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HISTORY

OF THE

6994th SECURITY SQUADRON

1 JULY- 31 DECEMBER 1966

RCS: AU-D5 (AFS-1)

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HISTORY
OF THE
6994th SECURITY SQUADRON
1 July- 31 December 1966
RCS: AU-D5 (AFS-1)

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FOREWORD

This document is the historical account of the operational functions of the 6994th Security Squadron and its two detachments. Included within are subjects which could not be included in the unit's AU-D5 report because of security restrictions. The period covered here is from 1 July- 31 December 1966. The classification of this history is TOP SECRET CODEWORD.

Since the squadron and its two detachments share the same mission requirements, needless duplication is avoided in most cases. The histories of the detachments are, however, presented in the appendices. Also included in the appendices is a brief history of the operations and functions of the Airborne Radio Direction Finding Coordination Center (ACC).

The research and writing was done by Sgt Odom; Sgt Taylor was responsible for the ACC report. The Historian was mainly concerned with editing and style.

All suggestions and comments concerning this history should be directed to the Office of Information.

ROBERT E. HOSKINS, A1C, USAF
Historian

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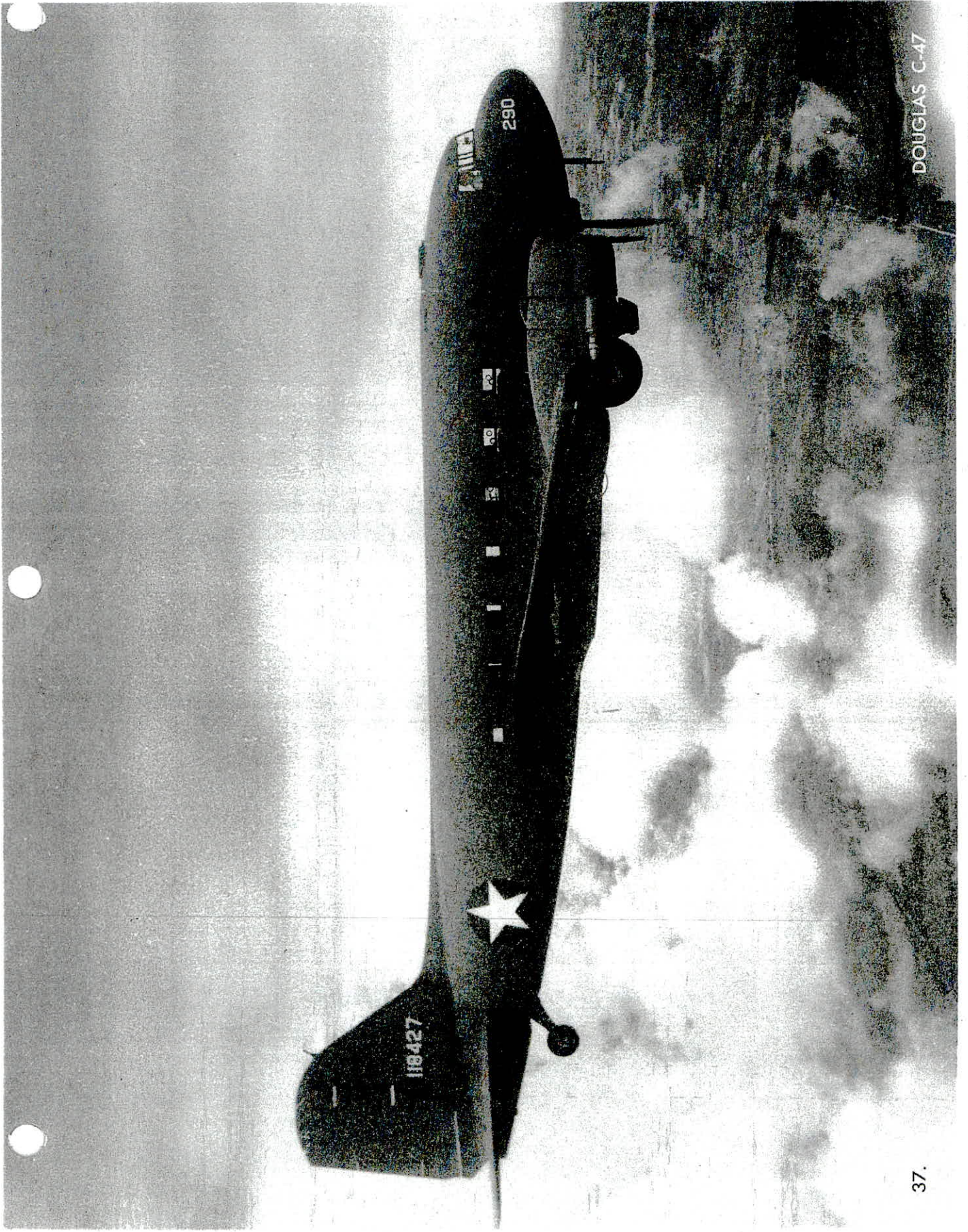
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CHAPTER I- MISSION AND ORGANIZATION

Mission

(U) [REDACTED] The specific mission of the 6994th Security Squadron was to perform the United States Air Force Security Service (USAFSS) role in the Airborne Radio Direction Finding program in Southeast Asia. The unit accomplished its mission through the resources of Projects Phyllis Ann, Drill Press, and Hawkeye. Through these facilities the unit provided:

- (1) direct COMINT support to combat activities by pinpointing the location of Viet Cong targets, and passing the information to Direct Support Units (DSU)
- (2) ARDF of Viet Cong targets for United States Army Security Agency (ASA) units in support of exploitation activities, and
- (3) augmentation of ASA intercept facilities through the ARDF acquisition equipment and the Drill Press airborne collection platforms.

(U) [REDACTED] The mission of the organization was unique. Its entire function was that of a collection activity, operating in support of Army, Navy, and Marine SIGINT activities. The organization had no processing responsibility and played only a passing role in reporting.

Organization

(U) [REDACTED] The 6994th Security Squadron was located at Tan Son Nhut AB, Vietnam. The squadron was directly subordinate to the 6922d Security Wing located at Clark AB, Philippines. Units subordinate to the squadron were its two detachments: Detachment 1, located at Nha Trang; and Detachment 2, located at Pleiku. Operationally, the unit was subordinate to Headquarters, Seventh Air Force, also located at Tan Son Nhut. However, due to its close tactical support mission to both ground and air activi-

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ties, operational control was normally accepted as being exercised by Military Assistance Command, Vietnam (MACV-J2).

(U) [REDACTED] The squadron provided administrative support to the USAFSS Liaison Office (SSLO); to the Security Service personnel assigned to the National Security Agency's SIGINT Support Group (SSG Det); and to USAFSS personnel assigned to the ARDF Coordinating Center (ACC). The SSLO and the SSG Detachment functioned independently of the squadron, and played no role in the mission accomplishment. The ACC, however, played a major role in the squadron's mission. And although it was a joint activity, the ACC functioned somewhat as an operational element of the organization.

Organizational Changes

(U) Since the last reporting period, Detachment 1, 6994th Security Squadron, was activated at Nha Trang AB, Vietnam on 1 July 1966.

Detachment 2, 6994th Security Squadron, was activated on 1 September 1966, at Pleiku AB, Vietnam.

Deployments

(U) [REDACTED] A contingent of personnel and one Drill Press aircraft was deployed to DaNang AB, Vietnam, from 24 July to 9 August 1966. This move was at the direction of the Director of Intelligence, Seventh Air Force, for the explicit purpose of providing airborne collection of targets in the Demilitarized Zone that were known or suspected to be passing exploitable traffic relating to the tactical situation of Operation Hastings-- a major ground offensive in the area combatting the infiltration of the PAVN 324B NVA Division.

(U) [REDACTED] On 23 August 1966, the entire Drill Press contingent deployed to Pleiku. The deployment was in response to a request by the Army's 509th [REDACTED]

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⁵
Radio Research Group. The group wanted airborne collection of targets associated with the 630th Military Front which was cited by DIRNSA as the largest Viet Cong tactical concentration in South Vietnam. ⁶ Although the support continued through 23 September 1966, ⁷ the deployment was terminated ⁸ on 26 August due to the limited logistical support available at Pleiku.

(U) [REDACTED] From 24 September to 7 December 1966, the 6994th Security Squadron maintained a detached activity at DaNang. Until 16 October, the activity consisted of the entire Drill Press contingent and approximately four Phyllis Ann aircraft and the complete crew compliments. The activity ⁹ was established to fulfill the mission requirements in the DMZ and in Laos.

On 16 October, the Drill Press contingent moved its operating loca- ¹⁰ tion to Hue/Phu Bai Air Base, Vietnam. This move was made to achieve better coordination with USM-808 personnel who were providing technical support for the operation. The Drill Press deployment to Hue/Phu Bai continued; however, the Phyllis Ann operation at DaNang ceased on 7 December 1966, when Detachment 1, ¹¹ assumed responsibility for the mission accomplishment in the DMZ.

Internal Organizational Changes

(U) [REDACTED] Several internal changes occurred within the operations section. Most of the changes evolved from the fact that the organization represented an entirely new concept in missions and operations. Many of the changes took place after the section moved to the communications/operations ¹² building in early July 1966. This move consolidated numerous functions that had been separated due to the location of vans which were utilized as work areas.

(U) [REDACTED] In mid-July, the Drill Press working area was moved from an H1 [REDACTED]

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van located in the DODSPECREP compound, to the 6994th communications/operations building. No changes in functions or operations occurred.

(u) [REDACTED] Prior to 1 September, technical support for Phyllis Ann missions was prepared and distributed from a mobil van located within the compound of the 509th Radio Research Group. The TEXTA bank for the targets was maintained by the Army at its Whitebirch site located off Tan Son Nhut. This made it necessary for the 6994th to make at least one daily trip to the facility to pick up the necessary TEXTA information. It was also necessary for the aircrews to stop at the van to pick up TEXTA prior to departing on a mission. On 1 September, this function was transferred to the 6994th operations area and incorporated into the mission control section.

One analyst was placed at the Whitebirch site to extract and deliver TEXTA to the 6994th. Simultaneous with the transfer of TEXTA distribution, the issue of COMUS pads was made a responsibility of the 6994th, and no longer that of the ACC. These two actions eliminated the need for the aircrews to stop at the 509th enroute to the aircraft.

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(U) The remainder of the changes involved reporting functions, and will be discussed in that section.

Chart One

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GEOGRAPHICAL LOCATIONS
6994th SECURITY SQUADRON ACTIVITIES

"Drill Press" Operating Location

Det 2, 6994th Security Squadron

Det 1, 6994th Security Squadron

6994th Security Squadron

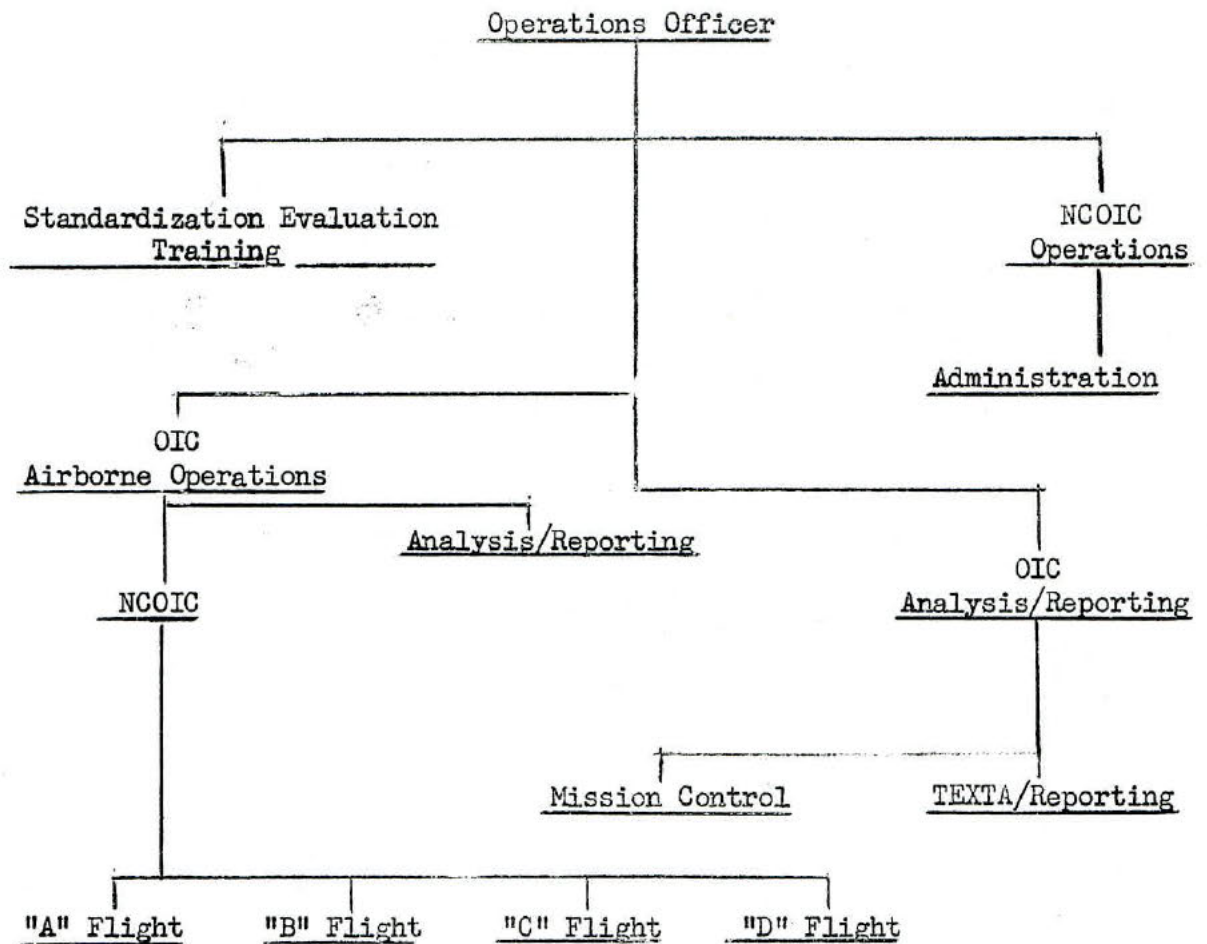


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6994th SECURITY SQUADRON

Operations Section

Organizational Chart



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CHAPTER II- SIGINT TASKING AND COLLECTION

SIGINT Tasking

(U) [REDACTED] As a general rule, both Phyllis Ann and Drill Press were tasked against Viet Cong communications targets. There were some instances, however, where Drill Press received special tasking against targets other than Viet Cong. These items are covered in detail under the section entitled "Special Collection Projects."

