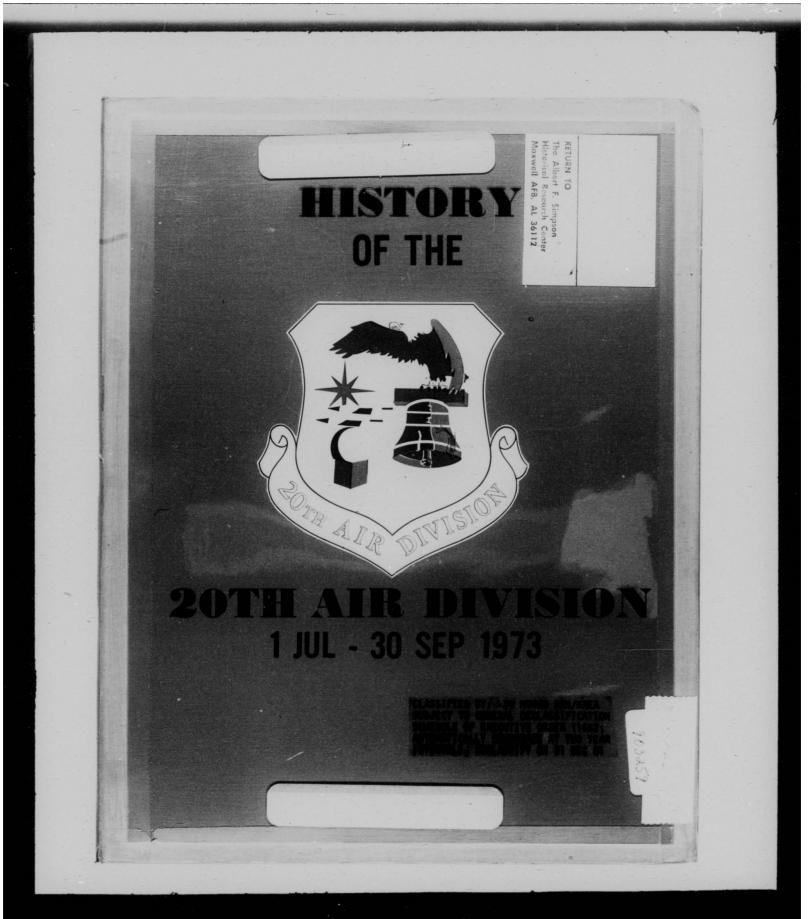
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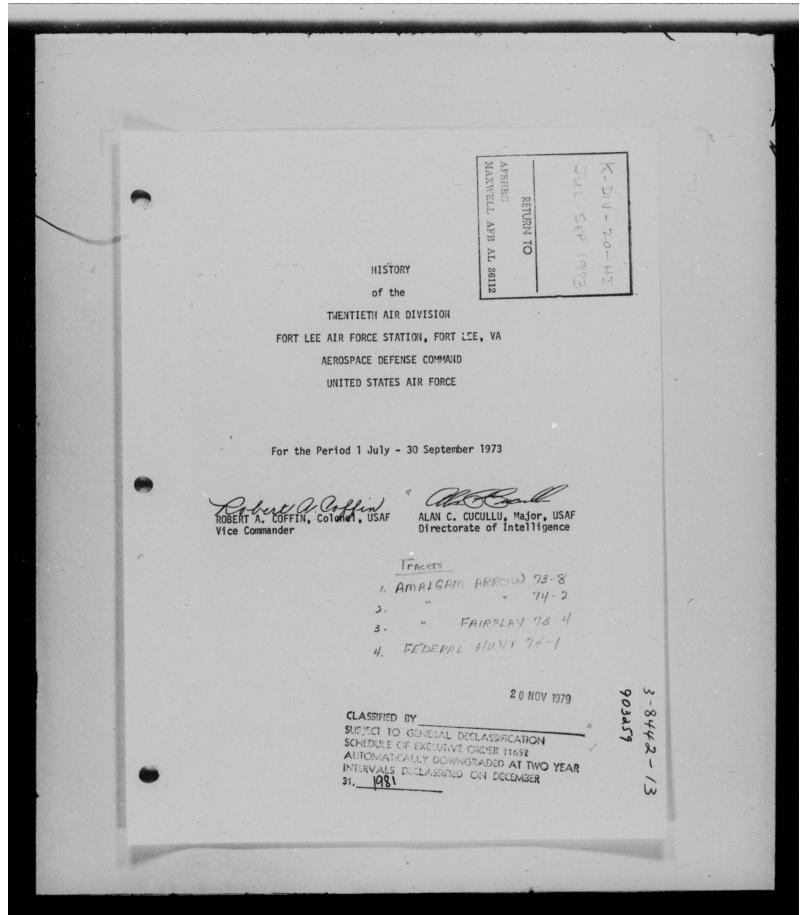
This microfilm was created from the record copy of unit histories and related historical material of the United States Air Force stored in the Historical Reference Branch of the Albert F. Simpson Historical Research for these records in accordance with AFR 210-3 and AFM 12-50. This microfilm was created in accordance with the provisions of AFR 12-40 as AU Project AU-1-71. The microfilming was completed under the supervision of the Technical Systems Branch of the Albert F. Simpson Historical Research Center.

