### UNCLASSIFIED

#### AD NUMBER

| AD508206 |

#### CLASSIFICATION CHANGES

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#### LIMITATION CHANGES

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<td>Controlling DoD Organization: Assistant Chief of Staff for Force Development, Washington, DC 20310</td>
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#### AUTHORITY

GDS per DoD 5200.1-r; Adjutant General’s Office [Army] ltr dtd 29 Apr 1980

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

17 March 1970

SUBJECT: Operational Report - Lessons Learned, Headquarters, 101st Airborne Division Artillery, Period Ending 31 October 1969 (U)

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1. Subject report is forwarded for review and evaluation in accordance with paragraph 4b, AR 525-15. Evaluations and corrective actions should be reported to ACSFOR OT UT, Operational Reports Branch, 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.

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[Signature]

ROBERT E. LYNCH
Colonel, AD
Acting The Adjutant General

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DEPARTMENT OF THE ARMY
Headquarters 101st Airborne Division Artillery (Airborne)
APO San Francisco 96383

15 November 1969

SUBJECT: Operational Report - Lessons Learned Headquarters 101st Airborne Division Artillery (Airborne) period ending 31 October 1969

CSFOR-65 (AD)

S.E DISTRIBUTION:

1. (U) REFERENCES:
   a. Supplement Number 1 to AR 525-15
   b. 101st Abn Div (Ambl) Reg 525-4

2. (U) Operations Report - Lessons Learned required by cited references is submitted for the period 1 August 1969 to 31 October 1969.

3. (C) SECTION 1. Operations, Significant Activities:
   a. On 1 August 1969 101st Abn Div Artillery (Ambl) was employed as follows:
      (1) Hq & Hq Battery, 101st Abn Div Artillery (Ambl), allocated with Division Headquarters at Camp Eagle (YTB41453).
      (2) Division Artillery Task Organization:

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<td>Btry B</td>
<td>FSB Bercichsgaden</td>
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15 November 1969

**AVDE-DAC**

**SUBJECT:** Operational Report - Lessons Learned Headquarters 101st Airborne Division Artillery (Airmobile) period ending 31 October 1969

CSPOR-65 (RL)

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Operational Report - Lessons Learned Headquarters 11th Airborne Division Artillery (Airmobile) period ending 31 October 1969
CSFOR-65 (RL)

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<td>Btry B</td>
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<tr>
<td>Btry C</td>
<td>CAIP LACIE</td>
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(A3-1G)

(3) IV Corps Artillery supporting the Division.

6th Bn, 33d Arty
- Btry A
  - Grid: YD876126

6th Bn, 33d Arty (105mm, M1C1A1)
- Btry A, 1st Bn, 40th Arty
  - Grid: YC323984

1st Bn, 39th Arty
- Btry A
  - Grid: YD820150

1st Bn, 39th Arty (155mm, M109)
- Btry A (-)
  - Grid: YD829150

2nd Bn, 94th Arty (-)
- Grid: YD435395

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SUBJECT: Operational Report - Lessons Learned Headquarters 101st Airlborne Division Artillery (Airmobile) period ending 31 October 1969 CSM/FR-65 (R1)

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<td>FSB SALLY</td>
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<td>B</td>
<td>GIa LE</td>
<td>Y582515C</td>
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<td>C</td>
<td>FSB NANCY</td>
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(4) Battery I, 2d Battalion (Airmobile), 320th Artillery, continued to be attached to the 3d Battalion (Airmobile), 506th Infantry at PHU THSIT, RW.

(5) Additional Fire Support Bases used during the reporting period include:

| O'REILLY | YD324258 | PK 17 (ARVN) | YD547284 |
| ROCKET | YC398903 | BARBARA (ARVN) | YD338323 |
| RIFLE | YC863988 | AGINE (ARVN & US) | YD290401 |
| BRICK | YC834998 | MATS | YD253290 |
| PISTOL | YC092903 | ERSKIN | YD164107 |
| FURY | YC535846 | REVIEWS (ARVN) | YC433967 |
| NUTS | YC757855 | BASTOGNE | YD620095 |
| SPEAR | YC685925 | RAKKASAN | YT491198 |
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SUBJECT: Operational Report - Lessons Learned Headquarters 101st Airborne Division Artillery (Airmobile) period ending 31 October 1969

SFPOR-65 (R1)

SHRAPNEL: XD857591
SOUTH: XD916567
VICTORY: XD943476
TIGER (ARVN): YD251088
ANGIO (ARVN): YD928074
GARRULLO (ARVN): YD691202
CATAPULT: XD826618

b. On 1 Aug 1969, the division continued Operation KY. JU.P.E.R.

(1) 1 Aug: Division Artillery continued support of Operation KENTUCKY JU.P.E.R., MONTOGOLY REUNION, and CARPELL STRIKER. Colonel Howard A. Moore assumed command of the 101st Airborne Division Artillery (Airmobile). Btry C, 1st Bn (Amb), 321st Arty moved four (4) tubes by road from CAMP EAGLE (YD803163) to FSE BINKINGAI (YD704101) after firing salute for General Smith.

(2) 2 Aug: Btry C, 1st Bn (Amb), 321st Arty moved four (4) tubes by road from FSE BUKA LONAI (YD704101) to FSB EASTOGIE (YD622098) to support Operation KENTUCKY JU.P.E.R.

(3) 3 Aug: 2d Bn (Amb), 319th Arty reported FSB JU.AMA (YD398949) received 9-108mm mortars, all landing outside perimeter. Results: no casualties or damage. Btry A, and Btry B, 2d Bn (Amb), 319th Arty, and Btry A, 1st Bn, 40th Arty fired countermortar fire at suspect grids.

(4) 4 Aug: 2d Bn (Amb), 319th Arty reported FSB JU.AMA (YD398949) received 20x122mm rockets. Results: 1 ANV KIA, 4 ARVN KIA, 3 US KIA; one LOR from Btry A (Arvn), 377th Arty (Amb) hit by rocket fragments resulting in minor damage. Counter-rocket grids were fired by Btry B and C, 2d Bn (Amb), 11th Arty; Btry A and B, 1st Bn, 83d Arty; Btry A, 1st Bn, 40th Arty; 4th Bn (Aerial Artillery), 77th Arty; and Btry C, 12th Arty. Two aircraft from 4th Bn (Aerial Artillery), 77th Arty received one .50 cal hit each while flying vic grid YC328959. Aircraft attacked the .50 cal positions, destroying four (4) of them. Btry A, 1st Bn, 40th Arty moved by road to vic grid XD375005 in support of MONTOGOLY REUNION.

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(5) 2d Bn (Amb1), 319th Arty reported FSB BEACHTESGADZN (YD435011) received 20x90mm mortars, all landing outside the perimeter. Results: no damage or casualties. Btry A and B, 2d Bn (Amb1), 319th Arty and Btry B, 2d Bn (Amb1), 11th Arty fired counter-mortar fire on suspect mortar sites. Btry A, 1st Bn, 40th Arty moved by road to vic grid YC419954 in support of MONTGOMERY RE:DEVEOUS.

(6) 5 Aug: Btry B, 2d Bn (Amb1), 319th Arty credited with 1 VC killed by artillery during counter-mortar fire from FSB BEACHTESGADZN.

(7) 6 Aug: 2d Bn (Amb1), 11th Arty reported that a CH-47 dropped a load of HE on a ready rack of ammunition at FSB BEACHTESGADZN (YD435011). Total damage was 22 fuzes and 2 illum rounds destroyed.

(8) 7 Aug: Btry A, 1st Bn, 40th Arty moved by road to vic grid YD37770069 in support of Operation MONTGOMERY RE:DEVEOUS.

(9) 8 Aug: Btry A, 1st Bn, 40th Arty moved by road to vic grid YC462972 in support of MONTGOMERY RE:DEVEOUS. Btry C, 1st Bn (Amb1), 321st Arty moved four (4) tubes by road from FSB BASTOGNE (YD622098) to FSB BIRMINGHAM (YD704101) in support of Operation MONTGOMERY RE:DEVEOUS.

(10) 10 Aug: 4th Bn (Aerial Artillery), 77th Arty reported one (1) AH-1G aircraft received ground fire while supporting CCN at grid T0599676. Aircraft crashed and both pilots received back injuries and were EVAC to PHU BAI. Air Force and ARA attempted to destroy downed aircraft, but were unsuccessful. 2d Bn (Amb1), 319th Arty reported FSB CUALUHE (YC398949) received 37x82mm mortars, all landing outside perimeter. Results: no damage or casualties. Btry A and B, 2d Bn (Amb1), 319th Arty; Btry B, 2d Bn (Amb1), 11th Arty; and Btry A, 1st Bn, 40th Arty fired counter-mortar mortar suspect locations. Btry A, 1st Bn, 40th Arty moved by road to vic grid YC384990. Btry A, 2d Bn (Amb1), 11th Arty moved by air from FSB SHANGED (Z005903) to ROCK JUNGLE (ZDO15017) and then by road to CAIF EAGLE (YD819140) in support of Operation KENTUCKY JUMPER. Btry C, 2d Bn (Amb1), 320th Arty moved by air from vic "IAN" to PHU BAI then by road to CAIF EAGLE (YD814153) as operation with AERIAL DIVISION terminated. The battery will now support Operation KENTUCKY JUMPER.

