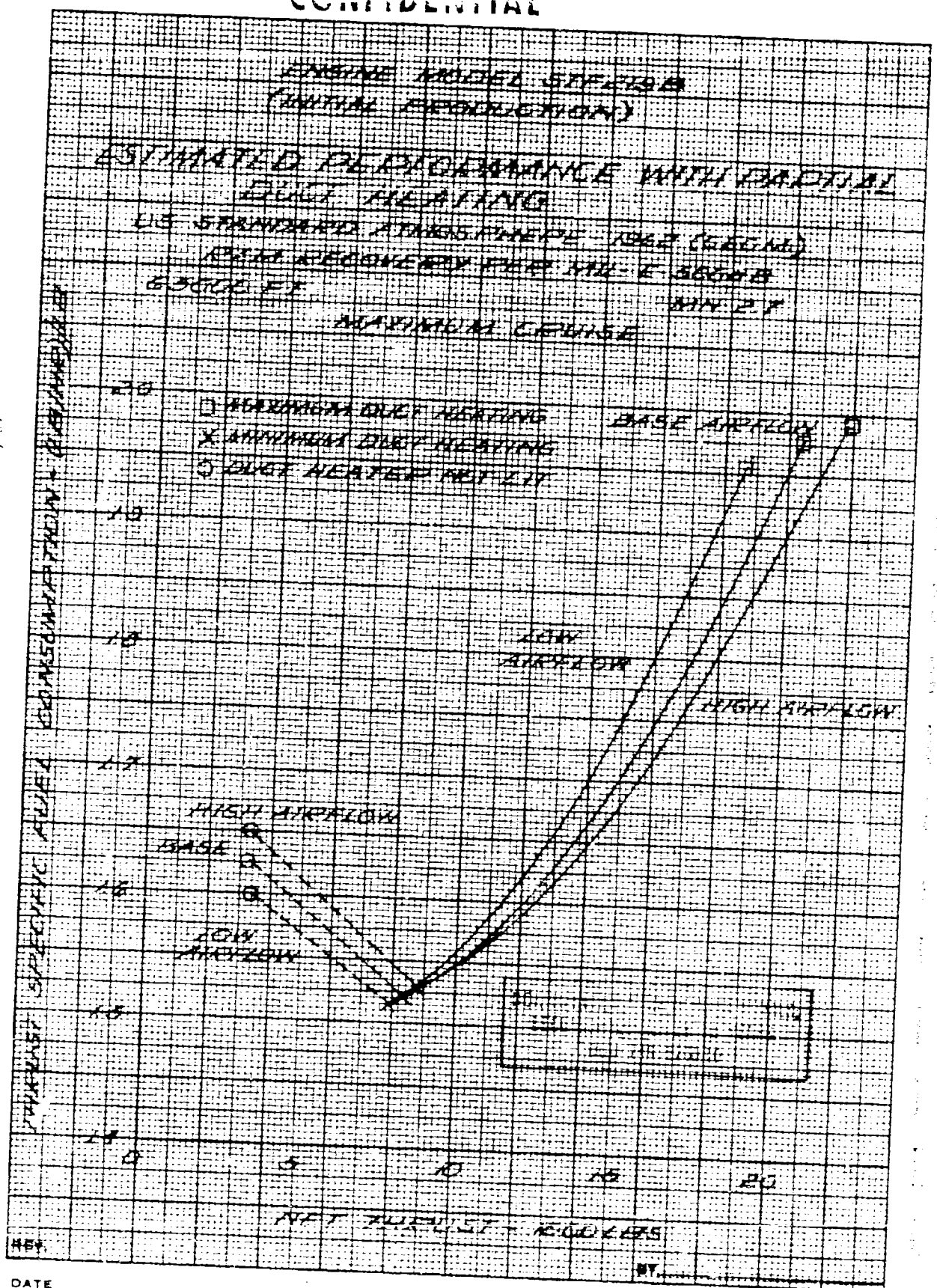

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DATE

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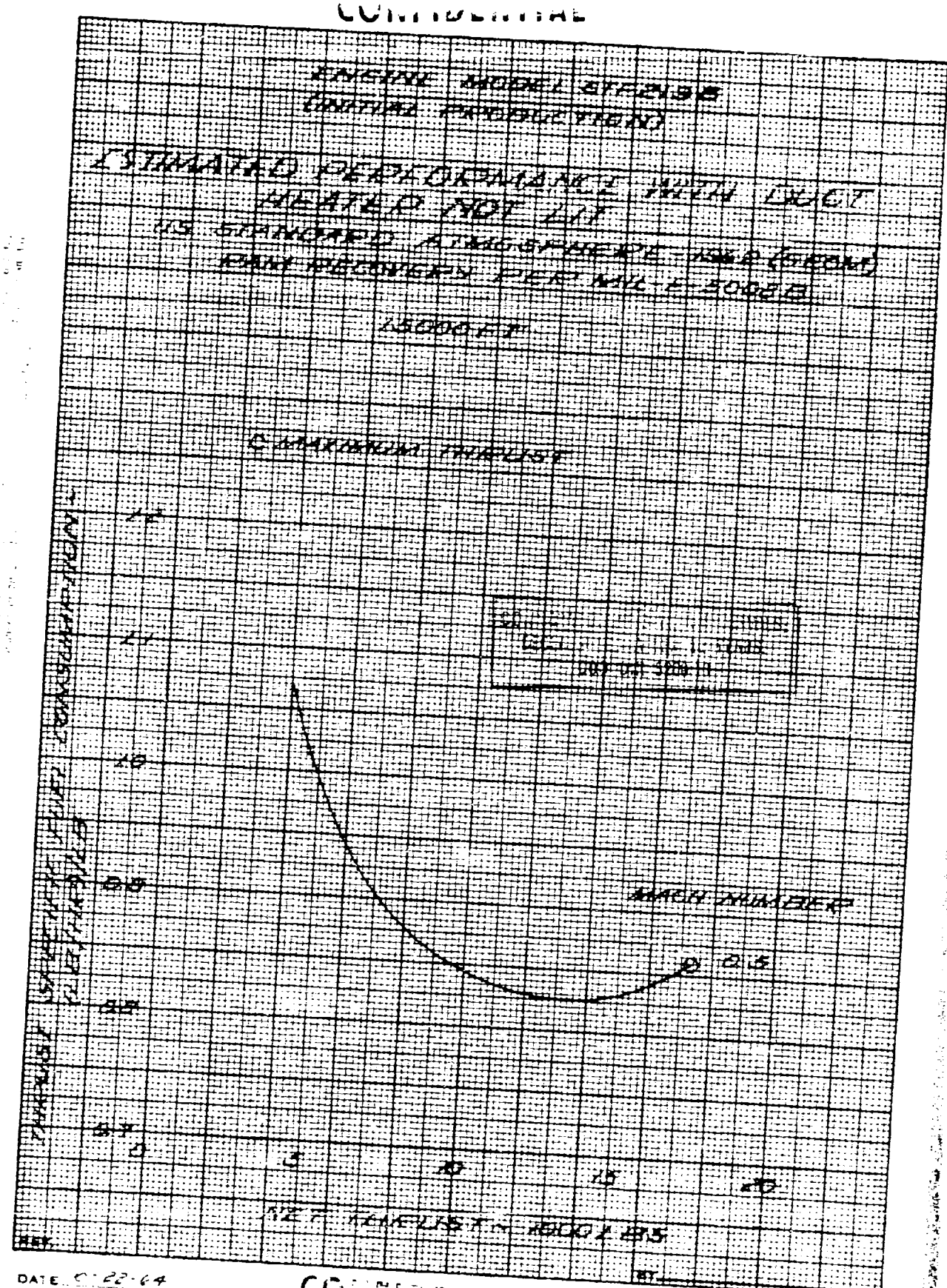
PWA FORM 3407 10-66

PRATT & WHITNEY AIRCRAFT

CURVE NO T-1689
SHEET 70



DATE 6-22-64

PWA FORM 3407 10-58

CURVE NO. T-1688
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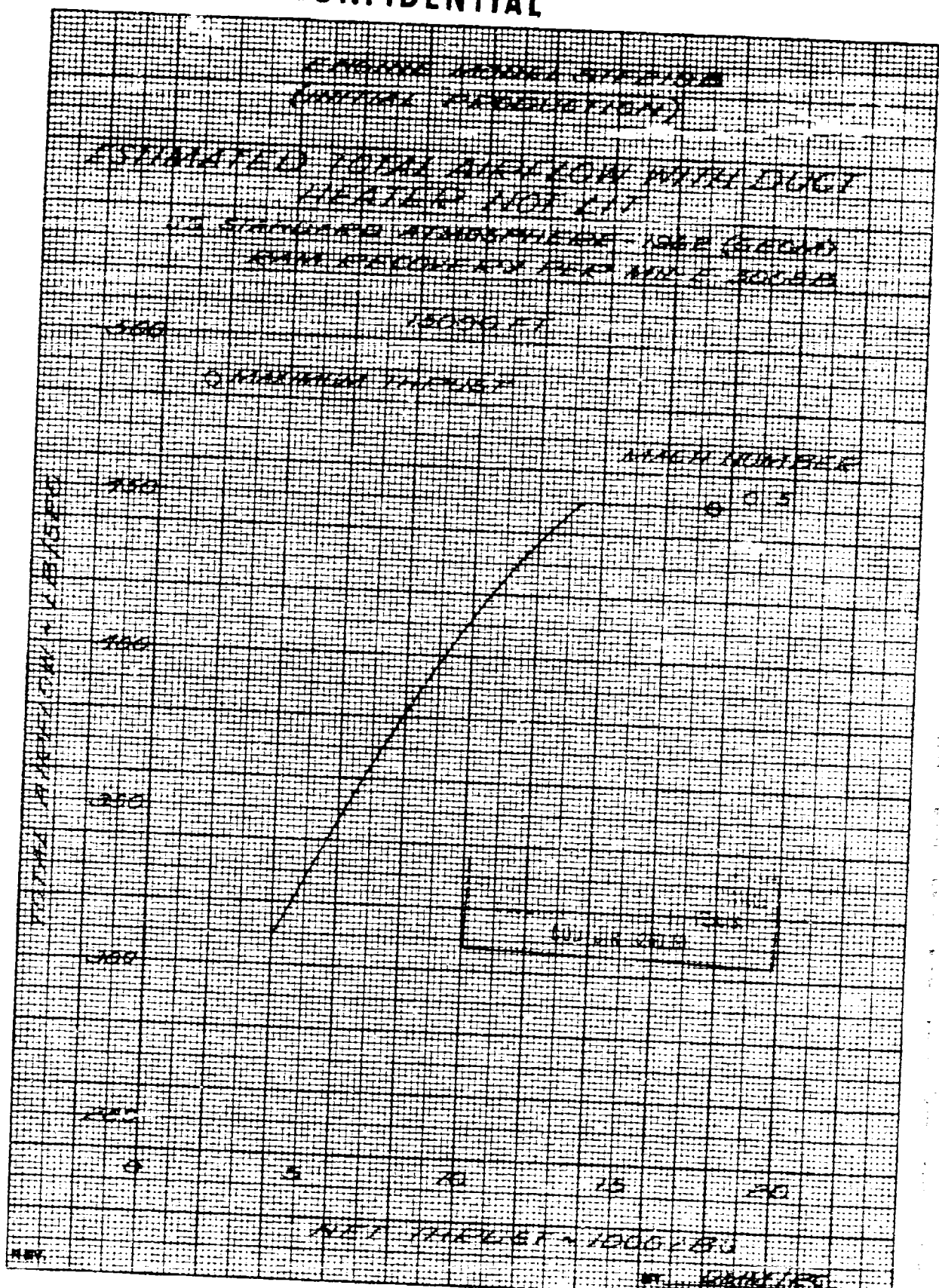

DATE 10-21-64

FWA FORM 3407 10 58

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PRATT & WHITNEY AIRCRAFT

CURVE NO. T-1688
SHEET 72

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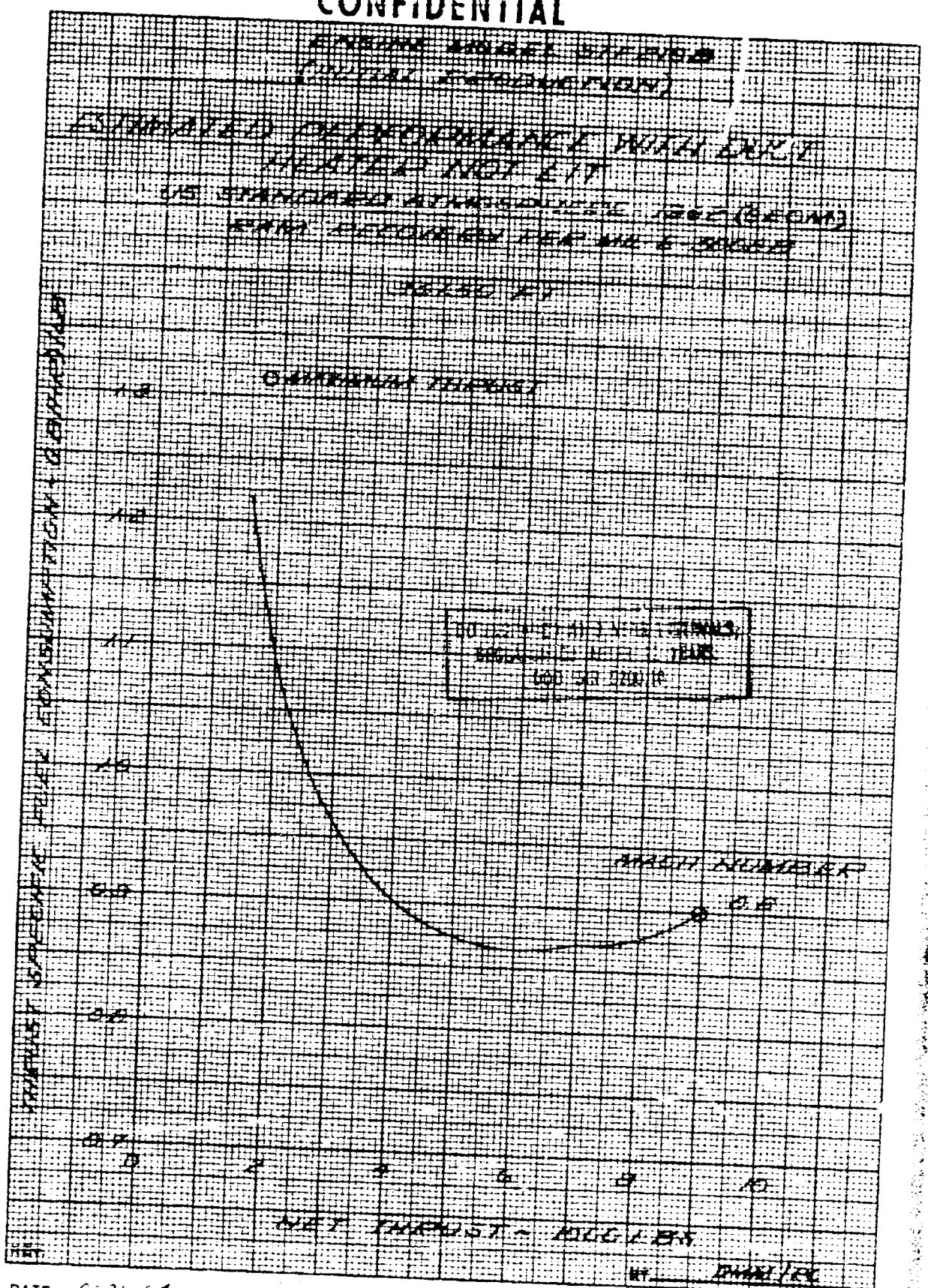


