

VOICE RADIO: COMMUNICATING RIGHT

TRANSMISSION SECURITY

- Train self/operator
- Think before you push-to-talk
- Use right prowords
- Talk short
- Send long ones right
- Talk Army
- Stay cool
- Use format orders/reports
- Authenticate right
- Do basics to beat jamming
 - Keep operating
 - Adjust volume
 - Repeat transmissions
 - Change type antenna
 - Relocate antenna
 - Speak slowly
 - Increase power
 - Authenticate
 - Change frequencies - if authorized
- Troubleshoot your gear

TRAIN SELF/OPERATOR

- Conduct unit schools and net training using this card.
- Rigidly discipline your nets in the field.
- Transmit using lowest power and shortest antenna needed.
- Leave your antenna down unless you're talking. Up to talk, then down again.

THINK IT OUT

- Know exactly what you are going to say before you push to talk.
- Think your message out fully or write it down.
- Use OPORD/F SOP report format.
- If you receive an order, be prepared to challenge by authentication.

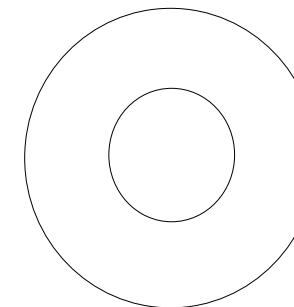
SHORT PROCEDURES

- Use long procedures only when you have commo problems. In any case, all transmissions must be not longer than 15 secs with a 5-7 sec break between them. This will help beat enemy direction finding equipment and will permit anyone who has a higher priority message to send their traffic.
- Use short call signs if you have positive commo.
 - Use Army's prowords for exactly what they mean.

- Break every 15 secs for 5-7 secs (let go of push-to-talk). A good message/order should take no more than 1 minute.
- Don't use homemade codes or codewords. No matter how clever they may be, they offer no trouble to enemy code breakers, and can lull you into false security.
- Use authorized OPS codes and authentication tables. They're random, constantly changed.

RIGHT PROWORDS

PROWORDS	MEANING
I SPELL	I shall spell next word phonetically.
MESSAGE	A message which requires recording is about to follow.
OUT	End of my transmission to you. No answer required.
OVER	End of my transmission to you. Response is necessary. Go ahead, transmit.
PRIORITY	PRIORITY precedence ahead of routine messages.
ROGER	I have received your last transmission satisfactorily.
ROUTINE	Precedence ROUTINE.
SPEAK SLOWER	Your transmission is at too fast a speed. Reduce speed of transmission.
THIS IS	THIS transmission is from the station whose designation immediately follows.
TIME	Time or date-time-group of the message.
TO	Action addressees.
FROM	The designator of the originator of the message.



STAY COOL

--Talk calmly! Don't shout, raise voice, or talk fast.

--Slow, calm, distinct, simple messages soothe subordinates and are easy to understand.

FORMAT ORDER/REPORTS

Without pictures, the human mind has trouble grouping ideas. It's always best to:

--Use report format.
--Use OPORD/FRAGO format.
--Habitually describe situation from left to right, front to rear.

--But when using format reports, don't repetitively say "Line 1 is..., Line 2 is..., " instead say "Line 1 is..., 2..., " etc. Remember "talk short."

SPOT REPORT

LINE ALPHA - Who (your call sign)?
BRAVO - What is observed?
 How many?
 What equipment?
CHARLIE - Where and when?
ECHO - Your actions.

Size.
Activity.
Location.
Unit being observed.
Time.
Equipment.

AUTHENTICATION

There is only one way to keep from falling for enemy deception over the radio and that is to challenge the station to authenticate. Always challenge an order to move or change mission. Four rules of engagement for authentication. Authenticate when you:

--Enter a net (includes openings).
--Close a net.
--Get instructions over the radio that tell you to do something different than what you are doing now or give up an asset.
--Feel the station you're talking to may be phony.

--Challenge is transmitted after the call-up, before the proword AUTHENTICATE. EXAMPLE: "L07, G22 Authenticate DELTA GOLF"
--Reply is simply the authentication. EXAMPLE: "UNIFORM"

BEAT JAMMING

--Use low power.
--Use smallest antenna possible to communicate.
--Keep transmission to 15 seconds and break for 5-7 seconds.
--Remote radios out of your ops center.

--Put a hill, forest, or built-up area between your radio and the enemy, but not between you and the station you're talking to.
--Drop to a lower net that works. Use it.

DROP A NET

Drop a net when yours is being jammed. If a battalion, for example, has traffic for a company, it can drop to the company's internal to pass it. Using this method can help you by:

--Leaving the battalion net open for traffic. Also may beat enemy EW/SIGINT efforts by allowing battalion traffic to be sent over as many as six different frequencies instead of locking into just one.
--Giving an incomplete picture. Enemy may keep monitoring the

battalion net while you talk to the companies on another frequency.
--While they are jamming your battalion net you are still able to pass information to the companies on their frequency.

WORKING THRU JAMMING

Even if you get jammed, you are still in pretty good shape. First, try to work through the jamming. If you can't work through the jamming you can at least do the following:

--Go to high power.
--Go to a different type of antenna.
--Still keep your transmission short but break them into one or two word groups.
--Continue "Drop a Net" method to get your message through, but never leave jammed frequency with no one on it. Set up a dummy station to keep transmitting and lock the jammer on the frequency. Try to keep him jamming that one frequency as long as possible

while you go about your business on your subordinate frequencies.
--Submit a MIJI report to your NCS. The quicker you send in the report the sooner they can locate and destroy the jammer.
--If you haven't done what you were told to do in paragraph "Beat Jamming," then you will be jammed; therefore, you will have only two options - move your commo site, or change your frequency.

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Reference: ACP 125, Communication Instructions, Radiotelephone Procedure

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