(11) 11 Aug: 2d Bn (Amb1), 319th Arty reported FSB JURDIA received 6-7 unknown caliber and type rounds, all landing outside the perimeter. Results: no damage or casualties. Btry A and B, 2d Bn (Amb1), 319th Arty; Btry A, 1st Bn, 40th Arty; Btry B and C, 2d Bn (Amb1), 11th Arty; and Btry C, 1st Bn, 83d Arty
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SUBJECT: Operational Report - Lessons Learned, Headquarters 101st Airborne Division Artillery (Airmobile) period ending 31 October 1969

CSFOR-65 (RI)

fired counter mortar rocket fire on suspect grids. Dong Ap Bia named FSB DESTINY (YD328982). Btry B, 1st Bn (Ambl), 321st Arty moved by air from FSB ROY (ZD059032) to FSB BRICK (YD383995) for arty raid (Caisson XIV), and fired 58 targets; expended 404 rounds. The battery then moved by air from FSB EDIC to FSB AuDo (YD797108) in support of Operation KENTUCKY JUXTA. Btry A, 2d Bn (Ambl), 320th Arty moved by air from vic TA'IKY to FSB SAI then by road to CAMP EAGLE (YD814153) as the operation with the AMERICAN DIVISION terminated. Btry will not support Operation KENTUCKY JUXTA. Btry A, 2d Bn (Ambl), 320th Arty moved from FSB ARAO (YD797108) to FSB BLAZE (YD56020) in support of Operation OCTOBER RENDEZVOUS. Btry A, 1st Bn, 40th Arty moved by road from vic grid YC369990 to vic grid YD4299550 in support of Operation OCTOBER RENDEZVOUS.

(12) 12 Aug: 1st Bn (Ambl), 321st Arty reported CALP was received 9x 122mm rockets. Results: 7 US HA, 2 UH-1H aircraft damaged. Btry C, 2d Bn (Ambl), 319th Arty; Btry C, 2d Bn (Ambl), 11th Arty; Btry C, 2d Bn, 94th Arty and 4th Arty (Aarial Artillery), 77th Arty fired counter-rocket on suspect locations. 1st ARVN LiC reported HU received 6x122mm rockets. Results: 15 Vi-civ wounded, 1 VN 10 year old boy killed, 2 houses partially destroyed. Cleared color plans were fired and suspect rocket launch sites were fired by Btry B and C, 1st Bn (Ambl), 321st Arty; Btry A and C, 2d Bn, 138th Arty; and Btry E, 1st Bn, 83d Arty. 2d Bn (Ambl), 319th Arty reported FSB CURAH among received 8x122mm rockets. Results: A3P damaged, no casualties. Btry A, 2d Bn (Ambl), 319th Arty; Btry B and C, 2d Bn (Ambl), 11th Arty; Btry A, 1st Bn, 40th Arty; and Btry E, 12th Arty fired counter-rocket fire on suspect grids. 5th Bn, 33rd Arty reported FSB SAI received 8x122mm rockets, all landing outside perimeter. No casualties or damage. Suspect launch sites were fired by Btry A and C, 2d Bn, 138th Arty; Btry A, 2d Bn (Ambl), 11th Arty; and Btry E, 1st Bn (Ambl), 321st Arty. Btry C, 1st Bn (Ambl), 321st Arty moved by road from FSB BIKINGA (YD704101) to LZ SALLY (YD640273) in support of Operation KENTUCKY JUXTA. Btry B, 2d Bn (Ambl), 320th Arty moved by road from CAMP LAGUNA (YD814153) to FSB LOS RANOS (AT832998) in support of Operation KENTUCKY JUXTA. Btry A, 2d Bn (Ambl), 320th Arty moved by road from CAMP LAGUNA (YD814153) to FSB ROY (ZD057028) in support of Operation KENTUCKY JUXTA. Btry A, 6th Bn, 33rd Arty moved by road from LOS RANOS (AT832998) to FSB BIKINGA (YD704101) in support of Operation KENTUCKY JUXTA. Btry A, 1st Bn, 40th Arty moved by road from vic grid YD429965 to vic grid YC433935 in support of Operation OCTOBER RENDEZVOUS.

(13) 13 Aug: Nukel sector, Easy Defense, Camp Eagle conducted practice RED ALERT. 4th Bn (Aerial Artillery), 77th Arty fired one practice mission at grid YD8014, expending 15 rockets. Btry A, 1st Bn (Ambl), 321st Arty moved 4
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SUBJECT: Operational Report - Lessons Learned, Headquarters 101st Airborne Division Artillery (Airmobile) period ending 31 October 1969

CSFOR-65 (R1)

tubes by air from FSB SILLOX (ZD059928) to ROCK CRUSHER (2D012015) then by road to CAP P EAGLE (YD814153) in support of Operation KENTUCKY JU.P.R. Btry A, 1st Bn, 40th Arty moved by road from vic grid YC433935 to vic grid YC443935 in support of Operation MONTGOMERY RENDEZVOUS. 2d Bde Operation CAPE BLANCO STRANDER terminated at 2400 hours.

(14) 14 Aug: 4th Bn (Aerial Artillery), 77th Arty reported one AH-1G A/C received 10 rounds small arms fire from grid YC534185. Aircraft still flyable. Btry A, 1st Bn, 40th Arty moved from vic grid YC443935 to vic grid YC47958804 in support of Operation MONTGOMERY RENDEZVOUS. Btry A, 1st Bn (Ambl), 321st Arty moved 2 tubes by road from CAP P EAGLE (YD814153) to CAP P EVANS (YD541318) in support of operation KENTUCKY JU.P.R. Btry A, 1st Bn (Ambl), 320th Arty and Btry A, 4th Bn (Aerial Artillery), 77th Arty returned to CAP P EAGLE from vic TA. AY. Division Operation KENTUCKY JU.P.R terminated at 2400 hours. Btry C, 4th Bn (Aerial Artillery), 77th Arty fired on 2 VR sightings, results: 2 NVA killed and 2 structures destroyed.

(15) 15 Aug: Division Operation CAROLINA BLANCO commenced at 0001 hours. 2d Bn (Ambl), 319th Arty reported FSB CURRACHES received 12 x 122mm rockets. Results: several US KIA. Btry A and B, 2d Bn (Ambl), 319th Arty; Btry B and C 2d Bn (Ambl), 11th Arty; Btry A, 1st Bn 83d Arty and Btry C, 12th ARW Arty fired counter-rocket fire on suspect locations. 2d Bde Operation MONTGOMERY RENDEZVOUS terminated at 2400 hours.

(16) 16 Aug: 3d Bde Operation LOUISIANA LEE commenced at 0001 hours. 2d Bn (Ambl), 319th Arty reported FSB CURRACHES received 11 x 122mm rockets. No casualties or damage. Counter-rocket fire was delivered by Btry A and B, 2d Bn (Ambl), 319th Arty; Btry B, 2d Bn (Ambl), 11th Arty; Btry C, 1st Bn, 83d Arty; and Btry C, 12th ARW Arty. CAP P EAGLE received 6 x 122mm rockets. Results: 2 US KIA, 24 US WIA, 4 buildings damaged, 1 building destroyed, 1 vehicle damaged. Counter-rocket fire was delivered on cleared color plans and suspect launch sites by Btry A, 2d Bn (Ambl), 11th Arty; Btry B, 1st Bn (Ambl), 321st Arty; Btry C, 2d Bn (Ambl), 138th Arty; and 4th Bn (Aerial Artillery), 77th Arty. Btry A, 1st Bn, 40th Arty moved from vic grid YC47958804 to vic grid YC476686 in support of Operation LOUISIANA LEE. Btry B, 1st Bn (Ambl), 321st Arty moved 3 tubes by road from FSB ARBOY (YD797108) to FSB BASTOGNE (YD622098) in support of Operation CAROLINA BLANCO. Btry B, 2d Bn (Ambl), 11th Arty moved by air from FSB CURRACHES (YC998949) to FSB RENDEZVOUS (YC434967) in support of Operation LOUISIANA LEE. Btry B, 1st Bn, 83d Arty moved one gun by road from FSB ROY (ZD057028) to CAP P EAGLE (YD829150). The battery will continue to FSB RENDEZVOUS (YC434967) in support of Operation LOUISIANA LEE.
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(17) 17 Aug: Btry B, 1st Bn, 83d Arty moved 1 gun by road from CAP EAGLE (YD829150) to FSB BLAZE (YD536020) to support Operation LOUISIANA LEE. 4th Bn (Aerial Artillery), 77th Arty credited with 4 structures destroyed and 2 bunkers damaged. Sky Spot recommended on same target (a VC village). 6th Bn, 33d Arty reported FNU 3AI received 4x122mm rockets. No damage or casualties reported. Counter-rocket fire was delivered by Btry B, 1st Bn (Ambl), 321st Arty; Btry A, 2d Bn (Ambl), 11th Arty; Btry A, 6th Bn, 33d Arty; Btry B, 2d Bn, 94th Arty; and Btry A and C, 2d Bn, 138th Arty. C Btry, 4th Bn (Aerial Artillery), 77th Arty fired in support B Co, 2d Bn, 187th Inf. Results: 1 PVA killed by Aerial Artillery.

