

R E S T R I C T E D

HEADQUARTERS 49TH BOMB WING (H)
APO 520 U S ARMY

3 June 1944

QUESTIONS FOR RADIO OPERATORS
AND/OR PILOTS AND CO-PILOTS

VHF.

1. What are uses of Channel "A"? *HOMING AND FIXES*
2. What are uses of Channel "B"? *INTER WING - INTER PLANE*
3. What are uses of Channel "C"? *INTERNATIONAL CODE*
4. What are uses of Channel "D"? *AIR SEA RESCUE*
5. What is the difference between a Homing and a Fixing? *HOMING OBTAINS A BEARING TO STATION
FIXING OBTAINS YOUR POSITION*
6. What is the correct procedure to obtain a Homing?
7. What is the correct procedure to obtain a Fixing?
8. In what three ways can you determine if your transmitter is on?
9. Can VHF Transmitter and receiver both be on at same time? *YES*
10. What are abbreviations on the Toggle Switch positions and how may these positions be used? *REM - FOR NORMAL PUSH TO TALK USE T FOR TRANSMITTING ONLY R FOR RECEIVING ONLY*
11. To what position must the Toggle Switch be safetied? Why?
12. Can VHF Radio set be detonated?
13. Under what conditions may bombers use VHF?
14. When do you use your aircraft army number in place of your tactical call sign?
15. Can two or more planes receive Homings on the same channel at the same time?
16. How far can you expect VHF transmission to be radiated when you are flying at 500 feet above your airdrome? At 1000 ft.? Why? *LINE OF SIGHT TRANSMISSION*
17. When is it permissible to test the VHF set on a mission? Why?

IFF.

1. What do initials IFF mean? *IDENTIFICATION - FRIEND OR FOE*
2. Where is IFF set located?
3. What is the purpose of the IFF set?
4. Where is the IFF code selector switch?
5. To what position should this switch be set for all land based operational bomber aircraft?
6. When should the IFF set be turned on?
7. When should it be kept off?
8. Where are the detonator buttons?
9. What occurs upon depressing both buttons simultaneously?
10. Will detonation occur when buttons are pressed if the main line switch is off?
11. Is there any other way the IFF set may be detonated? If so how?
12. When should the emergency switch be placed on?
13. When should IFF set be detonated manually?

RADIO RANGE.

1. What radio range facilities are available in your area?
2. Approximately where are the stations and what are the magnetic bearings of each leg?
3. Do they operate on request only? If so how does one request it?
4. How can one orient himself on a radio range?
5. How should the volume control be adjusted in working a range problem?
6. How can one tell when he is over a range station?
7. Can one listen to the range receiver and the VHF receiver at the same time?

GENERAL

1. What is the procedure used for Air-Sea Rescue - For yourself? For another?
2. Which channel is used for emergency Homing or Fixing over land?

R E S T R I C T E D

HEADQUARTERS 49TH BOMB WING (H)
APO 520 U S ARMY

3 June 1944

QUESTIONS FOR RADIO OPERATORS
AND/OR PILOTS AND CO-PILOTS

VHF.

1. What are uses of Channel "A"? *HOMING AND FIXES*
2. What are uses of Channel "B"? *INTER WING - INTER PLANE*
3. What are uses of Channel "C"? *INTERNATIONAL CODE*
4. What are uses of Channel "D"? *AIR SEA RESCUE*
5. What is the difference between a Homing and a Fixing? *HOMING OBTAINS A BEARING TO STATION
FIXING RETAINS YOUR POSITION*
6. What is the correct procedure to obtain a Homing?
7. What is the correct procedure to obtain a Fixing?
8. In what three ways can you determine if your transmitter is on?
9. Can VHF Transmitter and receiver both be on at same time? *YES*
10. What are abbreviations on the Toggle Switch positions and how may these positions be used? *REN - FOR NORMAL, PUSH TO TALK USE. T FOR TRANSMITTING ONLY, R FOR RECEIVING ONLY*
11. To what position must the Toggle Switch be safetied? *Why?*
12. Can VHF Radio set be detonated?
13. Under what conditions may bombers use VHF?
14. When do you use your aircraft army number in place of your tactical call sign?
15. Can two or more planes receive Homings on the same channel at the same time?
16. How far can you expect VHF transmission to be radiated when you are flying at 500 feet above your airdrome? At 1000 ft.? *Why? LINE OF SIGHT TRANSMISSION*
17. When is it permissible to test the VHF set on a mission? *Why?*

IFF.

1. What do initials IFF mean? *IDENTIFICATION - FRIEND OR FOE*
2. Where is IFF set located?
3. What is the purpose of the IFF set?
4. Where is the IFF code selector switch?
5. To what position should this switch be set for all land based operational bomber aircraft?
6. When should the IFF set be turned on?
7. When should it be kept off?
8. Where are the detonator buttons?
9. What occurs upon depressing both buttons simultaneously?
10. Will detonation occur when buttons are pressed if the main line switch is off?
11. Is there any other way the IFF set may be detonated? If so how?
12. When should the emergency switch be placed on?
13. When should IFF set be detonated manually?

