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31 May 1979, DoDD 5200.10; AGO D/A ltr dtd 29 Apr 1980	

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DEPARTMENT OF THE ARMY
OFFICE OF THE ADJUTANT GENERAL
WASHINGTON, D.C. 20310

(18) **OACSFOR**

IN REPLY REFER TO

AGAM-P (M) (19 Sep 67) FOR OT-RD-670268

4 October 1967

SUBJECT: Operational Report - Lessons Learned, Headquarters, II Field Force Vietnam Artillery (W).

TO: SEE DISTRIBUTION

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1. Subject report is forwarded for review and evaluation by USACDC in accordance with paragraph 6f, AR 1-19 and by USCONARC in accordance with paragraph 6c and d, AR 1-19. Evaluations and corrective actions should be reported to ACSFOR OT 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:

Operational report for quarterly period ending 30 Apr 67.

Kenneth G. Wickham

KENNETH G. WICKHAM
Major General, USA
The Adjutant General

1 Incl
as

11 15 May 67

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DEPARTMENT OF THE ARMY
HEADQUARTERS II FIELD FORCE VIETNAM ARTILLERY
APO San Francisco 96266

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15 MAY 1967

SUBJECT: Operational Report - Lessons Learned for Quarterly
Period Ending 30 April 1967 (RCS CSFOR - 65) (U)

THRU: Commanding General
II Field Force Vietnam
APO 96266

THRU: Commanding General
United States Army Vietnam
ATTN: AVHGC-DH
APO 96307

THRU: Commander in Chief
US Army Pacific
ATTN: GPOP-OT
APO 96558

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

In compliance with AR 1-19, 26 May 1966, the Operational Report-Lessons
Learned for the period 1 February - 30 April 1967 is attached in sections I
and II.

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George R. Allin, Jr.

GEORGE R. ALLIN, Jr.
Colonel, Artillery
Commanding

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ACSFOR-RO File 8-87-4140
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HEADQUARTERS II FIELD FORCE VIETNAM ARTILLERY
APO SAN FRANCISCO 96266



OPERATIONAL REPORT - LESSONS LEARNED
QUARTERLY FOR PERIOD ENDING 30 APRIL 1967
(RCS CSFOR-65) (U)

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Section I - Significant Organization Activities

A. (FOUO) Administration/Personnel

1. Strength.

a. Headquarters and Headquarters Battery, II Field Force Vietnam Artillery is organized under TOE 6-501E with an authorized and assigned strength as of 30 April as follows:

<u>AUTHORIZED</u>			<u>ASSIGNED</u>		
<u>OFF</u>	<u>WO</u>	<u>EM</u>	<u>OFF</u>	<u>WO</u>	<u>EM</u>
34	2	159	32	2	170

b. Headquarters Battery, 8th Target Acquisition Battalion, 25th Artillery is organized under TOE 6-575E with an authorized and assigned strength as of 30 April as follows:

<u>AUTHORIZED</u>			<u>ASSIGNED</u>		
<u>OFF</u>	<u>WO</u>	<u>EM</u>	<u>OFF</u>	<u>WO</u>	<u>EM</u>
5	5	125	5	6	124

2. Gains and Losses.

a. Headquarters and Headquarters Battery, II Field Force Vietnam Artillery.

<u>GAINS</u>			<u>LOSSES</u>		
<u>OFF</u>	<u>WO</u>	<u>EM</u>	<u>OFF</u>	<u>WO</u>	<u>EM</u>
24	2	78	27	2	82

b. Headquarters Battery, 8th Target Acquisition Battalion, 25th Artillery.

<u>GAINS</u>			<u>LOSSES</u>		
<u>OFF</u>	<u>WO</u>	<u>EM</u>	<u>OFF</u>	<u>WO</u>	<u>EM</u>
0	1	12	0	0	15

3. Casualties.

There were no casualties during the period.

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4. Personnel Management.

a. HQ, II Field Force Vietnam Artillery S-1 Section continued to perform administrative functions for the headquarters and to monitor personnel action for all units assigned and under operational command of this headquarters. Casualty reports and efficiency report ratings of OPCON units are channeled through this section.

b. This headquarters sent two officers and four enlisted men on TDY with PROJECT OREGON for a period in excess of 90 days. The status of these individuals causes this headquarters to operate at reduced strength, as no replacements can be obtained while individuals are on TDY.

5. Rest and Recuperation Program.

The following out of country R&R trips were taken by members of this headquarters:

<u>LOCATION</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>
Bangkok	9	5	12
Hong Kong	1	0	4
Tokyo	4	3	11
Taipei	1	4	3
Manila	0	0	1
Hawaii	3	3	3

This headquarters' R&R program operates within the allocations given to II FFORCEV.

6. Morale.

The morale of this organization continues to be outstanding.

7. Awards and Decorations.

a. The following awards and decorations were presented during the period.

Legion of Merit	3
Bronze Star Medal	19
Army Commendation Medal	15
Air Medal	4

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b. This headquarters was delegated authority on 22 April 1967 to award the Bronze Star Medal and all lesser decorations to members of organizations listed below:

(1) Headquarters and Headquarters Battery, II Field Force
Vietnam Artillery

(2) 8th Target Acquisition Battalion, 25th Artillery

(3) 5th Battalion (AW)(SP), 2d Artillery

(4) Battery D (Machine Gun), 71st Artillery

(5) Battery I (Searchlight), 29th Artillery

8. Discipline, Law and Order.

The following judicial and nonjudicial actions were conducted for assigned units during this reporting period:

Article 15	5
Summary Court-Martial	0
Special Court-Martial	2

9. Safety.

Two vehicle accidents occurred during the period.

10. Civil Affairs.

During this reporting period the Staff Chemical Officer continued to exercise staff responsibility for the S5 programs of the 23d and 54th Artillery Groups, and 5th Bn, 2d Artillery. The 23d and 54th Artillery Groups and the 5th Bn (AW)(SP), 2d Artillery under operational control of this headquarters have established and continue to support the civic action program in many areas, primarily in the self-help construction program and the MEDCAP and English instruction programs. The groups and battalions carry out their civic action activities in the vicinity of their base camps and, when feasible, while on operations. The civic action program of HHB II FFORCEV Artillery has continued with the distribution of food, clothing, and USAID supplies to Honai Van Coi, a village hamlet located four miles north of Bien Hoa on Highway 1. The supplies have been used for minor self-help construction projects. In addition, there is a continuing project of English instruction being given to the children and teachers of the Honai Van Coi Orphanage. The medical Civic Action Program (MEDCAP) has continued in Honai Van Coi. Due to a shortage of qualified medical personnel, the MEDCAP team visits there only once a week, as contrasted to twice a week during the last reporting period.

