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DEPARTMENT OF THE AIR FORCE AIR FORCE HISTORICAL RESEARCH AGENCY (AFHRA) MAXWELL AIR FORCE BASE, ALABAMA

July 23, 2009 FOIA 09-02122-F RF1# 2009-64977

AFHRA/RSA 600 Chennault Circle Maxwell AFB, AL 36112-6424 USA

Mr. John Greenewald, Jr.



Dear Mr. Greenewald,

I have researched our archive in response to your request under the Freedom of Information Act pertaining to the document with call number MICFILM 31754, IRIS number 1013876. As a Freedom of Information Act request, it has been designated 2009-02122-F. The request for information number assigned by AFHRA is 2009-64977.

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It is my pleasure to give you any information we have and my sincere hope that the information provided serves you well.

Respectfully,

Cathy Cox Archivist
AFHRA/Research

Enclosure:

1. Copy of original request

2. Copy of document with IRIS # 1013876

Main: AIR FORCE MISSILE DEVELOPMENT CENTER

RECTYPE: Call: MICFILM 31754

IRIS Number: 1013876

BegDate: 07-01-1956 EndDate: 12-31-1957 PubDate: Author:

Title: GAM-63 MISSILE DEVELOPMENT PROGRAM

Title Extension: Title Added Entries:

Class: UNCLASSIFIED LNFT: 0 AudioRec: NumPages: 0 MajCom:

Subject:

Abstract: COVERS VARIOUS ASPECTS OF GAM-63 MISSILE LAUNCHES DURING DEVELOPMENT TESTS AT HOLLOMAN AFB NM, INCLUDING SUCCESSES AND FAILURES. ARMY REQUESTED PERMISSION TO GROUND TRACK GAM-63 RASCAL. FIRST GRAVITY BOMB TEST VEHICLE.

DateRcvd: AddDate: 07-05-1983 IRISRef: Admin: No Administrative Markings Listed

SecInfo:

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HISTORICAL DATA
BOMBARDMENT MISSILE DIVISION
CAM 63 BRANCE

AIR FORCE MISSILE DEVELOPMENT CENTER HOLLOMAN AIR FORCE BASE, NEW MEXICO

MAXWELL AUS AL SGIE	NETUEN TO	
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For Period

1 October - 31 December 1957

Prepared by

BRUNELLE R. MOON, Captain, USAF GAM-63 Branch Chief

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FOREWORD

The following historical data has been committed by this Branch in accordance with the provisions of DIRECTORATE ECF Bumber 5. It represents a factual narrative account of the activities, accomplishments, problems and progress of this organization for the period indicated.

Stunelle R. MOON, CATAIN, USAF Chief, GAM-63 Branch



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NARRATIVE

- 1. Operations
 - a. Launchings
 - b. Other Frograms
 - c. Conferences, Trips
 - d. Other Information



COMMAND DATA

1. Organization

a. Mission

Exercises technical test control of project tests; acts
as technical advisor to the responsible development center; reports
on test activities; coordinates logistic support for the tests,
and briefs visitors as directed on status of project. (U)

b. Changes in Organization

During the period 1 October through 31 December 1957 there have been no changes in organization. Research and Development terminated on 31 October and the E&ST Phase of the GAM-63 Rescal began 1 November 1957. This phase is conducted out of Eglin AFB, Florida, using the test range at AFMDC for launch. (U)

2. Strength

a. Personnel Strength (U)

(1) Chart of Hilitary Personnel Strength

	Total Beginning of Period	Total During Period	Total End of Period
OFFICERS	2	-1	1
A TRIVEN	1	-1	0
CIVILIANS	1	0	1



(2) Chart of Contractor Personnel Strength

	Total Beginning of Period	Total During Period	Total End of Perico
BELL AIRCRAFT CORPORATION	144	-112	32
CONVAIR (FT WORTH)	37	- 37	0
BOBING AIRPLANK CO.	10	_10	0

b. Personnel Changes

The change in personnel during this period was the reassignment of 2nd Lt Simpson E. Adams, Jr., Electronics Officer to the Matador Project. T/Sgt Gerald M. Piel, Scheduling and Propulsion was also reassigned to Matador. (Unclassified)

c. Boster of Key Froject Fersonnel (9)

Branelle R. Moon, Captain, Chief, GAM-63 Branch

MARRATIVE

1. Operations

a. Launchings

During the period 1 October to 31 December 1957, five GAM-63 missiles were launched. (C)

Miseile number 98 was launched 9 October 1957 on its second airborne attempt. The miseile flew as programmed and impacted 680 feet from target. This was considered a successful mission as all objectives were accomplished. This missile carried a simulated warhead. (C)

CASTINIAN .