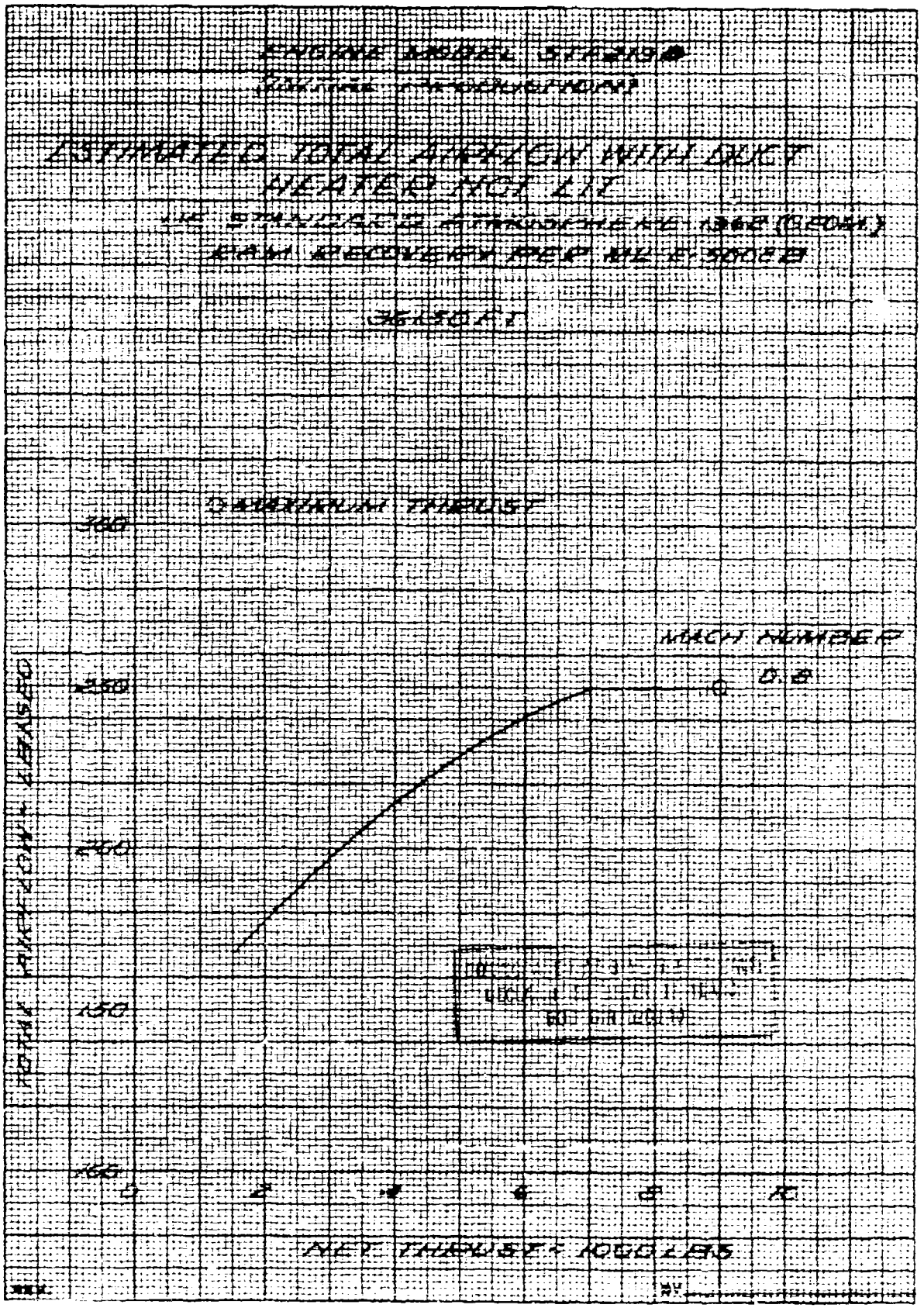
DATE 6-21-64

PWA FORM 3407 10-58

PRATT & WHITNEY AIRCRAFT

CURVE NO. T-1699
SHEET 3

CONFIDENTIAL



DATE 10-21-68

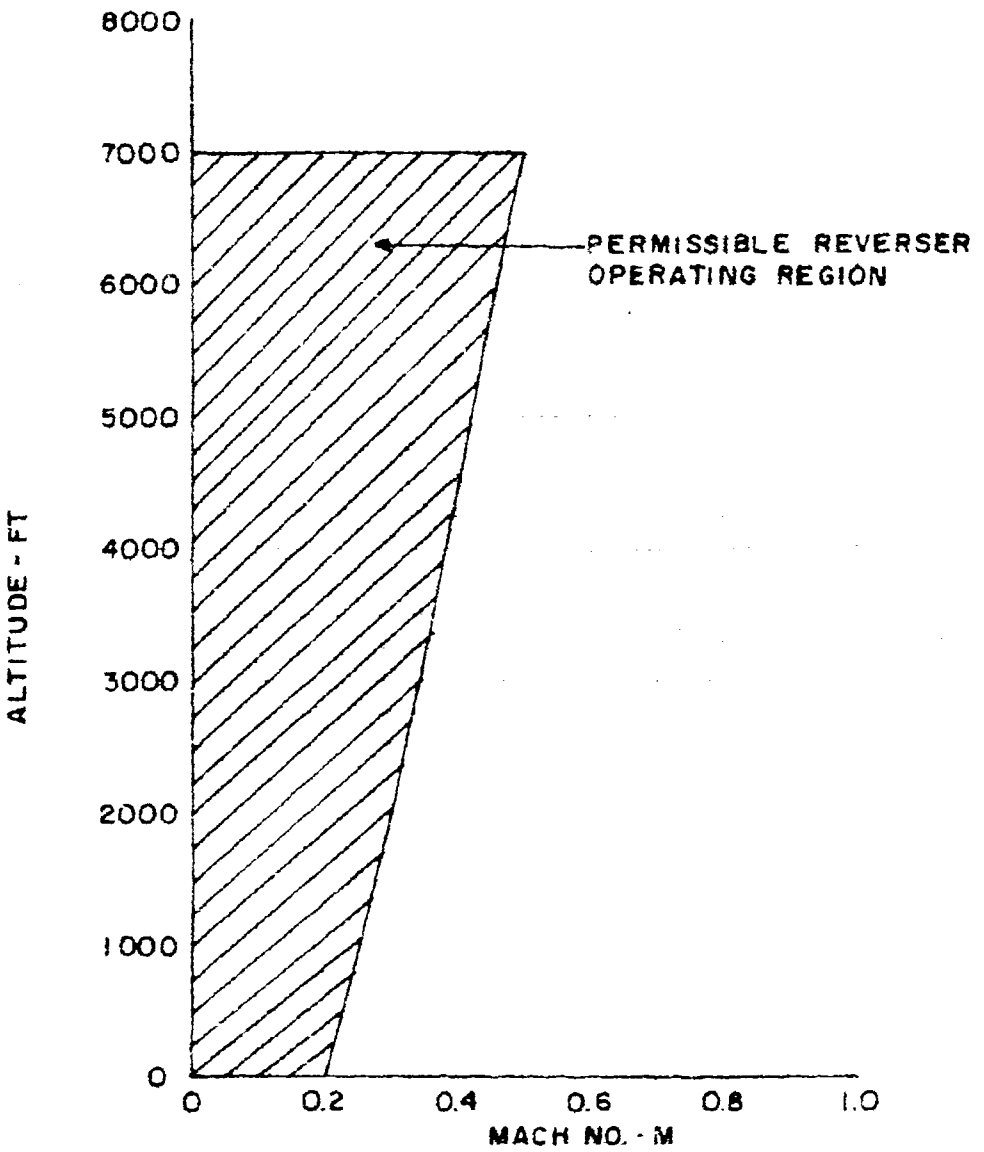
CURVE NO. T-1688 SHEET 74

PWA FORM 3407 10 68

PRATT & WHITNEY AIRCRAFT

Pratt & Whitney Aircraft — UA

ENGINE MODEL STF 219B
REVERSER ENVELOPE



DATE 10-15-64

CURVE NO. T-1686
SHEET 75

Pratt & Whitney Aircraft — Division of United Aircraft Corporation

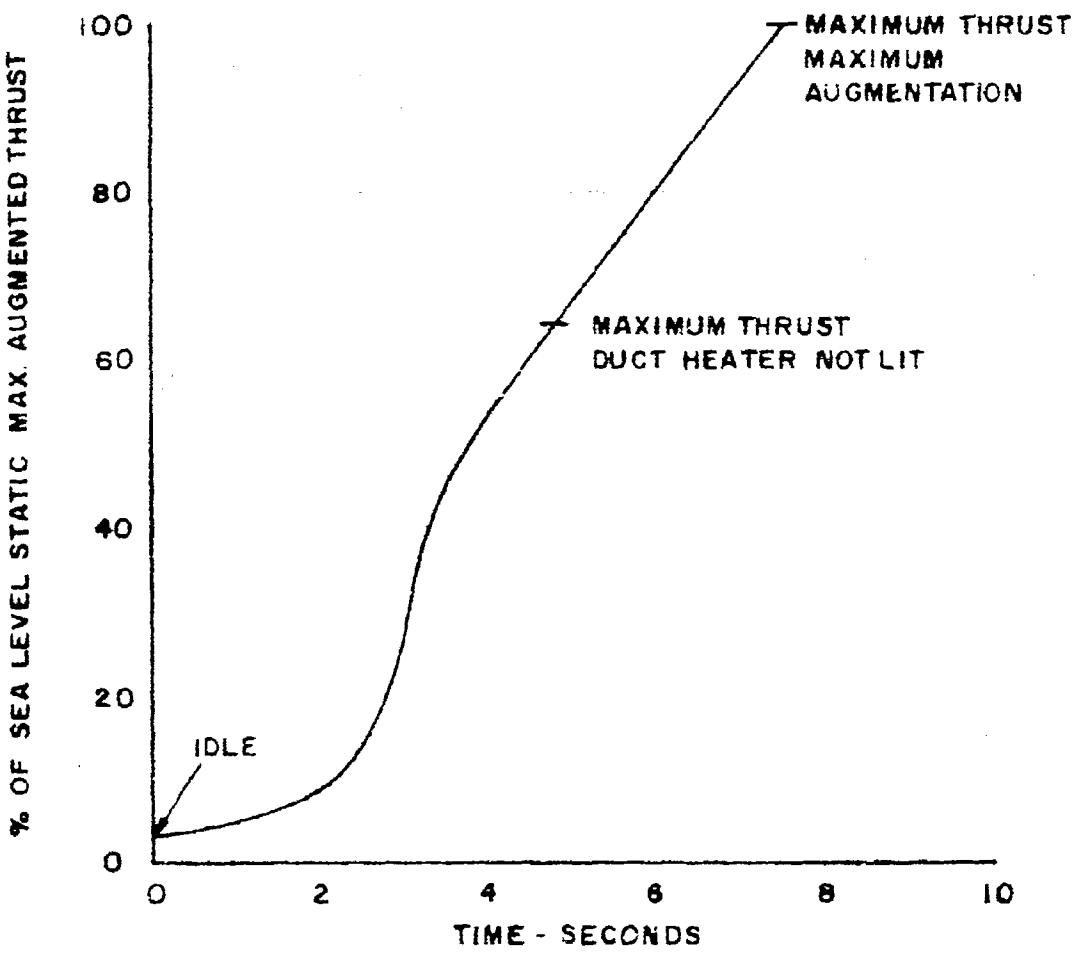
ENGINE MODEL STF 219B

ESTIMATED ENGINE ACCELERATION TIME FROM IDLE TO MAXIMUM THRUST

PERCENT THRUST VS. TIME

NOTE-

This curve is for the STF 219 Engine at sea level, static take-off. However, the acceleration times may be applied for other flight conditions which fall between zero & 0.3 M_n & sea level to 10,000 Ft.



DATE 10-15-64

CURVE NO. T-1688
SHEET 76

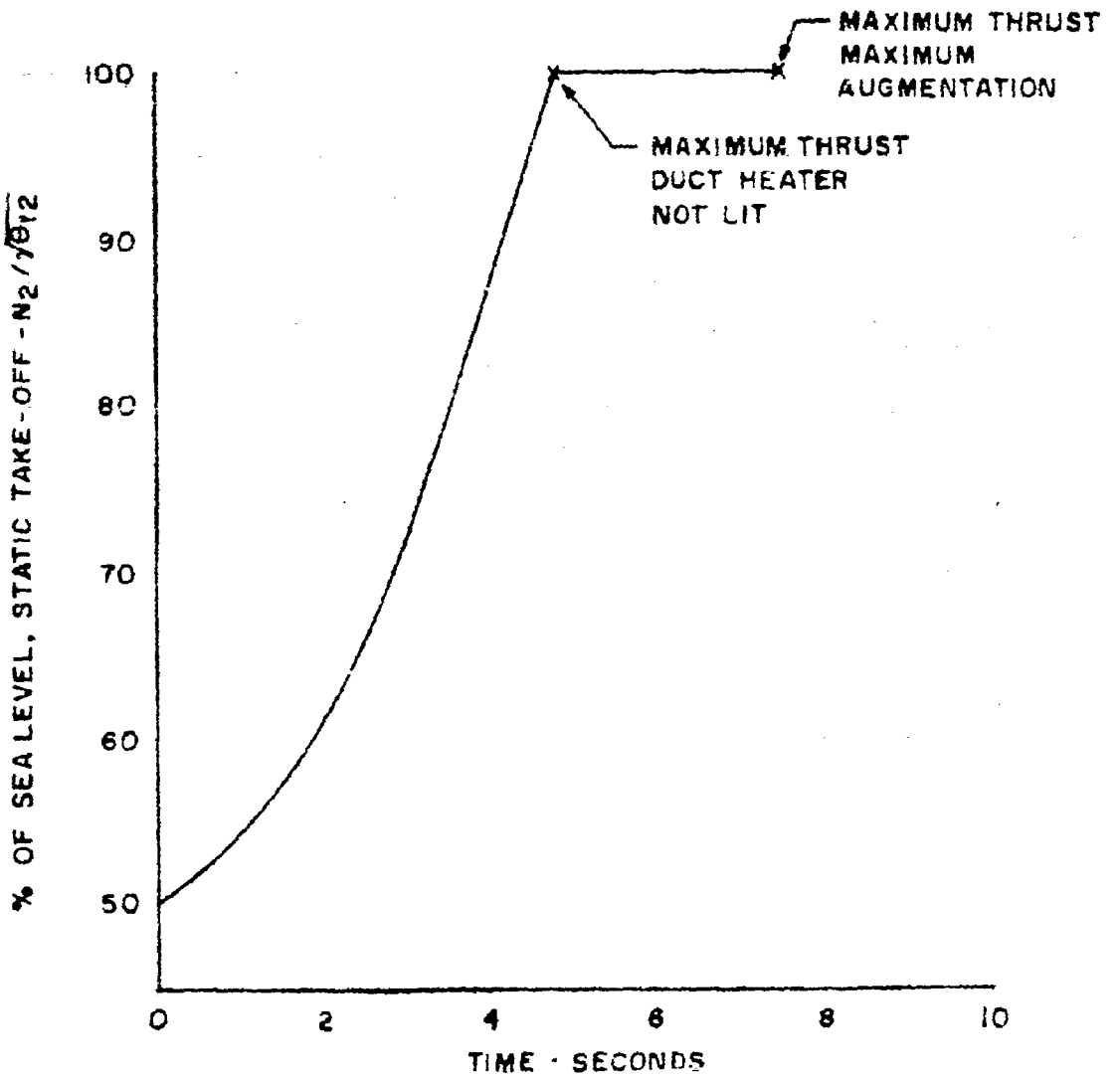
Pratt & Whitney Aircraft — Division of United Aircraft Corporation

ENGINE MODEL STF 219B

ESTIMATED ENGINE ACCELERATION TIME FROM IDLE TO MAXIMUM THRUST
HIGH ROTOR SPEED VS. TIME

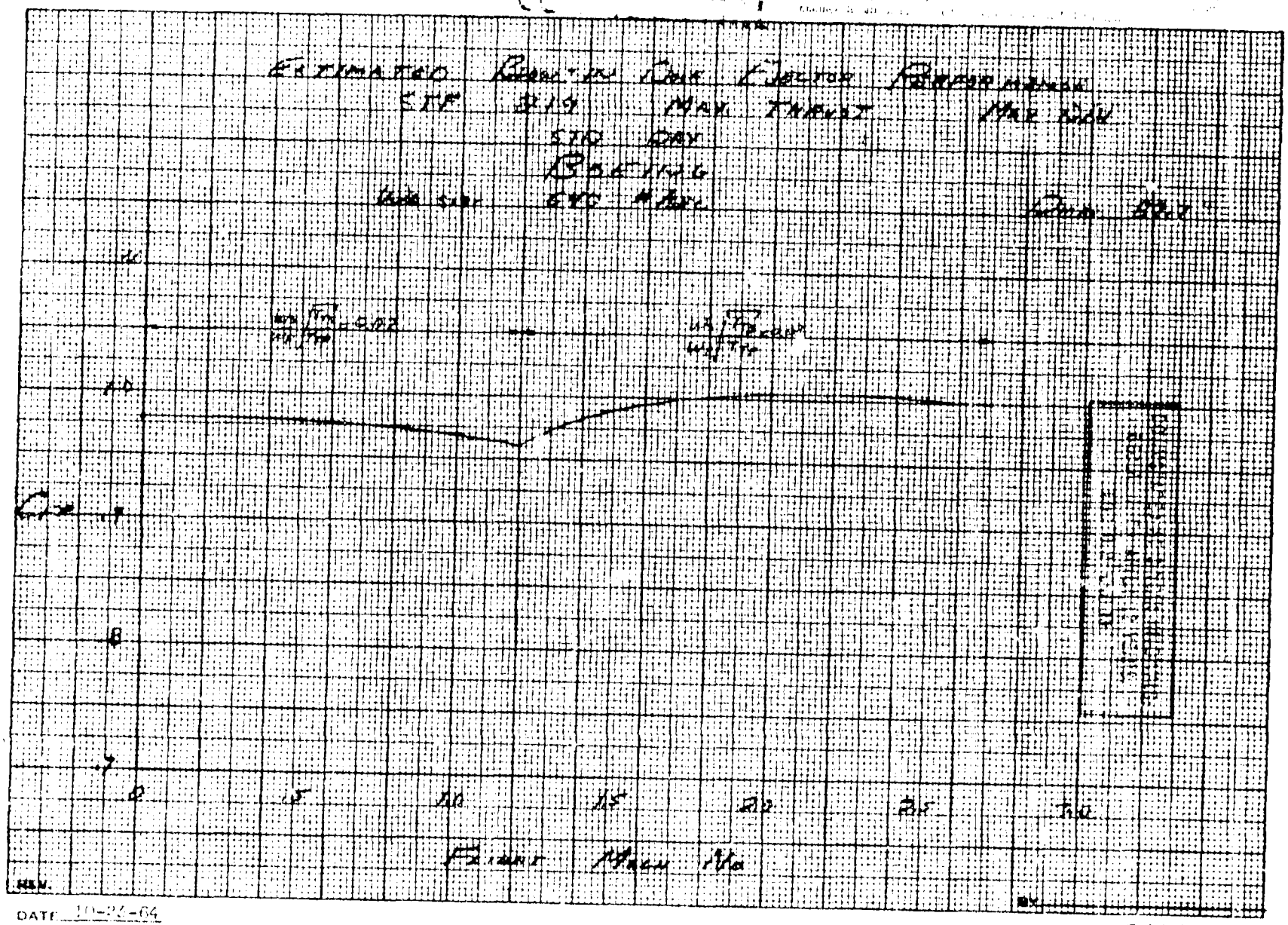
NOTE -

This curve is for the STF 219 Engine at sea level, static take-off. However, the acceleration times may be applied for other flight conditions which fall between zero & 0.3 M_n & sea level to 10,000 Ft.



