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#### **AUTHORITY**

AGO D/A ltr, 29 Apr 1980



#### DEPARTME OFFICE OF THE ADJUTANT GENERAL

WASHINGTON, D.C. 20310



AGDA (M)

(15 Jun 70) 701149 FOR OT UT

18 June 1970

SUBJECT:

Operational Report - Lessons Learned, Headquarters, 459th Signal Battalion. Period Ending 31 January 1970

SEE DISTRIBUTION

1. Subject report is forwarded for review and evaluation in accordance with paragraph 4b, AR 525-15. Information of actions initiated as a result of subject report should be forwarded to ACSFOR OT UT within 90 days of receipt of covering letter.

2. Information contained in this report is provided to insure appropriate benefits in the future from lessons learned during current operations and may be adapted for use in developing training material.

BY ORDER OF THE SECRETARY OF THE ARMY:

meth G. Nackl KENNETH G. WICKHAM Major General, USA The Adjutant General

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US Army Mobility Equipment Research & Development Center
459th Signal Battalion



### DEPARTMENT OF THE ARMY HEADQUARTERS, 459TH SIGNAL BATTALICES (CA) APC 96240

SCCPV-TG-MT-OP

12 February 1970

SUBJECT: Operational Report - Lesson Learned, Headquarters, 459th Signal Battalion For Poriod Ending 31 January 1970, RCS CS For - 65 (R2)

SEE DISTRIBUTION

#### 1. Section 1. Corrations: Significant Activities

a. Hission: To provide communications support to Free World Forces, Logistics Complexes, and U.S. Government Agencies in Darlac and Khann Koa Provinces, Republic of Vietnam. To perform other communications missions as directed by the Commanding Officer, 21st Signal Group.

#### b. General:

- (1) During the minety-two days of this report, two (2) significant events occurred within the battalion. On 19 Dec 69 the Ban Re Thuot Bungalow Signal Site was destroyed by fire, temporarily disrupting communications; on 1 Jan 70 the 518th Signal Company (RNUHF) was reassigned to the II CTZ Signal Battalion in Cam Ranh Bay.
- (2) Continued emphasis was concentrated in the following areas: quality of present communications; training utilizing in-country schools and on-the-job training; improving maintenance of all equipment; operational safety, with special emphasis being placed on motor vehicle operations.

#### c. Activities:

- (1) Principal Staff and Command Changes:
- (a) 1Lt Thomas Harrington assumed command of Headquarters and Headquarters Company from 1Lt Dennis K. Lavery on 7 November 1969.
- (b) 1Lt John P. Niebrzydowski assumed the duties of the Battalian Signal Information Officer from 1Lt Antony White on 4 December 1969.
- (c) Cpt George Weaver assumed command of B Company from Cpt Charles W. Russo on 19 December 1969.
- (d) Cpt Peter E. Sielinski assumed command of A Company from Cpt Arthur R. Lezenby on 27 December 1969.

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Signal Battelion for Period Ending 31 January 1970, RC: CS For - 65 (R2)

- (e) Maj Ashley R. Hodge assumed the duties of Battalion Executive Officer from Maj Peter Shunk on 29 December 1969.
- (f) 1Lt Martin Morris assumed the duties of the Battalien S-3 Officer from Cpt Joe W. Elliott on 25 January 1970.
- (g) Cpt Richard E. Hartley, S-4, departed from this command on 31 January 1970; no officer available for replacement.
  - (2) Distinguished Visitors:
- (a) MG Thomas Reinzi visited the Hon Tre Island Signal Site specifically interested in the new ARVN Radio Site.
- (b) Ron Ely, Tarzan, visited B Company, Minh Hoa, and the detachment at Duc My on 25 December 1969.
- (c) Col James P. Mattern visited the Mha Trang and Mon Tre Island Signal Sites where he received an orientation on the mission and organization of these sites.
- (d) BG Jack Albright visited the Hon Tro Island Signal Site on 27 January 1970, specifically interested in the functioning of the "Duffle Bag" system employed there.