(18) 18 Aug: 1st Bde Operation CAROLINA BLASTER commenced at 0001 hours. Btry B, 1st Bn, 83d Arty moved one gun by road from FSB BLAZE (YD536020) to FSB RANDAZZOS (YC439697) to support Operation LOUISIANA LEE. Btry A, 2d Bn (Ambl), 320th Arty moved by air from FSB ROW (YD057028) to FSB SPEAR (YC683925) in support of Operation CUMBERLAND THUNDER. Btry B, 2d Bn (Ambl), 320th Arty moved by air from FSB LOS BAHOS (AT832998) to FSB HUNT (YC757854) in support of Operation LOUISIANA LEE. Btry A, 2d Bn, 40th Arty moved by road from FSB CURRIAN (YC396949) to FSB BLAZE (YD536020) in support of Operation LOUISIANA LEE. Btry C, 2d Bn, 11th Arty moved by road from vic grid YC47258684 in support of Operation LOUISIANA LEE. Btry C, 11th Arty (ARVN) moved by air from FSB AMIRI (YD929072) to FSB JUTS (YC757854) in support of Operation CUMBERLAND THUNDER.

(19) 19 Aug: The name of the division operation was changed from CAROLINA BLASTER to RICHLAND SQUARE effective 0001 hours. Btry A, 2d Bn (Ambl), 11th Arty moved by air from CAP EAGLE (YD815153) to FSB SPEAR (YC683925) in support of Operation CUMBERLAND THUNDER. Btry A, 1st Bn, 40th Arty moved by road from vic grid YC48258684 to vic grid YC47858803 in support of Operation LOUISIANA LEE. "Metro Section, 101st Abn Div Arty (Ambl) moved by air from FSB CURRIAN (YC396949) to FSB BLAZE (YD536020)."

(20) 20 Aug: 2d Bde Operation CLAIBOURNE CHUUN commenced at 0001 hours. Btry C, 2d Bn (Ambl), 11th Arty moved 2 tubes by air from FSB JACOB (YD435011) to CAP EVANS (YD541318) in support of Operation CLAIBOURNE CHUUN. Btry B, 1st Bn (Ambl), 321st Arty moved 3 tubes by road from FSB EASTCOTE (YD622098) to FSB AMIRI (YD795106) to support Operation RICHLAND SQUARE. Btry A, 1st Bn, 40th Arty moved by road from vic grid YC479880 to vic grid YC4744871 in support of Operation LOUISIANA LEE. Btry C, 12th ARVN Arty
moved by air from FSB CURRAH (YC398949) to FSB Rendezvous (YD43967) in
support of Operation LOUISIANA LEE. 6th Bn, 33d Arty reported PHU BAI
(YD878128) received four (4) 122mm rockets. No damage or casualties. Counterc
rocket fire was delivered by Btry A, 6th Bn, 33d Arty; Btry C, 2d Bn, 138th
Arty; Btry B, 1st Bn (Abl), 321st Arty; and Btry B, 2d Bn, 94th Arty.

(21) 21 Aug: Btry A, 1st Bn, 40th Arty moved by road from grid
YC47448871 to grid YC48448871 in support of Operation LOUISIANA LEE.

(22) 22 Aug: Btry C, 2d Bn (Abl), 319th Arty moved by air from Camp
Evans (YD541916) to FSB S QND (YD428312) for an arty raid (Caisson AV). Battery
fired on 33 intel targets, expended 370 rounds. Battery returned to Camp Evans. Btry B, 2d Bn (Abl), 320th Arty fired support during a
ground probe at FSB MAGS. No casualties or damage reported.

(23) 23 Aug: HUL received 2x122mm rockets. Results: 1 VN civ killed, 1
house destroyed. Counterrocket fire was delivered by Btry C, 1st Bn (Abl), 321st Arty. Camp Evans (YD814153) received 2x122mm rockets. Results: 12 US
wounded. Counterrocket fire was employed on color plans and suspect sites.

FSB CURRAH (YC398949) received 20 incoming 60mm mortars. Results: 1 US
killed, 6 US wounded. Countermortar fire was employed by Btry A and B, 2d
Bn (Abl), 319th Arty. 11th Arty employed against VC in bunkers. Results: 1 VC
KIA by ARVN, 4 bunkers destroyed. FSB MAGS of 2d Bn (Abl), 319th Arty moved from FSB MAGS to FSB Rendezvous (YD43967).

(24) 24 Aug: FSB BRIGHT EGADEN (YD424012) received ground attack, RFG's
and mortars. Btry A, 2d Bn (Abl), 319th Arty; Btry B, 2d Bn (Abl), 11th Arty
and Btry A, 1st Bn, 83d Arty fired 820 rounds countermortar fire. Results:

Enemy: 36 NVA KIA; Friendly: 3 KIA, 8 WIA, one searchlight and one light vehicle
damaged. FSB CURRAH (YC398949) received 4x60mm mortars, 9x122mm rockets,
Btry C, 1st Bn, 83d Arty; Btry B, 2d Bn (Abl), 11th Arty; Btry A, 2d Bn (Abl), 319th Arty and Btry C, 12th ARVN (105mm) fired a total of 370 rounds countermortar fire.

Btry C, 4th Bn (Aerial Artillery), 77th Arty expended 102 rockets. Results: Enemy unknown; Friendly: 1 US KIA (Btry D, 1st
Bn, 44th Arty).
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(25) 25 Aug: FSB CURRAHEE (YC398949) received 9x122mm rockets and 4x60mm mortars, all outside inside perimeter. Btry A, 2d Bn (Ambl), 319th Arty; Btry B, 1st Bn, 83d Arty; and Btry C, 12th Arty (AMX 105mm) fired 442 rounds counterrocket/countermortar fires. Results: No casualties or damages. Btry B, 1st Bn (Ambl), 321st Arty moved by road from FSB ARROY (YD795106) to FSB ARSENAL (YD813080) to support Operation CLAIBOURNE CHUTE. TPS-25 radar moved by road from FSB ARROY (YD795106) to FSB ARSENAL (YD813080). Btry A, 1st Bn, 40th Arty moved by road from vic YC48488671 to vic YC49458461. Btry A, 1st Bn, 83d Arty moved 1 howitzer from FSB BLAZE (YD536020) to GIA LE (YD829150).

(26) 26 Aug: Btry A, 2d Bn (Ambl), 319th Arty moved by air from FSB CURRAHEE (YC398949) to FSB RENDEVOUS (YD434967) to support Operation LOUISIANA LAD. Btry C, 1st Bn (Ambl), 321st Arty moved by air from LZ SALLY (YD640271) to FSB RAKKASAN (YD490198) to support Operation CLAIBOURNE CHUTE.

(27) 27 Aug: FHU 31 (YD678128) received 7x122mm rockets. Btry B, 1st Bn (Ambl), 321st Arty; Btry A, 6th Bn, 93d Arty; Btry C, 2d Bn, 138th Arty fired 353 rounds counterrocket fire. Results: No casualties or damages. Artillery incident involving ARA and 2d Sqdn (Ambl) 17th Cav: ARA firing danger close. Results: 5 US soldiers wounded, 2 required MEDVAC.

(28) 28 Aug: Btry A, 2d Bn (Ambl), 319th Arty moved by air from FSB BEACHHEAD (YD424012) to FSB BLAZE (YD536020). Btry A, 1st Bn, 40th Arty moved by road from vic YC49458461 to vic YC47868806. Btry G, 29th Arty moved 2 SLT's by air from FHU LAD (YD878128) to FSB RENDEVOUS (YD434967). Btry G, 85th Arty moved 1 quad 50 by air from FHU LAD (YD878128) to FSB RENDEVOUS (YD434967).

(29) 29 Aug: Btry C, 1st Bn (Ambl), 321st Arty moved by air from FSB RAKKASAN (YD490198) to FSB O'RILEY (YD325259) to support Operation CLAIBOURNE CHUTE. Btry A, 1st Bn, 83d Arty moved 1 howitzer by road from GIA LE (YD829150) to FSB ROY (YD570228) to support Operation RICHLAND SQUARE. TPS-25 radar moved by air from CAMP ANVILS (YD541318) to FSB ANDEZVOUS (YD434967).

(30) 30 Aug: Btry A, 2d Bn (Ambl), 319th Arty moved by air from FSB BLAZE (YD536020) to FSB FURY (YD535847) to support Operation LOUISIANA LAD. Btry A, 1st Bn, 40th Arty moved by road from YC47668806 to vic YC47628873. Btry D, 1st Bn, 44th Arty moved by road from FHU B.I (YD876128) to FSB ARSENAL (YD813080). Btry B, 4th Bn (Aerial Artillery), 77th Arty engaged NVA.
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base camp 3km south of FSB ELMINHURGHAN (YD155135). Results: 1 NVA killed by ARVN, 10 buildings destroyed.

(31) 01 Sep: Clean-up detail at FSB BLACK LEAF (YD424012) received 2 82mm mortar rounds, sighted approximately 14 NVA 200m NE of perimeter. Btry A, 2d Bn (Amb), 319th Arty; Btry B, 1st Bn, 83rd Arty; Btry B, 2d Bn (Amb), 11th Arty; and Btry C, 12th Arty (ARVN 105mm) fired 173 rounds of counter mortar fires. Results: Enemy unknown, Friendly: No casualties or damage.

(32) 03 Sep: Btry A, 2d Bn (Amb), 11th Arty moved by air from FSB SPAD (YD633925) to FSB ELMINHERGH (YD835995) to support Operation CUMBRAED THUNDER. Btry C, 1st Bn (Amb), 321st Arty moved by air from FSB O'REILY (YD352509) to LZ SALLY (YD640271) to support Operation MALIBU MADE. Btry C, 11th Arty (ARVN 105mm) moved by air from FSB HUMS (YD757854) to FSB PISTOL (YD93902) to support Operation CUMBRAED THUNDER. Artillery incident involving Btry A, 2d Bn (Amb), 10th Arty and C Co, 2d Bn (Amb), 502d Inf. Btry A, 2d Bn (Amb), 11th Arty firing direct fire defensive targets when shell fragments hit and wounded 2 US Inf soldiers, wounds minor, did not require MEDevac.

