

### Objectives:

- 1. Understand the importance of security when communicating with radiotelephone.
- 2. Understand the purposes and differences between a directed and free net.
- 3. Understand the prowords used to report signal strength and readability.

### Objectives:

5. Understand the proper procedure for conducting and responding to radio checks 6. Understand the differences between delayed and immediate executive methods for transmitting tactical signals. 7. Understand the procedure for transmitting a signal using the immediate executive format.

### Lesson Background

- Preparation for LANTPAT.
- Only "real-time" mean of communication.
- No transmission security.
- Potential for poor communications
  - faulty equipment
  - poor operator performance.

### **Security**

Short and concise transmissions Radiowaves X enemy interception

#### With this in mind:

- No transmission will be made which has not been approved by proper authority.

# Security (cont'd) The following practices are specifically

#### forbidden:

- Violation of radio silence.
- Unofficial conversation between operators.
- Transmitting on a directed net without permission.
- Excessive tuning and testing.
- Transmitting the operator's personal sign or name.

### Security (cont'd)

The following practices are specifically forbidden (cont'd):

- Use of other than authorized prowords.

- Unauthorized use of plain language in place of applicable prowords or operating signals.

# Security (cont'd) The following practices are specifically forbidden (cont'd):

- Unauthorized use of plain language.



## <u>Security</u>

(cont'd)

The following practices are specifically forbidden (cont'd):

- Linkage or compromise of classified call signs and address groups by plain language disclosures or association with unclassified call signs.
- Profane, indecent, or obscene language.

### Security (cont'd)

#### The following practices are to be avoided:

- Use of excessive transmitting power.

- Excessive time consumed in tuning, changing frequency, or adjusting equipment.
- Transmitting at speeds beyond the capabilities of receiving operators.

### Types of Nets

Net Control Station (NCS)

- Free
- Directed

### **COMMUNICATIONS LOG**

All incoming and outgoing transmissions are recorded in the Communications Log

| <u>YP :</u> | = |    |      | COMMUNICATIONS LOG | <u>Date :</u> |     |
|-------------|---|----|------|--------------------|---------------|-----|
| TOR         |   | TO | FROM | SIGNAL/TEXT        | CKT           | TOX |
|             |   |    |      |                    |               |     |
|             |   |    |      |                    | Τ             |     |
|             |   |    |      |                    |               |     |
|             |   |    |      |                    |               |     |
|             |   |    |      | 1                  |               |     |



### Radio Watches

- Guard Continuous receiver watch with transmitter ready for immediate use. Complete log is kept.
- Cover Continuous receiver watch. Transmitter tuned and available. Complete Log is kept.
- Copy Continuous receiver watch, with a complete log.
- Listen Continuous receiver watch, log is optional.

### Phonetic Alphabet

Alfa Bravo Charlie Delta Echo Foxtrot Golf Hotel India Juliet Kilo Lima Mike November Oscar Papa Quebec Romeo Sierra Tango Uniform Victor Whiskey X-ray Yankee Zulu

### <u>Prowords</u>

Pronounceable words or phrases which have been assigned meaning for the purpose of expediting radio conversations.

### Prowords

- THIS IS Preface to your call sign
- ROGER Last transmission received OK
- OVER I'm done, go ahead
- OUT I'm done, bye
- WAIT I will be back in a few seconds
- SAY AGAIN
   Say that again
- CORRECTION Oops! I really meant to say
- WILCO ROGER and I will comply
- AFFIRMATIVE Yes

### General Procedures

- 1. Listen before transmitting.
- 2. Speak clearly and distinctly.
- 3. Speak slowly.
- 4. Avoid extremes of pitch.
- 5. Be natural.
- 6. Use standard pronunciation.
- 7. Speak in a moderately strong voice.
- 8. Keep correct distance between lips and microphone.

### General Procedures

- 9. Shield your microphone.
- 10. Keep the volume of a handset earpiece low.
- 11. Keep speaker volumes moderate.
- 12. Give an accurate evaluation for a radio check.
- 13. Pause occasionally.
- 14. Adhere strictly to prescribed procedures.

### <u>Call Signs</u>

- Use International Call Sign in foreign ports.
- Use name of ship in U.S. ports.
- Local port authorities are identified by the port name and the word CONTROL ("Annapolis Harbor Control")

### **Establishing Communications**

- -Full call signs are used when establishing a net.
- To establish a net, the Net Control Station calls all stations.
- Stations answer in alphabetical order of the first letter/word of their call signs.

# RADIO CHECKS

Allow units to report on the signal strength and readability of radio transmissions.

### RADIO CHECKS



### SIGNAL STRENGTH

First part of the report

| LOUD      |
|-----------|
| GOOD      |
| WEAK      |
| VERY WEAK |
| FADING    |

#### READABILITY

Second part of the report



# RADIO CHECK LOUD AND CLEAR

<Callups are used to initiate a radio check>

### A1M this is AB, over.

<If the signal is loud and clear the proper
response is>

## This is A1M, roger, over.

<The station requesting the check then replies>

### This is AB, roger, out.



# RADIO CHECK NOT LOUD AND CLEAR

<Callups are used to initiate a radio check>

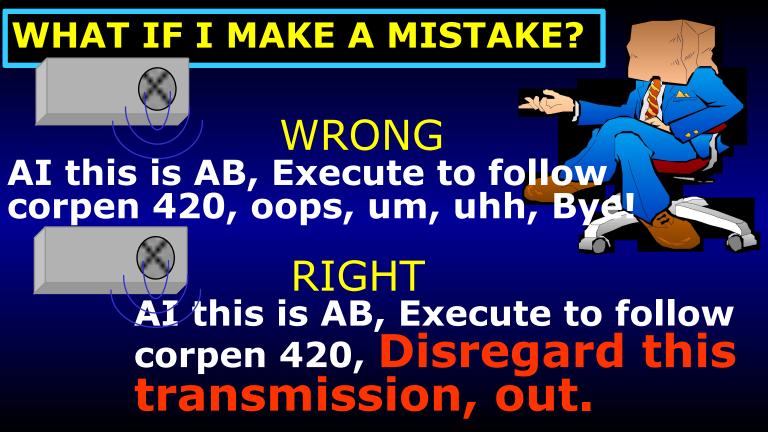
### A1M this is AB, over.

<Make a report on the signal strength and readability>

# This is A1M, read you weak and unreadable, over.

<The station requesting the check then replies>

### This is AB, roger out.



### WHAT IF I SENT A SIGNAL WRONG?

WRONG SIGNAL AI this is AB, Corpen Port 180, Over. CANCELED SIGNAL WITH CORRECTION

AI this is AB, NEGAT Corpen Port 180. Break, Execute to follow Corpen Port 180, over.

### <u>Acknowledgments</u>

Only if the Commanding Officer heard, understood, and directed acknowledgment of a message may the proword WILCO be used.

ROGER and WILCO are not to be used together.

### Tactical Signals

**Delayed Executive** 

Immediate Executive

### Delayed Executive

"RAMAGE, this is HAYLER. Execute to follow, Corpen starboard 130. Over"

(then, later)

"RAMAGE this is HAYLER. Corpen starboard, standby - execute. Over"

### Immediate Executive

RAMAGE, this is HAYLER.
Immediate execute, Speed 6, I say again, Speed 6.
Standby...Execute. Over."

### Practical Exercise 3

- PE
- RT PE MTP

# INTERROGATIVE