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B. (S) Operations and Intelligence

1. (C) General

Operations and intelligence activities included many of the same projects reported in previous operational reports as well as initiation of several new projects. The plan for stationing of II FFORCEV Artillery units was revised again and refinements were made in the Harassment and Interdiction program. Extension of survey control to US and ARVN artillery units continued and a recommendation was submitted to USAFV for expansion of photogrammetric survey to other areas in the Corps Zone. The plan for providing artillery support for Special Forces camps and RF/PF outposts by II FFORCEV Artillery units was updated and continued emphasis was placed on the important assistance to RVN program.

2. (S) Changes in the Stationing and Missions of II FFORCEV Artillery Units. (For current plan see Inclosure 1)

a. Batteries H and I (SIT), 29th Artillery arrived in the Republic of Vietnam on 27 March 1967 and were assigned to II FFORCEV.

(1) Battery H was further attached to the 9th Infantry Division and staged at BMAR CAT becoming operational on 5 April 1967. The battery (- one platoon) deployed to the IV CTZ on 13 April 1967 under the operational control of the Senior Advisor, IV CTZ in accordance with MACV Secret message 03766, DTG 311225Z Jan 67, Subj: Artillery Mix in RVN (U). The other platoon deployed to DONG TAM on 15 April to support the 9th Infantry Division in that area.

(2) Battery I was attached to the 5th Battalion (AWSP), 2d Artillery and staged at their base camp area in LONG BINH, becoming operational on 4 April 1967. One platoon each deployed in support of the 1st, 9th and 25th Infantry Divisions.

b. The advance party of the 1st Battalion, 27th Artillery (155mm SP) arrived in country on 2 April 1967 with the main body arriving on 12 April. The battalion was assigned to the 23d Artillery Group and it is expected to become operational about 1 May 1967. The elements of the battalion will be deployed to PHU LOI, TAY NINH and DAU TIENG replacing the 2d Battalion, 11th Artillery (155mm T).

c. The 2d Battalion, 11th Artillery (155mm T), which is assigned to the 23d Artillery Group, deployed to I CTZ on 19 April 1967. This deployment occurred in conjunction with Operation OREGON and the battalion will remain in the I CTZ for an indefinite period.

d. Headquarters and Headquarters Battery, 2d Battalion, 32d Artillery (8"/175mm SP) moved to TAY NINH from CU CHI 17 April 1967. The Service Battery will also complete this move by 1 May. The relocation was made in order to place the Headquarters and Service units of the 2d Bn, 32d Arty

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in the vicinity of two of its firing units. Additionally, the battalion is now responsible for control of fires in the TAY NINH area.

3. (C) Air Defense Weapons in a Ground Support Role

The four firing batteries of the 5th Battalion (AW) (SP), 2d Artillery remained attached to the 1st and 25th Infantry Divisions. Each battery consisted of both M-42 twin 40mm guns and M-55 quad .50 machine guns. They were employed exclusively in a ground role to provide perimeter and convoy security and on search and destroy missions.

a. Toward the end of the period Battery C was detached from the 1st Infantry Division and attached on 24 April to the 9th Infantry Division, giving each of the three divisions one battery as originally planned.

b. While Battery D remained attached to the 25th Infantry Division, in addition to Battery B, four M-42's and four M-55's were detached from Battery D to provide security for a heavy battery at SUOI DA.

c. Both the M-42 and M-55 have proven very effective when utilized on perimeter security and convoy security missions. The ability to helilift the M-55 proved invaluable for additional fire power at temporary base camps and artillery fire support bases. The M-42, when used as a maneuver vehicle on search and destroy missions, developed serious maintenance problems. In comparison to a tank, the M-42 is not as heavily constructed, with the armor plating and overall weight considerably lighter. The M-42 is powered by a gasoline engine rather than the diesel engine of a tank and extended driving at low speed through difficult terrain causes excessive wear on the engine and transmission.

d. USARV has conducted a study considering the trade-off of some M-42's for additional quad .50 machine gun batteries. In a Confidential letter to II FFORCEV dated 29 March 1967, Subject: Acquisition of Additional Quad .50 Machine Gun Batteries (U), this headquarters recommended that no change in composition of the 5th Bn (AWSF), 2d Artillery be made until more experience is gained under all weather conditions. This recommendation was forwarded to USARV by II FFORCEV.

4. (C) Harassment and Interdiction (H & I) Program

During this reporting period, a continuing study to improve the program resulted in two modifications.

a. The time delay in receipt of intelligence from six widely separated sources was reduced by adding this headquarters as an addressee to their electrically transmitted INTSUMS. Previously, only hard copy INTSUMS from these sources had been received through normal distribution channels.

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b. The time required to clear targets for firing through both US and ARVN channels has been excessive. Although former procedures allowed for rapid clearance of a few selected targets, based on intelligence received after the daily program had been finalized, the normal time required for the H&I program was about 36 hours. All H&I targets are now selected, cleared, and fired the same day and there has been no problem on obtaining clearances.

5. (S) Support of Special Forces and RF/PF Outposts

During this period II FFORCEV Artillery updated plans for support of Special Forces and RF/PF outposts. All units of II FFORCEV Arty have been furnished a list of SF and critical RF/PF outposts in III CTZ and responsibilities for providing these outposts fire support have been assigned. Designated units will provide fire support from base camp locations to outposts within range. Units have made plans for displacing by land or by air to pre-selected firing positions in order to provide artillery fire support to outposts not within range of base camps.

6. (S) Assistance to ARVN

II FFORCEV Artillery continued to emphasize the assistance to ARVN program; artillery support was provided upon request, frequent liaison visits were made and instruction on artillery adjustment was conducted for many ARVN and RF/PF forces.

a. As mentioned in paragraph 5 above, the program for providing artillery support to remote RF/PF outposts and SF camps has been updated. This headquarters has also assisted ARVN units in establishing a similar program. One 105mm battery of the 5th ARVN Division has received the ground portion of training in helilift operations. This battery will conduct actual operations in the near future. The 18th and 25th ARVN Divisions will also be incorporated into this program later.

b. In addition to providing artillery support from base camp locations on a continuing basis, II FFORCEV Artillery units displaced in support of ARVN operations on eleven different occasions.

c. Instruction of RF/PF personnel continues to be an important part of the assistance to ARVN program. During this reporting period the following actions were accomplished:

(1) Officers from FSGE made a follow-up visit to LONG AN Sector headquarters for quarterly refresher training for RF/PF forces who had received observed fire training in January 1967.