DATE 10-15-64

CURVE NO. T-1688
SHEET 77



DATE 10-22-64

FWA FORM 8407B 10-69

PRATT & WHITNEY AIRCRAFT

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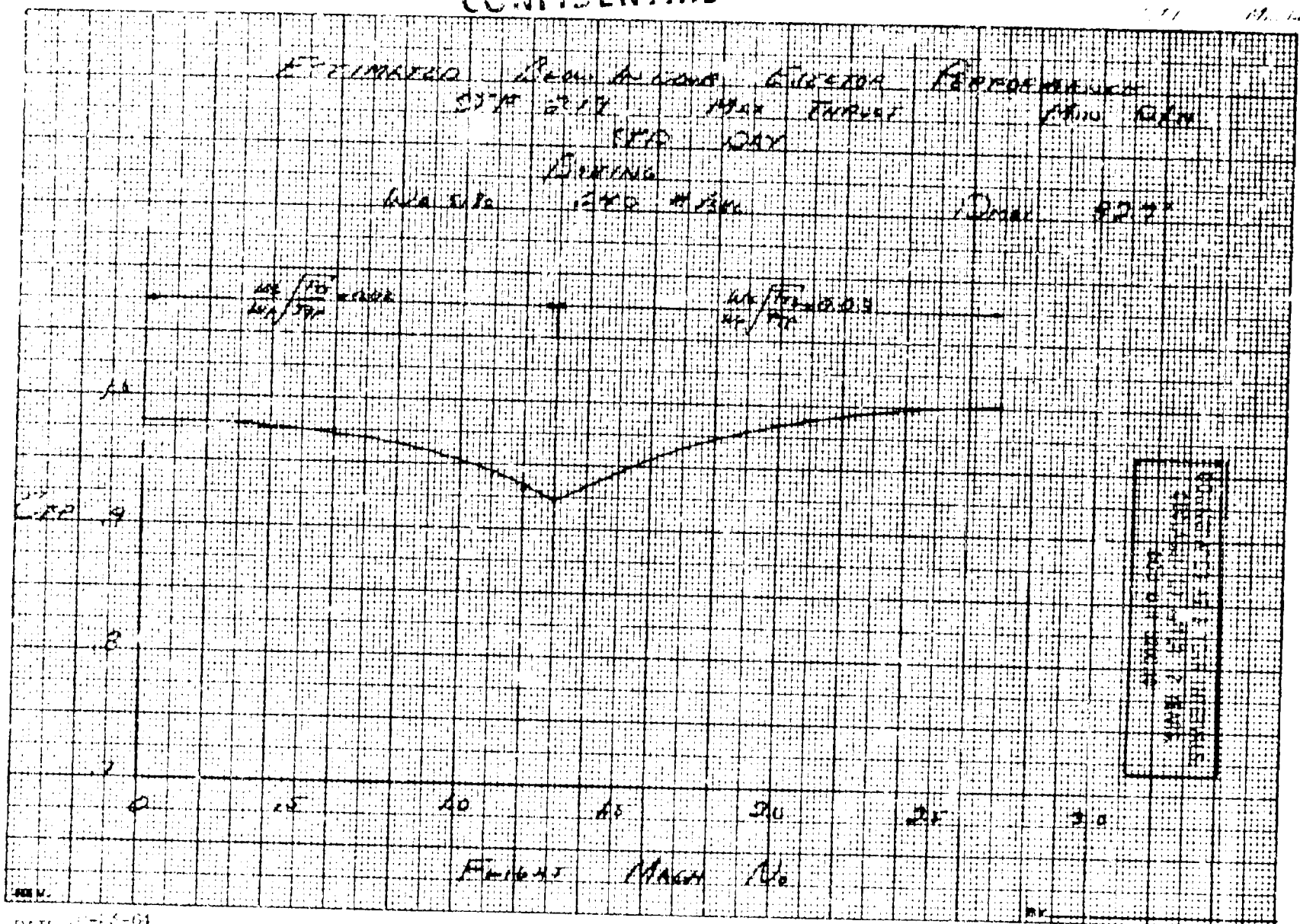

DATE 7-1-61

PRATT & WHITNEY AIRCRAFT

CURVE NO. T-1000

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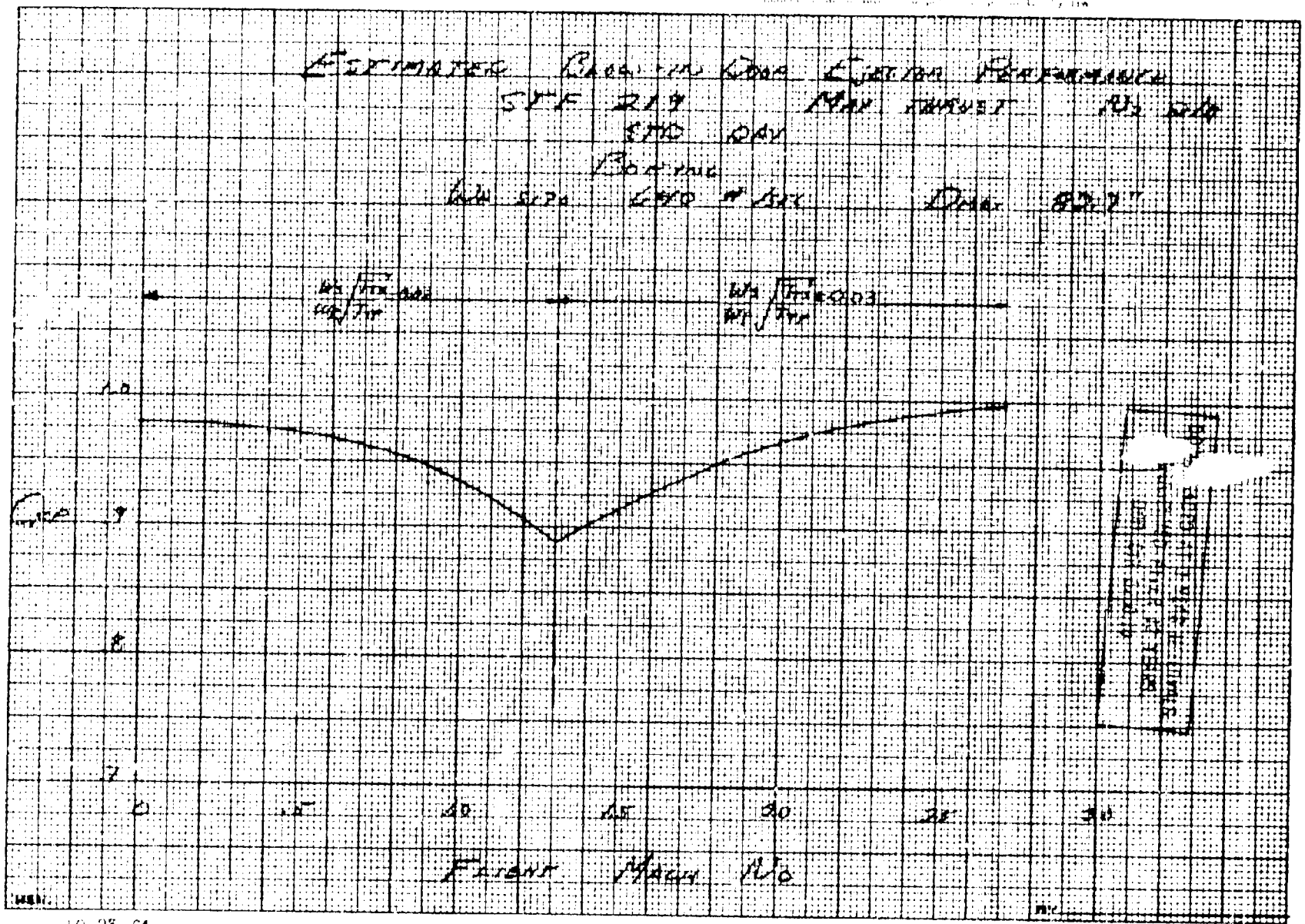

DATE 10-23-64

PWA FORM 34078 10-59

PRATT & WHITNEY AIRCRAFT

CURVE NO. T-1688

Sheet No. 90

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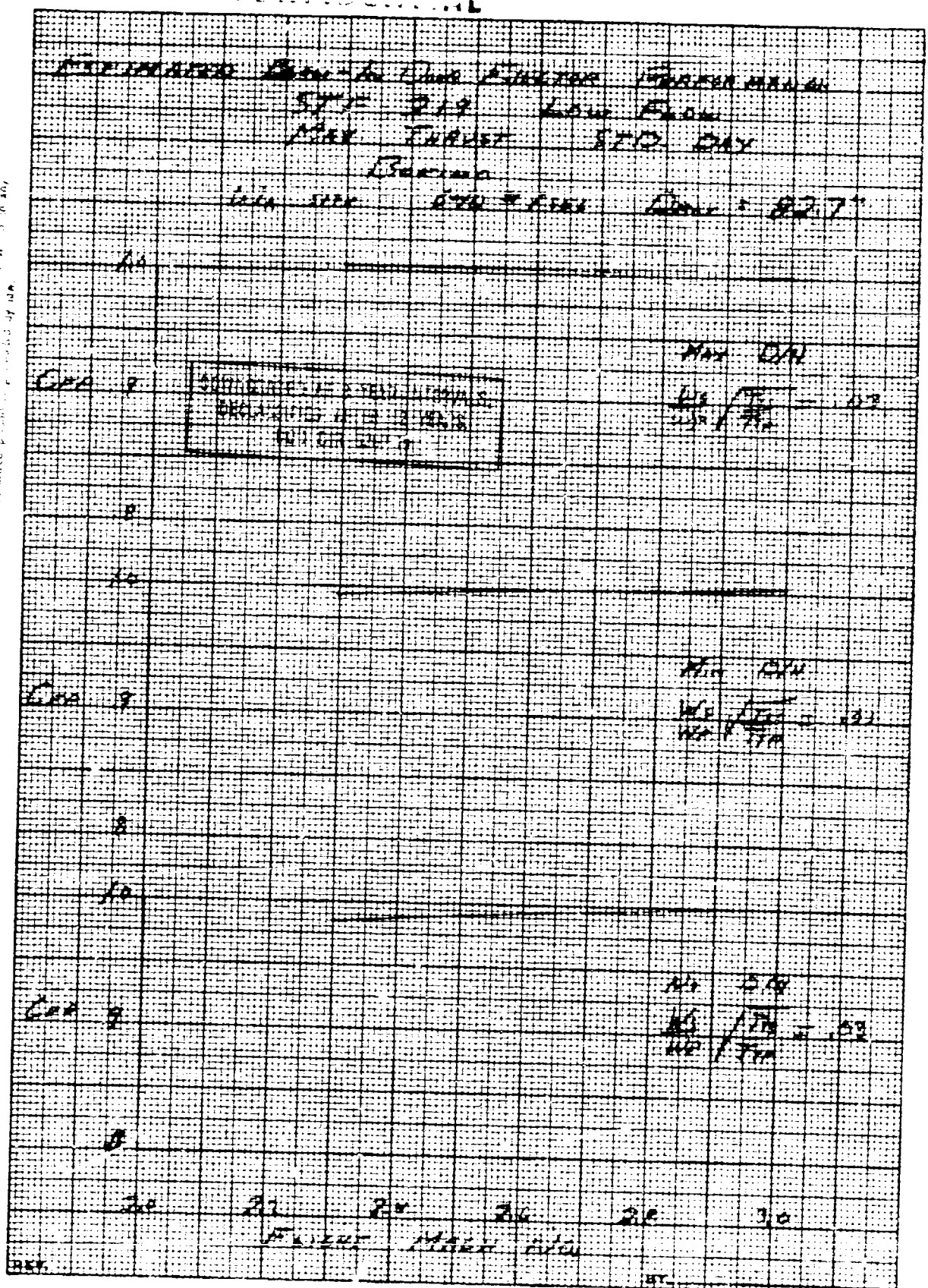

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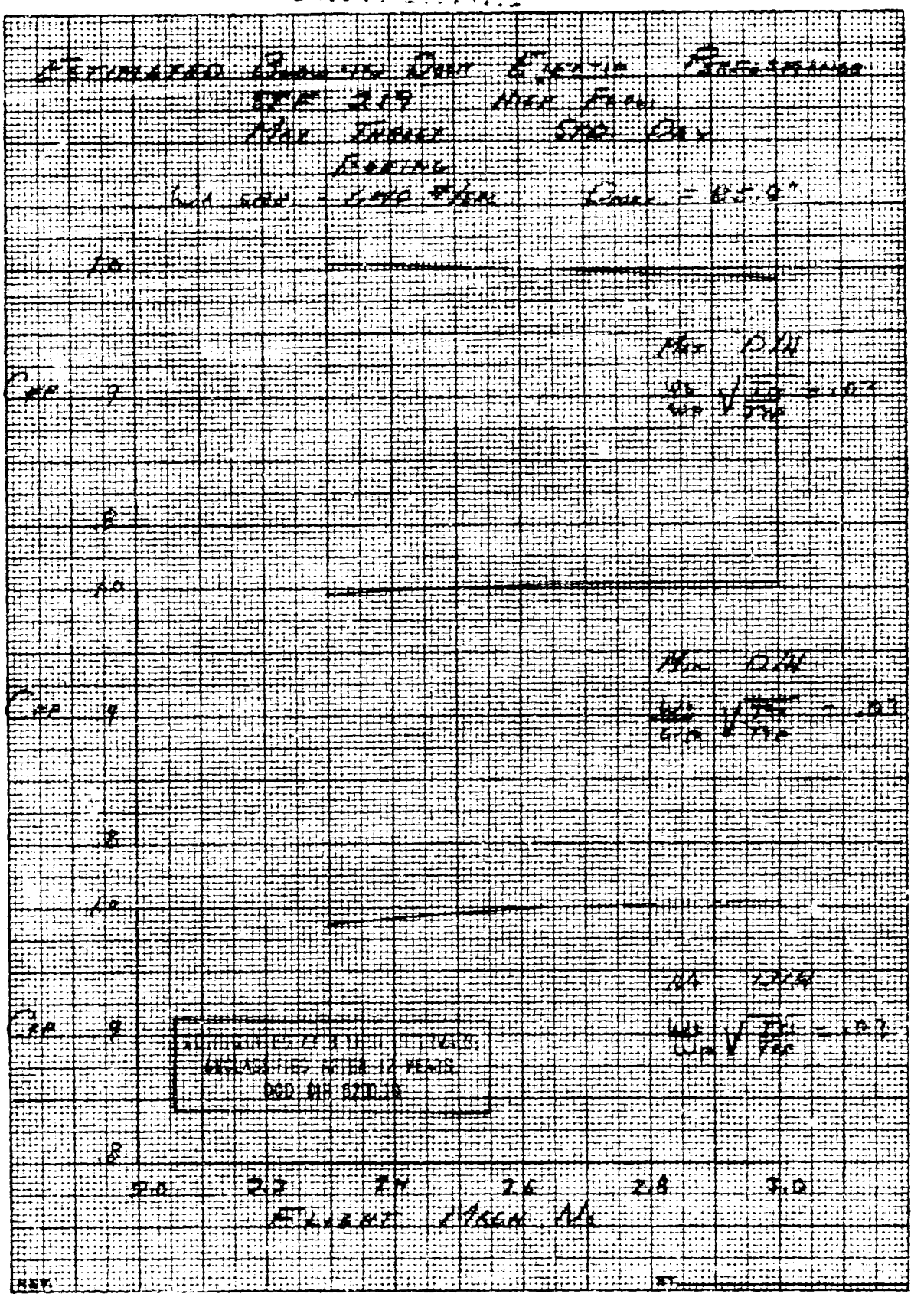

DATE 10-22-54

PRATT & WHITNEY AIRCRAFT

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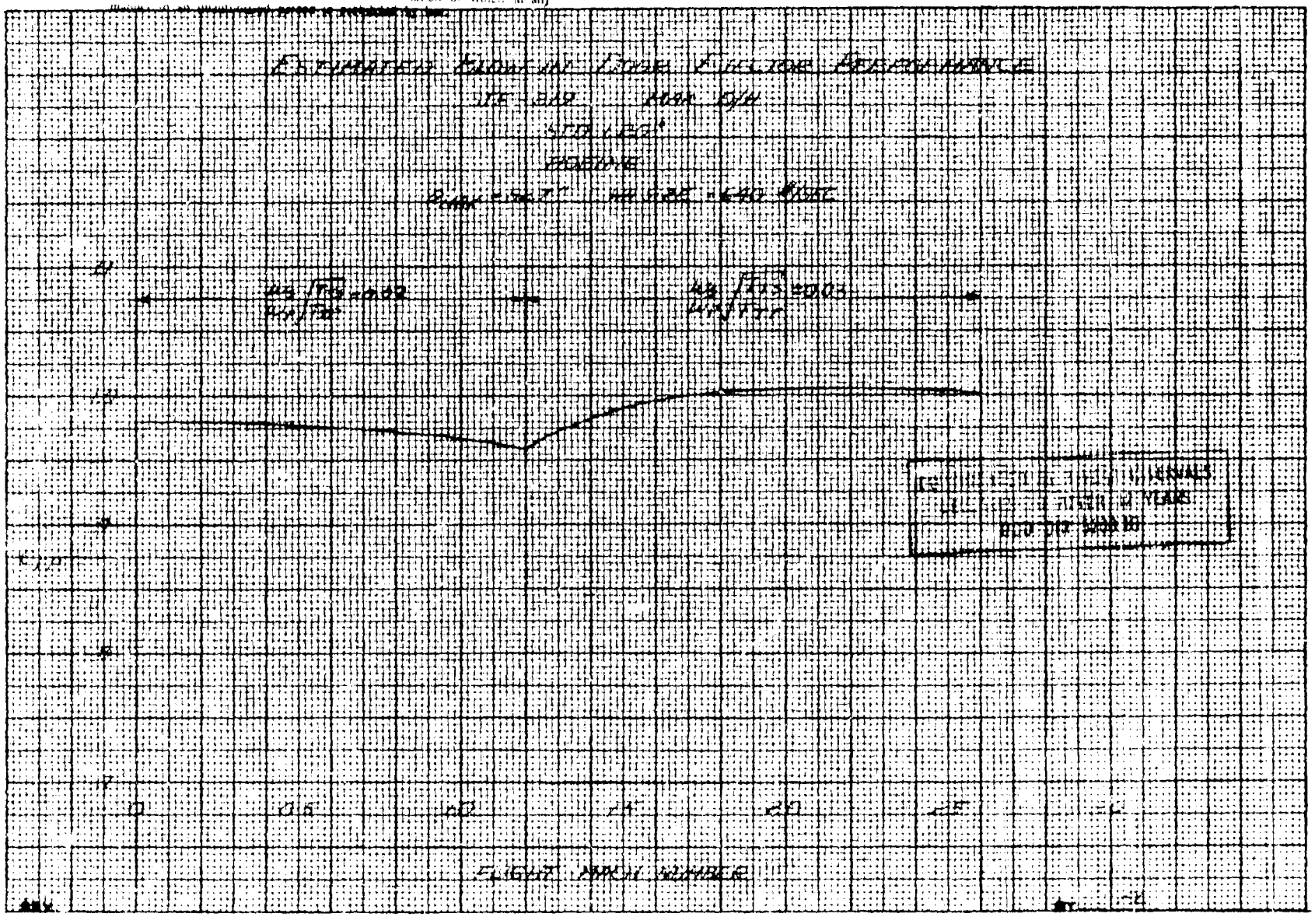
Sheet 82



DATE

PWA FORM 3407B 10-58

PRATT & WHITNEY AIRCRAFT

CURVE NO

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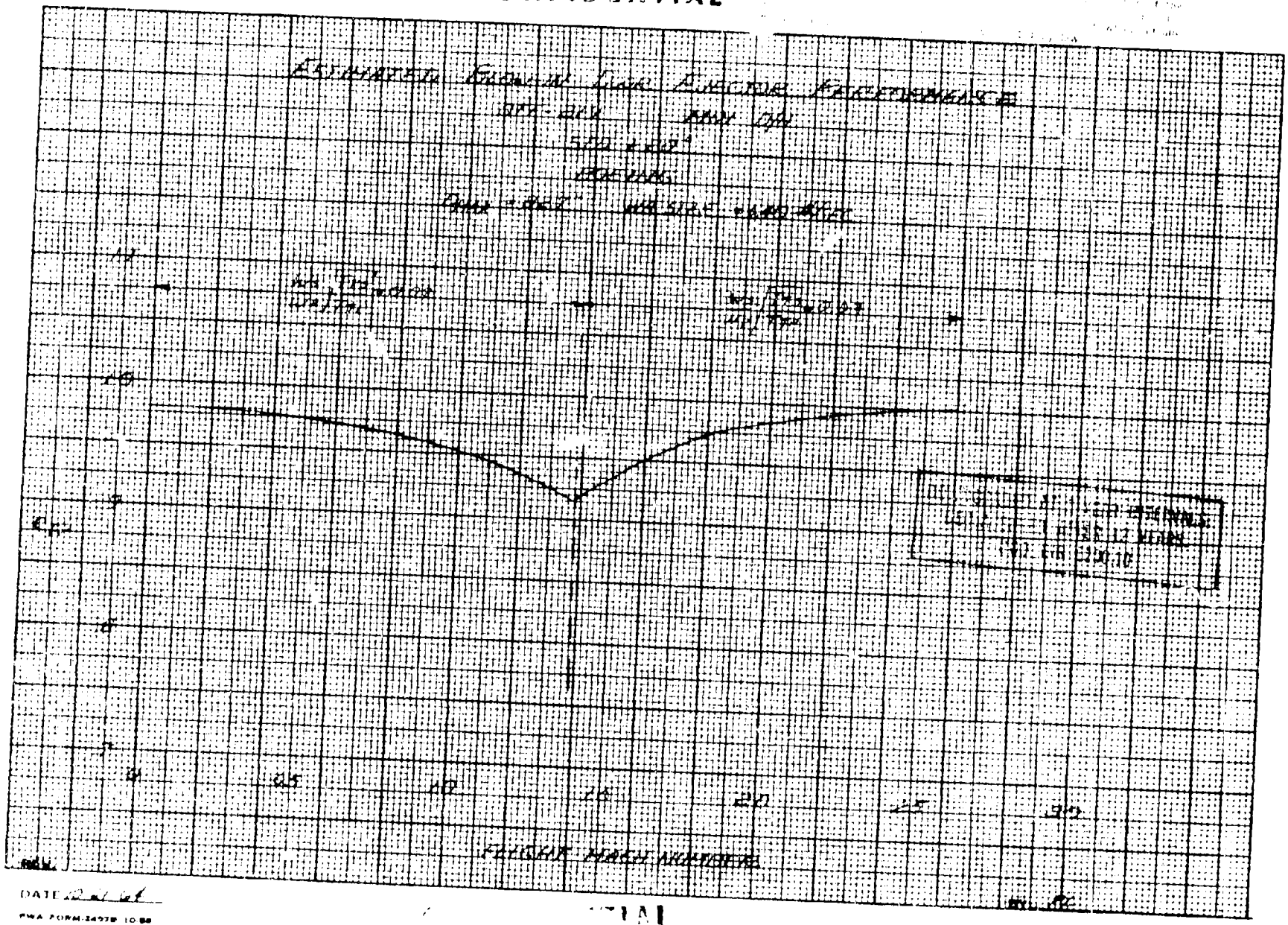