Missile number 99 was launched 16 October 1957 on its fifth attempt. This missile was used for a profile mission test. The prestrike missions were setisfactory. The strike missions required inflight refueling. One inflight refueling was accomplished on a captive flight, with three inflight refuelings being made on three separate bot launch attempts. The four inflight refuelings were very successful. Strategic Air Command could no longer support our requirements and the remaining strike missions were flown without inflight refueling. This was the first mission to use a military operator to launch the missile. The missile flew as programmed and was considered successful as all objectives were accomplished. (C)

Missile number 100 was launched on its first airborne attentt.

The rocket engine, using Red Funing Eitric Acid as the oxidizer, were used for the first time. The missile carried a simulated warhead. The mission went as programmed and was considered satisfactory as all objectives were obtained. (C)

Missile number 101 was launched on its second sirbrone attempt.

Electrical trouble developed and the missile impacted shortly after

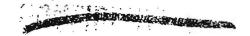
launch. The mission was considered unsuccessful as no objectives were

obtained. (C)

Missile number 96 was launched on its fifth airborne attempt.

No flight data was obtained from this missile. Boost chamber number one blew up approximately at rocket fire. The missile never stabilized and it impacted shortly after launch. (C)





b. Other Progrems

No new programs developed during this period. The Research and Development Tests were terminated 31 October 1957. The Employment and Suitability Tests began 1 November 1957 with Captain X. W. Cully as APGC Lisison Officer at AFMDC. (U)

c. Conferences, Trips

No conferences or tribs were accomplished during this period. (U)

- d. Other Information
- (1) The AN/DPN-31 beacons at AFMDC are to be shirned to Eglin AFB, Florida in the near future. (U)
- (2) The two DB_S7 aircraft that were bailed to Fell Aircraft Corp. were flown to Tinker AFB, Oklahoma, 31 Fecember 1957.

 This completes the transfer of all bailed aircraft back to the Air Force. (U)
- (3) The Sell Aircraft Corporation at AFMDC are in the process of closing out their activity at this Center. The equipment is being sent to various installations as directed by AMC. (U)

This document is classified CCNFIDENTIAL IN accordance with the provisions of Par 30,c,(3), (c), AFR 205-1.



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August 1953

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Of the Total No. of Electe listed sonve, 12 lacte of missiles (Sbrike Crusity Inche Oille Tosts a ' Pot East 18)

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HISTORICAL DATA
BOMBARDMENT MISSILE DIVISION
GAM-63 BRANCH
HOLLOMAN AIR DEVELOPMENT CENTER
HOLLOMAN AIR FORCE BASE, NEW MEXICO

For Period

1 April - 30 June 1957

Prepared by

BRUNELLE R. MOON. Captain, USAF Assistant GAM_63 Branch Chief

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FOREYORD

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BRUNELLE R. MOON, Cantain, USAF

Assistant Chief, GAM_63 Branch

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- 1. Operations
 - a. Launchings
 - b. Other Programs
 - c. Conference, Trios

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COMMAND DATA

- 1. Organization
 - a. Mission

Exercises technical test control of project tests; acts as technical advisor to the responsible development center; reports on test activities; coordinates logistic support for the tests, and briefs visitors as directed on status of project. (Unclassified)

b. Changes in Organization

During the period 1 April through 30 June 1957 there have been no changes in organization. (Unclassified)

- 2. Strength
 - a. Personnel Strength (Unclassified)
 - (1) Chart of Military Personnel Strength

	Total Beginning of Period	Total During Period	Total End of Period
OFFICERS	2	+ 1 & - 1	2
AIRMEN	1	0	1
CIVILIANS	1	0	1

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(2) Chart of Contractor Personnel Strength

	Total Beginning of Period	Total During Period	Total End of Period
BELL	227	- 22	205
CONVAIR	30	- 6	24
BŒING	48	-	48

b. Personnel Changes

The change in personnel was the assignment of 2nd Lt. Simpson E. Adams as Electronics Officer to replace 1st Lt. Robert A. Armstrong who returned to a civilian status. (Unclassified)

c. Roster of Key Project Personnel (Unclassified)