#### d. Porsonnol and Administration:

- (1) During this quarter the enlisted personnel strength has been very favorable, while the officers strength has become critical, due to DEROS and internal transfers within the 21st Signal Group. Presently the 459th Signal Battalien is authorized: 44 officers and has on hand 22 for a 50% fill; 10 warrent officers and has 6 on hand for a 60% fill.
- (2) At the beginning of this quarter there were 986 personnel authorized with 895 on hand for a 91% fill. On approximately 1 January 1970, the 518th Sig Co (RRUHF) was reassigned to the II CTZ Sig Bn reducing this bettalion's authorized strength to 750 personnel; as of 31 January 1970 there were 740 personnel on hand for a 98.9% fill.
- (3) A new MTCE has been received which will affect the battalion's authorized strength and will be placed into effect during the next quarter.
- (4) Following is the number of awards presented by this battalies during this period:

Bronzo Star	37
ARCOM	33
21st Sig Gp Cortificate of Achievement	1
459th Sig Bn Cortificate of Achievement	133

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- (5) The following public information actions were taken during this period:
  - (a) Hometown News Releases 296
  - (b) News Articles 7
  - (c) Number of Photos 30
  - (d) Christmas TV Spots 52
  - (e) Christmas Radio Spots 37
  - e. Operations:
  - (1) Radio:
- (a) On 15 January 1970 the VHF system DBHO2, NHH-PhE was taken over by the Koreans.
- (b) On 19 December 1969 the Ban Me Thuot Bungalow Signal Site was destroyed by fire affecting the 77UT4P, BBT14, 77UT15 systems. These systems are now reestablished at Ban Me Thuot City Strip.
- (c) Hon Tre Island Signal Site constructed a new WIF building and installed a new MTC-1. This facilitates operation and maintenance due to the central location of all equipment and maintenance facilities.
  - (2) Wire:
- (a) The cable communication in the King Duy Tan Hotel was rehabilitated. All field wire and spiral four cables were replaced with a 100 pair cable, also in house wiring was replaced.
- (b) The Nha Trang Long Distance Switchboard has been deactivated. This freed an AN/HTC-9 which was turned in to the DSU at Cam Ranh Bey.
- (c) Rental IBM equipment: a 867 Electrical Typewriter and a 557 Alphabetical Interpretor have been returned to IBM in New York. This equipment was no longer utilized by the communication center and its return will signify a sizable savings for the U.S. Army.

#### f. Training:

(1) During this period emphasis was placed on raising the standards of training by updating lesson plans and training records, cross training personnel, and formal training at the USATF school.

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Signal Battalion for Period Ending 31 January 1970, RCS CS For - 65 (R2)

- (2) There were a total of sixty-one (61) personnel who attended classes at USATF, 1st Signal Brimade. These classes consisted of twelve (12) different courses dealing with operation and maintenance of signal equipment.
- (3) During this period nine (9) ARVN personnel were trained in the operation and maintenance of microwave radio equipment, at the various microwave sites of the 518th Sig Co. Also during this period seven (7) ARVN personnel have been trained as maintenance personnel by the 459th Signal Battalion EMS shop.
- (4) A driver training program, utilizing qualified instructors, has been initiated in this battalion. All drivers and personnel seeking drivers licenses are required to attend this driver education program.
- (5) The number of formal school trained personnel this battalion is receiving is significantly below the battalion's needs. Maintenance personnel are specifically needed in this battalion.

#### g. Intelligence:

- (1) During this period there were three enemy attacks: two in Pha Trang, on 17 January 1970 the BCQ area was mortared resulting in 0 MJA, and on 1 February 1970 the BCQ area and the Nha Trang Sig Bn area resulting in 0 WIA. On 29 January 1970 Ban No Thuot Bungalow was rec'teted resulting in 0 WIA, 3 rounds 122mm. Casualty status pertains only to the 459th Sig Bn.
- (2) Non Tro Island encountered considerable problems with the "Duffle Bag" equipment installed there.
- (3) Through the defense plan for Camp McDormett the 459th Sig Bn received responsibility for the PCL yard. At this time the 459th Sig Bn reinforced the existing bunkers, constructed additional bunkers, and installed a new concertina fence.
- (4) New concerting fencing and new bunkers were constructed at the Mha. Trang Signal Sites. A new perimeter lighting system was also installed.

#### h. Logistics:

- (1) During this period A Company was inspected by the 21st Signal Group Chal team, the results being satisfactory.
- (2) HHC was inspected by the 21st Signal Group CM I town, the results were unsatisfactory. It was determined that proper maintenance and logs were not being kept. Corrective action has been taken to correct all deficiencies found.