DATE 10 21 64

PWA FORM-24978 10-58

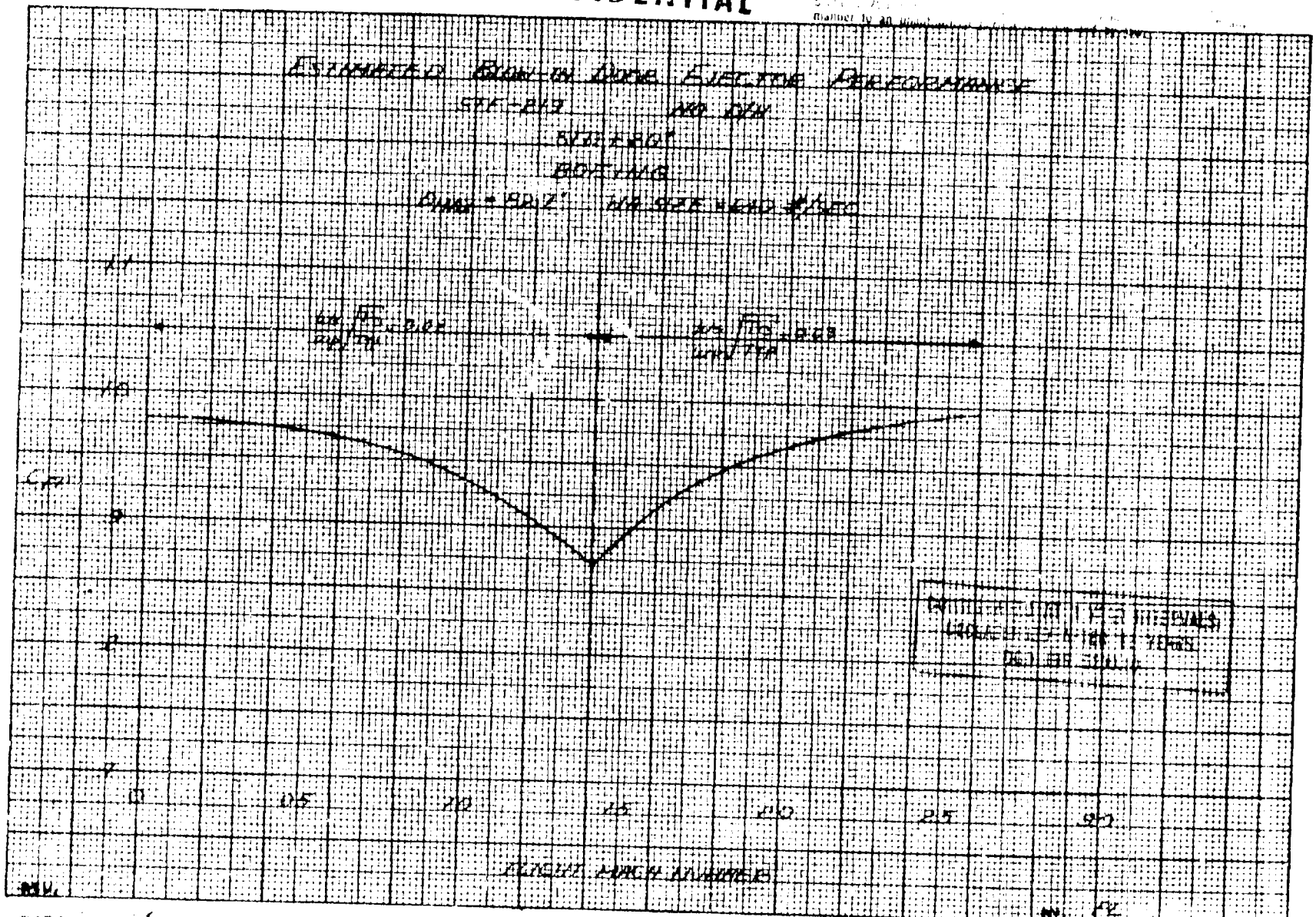
CONFIDENTIAL

PRATT & WHITNEY AIRCRAFT

CURVE NO T-1688

Sheet 84

CONFIDENTIAL



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FWA FORM 3407B 10-50

PRATT & WHITNEY AIRCRAFT

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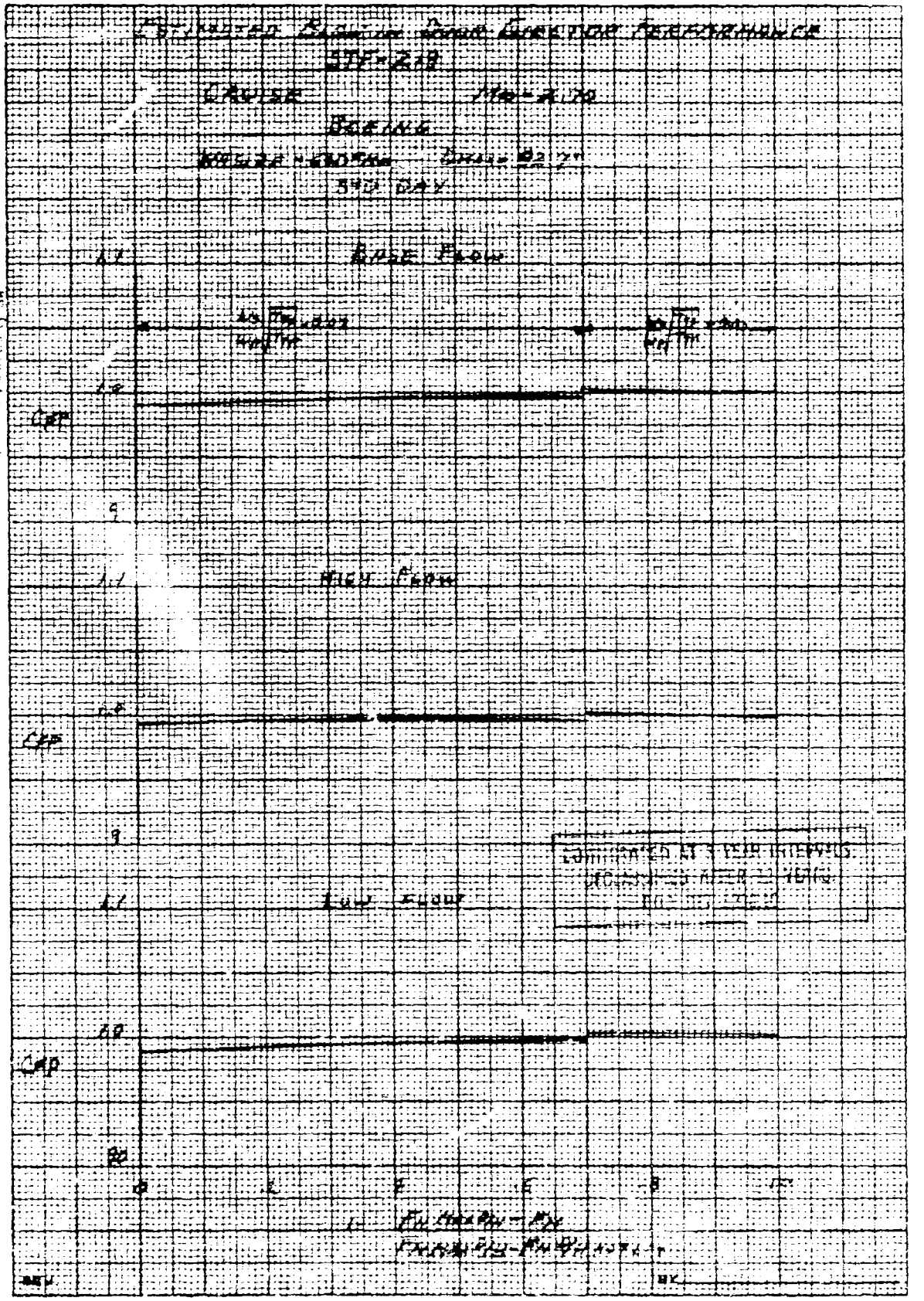

DATE 2-13-64

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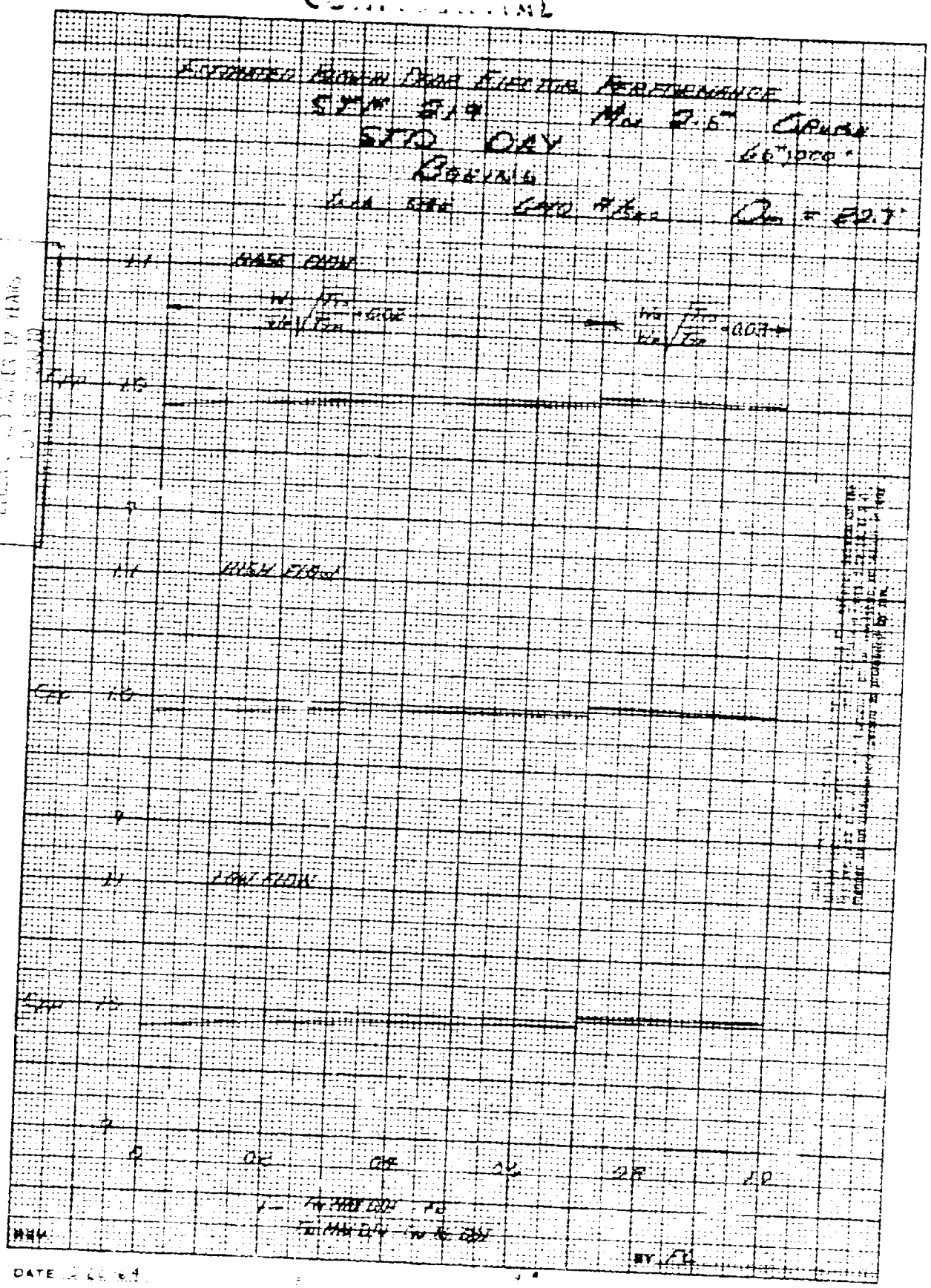
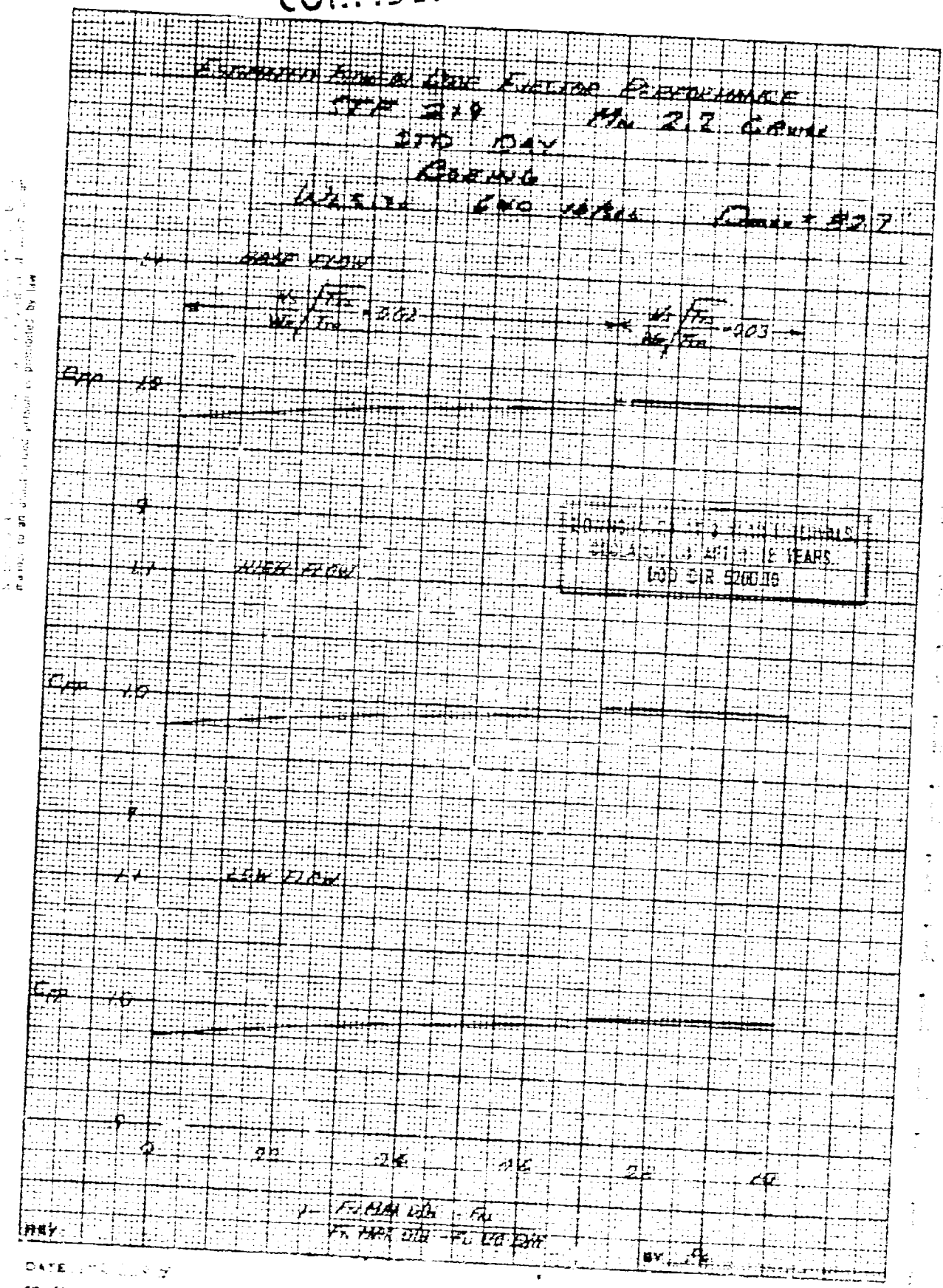
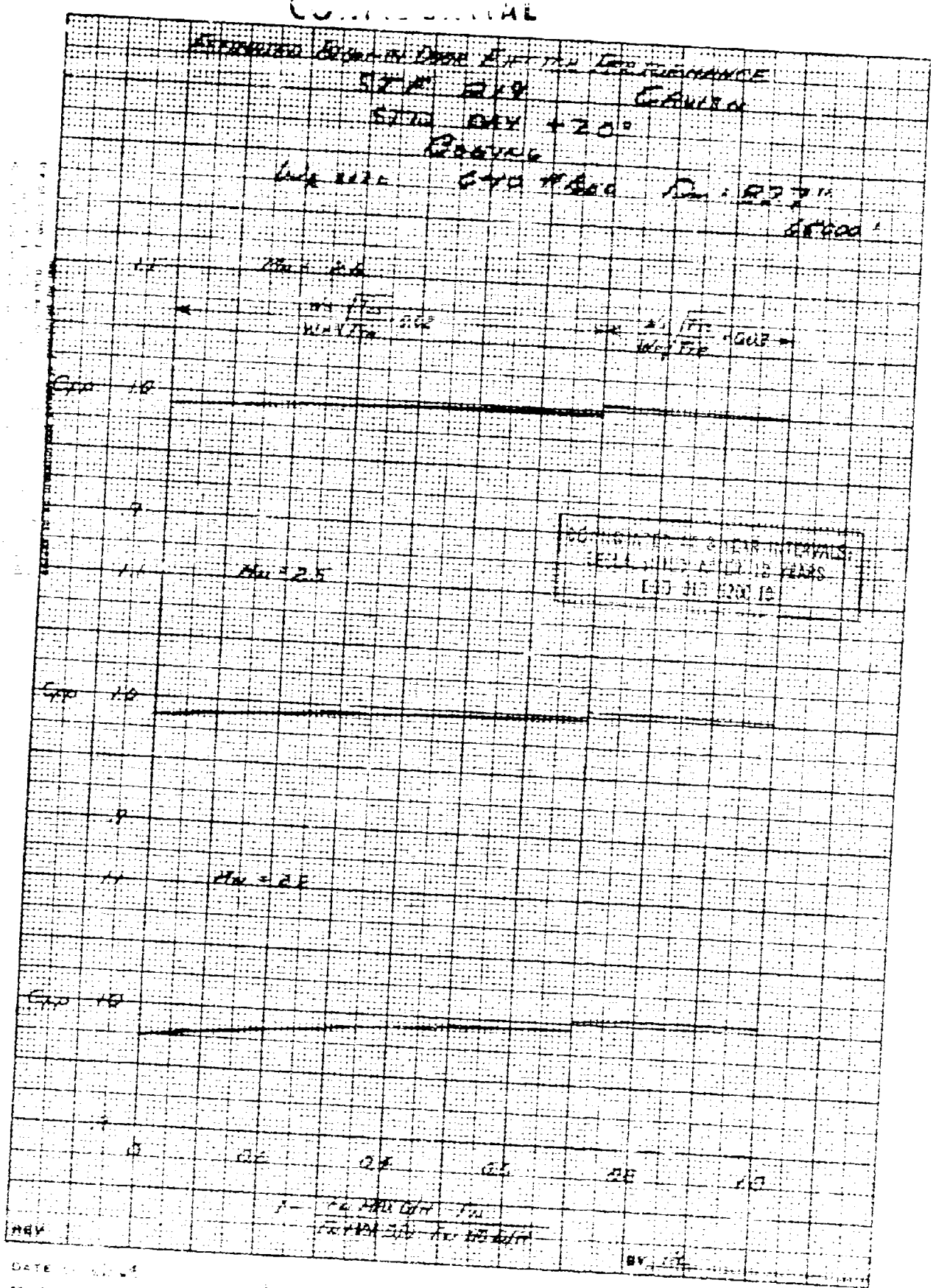