(2) Observed fire instruction for twenty RF personnel from NUOC VANG outpost in the vicinity of PHUOC VINH was conducted by members of the 6th Battalion, 27th Artillery.

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(3) Personnel from the FSCE met with the 5th ARVN Division Artillery Commander and his US advisors on 1 April concerning US artillery support for the one hundred eighty-nine RF/PF outposts in the 5th Division TAOR. A program has been established whereby officers from FSCE will accompany training teams and assist in teaching RF/PF personnel to better utilize the artillery support available.

c. This headquarters continues an active program of liaison visits by the Commanding General, Deputy Commander, and members of the S-3 section to ARVN artillery headquarters. The III Corps Artillery Advisor makes frequent visits to this headquarters and, through the II FFORCEV Artillery Liaison Officer to III ARVN Corps, both headquarters are provided information concerning present and future artillery employment. The 23d and 54th Artillery Groups also conduct regular liaison visits to the ARVN Divisions in their respective areas and close coordination is maintained.

7. (C) Programs to Increase the Accuracy of Artillery

II FFORCEV Artillery continues to emphasize the need for accuracy in the employment of artillery. The meteorological, survey and calibration programs have been stressed continuously in order to provide the most accurate data to the units in II FFORCEV.

a. Artillery Ballistic Meteorology (Metro)

(1) During this reporting period the 1st Division Artillery's metro section became operational at PHU LOI and the 9th Infantry Division Artillery Metro Section moved from BEAR CAT to DONC TAM (IV CTZ). A current list of metro sections and their locations is as follows:

(a) 1st Inf Div Arty	PHU LOI
(b) 9th Inf Div Arty	DONG TAM
(c) 25th Inf Div Arty	CU CHI
(d) 6/27 th Arty	PHUOC VINH
(e) 8/25 th Arty (TAB) Sec A	QUAN LOI
(f) 8/25 th Arty (TAB) Sec B	LONG BINH
(g) 2/32d Arty	TAY NINH
(h) 2/35th Arty	XUAN LOC
(i) 1/83d Arty	NUI DAT
(j) 1/27th Arty	To be deployed to DAU TIENG

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(2) Plans have been made to deploy metro sections concurrently with the artillery units that will occupy the BEN LUC and HAM TAN firing positions. When operational, these metro sections will provide additional coverage over a large portion of the III CTZ not previously covered.

(3) An Army-wide shortage of radiosondes has existed for the past five or six months. On 25 January 1967, this headquarters received information from USARV that this shortage might become more acute in the next few months. A program was initiated during this period whereby certain metro sections flew only two electronic flights per day. A visual sighting was made between each electronic flight providing supplemental information for the preparation of the MET message disseminated every six hours to using units. This practice was initiated during the dry season in order to conserve radiosondes for the monsoon season beginning in late April. With the decrease in usage of radiosondes and the filling of back requisitions, sufficient radiosondes are now on hand to resume four electronic flights per day at all metro sections. If requisitions continue to be filled the shortage of radiosondes will be eliminated in II FFORCEV.

b. Calibration of Artillery Pieces

(1) During this reporting period 136 of 426 US and 54 of 136 ARVN artillery pieces were calibrated. The 177th Ordnance Detachment Calibration Team provides this calibration support for all the artillery pieces in RVN. The team spends fifteen days of each month with II FFORCEV Artillery in III CTZ and the remaining fifteen days with I FFORCEV Artillery.

(2) Since the initiation of this calibration program in June 1966, 570 US and 142 ARVN artillery pieces have been calibrated. The volume of firing in a combat situation and the replacement of unserviceable tubes necessitates more frequent calibration than the annual requirement. The wide dispersion of artillery units and the fact that the team must divide its time between II FFORCEV Artillery and I FFORCEV Artillery makes it difficult for the calibration team to meet commitments. Artillery units do not always receive timely calibration.

(3) The addition of four artillery battalions in the next quarter will add 66 artillery pieces for a total of 492 US artillery pieces in the III CTZ. If troop programs permit, a calibration team should be made available to I FFORCEV on a permanent basis.

c. Survey

(1) Since the Corps Artillery program was initiated, survey control has been extended to all US/PWMAF base camps and to all but four ARVN artillery platoons, to which survey will be completed soon. The current status of survey control in III CTZ is shown at Inclosure 3. Future plans are to assist the artillery groups/division artilleries as required and to further extend survey control in III and IV CTZ's.

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(2) The previous report described a proposal to supplement existing survey control in III CTZ by an application of photogrammetry. A test of the concept was conducted during the period 31 January - 4 April 1967 by II FFORCEV Artillery and 1st and 25th Division Artillerys with highly satisfactory results. Accuracies comparable to conventional survey were obtained, resulting in rounds saved in adjustment, ability to mass fires, and for the first time in Vietnam, a limited target area survey capability. The test report is at Inclosure 4. Results of this test have been forwarded to CG USARV with the recommendation that this process be adopted and used to extend control to all inaccessible areas of III CTZ.

8. (C) Safeguarding Aircraft from Friendly Artillery Fires

The FSCF continued to monitor the coordination of air space between air and artillery in the III CTZ. The current regulation concerning broadcast of warnings to aircraft of artillery firing was an inclosure to the last operational report of this headquarters. Based on experience gained during the last quarter of calendar year 67, this regulation has been revised to cover a greater portion of IIIC TZ, to realign areas assigned to Air Warning Control Centers to take advantage of identifiable terrain features, and to improve procedures for passing warnings to aircraft. This revision prescribes that pilots will request route clearance rather than information on all artillery firing in a given area. Also the revision will improve the procedures for safeguarding high performance aircraft.

9. (U) US/ARVN Standardization of Terminology and Procedures

FSCF coordinated with Deputy Senior Advisor, (DSA), III CTZ, on a project to standardize definitions and procedures pertaining to the assignment of tactical areas and the clearing of artillery fires and air strikes. A draft document which defines terms and prescribes procedures has been prepared and will be published as a Joint II FFORCEV/III Corps Directive after further staffing by the two headquarters.

