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GENERAL PREFLIGHT Checklist

1. Weather and NOTAMs
2. Flight Plan
 - g. Fuel Requirements/BINGO data
 - h. Weight and Balance
 - i. TOLD Card
 - j. Takeoff & Landing Data
 - k. Takeoff: Type/Short/Wake Turbulence
 - h. Special Local Procedures & Conditions
 - i. Departure: Routing/Altitude/Airspeed
3. Navigation Charts and Tools
4. Pilot Required Items
 - Pilot Certificate
 - Medical
 - CAP ID
 - 101 Card
5. I. M. S.A.F.E. Pilot Free Of—
 - I. — Illness
 - M. — Medication
 - S. — Stress
 - A. — Alcohol
 - F. — Fatigue
 - E. — Emotion

Mission Briefing Guide

1. GENERAL

- a. Crew Introductions, Documents (Cap ID and 101 card)
- b. Crew Status (medical status, rest, nutrition)
- c. Time Hack, Time Management
- g. Weather Conditions & Forecast

2. MISSION

- a. Mission Number/Sortie Length/Aircraft Commander
- b. Target
- c. Available Information
- d. AFRCC Reports/NTAPs
- e. Equipment Available
- f. Search Areas/Altitudes
- g. Profile/Type Search
- h. Air-To-Ground Coordination
- d. Call Sign/Squawk/Flight Plan
- l. Departure: Routing/Altitude/Airspeed
- n. Recovery: Routing/Altitudes/Airspeeds/Approach
- f. Sign Out/Engine Start/Takeoff/Land Times

3. CREW COORDINATION

- a. Preflight Responsibilities
- b. Communications (wheels off, check ins, code words)
- c. Scanner Equipment / Duties (look, clear, scan log)
- d. Observer Equipment / Duties (clearing, radios, Ops log)
- e. Transfer of aircraft control
- f. Clearing: Obstacles, Terrain, WX, Traffic
- g. Responsibility of In-flight Checks
- h. Sterile Cockpit - within 5nm of airfield

4. EQUIPMENT

- a. Checklists
- b. Flight Pubs: charts, plates
- e. Headsets, Glasses, Seat Cushions,
- c. Survival Gear and Location
- d. Food & Water

5. EMERGENCY PROCEDURES

- a. Crew responsibilities during emergencies - fire / engine failure / departure / incapacitation
- b. Emergency ground egress
- c. Takeoff emergencies
- d. Physiological incident
- e. Bird strikes/Midair/Damaged Aircraft
- f. Emergency divert airfields

6. QUESTIONS?

Audio/Intercom Panel Preflight

1. Aircraft Avionics switch - On
2. Volume – Set to appropriate intercom volume level
3. Mode Switch – Set to All or see chart

Iso	- Only pilot hears FAA radios - Co-pilot hears Com3 - Co-pilot and passengers have intercom
All	- Everybody hears everything
Crew	- Pilot & copilot hear radios and intercom - Passengers have separate intercom

4. Audio Buttons – Press to light:
Com1 and/or Com2 - as required
Nav1 and/or Nav2 - as required
ICS - opens intercom between pilots
Com3 - activates CAP radio listening to pilot on split
Other buttons - as required
5. Transmit Select – 1/3 or 2/3 split
6. Transmit Light – Off
7. Swap Light – Off (switch on yoke)
8. DF audio – On (switch on right panel).

Cap Radio Preflight

1. OFF (Edit) – Leave in center position
2. BRIGHT - Push left or right to desired brightness
3. DISP – Set to ID
4. CHAN – Push left or right to select guard-1 channel
(See Channel Data Card)
5. MN knob – Adjust the volume of main channel
6. GD knob – Adjust the volume of the guard channel
7. SQ button – Press to open squelch, pull for normal
8. SCAN – Set to NORM
9. GD1/GD2 – Set for GD1 to monitor single (simplex) channel only.
Set for CD2 to monitor both channels (simplex and air-ground)
10. Radio Check – test transmit/receive with mission base

Cap Radio Operation

1. Set the SCAN switch to NORM and press push to talk (PTT) on yoke to transmit on guard-1 frequency.
2. Set the SCAN switch to GD TX and press the PTT on yoke to transmit on guard-2 frequency (typically air-ground).
Note: When guard-1 is a non-CAP freq, guard-2 is on simplex.