PRATT & WHITNEY AIRCRAFT

CONFIDENTIAL





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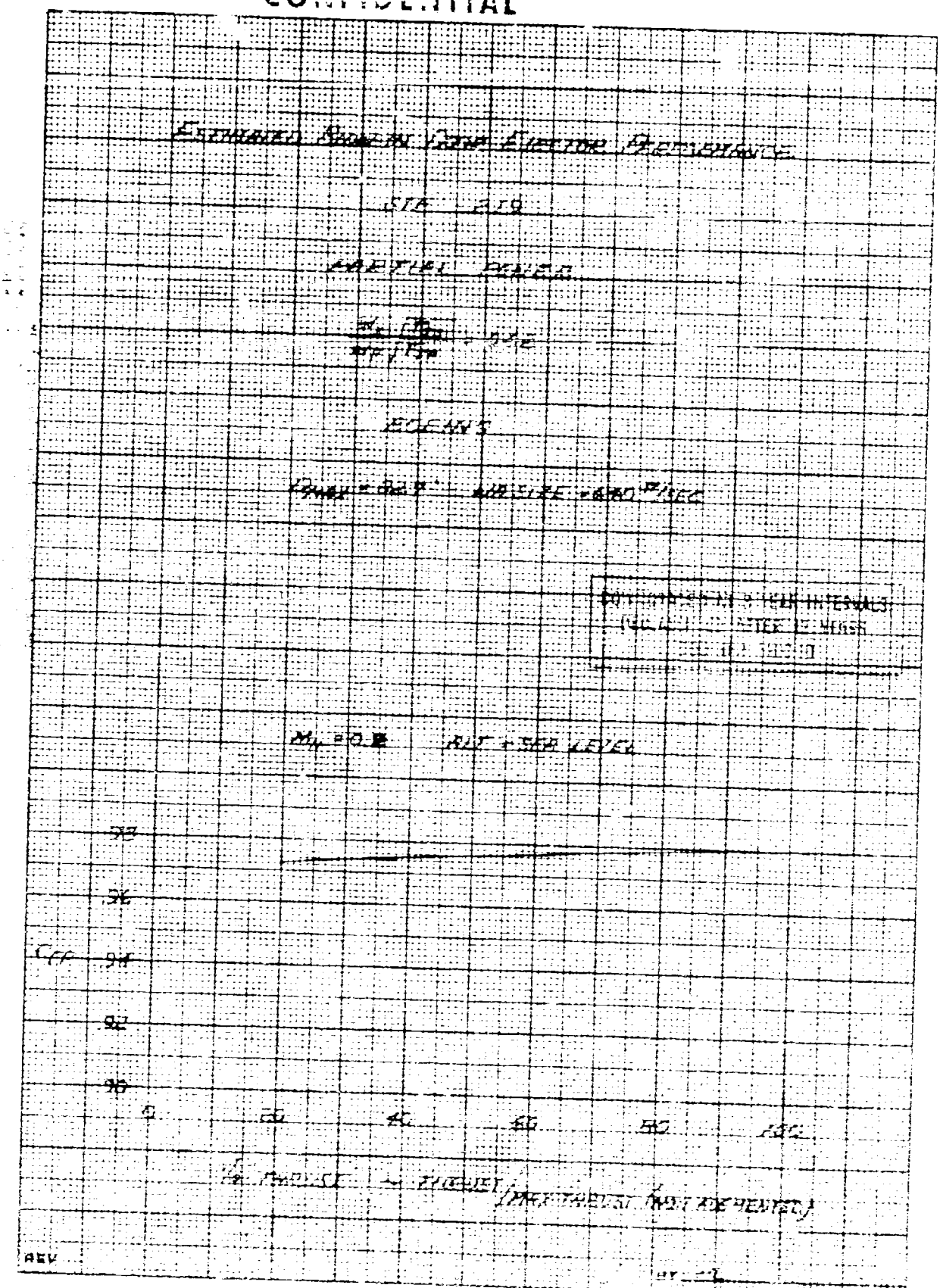

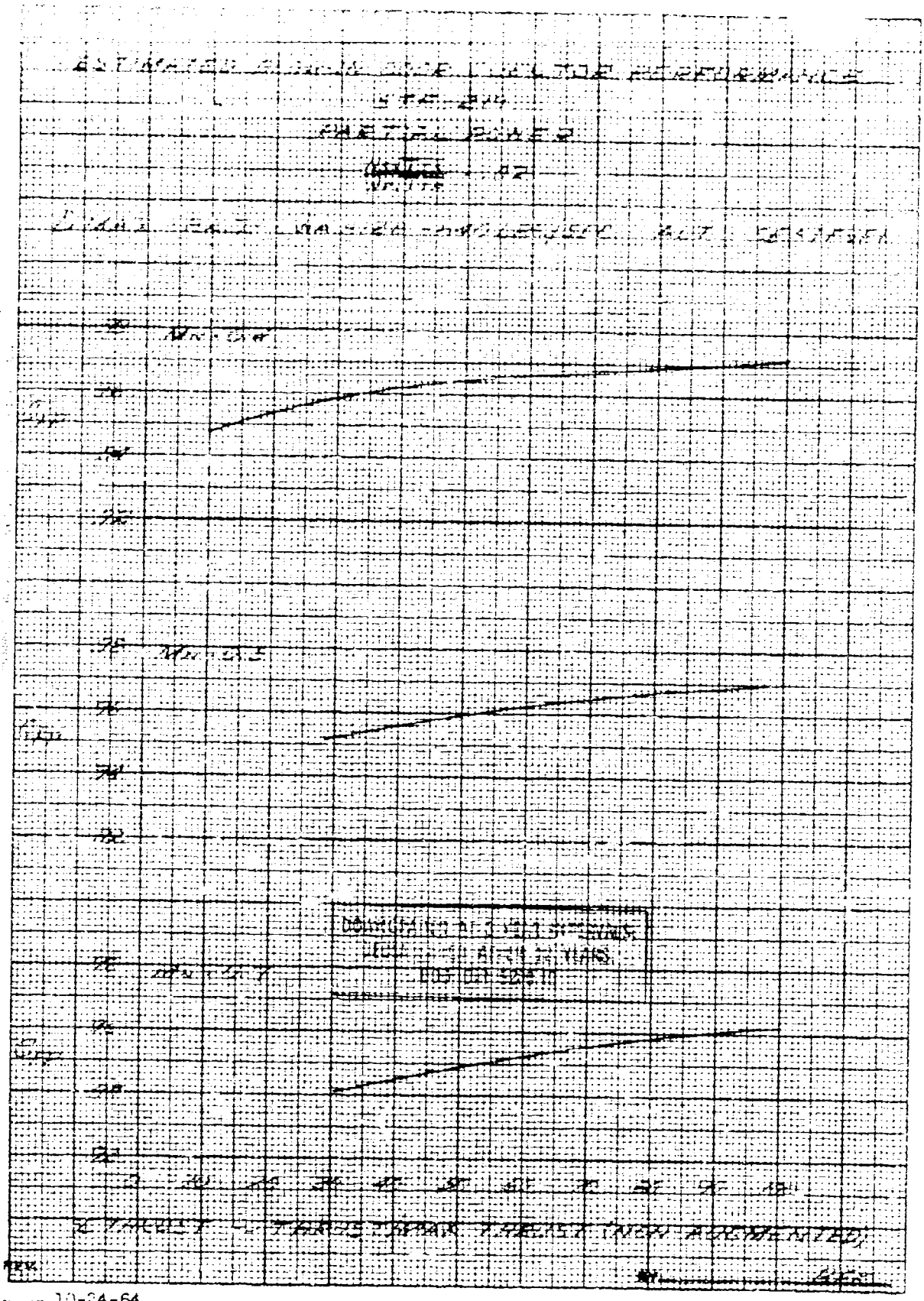

DATE 10-24-64

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PRATT & WHITNEY AIRCRAFT

CURVE NO. [illegible]
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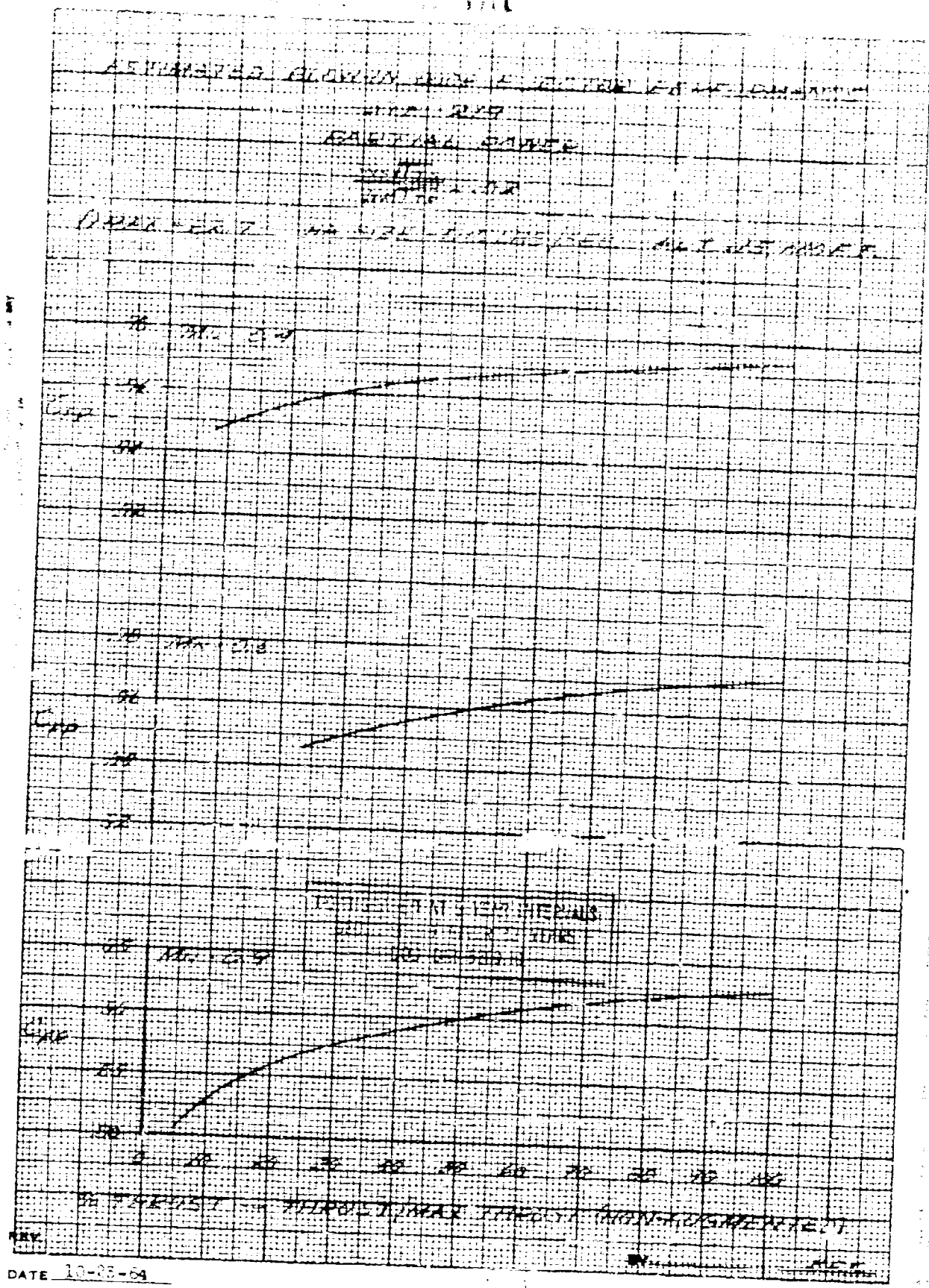
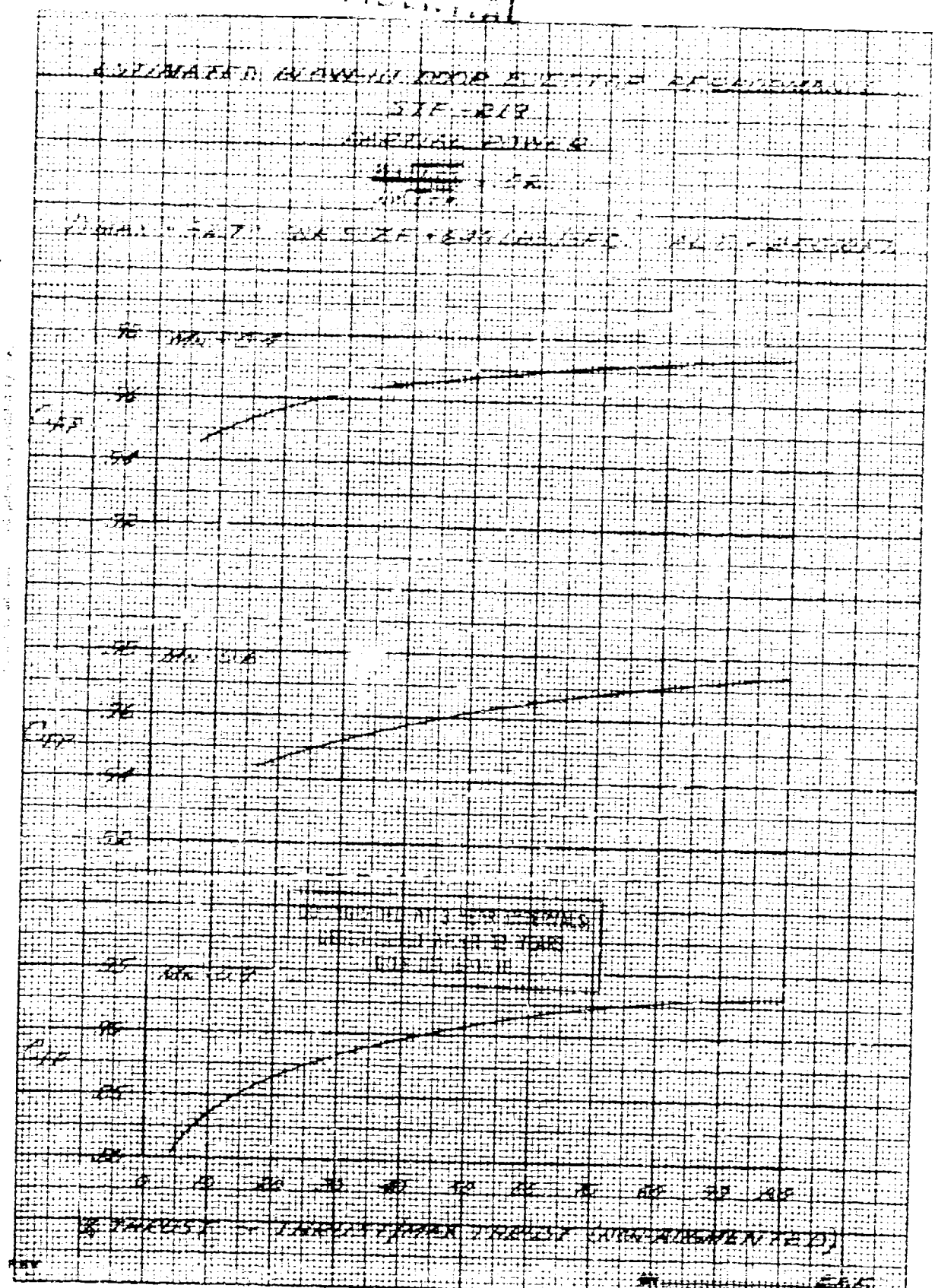