Brunelle R. Moon, Captain, Assistant Chief, GAN-63 Branch

Simpson E. Adams, 2rd Lt., Electronic Officer, GAM-63 Branch

1. Operations

NAPRATIVE

a. Launchings

During the period 1 April to 30 June 1957 two GAN:-63 Rascal missiles were launched and three CBTV were dropped. (Confidential)

Missile number 85F was launched on 10 April 1957 on its second airborne attempt. This was one of the best flights but it was found that the dive angle computer was non-linear and the missile impacted approximately one mile short. (Confidential)

-CONFIDENTIAL

Missile number 87F was launched 14 May 1957 on its second airborne attempt. Everything went as programmed until after normal rocket shut down at which time the alternator or some other equipment malfunctioned and caused an electrical failure. The missile became unstable and impacted 12 miles short of target. (Confidential)

The three CETV were dropped 5 April and 13 June 1957. All drops went as programmed with the maximum miss distance of approximately 1000 feet from target. (Confidential)

b. Other Programs

In order to accommodate as many projects as possible the Integrated Range is requesting crystal control for telemetry, 400 MC receivers on destruct systems, and coded beacons for radar tracking. (Unclassified)

Bell has started work on the telemetry problem and expects completion approximately October 1957. It expects to receive official notice in the near future on the other two problems. The R & D phase will not be appreciably affected by the changes, however it is expected to be mandatory in the E & ST phase. (Unclassified)

The R & D phase of GAM-63 will be terminated in October 1957 and the E & ST phase will begin in October 1957. (Unclassified)

c. Conference, Trips

A conference was held at Headquarters APGC, Eglin Air Force Base, Florida, on 4 June 1957 to discuss the E & ST phase of GAM-63. Captain B. R. Moon attended this meeting. The conference consisted primarily of discussing information from General Putt's Letter on

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the GAM-63 program. Answers to questions asked at this meeting will be forthcoming at the phasing group meeting to be held at Headquarters AMC, Wright-Patterson Air Force Base, Ohio, 27-28 June 1957. (Unclassified)

The army has requested permission to ground track the Rascal with the expectation of using it as a target in the future. Permission can be granted on a non-interference bases. (Unclassified)

The GAM-63 Weapon System Phasing Group meeting on 27-28 June 1957 at Wright-Patterson Air Force Base, Ohio, was attended by Captain Brunelle R. Moon and 2nd Lieutenant Simpson E. Adams, HADC, GAM-63 Project Officer and Electronic Officer. (Unclassified)

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FISCOPICAL DATA

BONDARDSONT WISSLI'S DIVISION

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FOLICUMI AIR FORCE BASE, VEY VIXIOO

For Period

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Fre-ared by

ARTHULLT R. MCCT, Cantain, WEAT Assistant Galland Truck Chief

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The following historical data has been compiled by this Brauch in accordance with the provisions of EIRTORGHUE SOP Humber 5. It represents a factual negrative account of the activities, accomplishments, problems and progress of this organization for the period indicated.

Arunelle K. Moon Mille R. Moon, Cantain, USAF Assistant Chief, CAN-13 Proved THE PARTY OF THE P

TABLE OF CCESENSS

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YARRATIVE

- 1. Omerations
 - e. Lame'irge
 - b. Other Programs
 - c. Conference, Trips

COMMIT TATA

- 1. Organization
 - 9. Yisaion

The mission of the GAMLS3 Branch was to first and modifier test projects and coordinate these activities with the Meanors System Project Office, to provide logistic support required by the contractor and to prepare the necessary reports. (Unclassified)

b. Changes in Organization

During the meriod 1 Jamery through 31 March 1957, there have been no changes in organization. (Unclassified)

- 2. Strength
 - a. Fersonnel Strength (Unclassified)
 - (1) Clart of Vilitary Personnel Strongth

	Total Reginning of Period	Sotel During Period	
CEFICIES	3	_1	2
AISCN	ı	0	;
CIVILLARS	1.	9	1