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SUBJECT: Operational Report - Lesson Learned, Heaviguarters, 459th

Signal Battalion for Period Ending 31 January 1970, RGJ C3 For - 65 (R2)

- (3) The mess hall on Hon Tre Island has been rehabilitated resulting in a more sanitary and appealing mess hall.
- i. Organization: The 518th Signal Company (RRUEF) was reassinged to the II CTZ Signal Battalion in Cam Ranh Bay. This reduced the battalion strength by 238 personnel, but those personnel at 459th Sig Bn sites are attached to the local unit.
- 2. Section 2 Lessons Learned: Commander's Observations. Evaluations. and Recommendations:
  - a. Personnel: None
  - b. Intelligence: None
  - c. Operations:
  - (1) Delay in Deactivating Circuits
- (a) Observation: A problem encountered has been the delay in having a circuit officially deactivated once the subscriber has neved from the area.
- (b) Evaluation: During the battles at Bu Prang and Duc Lep, several units moved into the Ban Me Thuot area. In addition to the normal signal support many of these units received solo user circuis. After these units departed the area it required approximately one (1) month to receive official deactivation orders. During this time this battalion was charged with the outage time for circuits that in actuality were no longer in existance.
- (c) Recommendation: Recommend a procedure be established to eliminate this problem. One possibility would be for local signal units to forward a message stating when a unit has moved out of its area of responsibility and which circuits were affected. These circuits could then be carried as "deactivated pending receipt of deactivation order" at all levels of command.
  - (2) Circuit Restoration:
- (a) <u>Observation</u>: After this unit's signal site at Ban Me Thuot was destroyed by fire, considerable difficulty was encountered in restoring circuits even though a book listing all circuits and their paths was available.
- (b) Evaluation: Two basic problems were encountered in circuit mostoral. The first was in locating some of the subscribers. The difficulty in locating some of these subscribers was that they were listed by "michanae" such as "Metro Station," "Flight Control," etc. The second problem, which manifested itself at all levels of command, was a failure to maintain accurate circuit records. This unit was asked more than once to restore a circuit that had long since been deactivated.

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Signal Battalion for Period Ending 31 January 1970, 2005 GS For - 65 (R2)

- (c) Recommendations To preclude the occurance of problems of a similar nature, a revised circuit book is being maintained which includes official subscriber names, phone numbers, types of equipment, and terminal locations. An additional list of deactivated circuits will, be maintained listing the deactivation authority.
  - (3) Emergency Distribution of Regulations and Directives
- (a) <u>Convertion</u>: As a result of the fire at the MACV Bungalow compound, this unit lost its file copies of all regulations, directives, and policy letters.
- (b) Evaluation: Many of the documents that were lost are essential to unit operations. The replacement flow of these documents has been extremely slow and has presented administrative as well as operational difficulties.
- (c) Recommendation: It is recommended that each headquarters (e.g. Battalion, Group, Brigade) maintain a minimum of one (1) extra copy of each document published by the headquarters. If such were done, onergoncy distribution could be effected as required. This procedure is being implemented at this time.
  - (4) Consolidation of SOP's and Policies
- (a) Observation: As a result of the fire at MACV Dungalow compound, the unit lost copies of SCP's, CJT lesson plans, and policy letters.
- (b) Evaluation: None of these documents were on file at Battalion Mead-quarters. Consequently, all of these documents had to be completely rewritten. This rewriting ontailed a considerable number of man-hours.
- (c) Recommendation: In the future, a file copy of all unit publications will be forwarded to Battalion. It is recommended that other units adopt a similar course of action for obvious reasons.
  - (5) Company Radio Not
- (a) Observation: Hon Tre Island had all FM radios entering the 459th Signal Battalion FM net during alerts.
- (b) Evaluation: During an actual alort the 459th Signal Eattalion FM not would be filled with traffic concerning the Battalion area in Mha Trang and couldn't be used for communication within the 228th Signal Company compound on Hon Tre Island.
- (c) Recommendation: A company FM radio not has been established for the 228th Signal Company to provide communications within the compound.