CHARLES C. BIASI, Lt Col, USAF

Technical Services Division Albert F. Simpson Historical Research Center

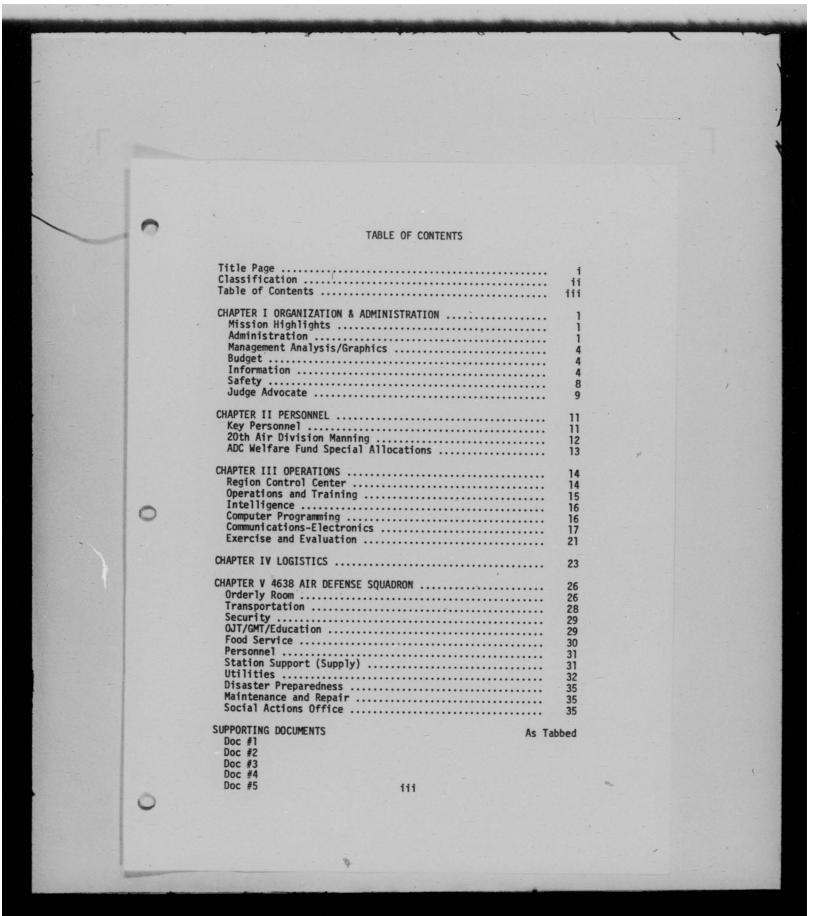


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# CHAPTER I ORGANIZATION AND ADMINISTRATION

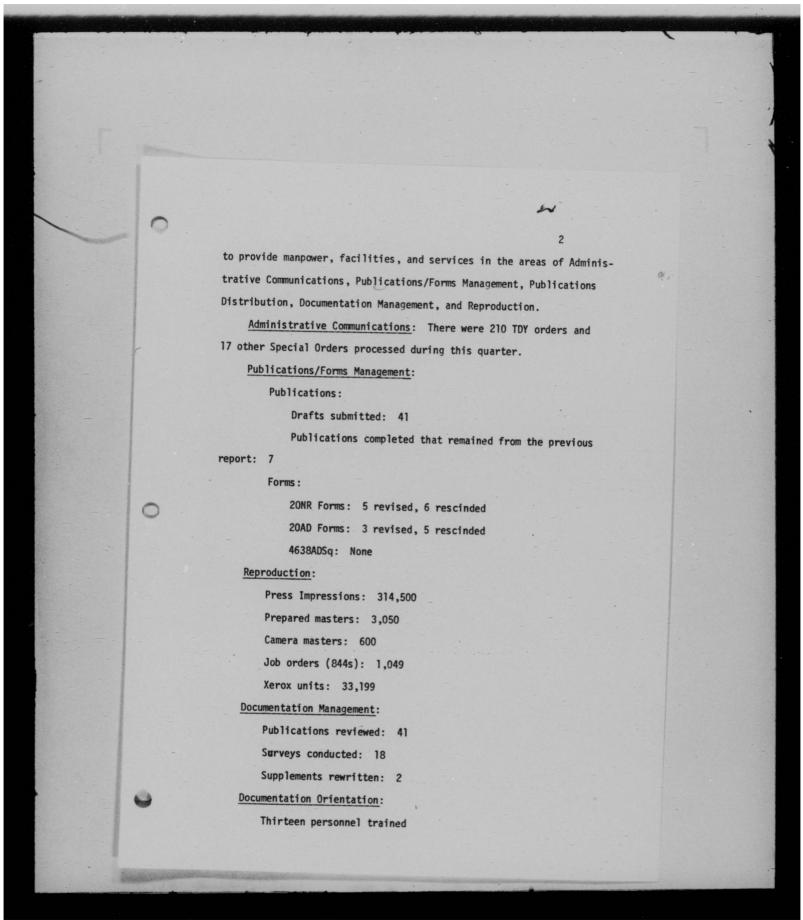
### MISSION HIGHLIGHTS

- (U) The Air Force Outstanding Unit Award was awarded to three Division units—the 671 Radar Squadron, Key West NAS, FL; the 678 Air Defense Group, Tyndall AFB, FL; and the 679 Radar Squadron, Jacksonville NAS, FL.
- (U) A new radar was installed at two 20th units, the 792 Radar Squadron at North Charleston AFS, SC, and the 632 Radar Squadron, Roanoke Rapids AFS, NC, which will improve detection and tracking capabilities.
- (U) A social actions office was opened at Fort Lee AFS to serve the human relations needs of Division personnel. It is the first office at Division level and will serve as a pilot program for ADC.