10. (C) Communications

a. The II FFORCEV Artillery Communications Section continued its mission of coordinating the installation and operation of VHF, AM and FM communication facilities. With an increase in tactical operations during this reporting period, many UHF lines were established as units occupied various temporary locations or new base camp positions. The 5th Battalion (AWSP), 2d Artillery became operational in December 1966 and entered the II FFORCEV Artillery RATT net in February 1967. New VHFTT links to the 23d and 54th Artillery Groups were established during this period, providing more reliable communications during all types of weather conditions.

b. The number of classified messages processed through the II FFORCEV Artillery message center increased from 3000 last reporting period to 4000 this period.

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11. (S) Aircraft for Artillery Units

a. The adverse effect of inadequate organic aviation on the commanders' ability to influence actions of their widespread units, on the quality of reconnaissance and survey operations and on administration and logistical support has been cited in all previous operational reports. The efforts made by this headquarters to obtain additional aircraft was also discussed. With the arrival of two additional artillery battalions in June, this problem will become more acute.

b. Experience gained thus far in the Republic of Vietnam indicates that fully effective artillery operations are not feasible without aircraft organic to groups and battalions. The required number of aircraft for II FFORCEV Artillery is in Section II, Part II under "RECOMMENDATIONS".

12. (S) Requirements for Additional Counter-Mortar Radar Sets

a. The need for additional counter-mortar radars in the III CTZ has been stressed in all previous operational reports. With the arrival of more troop units and the establishment of more base camps, the requirement for these sets has increased; forty-three additional radar sets are now needed in II Field Force Vietnam.

b. Section I, paragraph 6, of the last operational report discussed a study illustrating the effectiveness of these counter-mortar radars when utilized in locating enemy mortar positions. During the period 1 March to 19 April 1967, 166 mortar attacks were reported, delivering approximately 4,012 rounds of 60, 81 and 82mm mortars, and resulting in 142 KIA and 565 WIA. It is apparent that there is an increasing need for more counter-mortar radar detachments. If the current review of the over-all force structure should develop additional spaces, a high priority should be given to providing 43 more counter-mortar radar detachments for the III CTZ.

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Section II, Part I - Observation/Lessons Learned

SURVEY OPTICAL SIGHTINGS

Item: Adverse weather conditions affecting optical sightings in III CTZ.

Discussion: During the months of February, March and April, long distance sighting (in excess of 30 kilometers) should not be planned. Between the altitudes of 300-2000 feet, the atmosphere is generally obscured by a dense haze of smoke, mist and dust. Line of sight is usually limited to 10-30 kilometers. Occasional periods of rainfall temporarily clear the atmosphere and improve observation.

Observation: The weather in III CTZ must be considered when planning survey operations that require optical sightings in excess of 30 kilometers.

EMPLOYMENT OF THE M-42 TWIN 40mm GUN

Item: Utilization of the M-42 as a maneuver vehicle on search and destroy missions.

Discussion: As discussed in Section I, paragraph B3, the M-42 develops serious maintenance problems when used as a maneuver vehicle on search and destroy missions. In-country direct support maintenance facilities are extremely limited and repair parts for the M-42, out of production for over ten years, are in short supply. The following is a summary of major maintenance required to date comparing the M-42's used primarily as a maneuver vehicle vs the M-42's when used primarily on other missions.

<u>BATTERIES</u>	<u>ENGINES REQUIRING REPLACEMENT</u>	<u>TRANSMISSIONS REPLACED</u>	<u>FINAL DRIVES REPLACED</u>	<u>ROAD WHEELS REPLACED</u>
A&C (Maneuver)	41	8	6	82
B&D (Non-maneuver)	5	2	1	14

Observation: The M-42 can best be used for perimeter and convoy security and on blocking force missions. The weapon can also provide effective H&I fires. Considering the maintenance facilities available and the construction of the M-42, these weapons should not be used on search and destroy missions.

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BATTERIES BA-200/U

Item: Problems encountered with the BA-200/U in the Republic of Vietnam.

Discussion: Batteries BA-200/U are in short supply in the Republic of Vietnam. Due to the extreme heat and humidity encountered in RVN these batteries have a short life expectancy. This headquarters has a common use for these batteries in the SB-86 Switchboard and has utilized wet cell batteries in lieu of BA-200/U batteries. The wet cell batteries should be arranged to provide 24 VDC.

Observation: Utilizing wet cell batteries in place of the dry battery, BA-200/U, eliminates the problem of frequent replacement and is an economical expedient since the wet cell batteries can be periodically recharged and will function for an indefinite length of time.

AM FREQUENCIES

Item: Utilization of AM frequencies between 2-3 MC.

Discussion: Many units are assigned tactical AM frequencies between 2-3 MC, and are experiencing difficulty in maintaining communications over relatively short distances. This is particularly true of those units utilizing radio sets AN/GRC-19 and Radio TT Set AN/GRC-46. It appears the five section whip antenna is extremely poor in the 2-3 MC range, radiating only about 1/7 of the maximum available power of either of the two sets.

Observation: This headquarters has found that the doublet antenna is best for this communications equipment. Properly matched, the doublet will radiate all of the available power.

PERIMETER SECURITY

Item: Employment of searchlights and automatic weapons.

Discussion: As discussed in Section I, paragraph E2, the searchlight platoons deployed during this reporting period in support of the divisions. The majority of the searchlights are being used for perimeter security at base camps and fire support bases. Each platoon has an organic light direction center (LDC) which is similar to a fire direction center. The lights are directionally controlled by azimuth and elevation commands received from the LDC. The M-42's and M-55's of the 5th Battalion, 2d Artillery can also be directionally controlled by azimuth and elevation commands. Therefore, upon discovering a target using infra-red, the searchlight (LDC) can easily transfer data to the M-42's or M-55's for responsive fire support.

Observation: The searchlight provides the automatic weapons with a much needed night acquisition capability.

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Section II, Part 2 - Recommendations

A. (C) Radio Set AN/GRC-46.

During this reporting period the communications section of II FFORCEV Artillery experienced difficulty in keeping AN/GRC-46's operational. The age of the radios and lack of spare parts contributed to the problem; however, the major factor is the over-heating of the radios. Tests conducted by this headquarters show the average ambient temperature inside the vans (Electrical Equipment Shelter S-89 C/G) to be approximately 140 degrees F. Whenever possible radios have been removed from the vans and placed in bunkers, lessening the ambient temperature somewhat, however, this action is not always possible. The installation of an air conditioner in the equipment van would reduce ambient temperature and make the AN/GRC-46 much more reliable. The replacement of AN/GRC-46's with the new radio sets AN/GRC-142 and 122 will eliminate part of the problem with the AN/GRC-46.