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SUBJECT: Operational Report - Josson Learned, Headquarters, 459th

Signal Battalion for Period Ending 31 January 1970, 208 CS For - 65 (R2)

- d. Organization: None
- e. Training: Maximum Utilization of Formal Schooling
- (1) Observation: It has been found that units are unable to utilize USATF schooling to the units maximum ability.
- (2) Evaluation: Due to the great length of time school allocations must be submitted prior to the actual class, units are unable to determine availability of personnel at the time the class will begin.
- (3) Recommendation: Reduce the time required for requested allocations to classes. This would greatly eliminate the problem of "mo-shows" and aid the commenders in forseeing personnel training requirements.
  - f. Logistics: Salvaging Electronic Equipment Shelters
- (1) Observation: When an electronic shelter is damaged beyond repair it cannot be replaced in RVN; e.g. Shelter S-177.
- (2) Evaluation: The equipment must be operated in a damaged shelter with faulty wiring and exposed to harsh weather. This can result in poor communications.
- (3) <u>Recommendation</u>: The shelter should be turned in to DSU for salvage, and the company allowed to utilize Inventory Adjustment Action, DA Form 444, to inventory adjust the major end items and enter them on property records.
  - g. Communications:
  - (1) Station Ground
- (a) Observation: 1600 Hz tone was interfering with all Tropo circuits.
- (b) Evaluation: Several engineering consultant teams could not find the source of the trouble; however, it was noted that when the generators and the Tropo equipment were connected to a common ground, the interference stopped.
- (c) <u>Recommendation</u>: Signal Sites should utilize a common ground for all communications and power equipment whenever possible.
  - (2) Elimination of Old Control (Nha Trang TCL)

SCCPV-NG-NT-OP

12 Fobruary 1970

SUBJECT: Operational Report - Jessen Learned, Headquarters, 459th

Signal Battalien for Period Ending 31 January 1970, RC3 CS For - 65 (R2)

- (a) Charrention: Presently the battalion has many Army area circuits looping over 3 miles of cable in order to pass thru Cld Control. The DCS circuits pass straight thru to the ICS test facility located at E.
- (b) Evaluation: The Old Control serves no function, but serves as a control facility for circuits which could more practically be controlled at the radio site.
- (c) Recommendation: Old Control should be eliminated, resulting in a 3 mile circuit path reduction.
  - (3) Rehabilitation of North Man Trang Cable (ACA-11)
- (a) Observation: The North Pha Trang 200 pair cable was providing inadequate communications due to faulty installation. After the cable was rehabilitated in January, the results of the joint acceptance tests were found to be unsatisfactory.
- (b) Evaluation: Rehabilitation was attempted since 1st Signal Ericado policy does not allow new installation in most circumstances. After many man-hours have been expended, the cable is still not acceptable.
- (c) <u>Recommendation</u>: All cable installation projects should be strictly engineered and controlled. Inadequate cable should not be rehabilitated when both results cannot be cortain and many man-hours must be expended.
  - (4) Cable Maintenance Responsibility in The Trang
- (a) Observation: NACV Directive 195-3 states that the Air Force is responsible for the maintenance of all cable distribution plants in The Trang.
- (b) Evaluation: A Company, 459th Signal Battalion, is required to repair and maintain Army installed cable in Ma Trang, though they do not have sufficient equipment, materials, and personnel, which are based on their mission.
- (c) Recommendation: Either A Company's cable section should be medified so that they are prepared to work on multi-pair cable or the areas of responsibility in Wha Trang should be more precisely delineated.
  - h. Mctoricl: None
  - 1. Othor: Nono

SCCPV-NG-NT-OP 12 Fobruary 1970 SUBJECT: Operational Report - Lesson Learned, Headquarters, 459th
Signal Battalion for Period Ending 31 January 1970, RCS CS For - 65 (R2)

1 Incl

ROGER K. DAVIS LTC, SigC Commanding

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5 ca - CO, 21st Sig Gp 1 ca - CO, 41st Sig Bn 1 ca - CO, 43rd Sig Bn 1 ca - CO, 73rd Sig Bn 1 ca - CO, II CTZ Sig Bn

SCCPV-NG (12 Feb 70) 1st Ind SUBJECT: Operational Report - Lessons Learned, Headquarters, 159th Signal Battalion For Period Ending 31 January 1970, RCS CS-FOR - 65 (R2)

DA, HEADQUARTERS, 21ST SIGNAL CROUP, APO 96240, 27 February 1970

#### TO: SEE DISTRIBUTION

- 1. Subject report is forwarded IAW 1st Signal Brigade Supplement 1 to AR 525-15.
- 2. This headquarters has reviewed the basic report and concurs with the information contained therein with the following comments and/or exceptions: Paragraph ld(1), page 2. Under the new TOE/TDA documents which will take effect on 1 March 1970, the 459th Signal Battalion's authorization will be reduced from 44 Officers to 26, and from 16 Warrant Officers to 7. The present number of officers and warrant officers assigned to the battalion is therefore in accordance with the new authorization.

