C O N F I D E N T I A L

APPENDIX I

TO

REPORT OF SIGNAL COMMUNICATIONS OPERATIONS

NANSEI SHOTO (PHASE I)

SIGNAL SUPPLY AND REPAIRS

Compiled by
Signal Officer
27th Inf Div

7 July 1945

C O N F I D E N T I A L

C O N F I D E N T I A L

SIGNAL SUPPLY AND REPAIRS

NANSEI SHOTO (PHASE I)

- Table of Contents -

A. PLANNING PHASE

1. Statistics
2. Packing and Shipping

B. OPERATION PHASE

1. Establishment of Dump
2. Requisition and Issue Procedure
3. Items Issued During Operation Phase

C. REPAIRS

1. Preparation and Planning
2. Operation Phase
3. List of Repairs and Repair Replacements

D. REMARKS AND RECOMMENDATIONS

C O N F I D E N T I A L

A - PLANNING PHASE

1. Statistics: Upon receipt of information from Division G-4 of pending operation, this office began compilation of statistics of a twenty (20) day maintenance supply. In most cases the figures were the same as those used for the Saipan Operation except for changes caused by special equipment, i.e., special radio nets issued for the operation.

2. Packing and Shipment: Requests for total amounts were submitted to Island Command, APO 708. Since there were no facilities at Island Command for packing, it was necessary for the Signal Supply Section of Division to break down the maintenance into increments and waterproof pack it. This caused considerable delay since the personnel of the Supply Section is limited and they still had to complete the normal daily functions. It was finally necessary to secure working details to work 24 hours a day under the supervision of a trained Non-Commissioned Officer from the Signal Supply, thereby relieving the balance of the section for normal supply work. This normal routine included daily drawing of maintenance items, T/E replacements, salvage of equipment and replacements. Generally the maintenance supplies were delivered as requested except for certain types of batteries, shipment of which was delayed causing difficulty in reassignment for shipping to scene of operation. In one instance a shipment of critical batteries arrived after the assigned ships were already loaded. In addition a special shipment of equipment was received from Tenth Army which had not been included in statistics given to TQM's. As a result of these two discrepancies, several BLT's did not embark with a complete 20 day increment as originally planned. It was necessary to load wherever space was available, which proved to be one AK in one RCT. This is definitely poor policy because the loss of the ship would have meant the loss of the complete stock of certain batteries in the RCT. The change in assignment by TQM's also nullified the records of this office. No notice was sent this office by the TQM as to what boxes went on which ship so that we would have had no knowledge of what was lost if any ship was lost.

B - OPERATION PHASE

1. Establishment of Dump: Upon arrival at scene of operation, all Division maintenance supplies were immediately hauled into Army Dumps. Unfamiliarity with system of packing and marking caused some confusion at the Army Dump, so it was arranged with Army to have the Signal Supply Section set up at the Army Dump, thereby facilitating unpacking and sorting of Division maintenance and at the same time enhancing the situation as to availability of Signal Supplies to the Division.

2. Requisition and Issue Procedure: All requests for replacements were submitted daily to the Signal Supply Officer for approval after which the approved items were issued from either the Division Dump or Army Dump depending on availability. Close liaison between Division and Army, through operation of dump at Army proved extremely effective. Any items previously turned over to Army by Division were known to be on hand and no trouble was encountered in drawing from them. In most cases replacements were available. A serious shortage of Wire, W-130 occurred midway in the operation due to unloading difficulties encountered by Army. The Division supply had been used up by Army previously to replenish stocks of all units and their replacement factor could not be unloaded on time. Here again presence of Division personnel at Army was invaluable, in that reports were submitted to this office as critical items became available facilitating requests to Tenth Army for release.

3. Items issued as Combat Replacements, Period - April 16 to April 30, 1945:

T/E ITEMS		T/E ITEMS (Cont'd)	
Axle, RL-27	12 ea	Tool Equipment, TE-41	1 ea
Belt, LC-23	1 ea	Wire, W-110	364 mi.
Chest Set, TD-3	4 ea	Wire W-130	183 mi.
Climber, LC-6	4 ea		
Detector Set, SCR-625	4 ea	ACCESSORIES	
Flashlight, TL-122	139 ea		
Handset, TS-10	24 ea	Groundrod, GP-27	6 ea
Headset, HS-30	10 ea	Switchboard Unit, BE-2 ( )	2 ea
Holder, M-167	9 ea	Antenna, AN-130	13 ea
Lance Pole, PO-2	125 ea	Antenna, AN-131	17 ea
Lantern, electric, hand	9 ea	Handset, TS-15	11 ea
Lineman Equipment, TE-21	2 ea	Bag, BG-102	2 ea
Panel Set, AP 50-A	11 ea	Microphone, T-17	3 ea
Radio Set, SCR-300	10 ea		
Radio Set, SCR-510	1 ea	EXPENDABLES	
Radio Set, SCR-511	2 ea		
Radio Set, SCR-536	31 ea	Battery, BA-2	351 ea
Radio set, SCR-694	1 ea	Battery, BA-23	168 ea
Reel, RL-39	34 ea	Battery, BA-26	12 ea
Reel Equipment, CE-11	16 ea	Battery, BA-27	244 ea
Reel Unit, RL-31	3 ea	Battery, BA-30	6800 ea
Telephone, EE-8 ( )	31 ea	Battery, BA-31	11 ea
Telegraph Set, TG-5 ( )	1 ea	Battery, BA-36	3 ea
Terminal Strip, TM-184	34 ea	Battery, BA-37	4376 ea
Test Equipment, IE-17 ( )	1 ea	Battery, BA-38	3940 ea
Tool Equipment, TE-33	92 ea	Battery, BA-39	243 ea