RECOMMENDATION:

That air conditioning be made available and authorized for installation in the Electronic Equipment Shelter S-89 C/G and that the issue of the new radio sets AN/GRC-142 and 122 be expedited.

B. (S) Countermortar Radar Sets.

As mentioned in all previous Operational Reports and in Section I, paragraph E14, there is a definite need for 43 additional countermortar detachments previously incorporated in the Troop Program.

RECOMMENDATION:

That if the review of the overall force structure should develop additional spaces, a high priority be given to reinstating the required countermortar radar detachments into the troop program.

C. (S) Aircraft for Artillery Units.

As stated in Section I, paragraph E13, and recommended in other previous Operational Reports, the full potential of the artillery in III CTZ will not be realized until adequate aircraft support is provided.

RECOMMENDATION:

That, as a matter of high priority, II FFORCEV Artillery be provided with aircraft on the following basis:

- (1) Force Artillery Headquarters: Four UH-1's and three C-1's.
- (2) Group Headquarters: Three C-1's, two OH-13's and one U-6.
- (3) Artillery Battalion: Two C-1's and one OH-13.

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D. (C) Application of Photogrammetry to Survey.

In Section I, paragraph B7c, the application of photogrammetry to provide survey control points was discussed. The results of the test were entirely successful and further expansion of this program would provide needed survey control in areas of operations in III CTZ.

RECOMMENDATION:

That the photogrammetric survey control program be adopted and expanded to include all areas in III CTZ with priorities to LONG AN, HAU NGHIA, BINH DUONG, PHUOC TUY and LONG KHANH Provinces.

E. (C) Calibration of Artillery Pieces.

A calibration team on a full time basis is required by II FFORCEV Artillery. The present calibration team furnishes adequate support for US artillery units; however units do not always receive calibration when desired due to the team's absence or the changing tactical situation.

RECOMMENDATION:

That a calibration team be provided to directly support II FFORCEV Artillery on a permanent basis.

George R. Allin, Jr.

GEORGE R. ALLIN, Jr.
Colonel, Artillery
Commanding

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LOCATION	AS OF 31 JAN 67	AS OF 30 APRIL 67	(PLANNED AS OF 30 JUNE 67) (Arrival month of incoming units in parentheses)
BEAR CAT	7/9th Arty (105mm T)	7/9th Arty (105mm T)	7/9th Arty (105mm T)
	Btry B, 1/83d Arty (8"/175mm SP)	Btry B, 1/83d Arty (8"/175mm SP)	
		Btry C, 5th Bn (AMSP), 2d Arty	Btry C, 5th Bn (AMSP), 2d Arty
		1 Plt, Btry I (SLT), 29th Arty	1 Plt, Btry I (SLT), 29th Arty
BEN LUC			HQB, Svc, 1 FB, 7/8th Arty (8"/175mm SP) (June 67)
			1 FB, 3/16th Arty (155mm T) (June 67)
BIEN HOA	Btry C, 2/35th Arty (155mm SP)		1 FB, 7/8th Arty (8"/175mm SP) (June 67)
CU CHI	HQB, Svc, Btry A, 2/32d Arty (8"/175mm SP)	Btry A, 2/32d Arty (8"/175mm SP)	Btry A, 2/32d Arty (8"/175mm SP)
		Btry B, 5th Bn (AMSP), 2d Arty	Btry B, 5th Bn (AMSP), 2d Arty
		1 Plt, Btry I (SLT), 29th Arty	1 Plt, Btry I (SLT), 29th Arty

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LOCATION	AS OF 31 JAN 67	AS OF 30 APRIL 67	(PLANNED AS OF 30 JUNE 67) (Arrival month of incoming units in parentheses)
DAU TIENG	Btry B, 2/11th Arty (155mm T) (see note)		1 FB, 1/27th Arty (155mm SP) (May 67)
DONG TAN		1 Plt, Btry H (SLT), 29th Arty	1 Plt, Btry H (SLT), 29th Arty
			1 FB, 7/8th Arty (8"/175mm SP) (June 67)
CO DAU HA	Btry C, 2/11th Arty (155mm T) (see note)		
DAM TAN			1 FB, 1/83d Arty (8"/175mm SP)
LAI KHE	Btry B, 2/32d Arty (6"/175mm SP)		
	Btry A, 6/27th Arty (8"/175mm SP)		
LONG BINH	HQB, 8/25th Arty (TAB)	HQB, 8/25th Arty (TAB)	HQB, 8/25th Arty (TAB)
	Svc, 6/27th Arty	Svc, 6/27th Arty	Svc, 6/27th Arty
	Svc, 2/35th Arty	Svc, 2/35th Arty	Svc, 2/35th Arty
	HQB, 5th Bn (ANSP), 2d Arty	HQB, 5th Bn (ANSP), 2d Arty	HQB, 5th Bn (ANSP), 2d Arty
		HQ, Btry I (SLT), 29th Arty	HQ, Btry I (SLT), 29th Arty
LONG GIAO			1 FB, 3/16th Arty (155mm T) (June 67)

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LOCATION	AS OF 31 JAN 67	AS OF 30 APRIL 67	(PLANNED AS OF 30 JUNE 67) (Arrival month of incoming units in parentheses)
NUI DAT	Btry A, 2/35th Arty (155mm SP)	Btry A, 2/35th Arty (155mm SP)	Btry A, 2/35th Arty (155mm SP)
	HHB, Svc, Btry A, 1/83d Arty (8"/175mm SP)	HHB, Svc, Btry A, 1/83d Arty (8"/175mm SP)	HHB, Svc, Btry A, 1/83d Arty (8"/175mm SP)
PHU LOI	HHB, 23d Arty Gp	HHB, 23d Arty Gp	HHB, 23d Arty Gp
	2/13th Arty (105mm T)	2/13th Arty (105mm T)	2/13th Arty (105mm T)
	HHB, Svc, Btry A, 2/11th Arty (155mm T) (See note)		
PHUOC VINH		1 Plt, I Btry (SLT), 29th Arty	1 Plt, I Btry (SLT), 29th Arty
		Btry A (AWSP), 5th Bn, 2d Arty	Btry A (AWSP), 5th Bn, 2d Arty
			HHB, Svc, 1 FB, 1/27th Arty (155mm SP)
QUAN LOI	HHB, C/6/27th Arty (8"/175mm SP)	HHB, C/6/27th Arty (8"/175mm SP)	HHB, C/6/27th Arty (8"/175mm SP)
		Btry A, 6/27th Arty (8"/175mm SP)	Btry A, 6/27th Arty (8"/175mm SP)
SUOI DA		Btry B, 2/32d Arty (8"/175mm SP)	Btry B, 2/32d Arty (8"/175mm SP)
TAY NINH	Btry C, 2/32d Arty (8"/175mm SP)	HHB, Svc, Btry C, 2/32d Arty (8"/175mm SP)	HHB, Svc, Btry C, 2/32d Arty (8"/175mm SP)
			1 FB, 1/27th Arty (155mm SP)

