

CONFIDENTIAL USE ONLY

B00 Lt Butcher
Msl # 5808

Short Round

NIKE MISSILE FIRING REPORT

(Tng Memo 3, HQ USARADCOM, 1959)

PART I - UNIT AND SCORE

1. UNIT BATTERY <u>D</u> . <u>2d</u> MISSILE BATTALION, (NIKE- <u>AJAX</u>), <u>106th</u> ARTILLERY				SET NUMBER 320
2. ASP MISSILE NUMBER 13-61	FIRED 1625	TIME AND DATE 14 Feb 61		
3. TYPE OF FIRING: <input checked="" type="checkbox"/> 1ST MISSILE 15-MIN SALVO <input type="checkbox"/> SINGLE MISSILE SHOOT (Check one)				
4. TIME REQUIRED TO FIRE MISSILE MIN AND SEC 24'		5. MISSILE SCORED AS <input checked="" type="checkbox"/> MISSION ACCOMPLISHED (Check one) <input type="checkbox"/> UNSUCCESSFUL		

PART II - VERIFICATION OF SCORE

6. EVENTS RECORDER MISS-DISTANCE (YARDS)	X -5	Y +10	H -5	R 12.2
7. BURST-DISTANCE INDICATOR	N/A YARDS			
8. DRONE RENDERED NON-FLYABLE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (If yes, explain under remarks)				
9. ALL PHASES OF FLIGHT NORMAL <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (If no, explain under remarks)				
10. OBSERVED IN RANGE GATE OF TTR <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (If no, explain under remarks)				
11. OBSERVED IN NIKE PI SCOPE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If no, explain under remarks)				

PART III - MISSILE AND MISSILE FLIGHT DATA

MISSILE SERIAL NUMBER 5808		16. TYPE BURST COMPUTER
13. WARHEAD TYPE FRAGMENTATION	17. RANGE TO INTERCEPT YARDS 39,000	
14. MISSILE TIME OF FLIGHT SECONDS 57	18. ALTITUDE OF INTERCEPT FEET 26,000	
15. MISSILE VELOCITY AT INTERCEPT KNOTS 1175	19. AZIMUTH TO INTERCEPT MILS 775	

PART IV - MISCELLANEOUS

20. WEATHER: TEMPERATURE 65°	WIND VELOCITY MHR 5	VISIBILITY MILS 50	
21. TARGET: TYPE RP-76	SPEED KNOTS 144	ALTITUDE FEET 28,000	AZIMUTH MILS 800
RANGE (at time of fire) YARDS 46,000			

PART V - REMARKS

- 11. B00 observing vertical plotting board.
- 8. Target destroyed.

Regraded "FOR OFFICIAL USE ONLY" by authority of DF, Ch, Tng Div, Hq USARADCOM, subject: Classification of Report. ADGCS 353.4, subject: "ASP Score and Analysis", dtd 13 Feb 59 on 13 Feb 59.

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PART VI - ANALYSIS OF MISSILE FLIGHT FOR UNSUCCESSFUL MISSILES

FOR UNSUCCESSFUL MISSILES, EXPLAIN THE CAUSE FOR THE MISSILE BEING UNSUCCESSFUL. INCLUDE A COMPLETE ANALYSIS OF THE MISSILE FLIGHT. PERFORM THE CHECKS IN ARADCOM FORM 149 OR 152 AND ATTACH IT TO THE FIRING REPORT.

23. LAST KNOWN MISSILE DATA: AZIMUTH	MILS N/A	ALTITUDE	FEET N/A	RANGE	YARDS N/A
TYPED NAME, GRADE AND SIGNATURE OF BATTERY COMMANDER <i>Henry E. Close</i> HENRY E. CLOSE, Jr, Capt, Arty		TYPED NAME, GRADE AND SIGNATURE OF BATTALION COMMANDER <i>Charles J. McLure</i> CHARLES J. MCCLURE, Lt Col, Arty			
BATTERY <u>D</u> , <u>2d</u> MISSILE BATTALION (NIKE- <u>AJAX</u>), <u>106th</u> ARTILLERY		<u>2d</u> MISSILE BATTALION (NIKE- <u>AJAX</u>), <u>106th</u> ARTILLERY			

24. EVALUATOR'S REMARKS

TYPED NAME AND GRADE OF CHIEF, EVALUATION AND SCORING TEAM

WERNER S. KOHLHAGEN, Lt, GS

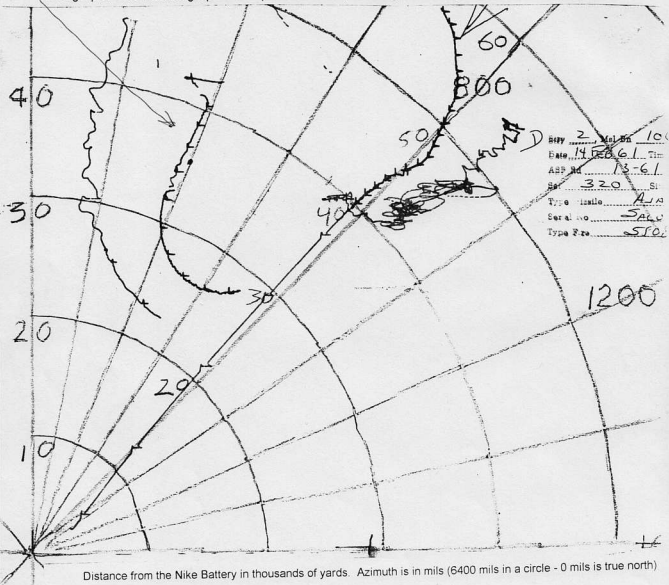
SIGNATURE

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THE HORIZONTAL PLOTTING BOARD TRACE FOR THE KILL BY "SHORT ROUND"

The target was an RP-76 jet drone aircraft. The first time it was tracked, it was at about 29,000 yds range flying on a circular course heading north-northeast. The smooth plot with the "tick marks" is the actual location of the drone; the "squiggly" plot is the predicted point of intercept. They did not fire at the drone on this pass. The drone was flown out to about 60,000 yds range, and flown southwestward toward the launch site. The "tick marks" indicate 10 second intervals.

Butcher fired when the drone was at about 45,000 yds out. The "predicted intercept" pen stops plotting the intercept point at "Fire", and starts plotting the flight path of the missile: the straight line from the center of the board, outward to the target plot. The missile flight plot has 5 plus "tick marks", indicating a time of flight of the missile of 57 seconds.



Distance from the Nike Battery in thousands of yards. Azimuth is in mils (6400 mils in a circle - 0 mils is true north)

THE VERTICAL PLOTTING BOARD TRACE FOR THE KILL BY "SHORT ROUND"

The Right side of the plot is the Target, The left side is the Missile. The vertical scale is Altitude in thousands of feet horizontal scale is "Time to Intercept". Note the RP-76 was at about 28,000 ft in altitude when the missile was fir slowly decreasing in altitude to about 26,000 ft at intercept. The missile climbed to about 17,000 feet in the first seconds of flight (the first "tick mark"), climbing to 30,000 feet at about 35 seconds time-of-flight, then headed down to intercept. The total time of flight of the missile was 57 seconds.