CONTHICHTIAL-

(2) Chart of Contractor Personnel Strength

	Total Regiming of Period	Fotal During Period	End of Period
BELL AIRCRAFT CORPCRATION	220	+7	227
CCHYAIR (FT WORTE)	2R	+2	30
BORING AIRPLANE CO.	37	+21	πę

b. Person of Stances

The only clears in this Franch was the change in assignment of the project officer, Captain Walter 9. Falmer, who has been transferred to AEDC, Baltimore, Maryland. Captain Brunelle R. Foon, Acting Chief, Bombs Franch, was appointed Assistant Chief, GAM-13 Branch. (Unclassified)

c. Rostor of Her Project Personnel (Unclassified)

Brunelle H. Moon, Captain, Assistant Chief, Galloj Branck

Bebert A. Armstrong, 1st Dt. Mectronics Officer, Galloj Branck

MATRATIVE

- 1. Operations
 - e. Launchings

During the period 1 January through 31 March, four GAM-63
Rescal missiles were launched. (Confidential)

- SOME DENTIAL

Missile Funder SIF was launched on 7 Jon 57 on its 4t' airborne attempt. A Pydraulic failure shortly after missile release caused the missile to go unstable and impact but a few piles from its release point. (Confidential)

Vissile husber 847 was launched on 15 Jen 57 on its 2nd sirborne attempt. An unusually high cross wind present at the release elititude together with a mis-calibrated commers on the DB-47 caused the missile to be approximately 8 degrees off its heading at the diversity. The operator fearing that he might lose eight of the target did not but the maximum corrective commend into the system and consequently the missile impacted about 13,000 ft. from the target, (Confidential)

お思いないないましているのでは、そのことのないないというというとなっていることがは、これでは、これのはいないはないはないないないできないないできないという

Missile Inner SF was launched on 18 Feb 57 on its 18th airborne attent. The missile alternator regulator failed at approximately X nlus 80 seconds causing the lose of the missile at this time. Two of the nine shorts on this missile was a largues of ground safety sectionent failures and were not weapon system failures. (Confidential)

Missile Engber 917 was launched on 19 March 1957 on its
third airborne attempt. This missile was the first missile launched
at FADC that had experienced the full reliability program. Even
with a malfunctioning witch controller and drifting oscillator in
the director command system the missile impacted but a mile short
of the desired impact point. This was a 90 mile flight. (Confidential)

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b. Other Frograms

Other sativities at EADC during this meriod included the continuation of the MOD flights incorporating a 3-35 and the T-FO simulated missile. Amproximately one flight a week is flown in conjunction with this mission. (Confidential)

Scheduled for this week is the first Grovity Borb Lest
Vehicle. This program will convist of three Epscal sinfrance,
weighted to simulate an actual missile, which will be Aromed as a
gravity bomb in order to establish the bollistics of such a configuration.
(Confidential)

A new roling in effect new second to be verying out satisfactorily. This refers to the servicing of limited calibrations that Bigs Air Force Base, is merforming on our Balths. This saves the time involved in sending these A/C hack to Michita for such service. (Unclassified)

A Rescal will be on public display for the first till at Follows Air Revolor and Sector on Armed Forces Pay, 19 Tav. (Unclassified)

c. Conferences, Trips

The GAM-53 Weamon System Phasing Group meeting on 19-20

December 1956, at Wright-Petterson AFB, Ohio, was attended by

Cantein Walter G. Palmer, former FAPC CAM-53 Project Officer. (Unclassified)

A trip to Wright-Patterson AIT, Chio was made 3 Inbruero 1950, by Sentein Brunelle F. Moon, the new SLM_63 Project Officer, to coordinate with the GELL63 Office USES. (Unclassified) A conformore was held at Eq. Ab. C. Follower, Pergland, 19-21 February to discuse the GAT-53. Three Follows: representatives attended this meeting. Results of this trin way he days in Colonel Shapler's report. (Unclassified)

The Army requested comments and recommendations on the fermicility of using the Rascal as an accommande terret. A conformence was held at FARC in March to discuss the above. It was determined that the Easerl Missile probably would not be a suitable terret. (Unclassified)

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BOXBARDMENT MISSILES DIVISION

GAL 63 BRANCH

HOLLOMAN AIR DEVALOPMENT CENTER

HOLLOMAN AIR FORCE BASS, FEW MEXICO

For Period

1 October - 31 December 1956

Prepared by

WALETR G. PALMER, Centain, USAF GAM-63 Branch Chief

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The following historical data become commiled by this Branch in accordance with the provisions of DIRECTORATE SCF Number 5. It represents a factual narrative account of the activities, accomplishments, problems and progress of this organization for the period indicated.