  (U) General Seth J. McKee, NORAD commander who retired October 1, paid a farewell visit to the Division headquarters. Officers and area civic leaders paid tribute to General and Mrs. McKee during a dinner party given in their honor.

### (U) ADMINISTRATION

Brief Statement of Mission Performance: To provide and manage an efficient administrative system; to insure compliance with Air Force administrative procedures established by higher headquarters;



On 17 September 1973, the Documentation Orientation film FRV 1228a was shown. The 3 films which comprise the FRV 1228 series have been ordered and will be shown in early November of this year. Everyone whose duties include the maintenance and disposition of documentation will be invited to view this series of films at that time.

During the period 27 through 31 August 1973, the Station Documentation Manager attended a Documentation Orientation Course to observe a new method of presenting the material contained in AFP 12-61. The DM was favorably impressed with the new method, and plans to introduce it soon to personnel of this station.

Other: Extensive personnel rotations continue throughout the Division with a significant number of vacancies remaining unfilled. Transition of four positions from military to civilian has been completed and those positions have been filled. SSgt Perkins has retired; AlC Baker will depart in November for Palace Chase; Sgt Miller has separated. The Division has been very fortunate in having well qualified and motivated civilians join our section. In addition, a new secretary, Ms. Hughes, has been assigned to fill the vacancy left by Miss Hailey. Although manning is reduced and funding more austere, the Division has received increased requests for guidance and TDY assistance from geographically separated units (GSUs). With the upgrading of newly assigned personnel continuing at an aggressive pace, the Division will continue to provide the best service possible within its resources to the Air Station, the GSUs, and newly acquired units.

### (U) MANAGEMENT ANALYSIS/GRAPHICS

A directed special study of the PACE Program was initiated during this period and will be completed in the next period.

One hundred forty-three work order requests were completed consisting of 1860 slides, 147 charts and signs and 52 special projects.

### (U) BUDGET

The first quarter operating budget consisted of the following:

Military Personnel Expenses \$1,511,096 Civilian Personnel Expenses 145,672 Other Operation and Maintenance Expenses 18,635 Dining Hall Subsistence Expenses

178,224

### (U) INFORMATION

The 20th Air Division Directorate of Information continued to perform its mission of providing information on Division activities to the command's internal and external publics during the reporting period.

One hundred five public news releases were produced by the Division Information staff and additional duty information representatives at Division units. Hometown News Releases forwarded for national distribution totaled 192.

Thirteen tours of the Region Control Center were conducted for 298 people ranging from students to civic leaders. Another 27 tours were conducted for 487 people at Division units.

The long-vacant secretarial position was filled in July, but as the end of the quarter approached, it became apparent that the alleviation of administrative problems of the directorate was to be short-lived. On 21 September, the secretary-stenographer left for a higher paying government service (GS) position. The downgrading of the directorate position from a GS-4 to a GS-3 in January 1973 has created serious problems in recruiting and retaining a well qualified secretary which is so necessary for the effective conduct of the Division Information program.

News media representatives from 13 newspapers and radio-TV stations within the Division's area of responsibility toured the Cheyenne Mountain air defense complex and the Air Force Academy during a Division-sponsored press trip to Colorado Springs July 15-17. The trip was well received as evidenced by newspaper and radio-TV coverage that was generated.

A new brochure outlining the Division mission and how it is carried out was published by this directorate during the reporting period. It is being distributed to newcomers, tour groups, newsmen and others requesting information about the Division.

Plans for expansion of the Division public speaking program were formulated during the reporting period. Work has begun on an open end mission briefing for use by Division units who would insert material on their local activities at a designated point in the briefing. The addition of current, attractive visual aids to presentations made by

unit personnel in the local community should add impact to the message and improve the effectiveness. A speaker's kit including various fact sheets on the Air Force and the command is also being prepared to assist speakers in answering questions which might arise during a speaking engagement.

The Division command section actively supported the public speaking program. The Commander addressed the Roanoke Rapids, N.C., Rotary Club August 6 on the air defense mission and the difficulty of arriving at accurate cost estimates for new weapons systems. The Vice Commander briefed the Wilmington, N.C., Kiwanis Club August 15 on the command mission and the Division's role in carrying out that mission. The command section also directed colonels assigned to the headquarters to make themselves available for speaking engagements.

Staff assistance visits were conducted at the 630 Radar Squadron, Houston, TX and the 634 Radar Squadron, Lake Charles, LA., July 9-13; at the 632 Radar Squadron, Roanoke Rapids, N.C., August 6-7; and at the 701 Air Defense Group, Fort Fisher, N.C.,; Detachment 1, 48 Fighter Interceptor Squadron, Wilmington, N.C.,; and the 792 Radar Squadron, North Charleston, S.C. August 15-19. No major discrepancies were noted during the visits.

Major news events during the period include:

The Air Force Outstanding Unit Award was awarded to three Division units--the 671 Radar Squadron, Key West NAS, FL; the 678 Air Defense Group, Tyndall AFB, FL; and the 679 Radar Squadron, Jacksonville NAS, FL.

