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FAITES UN DON – UTILISEZ LE BOUTON PAYPAL - MERCI



TOP SECRET
NEPTUNE - BIGOT

ANNEX NO. 3 to
F. O. NUMBER 1
In 13 Pages
Page No. 1
31 May 1944
Hq, IX Tr Carr Comd

Maps: GSGS 4072, 1:500000 (Air);
GSGS 3982, 1:250000 (Air);
GSGS 3957, $\frac{1}{4}$ " = 1 Mile.
GSGS 4153A, LC II. Lattice charts.

SIGNAL ANNEX

SECTION I

1. MISSION.

The Signal Communication Mission is to plan and provide signal communication and radar facilities for the IX Troop Carrier Command during the mounting of the Operation in the United Kingdom, the pre-assault phase, the assault phase and the subsequent build-up phase on the Continent.

2. GENERAL PLAN.

The General Plan is to install, maintain and operate signal communications capable of providing the following facilities:

a. The mounting phase when all units of the IX Troop Carrier Command are in the United Kingdom.

- (1) To operate signal communications, including wire, radio and messenger between Headquarters, IX Troop Carrier Command, Adv. Hq., IX Troop Carrier Command, and all subordinate units.
- (2) To operate signal communications, wire and radio, between Hq., IX Troop Carrier Command and Hq., Ninth Air Force.
- (3) To operate wire signal communications between Hq., IX Troop Carrier Command and Hq., 82nd Airborne Division and Hq., 101st Airborne.
- (4) To provide radar navigational aids and special radio navigational facilities at IX Troop Carrier Command airfields.
- (5) To install, operate and maintain air-ground channels of communication to aircraft in flight.
- (6) To install and operate radio channels of communication between Troop Carrier Command aircraft and with escort aircraft.

b. The assault phase when troop carrier aircraft are in the air and carrying out their tactical mission.

- (1) In addition to the facilities of the mounting phase, to install, operate and maintain radar, radio and visual aids for navigational facilities at points along the route to insure that troops and equipment are carried to pre-designated areas.
- (2) To install and operate radio facilities at darksite beacon sites to communicate with Hq., IX Troop Carrier Command.

TOP SECRET
NEPTUNE - BIGOT

Annex No. 3 to P.O. No. 1, Par. 2, cont'd.

c. The build-up phase on the Continent.

- (1) To install, maintain and operate communications, including wire, radio and messenger, between Hq., IX Troop Carrier Command and Advance Troop Carrier Command C.P. on the Continent as soon as landing facilities are available for Troop Carrier Command aircraft.
- (2) To install, maintain and operate signal communications, wire and radio, from Advance Troop Carrier Command C.P. or Adv. Hq., IX Troop Carrier Command to Hq., Ninth Air Force.
- (3) To install, maintain and operate signal communications including wire, radio and messenger between Hq., IX Troop Carrier Command on the Continent and subordinate units as they move to locations on the Continent.
- (4) To provide communication facilities including radar and other navigational beacons to insure success of resupply and evacuation missions.
- (5) To issue supplements to this section to provide for additional signal communications required after D plus 41.

3. SIGNAL TROOPS INVOLVED D DAY TO D PLUS 41.

388th Signal Company, Aviation (IX Tr Carr Comd Hq)
335th Signal Company, Troop Carrier Wing (52nd Tr Carr Wg)
336th Signal Company, Troop Carrier Wing (50th Tr Carr Wg)
337th Signal Company, Troop Carrier Wing (53rd Tr Carr Wg)
Elements of 459th Signal Construction Battalion, Avn.

TOP SECRET
NEPTUNE - BIGOT

Annex No. 3 to F.O. No. 1, cont'd

SECTION II4. WIRE LINES

a. Direct talking circuits will be available from (see Appendix 1 and 2):

Eastcote	to	AEAF
"	"	Ninth Air Force.
"	"	British Airborne Corps.
"	"	Torahawk.
"	"	50th Troop Carrier Wing, A-3.
"	"	52nd Troop Carrier Wing, A-3.
"	"	53rd Troop Carrier Wing, A-3.
"	"	38 Group.
"	"	82nd Airborne Division.
"	"	101st Airborne Division.
"	"	ANCF, PORTSMOUTH.
"	"	BILL of PORTLAND.
"	"	ELKO.

b. Only operational traffic will be transmitted over these circuits. Adequate administrative circuits are available.

c. From each Wing headquarters, direct talking circuits are available to its respective Groups; from each Group to its respective Squadrons.

d. Teleprinter service is available to each of the above headquarters except to British Airborne Corps, 82nd Airborne Division, BILL of PORTLAND, ELKO, and ANCF, from DISPECTE.

e. Meteorological circuits - Refer to Appendix No. 2 to this Annex.