(33) 04 Sep: LZ SALLY (YD640271) received RPG and mortar attack. Btry C, 1st Bn (Amb), 321st Arty, Btry A, 2d Bn 94th Arty, Btry C, 2d Bn (Amb), 319th Arty and Btry A, 2d Bn, 138th Arty expended 241 HE rounds and ARVN expended 74 rockets in countermortar fires and on suspect locations. Results: Enemy unknown, Friendly: 1 US KIA, 23 WIA, 7 buildings damaged and 1 UH-1 damaged. FSB KIZIO (YD929072) received 20x60mm and RPG's. Btry C, 2d Bn, 138th Arty and Btry A, 2d Bn (Amb), 11th Arty expended 38 rounds countermortar fires. Results: Enemy unknown, Friendly: No casualties or damage. HUB received 4x122mm rockets. Results: 1VN child KIA, 1 ARVN WHA, 5 VN's WIA, 1 house destroyed, and 2 houses damaged. Btry A, 1st Bn (Amb), 321st Arty moved by air from FSB NACKA (YD35995) to FSB AHKE (YD90402) to support Operation CUMBRAED THUNDER. Btry B, 2d Bn (Amb), 320th Arty moved by air from FSB HUMS (YD757854) to FSB PISTOL (YD901902) to support Operation CUMBRAED THUNDER. Btry 3, 2d Bn (Amb), 319th Arty moved two howitzers by air from FSB FURY (YD835995) to Camp Evans (YD541318).
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(34) 05 Sep: Btry B, 2d Bn (Anbl), 319th Arty (4 howitzers) moved by air from FSB FURRY (YC535847) to FSB ROCKET (YD399902) to support Operation LOUISIAN LEE. Btry A, 2d Bn, 138th Arty moved 3 howitzers by road to vic YD5025 to fire direct support of a battalion operation. Return to CAMP EVANS (YD541318).

(35) 06 Sep: Btry B, 4th Bn (Aerial Artillery), 77th Arty fired in support of 1st Bn, 2d Regt. ARVN. Results: 2 VC killed by ARK.

(36) 07 Sep: 2x422 piggy-backed under a howitzer from Btry L, 1st Bn (Anbl), 321st Arty were dropped when a foot strap broke. Search conducted by the CH-47 pilot, a VR LOH and a AO (O-1) failed to find the load. Btry A, 1st Bn (Anbl), 321st Arty moved by air from FSB ANNE (YD290402) to CAMP EVANS (YD541318). Btry C, 11th Arty (ARVN 105mm) moved by air from FSB PISTOL (YD901902) to FSB GERONIMO (YD651202). Btry A, 1st Bn, 40th Arty moved by road from vic YC476887 to vic YD52926. Btry A, 1st Bn, 83d Arty moved 1 howitzer from GIA LE (YD835151) to FSB ROY (ZD57028) to support Operation RICHLAND SQUARE.

(37) 08 Sep: CG, 101st Abn Div (Anbl) stated that commanders will not initiate any offensive ground operations, air operations, nor artillery fires against NV. or VC forces unless required to protect installations of equipment. Interdiction fire will not be used during the cease fire period 080100-110100 Sep. Btry L, 1st Bn, 40th Arty moved by road from vic YC452926 to YC444934. Btry B, 1st Bn, 83d Arty moved 2 howitzers by road from FSB BLAZE (YD536028) to GIA LE (YD829150). Btry B, 1st Bn (Anbl), 321st Arty moved 3 howitzers by road from FSB ARSENAL (YD830860) to LZ S.LLY (YD639271). Btry C, 1st Bn (Anbl), 321st Arty moved 3 howitzers by road from LZ S.LLY (YD639271) to FSB ARSENAL (YD830860). TPS-25 radar moved by road from FSB ARSENAL (YD830860) to CAMP EVANS (YD541318).

(38) 09 Sep: A load of 105mm HE and 111 being taken from ASP to FSB PISTOL (YD901902) by CH-47 was dropped vic YD8900, load incorrectly rigged at ASP. Load was destroyed by BOD. Btry A, 1st Bn, 83d Arty moved one howitzer by road from GI LE (YD829150) to FSB ROY (ZD57028). Btry A, 1st Bn, 40th Arty moved by road from vic YC444934 to vic YC427948.

(39) 10 Sep: Cease fire terminated at 2400 hours. Btry B, 12th Arty (ARVN 105mm) moved by air from FSB SLUDGE (ZD592928) to FSB ANZIO (YD929072), and by road from FSB ANZIO (YD929072) to FSB GERONIMO (YD691202). Btry C, 1st Bn (Anbl), 321st Arty moved 3 howitzers by air from LZ S.LLY (YD639271) to FSB ARSENAL (YD830860). Btry B, 1st Bn (Anbl), 321st Arty moved 3 howitzers by air from
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FSB ARSENAL (YD813080) to LZ SALLY (YD639271), Btry A, 1st Bn, 83d Arty moved 1 howitzer by road from FSB BLAZE (YD536020) to GIA LE (YD829150). Btry A, 1st Bn, 40th Arty moved by road from vic (YD427949) to (YD427959).

(40) 11 Sep: Btry A, 2d Bn (Ambl), 320th Arty moved by air from FSB BRICK (YD835995) to FSB ROY (ZD059032). Btry C, 2d Bn (Ambl), 320th Arty moved 2 howitzers from FSB ROY (ZD059032) to FSB LOS BANOS (AT832998). Btry A, 1st Bn, 40th Arty moved by road from vic (YD427959) to FSB BLAZE (YD536020).

(41) 12 Sep: Btry B, 2d Bn (Ambl), 319th Arty moved by air from FSB ROCKET (YD399902) to CAMP EVANS (YD541318) to support Operation CLAIBORNE CHUTE.

(42) 13 Sep: Btry B, 6th Bn, 33d Arty moved by air from FSB BLAZE (YD535020) to FSB ROCKET (YD399902) to support Operation RICHLAND SQUAD. Btry A, 2d Bn (Ambl), 11th Arty moved by air from FSB BRICK (YD834996) to FSB PISTOL (YD502903) to support Operation CUMBERLAND THUNDER.

(43) 14 Sep: LNC, 1st ARVN Div reported that HUE received 3x122mm rockets. Two (2) children were wounded. Counter-rocket fire was employed by the ARVN arty at FSB GERONIMO. Btry C, 12th ARVN Arty moved by air from FSB RENDZVUS (YD434967) to FSB TIGER (YD535090) in support of Operation LOUISIANA LEE. Btry C, 2d Bn (Ambl), 319th Arty moved by air from CAMP EVANS (YD541318) to FSB ERKINE (YD164107) in support of Operation LOUISIANA LEE. Btry C, 1st Bn, 40th Arty moved three (3) tubes by road from CUA VIET to FSB BIRMINGHAM (YD704101). Btry C, 1st Bn, 40th Arty will replace Btry A, 1st Bn, 40th Arty at FSB BLAZE (YD536023).

(44) 15 Sep: One OH-6A from Btry A (Ambl), 377th Arty (Ambl), while on a VR mission received small arms fire from vic grid (YD158145). Six (6) hits were received. Aircraft returned to FSB ERKINE (YD164107) and was evacuated to CAMP EAGLE (YD810157). No casualties. FSB RENDEZVOUS (YD433967) received 9x 122mm rockets inside perimeter. Seven (7) US wounded (4 Arty). Div VHF radio rig and 20 105mm rounds were damaged. Btry B, 2d Bn (Ambl), 319th Arty; Btry B, 2d Bn (Ambl), 11th Arty; and Btry B, 1st Bn, 83d Arty. Btry C, 1st Bn, 40th Arty moved three tubes by road from FSB BIRMINGHAM (YD704101) to FSB BLAZE (YD536020) to replace 3 tubes of Btry A, 1st Bn, 40th Arty, which were moved to FSB BLAIRMANN (YD704101).

(45) 16 Sep: Btry A, 1st Bn, 40th Arty moved three (3) tubes by road from FSB BIRMINGHAM (YD704101) to CUA VIET, out of the AO of the 101st Abn Div (Ambl). Btry E, 4th Bn (Aerial Artillery), 77th Arty fired in support of Co A, 1st Bn (Ambl), 502d Inf. Results: 2 NVA killer by Arty.

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(46) 17 Sep: Btry C, 1st Bn, 40th Arty moved three (3) tubes by road from CUA VIET to CAMP EAGLE (YD810157).

(47) 18 Sep: 4th Bn (Aerial Artillery), 77th Arty was employed against an enemy position at grid (YD771062) resulting in two (2) VC killed by ARA. Btry C, 1st Bn, 40th Arty moved three (3) tubes by road from CAMP EAGLE (YD810157) to FSB BIRMINGHAM (XD704101).

(48) 20 Sep: Btry C, 2d Bn (Ambi), 319th Arty moved by air from FSB ERSKINE (YD164107) to FSB BLAZE (YD536020) to support Operation LOUISIANA LEE. Btry A, 1st Bn, 40th Arty moved the remaining elements of their battery from FSB BIRMINGHAM (YD704101) to CUA VIET, out of the AO of the 101st Abn Div (Ambi). Btry C, 1st Bn, 40th Arty now GSR to 101st Abn Div Arty (Ambi), replacing A Btry, 1st Bn, 40th Arty.