A new radar was installed at two 20th units, the 792 Radar Squadron at North Charleston AFS, S.C., and the 632 Radar Squadron, Roanoke Rapids, N.C., which will improve detection and tracking capabilities.

Lt Col Windrath assumed command of the Division's 48th Fighter Interceptor Squadron at Langley AFB, VA.

A social actions office was opened at Fort Lee AFS to serve the human relations needs of Division personnel. It is the first office at Division level and will serve as a pilot program for ADC.

General Seth J. McKee, NORAD Commander who retired October 1, paid a farewell visit to the Division headquarters. Officers and area civic leaders paid tribute to General and Mrs. McKee during a dinner party given in their honor.

The Interceptor Weapons School at Fort Lee AFS has the distinction of having four officers holding the title of Master of Air Defense. There are only 30 men on active duty with that title which represents the ultimate in air defense skill.

The 4638 Air Defense Squadron won the Division Fast Pitch
Softball Tournament and placed second in the Fort Lee Fast Pitch
Tournament. The squadron slow pitch team won the Fort Lee Slow Pitch
Tournament.

The Division's 644 Radar Squadron won the Homestead AFB, FL Fast Pitch Softball Tournament.

Lt Col John Marcotte, who is assigned to Division headquarters, placed first in the senior division of the ADC Golf Tournament.

### (U) SAFETY

Accidents:

Flight: On 30 September 1973 an F-102A assigned to the 125th Fighter Group (ANG) experienced a minor aircraft accident during landing at New Orleans NAS, LA.

Missile/Nuclear: None

Ground: There were 12 reportable accidents throughout the Division during this period. There were three government motor vehicle accidents, three private motor vehicle accidents, two industrial, three domestic accidents, and one recreational injury.

Inspection/Supervisory Visits: SE conducted safety supervisory visits to the following units: 630 Radar Sq, 9-13 Jul 73; 634 Radar Sq, 11-12 Jul 73; 702 Radar Sq, 5 Sep 73; 679 Radar Sq, 6 Sep 73; 645 Radar Sq, 11-12 Sep 73; 125FG, 5-10 Sep 73; 112FG, 27-30 Sep 73.

Personnel:

Capt John M. Bell completed course 30ZR4625X, AF Weapons Accident Prevention Management, 1-23 Aug 73, and course 30AR4611, Aerospace Munitions Staff Officer, 12 Sep - 2 Oct 73. Both courses were at Lowry AFB, Colorado.

SSgt Dennis C. Tidwell, 20AD Ground Safety NCO, arrived on 25 Jul 73 from Fuchu AB, Japan.

TSgt Marion R. Curling, 20AD Traffic Safety NCO, arrived on 17 Sep 73 from Clark AB, R.P.I.

TSgt Jesse O. Smith, 20AD Traffic Safety NCO, arrived on 7 Aug 73 from Clark AB, R.P.I. TSgt Smith is operating traffic safety training out of Tyndall AFB, FL, for units in the southern half of the 20th Air Division geographical region.

General: The Traffic Safety Education Mobile Training Instructor conducted training at the following units during this period: 649 Radar Sq, Bedford AFS, VA, 9-13 Jul 73; Det 1, 48FIS, New Hanover Aprt, NC, 4-8 Sep 73; 701 ADGp, Ft Fisher AFS, NC, 4-8 Sep 73; 702 Radar Sq, Savannah, GA, 10-14 Sep 73.

### (U) JUDGE ADVOCATE

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Operations and Training. The Judge Advocate Supervisory Authority of the 20th Air Division Staff Judge Advocate remained in the Air Defense Weapons Center, Tyndall AFB, FL. The special court-martial convening authority remained in the Commander, 4638 Air Defense Squadron, Fort Lee Air Force Station.

Three training sessions were conducted on the Uniform Code of Military Justice for enlisted personnel of Fort Lee Air Force Station, Roanoke Rapids AFS, and Fort Meade AFS. Drug abuse briefings were also held for personnel of the above units.

Mission: The Office of the Staff Judge Advocate, under the special court-martial convening authority of the Commander, 4638 Air Defense Squadron, accomplished the following during the 3d Quarter, CY 1973:

One Article 15, UCMJ (nonjudicial punishment) and three appeals of punishments under Article 15 were processed.

Legal assistance was given to 241 individuals

The Staff Judge Advocate traveled TDY to Bedford AFS, VA, Roanoke Rapids AFS, NC and Fort Meade AFS, MD making staff assistance visits and rendering legal assistance to military personnel and their dependents.

Thirty-nine claims against the Government were paid in the amount of \$6153.67. Twenty carrier recovery claims were collected in the amount of \$2850.37.

Equipment: New court reporting equipment has been requisitioned and approved by HQ USAF/JAF. A new calculator has also been obtained for use in claims processing.

Facilities: There have been no changes in facilities during this reporting period.

Maintenance and Supply: Updating of the legal library is continuing.

Personnel Matters Affecting the Mission: Mrs. Sylvia J.

Burroughs joined the office staff as secretary on 30 July 1973.

Captain Richard F. Papcun was released from active duty on 14 August 1973. Captain Champney attended a Staff Judge Advocate Course at Maxwell AFB. Alabama 6-17 August 1973.

The authorized office strength of the office remains at one Captain, one NCO and one civilian.