(U) [REDACTED] In brief, the procedures for tasking the Phyllis Ann ARDF aircraft was as follows: Tactical commanders submitted their ARDF support requirements to MACV-J2; each Tuesday, MACV-J2 consolidated the requests, assigned priorities to the tasks, and allocated sorties, by service, to satisfy the requirement. Also, MACV-J2 specified the area, by coordinates, in which the sorties were allocated. Each Wednesday a delegation consisting of representatives from the 6994th Security Squadron; 460th Tactical Reconnaissance Wing; 509th Radio Research Group; NSA Pacific Representative, Vietnam [REDACTED]; Seventh Air Force; and the ACC met at MACV-J2 to discuss the proposed ARDF tasking schedule. Each Thursday the ACC would forward an ARDF tasking schedule to the 6994th Security Squadron and the 360th Reconnaissance Squadron. Working jointly, these units formulated a weekly schedule by aircraft tail number. In actuality, the 6994th Security Squadron played a non-authoritative role in the tasking. The tasking as received in final form was complete and specific. Requirements and problems were formulated, evaluated, and resolved by MACV-J2, Seventh Air Force, and the ACC with the 6994th acting only as informant in the proceedings.¹

[REDACTED]

[REDACTED]

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SIGINT Collection

(U) [REDACTED] The SIGINT collection capability of the squadron consisted of airborne COMINT collection through the facilities of Drill Press, and ARDF through the facilities of Hawkeye and Phyllis Ann. A limited COMINT collection source was also provided by the acquisition facilities of the ARDF system.

SIGINT Collection Facilities

(U) [REDACTED] The collection facilities of the squadron consisted of the two Drill Press aircraft, the one Hawkeye aircraft, and 11 Phyllis Ann aircraft. The only decrease in capability was the termination of Project Hawkeye. A major increase in capability took place with the addition of 10 aircraft to the Phyllis Ann fleet at Tan Son Nhut. Improved capability was also noted in the night operations of Phyllis Ann. Overall, the number of Phyllis Ann aircraft in-country increased from one to 25.

Hawkeye

(U) [REDACTED] The single Hawkeye aircraft was equipped with a prototype ARDF system, and contained no acquisition/collection equipment. The aircraft flew its last mission on 9 July 1966. The equipment was subsequently stripped from the airframe and the aircraft returned to the United States during early August.²

Drill Press

(U) [REDACTED] Chart three reflects the Drill Press aircraft as they were equipped during the period. The chart also shows the modifications in equipment configuration that were made by utilizing spare equipment on-hand. These modifications were deemed essential for maximum mission effectiveness.

[REDACTED]

[REDACTED]
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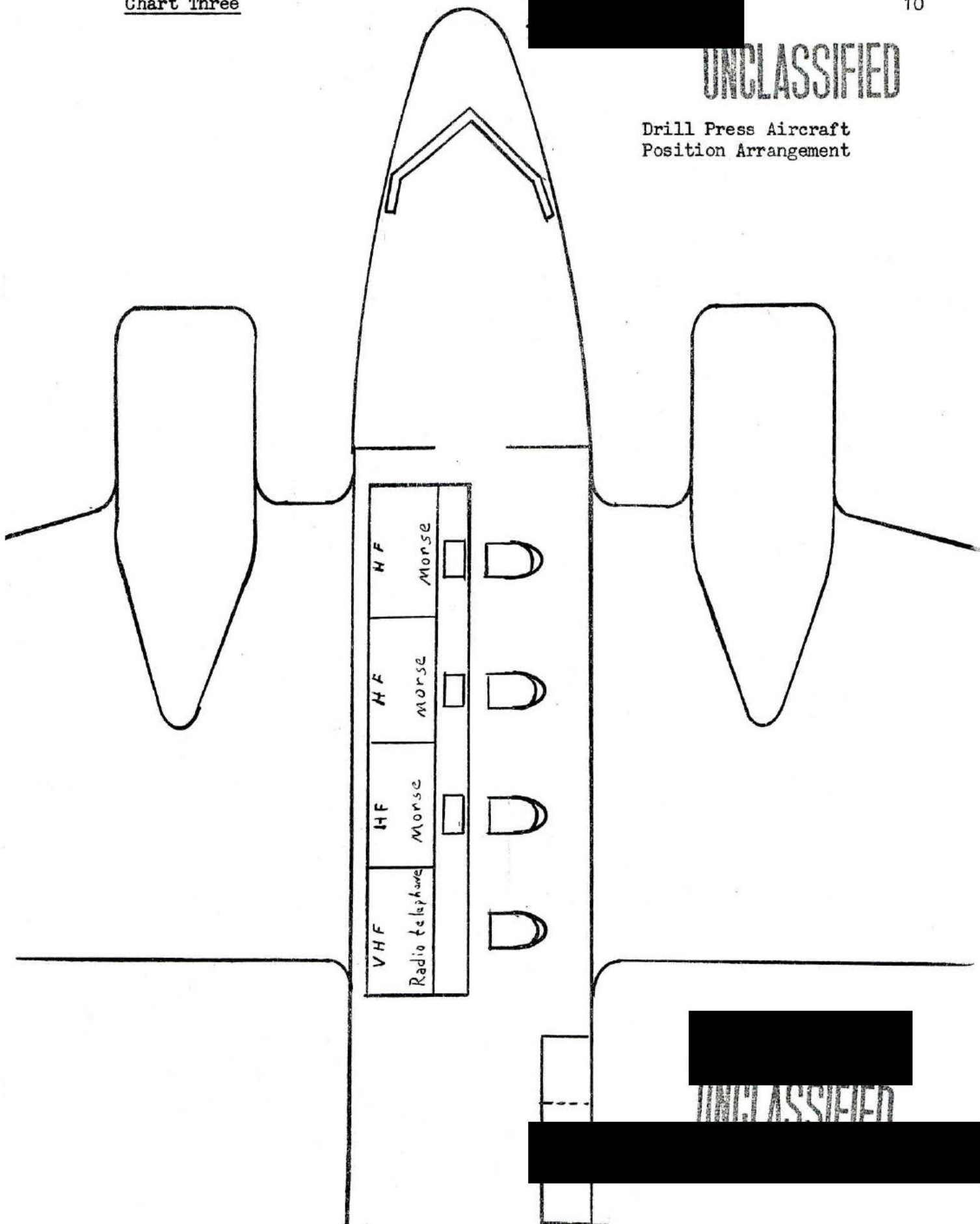
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(U) [REDACTED] On 13 December 1966, Drill Press aircraft 43-49680 was sent to Taiwan for corrosion control maintenance. To preclude exceeding the 125-hour per month, per airframe, maximum flying hour limitation, Drill Press missions were reduced to one five-hour daily mission, with every third day a non-mission day.⁴ Normal operations were resumed on⁵ 28 December 1966.

[REDACTED]
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[REDACTED]

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Drill Press Aircraft
Position Arrangement



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(43-49680)
(43-16254)Drill Press Aircraft/Position Configuration
(43-49680 Only)(43-49680)
(43-16254)

JUNE

JULY

SEPTEMBER

POSITION

EQUIPMENT

1	2 - G133B HF Receivers 2 - AIC10 Intercomm	2 - G133B HF Receivers 2 - AIC10 Intercomm	2 - G133B HF Receivers 2 - AIC10 Intercomm
2	1 - G133B HF Receiver 1 - G1200 Tape Transport 1 - G119H Record Amplifier 1 - AIC10 Intercomm 1 - Record Control	2 - G133B HF Receivers 1 - AIC10 Intercomm	1 - G133B HF Receiver 1 - AIC10 Intercomm 1 - G119H Record Amplifier 1 - G1200 Tape Transport 1 - Record Control *1 - Patch Panel
3	1 - G133B HF Receiver 1 - G1200 Tape Transport 1 - G119H Record Amplifier 1 - AIC10 Intercomm 1 - Record Control 1 - Antenna Transfer	2 - G133B HF Receivers 1 - AIC10 Intercomm 1 - Antenna Transfer	2 - G133B HF Receivers 1 - AIC10 Intercomm 1 - Antenna Transfer
4	1 - G175A VHF Receiver 1 - G1200 Tape Transport 1 - G119H Record Amplifier 1 - G276A Demodulator 1 - SKL 212 Television Amplifier 1 - AIC10 Intercomm 1 - Record Control 2 - Antenna Transfers	1 - G175A VHF Receiver 1 - G1200 Tape Transport 1 - G119H Record Amplifier 1 - G276A Demodulator 1 - SKL 212 Television Amplifier 1 - AIC10 Intercomm 1 - Record Control 2 - Antenna Transfers *1 - Patch Panel	1 - G175A VHF Receiver 1 - G1200 Tape Transport 1 - G119H Record Amplifier 1 - G276A Demodulator *2 - SKL 212 TV Amplifier 1 - AIC10 Intercomm 1 - Record Control 2 - Antenna Transfers

* Patch panel provided record capability from all positions.

+ Two SKL 212's were connected in series to increase signal strength of R401 signals.

Chart Four

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Phyllis Ann

(U) [REDACTED] ARDF facilities consisted of 10 AN/ARD-18 equipped aircraft.⁶

Only one aircraft was operating at the beginning of the period. And only four of the aircraft were equipped with the "Y" acquisition/collection⁷ position. Chart five displays the equipment configuration within the aircraft.

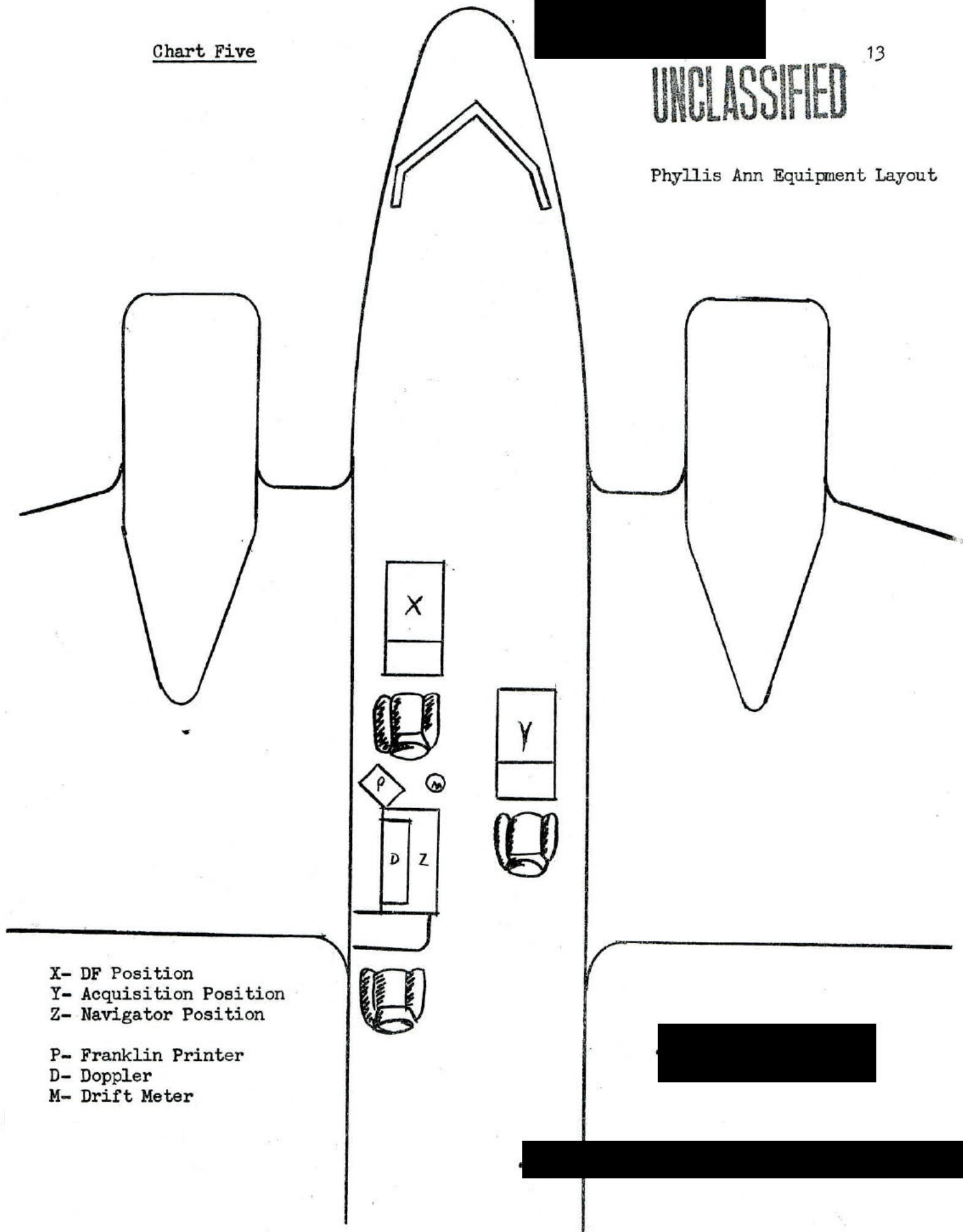
(U) [REDACTED] During early October 1966, the night mission capability of Phyllis Ann aircraft was improved through the use of the MSQ-77 Air Force Ground Radar System-- "Sky Spot". Prior to this time, it was possible to fly night missions only if radar coverage in the area was adequate. Since a high priority requirement often existed for ARDF missions in areas without sufficient radar coverage for tracking/positioning of the aircraft, the usable range of the MSQ-77 was extended by placing a "black box" aboard the Phyllis Ann aircraft. This box, dubbed "Music Box", was easily installed and removed from the aircraft, and was placed only in those aircraft scheduled to accomplish night missions in areas not adequately covered by radar. Its use extended the effective range of the ground radar for approximately 100 miles. This system was also used to guide tactical air missions. Due to a limited number of the "Music Boxes", several instances occurred in which scheduled Phyllis Ann missions were cancelled due to⁸ lack of equipment.

[REDACTED]

[REDACTED]

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Phyllis Ann Equipment Layout



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Expansion

[REDACTED] Early in 1966, USAFSS was directed to place 35 ARDF aircraft in-country between April and November. Shortly thereafter, the total figure was increased to 47. Considerable slippage occurred in the delivery of these aircraft, and as the terminal date of this report, only 25 aircraft⁹ were in-country. Most delays resulted from manufacturing problems experienced by sub-contractors, and did not appear to be the fault of Sanders Associates-- manufacturers of the AN/ARD-18 system.¹⁰

(U) [REDACTED] Cannon Electric Company, manufacturer of the electrical connectors used in the ARD-18, advised that no further components would be available for an indefinite period of time.¹¹ Sufficient connectors were available at Sanders to fabricate up to the twentieth AN/ARD-18 system.