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LOCATION	AS OF 31 JAN 67	AS OF 30 APRIL 67	(PLANNED AS OF 30 JUNE 67) (Arrival month of incoming units in parentheses)
XUAN LOC	HQB, 54th Arty Gp	HQB, 54th Arty Gp	HQB, 54th Arty Gp
	Btry C, 1/83d Arty (8"/175mm SP)	Btry C, 1/83d Arty (8"/175mm SP)	Btry C, 1/83d Arty (8"/175mm SP)
	HQB, Btry B, 2/35th Arty (155mm SP)	HQB, Btrys B, C, 2/35th Arty (155mm SP)	HQB, Btrys B, C, 2/35th Arty (155mm SP)

NOTE:

2d Battalion, 11th Artillery departed III CTZ on 19 April 1967 for deployment to I CTZ on Operation OREGON.

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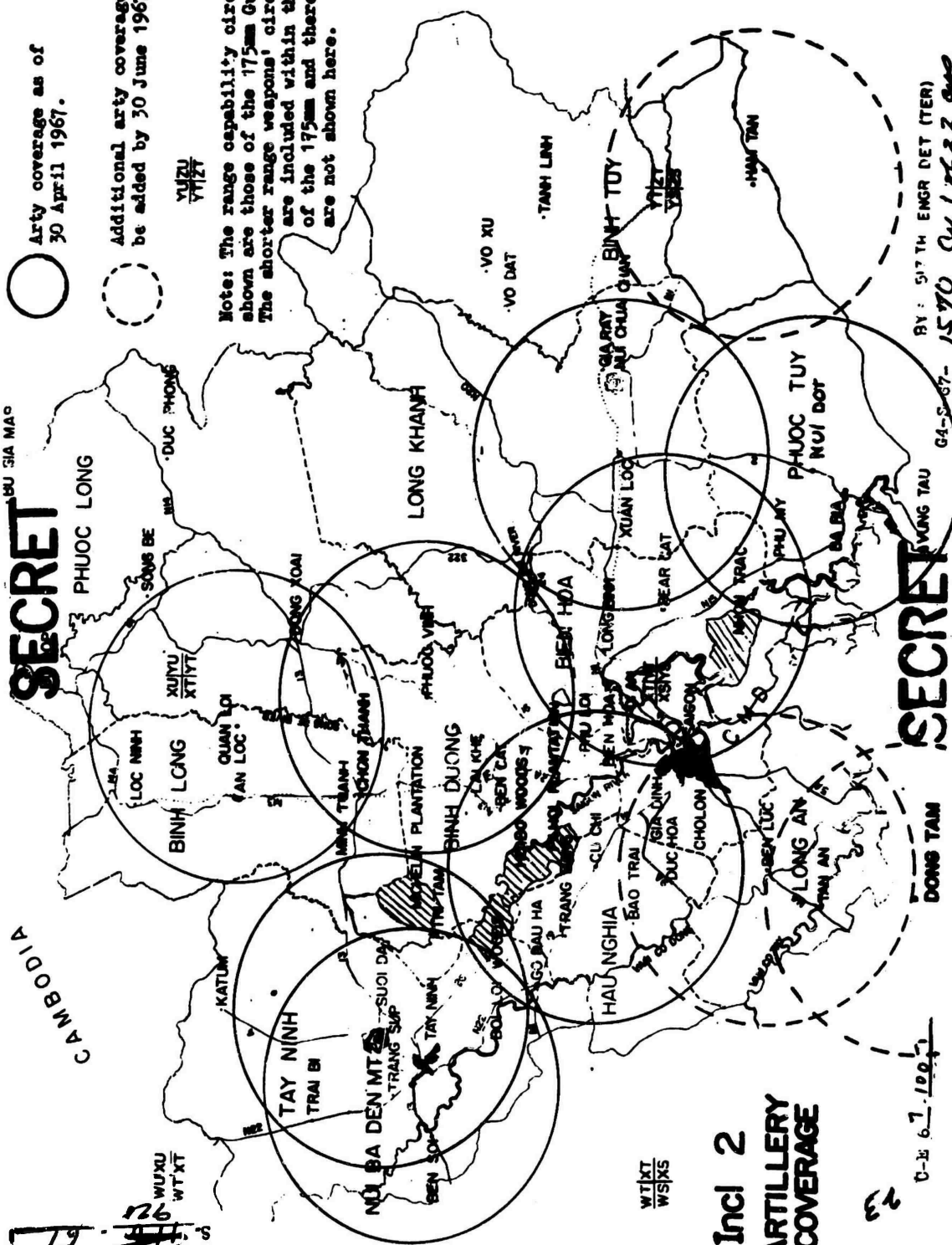
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Arty coverage as of
30 April 1967.

Additional arty coverage to be added by 30 June 1967.

$$\frac{v_1 v_2}{v_1 + v_2}$$

Note: The range capability circles shown are those of the 175mm Guns. The shorter range weapons' circles are included within those of the 175mm and therefore are not shown here.



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DONG TAM

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Incl 2
ARTILLERY
COVERAGE

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Third-order control established by Topographic Engineer Companies (Corps).