Key personnel: The following individuals are presently assigned to this office:

Captain Richard K. Champney

Staff Judge Advocate

TSgt Zirl E. Rogers

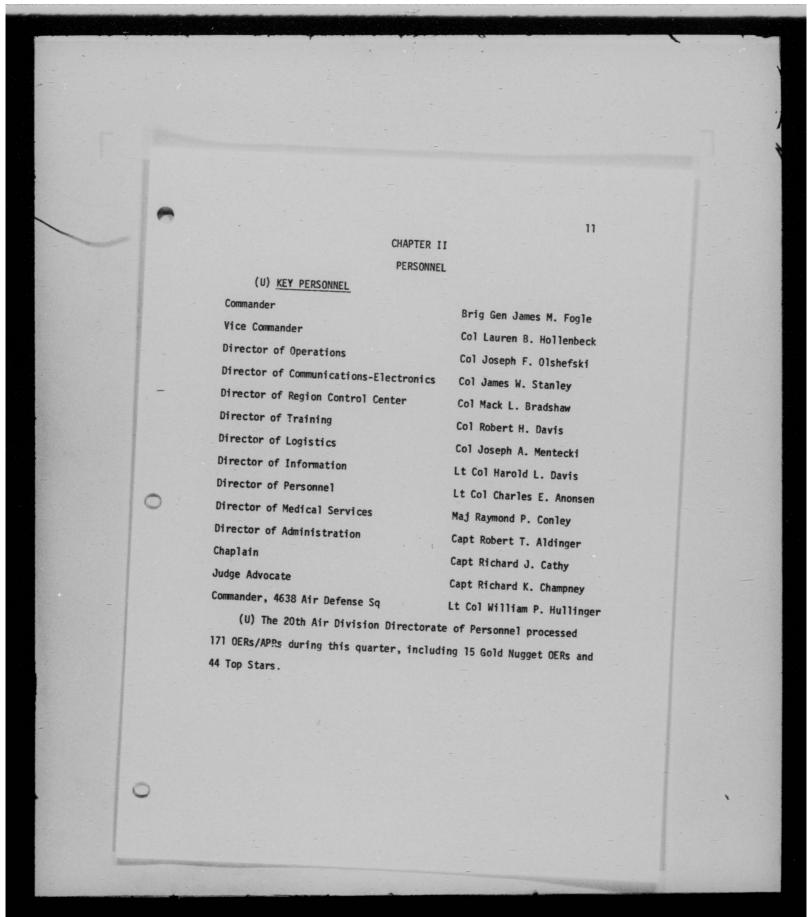
NCOIC

SSgt Robert L. Penn

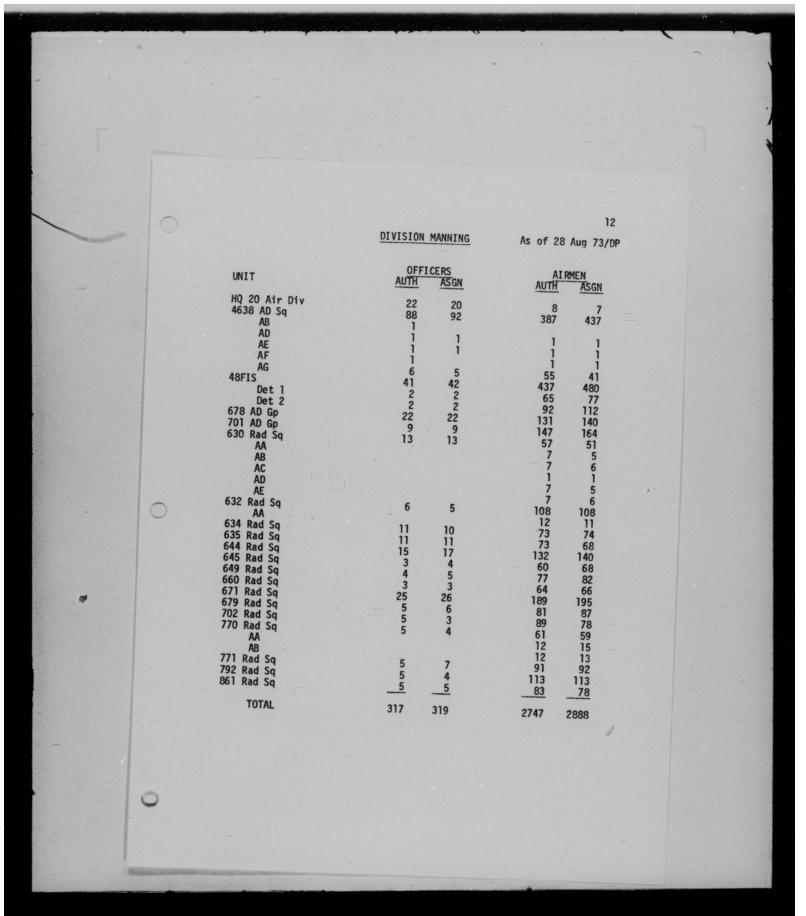
NCOIC, Claims

Mrs. Sylvia J. Burroughs

Secretary



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Sports Tournaments: Fast Pitch Softball Championships were held at 792 Radar Sq, N. Charleston AFS, SC, 23-27 Jul 73; winner was 4638 Air Def Sq.

ADC Welfare Fund Special Allocations.