(U) [REDACTED] Globe Industries, suppliers of motors to the Franklin Manufacturing Company which makes the Franklin Printer utilized in the AN/ARD-18 system, ceased delivery of their product until December 1966. Sanders, however, had 33 printers available, and advised that after these were installed, no further deliveries of complete AN/ARD-18 systems could be made prior to February 1967.¹²

(U) [REDACTED] Receipt of unservicable printed circuit cards retarded fabrication of receiver modules for the AN/ARD-18 system. Several sources of supply for this product were subsequently established by Sanders to¹³ alleviate this problem.

(U) [REDACTED] Due to the production problems identified, Sanders Associates¹⁴ projected 33 AN/ARD-18 systems to be completed by 30 November 1966. Of this total, three systems were shipped for spares, one system was utilized for Phase III testing, one system for Tempest testing, and one for maintenance training purposes. The remaining systems were programmed for

[REDACTED] [REDACTED]

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[REDACTED]

deployment, and the projected aircraft delivery schedule was revised to schedule a total of 27 ARDF aircraft in-country by 31 December 1966. Aircraft deliveries did not meet this revised schedule, and a total of 25 aircraft were in-country as of 31 December 1966.

Phyllis Ann Test Transmitter

(U) [REDACTED] Shortly after the arrival of the first Phyllis Ann aircraft, a need arose for a transmitter with characteristics similar to those of the target transmitters. This transmitter would be used by the aircraft to perform an operational check of the equipment prior to departing the local area for an operational mission. In early July, a low powered transceiver was borrowed from a local unit, the 505th Tactical Control Group. This transceiver was used for this purpose. However, when maintenance crews deployed the transceiver to various locations within the perimeter of Tan Son Nhut AB, the effort was ineffective since the aircraft were unable to hear the transmissions. Test were then attempted against a transmitter located on Tan Son Nhut with continuous operation. This effort was also quite ineffective, and was aborted.

(U) [REDACTED] During August, a transceiver (KWM-2) was received that had been programmed into the Phyllis Ann program to be used for this specific purpose. The transmitter was installed in the 6994th Security Squadron's mission maintenance facility located on the flight line. The antenna provided for the KWM-2 was horizontally polarized; thus it could not be used for the intended purpose. Maintenance personnel were successful in securing and installing a vertically polarized antenna that was well suited for the test application. The transmitter was placed

[REDACTED]

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[REDACTED]

into operation, and manned by Phyllis Ann radio operators.

(U) [REDACTED] Generally, this system was utilized for an operational check-out of the AN/ARD-18 system and its associated components. However, on 28 October, a procedure was instituted wherein Phyllis Ann aircraft conducted an extensive test against the transmitter. Numerous precise patterns at various stand-off ranges were flown against the test target. The LOPs were plotted and the overlays and the print-out from the Franklin Printers were forwarded to Sanders Associates in late December for further study.

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Chart Six

<u>Serial No.</u>	<u>Type</u>	<u>Date Arrived</u>	<u>"Y" Installed</u>	<u>Location</u>
43-15112	EC47-A	26 May 1966	No	Tan Son Nhut
44-76524	EC47-D	29 Jun 1966	Yes	Tan Son Nhut
43-48126	EC47-D	8 Jul 1966	Yes	Tan Son Nhut
43-48767	EC47-D	10 Jul 1966	Yes	Tan Son Nhut
45-1046	EC47-D	10 Aug 1966	Yes	Tan Son Nhut
43-48933	EC47-D	11 Sep 1966	No	Tan Son Nhut
42-93166	EC47-D	13 Sep 1966	No	Tan Son Nhut
43-49865	EC47-D	16 Sep 1966	No	Tan Son Nhut
42-93735	EC47-A	3 Oct 1966	No	Tan Son Nhut
44-76668	EC47-D	19 Oct 1966	No	Tan Son Nhut
44-77016	EC47-D	17 Oct 1966	No	Nha Trang
42-23520	EC47-D	3 Nov 1966	No	Nha Trang
42-93161	EC47-D	9 Nov 1966	No	Nha Trang
43-49100	EC47-D	10 Nov 1966	No	Nha Trang
45-1044	EC47-D	17 Nov 1966	No	Nha Trang
43-15668	EC47-D	21 Nov 1966	No	Nha Trang
43-48886	EC47-D	3 Dec 1966	No	Nha Trang
43-49201	EC47-D	3 Dec 1966	No	Nha Trang
43-48480	EC47-D	3 Dec 1966	No	Nha Trang
44-77254	EC47-D	8 Dec 1966	No	Pleiku
43-48153	EC47-D	10 Dec 1966	Yes	Pleiku
43-48158	EC47-D	14 Dec 1966	No	Pleiku
43-49703	EC47-D	17 Dec 1966	No	Pleiku
43-48102	EC47-D	20 Dec 1966	No	Pleiku
43-48072	EC47-D	29 Dec 1966	No	Pleiku

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Special Collection Projects

(U) [REDACTED] From 3 to 15 October 1966, Drill Press was tasked with a
20
TRANSEC mission in the DMZ. Authority for the tasking was USAFSS Special
TRANSEC Requirement 20-66. The purpose of the mission was to detect
possible compromises of impending B-52 Strato Fortress bombing missions
in the DMZ. Position number four (VHF) was utilized for the mission,
and was manned by Drill Press analysts. A total of 16 monitor tapes were
forwarded to Detachment 5, 6922d Security Wing. Two items pertaining to
21
the B-52 activity was gleaned from the intercept.

(U) [REDACTED] Beginning 26 October 1966, Drill Press conducted a collection/
search mission for R401 multi-channel communications suspected to be
22
emanating from the DMZ. Position number four was utilized for this miss-
ion. In actuality, the intercept and recording of R401 signals was beyond
the capability of the equipment installed on this position. The G120C/G119H
record equipment had a maximum 10KC record capability and undemultiplexed
R401 signals were 12KC bandwidth.
[REDACTED]

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(U) [REDACTED] To overcome this problem, the signal was demultiplexed prior to recording, and only channels one and two of the R401 transmission actually recorded. Initial success in monitoring R401 signals was experienced on the first day of the test; however, the signals were of such poor quality that they were unrecordable. To increase the signal strength to a level that would facilitate recording, two SKL 212 television amplifiers were placed in series and connected to the G175 VHF receiver.²³ Several successful intercepts of R401 transmissions occurred, but none of the transmissions could be identified as originating in the DMZ.²⁴

(U) [REDACTED] Beginning 5 December 1966, Drill Press was tasked with providing Phyllis Ann aircraft with air-to-air tip-off on priority targets intercepted by the Drill Press operators.²⁵ UHF frequencies were used and the transmissions were encrypted by COMUS pads. The overall effectiveness of the effort was somewhat limited by the non-compatibility of the aircraft schedules which often occurred. However, all fixes obtained were high priority targets.

Chart Seven

<u>Date</u>	<u>Tip-off's Passed</u>	<u>Results</u>
5 Dec 1966	6	1- fix
6 Dec 1966	3	2- fixes
7 Dec 1966	4	
10 Dec 1966	2	
11 Dec 1966	4	
12 Dec 1966	6	3- fixes
14 Dec 1966	5	
15 Dec 1966	5	

Phyllis Ann Leaflet Drop

(U) [REDACTED] It became increasingly more evident that the Viet Cong were aware of the fact that airborne COMINT activities were being used against them. Army ARDF aircraft noted with increasing frequency that transmitters abruptly ceased operations when the aircraft was in their vicinity. Too, interrogation reports, captured SOIs, and translated message texts confirmed this awareness. Undoubtedly, this situation developed to some degree from the fact that the Army ARDF aircraft employed the AN/ARD-15, Aural Null, ARDF system which required frequent tell-tale maneuvering of the aircraft in the vicinity of the target being fixed.

(U) [REDACTED] Phyllis Ann aircraft did not record a single instance of a transmitter indicating awareness of their presence or purpose. This was possibly due to the fact that the EC-47 was relatively new in the area, and because the AN/ARD-18 system allowed ARDF with few maneuvers of the aircraft. It was feared, however, that the constant presence of the EC-47 aircraft in an area would eventually suggest their purpose to the enemy. ²⁶

(U) [REDACTED] In August, these factors prompted the 6994th Security Squadron to recommend that any steps possible be taken to provide cover and deception for Phyllis Ann activities. ²⁷ It was suggested that one method of achieving this purpose would be to give the aircraft an outwardly appearance of a psychological-warfare mission. It was thought that this could most easily be accomplished by dropping a limited number of leaflets while flying over target areas. The 6922d Security Wing agreed with the proposal and passed it on to higher headquarters for evaluation and consideration. ²⁸ However, the Pacific Security Region did not feel it advisable to use the Phyllis Ann aircraft for other than the intended

[REDACTED] [REDACTED]

[REDACTED]

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purpose at that time.

(U) [REDACTED] The subject lay dormant until mid-October when it was discussed with Colonel Edwin H. Garrison, commander of the Pacific Security Region, during a visit to Tan Son Nhut. After gaining full particulars on the scope of the proposal, Colonel Garrison agreed with the recommendation. He then authorized the squadron to pursue the matter with Seventh Air Force. ³⁰ After working out specific details, USAFSS and other interested parties concurred, and the idea was implemented. ³¹

(U) [REDACTED] The first drop was made in early November. The actual task of dropping the leaflets was normally accomplished by the flight mechanic, and had no affect on the actual mission. Approximately 50,000 leaflets ³² were normally expended during a mission.

[REDACTED]

[REDACTED]

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CHAPTER III- PROCESSING AND REPORTING

Processing

(U) [REDACTED] The organization was not tasked with a processing mission. The processing functions outlined below were accomplished for the purpose of providing technical support and establishing records.

(U) [REDACTED] During August, the squadron submitted a proposal to the 6922d Security Wing that an evaluation of certain operational functions be included in the DOMR.¹ The proposal was accepted by the wing, and guidelines and implementation instructions were forwarded.² Air/ground fix reporting, and ARDF recovery reports were evaluated under this system. The results were included in the DOMR.

(U) [REDACTED] A daily mission evaluation was initiated during December. Designed to measure the effectiveness of each mission, this function provided the airborne collection section with a recap of daily mission results. It was also useful in indicating trends, both good and bad, relative to equipment and operator performance.³

(U) [REDACTED] During December, a weekly feedback letter was introduced. The purpose of this letter was to provide the squadron and detachment commanders with an insight into the Phyllis Ann mission effectiveness for the previous week.⁴

Reporting

(U) [REDACTED] The reporting mission of the organization was initially accomplished by the airborne personnel upon completion of a mission. However, due to the increasing reporting requirements incurred by the continual expansion of the unit's capability, and since personnel programmed to accomplish these additional requirements were arriving, a reporting [REDACTED]

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section was formed during latter September. Labeled "Mission Control and Evaluation", the section incorporated all reporting and technical support functions within operations. The section did not prepare Drill Press technical support or the Drill Press Operational Summary. These reports continued to be written by Drill Press analytical personnel. The section was manned by non-flying 202X0 personnel. Establishing an around-the-clock schedule when necessary, the section accomplished the following functions:

Position Status Report (PSR)

(U) [REDACTED] This report was implemented during June 1966. The purpose of the report was to identify master program accountable items, and to report the position status (operational readiness) of Phyllis Ann and Drill Press aircraft to higher headquarters. The 6922d Security Wing Regulation 27-1, dated 22 November 1966, governed the preparation of the PSR.

Phyllis Ann Weekly Summary

(U) [REDACTED] This report, implemented during May 1966, was designed to keep interested consumers aware of the accomplishments of Phyllis Ann. This report was issued by the 6994th from June through the first week of November, at which time the 6922d assumed responsibility for its publication.

Daily Operational Management Report (DOMR)

(U) [REDACTED] The DOMR was implemented on a 30-day test basis on 1 August 1966. Upon completion of the 30-day test, the report was established as a continuing requirement. Interim instructions were contained in the 6922d's OPR-M 02241, 02 Oct 66.

*Two non-flying 292X1 personnel were also assigned to the section, but were later reassigned to another unit due to UMD authorizations.

[REDACTED] [REDACTED]

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USAF Special Sensor Report

(U) [REDACTED] Initiated during September at the request of Seventh Air Force (DIOF), this report was designed to provide local consumers with a daily appraisal of the results of Phyllis Ann and Drill Press missions.

ARDF Recovery Report

(U) [REDACTED] This report was issued to interested agencies and consumers immediately upon completion of a mission. This report contained all ARDF fixes and cuts obtained by each Phyllis Ann mission. This function was later transferred from AGC to the mission control and evaluation section on 4 September. About 10 December, the responsibility for the publication of these reports was transferred to the airborne collection section where its preparation was accomplished by A292X1 personnel.

Drill Press Weekly Operational Summary

This report, prepared by the Drill Press analysts, incorporated a SIGINT summary provided by the Army. The operational statistics provided certain consumers with a comprehensive weekly summary of the project's activities.

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CHAPTER IV- MISSION ACCOMPLISHMENTS

(U) [REDACTED] Through its ARDF and airborne COMINT collection missions, the 6994th Security Squadron played a vital role in support of combat operations in South Vietnam. ¹ During the period of this report, the squadron provided support, directly or indirectly, for approximately 48 major offensive operations. Much of the planning and execution of both ground and air operations stemmed from material provided through the Phyllis Ann and Drill Press programs. Operational planning often relied heavily on intensive ARDF coverage of suspected areas of enemy concentrations. ² Through the results obtained from ARDF information, it was possible to pinpoint the probable locations of enemy concentrations; thereby facilitating the establishment of valid boundaries for the actual area of operations.

(U) [REDACTED] COMINT, enhanced by ARDF and airborne collection, provided tactical commanders with specific locations of significant targets. By placing these targets under constant ARDF surveillance, COMINT material kept field commanders constantly alert to target movements and plans. It was often possible to determine, to some degree, the impact of tactical operations on enemy activities through ARDF.

(U) [REDACTED] Very little discrimination between Air Force and Army ARDF results was made in the after-action reports. The product of ARDF efforts was reported directly to direct support units (DSUs) that were co-located with the Army combat elements. The fusion of the Army and Air Force ARDF results, and the fact that all COMINT collected was analyzed and reported by Army Security Agency units, resulted in limited recognition being given to the Air Force for its contributions. Still, many local and national consumers cited the valuable and outstanding accomplishments of the Phyllis Ann program. [REDACTED]

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(U) In order to simplify reporting some of the more significant mission accomplishments, they are presented in chronological order by project.

