

## P10: Transmit a Spot Report with a Tactical Man Pack Radio

Based on:

**113-589-2004-Operate TACSAT Radio Set AN/PRC-117 in all Modes of operation**

**171-300-0063-Operate the Single Channel Ground and Airborne Radio System (SINCGARS) Advanced System Improvement Program (ASIP) Radio**

**071-326-0512-Estimate Range**

**171-COM-4080-Send a Spot Report (SPOTREP)**

**Task:** Assemble and load Communications Security (COMSEC) into a tactical man packable or vehicle mounted radio, program it for both Line of Sight (LOS) and Satellite (SAT) voice communications, then conduct a LOS radio check. Use this radio to transmit your Spot Report (SPOTREP).

**Condition:** You are a member of a team who has been directed to prepare your radio for operations in a non-CBRNE environment. Next, you have moved to an observation post (OP) and are witnessing enemy operations. Intelligence reporting gives the size of your target as (Grader states height or width of target, ensuring Candidate identifies it).

**Standard:** Assemble, load, and program the radio and conduct a LOS radio check within five minutes. Correctly transmit a SPOTREP in sequence, using proper radiotelephone (RTO) pronunciation and procedures within 10 minutes.

**Station Requirements:** Calibrated compass, mil-reticle binoculars/other magnified optical device with mil markings, and a stable platform to view the target. 10-digit grid to Candidate's location (DO NOT use the grid to the actual test site), a protractor, and military map with declination diagram. Blank piece of laminated paper, alcohol pens, a basic calculator, and eraser. One set of Signal Operating Instructions (SOI) according to unit SOP; all pertinent frequencies listed. All call signs required and an information sheet showing the appropriate COMSEC for each week of the month. One operational, tactical, man packable/vehicle-mounted radio with no frequencies programmed, no COMSEC loaded, disassembled, with all Basic Inventory Items (BII). An operational, tactical radio loaded with training COMSEC and pertinent frequencies for the Grader to use. A Simple Key Loader (SKL) with all BII, loaded with four weeks of training COMSEC keys. Provide the Candidate with, or ensure the Candidate has a watch with the correct date and time. Grader must have a cheat sheet/overlay for the Candidate's target plot.

Target setup: The Candidate must have to look through binoculars and talk on the radio during the SPOTREP rather than stand over a terrain model. As a result, a target such as a building, vehicle, or person/E-type will be used at actual distance. If the local area does not permit enough distance, a target must be created to scale based on the desired distance and the actual distance from the Candidate. For example, a person that is 19.5 inches (.495 meters) wide is 4.95 mils at 100 meters. At 2000 meters a 6.7-meter-long tank will appear as 3.35 mils. A 25-meter-long fighting position will appear as 12.5 mils. If this situation were scaled down to 50 meters away from the Candidate:

- a. That same tank will be .1675 meters long and still appear as 3.35 mils.
- b. That same fighting position will be .625 meters long and still appear as 12.5 mils. Other distances or target sizes may be used, but:
- c. They must be represented accurately and to scale.
- d. The Candidate must know the true size of the target regardless of whether it is scaled or actual distance.
- e. The simulated target should be far enough away to require the Candidate to use the binoculars.

If distances beyond 100 meters are available, use actual size targets rather than scaled. Consider placing training site on a roadway, power line cut, or elevated position to achieve more distance.

### **Assemble, Load, Program, and Radio Check:**

1. Assemble and power on radio. Battery(s)/power supply, LOS antenna, and headset/external microphone/speaker.
2. Load the correct COMSEC keys for the appropriate week into the radio with an SKL.
3. Program one secure (SC; CT), operational frequency, into the radio according to the SOI.
4. Radio check. **NO-GO if Candidate cannot communicate on this frequency/uses improper pronunciation/procedures.**

### **Send SPOTREP:**

1. Prepare SPOTREP.
  - a. LINE 1 - date time group (DTG) of report submission.
  - b. LINE 2 - reporting unit and method of observation: unaided, binoculars, infrared, thermal, night

vision device, unmanned aircraft system, or other. Follow with narrative if needed.

- c. LINE 3 - size of detected element.
  1. Persons: Military, Civilian.
  2. Vehicles: Military, Civilian.
  3. Equipment: Military, Civilian.
- d. LINE 4 - activity of detected element at DTG of report (sub-type if applicable). If needed add narrative.
  1. Attacking (direction from).
    - i. Air defense artillery (ADA) (engaging).
    - ii. Aircraft (engaging) (rotary wing [RW], fixed wing [FW]).
    - iii. Ambush (IED [exploded], IED [unexploded], sniper, anti-armor, other).
    - iv. Indirect fire (point of impact, point of origin).
    - v. Chemical, biological, radiological, or nuclear (CBRN).
  2. Defending (direction from).
  3. Moving (direction from).
  4. Stationary.
  5. Cache.
  6. Civilian (criminal acts, unrest, infrastructure damage).
  7. Personnel recovery (isolating event, observed signal).
  8. Other (give name and description).
- e. LINE 5 - location (grid coordinate with military grid reference system (MGRS) grid zone designator of detected element activity or event observed). **Must send correct, complete six-digit grid.**
  1. Candidate plots their location on the map.
  2. Candidate determines direction to target using compass.
  3. Candidate estimates distance to target using mil-relation method based on known size.
  4. Candidate plots the enemy location on the map.
- f. LINE 6 - unit (detected element unit, organization, or facility). If it cannot be identified it should be described in detail to include uniform, vehicle markings, or other identifying information.
  1. Conventional.
  2. Irregular.
  3. Coalition.
  4. Host nation.
  5. Nongovernmental organization (NGO).
  6. Civilian.
  7. Facility.
- g. LINE 7 - time (DTG of observation).
- h. LINE 8 - equipment element observed (and amplifying sub-type, if applicable). Narrative can be added to clarify/describe/explain the equipment. Nomenclature/type/quantity of all equipment observed should be provided if known. If equipment cannot be identified, it should be described in as much detail as possible.
  1. ADA (missile (man-portable air defense system [MANPADS]), missile (other), gun).
  2. Artillery (gun (self-propelled [SP]), gun (towed), missile or rocket, mortar).
  3. Armored track vehicle (tank-personnel carrier-command and control-engineer-transport-other).
  4. Armored wheel vehicle (gun, APC, C2, engineer, transport, other).
  5. Wheel vehicle (gun, C2, engineer, transport, other).
  6. Infantry weapon (anti-armor, RPG, machine gun, grenade launcher, small arms, other).
  7. Aircraft (RW-attack/utility/observation helicopter; FW-attack/transportation/UAS/other).
  8. Mine/IED (buried, surface, vehicle-borne IED, person-borne IED, other).
  9. CBRN.
  10. Supplies (class III, class V, other).
  11. Civilian.
  12. Other.
- i. LINE 9 - assessment (reason for/purpose of activity and threats to/opportunities for friendly forces).
- j. LINE 10 – narrative (Actions taken related to the activity: attack-withdraw-observe-other).  
Potential for subsequent reports: air support-BDA-call for fire-casualty report-EOD support-MEDEVAC-other.
- k. LINE 11 - authentication (report authentication) per SOP.
  2. Send SPOTREP to next higher element.