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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
   l. Special Local Procedures & Conditions
   m. Takeoff: 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

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

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iso</td>
<td>Only pilot hears FAA radios</td>
</tr>
<tr>
<td></td>
<td>Co-pilot hears Com3</td>
</tr>
<tr>
<td></td>
<td>Co-pilot and passengers have intercom</td>
</tr>
<tr>
<td>All</td>
<td>Everybody hears everything</td>
</tr>
<tr>
<td>Crew</td>
<td>Pilot &amp; copilot hear radios and intercom</td>
</tr>
<tr>
<td></td>
<td>Passengers have separate intercom</td>
</tr>
</tbody>
</table>

4. Audio Buttons - Press to light:
   - Com1 and/or Com2 - as required
   - Nav1 and/or Nav2 - as required
   - ICS - opens intercom between pilots
   - Com3 - actives 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

<table>
<thead>
<tr>
<th>Chan</th>
<th>Display</th>
<th>Description</th>
<th>Tone</th>
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<tbody>
<tr>
<td>1</td>
<td>PRIM-SPX</td>
<td>Primary Simplex</td>
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<tr>
<td>2</td>
<td>SMPX-125</td>
<td>Simplex</td>
<td></td>
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<td>3</td>
<td>SMPX1375</td>
<td>Simplex</td>
<td></td>
</tr>
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<td>4</td>
<td>AIR/GRND</td>
<td>Simplex Air to Gnd</td>
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<tr>
<td>5</td>
<td>RPTRS150</td>
<td>All Rptrs 1</td>
<td></td>
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<tr>
<td>6</td>
<td>RPTRS125</td>
<td>All Rptrs 2</td>
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<tr>
<td>7</td>
<td>AIR1-RPT</td>
<td>Airborne Rptr 1</td>
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<tr>
<td>8</td>
<td>AIR2-RPT</td>
<td>Airborne Rptr 2</td>
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<tr>
<td>9</td>
<td>SMPX750</td>
<td>Simplex</td>
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</tr>
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<td>10</td>
<td>SMPX900</td>
<td>Simplex</td>
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<tr>
<td>11</td>
<td>ARMY-RPT</td>
<td>Army Mars Rptr</td>
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<tr>
<td>12</td>
<td>AXN-RPTR</td>
<td>Alexandria Rptr</td>
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<tr>
<td>13</td>
<td>BJJ-RPTR</td>
<td>Bemidji Rptr</td>
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<td>14</td>
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<td>Brainerd Rptr</td>
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<td>Byron Rptr</td>
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<td>Mankato Rptr</td>
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<td>St. Cloud Rptr</td>
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<td>STP-RPTR</td>
<td>St. Paul Rptr</td>
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<td>TVF-RPTR</td>
<td>Thief River Falls Rptr</td>
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<td>VIR-RPTR</td>
<td>Virginia Rptr</td>
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<td>WLK-RPTR</td>
<td>Walker Rptr</td>
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<td>RSVDRPTR</td>
<td>Reserved Rptr</td>
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<td>26</td>
<td>PACK-895</td>
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<td>PACK-925</td>
<td>Packet 2</td>
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<td>MARINE06</td>
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<td>33</td>
<td>MNSEF</td>
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<td>YLWBRIEF</td>
<td>Yellow Air-Air</td>
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<td>35</td>
<td>GRN-BRIEF</td>
<td>Green Air-Air</td>
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<td>36</td>
<td>MIFC-P-P</td>
<td>MIFC pt to pt</td>
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<td>37</td>
<td>EVELETH</td>
<td>Eveleth Repeater</td>
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<td>38</td>
<td>NORTHOME</td>
<td>Northome Repeater</td>
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<td>39</td>
<td>QUADNA</td>
<td>Quadna Repeater</td>
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<td>40</td>
<td>SUPERIOR</td>
<td>Superior Dispatch</td>
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<tr>
<td>41</td>
<td>GND-HELI</td>
<td>Gnd to Gnd Heili base</td>
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<tr>
<td>42</td>
<td>VACANT</td>
<td>Vacant</td>
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<tr>
<td>43</td>
<td>VACANT</td>
<td>Vacant</td>
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</tr>
</tbody>
</table>

### 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** is 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)