UNIT	CY 72 TOTAL	JAN 73	APR 73	JUL 73
632 Rad Sq	\$6,073.18	\$ 295.16	\$ 0	
649 Rad Sq	6,073.18	742.50		\$312.00
701 Air Def Gp	5,571.12		0	0
771 Rad Sq		0	0	0
	0	0 0	0	0
792 Rad Sq	1,372.00	1,297.50	0	0
861 Rad Sq	2,340.21	3,017.75	0	
Det 1, 48FIS	944.00	0		0
635 Rad Sq	0		0	0
	U	0	3,605.75	434 55

Awards and Decorations Statistics:

	1	Approved	Disapproved
AFCMS MSMS LOMS		72 12 1	1 7

Lt Col John K. Maher departed PCS in September; Lt Col Charles E. Anonsen assumed duty as Director of Personnel on 15 September.

Social Actions Office began its existence, with lLT Ronald C. Fimbel and TSgt Carter L. Rodgers manning it.

Board was held in July to determine Division nominations for the Air Force Outstanding Unit Award. Results are shown in the attached letter. See Document #1.

Staff assistance visits were conducted to  $630\ \text{Rad}\ \text{Sq}$ ,  $634\ \text{Rad}\ \text{Sq}$ ,  $702\ \text{Rad}\ \text{Sq}$  and  $679\ \text{Rad}\ \text{Sq}$  during this period.

CHAPTER III
OPERATIONS

### (U) REGION CONTROL CENTER

During the period 1 July 1973 thru 30 September 1973, Region Control Center personnel participated in 2 live and 2 Region or higher simulated exercises. This included the live Federal Keynote 74-1 and Amalgam Arrow 74-2, and the simulated Federal Hunt 74-1. In addition, RCC personnel participated in twelve locally generated simulated exercises. A total of 6070 live intercepts were accomplished during the quarter.

Captain John German was upgraded to Expert Weapons Controller during the quarter. The following officers were upgraded to Skilled Weapons Controller: Captains Jeffrey Bosworth, Craig Eccard, Walter Green, Stuart Lange and James Morrison. MSgt William Showalter and SSgt Robert Kerlin were upgraded to Skilled Weapons Controller Technician. Two officers and 41 enlisted personnel completed their initial operationally ready training, and 10 officers and 47 enlisted personnel were in training status at the end of the quarter.

1LT James Fodrey and TSgt Jimmie Double departed for Radar
Inputs and Countermeasures Officer School during the quarter; Captain
Clifford Deslatte began Interceptor Weapons School; and Captain Lester
Newton returned from Squadron Officers School.

During the quarter nine officers and 26 enlisted personnel reported in to the Region Control Center while six officers and 16 enlisted personnel were reassigned or separated from the Air Force.

As of 30 September, there were 56 officers and 165 enlisted personnel

available for duty.

# (U) OPERATIONS AND TRAINING

### Weapons Division (DOTW)

DOTW participated in one simulated and one live exercise during this quarter. One Staff Assistance Visit was made to the 112 FIGP, Gtr Pittsburgh IAP, PA, 27-30 September 1973, in preparation for a General Inspection scheduled for October 1973 by the ADC IG Team. Operational training and management was satisfactory with emphasis required in the Stan-Eval function. The 169 FIGp, McEntire ANGB, SC, underwent a USAF IG Unit Effectiveness Inspection, 10-14 September 1973. Lt Col G. W. Brindley reported in as Chief, Weapons Division in July and MSgt C. D. Douglas arrived in July as NCOIC, Weapons Division.

# Operations Support Division (DOTS)

20th NORAD Region units supported four NORAD/ADC and two 20th NORAD Region conducted exercises by flying target support in T-33 and UE aircraft. One target was a weather cancellation. The 48FIS was scheduled for seven UE sorties and flew six as scheduled with one ground abort. The ANG flew six out of ten scheduled T-33 missions. Two were cancelled for lack of aircrew and two were weather cancellations. The ANG units also flew ten of 11 scheduled UE target missions with one weather cancellation. Flight checks were flown as part of the evaluation of Slidell, LA and Lake Charles, LA. Air Division pilots flew 36 sorties in support of these two evaluations.

The Air Division utilized 65 percent of the T-29 time allocation due again to heavy use of the 21st NORAD Region T-39 to fulfill some of the Division commitments. The T-39 supported missions for the Commander as well as 48FIS aircrew exchanges at Det 2, 48FIS at Homestead AFB, FL. Maj Costain assumed the duties as OIC of Scheduling.

## Control and Environment Division (DOTE)

Capt Joseph E. Whalen was assigned to DOTEE 16 September 1973 to replace Capt Dennis W. Clark who has received a MAAG assignment to Lisbon, Portugal departing 15 November 1973. Staff Assistance Visits were conducted by DOTE/DOTEE to the following units: 630 Radar Sq, Houston, TX, 8-10 July 1973; 635 Radar Sq, Lake Charles, LA 10-11 July 1973; 771 Radar Sq, Cape Charles AFS, VA, 4-7 September 1973; and 678 Air Defense Group, Tyndall AFB, FL, 17-21 September 1973.

(U) INTELLIGENCE

During the quarter, the Director of Intelligence, Lt Col Floyd A. Sooy, retired and the Directorate secretary, Mrs. Mary J. Russell, transferred to another job with a higher GS position. To date, the Directorate has been unable to obtain a replacement secretary, due in part to heavy hiring by other federal agencies in the area offering higher GS positions. Major Alan C. Cucullu arrived from PACAF in July as Lt Col Sooy's replacement.