Drill Press

(U) [REDACTED] Until 27 July, Drill Press was supporting the Army's 175th Radio Research Company by providing an extension to their intercept capability of Viet Cong targets in the general vicinity of Saigon. Drill Press positions were specifically tasked against those terminals of the Military Intelligence Bureau, COSVN, known or suspected to be passing exploitable traffic of high intelligence value.

(U) [REDACTED] In most instances these targets could be intercepted by the 175th's ground intercept facility; however, the intercept was of such poor quality that corrupt text was causing extensive loss of valuable intelligence.³ After a 28-day period during which 17 significant intelligence reports were issued from Drill Press intercept, the commander of the 175th stated, "Drill Press is providing an estimated 75 per cent of our usable intelligence."

(U) [REDACTED] On 28 July 1966, the director of intelligence, Seventh Air Force, deployed one Drill Press aircraft to DaNang to fly in support of Operation Hastings which was underway to combat the infiltration of the PAVN 324B NVA Division in the DMZ.⁴ One aircraft continued to support the 175th. The aircraft in the DMZ was specifically targeted against a net reporting on the tactical situation of the operation in an exploitable code system. Drill Press was able to contribute significantly to the COMINT support of the operation.⁵ General W. C. Westmoreland, commander, USMACV, personally cited the Drill Press effort for this achievement.⁶

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(U) [REDACTED] Although it was the general opinion that Drill Press should remain in the DMZ, General McChristian (MACV-J2) personally notified the 509th Radio Research Group of a request that the aircraft be returned from DaNang, and both aircraft be staged against targets in the Phuoc Tuy Province in support of Operation Toledo.⁷ This request was honored, and on 10 August, Drill Press began supporting the operation.⁸ The after-action report on the operation cited COMINT, mostly ARDF, as being largely responsible for the ultimate success of this operation.

(U) [REDACTED] On 23 August, consumer interest was centered in the Ia Drang Valley near Pleiku. DIRNSA had fixed the 630th Military Front-- the largest tactical concentration in Southeast Asia-- as being in the area.⁹ Drill Press was deployed here to bolster the extremely limited facilities of Detachment 1, 16th RRU, which was providing support for Operation Paul Revere, underway to combat this force. Initially, the entire Drill Press contingent was deployed to Pleiku AB; however, due to crowded facilities there, the deployment was aborted and the missions staged from Tan Son Nhut with an operational stop at Pleiku upon completion of each mission.¹⁰ And although Drill Press was achieving a high degree of success in this operation,¹¹ the effort was terminated on 23 September due to a higher priority intelligence requirement.¹²

(U) [REDACTED] On 24 September, the entire Drill Press contingent was deployed to DaNang, and on 17 October, continued on to Hue/Phu Bai.¹³ Missions were staged from these areas to the northern Quang Tri Province near the DMZ. The target was the PAVN 324B NVA Division and associated communications. During this period Drill Press accomplished 118 missions; provided USM-803 with a source of intelligence for 10 TACREPs, 9 Spot Reports, and 48 select

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translations. General Marshall S. Carter, Director, NSA, lauded the Drill Press accomplishments in a personal message to General Louis E. Coira, commander, USAFSS.
15

Phyllis Ann

(U) [REDACTED] The Phyllis Ann ARDF effort received even less feedback relative to its contributions to the war effort than did Drill Press. Numerous statistical accounts were maintained to illustrate the high degree of success the project was achieving. However, documentation from consumers was limited largely to the most outstanding achievements.
16

(U) [REDACTED] Beginning in late October, arrangements were made locally to secure copies of intelligence reports issued from information gained from ARDF. Each report was compared with Phyllis Ann operator logs to establish whether or not the source was Phyllis Ann. Although the number of reports received by the organization through this source was far from complete, 122 TACREPs, Spot Reports, and electrical releases were credited to Phyllis Ann during the period 23 October through 31 December.
17

(U) [REDACTED] During July and August, Phyllis Ann provided support for several major offensive operations. One operation most clearly illustrated the effectiveness of utilizing ARDF in both planning and conducting tactical operations. This operation was Operation Toledo. Conducted from 11 August through 7 September 1966, it was originally intended as a search and destroy operation in the eastern portion of Phuoc Tuy Province. However, no contact was made with the enemy in this area. Based exclusively on ARDF results, the area of operation was extended west to encompass an area in which COMINT had located a Viet Cong division. Throughout the remainder of the operation, maneuvering of Allied Forces was based entirely on ARDF.
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And although no significant contact was made with fleeing enemy forces, the operation was termed highly successful.

(U) [REDACTED] During early September, Phyllis Ann aircraft commenced operations in the Fleiku area in support of Operation Paul Revere. Initially the aircraft were staged from Tan Son Nhut, and accomplished an operational stop at Fleiku upon completion of a mission. Shortly thereafter, operations were extended to the DMZ (Operation Prairie), and Laos (Steel-Tiger/Tiger Hound). An operational location was established at DaNang and missions to the Fleiku area were conveniently executed by aircraft staged from Tan Son Nhut.

(U) [REDACTED] This operation continued until late December when the responsibility was assumed by Detachment 1. Army commanders in charge of Operation Paul Revere praised the air support and reconnaissance provided the operation. In a briefing given to Admiral Sharp on 29 September, General Brown (MACV-J2) also praised COMINT and ARDF support given to operations in the DMZ.

(U) [REDACTED] During October, ARDF results contributed significantly to the tactical activities of Operation Attleboro-- the largest offensive of the Vietnam War. Ten B-52 strikes were based entirely on ARDF information. Phyllis Ann ARDF was cited for one significant engagement of the operation.

(U) [REDACTED] In November, two significant instances of ARDF effectiveness were cited. On 12 November artillery fire on a Viet Cong Division Headquarters was directed from a Phyllis Ann fix. And on 21 November, a convoy was warned of a probable ambush through a Phyllis Ann ARDF fix. Each member of the crew of this aircraft was awarded the Distinguished Flying Cross.

PHYLLIS ANN MISSION SUMMARY

<u>Month</u>	<u>Number Of A/C</u>	<u>Missions</u>	<u>Aborts</u>	<u>Fixes</u>	<u>Fixes Passed To DSU</u>	<u>Hours Flown</u>
Jul	4	25	12	114	90	206.8
Aug	5	87	28	169	128	483.1
Sep	8	138	20	382	291	921.9
Oct	10	246	23	687	484	1589.8
Nov	10	255	25	640	547	1667.1
Dec	10	258	31	667	644	1717.5
		Totals- 1009	139	2659	2184	6586.2

Chart Nine

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PHYLLIS ANN CLOSE TACTICAL SUPPORT

<u>Operation</u>	<u>Month</u> (Fixes/Passed to DSU)					
	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
Holsworthy	2/1	11/11				
El Paso II	35/28					
Yorktown	7/6					
El Paso III		10/9				
Paul Revere II		1/1	19/10	29/18		
Paul Revere III				52/1		
Paul Revere IV						3/3
John Paul Jones		1/1				
Toledo		33/23	13/13			
Oahu		17/0	4/0			
Attleboro				78/75	87/85	
Byrd				12/3	11/11	28/22
Fairfax/Charleston Lanaki/Brevertton					22/22	15/14
Atlanta/Ingram/Canary					19/19	29/21
Tigerhound					16/9	
Hayman					1/1	
Prairie				127/29	138/111	13/13
Steel Tiger					10/8	
Kailua-Kalihi				4/4	13/12	
Ingram					9/9	
Mississippi					1/0	
Bismark/Nisquale/Damburg						32/32

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Chart Nine (cond)

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<u>Operation</u>	<u>Month</u> Fixes/Passed to DSU)					
	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
Fitchburg						4/4
Duck						19/19
Picket/Damtan 81						7/7
Thayer			7/1			
Meadow Lark/Robin			4/3	11/11		
Bathurst				23/28		
Sunset Beach				31/31		
Tulsa				13/11		
Shenandoa				32/26		
Attleboro/Shenandoa				47/45		
Bathurst/Queenbeyan				14/11		
Seward				7/8		
Atlantic				18/17		

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Chart Ten

- 1 - 601st Security Sqdn
- 2 - Area of Operation "Attleboro"
- 3 - Area of Operation "Toledo"
- 4 - Det 1, 601st Security Sqdn
- 5 - Area of Operation "Paul Rowland"
- 6 - Det 2, 601st Security Sqdn
- 7 - Da Nang Air Base
- 8 - Hoa Phu Base
- 9 - Tiger Hunt Area
- 10 - Area of Operation "Hastings" and "Prairie"
- 11 - Steel Tiger Area



FOOTNOTESChapter I

1. Hist ACC, Jul- Dec 66, p. 1, app. 3.
2. Hist Det.1, 6994th Scty Sq, Jul- Dec 66, app. 1 .
3. Hist Det. 2, 6994th Scty Sq, Jul- Dec 66, app. 2.
4. Ltr, DIO, 7th AF, subj: Drill Press Deployment, 23 Jul 66, Doc.1.
5. Interview, MSgt T. Z. Odom with 1st Lt Jack A. White, OIC Mission Control, 1 Mar 67.
6. Msg, DIRNSA, Z/O/VCM/R138-66 (SCW), Doc. 2.
7. Msg, USM-704 IAPVS3/Im 6265 0874, Drill Press, 22 Sep 66, Doc. 3.
8. Interview, Sgt Odom with Major Elmer D. Fisher, Asst Ops Off, 13 May 67.
9. Msg, USM 704 IAPVS3/IM 6265 0873. Loss of SSQV-6, 22 Sep 66, Doc. 4.
10. Interview, Sgt Odom with Major Fisher, 13 May 67.
11. Ibid.
12. Ibid.
13. Ibid.

Chapter II

1. MACV Directive 381-23.
2. Brief, 6994th Scty Sq Oper (Phyllis Ann), Sup 1, 22 Jul 66.
3. 7th AF OPSORD 433-66, 31 Dec 65.
4. Msg, 6994th Scty Sq OPR-2 20447, Drill Press OPS Summary, 20 Dec 66.
5. Msg, 6994th Scty Sq OPR-2 27595, Drill Press OPS Summary, 27 Dec 66.
6. Hist, 6994th Scty Sq, RCS: AU-D5 (AFS-1), 1 Jan 67.
7. USAFSS Master Program 67-2-II.
8. Interview, Sgt Odom with CMSgt Raymond A. Neyland, NCOIC, Maint, 1 Apr 67.
9. USAFSS Master Program 67-2 II.

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- [REDACTED]
10. Brief, 6994th Scty Sq Oper (Phyllis Ann), Sup 2, 22 Oct 66.
 11. Ibid.
 12. Ibid.
 13. Ibid.
 14. Ibid.
 15. Interview, Sgt Odom with SSgt Carl G. Little, NCOIC, Airborne Maint Sec, 1 May 67.
 16. Interview, Sgt Odom with SMSgt James A. Nicks, Maint, 1 May 67.
 17. Ibid.
 18. Msg, DIRNSA 136/347 D/F46/1443, Spec SEA Coverage, 2 Sep 66, (SCW) Doc. 5.
 19. Msg, DIRNSA ADP/374-66, Spec Drill Press Oper, (SHVCCO), Doc. 6.
 20. Msg, AFSSO OPRTS 24133 (Det 5, 6922d Scty Wg), Drill Press, 24 Oct 66. (SHVCCO)
 21. Ibid.
 22. Msg, 6994th Scty Sq CDR 26514, Drill Press Employment for Intercept of SAM Multi-channel Comm, 26 Oct 66 (SCW), Doc. 9.
 23. Interview, Sgt Odom with Major Fisher, 13 May 67.
 24. Msg, USA-32 Multi-channel VCACAR 032-66, 6 Dec 66, (SCW), Doc. 10.
 25. Msg, USM 704 IAPVS3/ACC 6336-2398, Phyllis Ann/Drill Press, 2 Dec 66, (SHVCCO) Doc. 11.
 26. Brief, (Phyllis Ann), Sup 2, 22 Oct 66.
 27. Ibid.
 28. Ibid.
 29. Ibid.
 30. Ibid.
 31. Ibid.
 32. Ibid.
- [REDACTED]
- [REDACTED]

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1. Msg, 6994th Scty Sq OPR2 17217, Aug 66.
2. Msg, 6922d Scty Wg OPR-M 01736, Aug 66.
3. Interview, Sgt Odom with Lt White, 1 Mar 67.
4. Ibid.
5. Interview, Sgt Odom with Major Fisher, 13 May 67.
6. Ibid.
7. Msg, 6922d Scty Wg OPR-M 01268, Jun 66.
8. Msg, PACSCTYRGN OPRO 26424, May 67.
9. Msg, 6922d Scty Wg OPRM 02590, Nov 66.
10. Msg, 6922d Scty Wg OPR-M 1625, Aug 66.
11. Interview, Sgt Odom with MSgt Billy G. Pickard, Ops Sec, 12 May 67.
12. Msg, 509th RRG IAPVS3/IM6255 2177, Feedback on Drill Press Operations.
13. Msgs, NSAPACREP, Vietnam (C) F46/0110, dtg 080341Z, Jan 66.
PACSCTYRGN OPR-P 27979, dtg 230244Z, Jun 66.

Chapter IV

1. Ltr, Brig Gen J. A. McChristian, USA, MACV-J2, subj: Outstanding Performance During 1966, 20 Dec 66.
2. Ibid.
3. Interview, Sgt Odom with Capt Byron A. Almquist, OIC, Abn Coll, Mar 67.
4. See below, pp. 2-4.
5. Msg, 509th RRG IAPVS3 6213 1690, Drill Press, 1 Aug 66, Doc. 14.
6. Msg, DIRNSA DIR 147, COMUSMACV Congratulatory message, 1 Sep 66, Doc. 15.
7. Msg, USM 808 IAPVJOP 6219 50682, Drill Press Support, 1 Aug 66.
8. Msg, 6994th Scty Sq OPR 06087, After-action Report for Operation Toledo, 6 Oct 66, Doc. 16.
9. See below, pp. 2-4.