(49) 22 Sep: Btry B, 2d Bn (Ambi), 11th Arty moved by air from FSB RENDEZVOUS (YC434967) to FSB BASTOGNE (YD622095) to support Operation CLAIBORNE CHUTE. Btry B, 1st Bn, 83d Arty moved one gun by road from FSB RENDEZVOUS (YC434967) to FSB BLAZE (YD536020) to support Operation LOUISIANA LEE. Btry D, 1st Bn, 44th Arty moved 2 M-42's from FSB RENDEZVOUS (YC434967) to FSB BLAZE (YD536020). MPQ-4A radar moved from FSB RENDEZVOUS (YC434967) to CAMP EVANS (YD541318). TPS-25 radar moved from FSB RENDEZVOUS (YC434967) to FSB TOMAHAWK (ZD117014).

(50) 23 Sep: Btry B, 1st Bn (Ambi), 321st Arty moved by air from FSB SALLY (YD639271) to FSB BASTOGNE (YD622095). Btry A, 1st Bn (Ambi), 321st Arty moved by road from CAMP EVANS (YD541318) to FSB SALLY (YD639271). Btry B, 2d Bn (Ambi), 320th Arty moved by air from FSB PISTOL (YC902903) to FSB THOR (YD665835) to conduct an arty raid (Caisson XXIV). Unit fired on 8 targets, expending 660 rounds. No significant results were observed. Unit moved by air from FSB THOR (YD665835) to CAMP EAGLE (YD814153). MPQ-4A radar was moved from FSB ARSENAL (YD813080) to PHY BAI (YD878128). MPQ-4A radar was moved from CAMP EVANS (YD541318) to FSB ARSENAL (YD813080).

(51) 25 Sep: Btry C, 2d Bn (Ambi), 319th Arty moved by air from FSB BLAZE (YD536020) to CAMP EVANS (YD541318). Btry A, 2d Bn (Ambi), 11th Arty moved four (4) tubes by air from FSB PISTOL (YC902903) to FSB ARSENAL (YD813080) and two (2) tubes to CAMP EAGLE (YD813153). Div Arty metro section moved from FSB BLAZE (YD536020) to CAMP EAGLE (YD814153).

(52) 26 Sep: Btry B, 1st Bn, 83d Arty moved by road from FSB BLAZE (YD536020) to FSB BIRMINGHAM (YD704101).
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(53) 27 Sep: Btry A, 2d Bn (Ambl), 319th Arty moved by air from FSB RENDEZVOUS (YC439467) to FSB BLAZE (YD536620). 4th Bn (Aerial Artillery), 77th Arty destroyed two enemy bunkers at grid YC912892.

(54) 28 Sep: Btry C, 2d Bn (Ambl), 11th Arty moved by road from FSB BLAZE (YD536620) to CAMP EAGLE (YD15515). Btry C, 1st Bn, 83d Arty moved by road from FSB BLAZE (YD536620) to FSB BASTOGNE (YD622095).

(55) 29 Sep: Forward CP 2d Bn (Ambl), 319th Arty moved from CAMP EVANS (YD541318) to vic MAI LOC (YD098516).

(56) 30 Sep: Btry B, 2d Bn (Ambl), 319th Arty moved by road from CAMP EVANS (YD541318) to vic MAI LOC (YD098516). Btry C, 2d Bn (Ambl), 319th Arty moved by road from CAMP EVANS (YD541318) to vic MAI LOC (YD098516). Btry A, 2d Bn (Ambl), 319th Arty moved by air from FSB BLAZE (YD536620) to CAMP EVANS (YD541318). Btry C, 1st Bn, 40th Arty moved by road from FSB BASTOGNE (YD622095) to CAMP EAGLE (YD810157). Btry A, 6th Bn, 33d Arty moved by air from FSB RIFLE (YC87998) to PHU BAI (YD878128).

(57) 01 Oct: Btry A, 2d Bn, 94th Arty firing a HB registration had one round prematurely detonate due to the rain 450 meters from the gun position. Unit was firing on AZ 4800, QE 412, Ti 31.6. 3d Bde 101st Abn Div (Ambl) Operation ORTON FALLS commenced 0800 hrs. in N.W. sector of Quang Tri Province. Btry A, 2d Bn (Ambl), 11th Arty moved 4 howitzers by road from FSB ARSENAL (YD873080) to CAMP EAGLE (YD815155). Btry C, 1st Bn, 40th Arty moved by road from CAMP EAGLE (YD810157) to DONG HA. Btry D, 1st Bn, 44th Arty moved two M42's from PHU BAI (YD878128) by road to FSB BASTOGNE (YD622095).

(58) 02 Oct: 2d Bn (Ambl), 319th Arty will operate a local AWCC (Norton Arty) in their location at MAI LOC (YD098516), which will be tied into the DASC at DONG HA. LZ 1 (X8857591) received 15x60mm mortar rounds, 2 landing inside the perimeter. No casualties or damage. Countermortar fire was fired by the Marines at FSB ELLIOT (X8983543), Btry C, 2d Bn (Ambl), 319th Arty at LZ 1 (X8957591) and Btry B, 2d Bn (Ambl), 319th Arty at FSB SANDY (X8912563) fired on grids X8852623, X8986214, X8986214, X8874614, X8852623, and X8864621. Btry B, 2d Bn (Ambl), 319th Arty moved by air from MAI LOC (YD93516) to FSB SANDY (X8916567). Btry C, 2d Bn (Ambl), 319th Arty moved 2 howitzers from MAI LOC (YD98516) to LZ 1 (YD8757591). 4 howitzers back hauled to Quang Tri Combat Base because no security existed for them at MAI LOC.

(59) 03 Oct: Btry C, 2d Bn (Ambl), 319th Arty at FSB SHRAPNEL (YD857591)
reported receiving 17 incoming 82mm mortars. All landed outside perimeter. No casualties or damage. One AH-1G Cobra from Btry C, 4th Bn (Aerial Artillery), 77th Arty received 30 rounds S/A fire vic grid XD847574. Aircraft received one hit. Pilot slightly wounded. CAMP EVANS (YD514318) received 3x122mm rockets, one inside perimeter, two seahuts damaged, no casualties. Btry A, 2d Bn (Ambl), 319th Arty, Btry C, 2d Bn, 94th Arty and Btry A, 2d Bn, 138th Arty fired counter rocket fire expending 79 HE. Btry C, 2d Bn (Ambl), 319th Arty moved one tube by air from Quang Tri to FSB SHRAPNEL (XD857591). Btry B, 6th Bn, 33rd Arty moved by road from PHU LAI (YD878128) to FSB HALLY (YD43595). This battery is released from its GSR mission to the 101st Abn Div Arty (Ambl). LZ 1 (XD857591) named FSB SHRAPNEL and FSB SAIDY (YD912563) is renamed FSB 3-O-CH.

(60) 04 Oct: Btry C, 2d Bn (Ambl), 319th Arty moved by air two tubes from Quang Tri to FSB SHRAPNEL (XD857591).

(61) 05 Oct: Btry B, 2d Bn (Ambl), 320th Arty moved 4 tubes by road from CAMP EAGLE (YD814153) to FSB SABAR (YD897128). Btry B, 2d Bn (Ambl), 319th Arty fired in support of 12th Marine ambulance was credited with 1 VC killed by Arty.

(62) 06 Oct: 4th Bn (Aerial Artillery), 77th Arty credited with 2 NVA killed by ARA at grid XD872523. Btry C, 2d Bn (Ambl), 319th Arty moved one tube by air from Quang Tri to FSB SHRAPNEL (XD857591). Hill 715 (XD942477) designated FSB VICTORY.

(63) 09 Oct: 4th Bn (Aerial Artillery), 77th Arty credited with 1 NVA killed by ARA at grid YC426973. Btry C, 2d Bn (Ambl), 319th Arty moved 6 tubes by air from FSB SHRAPNEL (XD857591) to FSB VICTORY.

(64) 11 Oct: 4th Bn (Aerial Artillery), 77th Arty conducted an artillery raid in vicinity of FSB RENDLZOVUS (YD433967), engaged 3 targets; grids YC426-973, YC439967, and YC456942, expended 40x10 lb PD, 28x17 lb PD and 104 flechettes rockets. Negative assessments. Sensor activated vic FSE ANZIO (YD928-074). Btry A, 12th Arty expended 80 HE. Results: 4 VC KIA, 1 POW, 5 AK-47 captured.

(65) 13 Oct: 4th Bn (Aerial Artillery), 77th Arty conducted an artillery raid vic grids YD1429, YD1430, YD1830 expending 333 rockets, negative assessments. Btry A, 1st Bn (Ambl), 321st Arty moved by air from LZ SALLY (YD639271) to FSB JACK (YD499284).
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(66) 14 Oct: Btry A, 2d Bn (Amb), 11th Arty moved by road from CAP EAGLE (YD15153) to FSB MILLION (YD983542) and by air from FSB LLILOT to FSB VICTORY (YD942476). 4th Bn (Aerial Artillery), 77th Arty conducted a raid via grid box YC3087, YC3487, YC3490, YC3090 expending 486 flechette and 60 HE rockets, negative as an enemy presence of the area.

(67) 15 Oct: Btry C, 2d Bn (Amb), 319th Arty moved 4 tubes by air from FSB VICTORY (YD942476) to FSB AI LOC (YD98516).