# (U) COMPUTER PROGRAMMING DIRECTORATE (DOPM)

During the quarter 1 July 1973 thru 30 September 1973, DOPM completed final checkouts and testing of SUOP Version 53. Region

environmental testing exposed a critical problem with the version which delayed the operational date until 30 July. All console label changes and operations briefings were completed prior to this date.

SUOP version updates became operational on the following dates:

Update	<u>Operational</u>	Date
52.20	3 Jul	73
53A	30 Jul 1	73
53B	8 Aug	73
53C	7 Sep 7	73

There were six Design Change Suggestions (DCS) considered at two 20AD DCS Review Committee Meetings. Four of the suggested changes were recommended for approval with normal priority.

Personnel actions during this reporting period included one programming officer departing for instructor duty at Keesler AFB, MS. Two new programming officers arrived in August, but their technical school training has been delayed until January.

### (U) COMMUNICATIONS-ELECTRONICS

Backup power installation projects continue to be delayed.

The installation at Palermo AFS, NJ GATR site was to have been given its final acceptance inspection during August 1973. Due to the lack of electrolyte for the diesel engine starting batteries and oil for the generator, the test was cancelled. Contractual interpretations were the basic cause for the delay. The final test date of 10 Oct 73 has been established by ADC. The power distribution for backup power at the 632 Radar Squadron, Roanoke Rapids AFS, NC, has been delayed

due to lack of bidders. Contractors are reluctant to bid due to increasing cost of material from the time of awarding the contract to completion date. This HQ proposed to ADC to award a labor only contract with the Air Force furnishing necessary equipment.

ADC has requested Keesler AFB to prepare the engineering specifications for the backup power installation at the 635 Radar Sq, Dauphin Island, AL. Estimated completion date for design specifications is FY 274.

ADC requested that HQ 20 Air Div submit cost quotes for connecting commercial electrical power to the SAGE Complex which could be utilized as either prime or backup power. 4638DE has initially quoted \$175,000 for sub-station. This does not include the design cost.

Consolidation of Communications Centers: Members of the Fort
Lee QMC and HQ 20 Air Div met on two occasions to formulate plans
for the consolidation of the Fort Lee and HQ 20AD Communications
Centers. All parties agreed with the selected location of Room 118,
Bldg 1109. HQ 20 Air Div and Army Communications Engineers are
scheduled to perform the initial engineering site survey during
FY 274. Five Army personnel are being issued escort privileges to
the SAGE Building in order to perform escort duty during the installation phase.

Telephone Service Requests have been issued to deactivate Air Force communications equipment at the 671 Radar Sq, Key West NAS, FL.



The 671 will during FY 274 receive their record communications support through the Key West NAS Communications Center and the 671 Communications Center will be phased out.

A proposal to consolidate the 678 Air Def Group's communications center has been submitted to HQ ADC for final revision. HQ 20 Air Div recommended the Base Communications Center be moved to the 678th and operated from that location.

Support Requirement Letter for the installation of the AN/FYQ-49 and AN/GPA-125 at the 634 Radar Sq, Lake Charles, LA and 635 Radar Sq, Dauphin Island, AL have been received and endorsed to AFCS. The required operational date (ROD) for these installations is 31 Dec 73. Effective that date, both units will transmit radar surveillance data to the Houston Center and cease to operate as NMGCI stations.

The 4754th Radar Evaluation Squadron completed its evaluation of the AN/FPS-27A (SEED CLEAR) radar at Roanoke Rapids AFS, NC. A debriefing of flight performance was conducted at this Division on 23 July 1973.

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The 4754th Radar Evaluation Squadron completed evaluations of the AN/FPS-90 radars at Slidell, LA, Lackland, TX and Odessa, TX. A station evaluation was completed at Lake Charles, LA.

Activation flights for the AN/GPA-124 at Cape Charles AFS, VA were completed 9 August 1973.

The AN/GPA-124 at the 649 Radar Squadron, Bedford AFS, VA was commissioned 20 September 1973.

Special testing of PACE evaluation flights against the AN/FPS-27A (SEED CLEAR) radars at Roanoke Rapids AFS, NC and North Charleston AFS, SC has been completed.

This office is in the process of rewriting 20th Air Division Operations Order 3204. The new Operations Order will include PACE procedures for the Southern Defense sites.

Capt Gordon J. Mabus was assigned as Chief, Electronics Systems Division, Directorate of Communications-Electronics, in August 1973.

Equipment and Circuit Status: Circuit effectiveness averaged at 98% for the AUTODIN circuit and 99% for the ADC Eastern Loop Circuit.

Communications Operations. The Communications Center achieved a CIM rating of under one percent during this quarter. Net Control of the Eastern ADC Tactical Teletype Loop Circuit was transferred from this station to 23 Air Division, Duluth, Minnesota.

CEM 2110-Sup 2, Level V Ground/Air Voice Communications at the LRR/GATRs. Rates have been filed in FCC Tariff 260 and quotes have been made to DECCO. However, ADC message DTG 201815Z Sep 73 has put this project in a "hold in abeyance" status due to operational problems.

Modular Automatic Conference Arranger (MACA) bridges have been installed at Lyons and Mounds switches for NORAD conferencing. Training on MACA was conducted at the Region on 21 August 1973 by an AT&T Representative.

Orders have been issued for two each ground/air circuits between Houston MNCC-Lake Charles/Dauphin Island. Service date is 30 Nov 73.