JAMES P. MATTERN colonel, SigC commanding

DISTRIBUTION: (lst Ind Only)

6 - CG, lst Sig Bde, ATTN: SCCPV-OP, APO 96384

2 - ACS FOR, DA, Washington, D.C. 20310

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5 - CO, 459th Sig Bn, APO 96240

SCCPV-OP-AD (12 Fob 70) 2d Ind SUBJECT: Operational Report - Lessons Icarned of Hondquarters, 459th Signal Battalion for Period Ending 31 January 1970, ROS CSFOR-65 (R2)

- DA, He, 1st Signal Brigado (USASIRATCOM), APO 96384 13 March 1970
- TO: Commanding General, United States Army, Vietnam, ATTN: AVHGC-DST, APO 96375
- 1. Subject report is forwarded in accordance with AR 525-15.
- 2. The following comments are made:
- a. Reference item "Delay in Deactivating Circuits", para 2c(1), page 5:
- (1) To expedite deactivation of circuits resulting from units leaving an area without requesting termination of service the site should request the coordinating station to submit an exception report. This will speed the issuance of decitivation orders.
- (2) The units recommendation is concurred in for Corps Area Communications System (CACS) circuits. This authority must not be abused, however, and used as a reason in itself to carry circuits as deactivated.
- b. Reference item "Training", para 2e, page 7: The 459th Sig Bn's recommendation that the lead time required for requesting allocations to USATF courses be reduced is not compatable with the time required to plan and schedule courses. The number of courses taught at the USATF and the large number of units participating in those courses dictates that scheduling be accomplished on a quarterly basis. There are procedures established for units to coordinate the revision of allocations. The 459th Sig Bn training coordinators should request revised quotas whenever necessary.
  - c. Reference itom "Logistics", para 2f, page 7:
- (1) This headquarters has received guidance from ECOM on requesting component shelters. This guidance has been passed to the units for requisition action. Shelters will be replaced by requesting the end items less electronic components.
- (2) The recommondation as proposed, requires the approval of the Comptroller of the Army.
- d. Reference item "Elimination of Old Control (Nha Trang TCL)", para 2g(2), page 7: Engineering has been in progress for four months to eliminate the Nha Trang Old Control. Due to the complexity of this project an extensive engineering study is required.

SCOPV-OP-AD (13 March 1970 - 55 - 75

SUBJECT: Operational Report - Lessons Learned of Hendquarters, 459th Signal Battalion for Period Ending 31 January 1970, RCS CSFOR-65 (R2)

para 2g(3), page 8: The 40th Signal Battalion was tasked to rehabilitate this cable. After rehabilitation the cable did most acceptable standards. The 40th Signal Battalion is presently working on the cable. This headquarters feels the cable can be rehabilitated with a large savings to the Army. The 21st Signal Group is premature in their evaluation and recommendation.

FOR THE COMMANDER:

O. V. BOHEBRAKE

Major, AGC Adjutant General

CF:

Commanding General, US Army Strategic Communications Command, ATTN: SCC-OPS-RT, Fort Hunchuca, Arizona 85613
Commanding Officer, 21st Signal Group, APO 95240
Commanding Officer, 459th Signal Esttalion, APO 96240

AVHGC-DST (12 Feb 70) 3d Ind SUBJECT: Operational Report - Lesson Learned, Headquarters, 459th Signal Battalion For Period Ending 31 January 1970, RCS CS For - 65 (R2)

HEADQUARTERS, UNITED STATES ARMY, VIETNAM, APO San Francisco 96375

29 MAR 1970

THRU: Commanding General, United States Army Strategic Communications Command-Pacific, APO 96557

TO: Commander in Chief, United States Army, Pacific, ATTN: GPOP-DT, APO 96558

1. This headquarters has reviewed the Operational Report-Lessons Learned for the quarterly period ending 31 January 1970 from Headquarters, 459th Signal Battalion and concurs with the comments of indorsing headquarters.

#### 2. Comments follows

- a. Reference item concerning "Delay in Deactivating Circuite";, page 5, paragraph 2c(1); concur. A ring down of all subscribers afforded service should be conducted daily.
- b. Reference item concerning "Circuit Restoration", page 5, paragraph 2c(2); concur. The circuit activation request contains the proper identification and all records should be reflected accordingly. Records should be complete in that a list of deactivated circuits should be maintained for at least 90 days past inactivation.