(68) 16 Oct: Btry C, 2d Bn (Amb), 319th Arty moved 4 howitzers by air from AI LOC (YD098516) to FSB CATAPULT (YD82517) to conduct an artillery raid. Fifty-six (56) targets were engaged, expending 700 rounds. Unit moved by air from FSB CATAPULT (YD82517) to FSB VICTORY (YD942476) upon termination of the raid.

(69) 17 Oct: Division Artillery 40 observed 19 fighting positions, 2 bunkers, and 1 anti-aircraft position. Btry A, 2d Bn (Amb), 320th Arty expended 45 rounds, destroying all positions. Btry A, 1st Bn (Amb), 321st Arty moved by road from FSB JACK (YD499284) to LZ SALLY (YD639271).

(70) 18 Oct: Marine CAP Team 3D had contact vic grid YD958043 with unknown size force. Btry A, 2d Bn (Amb), 320th Arty, Btry A, 1st Bn, 39th Arty and Btry C, 1st Bn, 320th Arty employed artillery expending 87 rounds. Results: 4 VC RIA, 4 AK-47, and 1 B-40 rocket and launcher captured.

(71) 20 Oct: Division Artillery Visual Net Team moved from CAP EAGLE (YD810157) to FSB EASTCCKS (YD622095). Division Artillery staff gave update briefing to Division CO.

(72) 21 Oct: 1 AH-1G Cobra from Btry C, 4th Bn (Aerial Artillery) 77th Arty flying in support of a GA in NW Quang Tri Province area received 1x.50 cal round in main rotor. No casualties. Btry A, 1st Bn (Amb), 321st Arty moved by air from LZ SALLY (YD639271) to FSB NAHKAHNAH (YD490198).

(73) 22 Oct: Btry C, 2d Bn (Amb), 320th Arty moved by road from FSB LOS ANJOS (YD832998) to FSB TONADO X (YD117014).

(74) 23 Oct: 1 AH-1G Cobra from Btry A, 4th Bn (Aerial artillery), 77th Arty crashed on FSB DOXYD (YD740130). No survivors.
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(75) 24 Oct: 2d Bn (Ambl), 310th Arty's 24 radar moved from Camp EVN's (YD541318) to FSB SCOTCH (YD912563).

(76) 25 Oct: Btry C, 1st Bn (Ambl), 321st Arty conducted an artillery raid, Caisson LAVI, moving from FSB ARMAKL (YD613080) to FSB AUR EN (YD428122), and firing on 47 targets expending 760 HL rounds. Results: 35 structures and 1 bunker destroyed, 4 structures damaged and received 2 secondary explosions. The battery then moved by air to FSB BINGHAI (YD704101). Btry C, 2d Bn (Ambl), 11th Arty moved by road from Camp EAGLE (YD615153) to FSB ASSEKAL (YD613080). Btry A, 6th Bn, 33d Arty moved by road from FSB BINGHAI (YD704101) to CUA VIET, moving out of the 101st Ab Div (Ambl) AO. The Division Artillery metro station moved b. air from Camp EAGLE (YD617157) to FSB EASTGATE (YD622095). LTC Robert D. Hammond assumed command of the 2d Bn (Ambl), 319th Arty from LTC Miles J. Fulwyler.

(77) 27 Oct: NAI LOC (YD098527) reported 4 incoming 60mm mortars. A.A employed, negative results.

(78) 30 Oct: Camp EVN's (YD614353) reported 2 incoming 122mm rockets, both landed outside perimeter, negative damage or casualties.

(79) 31 Oct: As a result of the 2d Sqdn (Ambl), 17th Cav's discovery of a bunker complex, grid X697637, two 8" howitzers from Btry A, 8th Bn, 4th Arty moved by road from Camp CARROL to vic grid YD035565 to conduct an Arty Raid. The bunker complex was destroyed. The Division Artillery has fired a total of 2,309,024 rounds of ammunition since the 101st Airborne Division, (Airmobile) has been in Vietnam.

4. (C) Section 2 Lessons Learned, Commander's Observations, Evaluation and Recommendations:

a. PERSONNEL:

(1) OBSERVATION: That the 4th Bn (Aerial Artillery), 77th Arty falls short of the USARV assignment criteria of 25% experienced aviators per unit.

(2) EVALUATION: In this battalion's role of delivering ordnance against enemy targets which many times are extremely close to friendly elements, experience and flying skill are of paramount importance. While engaged in ordnance delivery, the aircraft must be flown with the utmost precision and the pilot's mind must be alert and devoted to the ever changing tactical situation.
The period from the aviator's arrival in SVN until he reaches the desired skill level is characterized by firing incidents and aircraft accidents. The assignment of sufficient second tour aviators to season the new aviator and add his experience to the learning process will result in a higher level of experience throughout the battalion. Status as of 3 November 1969:

<table>
<thead>
<tr>
<th>AUTH AVIATORS</th>
<th>2d TOUR</th>
<th>AH-1G</th>
<th>AH-1G QUALIFIED ON 2D TOUR</th>
<th>% ASS'D</th>
<th>% AH-1G</th>
</tr>
</thead>
<tbody>
<tr>
<td>107</td>
<td>105</td>
<td>18</td>
<td>92</td>
<td>17</td>
<td>17.1%</td>
</tr>
</tbody>
</table>

(3) RECOMMENDATION: That sufficient second tour aviators be assigned to Aerial Artillery units to bring them to a minimum of 25% experienced aviators.

b. INTELLIGENCE:

(1) Vietnamese aerial observers

(a) OBSERVATION: Recent efforts to assist RVN artillery units by sharing US air assets with them have exposed an almost total lack of personnel trained or experienced in the tactics and techniques of aerial observation.

(b) EVALUATION: At the present time RVN forces do not possess sufficient numbers of aircraft to either correct this problem or to make its existence felt. However, as the Vietnamese continue to gain air assets and to become responsible for larger areas operation, this lack of experience could prove critical.

(c) RECOMMENDATION: That these US units involved with aerial observation missions and endowed with the requisite assets develop training program for local RVN forces.

(2) Aerial Observers

(a) OBSERVATION: The 101st Abn Div (Ambl) has the requirements to cover convoys, conduct visual reconnaissance, and to adjust all types of artillery fire on a daily basis.

(b) EVALUATION: Sufficient air assets are available to the division to handle the required missions. However, there are currently only two aerial observers authorized in all of Division Artillery. Battalions must divert resources to man aerial observer missions.

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(c) RECOMMENDATION: That TO&E's be changed to authorize two aerial observers per direct support battalion and two aerial observers at HHE, 101st Airborne Division Artillery (Airborne).

c. OPERATIONS:

(1) Use of Flechette Warheads

(a) OBSERVATION: The WDU-4/A Flechette Warhead effectively penetrates jungle canopy and covers large areas with lethal effect.

(b) EVALUATION: The WDU-4/A Flechette Warhead has a devastating antipersonnel effect. However, it is not effective against troops in positions with overhead cover. If used for LZ preparation prior to T.O. air and artillery, the enemy will remain unwarned and exposed to the rocket's effective area coverage.

(c) RECOMMENDATION: That WDU-4/A rockets be employed on planned LZ's prior to any other type fire and be followed by a swift, violent air and artillery preparation, prior to the combat assault.

(2) Consolidated Rearing Points

(a) OBSERVATION: Consolidated rearming points are not satisfactory.

(b) EVALUATION: A consolidated rearming point established in a forward area always develops a backlog of helicopters requiring rearming whenever there is a large contact. This significantly increases the time required to rearm an AAA section and lengthens turn around time to an unacceptable level. In addition, ammunition accountability is a practical impossibility as crews take rockets from the nearest available stock pile.

(c) RECOMMENDATION: A central "issue point" at each forward base where units draw ammunition and then transport it to their individual rearm points.

(3) RECON by FIRE

(a) OBSERVATION: Advantages of reconnaissance by fire are not fully used to support infantry elements.

(b) EVALUATION: Reconnaissance by fire aids in navigation, provides a point located by fire, and reduces the response time for processing fire
requests. Reconnaissance by fire often will reveal enemy structures and may eliminate enemy ambushes along the unit's route.

(c) RECOMMENDATION: That commanders, LNO's and FO's encourage the use of reconnaissance by fire.

(4) Utilizing both ARVN and US Artillery to support either ARVN or US maneuver elements.

(a) OBSERVATION: The most economical employment of all artillery available is accomplished by using both ARVN and US artillery to support combat operations.

(b) EVALUATION: The best way to provide both US and ARVN artillery fires to either US or ARVN maneuver elements is to establish a joint TOC and FDC. This arrangement provides a central control agency which controls all artillery in the area of operation. The establishment of liaison and communications with ARVN artillery will also accomplish the desired results. At the present time one battalion has a normal artillery liaison party with the 34th ARVN Arty which is DS to the 54th ARVN Regt. It should be noted that the liaison officer works with the ARVN artillery in much the same manner as a reinforcing to reinforced relationship except that in effect both units are being reinforced by the other element's artillery. This arrangement provides a better utilization of the artillery available and more responsive fires than can be accomplished by establishing liaison with ARVN maneuver elements. On one occasion the ARVN established liaison with a firing battery in order to provide responsive US artillery support to an ARVN cavalry squadron operating in the brigade AO. The procedures outlined above also have the added advantage of eliminating the requirement to provide US forward observers to ARVN maneuver elements.

(c) RECOMMENDATION: That joint US and ARVN TOC's and/or liaison be established when feasible.

