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HEADQUARTERS FIFTH ARMY  
OFFICE OF DIRECTOR OF OPERATIONS  
APO 464 US ARMY

RDF/scc

15 August, 2020

SUBJECT: Standard Operating Procedure for Test Kit, RFC1149, Block 1

TO: Unit Commanders  
FIFTH ARMY 25U Signal Support Systems Specialists

1. This SOP is designed to provide a uniform method of operation to be used by all FIFTH ARMY Signals Corps units. If, under certain conditions, it is found necessary to deviate from the provisions of this SOP, it will be used as a guide and followed as closely as possible.

2. ASSIGNMENT OF KIT TO PERSONNEL; RESPONSIBILITY FOR SAFEKEEPING

a. Each Test Kit is considered part of the personal kit of a Responsible Signal Support Systems Specialist (RSSSS). The RSSSS is responsible for the maintenance, safekeeping and return to QM of the kit.

b. Each Test Kit shall be issued by the relevant Quartermaster's Office by means of a Military Interdepartmental Purchase Request, DD Form 448, Jun 72 or later, completed by the RSSSS and countersigned by the Unit Commander as Authorizing Officer.

WHITE copy: QM File  
PINK copy: RSSSS deliver to Unit Commander for Unit File  
YELLOW copy: RSSSS to retain

3. MAINTENANCE AND REGULAR UPDATES TO KIT

a. The RSSSS shall be responsible for regularly obtaining updated versions of this SOP and placing them in the kit, discarding any obsolete version immediately. This shall be performed on the first day of each calendar month (or, if on furlough or otherwise off duty on the first day of the month, then on the first day of duty following the first day of the month).

b. The RSSSS shall be responsible for replenishing CONSUMABLE kit items as detailed in the following section of this SOP. Such replenishment should occur as soon as practicable after item expenditure, but in no case on a slower schedule than item a. above. Supplies are to be obtained through QM office. When exigent supply chain circumstances make QM resupply impossible, locally sourced substitutes may be employed as necessary.

4. ITEMIZED CONTENTS OF KIT

Contents are labeled with a capital letter as indicated below for easy identification. Items marked with an asterisk(\*) are CONSUMABLE.

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- |         |                      |                               |
|---------|----------------------|-------------------------------|
| a. (A)  | Qty 1(ONE)           | Remote Packet Inspection Tool |
| b. (B)* | Qty 10(TEN)          | Packet Capture Assist Device  |
| c. (C)  | Qty 1(ONE)           | Trainer Carrier               |
| d. (D)  | Qty 1(ONE)           | Carrier Handling SOP Booklet  |
| e. (E)* | Qty 100(ONE HUNDRED) | Packet Tag                    |
| f. (F)* | Qty 4(FOUR)          | Replacement Exterior Label    |
| g. (G)  | Qty 1(ONE)           | VHF Transceiver Group         |
| h. (H)  | Qty 1(ONE)           | Expanded Packet Header        |

#### 4. KIT PACKING

a. The kit is supplied in an impact- and water-resistant, foam-lined transport case. Operation and general maintenance of latches, handles, hinges and seals for this case is described in Standard Operating Procedure for Polymer Water-Resistant Instrument Cases.

b. Packing order with transport case lid side up, purge valve facing operator, is as follows:

- i. Upper right; Replacement Exterior Label (print side down).
- ii. Lower left; Carrier Handling SOP Booklet.
- iii. Right side; Packet Capture Assist Device (in carry case; hang tag down, hang tag towards rear of transport case).
- iv. Lower right; Remote Packet Inspection Tool (in box; hang tag down, hang tag towards rear of transport case).
- v. Upper right; Packet Tag (in box; hang tag down, facing left).
- vi. Left side; VHF Transceiver Group (in box; top side up, box hinge left).
- vii. Center gap; Trainer Carrier (head away from operator, beak up).
- viii. Upper right; Expanded Packet Header (rolled).
- ix. Center; SOP document (folded).

#### 5. PURGE VALVE OPERATION; IMMERSION, ALTITUDE CHANGE

a. The Block 1 transport case is equipped with a MANUAL purge valve located under the carry handle. This valve consists of a steel bolt with a knurled plastic knob molded onto one end. A neoprene O-ring is press-fit into a circular channel on the surface of this knob, surrounding the point where the bolt exits the knob. When the bolt is properly torqued into a threaded brass bushing press-fit into the transport case, the O-ring forms an airtight seal against the wall of the transport case. These components are field-replaceable:

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- i. PURGE VALVE BOLT, MANUAL Pelican P/N 1209  
(Includes P/N 1209OR preinstalled)
- ii. PURGE VALVE O-RING, MANUAL Pelican P/N 1209OR
- iii. PURGE VALVE BUSHING, MANUAL Pelican P/N 1209BL

b. Ensure the threads of the bolt and mating threads in the transport case are clean. If debris is found on either thread, use a brass brush to clean both threads. A rifle or pistol bore brush is suitable for this purpose; compressed air should also be used if available. The bolt should turn freely through its entire travel. If cleaning does not fully free the bolt, replace some or all of the components as listed in a. above.

c. Do not fully remove the bolt except for cleaning or replacement purposes. Always replace the bolt immediately after completing maintenance.