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10. Msg, 6994th Scty Sq OPR-2 31410, Drill Press OPS Summary, 31 Aug 66.
11. Ltr, CDR 1st Cav Div, Major Gen John Norton, subj: Letter of Appreciation, 2 Sep 66, Doc. 20.
12. See below, pp. 2-3.
13. Ibid.
14. Drill Press Weekly Operational Summary.
15. Msg, DIRNSA DIR 195, 13 Dec 66.
16. Ltr, DODSPECREP, 26 Dec 66, Doc. 22.
17. Read File, actual count for the period.
18. See below, p. 26.
19. Ibid.
20. Ibid.
21. Ibid.
22. Interview, Sgt Odom with Major Fisher, 13 May 67.
23. See below, p. 26.
24. Msg, USM 704 IAPVS3/ACC 6280 1139, Value of ARDF, 7 Oct 66, Doc. 23.
25. After-action Report, Operation Attleboro.
26. Msg, USM 704 IAPV337 630301, ARDF Support, 2 Oct 66, Doc. 24.
27. Msg, USM 614, IAPV 337-4 63165, ARDF Results, 13 Nov 66, Doc 25.
28. Msg, 509th RRG TACREP, 21 Nov 66, Doc. 25.

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GLOSSARY

A

AB Air Base
ACC ARDF Coordination Center
ACRP Airborne Communications Reconnaissance Program
app. Appendix
ARDF Airborne Radio Direction Finding
ASA Army Security Agency

C

COMINT Communications Intelligence
COMUSMACV Commander, United States Military Assistance Command, Vietnam

D

DIRNSA Director, National Security Agency
DMZ Demilitarized Zone
DODSPECREP Department of Defense Special Representative
DOMR Daily Operational Management Report
DRV Democratic Republic of Vietnam

G

GEEIA Ground Electronics Engineering Installation Agency

M

MACV Military Assistance Command, Vietnam

N

NCO Noncommissioned Officer
NCOIC Noncommissioned Officer In Charge
NSA National Security Agency

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O

OPSCOM Operations-Communications

P

PACSCITYRGN Pacific Security Region

PSR Pacific Security Region

S

SEA Southeast Asia

SIGINT Signal Intelligence

SSLO Security Service Liaison Office

T

TACREP Tactical Report

TDY Temporary Duty

TEXTA Technical Extracts Traffic Analysis

TRANSEC Transmission Security

U

USA United States Army

USAF United States Air Force

USAFSS United States Air Force Security Service

USMC United States Marine Corps

USN United States Navy

SUPPORTING DOCUMENTS

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Document 8

24/1513L OCT 66
PRIORITY
FM: AFSSO
TO: DET 2 PACSCTYRGN
INFO: PACSCTYRGN
6922 SCTYWG
6924 SCTYSQ
6994 SCTYSQ

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0408634

(U) [REDACTED] OPRTS 24133 OCT 66. FM DET 5,
6922 SCTY WG. ALL FOR OPR. REF DET 2 PSR OPR 00755,
18 OCT 66. SUBJECT: EMPLOYMENT OF DRILL PRESS
RESOURCES EMPLOYED FOR TRANSEC MISSION AFSS 20-66.
THE FOLLOWING EVALUATION AND COMMENTS ARE FORWARDED
IAW UR OPR 00755. A. DRILL PRESS MONITOR COMMENCED
ON 3 OCT 66 AND TERMINATED ON 15 OCT 66. SIXTEEN
MONITOR TAPES WERE FORWARDED TO DET 5. B. COMPLETE
MONITOR LOGS WERE PREPARED BY DET 5 ON THE FIRST TWO
TAPES RECEIVED FOR THIS MISSION. APPROXIMATELY EIGHT
MAN HOURS WERE REQUIRED TO TRANSCRIBE THESE TWO TAPES,
AND NO SIGNIFICANT INTELLIGENCE INFORMATION WAS NOTED.
ALL SUBSEQUENT TAPES WERE REVIEWED BY ANALYSTS WHO
TRANSCRIBED ONLY THAT INFORMATION WHICH WAS RELATED TO
AFSS 20-66. C. SPECIFIC PRODUCTIVITY STATISTICS ARE
NOT PRESENTLY AVAILABLE. THE 16 TAPES CONTAINED APPROX-
IMATELY FOUR MINUTES OF TRAFFIC PERTINENT TO AFSS 20-66.
D. TRAFFIC PERTAINED MAINLY TO ARMY GROUND ACTIONS, I.E.,
ARTILLERY FIRINGS, COORDINATION OF TROOP MOVEMENTS INTO
AND OUT OF SPECIFIC AREAS, CONVOY INFORMATION, ETC.
ONLY TWO TRANSMISSIONS, BOTH ON 14 OCT., CONTAINED IN-
FORMATION RELEVANT TO AFSS 20-66. DATA WAS REPORTED
VIA TIOI, OPRTS 16091 OCT 66. E. TRAFFIC OBTAINED
DURING THIS MISSION (OTHER THAN THE TWO ARC LIGHT
ITEMS) DID NOT APPLY TO ANY CURRENT USAF TRANSEC ACT-
IVITY. F. RECOMMEND USING SELECTIVE TRANSCRIPTIONS
OF DRILL PRESS TRANSEC TAPES FOR REASONS OUTLINED IN
B AND D ABOVE. G. TAPES WERE OBTAINED ON A NON-INTER-
FERRING BASIS. NORMAL DRILL PRESS MISSION PRE-
CLUDED AFSS 20-66 MONITORING ON THREE DAYS DURING
MONITOR PERIOD. H. (1) COMMENTS. ON SUPPORT PROVIDED
AFSS 20-66. DRILL PRESS PERSONNEL WERE EXTREMELY
COOPERATIVE IN SUPPORTING AFSS 20-66. THEY DEMON-
STRATED MORE THAN A PASSING INTEREST IN THIS PROJECT
AND EVERY EFFORT WAS MADE ON THEIR PART TO OBTAIN
AS FULL AND COMPLETE A COVERAGE AS POSSIBLE. THEY
WENT OUT OF THEIR WAY ON SEVERAL OCCASIONS TO PROVIDE
DET 5 WITH THE STATUS OF THE MONITOR EFFORT AND ALWAYS
INSURED THAT THE TAPES WERE FORWARDED ON A TIMELY BASIS.
(2) COMMENTS REGARDING FUTURE TRANSEC USE OF DRILL PRESS:
FUTURE TASKINGS OF THIS TYPE COULD BE USEFUL WHEN
ACTIVITY CANNOT BE MONITORED FROM DET 5 OPERATIONS SITE
AND A MOBILE TEAM CANNOT BE ECONOMICALLY OR SAFELY DEPLOYED
TO THE DESIRED MONITOR SITE. DO NOT BELIEVE THAT UTILIZATION
OF DRILL PRESS RESOURCES ON A CONTINUING BASIS WOULD
PRODUCE ADEQUATE RESULTS TO JUSTIFY EFFORTS. HOWEVER,

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FEE [REDACTED] RESOURCES COULD BE EFFECTIVELY UTILIZED
FROM TIME TO TIME TO IDENTIFY THOSE AREAS (BASES)
WHICH MAY BE IN NEED OF USAF TRANSEC UHF/VHF MONITOR
SERVICES. ALSO, POSSIBILITY THAT DRILL PRESS POSITION
WOULD BE USEFUL IN EVENT JOINT TRANSECEFFORT (ARMY/
USAR) IS REQUIRED FOR ANY SPECIFIC MISSION. GP-1

[REDACTED]

[REDACTED]

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ROUTINE

6994 SCTY SQ

6922 SCTY WG

INFO: PACSGTYRON

0408635

T [REDACTED] COMDR 26-574 OCT 66. SUBJ:

DRILL PRESS EMPLOYMENT FOR INTERCEPT OF SAM MULTI-CHANNEL
COMM NEAR DMZ VIETNAM. 7AF REQUEST 699488 TO DETERMINE
QUOTE. (A) THE CAPABILITY AND FEASIBILITY OF EMPLOYING
DRILL PRESS AIRCRAFT, WITH THEIR PRESENT CONFIGURATION,
TO INTERCEPT MULTICHANNEL (R-401) COMMUNICATIONS EMANAT-
ING FROM SAM COMPLEXES IN NORTH VIETNAM; (B) THE AMOUNT
OF INFORMATION WHICH CAN BE OBTAINED FROM THESE COMMUNI-
CATIONS; (C) THE METHOD OF INTRODUCING THIS INFORMATION
INTO 7AF CONSUMER CHANNELS SO THAT IT CAN BE USED IN OP-
ERATIONAL PLANNING; AND (D) THE ADVISABILITY OF EMPLOY-
ING DRILL PRESS AGAINST THESE COMMUNICATIONS ON A CONTIN-
UING BASIS. UNQUOTE. WE ADVISED 7AF THAT: QUOTE. DRILL
PRESS EQUIPMENT CAN BE EMPLOYED TO INTERCEPT AND RECORD
MULTI-CHANNEL SAM COMMUNICATIONS. THE DRILL PRESS ORBIT
NEAR THE DMZ WILL BE ADJUSTED TO AFFORD BEST POSSIBILI-

26

OCT

66

1

2

LT COL GILBERT

REGINALD G.M. GILBERT, LT COL, USAF
OPERATIONS OFFICER

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ROUTINE

LT COL GILBERT

20 JUL 69

TIES OF INTERCEPTING THESE COMMUNICATIONS. SUCH SIGNALS, WHEN INTERCEPTED, WILL BE RECORDED AND THE TAPES GIVEN TO THE 6924 SECURITY SQUADRON AT DA NANG FOR READOUT AND REPORTING. 697TH AIR FORCE WILL BE AN ADDRESSEE ON ANY RESULTING CONSUMER REPORTS, WHICH WILL BE ISSUED BY THE 6994TH SS. THE DOD SPECIAL REPRESENTATIVE IS BEING ADVISED ON THIS MATTER SINCE IT RELATES TO 6924TH SS RESOURCES FALLING WITHIN THEIR PURVIEW. 000 AFTER DRILL PRESS HAS BEEN EMPLOYED ON THIS TASK FOR A WEEK, WE WILL MAKE RECOMMENDATIONS TO 7TH AIR FORCE AS TO THE ADVISABILITY OF CONTINUING. *Black World*

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DE YADNRO 221 340133Z
P 0613300Z
FM USA-32
TO DIRNSA
INFO USA-790
NSAPACREP VIETNAM (C)
USM-808
ZEM

SUBJECT:**DRILL PRESS**
MISSION

(U)

SECTION ONE OF TWO

USA-32 MULTICHANNEL VCACAR 032-66, 06 DEC 66, RCS: NSA-916
DRILL PRESS SUCCESSFULLY INTERCEPTS VINH SAM REGIMENTAL
COMMUNICATIONS, 29 NOV 66.

A DRILL PRESS MISSION CONDUCTED SOUTH OF THE DE-MILITARIZED
ZONE ON 29 NOV 66, YIELDED SIXTY MINUTES OF DEV SAM-ASSOCIATED
MULTICHANNEL INTERCEPT EMANATING FROM THE VINH SAM REGIMENT.
PREVIOUS DRILL PRESS MISSIONS HAD BEEN SUCCESSFUL IN INTER-
CEPTING THE HANOI ADMINISTRATIVE NET, BUT NO DATA OF AN IMMEDI-
ATE SIGNIFICANCE WAS PRODUCED BY THIS INTERCEPT. COLLECTION
SUCH AS THAT MADE ON 29 NOV, HOWEVER, MAY PROVE USEFUL, BOTH IN
MAINTAINING CONTINUITY ON THE VINH NET AND IN SUPPLEMENTING
INPUT FOR THE ISSUANCE OF SIGINT PRODUCT AND TECHNICAL REPORTS.

FOR EXAMPLE, SHORTLY BEFORE 0555Z ON THE DATE OF INTERCEPT,
AN UNIDENTIFIED SPEAKER IN CONTACT WITH THE VINH REGIMENTAL
CONTROLLER (CDS: LEE LOWIJ) MADE A REFERENCE TO AN ACFT HAVING
BEEN SHOT DOWN IN THE VICINITY OF THANH HOA. THE SPEAKER STATED
"QUOTE" NOW IT IS CONCRETE... THEY ARE SHOT DOWN AT THAT PLACE
"UNQUOTE". HE DID NOT ELABORATE FURTHER. THIS INTERCEPT WAS
NOT DUPLICATED BY THE CONTEMPORARY SILVER DAWN MISSION, WHICH
AT THE TIME OF INTERCEPT WAS FLYING TOO FAR NORTH IN THE GULF
OF TONKIN TO INTERCEPT THE VINH NET (VOZO Q3007).

COMMENTS: DESPITE THE FRAGMENTARY NATURE OF THE REFERENCE TO
A SHOOTDOWN, BELIEVE THE TRAFFIC ENCLOSED AS TECH DATA WILL
DEMONSTRATE CLEARLY THE POTENTIAL VALUE OF CONTINUED COLLECTION
OF MULTICHANNEL COMMUNICATIONS BY DRILL PRESS MISSIONS.

ANALYSTS THIS STATION EXTEND CONGRATULATIONS TO USA-5570 ON THE
SUCCESSFUL ACCOMPLISHMENT OF A DIFFICULT INTERCEPT TASK.
REQUEST COMMENTS OR SUGGESTIONS PERTAINING TO THE MORE TIMELY
PROCESSING/REPORTING OF SUBJECT INTERCEPT.

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UNITED STATES MILITARY FORCE COMMAND 7, VIETNAM
APO SF 96243-96222
Office of the Assistant of Staff, Intelligence

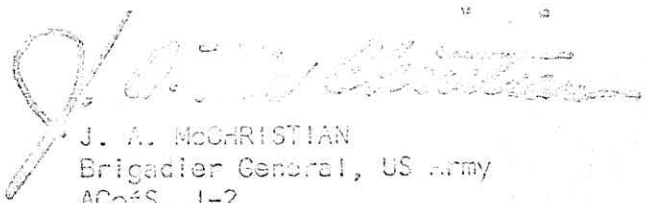
MACJ2

12 DEC 1966

SUBJECT: Outstanding Performance During 1966

TO: Department of Defense Special Representative, APO 96307
Commanding Officer, 509th Radio Research Group, APO 96307
Commander, 6994th Security Squadron, APO 96307

Your joint efforts during 1966 have set the successful pattern for the future. You continue to provide intelligence of great value to all elements of this command. The quantity and quality of your output improves weekly. Your performance has been outstanding. Please convey my compliments to all concerned. May you enjoy a Merry Christmas and a New Year of happiness and continued success during 1967.


