

Profile #3 – Electronic Search Mission Profile

Prerequisites

This profile may only be flown by qualified SAR/DR Mission Pilots.

For A12 missions, sortie duration should not exceed 1.5 hours.

Required Items

Plan for and brief the crew on **one or more** of the electronic search missions listed below. Special emphasis should be placed on mission risk assessments, direction finding equipment familiarizations, aircraft limitations and operating procedures, and communications procedures.

- Electronic Search Utilizing the Wing-Null Method.
- Electronic search utilizing the L-Tronics Airborne Direction-Finding Unit.
- Electronic search utilizing the Becker/Rhotheta Airborne Direction-Finding Unit.
- Practice electronic search sortie, as planned and briefed
 - Track the beacon to its source
 - Lead a ground or urban direction-finding team to the source
 - Provide detailed location information to ground personnel
 - Provide a short verbal description of the target
 - Provide accurate latitude and longitude coordinates of the target
 - If the target is located at an airfield and ground search equipment is available, locate the beacon on the airfield.
- Review landing procedures with crew members

After the flight:

- Debrief the sortie with the crew, be sure to upload or provide images, as necessary
- Ensure that mission accomplishment is properly documented (ref: Introduction)

Routine Items

Enroute to the search area and on return to the airfield, practice the following as time and conditions permit:

- Airwork: Slow Flight, Stalls, Steep turns, Turns around a point
- Simulated in-flight emergency procedures
- Landings: Normal (full flap), Normal (no flap), Short-Field, Soft-Field
 - Simulated forced landing (IAW restrictions on pg. 3 under “Execution”)
 - Go-around
- Approaches: ILS, VOR, GPS (if instrument qualified)