(5) The Artillery Raid

(a) OBSERVATION: The artillery raid is an excellent economy of force measure.

(b) EVALUATION: If adequate targeting data is available the artillery raid is an excellent economy of force measure. This is particularly true during periods of bad weather that precludes maneuver elements from operating for prolonged periods of time in the outlying areas of the area of operations. The
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Airmobility available within the division makes the artillery raid even more
effective. Normally the weakest element in an artillery raid is surveillance
of the target area. The use of the Air Cavalry Troop eliminates this weakness.
With proper coordination, an artillery aerial observer can observe the target
area while the firing is being conducted. When complete, the artillery will
shift to another series of targets and the cavalry teams can conduct EDA or
surveillance in the target area. This technique works extremely well and not
only provides surveillance of the artillery fires but allows the cavalry to
conduct a detailed reconnaissance of the area while tube artillery is in
position to support.

(c) RECOMMENDATION: When adequate targeting information is available,
artillery raids should be conducted utilizing cavalry teams for surveillance.

(6) Blocking fires.

(a) OBSERVATION: When supporting multiple ambushes in the lowlands, it
is frequently difficult to fire artillery at the point of contact due to prox-
imity to friendly troops.

(b) EVALUATION: In these situations the best employment of artillery
is to fire blocking fires to block all possible routes of withdrawals.

(c) RECOMMENDATION: That LNO's and FO's encourage the use of blocking
fires when feasible.

(7) 8 Octant GFT settings

(a) OBSERVATION: The computation of manual firing data is required for
every mission. This data is either fired or used to check FADAC data and should
be as accurate as possible. This requires the computation of "8 OCTANT" GFT
settings. However, computing manual "8 OCTANT" GFT settings four times per day
is very time consuming.

(b) EVALUATION: The battalion computes GFT settings using FADAC by follow-
       ing these procedures. Store battery center and altitude in FADAC as a target.
Select, for GFT calculation purposes only, an optimum range for all charges,
both high and low angle. In each of the octants compute FADAC data for each
charge with its optimum range and angle of fire keeping the imaginary target
at the same altitude of the battery. The data displayed is the adjusted de-
       flection, time and elevation. In high angle fire the deflection correction

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contains drift. Subtract the drift corresponding to the adjusted elevation from this value to obtain the constant deflection correction.

(c) RECOMMENDATION: The method outlined above can be used to save time while retaining accuracy.

(8) The "Light Ship".

(a) OBSERVATION: When maneuver elements conduct small multiple ambushes, it is frequently difficult to obtain exact locations for all maneuver elements. Therefore, it is beneficial to have an artilleryman in the air to pinpoint friendly locations.

(b) EVALUATION: A LOH with mounted multiple lights is an excellent means of observation while supporting troops in contact at night.

(c) RECOMMENDATION: That the LOH with light be used when supporting troops at night.

d. ORGANIZATION: See Inclosure 1.

e. TRAINING: Training of AH-1G Aviators.

(1) OBSERVATION: The training of AH-1G aviators at USAVS Element, Hunter Army Airfield is inadequate for combat operations in AH-1G.

(2) EVALUATION: The training given in the AH-1G transition course at Hunter Army Airfield does not give instruction in touchdown autorotations, antitorque control failures, or operations at or near maximum gross weight. Consequently, units must use combat aircraft to give this training to newly assigned aviators which have been trained in CONUS. This training is required by USAV Supplement 1 to AR 95-4 and by 101st Abn Div (Ambl) Reg 95-6. An additional shortcoming is that aviators are not adequately schooled in the weapons systems in the co-pilots gunner's station. The AH-1G training provided by USAV at Vung Tau teaches all the required elements, provides for instruction in aircraft that are at or near maximum gross weight, and gives adequate training in weapons systems.

(3) RECOMMENDATIONS:

(a) That CONUS training be modified to adapt to the combat unit's needs.
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SUBJECT: Operational Report - Lessons Learned, Headquarters 101st Airborne
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(b) Or that all A-1G training be given in USMC.

f. LOGISTICS: Survival equipment

(1) OBSERVATION: That aircraft crew members in Div Arty do not have
Escape, Evasion, and Survival equipment.

(2) EVALUATION: Aircraft continuously fly over the most hazardous and
treacherous terrain in Vietnam. However, marker lights (F4F 6230-057-5209)
and radio sets VRC 10 (FSN 5820-559-3721) are not available in sufficient
quantities. A survival weapon (car 15 or M16) is required for each aircraft.
Marker lights and radio sets have been on valid requisition since 9238 and 9147,
respectively.

(3) RECOMMENDATION: That sufficient numbers of Escape, Evasion, and
Survival items be procured and issued.

g. CO. USMC FOOD:

(1) AS-2236 Antenna

(a) OBSERVATION: The quality, reliability, and range of FM radios are
significantly enhanced with utilization of the AS-2236 Log Periodic Antenna.

(b) EVALUATION: Two AS-2236 antennas, a Marine Corps item, were borrowed
from other IOTW units and employed between the Battalion CP at Camp Lejeune, FSB
Rendezvous in the A Shau Valley, and Sinh Loc, near the DMZ. In both cases,
high quality, reliable, FM communications resulted, as contrasted with the RC-
292 antenna, which could produce only marginal communications over the same
area, with the same radios. DB gains of between 8 and 12db were recorded during
the period when Log Periodics were being utilized in the battalion. The
need for adoption of this antenna within the division is readily apparent, and
will become more critical as division combat force disperses over the expanded
areas of operations.

(c) RECOMMENDATIONS: Initiate action to obtain AS-2236 antennas for Army
requirements. In the interim, initiate action to obtain a number of those
antennas for division use from departing Marine Corps units.

(2) Frequency Sharing
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(a) OBSERVATION: Radio frequency interference has been experienced between firing batteries, LVO sections, and forward observers in certain areas. The interference could have been caused by Marine CAP teams operating on the same frequency.

(b) EVALUATION: When administrate traffic and non-pertinent traffic from other stations is present on a shared frequency, it prevents the most responsive fire support.

(c) RECOMMENDATION: That continued emphasis be placed on providing non-shared frequencies for fire nets.

h. MATERIAL: None.

i. OTHERS: None.

HO-WARD M. MOORE
Colonel, Fm
Commanding

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10 - S3, 101st Airborne Division Artillery (Airmobile)

1 - S3, 101st Airborne Division Artillery (Airmobile) (File)

1 - 54, 101st Airborne Division Artillery (Airmobile)

1 - FSCG, 101st Airborne Division Artillery (Airmobile)

1 - Commo Officer, 101st Airborne Division Artillery (Airmobile)

5 - 2d Bn (Amb), 319th Arty

6 - 2d Bn (Amb), 320th Arty

5 - 1st Bn (Amb), 321st Arty

5 - 2d Bn (Amb), 11th Arty

5 - 4th Bn (Air Artillery), 77th Arty

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AVDG-CS (15 Nov 69) 1st Ind
SUBJECT: Operational Report - Lessons Learned, Headquarters, 101st Airborne Division Artillery (Airmobile) for Period Ending 31 October 1969, RCS CFPOR-65 (R2) (U)

DA, HQ, 101st Airborne Division (Airmobile), APO San Francisco 96383 26 Nov 69

TO: Commanding General, XXIV Corps, ATTN: AVII-GCT, APO 96302

1. (U) Forwarded in accordance with USARV Regulation 525-15 and XXIV Corps Regulation 525-2.

2. (C) The following comments and/or recommendations are submitted:

a. Paragraph 4a, page 19: At present the division is overstrength in aviators but will be reduced through attrition to a 92% USARV established manning level. The AH-1G (Cobra) is a relatively new aircraft in the Army inventory and the experience level of aviators in this aircraft is proportionately low. Second tour aviators qualified in the AH-1G are not arriving in Vietnam in sufficient numbers to meet the 25% criteria. It is anticipated that in-country AH-1G transition of second tour aviators will partially alleviate the experience problem.

b. Paragraph 4b(2), page 20: Letter, AVIGC-FDU, USARV, 12 October 1969, subject: Moratorium of Processing TDA, MTDA and MTOE, imposes a moratorium on the generation of routine MTOE's effective 12 October 1969. An MTOE may be submitted during the period of the moratorium if critical circumstances require. Division artillery has prepared an MTOE for submission at such time that the moratorium is eased.

c. Paragraph 4f, page 25:

(1) A valid due-out currently exists for 500 lights, marker distress.

(2) The radio, URC-68, that was scheduled to replace the URC-10, failed to meet R&D specifications and is not presently programmed for issue in Vietnam. Headquarters, USARV has instructed units not to request subject radio. URC-10 or substitute will be issued to units on the basis of a 50% fill of authorized level. The division currently stands at a 48.6% fill.

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DECLASSIFIED AFTER 12 YEARS.
DCO 882 5200.10
AVDG-CS (15 Nov 69) 1st Ind 26 November 1969
SUBJECT: Operational Report - Lessons Learned, Headquarters, 101st Airborne Division Artillery (Airmobile) for Period Ending 31 October 1969, RCS CSFOR-65 (R2) (U)

(3) The survival weapon for AH-1G (Cobra) aircraft crew members in division artillery is a .33 caliber pistol. No other weapons are presently authorized for crew members. According to Headquarters, USARV G4, the survival weapon CAR-15 is not available for issue through supply channels at the present time. One hundred CAR-15's are currently on hand and assigned to various units within the division. M-16 rifles are currently available in supply channels and may be authorized for issue based on approval of an MTOE. Division artillery is currently preparing an MTOE for authorization of the M-16 based on critical need, per paragraph 2b above.

