

LESSON TOPIC 1.8

COMMUNICATIONS



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ENABLING OBJECTIVES

- 1.21 IDENTIFY the purpose and methods used for damage control communication in accordance with NSTM 079
- 1.22 IDENTIFY equipment used and its proper stowage
- 1.23 IDENTIFY primary, supplementary, emergency and
- 1.24 IDENTIFY basic Damage Control Symbols and its for damage control communications in accordance with miscellaneous sound powered phone circuits used for control usage on message networks and subdivision plates in accordance with NSTM 079 VOL 2 and NWP 3-20.31
- NSTM 079 VOL 2 and NWP 3-20.31

Purpose of Damage Control Communications

- a. To provide an orderly relay of the information from station to station

- b. Allow personnel not at the scene of the damage to evaluate ships capabilities and take corrective action accordingly

3. Damage Control Communications Systems

a. Sound-powered telephone circuits

(1) Primary DC communications

NOTE: When integrated voice communication systems (IVCS) are installed sound powered telephones circuits will be designated as secondary communications

3. Damage Control Communications Systems

a. Sound-powered telephone circuits

(1) Primary DC communications

(2) Sound powered phones need no external source of power

(3) Communications between vital stations

3. Damage Control Communications Systems

a. Sound-powered telephone



b. Use and care of sound powered phone headsets

(1) Talking procedures

(a) Testing

1) Name your station

2) General message

b. Use and care of sound powered phone headsets

(2) Three part procedure

(a) Name of station called

(b) Name your station

(c) Message

1) Speak loud, clear and slow to be heard above background noise

2) Give exact details only, no opinions

3) Do not wait for acknowledgement from station called prior to completion of your message

4) Talk directly into mouthpiece (approximately 1/2" from mouth)

c. Handling and stowage of sound powered phone

(1) When in use

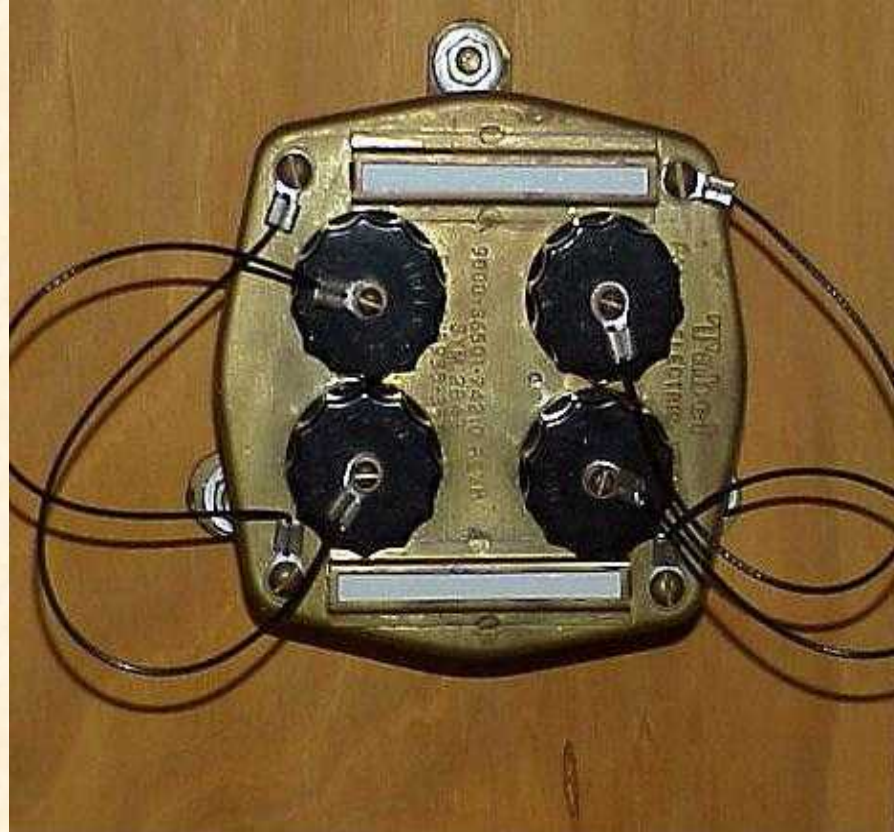
- (a) Do not walk on cord
- (b) Do not put strain on cord
- (c) Keep cord free of knots and loops
- (d) Adjust head band and chest plate
- (e) Keep neckstrap around neck. Do not let chest plate hang from headphone wires

c. Handling and stowage of sound powered phone

(2) Storage of phones

- (a) Use proper procedures for securing phones
- (b) Store in phone box provided
- (c) Replace cap on jack box

jack box



CAUTION: Failure to replace cap on jackbox may result in a short circuit, corrosion, or damaged threads on jackbox

d. DC Sound Powered Phone Phone Circuits

2JZ - Main DC circuit

(a) Damage control and stability circuit

(b) Communications between DC central, all Repair lockers, and all Battle dressing stations