Channel Data Card

Chan	Display	Description	Tone
1	PRIM-SPX	Primary Simplex	
2	SMPX-125	Simplex	
3	SMPX1375	Simplex	
4	AIR/GRND	Simplex Air to Gnd	
5	RPTRS150	All Rptrs 1	
6	RPTRS125	All Rptrs 2	
7	AIR1-RPT	Airborne Rptr 1	
8	AIR2-RPT	Airborne Rptr 2	
9	SMPX750	Simplex	
10	SMPX900	Simplex	
11	ARMY-RPT	Army Mars Rptr	
12	AXN-RPTR	Alexandria Rptr	
13	BJI-RPTR	Bemidji Rptr	
14	BRD-RPTR	Brainerd Rptr	
15	BYRON-RP	Byron Rptr	
16	DLH-RPTR	Duluth Rptr	
17	LIS-RPTR	Lismore Rptr	
18	MAPLEGRV	Maple Grove Rptr	
19	MKT-RPTR	Mankato Rptr	
20	STC-RPTR	St. Cloud Rptr	
21	STP-RPTR	St. Paul Rptr	
22	TVF-RPTR	Thief River Falls Rptr	
23	VIR-RPTR	Virginia Rptr	
24	WLK-RPTR	Walker Rptr	
25	RSVDRPTR	Reserved Rptr	
26	PACK-895	Packet 1	
27	PACK-925	Packet 2	
28	MARINE06	Marine CH6	
29	MARINE16	Marine CH16	
30	MARINE23	Marine CH23	
31	MARINE83	Marine CH83	
32	VACANT	Vacant	
33	MNSEF	MNSEF	
34	YLWBRIEF	Yellow Air-Air	
35	GRN-BRIEF	Green Air-Air	
36	MIFC P-P	MIFC pt to pt	
37	EVELETH	Eveleth Repeater	
38	NORTHOME	Northome Repeater	
39	QUADNA	Quadna Repeater	
40	SUPERIOR	Superior Dispatch	
41	GND-HELI	Gnd to Gnd Heili base	
42	VACANT	Vacant	
43	VACANT	Vacant	

DF Pre-Flight Checklist

Dual Meter Models

1. Dial light – Turn on to ensure operation - Set as required.
2. Freq switch - Select 121.5 (121.775 for training)
3. Alarm toggle switch – Off (down)
4. DF Audio switch – Turn ON (located on panel)
5. Sensitivity knob - Maximum (Full clockwise)
6. Volume knob – Turn clockwise until hissing sound is heard
Strength meter - should read about 1/3 scale
DF meter - centers
7. Sensitivity knob - Minimum (Full counterclockwise)
Sound should decrease
Strength meter - should move to left edge
DF meter - should center
8. Sensitivity knob - Turn to maximum
9. Alarm toggle switch – On (Up)
Alarm light should flash
Light then goes out and audio ceases
10. Alarm toggle switch – Off (down) for missions
- On (up) for non-missions

Single Meter Models

1. Dial light – Turn on to ensure operation, then turn off.
2. Freq switch - Select 121.5 (121.775 for training)
3. Mode Switch - Select receive
4. DF Audio switch – Turn ON (located on panel)
5. Sensitivity knob - Maximum (Full clockwise)
6. Volume knob – Turn up until hissing sound is heard
Strength meter - Should read about 1/3 scale
7. Sensitivity knob - Minimum (Full counterclockwise)
Sound should decrease
Strength meter should move to left edge
8. Mode Switch - Turn to DF mode
Needle should center
9. Sensitivity knob - Turn maximum
10. Alarm switch – Turn alarm On
Alarm light should flash
Light then goes out and audio ceases
11. Alarm toggle switch – Off (down) for missions
- On (up) for non-missions

DF Signal Tracking

1. RECEIVE – Acquire a strong signal
2. HALF – Set Sensitivity for about ½ scale

3. TURN – 360 degree turn, note heading when needle centers
4. DF – Turn aircraft to center needle
5. CHECK – Turn to TELL – turn left or right
If DF needle turns with you, ELT is behind,
If DF needle turns against you, ELT is ahead
6. SHOOT – Note direction of ELT and fly that heading

NOTE: DF needle will flux when you cross target, and the signal strength may diminish before increasing again.

Required ELT Find Information

Manufacturer

Make

Model and serial #

Manufacture date

Battery type and expiration date

Time found and time of deactivation

Switch position on ELT when you found it
(ON, OFF, or ARM)

Reason for ELT activation

Model and tail number of airplane

Owner's name

Latitude & longitude (or street address)

Location on premises

GPS Pre-Flight Checklist

Pre-Flight Checklist

1. Press *MAP* button
2. Turn Large knob left to select Setup page
3. Turn Small knob left until the *SAR MAP* setting shows
4. If *SAR MAP* is *Off*, Press SAR smart-key to turn On
5. If *GRID TYPE*: not *US*, press *GRD* smart-key to set
6. Press *POS* smart-key to change POSITION to desired sectional map (*MSP* – Twin Cities, *GRB* – Green Bay, *OMA* – Omaha, etc)

Create Waypoint By US Grid

1. Press *NAV* button
2. Press *DB* smart-key
3. Turn Large knob right to *Create User Wpt by US Grid*
4. Press *ENTER*
5. Turn Small knob to enter number at flashing cursor
6. Turn Large knob right for next character
7. Press *ENTER* to save wpt

Fly Direct To US Grid Search Waypoint

1. Press *DIRECT* button
2. Turn Small knob to select *USER* waypoint
3. Turn Large knob to select next character
4. Turn Small knob to enter number at flashing cursor
5. Press *ENTER* to activate flight plan
6. Press *MAP* button

Parallel Track Offset

1. Press *NAV* button
2. Turn Large knob to select *Parallel Track* setup page
3. Press *SELECT* button to edit track options
4. Turn Large knob to select option to modify
5. Turn Small knob to change options
6. Press *ENTER* to accept changes

SAR Moving MAP

1. Press *MAP* button
2. Turn Large knob to SAR map
3. Press *PAT* smart-key to allow selection of search type
4. Turn small knob to select desired search type
(*Parallel*, *Creeping Line*, *Expanding Square*)