Annex No. 3 to F.O. No. 1, cont'd.

SECTION III

5. RADIO FACILITIES.

a. Point to Point.

- (1) The Command - Wing radio net will be augmented to include the following stations:

<u>UNIT</u>	<u>LOCATION</u>	<u>CALL SIGN</u>
Adv. Hq., IX Tr Carr Comd	EASTCOTE	Y50
Hq., IX Tr Carr Comd	GRANTHAM	T31
Hq., 50th Tr Carr Wg.	RED HAYS	P87
Hq., 52nd Tr Carr Wg.	COTTESMORE	C45
Hq., 53rd Tr Carr Wg.	GREENHAM COMMON	W54
Hq., 82nd Airborne Division	LEICESTER	V34
Hq., 101st Airborne Division	GREENHAM LODGE	X10
Beacon Party	ATLANTA	K63
Beacon Party	CLEVELAND	T08
Beacon Party	ELKO	H94
Beacon Party	FLATBUSH	F21

- (2) Frequency will be 2075 Kcs. and operation will be W/T. Refer to Appendix No. 3.

b. Air to Ground.

- (1) Air-ground radio stations will be established at EASTCOTE and BILL of PORTLAND by Hq., IX Troop Carrier Command on 5005 Kcs, operation on R/T, with following call signs:

<u>UNIT</u>	<u>CALL SIGN</u>
Adv. Hq., IX Tr Carr Comd, EASTCOTE.....	HABILE
Hq., IX Tr Carr Comd, BILL of PORTLAND.....	PIENHEAD
All Tr Carr Comd aircraft in flight.....	SENDEAG
Aircraft 50th Tr Carr Wg.....	CRUSADE
Aircraft 52nd Tr Carr Wg.....	CROWBAR
Aircraft 53rd Tr Carr Wg.....	LEGEND
Aircraft Pathfinder Group.....	WARD

- (2) A VHF station will be established at the BILL of PORTLAND operating on Troop Carrier Command common frequency channel "D". Call signs will be as above.
- (3) There will be NO test transmissions.
- (4) RADIO SILENCE WILL BE MAINTAINED UNTIL AFTER "H" HOUR. Calibration of equipment will be made prior to the operation.
- (5) Radio operators will monitor 5005 Kcs. Wing Commanders are authorized to use this channel in emergency.
- (6) Co-pilots will monitor VHF channel "D".

c. Air to Air.

Intercommunication between aircraft in flight will be on VHF channel "C". Iron Group intercommunication HF frequencies using command transmitter.

Annex No. 3 to F.O. No. 1, cont'd.

6. NAVIGATIONAL AID FACILITIES.

a. Radio Aids.

- (1) E/F D/F section "N" will be used.
- (2) Splasher Beacons are available for use with aircraft radio compass. Eighth Air Force Memorandum 100-102 dated 8 May 1944 contains schedule for June and is available at Group Communications Office.
- (3) VHF channel "A" will be used for Air-Sea Rescue.
- (4) VHF/DF facilities are available on channel "D" at:

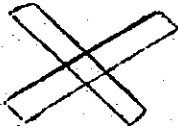
<u>LOCATION</u>	<u>CALL SIGN</u>
ALDERMASTON	ALRIGHT
COTESMORE	FARWEST
POLLINGHAM	LOGCRAFT
RAMSBURY	CEDRIC
ST ANDREW	OBSCURE
WELFORD	CHALET