J. A. McCHRISTIAN
Brigadier General, US Army
ACofS, J-2

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Document 13

UNITED STATES MILITARY
APO SF
Office of the Assistant

CE COMMAND, VIETNAM
96243-96222
of Staff, Intelligence

MACJ2

20 DEC 1966

SUBJECT: Outstanding Performance During 1966

TO: Commander
6994th Security Squadron
APO 96307

As reported in a recent J2 staff briefing, the accomplishments for the period immediately prior to 13 Dec of surpassing previous records. This outstanding performance enhanced the production of intelligence enabling the Commander to make accurate and timely decisions. Please convey my personal gratitude to all concerned for this exemplary work.

J. A. HUGHES
Lieutenant General, US Army
APO SF, 32

cc: DODSECRET, APO 96307
CO, 509th RAG, APO 96307

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3. I AM PARTICULARLY MINDFUL OF THE ASSISTANCE PROVIDED IN THIS
INSTANCE BY THE 699TH SCTY SQDN AND THE DRILL PRESS PERSONNEL.
HEARTIEST CONGRATULATIONS FOR ANOTHER JOB WELL DONE.

268

11/10/50

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XX

ROUTINE

6994 SCTY SQ

USAFSS

PAOSOTYRON

6922 SCTU WG

PROJECT CORDA HARVEST
DO NOT DESTROY

0408641

No

(u) [REDACTED] OPR 06097 OCT 66. SUBJ: AFTER
ACTION REPORT FOR OPERATION TOLEDO. BELOW IS EXTRACT OF
 ARDF PORTION OF AFTER-ACTION REPORT ON SUPPORT RENDERED
 173RD AIRBORNE BRIGADE FROM 11 AUG TO 7 SEP 66. SUBJECT
 REPORT SUBMITTED BY ASA DETACHMENT WITH 173RD DOES NOT
 MAKE DISTINCTION BETWEEN USAF AND ASA ARDF CONTRIBUTIONS.
 HOWEVER REPORT CITES 105 FIXES IN SUPPORT OF OPERATION
 TOLEDO. NOTE ACTION TAKEN BASED ON ARDF INCLUDE MANEUVER-
 ING WHICH VALUE IS NOT AS READILY QUANTIFIED AS AIR STRIKES
 AND ARTILLERY FIRE ACTIONS. EXTRACT FOLLOWS: OPERATION
 TOLEDO WAS CONDUCTED BY THE 173RD ABN BDE WITH ATTACHED
 UNITS IN CONJUNCTION WITH A SPECIAL LANDING FORCE (USMC)
 THE 10TH ARVN DIV AND THE RATF. TOLEDO WAS ORIGINALLY IN-
 TENDED TO SEARCH FOR AND DESTROY ANY VIET CONG IN THE MAI
 TAO AREA. (THIS AREA IS IN EASTERN PHUOC TUY PROVINCE,
 PROVINCE,

OCT 66

4614

LT COL GILBERT


 R. GILBERT, LT COL, USAF
 CER

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ROUTINE

LT COL GILBERT

LT COL GILBERT

AND IS SO CALLED BECAUSE OF A PROMINENT TERRAIN FEATURE WHICH IS IN THE AREA. (COORD: YS 740 900) NO SIGNIFICANT CONTACT WAS MADE IN THIS AREA, AND RELATIVELY FEW VC INSTALLATIONS WERE DISCOVERED. BASED ALMOST EXCLUSIVELY ON ARDF RESULTS THE OPERATIONS AREA WAS EXTENDED WEST TO ENCOMPASS THAT AREA IN WHICH COMINT LOCATED THE 5TH VC 000 LIGHT INF DIV. WITH THIS EXTENSION OF THE AREA, THE REMAINDER OF THE OPERATION WAS DEVOTED TO THE PURSUIT OF THE 5TH VC DIV AND ITS SUBORDINATE UNITS. MANEUVER DURING THIS PHASE OF THE OPERATION WAS BASED PRIMARILY ON COMINT (MOSTLY ARDF). NO MAJOR ENEMY UNIT WAS ENGAGED BUT TEN BASE CAMPS WERE DISCOVERED AND DESTROYED. THE LARGE VOLUME OF MATERIAL AND FOODSTUFFS FOUND IN THE HASTILY VACATED BASE CAMPS INDICATE THAT THE ENEMY WAS HARD PUT TO AVOID CONTACT. DISCUSSION OF COMINT SUPPORT: ARDF SUPPORT WAS OUTSTANDING DURING OPERATION TOLEDO. FOLLOWING INFO IS SUBMITTED: (A) TOTAL NR FIXES W/IN AREA OF OPERATION - 105. (B) 00000NR FIXES RCVD FM ACFT - 106. (C) AV FIXES RCVD TIME OF FIX TO RECEIPT BY GND STA - 50 MIN. (D) AV TIME FROM TIME OF FIX TO RECEIPT BY S2 - 10 MIN. (E) AV TIME FROM TIME OF FIX TO TIME OF TRANSMISSION TO REAR - 75 MIN. (F) ACTION TAKEN ON ARDF RESULTS -

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LT COL CILENT

LT COL CILENT

LT COL CILENT

15 AUG - 10 RDS 173 W/HE FIRED ON 134A (YS 474 475) 13
AUG - 2 F105'S STRUCK 134A (YS 674 774) 134A FIRED IN 140 OF
U/1 (YS 557 672) ARMY FIRE 2 CS ALONG W/ 134A (YS 603 771)
F105'S STRUCK 134A (YS 681 771) JRNAL FIRE PLACED ON 134A
(YS 674 771). AT 134 - 5 RDS W/ 134A FIRED PLACED ON U/1'S
(YS 566 866) (YS 595 892) (YS 596 879).

[REDACTED]

DEPARTMENT OF THE AIR FORCE
Headquarters Seventh Air Force (PACAF)
APO San Francisco 96307

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REF: TO
ATTN OF: 0

26 September 1966

SUBJECT: Letter of Appreciation

TO: 6994th Security Squadron
APO 96307

1. It is always appreciated to receive recognition from the other services for our participation as a member of the Airground team. The high standards of performance and confidence the 6994 Sec Sq has achieved in working with the 1st Cavalry Division is the role the Air Force has been striving to attain.

2. To all the personnel of the 6994 Sec Sq I have my regards for a job done in the finest tradition of the Air Force. I look forward to the continued teamwork between the 6994 Sec Sq and the many ground force elements it supports.

s/t WILLIAM W. MONYER, Lt Colonel, USAF
Commander

1st Ind (COMDR)

1 Atch
1st Cavalry Div Hqs,
2 Sep 66, 1/2 Ind

TO: CDR

11 November 1966

Outstanding duty performance, devotion to duty and the highest standards of professionalism are becoming traditional in the 6994th. You are setting the example for the Detachments and your successors will be hard pressed to follow in your footsteps.

s/t ROBERT L. WALLANDER, Lt Col, USAF
Commander

PROJECT CORONA HARVEST
DO NOT DESTROY

0408642

No. _____

DEPARTMENT OF THE ARMY
Headquarters 1st Cavalry Division (Airmobile)
Office of the Commanding General
APO U.S. Forces 96450

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AVDAGG

2 September 1966

SUBJECT: Letter of Appreciation

TO: Commanding General
2 Field Force Vietnam

THRU: Commanding General
United States Army, Vietnam

FROM: Commander
7th Air Force

PROJECT CORONA HARVEST
DO NOT DESTROY

0408645
No. _____

1. On behalf of the officers and men of the 1st Air Cavalry Division, I wish to extend our sincere appreciation to those elements of the 7th Air Force which supported Operation PAUL REVERE II. The success of this operation was facilitated by the outstanding combat support received.

2. Tactical air support requests, both immediate and pre-planned, were answered promptly and effectively; in every instance accuracy was excellent and target coverage complete. Timely response caused major damage to the enemy while minimizing casualties.

3. The introduction of aerial resupply by para-drop to the mountainous area was supported as far as possible, despite extreme weather conditions. 6100 rounds of artillery ammunition were paraded to the area of operations and a total of 50 C-123 delivery sorties were flown.

4. Operation PAUL REVERE II again demonstrated the winning combination which results from coordinated joint effort. The officers and men of the 7th Air Force who participated in this significant operation on the Pleiku Plateau deserve the highest praise and special recognition. The FIRST TANK is grateful for their tremendous contribution to the defeat of the enemy.

s/sgt JOHN HUTTON
Major General, USA
Commanding

APPENDIX 1

HISTORY

DETACHMENT 1, 6994th SECURITY SQUADRON

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HISTORY

OF THE

DETACHMENT 1, 6994th SECURITY SQUADRON

1 July- 31 December 1966

RCS: AU-D5 (AFS-1)

This document contains information affecting the national defense of the United States within the meaning of the Espionage Laws, (Title 18, USC, Sections 793 and 794) the transmission or revelation of which, in any manner to an unauthorized person is prohibited by law.

Approved by:

SIGNED

LESTER R. MELLOTT JR.
Major, USAF
Commander

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F O R E W O R D

This historical study is a record of the activation and organization of Detachment 1, 6994th Security Squadron. The period covered is from 1 July- 31 December 1966. All references to dates are within this period unless otherwise indicated.

The majority of the information contained herein was taken from files and records maintained at the unit. Additional information was gained from personal interviews with members assigned to the unit.

Since this is the first report of the unit as an operational organization, no comparison is made with past trends; however, problems and subsequent solutions to these problems are presented.

All suggestions and comments should be directed to the unit historian who is responsible for preparing this report.

SIGNED

THOMAS J. ECHOLS, TSgt, USAF
Unit Historian

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C H R O N O L O G Y

<u>Date</u>	<u>Event</u>
1 Jul 1966	Detachment 1, 6994th Security Squadron was activated at Nha Trang AB, Vietnam.
29 Jul 1966	The operations officer arrived at Nha Trang.
13 Aug 1966	The crypto account was established.
27 Aug 1966	The operations-communications circuit to Tan Son Nhut became fully operational.
29 Aug 1966	Major Lester R. Mellott Jr., arrived to assume the position of Detachment commander.
26 Sep 1966	The NCOIC of airborne operations arrived.
17 Oct 1966	The first aircraft arrived.
21 Oct 1966	The first combat support mission was flown.
10 Nov 1966	The operations-communications circuit to Detachment 2, was approved and operational.
29 Dec 1966	A 100 pair cable was installed directly to the operations section from AFCS.

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CHAPTER I - ORGANIZATION AND MISSION

(U) [REDACTED] Detachment 1, 6994 Security Squadron was activated by General Order GA20, USAFSS, dated 7 April 66, for the purpose of conducting Airborne Radio Direction Finding (ARDF) operations against low powered enemy ground tactical transmitters in South Vietnam; thereby providing close tactical intelligence support to the Theater Commander by locating and maintaining surveillance of enemy communications. ARDF missions were limited to enemy transmitters in South Vietnam, Laos and adjacent waters.

Background

(U) [REDACTED] Although the administrative element of the detachment was established on 1 July 1966, the airborne operations section was not activated until 1 August, soon after the arrival of the operations officer. The accomplishment of the primary operational mission was deferred until 21 October 1966, because personnel requirements had not yet been met, training had to be accomplished, and the first mission aircraft did not arrive until that time. Consequently, airborne operations was somewhat slower than the other unit sections in becoming functional. To insure a smooth transition and maximum performance of the unit's mission at the earliest possible date, it was determined that the airborne operations functions had to be accomplished in three distinct phases. Phase I was the procurement and preparation of property and facilities. Phase II was the establishment of organizational structures within operations, and the beginning of the analytical support section. Since most operators were assigned with no previous flying experience in the ARDF program, training played an important part in the activation of the detachment airborne operations. Phase III consisted of the initial performance of the operational mission.

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Under this phase, the first aircraft was received; personnel were assigned to aircrew positions; tasking was levied on the unit; and the detachment began its own self-sustaining operator program.

Organization

(U) [REDACTED] Detachment 1, 6994th Security Squadron, was located at Nha Trang AB, Vietnam. The airborne operations section was collocated with the 313th Radio Research Battalion Headquarters at Camp McDermott, adjacent to Nha Trang AB. Detachment 1 was directly subordinate to the 6994th Security Squadron located at Tan Son Nhut AB, Vietnam.

Order of Progression

(U) [REDACTED] Real estate was obtained from the 313th Radio Research Battalion; the civil engineers constructed a quonset type building, and unit personnel completed the interior of the building. A close working relationship ensued with the Army. The location of the operations building proved especially favorable because the airborne operations section had to work daily with the Army. Also, the requirement for a CRITCOM communications center, as well as for security guards, was alleviated since the Army agreed to provide both. Operations-communications equipment was installed within the operations quonset hut by personnel TDY from PACSCTYRGN. This equipment was later updated and expanded in October by a GEEIA team which also installed an AN/GRC-27 UHF radio, antenna, KY-8s.

(U) [REDACTED] Initially, the operations section consisted of two major sub-sections; airborne flights and analytical support. It was recognized, however, that adjustments would be required when programmed personnel arrived. To provide for a more functional organizational structure, refinements were instituted, when deemed essential, for the most effective accomplish-

[REDACTED]

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ment of the unit's mission. For example, on 26 August 1966, the NCOIC of operation was placed directly under the operations officer. Three lateral operational support sections were established and placed under the NCOIC. This structure insured a centralized control of all aspects of the operational mission and provided a coordinated effort by all sections. These refinements proved to be manageable and efficient and were in existence throughout this period.

(U) [REDACTED] Beginning 6 August 1966, a weekly progress report was forwarded to PACSCTYRGN with information copies to 6922 Scty Wg and 6994 Scty Sq. This report reflected that the operations facility was ready for occupancy. Office equipment was moved in, the air conditioner installed, and work began almost immediately. Security operations instructions were written as well as other administrative procedures. Concurrently, operational personnel began training on the one training/transcribe position installed. The initial cadre of ARDF operator personnel returned from the training program at Tan Son Nhut during the second week of October. They were well trained and fully qualified to instruct in ARDF procedures. A ground training school was established during the fourth week of October utilizing two NCOs. The first class graduated on 4 November. These operators proved to be very competent and required a minimum of flights before they became fully combat qualified on the ARDF position.

The first mission aircraft arrived on 17 October and was checked for acceptance by the 361st Tactical Reconnaissance Squadron. On 18 October the detachment placed operators aboard to check out the AN/ARD-18 system. The equipment proved to be in operational order. Initial tasking was received on 19 October, and the unit flew its first combat support mission on 21 October. During the next two weeks, the operators who finished the detachment ground training course had an opportunity to fly combat missions and become more

[REDACTED] [REDACTED]

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familiar with the AN/ARD-18 system.