DATE 10-28-64

PWA FORM 3407 10-59

PRATT & WHITNEY AIRCRAFT

CURVE NO T-2688
Sheet 92



DATE 10-16-84

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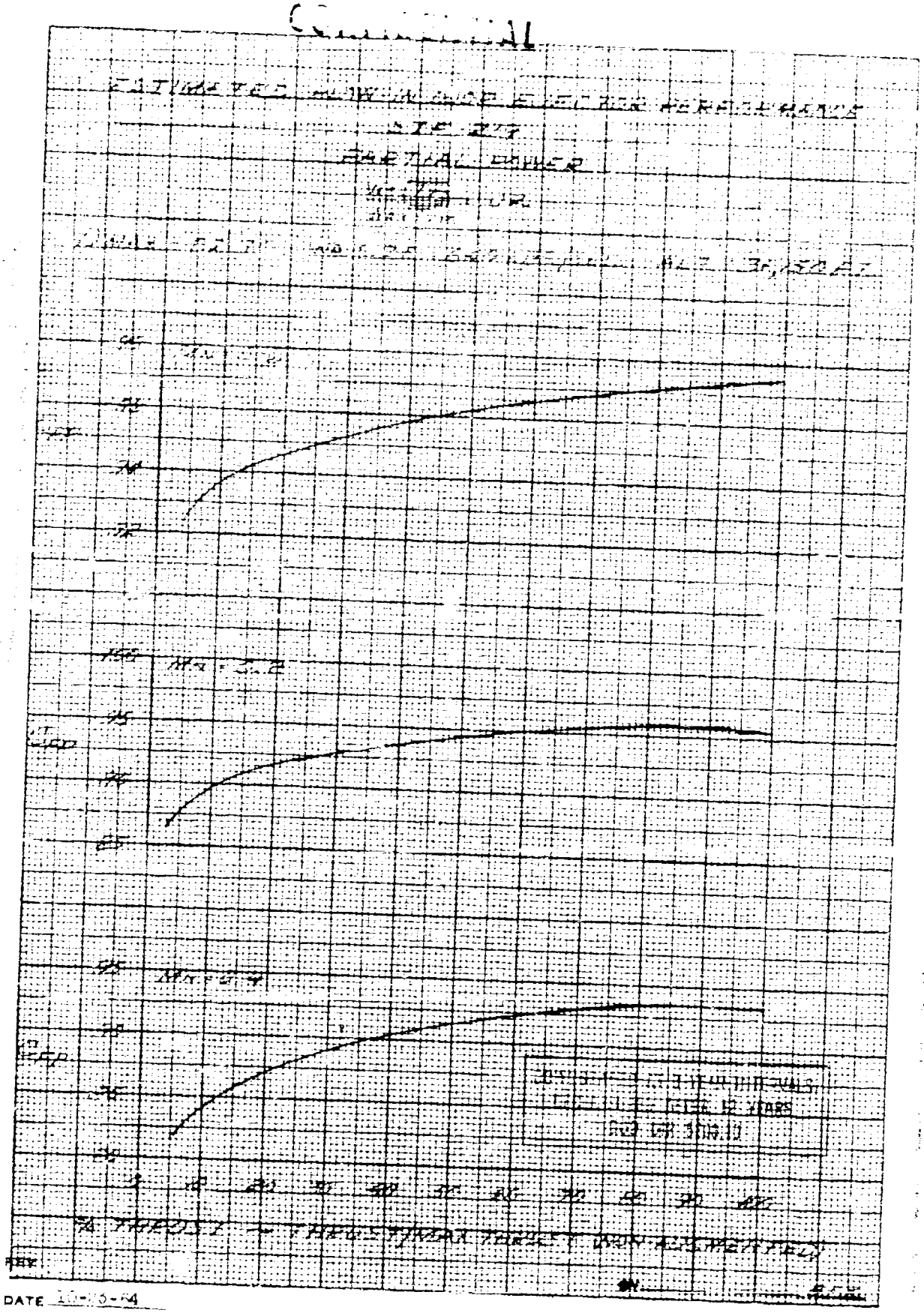
PRATT & WHITNEY AIRCRAFT

CURVE NO. T-1088

Sheet 33



DATE 10-15-74

PRATT & WHITNEY AIRCRAFT

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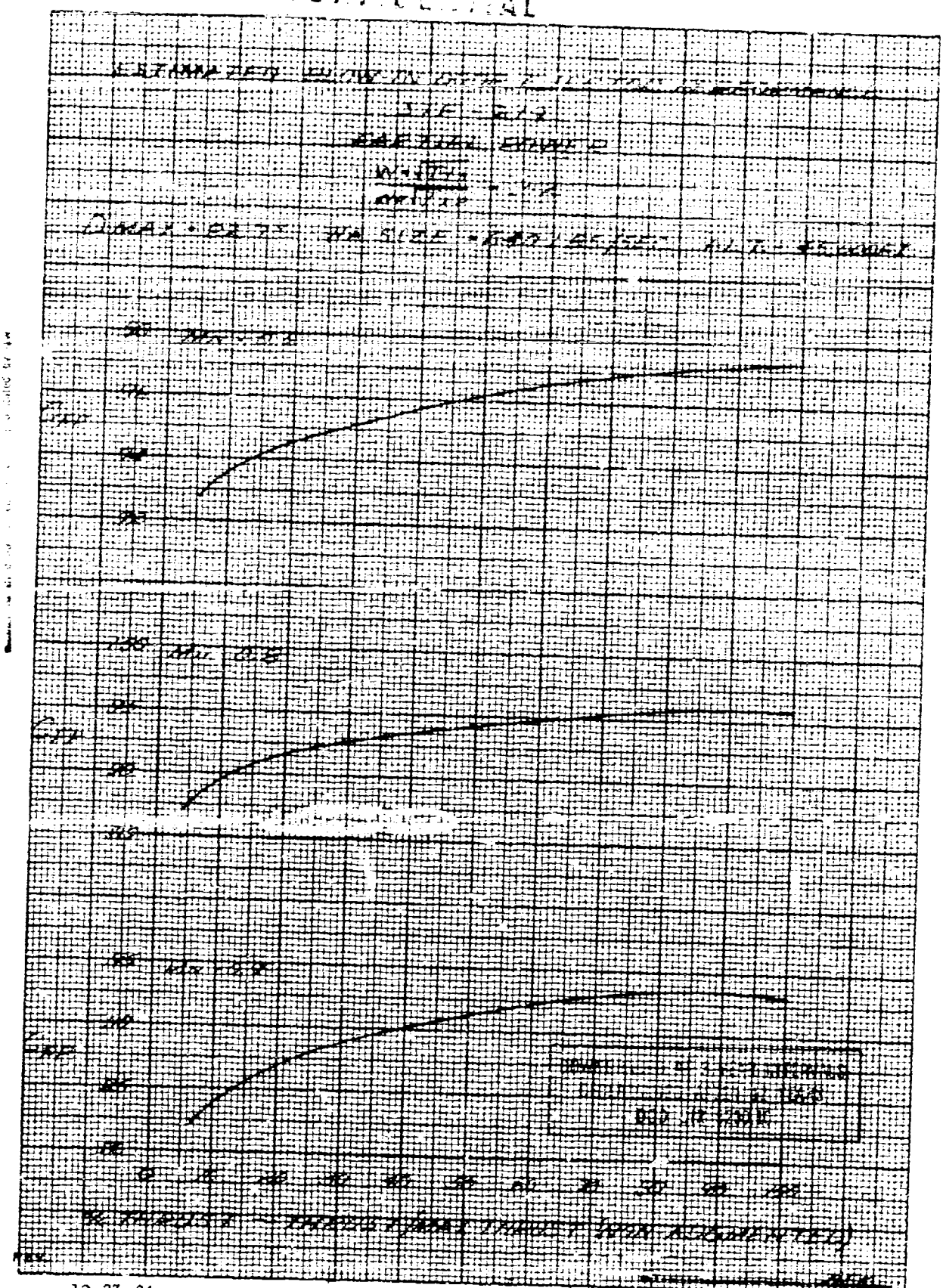
Sheet 14



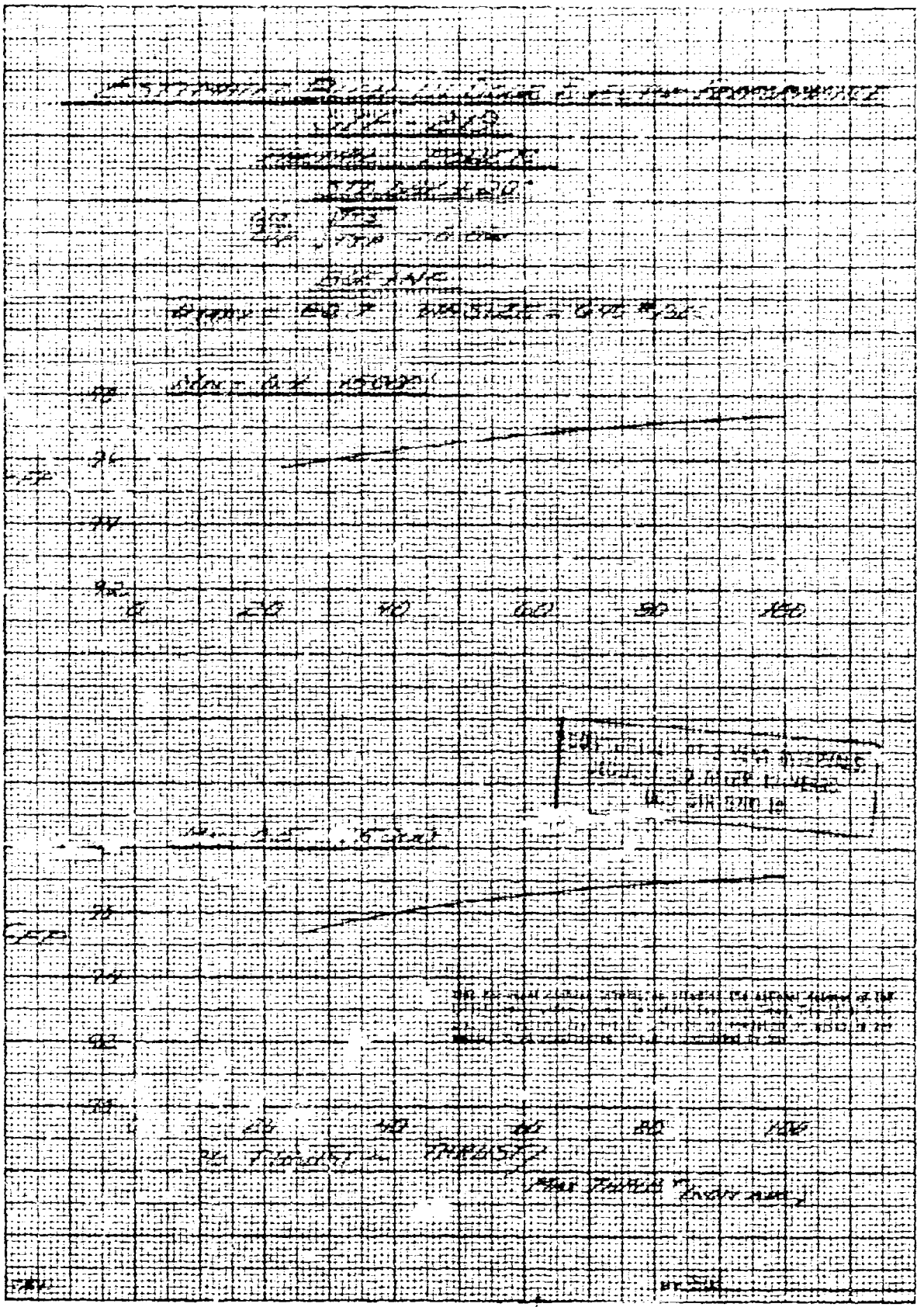
DATE 10-23-64

PWA FORM 5427 10-59

PRATT & WHITNEY AIRCRAFT

CURVE NO. T-1688
Sheet 95

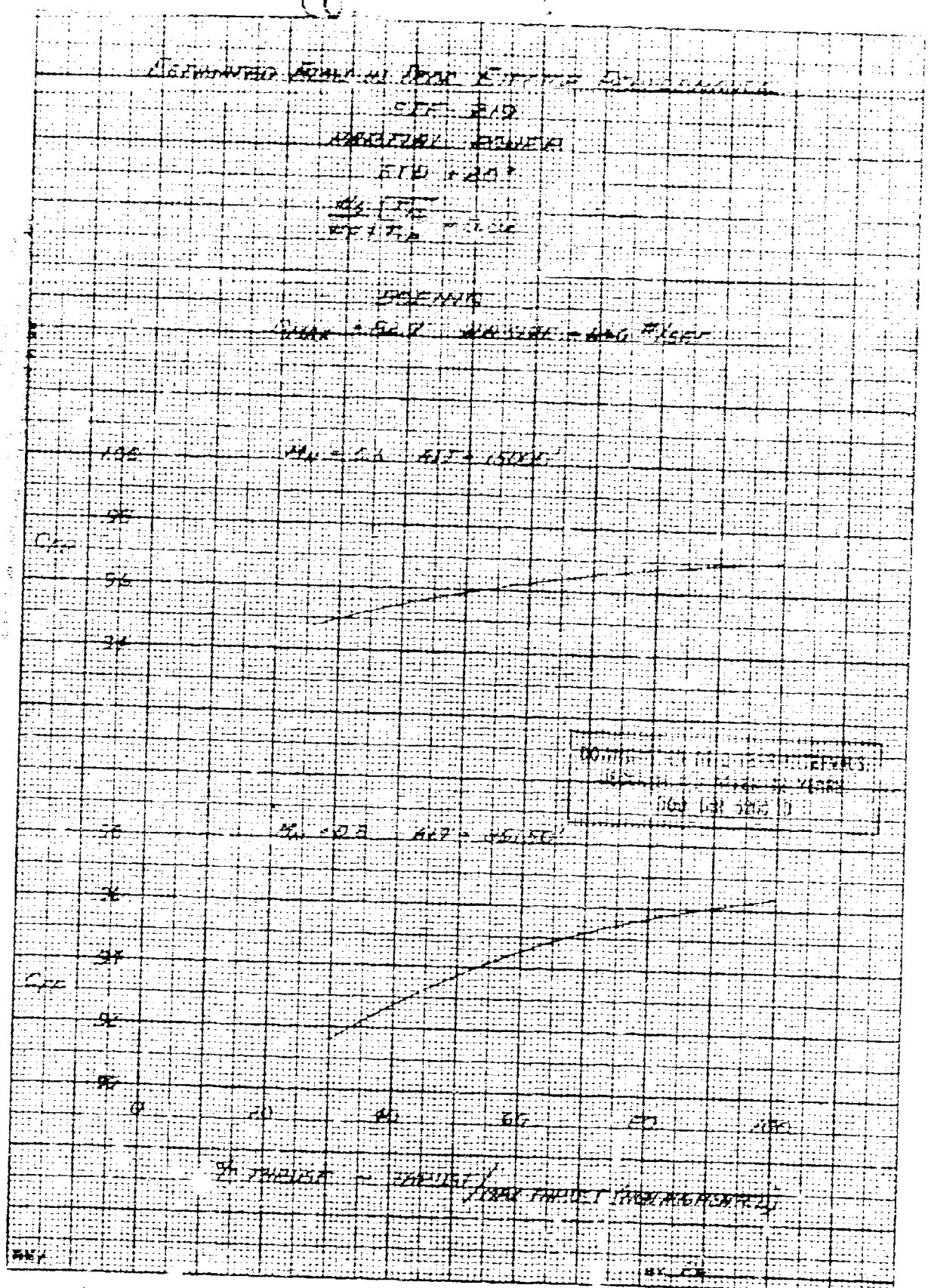
CONFIDENTIAL



DATE 6-22-64

PRATT & WHITNEY AIRCRAFT

CURVE NO T-1888
Sheet 96



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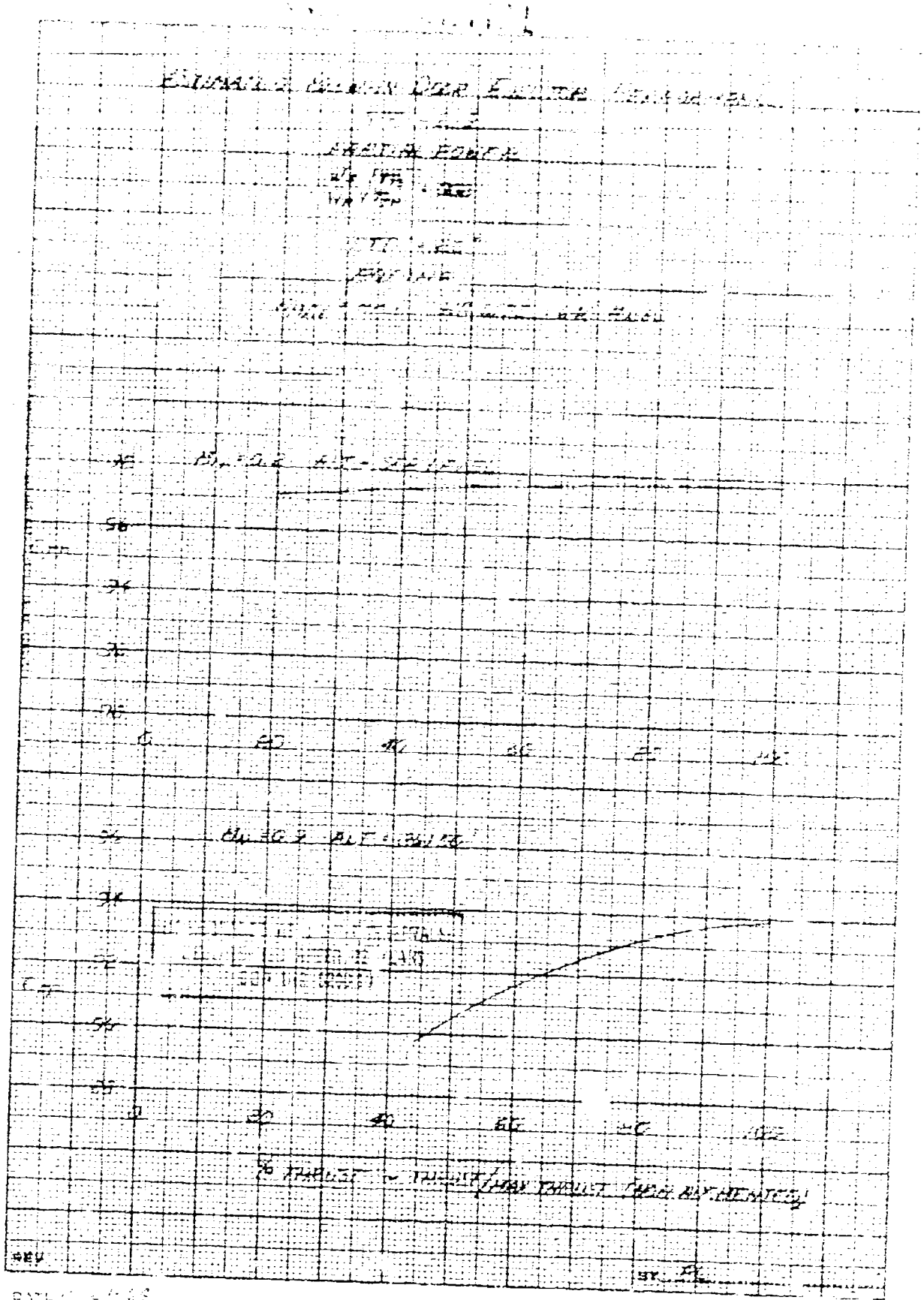
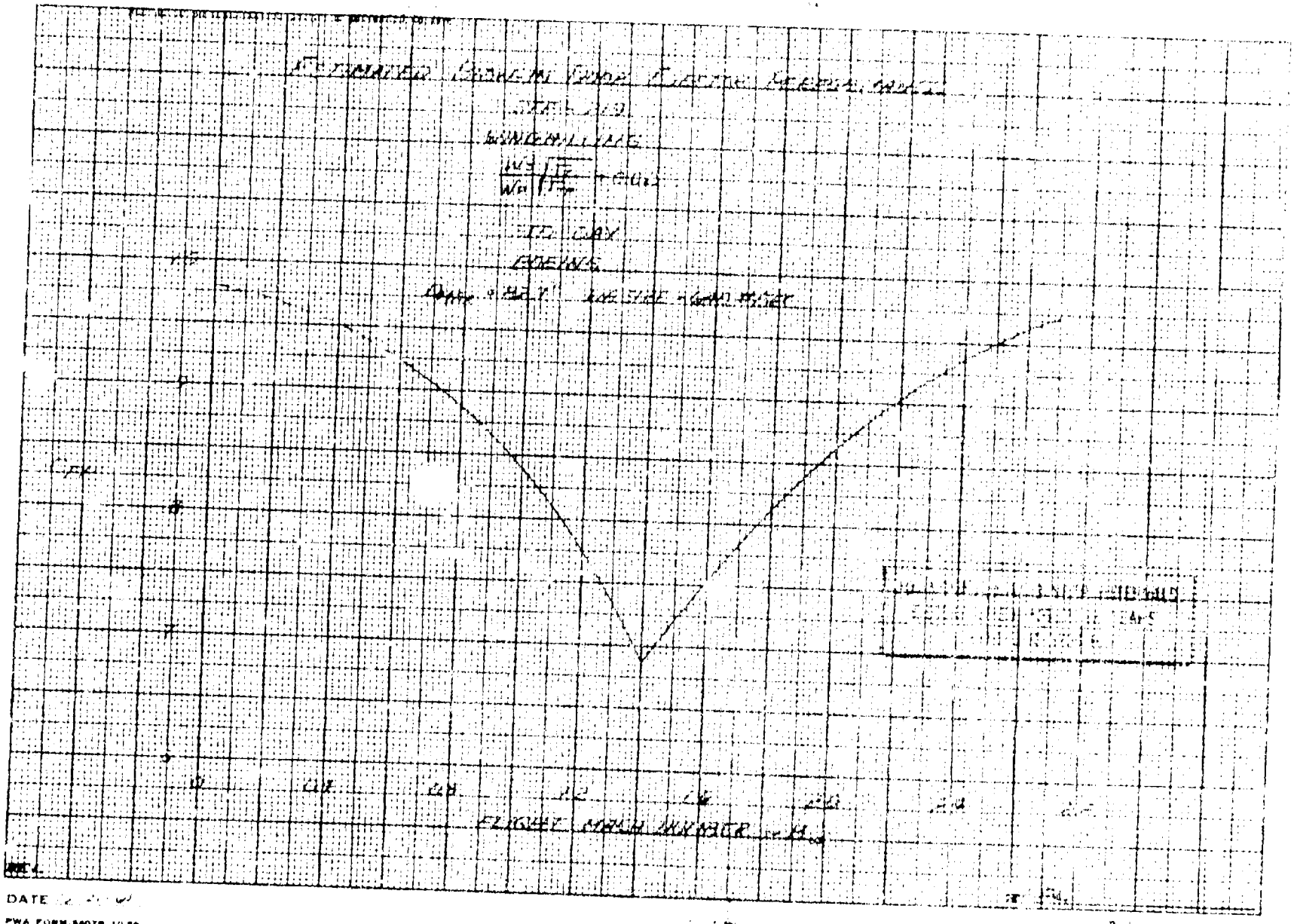
PRATT & WHITNEY AIRCRAFT

