

FLIGHT ENGINEERS CHECK SHEET  
OPERATIONS - - FLIGHT SECTION 3

ENGINEER

RANK

A.S.N.

CREW NO.

INST. ENGR.

RANK

DATE

The following is deemed vital to safety of flight and will be studied and thoroughly understood, together with a demonstrated working knowledge, by all flight engineers assigned or attached to this section.

A. Electrical Systems;

1. Voltage regulators - How to adjust. ( ).
2. Treatment of battery solenoid in case of sticking. ( ).
3. Location of fuses and current limiters. ( ).
4. How to operate A.P.U. ~~where and how to~~ correctly. ( ).
  - (A) 2 Cyl. A.P.U. where and how to use switches. ( ).
  - (B) Correct use of Equalizer. ( ).
5. How to change amplifiers for Superchargers. ( ).

B. Hydraulics:

1. Use of open center system ( star valve ) in case #3 engine goes out. ( )
  - (A) Landing Gear System. ( ).
  - (B) Flap System. ( ).
  - (C) Bomb Door System. ( ).
  - (D) Brake System. ( ).
2. Use of Emergency Systems. ( ).
  - (A) Use of Hand Pump. ( ).
  - (B) Use of Hand Crank. ( ).
  - (C) Use of Emergency Valve on Tank. ( ).
  - (D) Interchangeable Parts. ( ).
    - (1) Aux Pump from Tail Turrett. ( ).
    - (2) Pressure cut out switch from tail. ( ).
    - (3) Relief Valves - System. ( ).
    - (4) Changing - 7 Piston Motor to Eng. Hyd. Pump. ( ).

C. Fuel Systems:

1. How to keep Eng. running if tank is shot out. ( ).
2. How to use fuel out of tank if Engine is shot out. ( ).
3. How to transfer - General. ( ).
4. How to use from Aux. Colls. ( ).

D. Deicer System:

1. Location of Motor. ( ).
2. General. ( ).

Tudor 885-

15 - 330 25  
 25 - 330 25  
 25 - 330 30

**E. Heater Systems:**

1. Location of Shut off Valves. ( ).
2. Location of Heaters. ( ).
3. How and when to turn heaters on. ( ).

**F. General:**

**1. Know limits of Operations:**

- (A) R.P.M. - 2550 to 2700 - take off. ( ).
- (B) M.P. - 100 Octane 46" Hg. - 91 Octane 43" Hg. - Take off. ( ).
- (C) Cyl. Temp. - Don't exceed 260 Degs. over 1 hr. - Flying. ( ).  
 - Don't exceed 232 Degs. - Ground Oper. ( ).
- (D) Oil Press. - 60 to 100 lbs. - don't exceed 120. ( ).
- (E) Oil Temp. - 75 Desired - Range 60 - 90. ( ).
- (F) Fuel Press. - Cocc60 - 16 - 18; Stromberg 14 - 16. ( ).

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Inst. Eng.