RADIO RANGE.

1. What radio range facilities are available in your area?
2. Approximately where are the stations and what are the magnetic bearings of each leg?
3. Do they operate on request only? If so how does one request it?
4. How can one orient himself on a radio range?
5. How should the volume control be adjusted in working a range problem?
6. How can one tell when he is over a range station?
7. Can one listen to the range receiver and the VHF receiver at the same time?

GENERAL

1. What is the procedure used for Air-Sea Rescue - For yourself? For another?
2. Which channel is used for emergency Homing or Fixing over land?
3. Which channels might be used for contact with British aircraft?
4. Which channel is used for all VHF ADC within the 15th Air Force?
5. What is the sole use of Channel "D" North of 38° N. Latitude, (An East-west line approximately through PALERMO)?
6. Are any of your VHF Channels the same frequency as those of other Wings in this Air Force? Of other Air Forces in this theater?
7. Which channel is used for individual bomber Wing interplane communication?
8. Which radio does radio operator use on all missions?

R E S T R I C T E D

R E S T R I C T E D

(QUESTIONS FOR RADIO OPERATORS AND/OR PILOTS AND CO-PILOTS, CONT'D.)

9. Is W/T or R/T used by radio operator?
10. Who uses SCR 274 and/or SCR 522 Command Sets?
11. Is W/T or R/T used on these sets?
12. Is a listening watch maintained on both Command and Liaison Sets at all times during Missions? Explain.
13. What frequency in which net does radio operator guard on Liaison receiver?
14. To what frequency in which net is Liaison transmitter tuned?
15. What is Command Frequency on SCR 274 and what control is exercised on this net?
16. Two planes of each group are designated at some time during mission to change frequency of Liaison Transmitter from Air-Sea Rescue Frequency to Wing Air-Ground Frequency. Which two planes are so designated and what transmission or report will be made by them?
17. After submitting this report, to what frequency will Liaison Transmitter again be tuned?
18. Are messages sent to Wing Air-Ground Station by planes in flight sent in clear?
19. What system of Cipher is used?
20. Will complete copies of this Cipher be carried in aircraft?
21. How much of and in what form will Cipher be carried?
22. What are the only conditions under which transmissions in the clear may be originated by radio operator?
23. What are the purposes of aircraft and Ground D/F verification signals?
24. What verification signals are used?
25. How, From whom, and in what code would a recall be received by aircraft on a mission?
26. Would this code word be transmitted in clear?
27. Would challenge of recall be made?
28. Should radio operator receipt for a recall message?
29. If it is necessary to use the VHF Command Set SCR 522, while on missions, for communications between aircraft of a Bomber, Wing, which channel is used?
30. Normally, which command set is used for communication between aircraft of a Bomber Wing? SCR 274 or SCR 522? Why?
31. Which set is used by bombers when requesting landing instructions at home field?
32. Which frequency is normally used on command set for this function?
33. Which other frequency may also be used on this set for this function? (Not VHF)
34. Which set is used by fighters?
35. On bombers, how is change made when changing from SCR 274 to SCR 522?
36. What are the three positions of Toggle Switch on VHF Control Box BC 602?
37. In which position is this Toggle Switch safetied and what is the purpose of the safety wire?
38. What are the consequences when this switch is unknowingly placed in "T" position?
39. How is transmission effected when switch is in safetied position?
40. How is VHF set turned on and off?
41. What are the possible uses of Channel "A" for bombers?
42. Explain the difference between a "Homing" and a "Fix"?
43. Can "Big Fence" be called on any other aircraft set than VHF?
44. What is the only use of Channel "B" for bombers of this Wing?
45. What are uses of Channel "C"?
46. Why should airdrome control be carried out on SCR 274 rather than on VHF Channel "C"?
47. What are the uses of Channel "D"?
48. What Air-Sea Rescue facilities are available on Liaison set?
49. How far from a MF/DF station may accurate bearings be expected?
How far from a HF/DF station may accurate bearings be expected?
How far from a VHF/DF station may accurate bearings be expected?
50. Upon what main factors do satisfactory bearings depend?
51. Is it required of radio operator to keep a log of all transmissions?
52. Is it permitted for radio operators to obtain fixes from Ground Stations when proceeding to objective? Why?
53. Should radio operator obtain fixes after objective is reached? Why?
54. When should IFF be turned on and turned off?
55. Under what conditions will IFF be detonated?
56. How will this detonator be exploded?
57. When flying operational missions to the South of France or in that general direction, should Homing be requested from Big Fence? Why?
58. Under conditions of location of aircraft given in #57, what procedure should be followed in obtaining a Fix and what ground stations should be contacted?

R E S T R I C T E D