b. Radar and Visual Aids

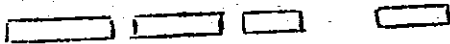
- (1) Type, location, coding and other pertinent data of beacon aids are as shown in schedule of Appendix 4 to this Annex.
- (2) In the event the LZ in an area is untenable, each Pathfinder team will set up its aids in the safest areas available and operate with scheduled codings.
- (3) Rebecca will be operated only by squadron leader of each nine aircraft element. There will be no deviation from these instructions except in emergency. Rebecca transmitter equipment will be turned off immediately after dropping airborne personnel or releasing gliders and will not be turned on again until thirty miles from the DZ's and LZ's. Squadron leaders will fly to DZ or LZ areas using radar aids for locating. Upon approaching DZ area lighted Tee will become visible. Drop signal will be given over lighted Tee and not on collapse of Rebecca Blip.
- (4) All Rebecca transmitters will be turned off immediately after making turn at boat marker HOBOKEN and will remain off until within twenty miles of the DZ or LZ. IT IS ABSOLUTELY VITAL FOR THE SUCCESS OF THE MISSION THAT THERE BE NO DEVIATION FROM THIS ORDER.
- (5) If serials become broken up, each small element lead ship will operate his Rebecca.
- (6) Pathfinder aids for resupply will be as scheduled in Appendix 4 to this Annex, supplemented and amended as follows:

Annex No. 3 to F.O. No. 1, par. 6. b. (6) cont'd.

- (a) The following white panels in connection with resupply will be displayed by the paratroops for the information of the photo reconnaissance aircraft:



Resupply not wanted.



Resupply desired on LZ or DZ
in direction of small panel.

- (b) Emergency resupply may be requested by radio through the Air Support Party to Ninth Air Force Headquarters, UXBRIDGE. This request will include coordinates of drop zone, time of drop, Eureka frequencies and coding, color or smoke and color of panel or light Tee.
- (c) Pathfinder aids for all 82nd Airborne area parachute resupply missions will be as scheduled for DZ "W". If glider resupply is used, the Pathfinder aids scheduled for LZ "W" will be used.
- (d) Pathfinder aids for all 101st Airborne area parachute resupply missions will be as scheduled for DZ "C". If glider resupply is used, the Pathfinder aids scheduled for LZ "E" will be used.
- (e) For parachute resupply missions during daylight hours, standard panels Tee will be used in place of lighted holophane light Tee and DZ code letter will be set up with panels. 82nd Airborne will use red panel Tee.
- (f) BUP3 beacon will be used for resupply missions coded as in schedule.
- (g) Fresh charged batteries for Pathfinder, BUP3, Eureka and light aids will be supplied by IX Troop Carrier Command Pathfinder School and will be flown in on resupply missions to provide operation of beacons on succeeding resupply mission.
- (7) IFF will not be used, except in case of ditching - Turn on Broad.

c. General

- (1) The IX Troop Carrier Command Pathfinder Group will be responsible for properly marking, pre-setting and making available all Eureka and BUP3 beacons, holophane lights and panels. Eureka's for assembly, departure and turning points will be available for pickup in sufficient time to insure their being placed in operation on schedule. Pathfinder equipment not required for marking resupply DZ's or LZ's will be evacuated with the glider pilots. It will be returned to the IX Troop Carrier Command Pathfinder Group, who will be responsible for the proper inspection and maintenance of the returned equipment.
- (2) S.C.I. Index dated 20 May 1944 and current S.C.P.'s are in effect.

TOP SECRET
NEPTUNE - BIGOT

Annex No. 3 to F.O. No. 1, par. 6c., cont'd.

(3) Identification - Refer to SD 158 and SD 533.

(4) Fighter Escort.

(a) Fighter escort will be provided by Eighth and Ninth Air Forces.

(b) Air-air communications between the escort aircraft and Troop Carrier Command aircraft will be on VHF.

(c) Channels to be used on each mission and the provision of VHF crystals will be covered in teleprinter messages from EASTCOTE to each Wing.

(5) Evacuation Air-Ground Communication.

Aircraft with wounded aboard returning to evacuation airdromes will display red lights and when deemed necessary fire a red signal flare in order that ambulance crews may be further alerted to proceed to that particular aircraft. These aircraft will be directed by the control tower to a designated site where they will be met by ambulances.

annex No. 3 to F.O. No. 1, cont'd.

SECTION IV

7. MESSAGE CENTERS.

a. In addition to the regularly established message centers, operational message center sections will be installed at each message center capable of delivering all traffic from incoming and to the transmitting agencies with the absolute minimum loss of time.

b. Additional motor messengers will be available throughout the operation.