FOR THE COMMANDER:

Cy furn: 459th Sig Bn 1st Sig Bde

Assistant Adjutant General

501 de (01 das 51) va-9090 SCCP-OP3 (12 Feb 70) 4th Ind SUBJECT: Operational Report - Lessons Learned, Headquarters 281802 459th Signal Battalion for Period Ending 31 January 1970, RCS CSFOR-65 (R2)

Headquarters, United States Army Strategic Communications Command-Pacific, APO San Francisco 96557 23 APR 1970

- Commander in Chief, United States Army, Pacific, ATTN: TO: GPOP-DT, APO 96558
- Subject report is forwarded in accordance with AR 525-15.
- 2. This headquarters has reviewed and concurs with subject report as indorsed.

FOR THE COMMANDER:

FRANK C. MAHIN COL, GS Chief of Staff

CG, USARV, APO 96375 (wo incl)

CG, 1st Sig Bde (USASTRATCOM), APO 96384 (wo incl) CO, 21st Sig Gp (USASTRATCOM), APO 96240 (wo incl) CO, 459th Sig Bn (USASTRATCOM), APO 96240 (wo incl)

GPOP-DT (12 Feb 70) 5th Ind SUBJECT: Operational Report of HQ, 459th Signal Battalion for Period Ending 31 January 1970, RCS CSFOR-65 (R2)

MQ, US Army, Pacific, APO San Francisco 96558 27 APR 70

THRU: Commending General, US Army Strategic Communications Commend, Fort Buschuce, Arizone 85613

TO: Assistant Chief of Staff for Force Development, Department of the Army, Weshington, D. C. 20310

This headquarters concurs in subject report as indorsed.

FOR THE COMMANDER IN CHIEF:

D.D. CLIMB 2LT, AGC Asst AG

CF: DA, ACSFOR CG, USASTRATCOM-PAC SCC-PO (12 Feb 70) 6th Ind

SUBJECT: Operational Report of HQ, 459th Signal Battalion for Period Ending 31 January 1970, RCS CSFOR-65 (R2)

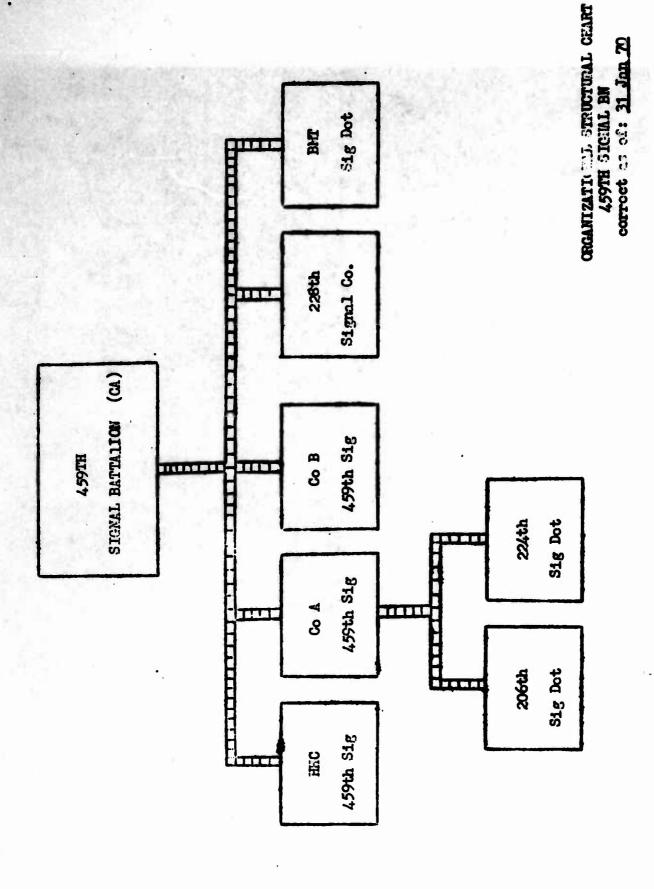
HQ US Army Strategic Communications Command, Ft Huachuca, AZ 85613 4 MAY 1370

TO: Assistant Chief of Staff for Force Development, Department of the Army, Washington, D. C. 20310

This headquarters concurs in subject report as indorsed.

FOR THE COMMANDER:

W. O. POLSTON
Maj. AGC
Asst Adj Geo.,



Inclosure

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DD ......1473

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