On 3 November the second aircraft arrived. The third aircraft was delivered five days later. Additional tasking was received with each succeeding aircraft and the detachment began flying combat sorties daily. From 8 - 17 November, three more aircraft were received and they were immediately scheduled to fly sorties in support of the unit's mission.

By 17 November, a month after the arrival of the first aircraft, 30 operators out of 59 assigned had been fully trained. With the accelerated training program in effect by this time, the remaining operators finished ground training and began operating a position after an average of five training flights. By 31 December, 40 of the 59 operators assigned were fully trained and routinely flying combat missions.

AIRCRAFT ARRIVALS

<u>ACFT NUMBER</u>	<u>DATE ARRIVED</u>
44-77016	17 Oct 1966
42-23520	3 Nov 1966
42-93161	9 Nov 1966
43-49100	10 Nov 1966
45-1044	17 Nov 1966
43-15668	21 Nov 1966
43-48886	3 Dec 1966
43-49201	3 Dec 1966
43-48480	3 Dec 1966

NOTE: All aircraft with only "X" position (AN/ARD-18)

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MAJOR AIRCRAFT PROBLEMS

<u>Aircraft Number</u>	<u>Date</u>	<u>Equipment Malfunction</u>
44-77016	22 Oct 66	Wiring defective
44-77016	6 Nov 66	Compass Amplifier Malfunction
42-23520	10 Nov 66	Generator Malfunction
43-49100	11 Nov 66	Amplifier Malfunction
42-23520	15 Nov 66	C-12 Compass Malfunction
43-15668	23 Nov 66	C-12 Compass Malfunction
43-49100	3 Dec 66	C-12 Compass Malfunction
43-15668	12 Dec 66	Doppler and C-12 Malfunction
42-23520	27 Dec 66	Amplifier Malfunction
43-15668	27 Dec 66	C-12 Compass and AN/ARD-18 Component Malfunction
43-48886	27 Dec 66	Gyroscope and Doppler Malfunction
45-1044	29 Dec 66	AN/ARD-18 Malfunction
44-77016	30 Dec 66	C-12 Compass and Amplifier Malfunction

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CHAPTER II - TASKING AND COLLECTION

(U) [REDACTED] The initial nine AN/ARD-18 equipped EC-47 aircraft for Nha Trang, arrived without the "Y" Console installed. The "Y" Console had the DF acquisition position. So the unit's primary mission consisted of ARDF and obtaining fixes on enemy targets utilizing only the "X" Console. When it became evident that the North Vietnamese Army was infiltrating into South Vietnam at an increasing rate, the number of targets increased correspondingly. The assigned aircraft were therefore targeted against Viet Cong and North Vietnamese infiltration route communications complexes located in South Vietnam and Laos.

SIGINT Collection

(U) [REDACTED] The collection, analysis, and resultant exploitation of enemy communications intelligence was not performed to any extensive degree by the detachment since it was an Army Security Agency responsibility. The primary mission was to locate and fix targets and report them to ASA, Direct Support Units (DSU) while airborne. Analysis of intercepted traffic was performed by ASA units already in-country. It was from these ASA units that the data base used for identification and tasking was acquired.

(U) [REDACTED] The following recapitulation of missions/fixes reflects the degree of success of the PHYLLIS ANN ARDF mission at this station. During the first full mission month (November), more than 200 fixes were obtained on enemy targets. A break down of these missions follows, and for the purpose of this history, the fixes for the month of December are also included. It should be noted, however, that poor weather over Nha Trang and the target areas, seriously hampered the success of the mission during the month of December. Many missions were aborted before take-off or soon after they were in the vicinity of the target area. In spite of this problem, those missions that were flown and

[REDACTED]

[REDACTED]

completed, showed a continuing improvement in mission accomplishment.

MISSIONS AND FIXES

<u>INCLUSIVE DATES OF MISSION WEEKS:</u>	<u>MISSIONS</u>	<u>HOURS</u>	<u>FIXES</u>
Oct 21 - 28	6	40:05	17
Oct 29 - Nov 4	5	31:50	12
Nov 5 - 11	11	61:47	24
Nov 12 - 18	17	107:06	50
Nov 19 - 25	28	163:54	62
Nov 26 - Dec 2	32	164:06	94
Dec 3 - 9	20	120:56	60
Dec 10 - 16	50	283:26	138
Dec 17 - 23	47	292:08	201
Dec 24 - 31	49	264:46	67

SIGINT Processing and Reporting

(U) [REDACTED] Detachment 1, 6994 Security Squadron was not tasked with a processing mission during this period; however, after the completion of each mission an ARDF Recovery Report is forwarded to the Airborne Radio Direction Finding Coordinating Center (ACC) and supported field commanders via FLASH precedence.

[REDACTED]

[REDACTED]

APPENDIX 2

HISTORY

DETACHMENT 2, 6994th SECURITY SQUADRON

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HISTORY

OF THE

DETACHMENT 2, 6994th SECURITY SQUADRON

1 July- 31 December 1966

RCS: AU-D5 (AFS-1)

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No

Approved by:

SIGNED

ERNEST L. SHORT JR.
Capt, USAF
Commander

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F O R E W O R D

This historical summary of the background and operations of Detachment 2, 6994th Security Squadron, has been written to include unit activities from 1 September- 31 December 1966.

All information was taken from files, PADS, and correspondence maintained within the unit. Since the detachment did not receive its first aircraft until 8 December, this operational study is quite limited.

All suggestions and comments should be directed to the Office of Information.

SIGNED

A. C CHAMBLEE, SMSgt, USAF
Unit Historian

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II TASKING AND COLLECTION	
Flight Scheduling	3
Analysis	3



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C H R O N O L O G Y

<u>Date</u>	<u>Event</u>
1 Sep 1966	Detachment 2, 6994th Security Squadron was activated at Pleiku AB, Vietnam.
1 Sep 1966	Captain Ernest L. Short Jr. arrived to assume the position of detachment commander.
22 Sep 1966	The operations officer arrived at the detachment.
29 Oct 1966	The secure communications circuit to Tan Son Nhut AB, Vietnam, was activated.
10 Nov 1966	The secure communications circuit to Nha Trang was activated.
8 Dec 1966	The first aircraft arrived at Pleiku AB, Vietnam.

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CHAPTER I - MISSION AND ORGANIZATION

Mission

(U) [REDACTED] Detachment 2, 6994th Security Squadron, was activated at Pleiku AB, Vietnam, on 1 September 1966. The detachment had originally been programmed to be activated at Phu Bai Airfield, Vietnam, 1 October 1966. The detachment's activation was 30 days earlier than the originally programmed date, and 20 days earlier than a revised date of 20 September. The detachment was activated for the purpose of conducting Airborne Radio Direction Finding (ARDF) operations against low-powered enemy ground tactical transmitters in South Vietnam, Laos, and adjacent waters.

Organization

(U) [REDACTED] The detachment was directly subordinate the 6994th Security Squadron located at Tan Son Nhut AB, Vietnam. The detachment provided the rear-end crews for operational missions; Detachment 1, 361st Reconnaissance Squadron, provided the front-end crews.

(U) [REDACTED] The first mission was flown on 12 December. Through 31 December, the detachment flew 54 sorties, accumulated 322.4 hours of flying time, and obtained 111 fixes and seven cuts on enemy targets.

(U) [REDACTED] Airborne operations consisted of three operational flights, and flight scheduling. Each flight had a technical sergeant as flight leader, and was manned entirely by RA292X1 personnel. These personnel operated two positions on each EC47 aircraft. These positions were designated as "X" and "Y" positions. The "X" position was used as the Airborne Radio Direction Finder position. The "Y" position was used to back up the "X" position by copying traffic on targets intercepted by the "X" position.

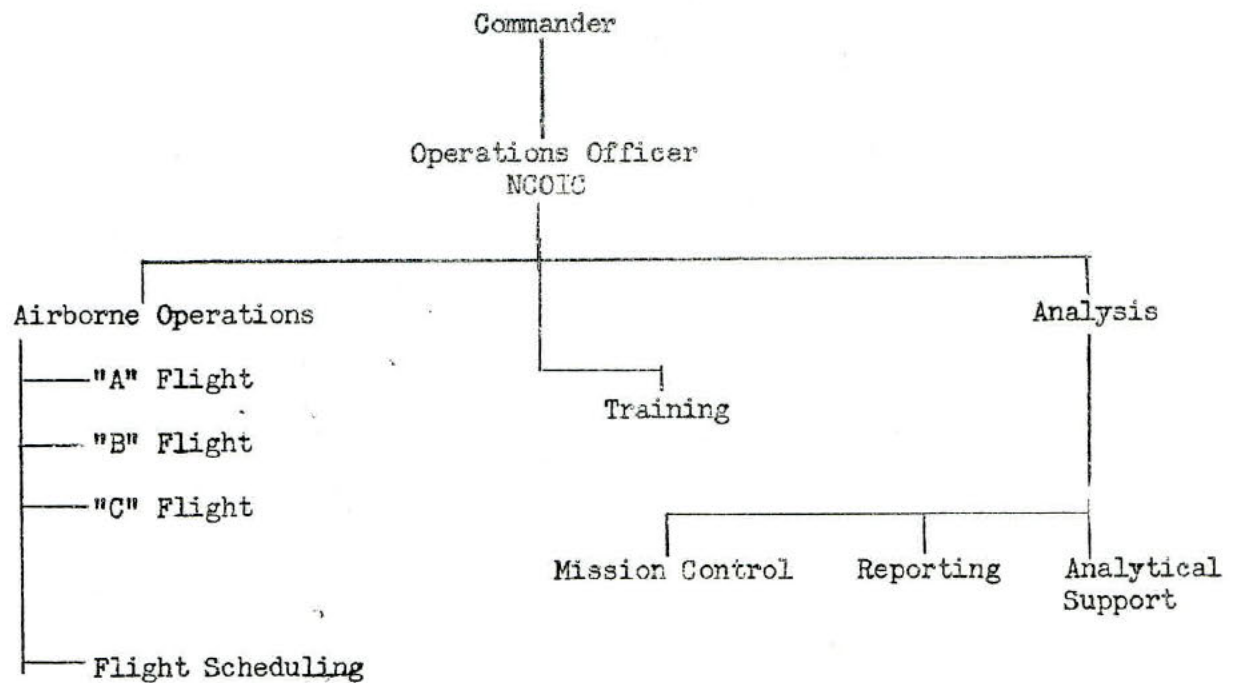
[REDACTED] [REDACTED]

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In addition, the "Y" was used as an air-to-ground position to pass fix coordinates to ground stations, and receive tip-offs from ground stations on enemy target transmitters.

Organizational Chart



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II TASKING AND COLLECTION

Flight Scheduling

(U) [REDACTED] Flight scheduling had a technical sergeant and a staff sergeant assigned. Both were RA29271 personnel. And although neither was assigned to one of the three operational flights, both were required to fly missions regularly. Their duties consisted of: scheduling crews for specific missions; keeping records of individual flying time and missions; coordinating with Detachment 1, 361st Reconnaissance Squadron, on aircraft and crew scheduling; and initiating action on newly assigned personnel, and placing them on aeronautical orders. They also maintained a suspense file to insure timely publication of orders, and monitored and initiated action for award of individual Air Crew Member Badges and decorations.

Analysis

(U) Analytical personnel were among the first to arrive at the detachment. During September and October, they did diverse and non-job related chores along with other personnel assigned to the detachment. For their outstanding performance on these projects, six of them received the Air Force Commendation Medal.

(U) [REDACTED] On 31 October, with 16 analysts assigned to the detachment, these personnel began working a shift schedule with the 330th RRC which was located about seven miles from Pleiku Air Base. This action was intended to familiarize the analysts with Viet Cong communications procedures. It was, in fact, a training ground for future analytical work.

(U) [REDACTED] In early November orders were received assigning five analysts to the 6924th Security Squadron at DaNang. Even before beginning operations, the section had lost nearly one-third of its personnel. Hasty adjustments

[REDACTED]

[REDACTED]

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[REDACTED]

were made of the 11 men remaining. Two men began working in operations preparing maps and instructions, while the other analysts continued to work with the 330th RRC.

(U) [REDACTED] During November and December several analysts were sent TDY to the 6924th and 6994th Security Squadrons. Much valuable training was gained from these TDYs. Important information concerning the analytical role in the Phyllis Ann program was gained. While not yet proficient, these analysts had become involved with final fix reports, Daily Operational Management Reports, Position Status Reports, TEXTA schedules, and mission briefings and de-briefings. By 10 December, all the analysts had returned to Fleiku.

The first message issued by the section was transmitted on 9 December. Through 31 December, the section issued a total of 149 messages. This did not include the countless number of OPSCOMM and TELECON items.

(U) [REDACTED] As of 31 December the analysis section was self supporting and operating smoothly. The major problem continued to be a lack of knowledge concerning Viet Cong and NVA communications structure and workings. Plans were made to obtain the services of an analyst or radio operator from the 330th RRC to conduct a brief training course for detachment personnel.

[REDACTED]

APPENDIX 3

HISTORICAL SUMMARY

AIRBORNE RADIO DIRECTION FINDING COORDINATION CENTER

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HISTORY
OF THE
AIRBORNE RADIO DIRECTION FINDING
COORDINATION CENTER
(ACC)

1 July- 31 December 1966

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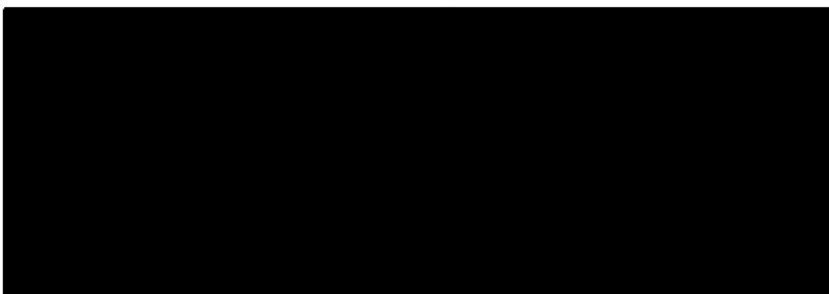
Prepared by:

SIGNED

JAMES R. TAYLOR
SSgt, USAF

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C H R O N O L O G Y

<u>Date</u>	<u>Event</u>
1 Jul 1966	The Airborne Radio Direction Coordination Center began its initial operations.
26 Jul 1966	The first Air Force PCS personnel arrived.
15 Jul 1966	The ACC organizational structure began to evolve with the introduction of a tasking/evaluation section, and the implementation of a 24-hour reporting operation.
19 Sep 1966	The commanders of the 6994th Security Squadron and the 509th Radio Research Group were unable to agree on scope and command details of Joint Operating Instruction 1-1. The document was returned for revision.
29 Sep 1966	General Brown praised the concept of ARDF, and the personnel participating in the program.
16 Oct 1966	NSA approved a new HESTIA pad designed for operational requirements by ACC.
5 Nov 1966	USAFSS curtails three 202X0 personnel; hence, a revised ACC manning requirement was submitted.
31 Dec 1966	Explosive monthly fix total concluded a year with ACC managing and directing a double ARDF effort. Despite personnel and management problems, ACC proved the concept of a jointly manned management center.