WALTER G. PAIMER, Contain, URAF GAM_53 Brench Chief

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MARRATIVE

- 1. Cherations
 - a. Launchings
 - b. Other Programs
 - c. Conferences, Trins

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COMMAND DATA

1. Organization

e. Mission

The mission of the GALLOS Breach was to direct and monitor test projects and coordinate these activities with the Wespons System Project Office, to provide logistic support required by the contractor and to prepare the necessary reports. (Unclassified)

b. Changes in Organisation

During the period I Cotober through 31 December 1955, there have been no changes in organization. (Unclassified)

2, Strength

- e. Personnel Strength (Unclassified)
 - (1) Chart of Military Personnel Strength

	Total Regiming of Period	Total Daring Period	Total End of Period
officers	2	n	2
Newsia	1	0	3.
CIVILIANS	1	0	1

(2) Chart of Contractor Personnel Strangth

	Total. Beginning of Period	Total During Feriod	End of Period
BELL AIRCRAFT CORPORATION	222	+ 6	228
CCHVAIR (FI WORDE)	32	-3	29
BORING AIRPLANS CO.	38	-1	37

b. Personnel Changes

There have been no personnel changes during the period of this report. (Unclassified)

c. Roster of Key Project Personnel (Unclassified)

Welter G. Palmer, Captain, Chief, GAM-63 Project Office

Robert A. Armstrong, let Lt. Assistant Chief, GAM-63 Office

MARRATIVE

1. Operations

a. Leunchings

During the period 1 October through 31 December, two GAM_63
Rescal missiles were launched. The brisery flight test objective
was to conduct an operational type flight. Both missiles were
lsunched from a EB_47 director missing. (Confidential)

The first of these two missiles was launched on 5 November. Four unsuccessful attempts were made to launch this missile before it was finally released. The missile flight after launch was normal and estisfactory until slightly after the missile had been

CORE ELLEVANOR

HADC ADJS7-17

placed in the terminal dive attitude by the inertial guidance system. At that time, the turbine number shut down as a result of an interruption in fuel flow. The missile became unstable and fell short of the predicted impact point. (Confidential)

The second missile was launched on 27 Kovember. This missile was launched without prior captive flight testing and was launched on the first attempt. Shortly after the end of the boost phase, relay transmitter power dropped to zero and the guidance operator was unable to monitor the missile flight path. As a result, the dive command was given by the inertial guidance system and the operator was unable to correct the flight path in azimuth or pitch. Impact was approximately three miles from the predicted impact point. This missile was the first GAM_63 to be launched 90 nautical miles from the target and during the flight the missile climbed to 70,000 feet and attained an airspeed of Mach 3.0. (Confidential)

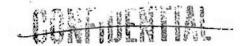
Between the launches of these two missiles, four attempts were made to launch a third GaN-63. A fifth attempt was made immediately following the release of the second missile. After five unsuccessful attempts, the missile was unloaded, defueled, and a complete electronic preflight checkout was initiated. In the meantime, two other missiles were prepared for launch. (Confidential)

Two attempts were made to launch each of these other two missiles during December. After the second attempt, both missiles were unloaded and defucled for the boliday season.

(Confidential)

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b. Other Frogrems

Puring this period, the automatic gain control captive flight testing was continued. The tests were reoriented to test an additional command channel so that the guidance operator could control the setting of the automatic gain control. (Confidential)

Two ceptive flights were made over Kenses City to obtain terminal guidance indicator photogrambs of the area. These Photos will be compared with the predictions of the area made by Ball Aircraft Corporation. (Confidential)

A stabilized automatic tracking antenna system has been inetalled in a DB-36 for captive flight testing of this system. This antenna will be stabilized in space so that when the director sincraft turns after lannoh, the antenna will remain pointed in the direction of the missile. (Confidential)

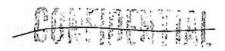
c. Conferences, Trips

Documentation of the GAN_63 Project under ARIC Names 20.4 was initiated by a presentation to the Rolloman Air Development Conter staff on 7 December. Documentation has not been completed at this time. (Unclassified)

A meeting was conducted on 13 December, by representatives of Air Proving Ground Command and Holloman Air Invelopment Center.