EXPENDABLES (Cont'd)

Battery, BA-40	849 ea	Tube, 1L4	22 ea
Battery, BA-41	69 ea	Tube, 3A4	52 ea
Battery, BA-43	102 ea	Tube, VT-88	2 ea
Battery, BA-48	96 ea	Tube, VT-94	1 ea
Battery, BA-49	564 ea	Tube, VT-112	2 ea
Battery, BA-56	9 ea	Tube, VT-115	1 ea
Battery, BA-59	4 ea	Tube, VT-145	7 ea
Battery, BA-70	843 ea	Tube, VT-146	20 ea
Battery, BA-80	50 ea	Tube, VT-147	17 ea
Battery, BA-200/U	165 ea	Tube, VT-164	6 ea
Carbon Tetrachloride	2 gal	Tube, VT-165	17 ea
Electrolyte sulphuric acid	1 Qt	Tube, VT-171	25 ea
Form, SC No. 160	34 Pad	Tube, VT-172	15 ea
Form, SC No. 206	12 Pad	Tube, VT-173	4 ea
Lamp, LM-19	12 ea	Tube, VT-174	1 ea
Lamp, LM-35-A	100 ea	Tube, VT-177	5 ea
Message Book, M-210	940 ea	Tube, VT-178	5 ea
Message Envelope, M-40	2400 ea	Tube, VT-179	12 ea
Message Form, M-269	1 Ream	Tube, VT-182	1 ea
Pencil, M-140	504 ea	Tube, VT-185	5 ea
Solder, M-31	13 lbs	Tube, VT-209	4 ea
Tag, MC-72	10250 ea	Tube, VT-221	27 ea
Tape, TL-63	245 Roll	Tube, VT-223	12 ea
Tape, TL-192	215 Roll	Tube, VT-225	1 ea
Tube, 1A3	36 ea	Wire, W-71	30 ea

C - REPAIRS

1. Preparation and Planning: On receiving word of the Division part in the coming Mansei Operation, the Radio and T & T Repair Sections immediately proceeded to bring all their equipment up to T/E strength. A maintenance factor of 15% above normal T/E was carried on certain sets which have proved to be in constant demand. These sets included the SCR-536 & SCR-300. All section test equipment was checked for proper performance and spare parts for same were carried as emergency replacements. The two repair trucks in the section were loaded so as to insure a speedy set up for operation when the target area was reached. A large amount of equipment (not necessary for the operation, but still T/E) was taken, but stored in such a way that it did not hamper normal operation.

2. Operation Phase: When the Division was committed, the Repair Section set up their shops in the Division Signal Company Area. Not knowing whether this was to be a permanent set up, the Section was unable to operate fully, because all equipment could

not be unpacked unless at a permanent installation. The equipment absolutely necessary for operation was opened and set to work. The T & T Section operated normally from their M-7. The Radio Repair Section was divided in two parts. One working inside the M-7, handled major repairs and replacement installation of new parts and sets needing extensive repair. The second part operated from a workbench alongside the M-7. This crew, consisting of six (6) men, handled small repair work, i.e., alignment of new sets, tube testing, direct replacement of parts, and all SCR-536 - 300 - 511 repairs. This division of the section into two parts seemed to function smoothly. Frequent trouble arose due to faulty operation of Test Set IE-17, necessary for repair of SCR-536. No replacement sets were available at Army Dumps and thus the men made their own repairs on the test sets. A policy was devised whereby sets in for repair would be replaced if not repaired in twenty-four (24) hours. This policy worked satisfactorily with one exception. Our replacement stock was soon expended because Tenth Army Dumps were not able to make like replacements to us. This situation was alleviated somewhat when block shipments started to arrive at Army Dumps. Replacements were made as soon as possible. Much of the trouble found in sets was due to moisture and breakage which occurred enroute. All sets, damaged beyond repair by enemy mortar and artillery fire were replaced with a like item if available at Division Dump. After the Division was taken off the line and sent to the present area, the repair sections made permanent set-ups and are now operating 100%. Repair work is being done in the normal fashion.

3. List of Repairs and Repair Replacements:

REPAIRED	REPLACED
3 - PE-103	10 - SCR-300
1 - SCR-193	15 - SCR-536
4 - SCR-284	
40 - SCR-300	
2 - SCR-312	
50 - SCR-536	
15 - SCR-511	
10 - SCR-510	
10 - SCR-610	
5 - SCR-608	
4 - SCR-625	
1 - Test Set I-135	

D - REMARKS AND RECOMMENDATIONS

1. That increments be packed and waterproofed by Higher Headquarters and shipped by increments as specified by Division Signal Supply Officer.

2. That TQM's notify respective special staff section of any change in ship assignments to facilitate keeping of records and manifests.

3. That initially all Division maintenance go into a Division Signal Dump until items are sorted and then taken over by Army, since Division personnel are more familiar with method of packing and marking.

4. That more component items be included in Army maintenance or that some basic sets be broken into components to facilitate replacements. Usually a complete set isn't lost and the maintenance factor is considerably higher on certain components, such as antennae, handset, headset, than the authorized figure allows on basic sets.

5. That maintenance factor on Wire W-110 and Wire W-130 be increased to at least 250% of T/E.

6. That the Division Repair Shops be set up in a rear area, where 100% operation, including night work can be put into effect.

7. That personnel of Signal Supply Section be increased by ten (10) enlisted men with proportionate increase in ratings as previously outlined in changes recommended subsequent to Saipan Operation.

Matthew C. Mac Laughlin

MATTHEW C. MAC LAUGHLIN,
Major, SigC
Division Signal Officer