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HISTORICAL SUMMARY

(U) [REDACTED] On 21 June 1966, a message from the commander of the 509th Radio Research Group to the commander, Army Security Agency, Pacific, expressed agreement with Seventh Air Force on the management of a proposed joint ARDF center. Both the Army and the Air Force had agreed that to properly accomplish their missions, a joint manned coordination center was needed to avoid unnecessary duplication of efforts. This would allow maximum use of the ARDF resources in Vietnam.

(U) [REDACTED] Military Assistance Command (MACV-J2), which then controlled the tasking of ARDF resources, was reluctant to relinquish control of this task to either service. After repeated consultation, a partial solution to the problem emerged. MACV-J2 agreed to allow the two services to retain operational control of their aircraft; accomplishing the tasks assigned by the joint center as approved by MACV-J2.

(U) [REDACTED] On 29 July 1966, General W. C. Westmoreland, commander, MACV, released MACV Directive 381-23 which spelled out how the ARDF effort would function. This was the only directive written by a higher echelon outlining limited responsibilities in the ARDF program in Vietnam. Included in the directive was a provision for the establishment of a Joint Management Coordination Center.

(U) [REDACTED] The Airborne Radio Direction Finding Coordination Center was established on 1 July 1966, and began initial operations in facilities provided by the Army's 509th Radio Research Group at Tan Son Nhut AB, Vietnam. The mission of the ACC was to translate tactical field force commander's requirements into cryptologic tasking, and to monitor, evaluate, edit, and report the mission results of all ARDF resources in the Republic of Vietnam.

[REDACTED] [REDACTED]

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[REDACTED]

(U) [REDACTED] Due primarily to the rapid acceleration of the ARDF effort, the ACC became aware of "grey areas" in both mission and organizational functions on 1 September. These deficiencies were revealed through an organizational study conducted during August, and were attributed to the lack of formal tasking establishing ACC's duties and responsibilities and the outlining of command channels. Both services were agreed on the focal importance of the ACC, but little else had been done towards the official recognition of this function.

(U) [REDACTED] ACC had been an operational entity for two months before the commanders met on 19 September. Their goal was the publication of a Joint Operating Instructions which would determine the official duties, responsibilities, and control functions of the ACC. Unfortunately, agreements over scope and command details prohibited the publication of the JOI from this meeting.

(U) [REDACTED] It was on 1 December that the ACC became the official executioner of the functions it had controlled for some six months. On this date, JOI 1-1 was signed and published.

[REDACTED]

[REDACTED]

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(3) Disseminate ARDF results and technical feed-back to subordinate radio research units.

(4) Establish and maintain close liaison with each other in the planning and employment of ARDF resources in support of COMUSMACV approved requirements.

* * * *

FOR THE COMMANDER:

W. B. ROSSON
Major General, USA
Chief of Staff

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and 1-1

a. Signal Technical Data necessary to support both Army and Air
Force ARDF Operations.

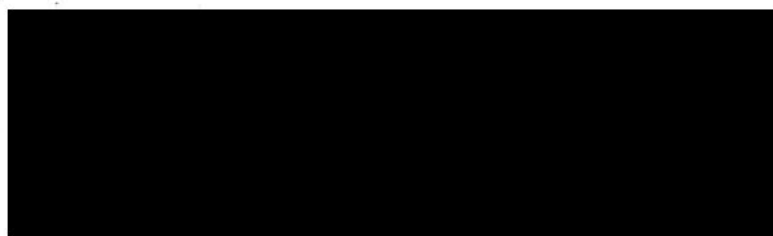
a. 509th RAGP ARDF weekly sortie availability data.

b. In support of the Army/Air Force effort, the 695th Stryker Sq will
provide personnel for the ARDF Control element. 7th Air Force WACB
will provide the ARDF weekly sortie availability data.

ATTN: 1A & 2A (ARDF) (ARDF) (ARDF)

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b. JARPT TRANSLATES REQUIREMENTS INTO SORTIES BY NUMBER, TYPE AND TIME CONSIDERING RESOURCE AVAILABILITY, COMBAT, PREVIOUS RESULTS, PRIORITIES, AND THE AIRCRAFT BEST SUITED TO THE TASK.

c. JARPT TASKING DOCUMENT IS SUBMITTED TO JTF-701 FOR APPROVAL. UPON APPROVAL, JARPT MEMORANDUM IS DISTRIBUTED AS A TASKING DOCUMENT.

d. SERVICES EMPLOYED ARE TO INCLUDE PACKAGING AIRCRAFT.

e. INITIAL REPORT TO BE ACCOMPANIED AT THE JOINT LEVEL.

REQUIREMENTS ARE SUBMITTED INTO THE COMINT PRODUCT AT THE PROCT LEVEL.

f. RECORDS OF THE COMINT PRODUCT INTEREST IN THIS PROGRAM ARE TO BE KEPT UNDER CLOSE SUPERVISION OF THE COMINT PRODUCT. THE COMINT PRODUCT IS TO BE KEPT UNDER CLOSE SUPERVISION OF THE COMINT PRODUCT. THE COMINT PRODUCT IS TO BE KEPT UNDER CLOSE SUPERVISION OF THE COMINT PRODUCT.

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RESPONSIBILITY TO INSURE ALL REPORTS GO TO THE PROPER CONSUMERS
VIA THE CORRECT REPORTING VEHICLE ON A TIMELY BASIS. THIS IS A 24
HOUR PER DAY, SEVEN DAYS A WEEK FUNCTION.

3. THE MISSION CONTROL SECTION, CONSISTING OF FOUR ARMY AND FOUR
AIR FORCE ANALYSTS IS RESPONSIBLE FOR PERFORMING EVALUATION OF EACH
MISSION, TARGET STUDIES AND CRYPTOLOGIC TASKING OF THE AVIATION
COMPANIES AND AIR FORCE ABN DETS. RECOMMENDED TIME OVER TARGETS IS
CONTAINED IN THE TASKING BASED ON AN EVALUATION BY THE MC SECTION OF
THE PRIORITY TARGETS TRANSMISSION SCHEDULES.

4. THERE WILL BE AN ACC SUPPORT SECTION AT EACH OF THE DATA BASES
TO PROVIDE A TECHNICAL SUMMARY OF THE ACTIVITY OF THE PRIORITY TARGETS,
BEST TIMES OVER TARGET FOR THE PRIORITY TARGETS, IDENTIFICATION OF
UNIDENTIFIED FIXES AND TO FORWARD CHANGES TO TEXTA RESULTING FROM
ANALYSIS BY THE DATA BASE. CURRENTLY, ONE SUPPORT SECTION IS IN PLACE
AT THE 175TH RRC COMMUNICATING VIA OPS COMM DIRECTLY WITH THE ACC.
ACC SUPPORT SECTIONS WILL HAVE OPS COMM COMMUNICATIONS WITH THE ACC
VIA THE AIR FORCE CIRCUITS. THESE SECTIONS SHOULD BE OPERATIONAL BY
THE END OF OCT 66.

5. SOP'S AND HARD COPY PROCEDURAL INSTRUCTIONS ARE IN THE DRAFT
STAGES AND SHOULD BE COMPLETED AND DISSEMINATED BY DECEMBER 66. THE
INITIAL INSTRUCTIONS WILL BE REVISED AS REQUIRED AS MORE ARDF ACFT
ARRIVE.

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OPR-1/1st Lt Fink/4712

(U) ACC Manpower Requirements

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OPR (Maj Fisher)

1.(b) [REDACTED] The ACC has a total manpower requirement for 17 enlisted personnel and one officer. These people will be organized into four sub-elements: Reporting, tasking-evaluation, ^{No} technical support, and management-administration.

2.(u) [REDACTED] Reporting. This section will operate 24 hours per day, and should have a total Air Force strength of two 20270 E-6, two 20250 E-5, four 20250 E-4 for a total of eight people. A like number of personnel should be provided by ASA giving a total reporting section strength of 16 persons, divided into four tricks of four men each. These tricks will be responsible for the following:

- a. Preparing the ARDF Daily Fix Report.
- b. Preparing the ARDF Daily Status Report.
- c. Preparing the Consolidated ARDF Report.
- d. Maintaining the Fix log.
- e. Maintaining the Spar Log.
- f. Maintaining the Fix Ident Log.
- g. Reporting via NY-3 to SSO MACV In Spar format all fixes on a timely basis.
- h. Operating Ops Comm terminals to 697th Scty Co and 175th RR Co.
- i. Filing and distributing all incoming ARDF messages.
- j. Answering routine operational queries.
- k. Maintaining the missions tasked board.
- l. Maintaining the Fix Status Board.
- m. Plotting each Fix received and determining geographic coordinates.
- n. Maintain Aircraft Status Log.
- o. Validate accuracy of all incoming fixes and resolve discrepancies.

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p. Comparing missions flown with missions tasked to insure satisfaction of MACV requirements.

q. Maintaining and forward as required, complete status information on air/ground reporting.

r. Perform any other functions required to ensure smooth functioning of the ARDF program.

3. (U) [REDACTED] Tasking-Evaluation. This section will normally operate on a straight day schedule except when tasking changes are required. It should have a total strength of five people, one 20250 E-5, three 20250 E-4, and one 70250 E-4. This section will be responsible for the following:

a. Translating MACV general tasking into specific AF ARDF cryptologic tasking specifying date and time over target. In addition, this section will assign priority target RAD based on the consumer REI. The time over target will be determined based on the transmission schedules of the priority targets as reflected in ground intercept.

b. Making all AF tasking changes.

c. Notifying TACC of all AF tasking in a sanitized format.

d. Providing a weekly technical evaluation of all AF missions flown, comparing mission results with tasked goals and ground intercept.

e. Providing a daily narrative summary of all AF mission results.

f. Providing other target studies and result evaluations as required.

g. Limited analysis of unidentified fixes by comparing the fixes with the ground intercept while performing the technical evaluation.

h. Maintaining a record of transmission times of all priority targets based on ground intercept.

4. (U) [REDACTED] Technical Support. The Technical Support Section will operate 16 hours per day from 0800-2400 hours daily. It should have a total strength of two AF personnel and 2 ASA personnel. The AF personnel should be one 20250 E-5 and one 20250 E-4. The technical support element will work at each data base, 175th RR Co and 330 RR Co. The above manning will be for the 175th RR Co only and the manning for the 330th RR Co to be provided from Det 2, 6994th Scty Sq. This section will be responsible for the following:

a. Preparing and forwarding textual changes on all RADS assigned to the data base.

b. Forwarding any pertinent operator comments on the priority RADS.

c. Forwarding daily a priority RAD list to [REDACTED]

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D. Extracting any technical data from the data base required by an ARDF operational unit.

e. Identifying fixes.

f. Maintain unidentified fix log and send ident change messages as recoveries are made by the data base.

g. Providing best time over target for tasking of ARDF missions.

5. (v) [REDACTED] Management and Administration. This section will work normal duty hours and should be one 8034 Captain, one 20290 Mgt and one 70250 SSgt. for a total strength of three. This section will be responsible for the following:

a. General office management and policy.

b. ARDF reporting procedures.

c. Supervision of all assigned personnel

d. Morale and discipline of assigned personnel

SIGNED

DANIEL F. FINK, 1st Lt., USAF
Asst OIC AF/ACC

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report sent directly to I FFV, II FFV and III MAF will be identical with reports submitted to cryptologic units except that tech data will be excluded.

4. Resume format and explanation follows:

- a. Location - ACFT home base
- b. SOB - Sorties Flown
- c. AC - Type of ACFT
- d. HRS - Total time flown
- e. Area Flown - Specific provinces flown to include opn sortie is in support of number in parens equates to area designated on J2 MACV weekly tasking directive (NOTAL). Missions aborted and reasons why.

- f. Fixes - Total fixes obtained
- g. Passed - Total fixes passed air to ground and reasons fixes were not passed air to ground, using following code:

- (1) M/P - Marginal plot in the ACFT
- (2) N/C - No radio contact
- (3) N/D - No DSU in the area
- (4) O/A - Out of operational area (fixes obtained enroute no DSU to pass to)

5. Above effective 27 July. Addres coordinate with supported commands and explain report.

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QUOTE SUBJ: SPECIAL DEVELOPMENT MISSION.

1. WHILE FLYING THE SPECIAL DEVELOPMENT MISSION IT WILL BE NECESSARY FOR THE AIRCRAFT TO TIP OFF THE GROUND TARGET SITE. FOR THIS MISSION DI AN (36) 337 RRC AND OU CHI (64) 372 RRC WILL BE PRIMARY AND ALTERNATE DSU RESPECTIVELY.

WHEN A TARGET IS PICKED UP IN THE ACFT, THE GROUND DSU WILL IMMEDIATELY FLASHED GIVING CALLSIGNS AND FREQUENCY OF THE TARGET. THE PROCEDURES FOR ENCRYPTING THIS INFORMATION ARE THE SAME AS EMPLOYED IN A GROUND AIR TIP-OFF. THE GROUND WILL ACKNOWLEDGE THIS TIP-OFF.

2. A MINIMUM OF ONE COMPLETE MESSAGE TO INCLUDE CALLUP, PREAMBLE, TEXT AND POSTABLE SHOULD BE COPIED ON EACH TARGET HEARD EVEN IF GROUND ACKNOWLEDGES THE TIP-OFF. IF GROUND ACKNOWLEDGES THE TIP-OFF, COPY ON THE TARGET MAY BE DROPPED AFTER ONE COMPLETE MESSAGE IS OBTAINED.

3. PROCEDURES ARE BEING WORKED ON TO PROVIDE A PRE-MISSION BRIEFING AND POST-MISSION DEBRIEFING OF THE MISSIONS OF AT WHITEBIRCH. WHITEBIRCH WILL ALSO PROVIDE THEIR INFORMATION BASED ON PREVIOUS DAYS FLIGHTS. WHEN DETAILS ARE WORKED OUT, WILL ADVISE. UNQUOTE

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