8. CODES AND CIPHERS.

a. The Codes and Ciphers indicated in subsequent paragraphs will be used by units of IX Troop Carrier Command in Operation NEPTUNE. These codes and Ciphers will be in use throughout the AEF, unless the contrary is specifically stated.

b. The British and American Medium and Low Grade Code and Ciphers indicated in paragraphs e, and g, below will be held by units at all phases, in accordance with current S.C.P.'s.

c. The British and American Meteorological Systems and Codes indicated in paragraphs h, and i, will be held and used by Meteorological Units at all phases in accordance with current S.O.P.'s.

d. American Systems - High Grade.

SIGABA Machine Cipher with associated Systems. (U.S.A. Forces only).
Combined Cipher Machine adapter with Settings as detailed in pertinent S.C.L.

Emergency Double Transposition Cipher (U.S.A. Forces only).
SIGCUM (U.S.A. Forces only).
SIGTOT (U.S.A. Forces only).

e. American Systems - Medium and Low Grade.

Combined Field Code (CCBP 0129).
System 363, L 209 (U.S.A. Forces only).

f. British Systems - High Grade.

Allied Air Book Cipher.
British Inter-Service Book Cipher.

g. British Systems - Medium and Low Grade.

- (1) Bomber Code (CD 0250).
- (2) Army Air Support Control Code (CD 0263).
- (3) Air Support Double Transposition Cipher.
- (4) Slidex with Special Air Support Card.
- (5) Aircraft Movements Code (CD 0299 (1)) with RAF Code Scrambler "B" Series (CD 0264 B).
- (6) Friendly Aircraft Approach Code (CD 0300).
- (7) Operations Room Code (CD 0301 (1)) with RAF Code Scrambler "A" Series (CD 0264 A).
- (8) Combined Air Warning Code (CCBP 10) (Also known as AP 3046).
- (9) Grid Report Code.
- (10) Combined Assault Code (CCBP 0130 A - 1).
- (11) Fighter Director Vocabulary (CCBP 11).
- (12) Combined Authentication System (CCBP 0122 - A).
- (13) Combined Panel Code (CCBP - 8).
- (14) Map Reference Code.
- (15) Radio Telephone Conversation Code.

Annex No. 3 to F.O. No. 1, par, 8, cont'd.

h. American Met Systems.

- (1) AFMET - B.
- (2) CIPHER - K.
- (3) AFG - D.

i. British Met Codes.

- (1) S.D. 0195/5 Met Mapled Key Numbers.
- (2) C.D. 0245 Met O.T.P. (30)
- (3) C.D. 0246 Met O.T.P. (120)
- (4) C.D. 0115/2 Met Code.
- (5) C.D. 0278 (Europ) Met Recoding Table.
- (6) C.D. 0278 (AFMET) Met Recoding Table.
- (7) C.D. 0278 (Special) Met Recoding Table.
- (8) C.D. 032. H.E. Met Recoding Table.
- (9) C.D. 0277 Met Reciphering Frame.
- (10) C.D. 0210/2 Telmet Code.

j. All Top Secret messages that are to be transmitted by electrical means will normally be processed through a SIGABA down to and including Wing level.

k. IX Troop Carrier Command will hold copies of 82nd and 101st Airborne Divisions codes and ciphers.

TOP SECRET
NEPTUNE - BIGOT

Annex No. 3 to F.O. No. 1, cont'd.

SECTION V

9. SIGNAL SUPPLY.

- a. Signal supplies will be procured through IX Air Force Service Command.
- b. Units will be capable of performing 1st and 2nd echelon maintenance, and when possible, 3rd and 4th echelon maintenance.
- c. Pathfinder equipment will normally be returned to the Pathfinder Group for repair and realignment.

TOP SECRET
NEPTUNE - BIGOT

TOP SECRET
NEPTUNE - BICOT

Annex No. 3 to F.O. No. 1, cont'd.

SECTION VI10. COM. AND POSTS IN UNITED KINGDOM PRIOR TO LIBERATION.