CURVE NO. T-1048

Sheet 37



PRATT & WHITNEY AIRCRAFT



DATE

PWA FORM 84078 10-80

PRATT & WHITNEY AIRCRAFT

CURVE NO.

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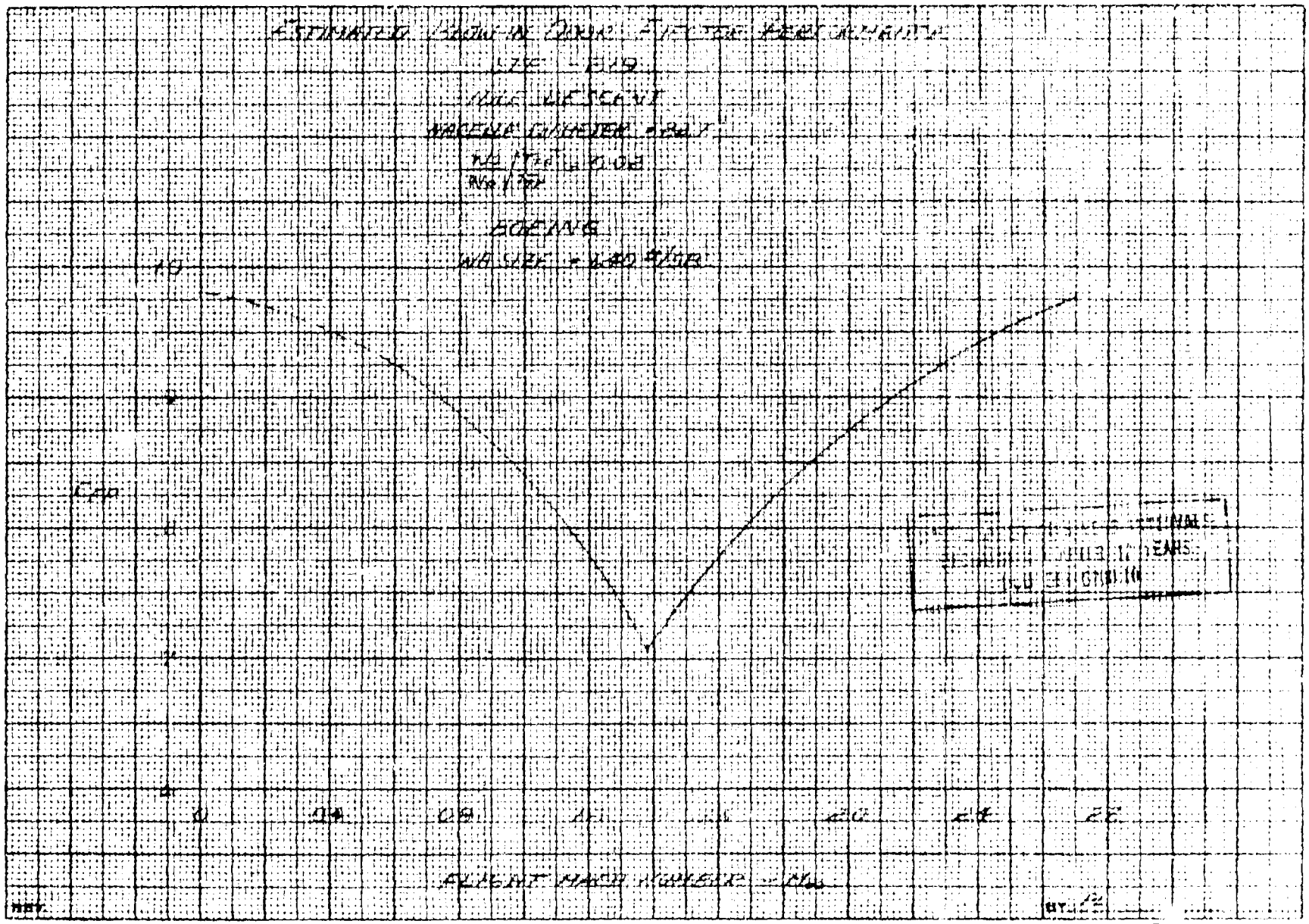

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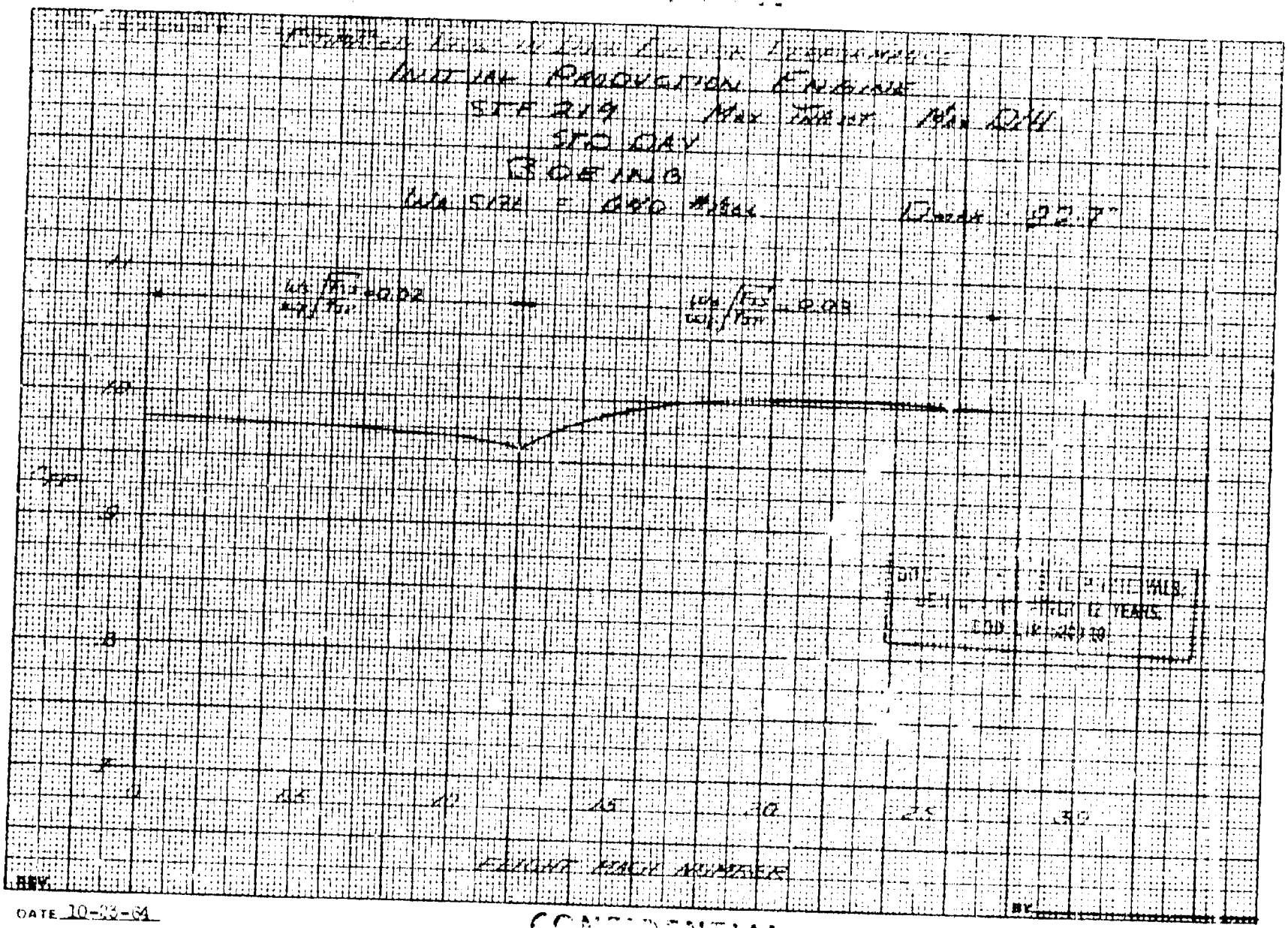


REV.

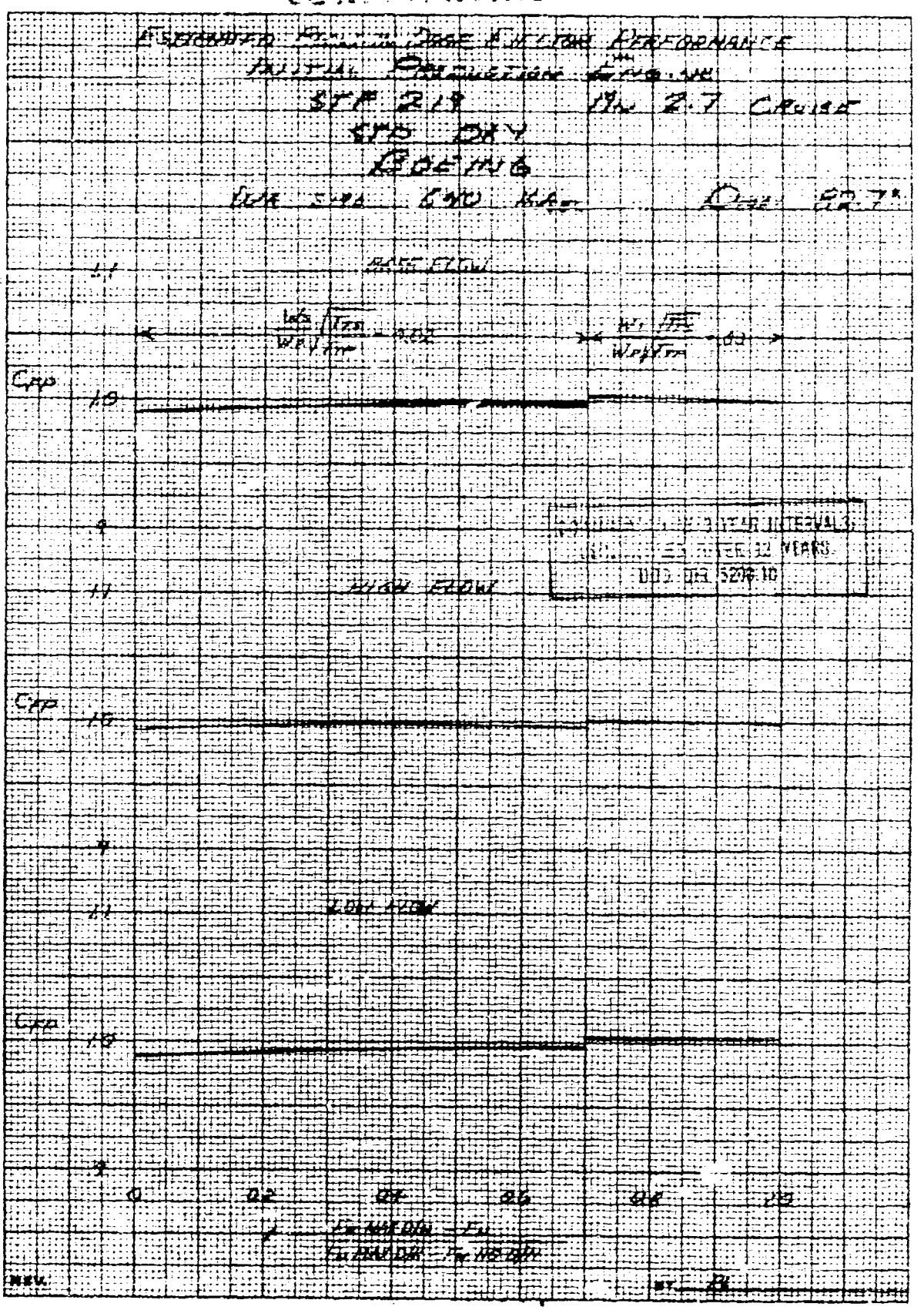
DATE 10-23-64

PWA FORM 34073 10-58

PRATT & WHITNEY AIRCRAFT

CURVE NO T-1966
Sheet 10

CONFIDENTIAL



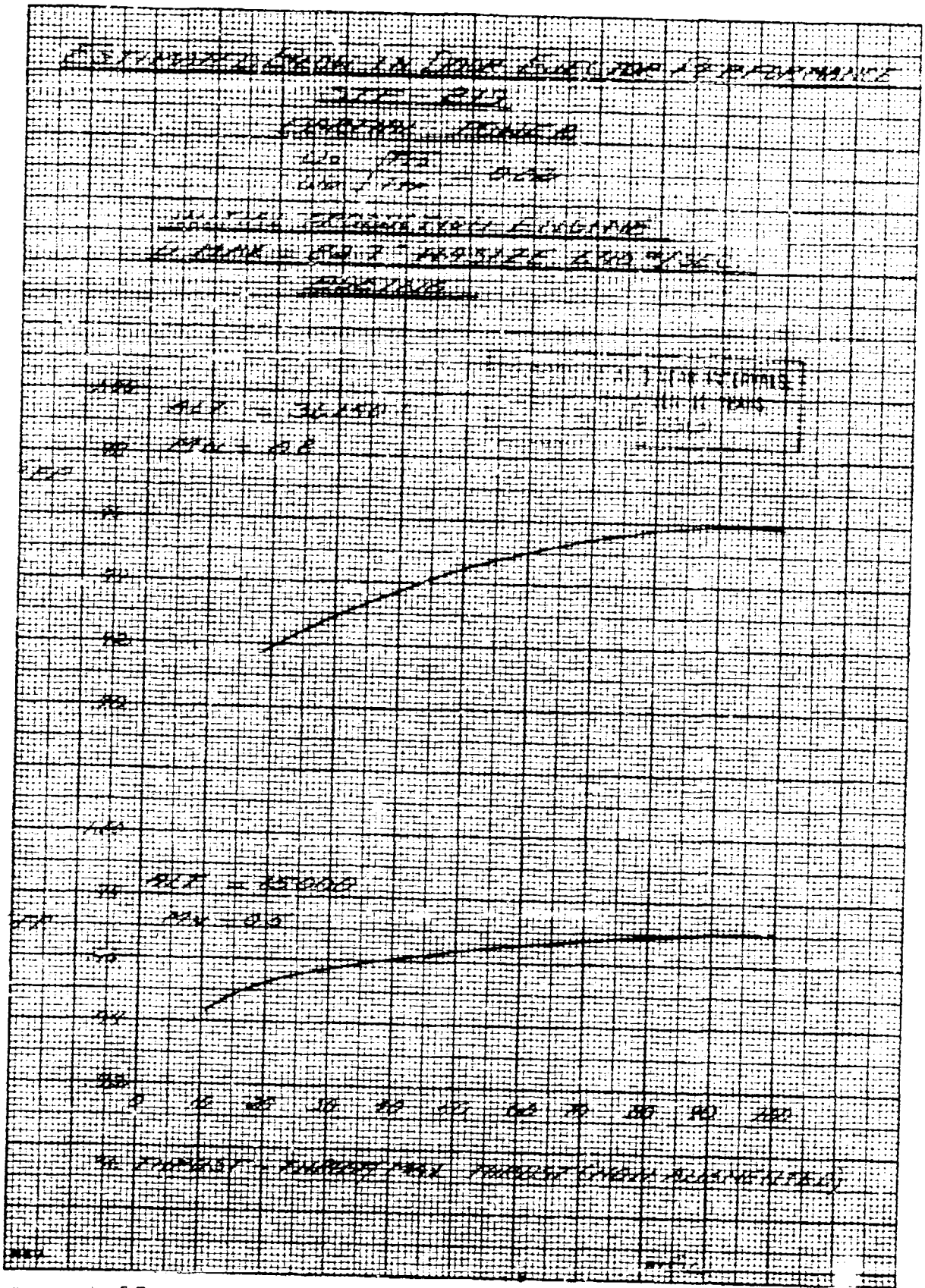
DATE 10-[illegible]-64

PWA FORM 2607 10 55

PRATT & WHITNEY AIRCRAFT

CURVE NO. T-1688

Sheet 102



DATE

PWA FORM 2407 10-58

PRATT & WHITNEY AIRCRAFT

CURVE NO T-1698
Sheet 10

CONFIDENTIAL

ACCESSORY DRIVE PADS

[illegible]	A	POWER TAKE OFF
[illegible]	B	TACHOMETER MOUNTING PAD (N$_1$) (AND 2000 S.H.P.)
[illegible]	C	TACHOMETER MOUNTING PAD (N$_2$) (AND 2000 S.H.P.)
[illegible]	D	HYDRAULIC PUMP (THIS 45 GPM)

FUEL DRAIN

15B, 17B	FD1	COMBUSTION CHAMBER FUEL DRAIN
16D, 21B	FD2	DUMP VALVE DRAIN (GAS GENERATOR)
14B, 17A	FD3	DUMP VALVE DRAIN (DUCT HEATER ZONE 1 AND ZONE 2)

FUEL FLOW

13A, 16E, 21E	F1	FUEL PUMP & DUCT HEATER PUMP SUPPLY INLET
14B, 16A	F2	MAIN FUEL FLOWMETER SUPPLY INLET
16B, 21B	F3	MAIN FUEL FLOWMETER SUPPLY OUTLET
19D, 21D	F4	DUCT HEATER FUEL FLOWMETER SUPPLY INLET
19D, 20D	F5	DUCT HEATER FUEL FLOWMETER SUPPLY OUTLET

FUEL PRESSURE

15C, 16C	FP1	FUEL PUMP INLET PRESSURE
14B, 17B	FP2	CHECK VALVE FUEL PRESSURE
15B, 16B	FP3	FUEL FILTER PRESSURE CONN (ELECTRICAL)

FUEL VENT

15C, 16C	FV1	FUEL PUMP OUTLET VENT

FUEL TEMPERATURE

[illegible]	FT	FUEL INLET TEMP

OIL BREATHER

13D, 15D	LB1	MAIN OIL OVERBOARD BREATHER

OIL DRAIN

19D, 21D	LD1	OIL TANK DRAIN
19D, 20D	LD2	OIL TANK OVERFLOW DRAIN
[illegible]	LD3	OIL CUP OVERFLOW DRAIN
[illegible]	LD4	GEARBOX MAIN OIL DRAIN
[illegible]	LD5	OIL STRAINER DRAIN

OIL FLOW

19D, 21D	L1	OIL TANK REMOTE FILLER
19D, 21D	L2	OIL TANK MANUAL FILL

OIL PRESSURE

14E, 19E	LP1	PRESSURE FOR TRANSMITTER
[illegible]	LP2	OIL FILTER INLET PRESSURE — PROVISION FOR PRESSURE DIFFERENTIAL
[illegible]	LP3	OIL FILTER OUTLET PRESSURE

OIL TEMPERATURE

15E, 16E	LT1	MAIN OIL TEMP.