The purpose of this meeting was to discuss the Program Review Board Information Outline to be submitted by the GAM-63 Employment and Suitability Testing Project Office. (Unclassified)

Two meetings of the GANLO3 Weenon System Pheeing Group were attended by a representative of the FADC GANLO3 Project Office.



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The first was held on 17-18 October, at Bell Aircraft Cornoration, Wrestfield, New York and the second was at Fandquarters, Air Material Command, Wright-Patterson AFB, Ohio, on 19-20 December. (Unclassified)

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HISTORICAL DATA
BOMBARDMENT MISSILES DIVISION

<u>CAV. 63 HHANCH</u>
HOLLOMAN AIR DEVELOPMENT CENTER

HOLLOMAN AIR FORCE BASE, NEW MEXICO

AL

1 July - 30 September 1956

Prepared by

WAITER G. PALMER, Captain, USAF GAM_63 Branch Chief 1 the Homshow,

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FQREMORD

The following historical data has been compiled by this Branch in accordance with the provisions of DIRECTORATE SOP Number 5. It represents a factual narrative account of the activities, accomplishments, problems and progress of this organization for the period indicated.

WALTER G. PALMER: Captain, USAF GAM_63 Branch Chief

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 - a. Launchings
 - b. Other Programs
 - c. Conferences, Visitations

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COMMAND DATA

1. Organization

a. Mission

The mission of the GAM_63 Branch was to direct and monitor test projects and coordinate these activities with the Manon System Project Office, to provide logistic support required by the contractor and to prepare the necessary reports. (Unclassified)

b. Changes in Organization

During the period 1 July through 30 Sentember 1956, there have been no changes in organization. (Unclassified)

2. Strength

B. Personnel Strength (Unclassified)

CHART OF PERSONNEL STRENGTH

	Total Beginning of Period	Total During Period	Total Sad of Period
of Ficers	3	_1	2
Airmen	1	o	1
CIVILIANS	1	0	1

b. Personnel Changes

The only change in personnel in this branch was the change in assignment of the project officer. Captain William A. Smith, to duty as Wright Air Development Center Limison Officer, with duty station Wright-Patterson AFB, Ohio. Captain Walter G. Palmer assumed duty as GAM-63 Branch Chief. Captain Palmer was appointed Civil Air Patrol Limison Officer effective 1 July 1956 on Special Order Number 133. Headquarters, Holloman Air Development Center, 2 July 1956, and was assigned additional duty as project officer, Holloman Air Development Center Operations Plan Number 6-57, 1 September 1956. (Confidential)

NARRATIVE

1. Operations

a. Launchings

During the period covered by this report, two GAN_63 Rascal missiles were launched. The primary flight test objective was to evaluate the XIR_6?_RA_9 engine. (Confidential)

The first of the two was fired on 6 August, from a IB-36. This missile had been filled with acid thirteen days and had been acheduled to fly five times before it was finally launched. Inhibited White Fuming Nitric Acid was used for the second time and chemical analysis of the acid varied only in the third figure. A bladder fuel tank was also used for the first time. Performance of this missile was excellent. (Confidential)

The second missile was launched on 11 September. This missile was the first to be filled with said by the B-1 Acid Trailer. Pre-launch check-out and launch from a EB-47 were satisfactory. Fourteen seconds after launch the missile was destructed without ground command. An investigating committee could not determine the exact cause for destruct but modifications with the approval of Missile Flight Safety, have been made to reduce the possibility of reoccurrence. (Confidential)

b. Other Programs

During June, July and August, 1955, tests were made of the ability of an observer to identify his siming point with Rascel Guidance equipment. These tests were conducted on Phosnix, Arizona, using a F-89 to simulate the missile and a DB-36. Results were indicated by a redar bond scoring unit. Strategic Air Command observers performed the guidance functions. (Confidential)

In September an extensive captive program was initiated to investigate and determine the best values to be used in actting up the sutematic gain control in the unattended search radar. (Confidential)

c. Conferences, Visitations

The only conference held during this period was the Westpon System Phasing Group meeting at Holloman Air Davelopment Genter on 16 and 17 August 1956. (Unclassified)

Two groups of personnel planning to participate in Engineering and Suitability Testing in Air Proving Ground Command bave visited this facility to observe the procedures used by Bell Aircraft to prepare a missile for flight. (Unclassified)