- a. Supreme Headquarters Allied Expeditionary Force (SHAEF).
Headquarters: BUSHEY PARK, SURREY
- b. Allied Expeditionary Air Force (AEAF).
Headquarters: Main - STAMFORD, MIDDLESEX
Senior Representative - PORTSMOUTH
- c. Ninth Air Force Command Posts.
- (1) Combined Control Center: UXBRIDGE
 - (2) Headquarters, Ninth Air Force: UXBRIDGE
 - (3) Rear Headquarters, Ninth Air Force: SUNNINGHILL PARK
 - (4) Headquarters, IX Air Support Command: UXBRIDGE
 - (5) Rear Headquarters, IX Air Support Command: MIDDLE WALLOP
 - (6) Headquarters, IX Air Defense Command: LONDON
 - (7) Headquarters, IX Bomber Command: MARKS HALL
 - (8) Headquarters, IX Air Force Service Command: SUNNINGHILL PARK
 - (9) Headquarters, IX Engineer Command: LEATHERHEAD
- d. IX Troop Carrier Command Command Posts.
- (1) Headquarters, IX Troop Carrier Command: EASTCOTE
 - (2) Rear Headquarters, IX Troop Carrier Command: GRANTHAM
 - (3) Headquarters, 50th Troop Carrier Wing: RED HAYS, EXETER
 - (4) Headquarters, 52nd Troop Carrier Wing: COTTESMORE
 - (5) Headquarters, 53rd Troop Carrier Wing: GREENHAM COMMON
- e. Royal Air Force Command Posts.
- (1) Headquarters, 2nd Tactical Air Force: UXBRIDGE
 - (2) Rear Headquarters, 2nd Tactical Air Force: BRACKELL
 - (3) Headquarters, Air Defense of Great Britain: STAMFORD
- f. First U. S. Army Group Command Posts.
- (1) Headquarters, 1st U. S. Army Group: PLYMOUTH
 - (2) Headquarters, 1st U. S. Army: PLYMOUTH
 - (3) Headquarters, 3rd U. S. Army: KNOTSFORD
- g. 21st (British) Army Group Command Posts.
- (1) Main Headquarters, 21st Army Group: PORTSMOUTH
 - (2) Rear Headquarters, 21st Army Group: ST. PAUL'S, LONDON
 - (3) Headquarters, 2nd British Army: PORTSMOUTH
 - (4) Headquarters, 1st Canadian Army: LEATHERHEAD
- h. Allied Naval Expeditionary Force Command Posts.
- (1) Headquarters, Allied Naval Expeditionary Force: PORTSMOUTH
 - (2) Senior Representative, Allied Naval Expeditionary Force: STAMFORD
 - (3) Senior Representative, Allied Naval Expeditionary Force: UXBRIDGE
 - (4) Headquarters, Naval Commander Western Task Force: PLYMOUTH
 - (5) Headquarters, Naval Commander Eastern Task Force: PORTSMOUTH

TOP SECRET
NEPTUNE - BICOT

TOP SECRET
NEPTUNE - BIGOT

Annex No. 3 to F. G. No. 1, par. 10, cont'd.

i. Airborne Troops Command Posts.

- (1) British Airborne Corps: MOOR PARK
- (2) 82nd Airborne Division (American): LEICESTER
- (3) 101st Airborne Division (American): GREENHAM LODGE
- (4) 1st British Airborne Division: FULBECK
- (5) 6th British Airborne Division: NORTH NETHERAVON

ii. INITIAL COMMAND POSTS ON THE CONTINENT.

a. Probable initial Command Posts on the Continent:

Ninth Air Force - GRANDCAMP LES BAINS
 IX Troop Carrier Command - ST. LO
 IX Air Force Service Command - GRANDCAMP LES BAINS
 IX Air Support Command - GRANDCAMP LES BAINS
 IX Engineer Command - GRANDCAMP LES BAINS
 IX Air Defense Command - AVERANCHES

TOP SECRET
NEPTUNE - BIGOT

Annex No. 3 to F.O. No. 1, cont'd.

SECTION VII

12. AXIS OF SIGNAL COMMUNICATIONS.

a. Probable axis of Signal Communications:

(1) Ninth Air Force.

GRANDCAMP LES BAINS - CARENTAN - ST. LO - ROELES

(2) IX Troop Carrier Command

ST. LO

(3) IX Air Support Command

GRANDCAMP LES BAINS - CARENTAN - ST. LO - FOUGERES

(4) IX Air Service Command

CARENTAN - ST. LO - ROELES

(5) IX Air Defense Command

RENNES

(6) IX Engineer Command

CARENTAN - ST. LO - ROELES

By WILLIAMS:

DUKE
C of S

OFFICIAL:

/s/ FISHER
/t/ FISHER
A-3

REPRODUCED: Hqrs, 52nd T.C. Wing, 1 June 1944.

D.R. Petty
D. R. PETTY,
Colonel, Air Corps,
Top Secret Control Officer.