OIL VENT

15D, 16D	LV1	OIL PRESSURE TRANSMITTER VENT

SEAL DRAIN

14D, 15D	SD1	FUEL CONTROL SEAL DRAIN
14C, 19C	SD2	FUEL PUMP SEAL DRAIN
19F, 19F	SD3	HYDRAULIC PUMP SEAL DRAIN
18D, 20D	SD4	DUCT HEATER FUEL PUMP SEAL DRAIN

TEMPERATURE SENSING

18L, 21C	TT7	TURBINE EXIT TEMP. (AVG)
19F, 21C	ITT7	TURBINE EXIT TEMP. (INDIVIDUAL)

PRESSURE SENSING

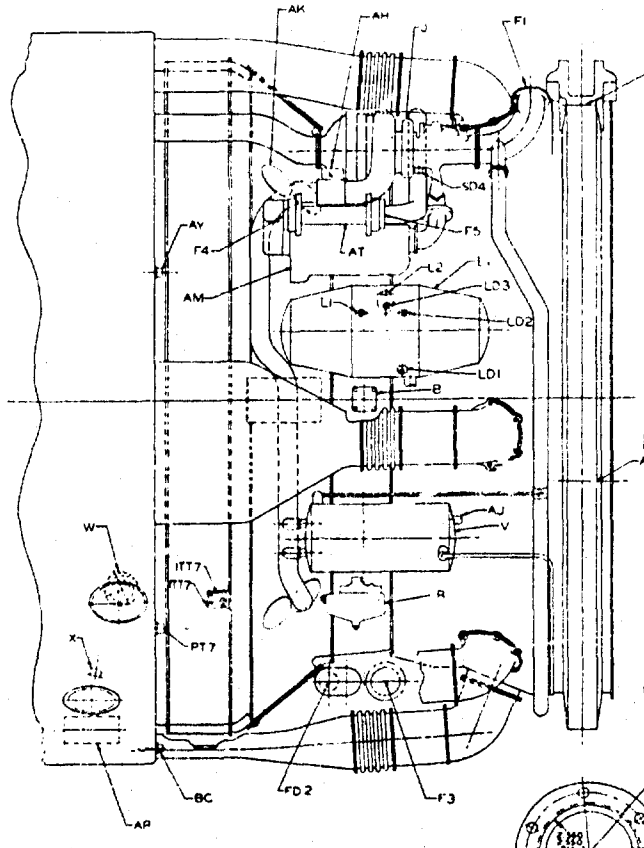
19B, 21B	PT7	TURBINE EXIT PRESSURE

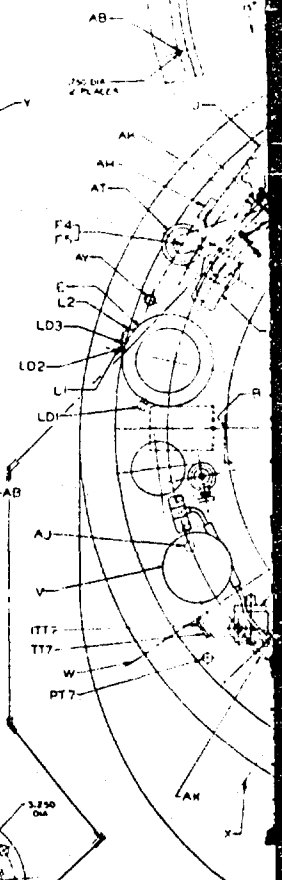
MISCELLANEOUS

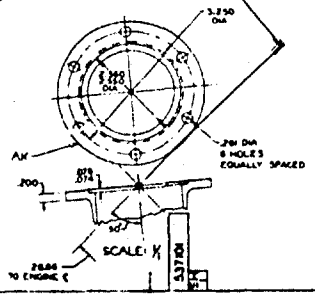
19D, 20D	E	OIL TANK
15B, 19C	F	GAS GENERATOR FUEL PUMP
[illegible]	G	FUEL PUMP FUEL FILTER (GAS GENERATOR FUEL)
[illegible]	H	FUEL PUMP FUEL STRAINER (MIN SPACE FOR REMOVAL)
[illegible]	J	DUCT HEATER FUEL PUMP
13C, 15B	K	HYDRAULIC PUMP
13C, 15C	L	OIL PUMP
13C, 15C	M	OIL FILTER
14E, 19E	N	FUEL-OIL COOLER (GAS GENERATOR FUEL)
19C, 19D	P	GEARBOX
18F, 21B	R	AUTOMATIC RESTART SWITCH
13D, 15D	S	[illegible] PRESSURIZING VALVE
[illegible]	T	HIGH PRESSURE BLEED PAD
15D, 19D	U	FUEL & AUGMENTATION CONTROL
19B, 20C	V	EXCITER
13B, 16A, 22K	W	IGNITER PLUG-ENGINE (MIN SPACE FOR REMOVAL)
13B, 19A, 22B	X	IGNITER PLUG-DUCT (MIN SPACE FOR REMOVAL)
15B, 16B	Y	ENGINE FRONT MOUNTING PROVISIONS
20C, 21C, 22E	Z	ENGINE REAR MOUNTING PROVISIONS
13D, 15D	AA	FUEL RETURN TO SUPPLEMENTARY COOLING
15B, 15B	AB	GROUND HANDLING HOLES (FRONT MOUNT)
19A	AC	GROUND HANDLING AREA (REAR)
15D, 19D	AD	POWER CONTROL LEVER (90° ANGLE OF TRAVEL)
15D, 16E	AE	SHUT-OFF LEVER (90° ANGLE OF TRAVEL)
15D, 16E	AF	AFTERBURN CONTROL LEVER (90° ANGLE OF TRAVEL)
18D, 18E	AG	CRUISE AIRFLOW CONTROL LEVER (90° ANGLE OF TRAVEL)
[illegible]	AH	AIR TURBINE VALVE DUCT HEATER FUEL PUMP
18C, 20C	AJ	IGNITION EXCITER ELECTRICAL CONN.
19D, 20A, 20C	AK	THERMAL ANTI-ICING PAD
15D, 16D	AL	AERODYNAMIC BRAKE CONTROL AIR SUPPLY CONN.
18D, 21D	AM	FUEL-OIL COOLER (DUCT HEATER FUEL)
14D, 16D	AN	DUCT NOZZLE POSITION FEEDBACK

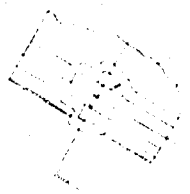
MISCELLANEOUS

13A, 16B	AP	CHECK & DUMP VALVE (DUCT HEATER - ZONE 1)
16B, 21B	AR	CHECK & DUMP VALVE (DUCT HEATER - ZONE 2)
14B, 17B	AS	GAS GENERATOR FUEL FLOWMETER MOUNTING PROVISIONS
19D, 21D	AT	DUCT HEATER FUEL FLOWMETER
14D, 19D	AU	FUEL CONTROL FUEL FILTER (MIN SPACE REQD FOR REMOVAL)
14B, 17B	AV	CHECK AND DUMP VALVE (GAS GENERATOR FUEL)
16B, 17B	AW	CHECK AND DUMP VALVE FILTER (MIN SPACE FOR REMOVAL)
14D, 16D	AX	NOZZLE POSITION INDICATOR MOUNTING PROVISIONS
19D, 21D	AY	REVERSER POSITION INDICATOR CONN. (ELECTRICAL)
12D	AZ	THERMOSTATE FUEL BY-PASS VALVE
15D	BA	DUCT NOZZLE CONTROL FUEL RETURN FILTER
5A, 12D, 15C	BB	VIBRATION MOUNT (SPACE RESERVED FOR VIBRATION PICKUP PROVIDED BY AIRFRAME MFR.)
18A, 21B	BC	ACCESSORIES OVERBOARD DRAIN CONN









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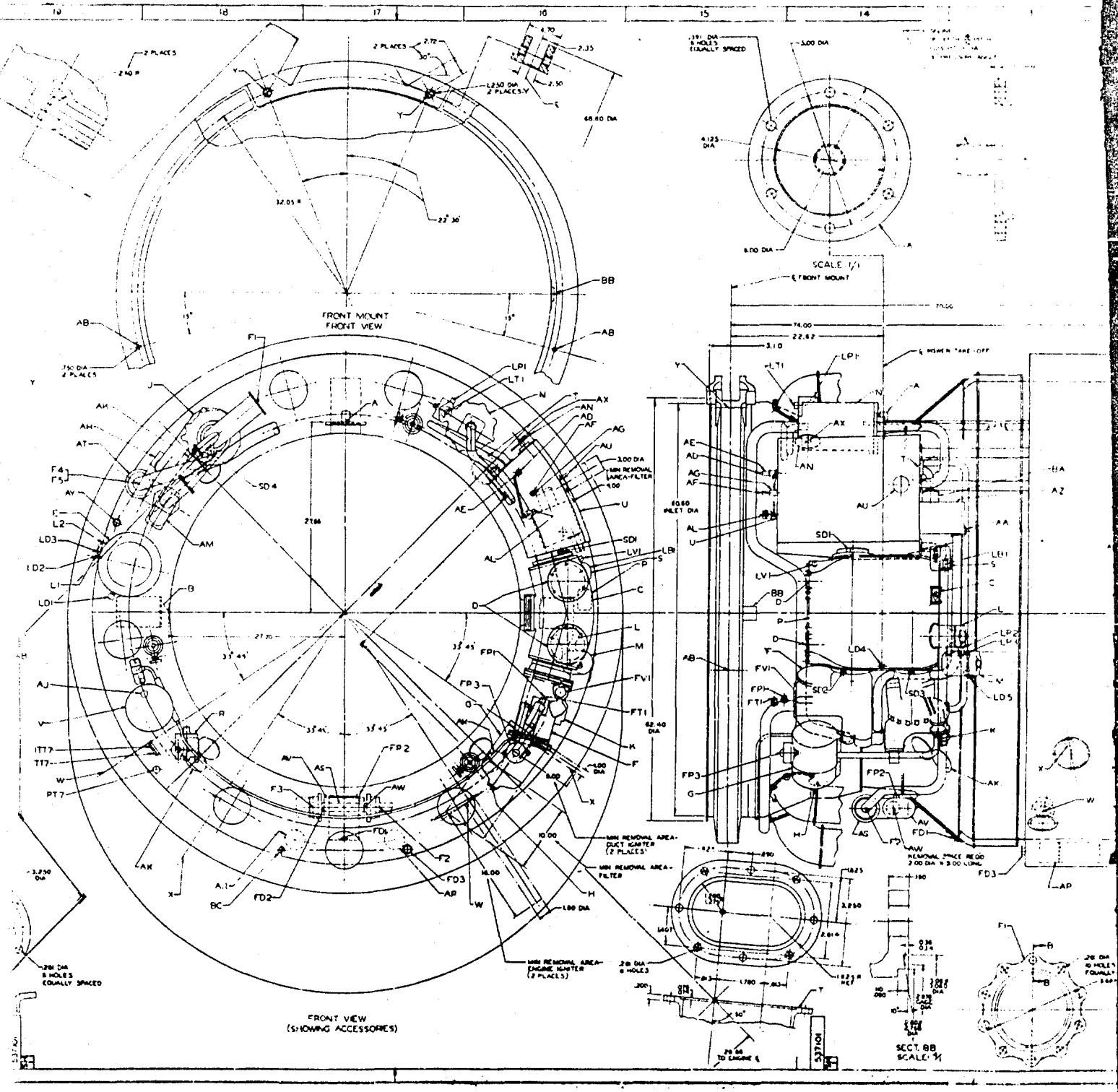

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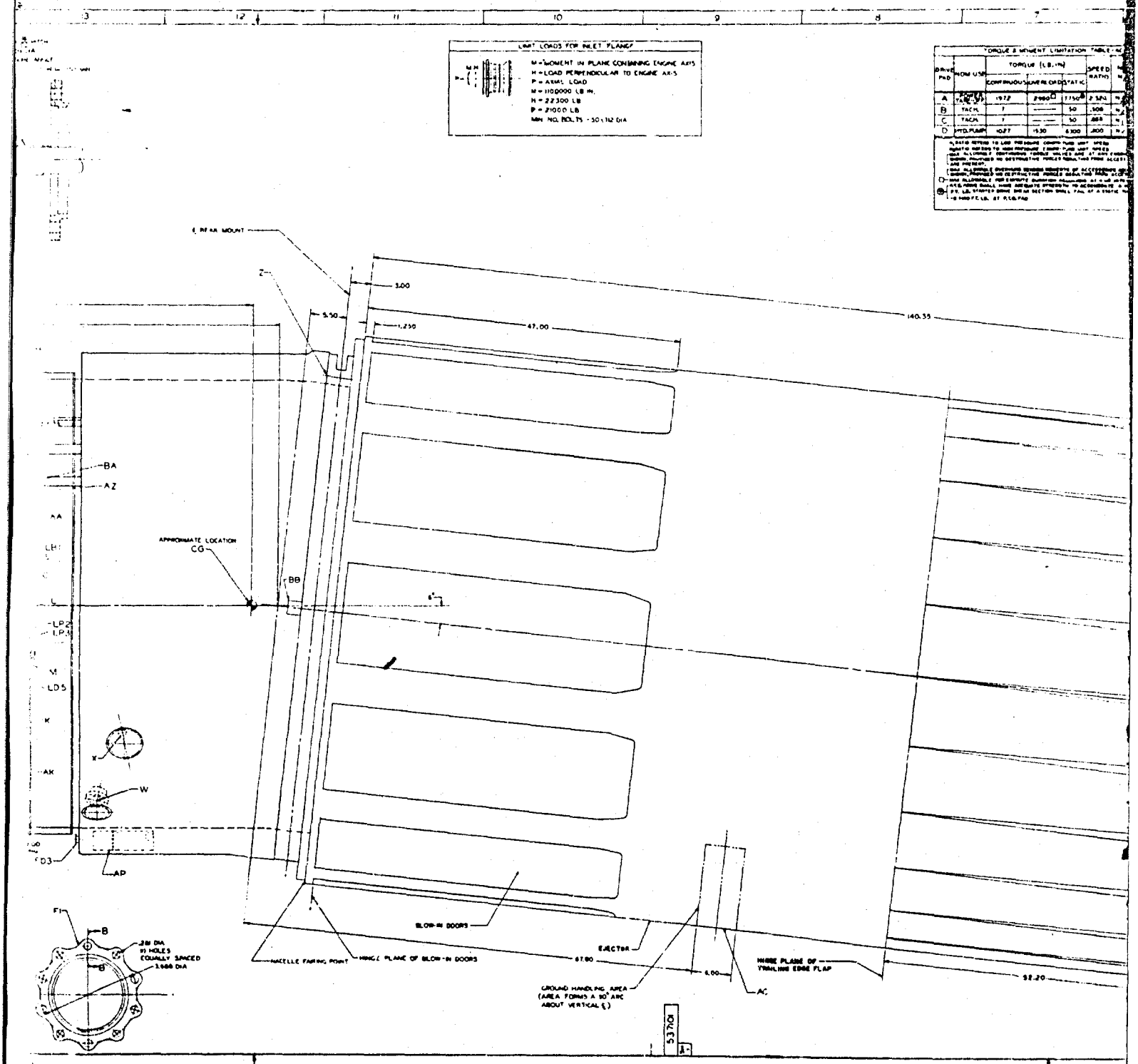

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LIMITATION TABLE - ACCESS DRIVES					
LOAD (LB. IN.)		SPEED RATIO	N_1 / N_2	ROTATION (FACING ENGINE PAD)	IG OVERRUNNING MOMENT (LB. IN.)
STATIC					
80	7730	2.526	N_2	CCW	———
—	19	.508	N_2	CCW	———
—	50	.288	N_1	CCW	———
70	8300	.800		CW	———

39.70 R
22° 30'
V_2
S_2
15°
S_1
27°
V_1
T_1
℄ REAR MOUNT
℄ FRONT MOUNT
32.55 R

MOUNT LOADING

39.70R
22° 30'
V_2
S_2
27°
V_1
S_1
15°
T_1

ALTERNATE MOUNT LOADING

1g	80000 LBS
1g	76300 LBS
1g	73000 LBS
1g	76000 LBS
1g	19400 LBS
1g	82500 LBS

(1) THESE LOADS REPRESENT THE MAX LOADS AT EACH LOCATION AND ARE NOT COMPATIBLE. THEY DO NOT OCCUR SIMULTANEOUSLY.

.875 DIA
2 HOLES - Z
Z
Z
.350
.150
.175
35.85 R
18°
62.80 DIA
58
74.20 DIA

VIEW OF REAR MOUNT RING
REAR VIEW

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