FOR THE COMMANDER:

[Signature]
Hugh A. Macdonald
Colonel, GS
Chief of Staff
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AVII-GCT (15 Nov 69) 2nd Ind

SUBJECT: Operational Report - Lessons Learned of the 101st Airborne Division
Artillery (Airmobile) for the Period Ending 31 October 1969, RCS
CSFOR-65 (R2)(U)

DA, Headquarters, XXIV Corps, APO SF 96308  8 DEC 1969

TO: Commanding General, United States Army, Vietnam, APO SF 96375

1. (U) The Operation Report - Lessons Learned of the 101st Airborne Division
Artillery (AM) has been reviewed by HQ, XXIV Corps and is forwarded in
accordance with AR 525-15.

2. (C) Except as noted below, this headquarters concurs with the report as
indorsed by the 101st Airborne Division (AM).

   a. Reference item concerning Consolidated Rearming Points are not satis-
factory, section II, para 4c(2), page 21. Concur in part with recommendation.
A central issue point and individual unit rearm points would alleviate the
rearming problem. However, other problems must be considered, such as; loca-
tion of and security for rearm points, personnel required to operate individ-
ual rearm points, and transportation of ammunition from the central issue
points to the individual rearm points.

   b. Reference item concerning 8 Octant GFT Settings, section II, para 4
using a Met Checkpoint System and/or computation of individual mission firing
data utilizing wind cards, must also be retained as a back-up for FADAC com-
putation.

   c. Reference item concerning The Light Ship, section II, para 4c(8),
page 24. Nonconcur with evaluation and recommendation. The Army Concept
Team in Vietnam (ACTIV) completed testing and evaluation on the ENSURE 260
Light System, more commonly referred to as the Electro Optical System (EOS),
on 22 August 1969. This set was initially designed for and tested in the
LOH. On 12 August 1969, ACTIV forwarded an interim report to Department of
the Army, recommending the use of the EOS on the UH-1 rather than the LOH.
Their justification hinged primarily on the lack of instrumentation in the
LOH.

   d. Reference item concerning training, section II, para 4e(1). Concur.
Recommend that unit’s recommendation be forwarded to USAVNS for considera-
tion.

   e. Reference item AS 2236 Antenna, section II, para 4g(1), page 25. Con-
cur with the requirement for an antenna with the same characteristics. An
ENSURE request has been initiated by HQ, USARV for the Log Periodic Antenna.

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f. Reference item Frequency Sharing, section II, para 4g(2), page 26. The shortages of FM radio frequencies within the XXIV Corps AO precludes assignment of sole user frequencies to every radio net. However, sufficient frequencies are available to enable each major unit to assign sole user frequencies to its most critical radio nets. Radio nets normally classified as critical are Div/Bde/Bn Command Nets, Div/Bde/Bn Operations and Intelligence Nets, Fire Direction Nets, Pathfinder Nets, and Aviation Group/Bn Command and Operations Nets. Each major unit must evaluate its radio net structure, assign priorities, and make their frequency assignments accordingly. Although many radio nets will be forced to utilize common user frequencies, mutual interference can be held to an absolute minimum through careful coordination between the Radio/Signal Officer and the G3/S3 personnel. Consideration must be given to type of units involved, physical locations, and proposed movement of these units.

FOR THE COMMANDER:

[Signature]

R. D. PECCO
MAJ, AGC
ASST AG

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TO:  Commander in Chief, United States Army, Pacific, ATT: GPOF-DT, APO 96558

1. (U) This headquarters has reviewed the Operational Report-Lessons Learned for the quarterly period ending 31 October 1969 from Headquarters, 101st Airborne Division Artillery (Airmobile) and comments of insuccessful headquarters.

2. (C) Comments follow:

   a. (U) Reference item concerning the shortfall in assignment of experienced aviators, page 19, paragraph 4a and 1st Indorsement, paragraph 2a. Concur with 1st Indorsement. Examination of the experience level of AH-1G aviators assigned to the 101st Airborne Division (A) as of 1 December, revealed that a total of 201 AH-1G qualified aviators were assigned. There are presently 49 AH-1G aviators assigned to the 101st Abn Div who are presently serving a second tour in RVN. This gives an experience ratio of 24.3%, which is slightly below the 25% experience factor required for USARV as a whole. The present ratio of experienced AH-1G aviators (2d tour) to inexperienced (1st tour) is considered acceptable in view of DA policy that applies, and in accordance with resources made available to USARV. It should be pointed out that the 25% experience requirement applies to USARV as a whole, and not to each particular unit within USARV. The requirement for filling key command and staff positions throughout USARV with experienced (2d tour) aviators, for example, can clearly be expected to reduce the ratio of experienced aviators to somewhat less than 25% for battalion and smaller sized aviation units.

   b. (U) Reference item concerning "Vietnamese Aerial Observers", page 20, paragraph 4b(1); concur. In view of the present Vietnajisation program, attempts by units to correct or eliminate exposed RVN weaknesses such as this with a formal training program or JQTV is highly encouraged. This item will be considered for discussion during the next MACV Aerial Reconnaissance Conference to be held in January 1970.

   c. (U) Reference item concerning "Use of Flechette Warheads", page 21, paragraph 4c(1); concur. No action by higher headquarters is required.

   d. (U) Reference item concerning "Recon by Fire", page 21, paragraph 4c(3); nonconcurs. Reconnaissance by fire does not discriminate between friendly and the enemy. Reconnaissance by fire, as described, is essentially a violation of the MACV Rules of Engagement unless conducted within a Specified Strike Zone. The 101st Abn Div (A) has been advised of the potential problem that could occur as a result of reconnaissance by fire.
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AVISN-005 (15 Nov 69) 3d Ind

GRUBER

Operational Report-Lessons Learned

Headquarters, 101st Airborne

Division Artillery (Airmobile) 1 siq Edging 31 October 1969.


G4 OPORD-65 (R2)(U)

1. Reference item concerning "Light Ship", page 24, paragraph 40(6), and 2d Indorsement, paragraph 2f: Concur with the 2d Indorsement.

Action is being taken to provide the Division with "Night Hawk" equipment which will provide the unit with a covert airborne night surveillance capability mounted in a UH-1H aircraft.

2. Reference item concerning "Training of AH-1G Aviators", page 24, paragraph 4a, and 2d Indorsement, paragraph 2d: Concur with 2d Indorsement.

USARV Aviation will discuss the USARV's AH-1G training program in depth with the aviation representatives on the COMARC Liaison Team scheduled to visit USARV in Jan 70.

3. Reference item concerning "Survival Equipment", page 25, paragraph 4f, and 1st Indorsement, paragraph 2d: Concur with 1st Indorsement. USARV message, 050716Z Dec 69, subject: Issue of AN/URC-10 Survival Radios, directed the issue of 212 AM/URC-10 survival radios to the 101st Airborne Division. These issues bring the division to a 100% fill of the survival radios authorized.

FOR THE COMMANDER:

L. D. MURRAY

CPT, AGC

Assistant Adjutant General

Cy Burns

101st Air Div Art (AA)

XXIV Corps

CONFIDENTIAL
GPOP-DT (15 Nov 69) 4th Inf (U)
SUBJECT: Operational Report of HQ, 101st Airborne Division Artillery
(Airmobile) for Period Ending 31 October 1969, RCS GSFOM-65 (R1)
HQ, US Army, Pacific, APO San Francisco 96558 5 FEB 1970
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 IN CHIEF:

D. A. TUCKER
CPT, AGC
Asst AG
Division artillery is organized under the following TOE:

a. Headquarters and Headquarters Battery: TOE 6-701T

b. Two field artillery battalions, 1st Battalion (airmobile), 311st Artillery and 2d Battalion (airmobile), 319th Artillery. TOE 6-705T and further organized as:

   (1) Headquarters and Headquarters and Service Battery: TOE 6-706T

   (2) Three firing batteries: TOE 6-707T

c. The 2d Battalion (airmobile), 320th Artillery. TOE 6-705T. The battery units are further organized as:

   (1) Headquarters, Headquarters and Service Battery: TOE 6-706T

   (2) Three firing batteries: TOE 6-707T

   (3) A fourth battery, Battery D, 2d Battalion (airmobile), 32 th Artillery, which supports the 3d Battalion (airmobile), 506th Infantry, which is O.C. to 1 Field Force Vietnam, was reorganized under TOE 6-706T, per General Order Number 124 Headquarters USARPAC, dated 13 February 1969.

d. The 2d Battalion (airmobile), 11th Artillery is organized under USARPAC M.O.E 6-425G, dated 24 November 1967. The battery units are organized as follows:

   (1) Headquarters and Headquarters Battery: M.O.E 6-426G

   (2) Three firing Batteries: M.O.E 6-429G

   (3) Service Battery: M.O.E 6-429G

e. The 4th Battalion (aerial Artillery), 77th Artillery is organized under TOE 6-725T.

   (1) Headquarters, Headquarters and Service Battery: TOE 6-726T

   (2) Batteries A, B and C: TOE 6-727T
**Operational Report - Lessons Learned, HQ, 101st Airborne Division Artillery**

Experiences of unit engaged in counterinsurgency operations, 1 Aug 69 to 31 Oct 69.

**CO, 101st Airborne Division Artillery**

**Report Date**

15 November 1969

**Contract or Grant No**

N/A

**Project No**

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