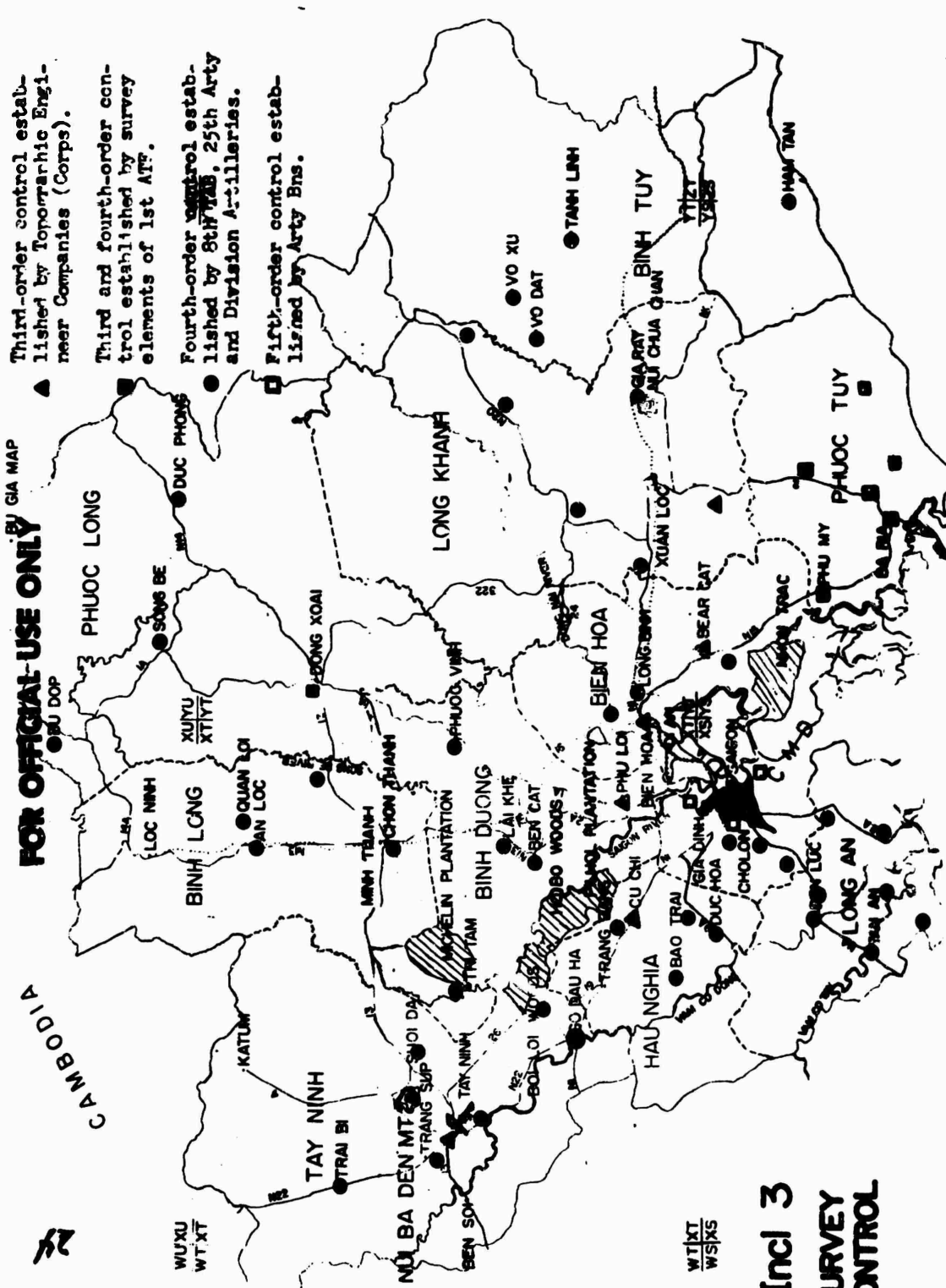
Third and fourth-order control established by survey elements of 1st Art.

Fourth-order control established by 8th AGAS, 25th Art and Division Artilleries.

Fifth-order control established by Art Bns.

FOR OFFICIAL-USE ONLY • BU GIA MAP

U GIA MAP



BY: SUTM ENGR DET (TER)

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Incl 3
SURVEY
CONTROL

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DEPARTMENT OF THE ARMY
Headquarters, II Field Force Vietnam Artillery
APO San Francisco 96266

After Action Report (Project Wayside) (U)

1. (C) Background Information:

a. Artillery units deployed to South Vietnam initially operated without survey or with limited survey control based on assumed local data. The Engineer Topographic Company and the Field Artillery Target Acquisition Battery established survey control for all US artillery in base camps by the end of January 1967. Target area survey was non existent and very limited survey control existed for artillery units on operations out of base camp locations.

b. USARV submitted a proposal to provide a solution to the problem of inadequate survey control. II FFORCEV stated that the proposal appeared to be highly desirable and should be initiated immediately.

c. CG USARV directed II FFORCEV to select an area and to conduct a test of the photogrammetric concept of providing survey control points. The area known as "War Zone C" was selected.

2. (C) Conduct of the Test

a. The photogrammetric material, consisting of XYZ coordinates of control points, photographs, overlays, and trig lists was received in January 1967.

b. The 8th Battalion 25th Artillery Target Acquisition Battery checked the coordinates of three photogrammetric points by conventional survey methods. There was an average discrepancy of 9 meters northing 11 meters easting and 9 meters in height from surveyed coordinates. A preliminary firing test utilizing a light and heavy artillery battery was also conducted with satisfactory results.

c. The evaluation of the photogrammetric proposal was conducted during the period 31 January - 4 April 1967 using six light, six medium, and three heavy artillery batteries participating in Operation "Junction City".

d. The use of photogrammetric survey control produced the following results:

INCLOSURE 4

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After Action Report (Project Wayside) (U)

(1) Artillery batteries were provided with data which allowed registration on common surveyed points and facilitated massing of fires.

(2) The first round accuracy of artillery was increased and resulted in saving of rounds during adjustment.

(3) Targets were attacked in areas containing photogrammetric control with minimum adjustment thus exploiting the element of surprise.

e. The following points were noted during the conduct of the test:

(1) The 1:12,500 and 1:5,000 scale photographs were too unwieldy for use by aerial observers.

(2) Photogrammetric information on 1:25,000 scale pictomaps necessitated two sets of maps, since the fire direction maps and equipment are 1:50,000 scale.

(3) Registrations/checkpoints on the photographs using vegetation were most difficult to identify.

(4) The network of position area, registration and check points was not of sufficient density and there were large areas without a survey control point. A density of one point each 2000 meters is desirable.

(5) The survey control points were classified as position areas, registration and checkpoints. This was not necessary as all points can be used for either purpose.

(6) The coordinates of photogrammetric positions should be on front of photographs for convenience.

(7) The numbering system used for the photogrammetric points precluded rapid matching of photos and overlays. The points have to be checked against the mission number on the legend of the overlays to select the proper photograph. Additionally, this created a filing problem.

3. (C) Conclusions:

a. The photogrammetric concept is feasible and is a valuable supplement to conventional survey methods to provide survey control for III CTZ.

b. The process provided a limited target area survey for the first time in III CTZ.

c. The difficulties encountered were minor and presented no serious obstacles to conducting the test or using the data.