NOTE: Repair locker number plus 2 = JZ circuit for repair lockers 1 thru 5 only. I.E. 2 plus repair 1 = 3JZ

(2) 3 JZ Circuit

- (a) Repair 1 main deck
- (b) Repair 1 units and patrol station
- (c) Each topside battle dressing station
- (d) Damage Control Central

(3) 4 JZ Circuit

- (a) Repair 2 forward and below main deck
- (b) Repair 2 units and patrol station
- (c) Each forward battle dressing station
- (d) Damage Control Central

(4) 5 JZ Circuit

- (a) Repair 3 aft and below main deck
- (b) Repair 3 units and patrol station
- (c) Each aft battle dressing station
- (d) Damage Control Central

(5) 6 JZ Circuit

- (a) Repair 4 amidships and below main deck
- (b) Repair 4 units and patrol station
- (c) Each amidships battle dressing station
- (d) Each remote valve control station
- (e) Damage Control Central

(6) 7 JZ Circuit

- (a) Repair 5 main propulsion
- (b) Repair 5 units and patrol station
- (c) Each machinery space
- (d) Damage Control Central

(7) JA Circuit

(a) Captains battle circuit

(b) Principle subordinates

(c) Damage Control Central

(8) 1JV Circuit

(a) Maneuvering and docking

**(b) Can be used by Damage Control Central
and repair station**

(9) Auxiliary Circuit

(a) Provides an alternate means of communication for certain principle primary circuits in the event of damage to either a portion of a circuit or to the entire circuit

(1) XJA circuits Auxiliary Captains Command

(2) X1JG circuit Auxiliary Aircraft Control

(3) X1JV circuit Aux Maneuvering

(4) X2JZ circuit Auxiliary Damage and Stability Control

(10) Emergency Circuit

(a) The X40J, an emergency auxiliary circuit provides a means of re-establishing communication once a casualty has occurred to the primary lines. The X40J is composed of portable leads, used for communication between permanently installed components

E. Integrated Voice Communication System (IVCS)



E. Integrated Voice Communication System (IVCS)

- (1) IVCS is a computer controlled telephone system
- (2) This system consolidates the communication functions and features normally provided by several systems into a single intergrated network
- (3) IVCS consists of two interconnected interior - communications switching centers, dial terminals, net terminals, terminals accessories, and associated cabling
- (4) IVCS allows for station-to-station telephone conversations, conference calls, and net communication

f. DC Wifcom (Wire free communication)

(1) (DC WIFCOM) A portable radio transceiver which provides a flexible and survivable means of rapid communication between repair lockers and Damage Control Central(DCC), during damage control scenarios

(2) Where installed, DC WIFCOM shall be the primary means of communication within the repair locker area. In damage control scenarios, WIFCOM, hand held transceivers are issued to the investigator and on scene leader to be used as primary means of communication in the repair locker area of responsibility

f. DC Wifcom (Wire free communication)

(3) Four to twelve channels are available for use, having the first four channel assignments: Channel 1 Repair 5 area. Channel 2 Repair 2 area. Channel 3 Repair 3 area. Channel 4 Designated as ship-to-ship (distance: 1 nautical mile) and may also be used for communication among ship control stations.

(4) Leading repair party personnel and ship's officers are the principal users of DC WIFCOM equipment.

g. Ship Service Telephones

(1) When installed, may be used as an alternate means of communication.

h. Announcing System

(1) Vital one way communication.