d. This valve should normally be left in the UNSEALED position. This is particularly important if the kit is being transported by air. The valve is correctly UNSEALED when the bolt is turned counter-clockwise until the sealing surface stands at least 1/8" (ONE EIGHTH INCH) off the surface of the travel case.

e. Before traveling through an area where risk of exposure to water or nuclear/biological/chemical agents is anticipated, the valve should be SEALED. To seal the valve to an appropriate torque level:

- i. Verify that the valve is UNSEALED as described in d. above.
- ii. Gently turn the knob clockwise until resistance is felt as the O-ring engages the transport case wall.
- iii. Turn the knob one further quarter-turn clockwise.

f. Once the RSSSS has identified an appropriate site to open and deploy the kit, the area around the valve should first be thoroughly dried, if necessary. The valve should then be UNSEALED to equalize pressure before the case latches are unlocked. Wait a minimum of 5 (FIVE) seconds after unsealing the valve before unlocking the case latches.

## 6. KIT CONTENTS, PROPER USE OF

a. The REMOTE PACKET INSPECTION TOOL (A) is used principally for isolating packets from other traffic. A separate operating manual is supplied with the tool. Note that the tool included in this kit is designed for daytime packet capture only. Performance in occluded conditions (fog, smoke, &c.) may be suboptimal.

b. The PACKET CAPTURE ASSIST DEVICE (B) is supplied in a case of 10 units. Each unit is individually packaged and may be removed from the master case as needed and replaced if unused.

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i. Before attempting to capture packets, it is advisable to survey the area and determine if non-packet traffic in the area (e.g. carriers without attached packets) may interfere with the capture process.

ii. To deploy the device, remove the cap from one of the individual units and spread the contents in the area where it is desired to capture packets.

iii. Wait for carrier to arrive and alight on the capture assist device.

iv. Use an appropriate tool to capture the packet by intercepting the carrier. Choice of tool will depend upon whether nondestructive capture (net, glue, snare, plastic bag, &c.) or destructive capture (shotgun) is called for. If in doubt consult the OIC for orders. In the absence of orders, nondestructive capture may be assumed.

v. If capturing packets with a plastic bag, be cognizant that if Time-To-Live (TTL) limits are exceeded, nondestructive capture will automatically transition to destructive capture.

vi. Under field conditions, carriers that are destructively captured may be used as a supplementary ration component.

c. The TRAINER CARRIER (C) may be used by the RSSSS to practice techniques in packet traffic handling, tag installation or removal and traffic injection into existing streams of carriers. DO NOT use the trainer device as a ration component as it is not rated for this application.

d. The CARRIER HANDLING SOP BOOKLET (D) is a manual explaining the correct handling and maintenance of carriers. Absent specific orders, the instructions therein constitute the definitive set of instructions for keeping carriers in good order.

e. The PACKET TAG (E) is supplied in a case of 100 units. Tags are used primarily to simplify remote identification of specific packets, typically using the REMOTE PACKET INSPECTION TOOL.

i. The carrier to be tagged must first be captured. The operator may be furnished with a box of ready-use carriers; if none are available, the PACKET CAPTURE ASSIST DEVICE may be helpful in this endeavor.

ii. Place the tag around one leg of the carrier and fasten the latch. DO NOT secure the tag around any packet data already affixed to the carrier, as it may render de-encapsulation difficult.

iii. Multiple tags may be affixed to a single packet.

iv. When capturing tagged packets, it is advisable to strip all tags before using the carrier as a ration component.

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f. The REPLACEMENT EXTERIOR LABEL (F) may be applied to the exterior of the kit transport case if the existing label is damaged or removed. It should be affixed to the lid side of the case, with writing in the correct orientation as viewed with the case handle facing up.

g. The VHF TRANSCEIVER GROUP (G) is used principally to communicate with other operators in the area. A separate operating manual is supplied with the tool. It is the responsibility of the RSSSS to operate the VHF TRANSCEIVER GROUP in compliance with local law (e.g. FCC regulations).

h. The EXPANDED PACKET HEADER (H) is employed for masking purposes. The RSSSS should don this equipment and stand to when so instructed by the OIC. Further orders will be provided after the equipment has been properly donned.

#### 7. SECURE DESTRUCTION OF KIT

a. All documentary contents of this kit, including this SOP document, are classified NOFORN. If the possibility exists that the RSSSS may be captured, all printed and written materials should be completely destroyed by fire.

b. When the kit is to be stored in a civilian setting where foreign nationals may come into contact with it (e.g. hotel), it is advisable to protect the kit with a standard M18A1 Claymore mine and M81 igniter (not supplied as part of kit). Use a short length of paracord to rig the pull ring of the igniter such that the mine will detonate when the kit is lifted or opened. Position the M18A1 such that the shrapnel cone is directed towards the expected direction of attack. Placing the kit in a nook or within a large appliance (e.g. refrigerator) will facilitate this by restricting the angles from which the enemy can approach it.

c. If the M18A1 is not available, other protective measures may be employed. The RSSSS should familiarize himself with the contents of U.S. Marine Corps Training Film MH-10379-A "Viet Cong Mines and Booby Traps" (1967 edition or as revised). If employing such measures, appropriate care should be taken to avoid wounding friendly forces.