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After Action Report (Project Wayside) (U)

4. (C) Recommendations:

- a. That the photogrammetric process be immediately extended to other areas of III CTZ where marginal survey control exists.
- b. That all photography be of 1:25,000 scale.
- c. That the photogrammetric overlays be 1:50,000 scale.
- d. Survey control points be selected in the following priorities:
 - (1) Road Junctions
 - (2) Junction of Roads and Streams
 - (3) Man made objects
 - (4) Prominent Hill masses
 - (5) Trail intersections
 - (6) Prominent curve in a Road
 - (7) Prominent bend in a Stream

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II FFORCEV
S. 920/1-67
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AVFBC-H 1st Ind
SUBJECT: Operational Report for Quarterly Period Ending 30 April 1967
Headquarters, II Field Force Vietnam Artillery (u)

DA, HQ II FFORCEV, APO San Francisco 96266 29 MAY 1967

THRU: Commanding General, USARV, ATTN: AVHGC-DH, APO 96307

Commander in Chief, US Army Pacific, ATTN: GPOF-MH, APO 96558

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

1. (U) Subject report is forwarded.
2. (S) Pertinent comments follow:

a. Reference Para A, page 13 of Section II, Part 2. Concur. The Army Material Command (AMC) has advised USARV that Air Conditioner units are not authorized for the AN/GRC-46. AN/GRC-142 and AN/GRC-122 radio sets are issued in the priority indicated on the USARV distribution plan. The forecast calls for distribution to arty units to commence 1st qtr FY 68 and to be completed by 2d qtr FY 68 providing procurement and shipping proceeds as planned.

b. Reference Para B, page 13 of Section II, Part 2. Concur and recommend that 43 additional countermortar detachments be reinstated in the troop program.

c. Reference Para C, page 13 of Section II, Part 2 concerning the requirement for additional aircraft: This headquarters recognizes a requirement. A shortage of aircraft presently exists in units authorized TOE aircraft and in some separate aviation units. These critical shortages preclude the issue of additional aircraft to artillery units at this time. II Field Force Vietnam (II FFORCEV), through the 12th Aviation Group, controls the assets of separate aviation units in its area, including surveillance airplane companies. Mission requirements beyond the capability of assigned aircraft will continue to be coordinated by II FFORCEV in accordance with priorities established by this headquarters.

FOR THE COMMANDER:

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JAMES A. ULVENES
CPT, AGC

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AVHGC-DST (15 May 67) 2d Ind
SUBJECT: Operational Report-Lessons Learned for the Period Ending
30 April 1967 (RCS CSFOR-65) (U)

HEADQUARTERS, UNITED STATES ARMY VIETNAM, APO San Francisco 96307 7 JUL 1967

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

1. (U) This headquarters has reviewed the Operational Report-Lessons Learned for the period ending 30 April 1967 from Headquarters, II Field Force Vietnam Artillery as indorsed.

2. (S) Pertinent comments follow:

a. Reference item concerning calibration of artillery pieces, paragraph B7b, page 8; and paragraph E, page 14: An additional calibration capability is not available in-country nor is an additional capability provided for in Program 4. Since the present calibration team apparently furnishes adequate support a request for an additional team would fall in a non-essential category. However, another calibration team has been requested from Okinawa and II Field Force has been notified.

b. Reference item concerning photogrammetry, paragraph 7c(2), page 9; and paragraph D, page 14: The concept was forwarded to MACV with a recommendation for adoption and requirements are now being established for specific areas of operational interest applicable to photogrammetric control. III CTZ inaccessible areas are being included in the program.

c. Reference item concerning utilization of the M42 as a maneuver vehicle, page 11: Concur. USARV message AVHGD-MD 38387, DTG 020145Z December 1966 advised units of maintenance and supply support problems and recommended close and continuous control be established over operation and maintenance to avoid non-essential use.

d. Reference item concerning problems encountered with BA-200/U, page 12: At the present time, there are adequate stocks of BA-200/U batteries in country. Although temporary shortages of certain batteries may occur at one or more sites, cross-leveling of in country stocks generally corrects the shortage. Emergency procedures are available for obtaining assets on an expedited basis from USARPAC. The automatic resupply system of batteries reduces exposure to extreme heat and humidity to the minimum.

e. Reference item concerning Radio Set AN/GRC-46, paragraph A, page 13; and paragraph 2a, 1st Indorsement: Concur with unit recommendation. Due to conditions of heat and humidity, it is strongly recommended

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Cy. 1 of 5 Cys
Pg. 1 of 2 Pgs

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31
AVHGC-DST (15 May 67)

2d Ind

SUBJECT: Operational Report-Lessons Learned for the Period Ending
30 April 1967 (RCS CSFOR-65) (U)

that consideration be given to providing air conditioning for AN/GRC-46
radio shelters. This Headquarters is advised that the earliest avail-
ability date of the AN/GRC-142 and 122 radios is late 2d Quarter of
FY 68.

FOR THE COMMANDER:


E. L. KENNEDY
CPT, AGC
Asst Adjutant General

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nc

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1577
C7 1 of 5 Cys
Pg 2 of 2 Pgs

SECRET

32

GPOP-DT(15 May 67) 3d Ind (S)
SUBJECT: Operational Report-Lessons Learned for the Period Ending
30 April 1967 (RCS CSFOR-65), HQ II FFV Arty

HQ, US ARMY, PACIFIC, APO San Francisco 96558 4 AUG 1967

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

(S) This headquarters has reviewed subject report and concurs in
the report, as indorsed, with the following comments:

a. Reference paragraph 2e, 2d indorsement. The present
forecast for introduction of the AN/GRC-142 and AN/GRC-122 is 65
per month beginning in October 1967. Since these radios are replace-
ments for the AN/GRC-46, non-concur in authorizing air conditioning for
the AN/GRC-46.

b. Reference paragraph 2a, 2d indorsement. USARPAC Materiel
Management Agency message 19190, DTG 140410Z to CG WECOM contains the
mission support plan for the Radar Chronograph. This equipment,
scheduled for distribution in 3d Quarter FY 68, provides organic cali-
bration capability down to and including Division Artillery. WECOM was
requested to provide the impact which this equipment would have on the
present calibration teams in theater. Receipt of this equipment will
solve calibration problems in USARV.

FOR THE COMMANDER IN CHIEF:



HEAVRIN SNYDER
CPT, AGC
Asst AG

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