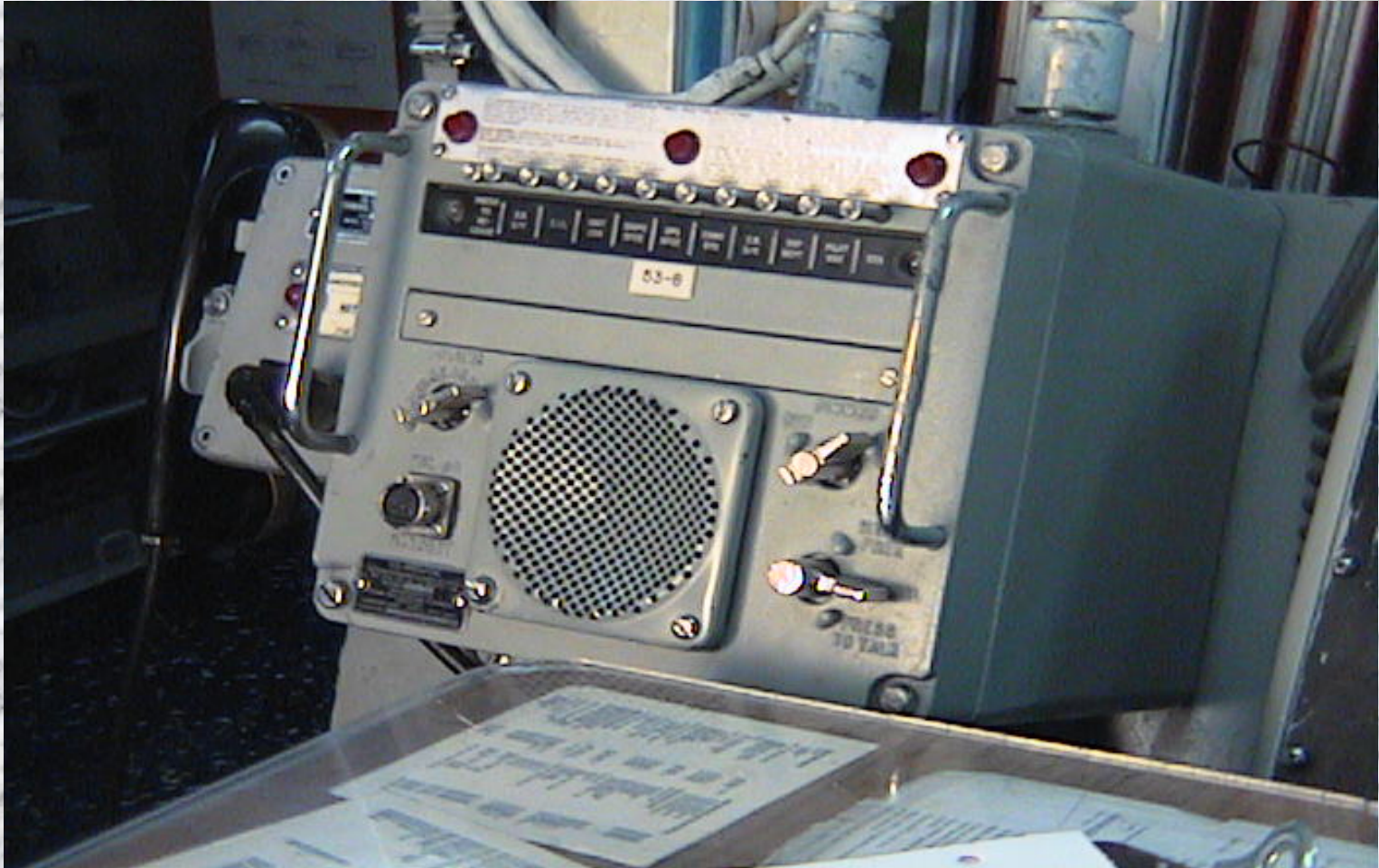
(a) 1MC- Shipwide

(b) 2MC- Engineering

(c) 3MC- Hanger deck

(d) 5MC- Flight Deck

i. Intercommunication System



i. Intercommunication System

(1) Two-way, station to station circuit operated by ship's AC and DC electrical system.

(a) 4MC- Damage Control

(b) 19MC- Aviation Ready Rooms

(c) 20MC- CIC

(d) 21MC- Captain's Command

(e) 22MC - Radio Central

(f) 24 MC Flag Officer

(g) 26MC- Machinery Control

j. Messenger

(1) All repair party personnel should be trained as messengers for relaying orders and information when electronic methods of communication have failed.

(2) A written message is more reliable than an oral message.

4. Review and Summary