CEM 2067-Sup 7 and autovon network (AVN) Project 967. Orders were issued for additional features (automatic answering, tone detector, alert lamps, an audible buzzer and a monitor jack equipped with associated speaker cut-off) at all AADCPs, and for the addition of augmentation units (Oceana NAS and Beaufort MCAS) to the Weapons Alert System.

During this period Capt McDonough and TSgt Langlands conducted a COMSEC inspection and a communications center staff assistance visit at the 177 Fighter Group, Atlantic City, NJ.

SMSgt Hazelwood joined the 20th Air Division staff in an assistance visit to the 112 FIGp, Greater Pittsburgh AP, PA, from 27-30 September 1973.

### (U) EXERCISE AND EVALUATION

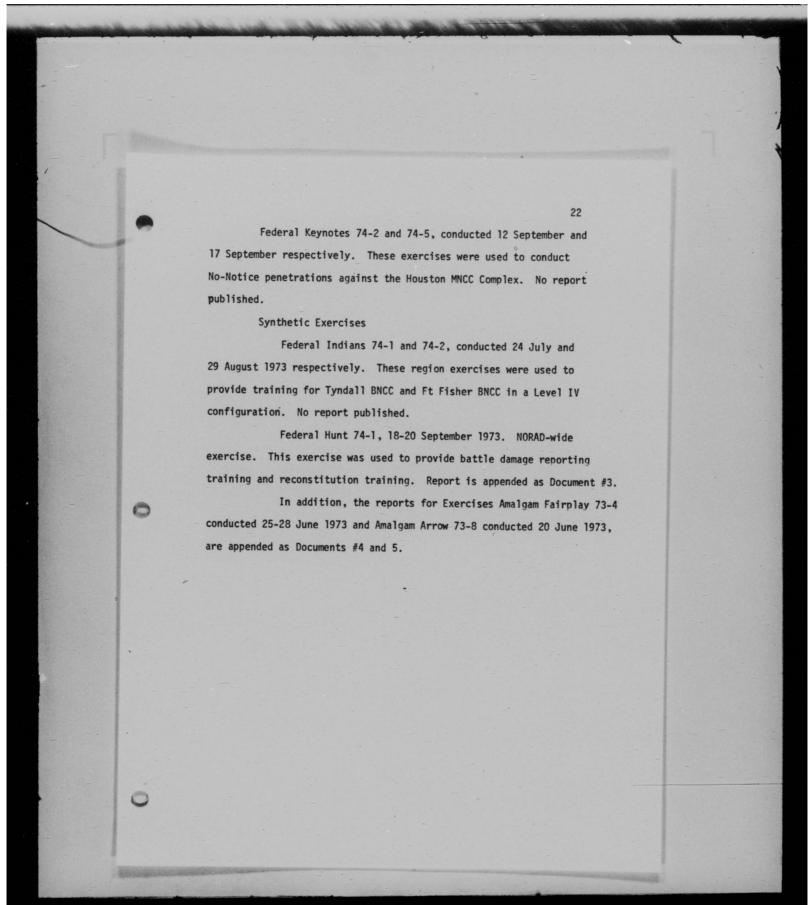
This Directorate participated in, designed, and conducted nine exercises during this quarter. Six were live and three were synthetic exercises.

Live Exercises

Federal Keynote 74-1, 14 August 1973 - This exercise was used as a Defense Combat Evaluation (DCE) for the Pittsburgh ADA Defense. No report published.

Amalgam Arrow 74-2, 17 August 1973 - Used to provide Region-wide training. Report is appended as Document #2.

Federal Keynotes 74-3 and 74-4, conducted 29 August and 11 September 1973 respectively. These exercises were used to provide training for Miami/Homestead Defense prior to their Defense Combat Evaluation (DCE). No report published.



### CHAPTER IV LOGISTICS

(U) Mission Statement. Advises the Commander on matters pertaining to materiel support of all air defense activities within the Air Division to include supply and materiel services support of aerospace vehicles and tactical/radar and early warning units. Exercises command surveillance over commissaries, base exchanges, food services, linen exchange, and fuels. Coordinates distribution and use of Air Division materiel resources. Reviews budgetary programs and evaluates the materiel support effort.

(U) Key personnel.

Director of Logistics

Col Joseph A. Mentecki

Supply Mgt Staff Officer

Lt Col John D. Hiers

Dir of Ground CEM Maint

Maj Jerry G. Smith

Aircraft Maint Staff Off

Maj Frank H. Matthes and Maj Ronald

E. Guerrieri

### (U) Significant Events

The quarterly Not Operationally Ready Supply rate on the F-106 for the 48FIS was 4.7%. This compares favorably to preceding quarterly rate of 7.8%. There were a total of 87 cannibalization actions during the quarter.

Capt David W. McVicker was assigned as RCC CEM Maint Supervisor eff 1 Jul 73.

Lt Robert J. McGann was appointed additional duties as Staff
Security Officer for the Directorate of Logistics and Ground Safety
Officer for Fort Lee AFS.

Z-56, Cape Charles AFS, VA commissioned the GPA-124 in Sep.

Z-121, Bedford AFS, VA commissioned the GPA-124 in Sep.

Z-243, Andrews, TX commissioned the FPS-90 in Jul.

Z-242, Oilton, TX commissioned the FPS-90 in Jun.

CC-4 installed one card reader, one line printer and two keypunch machines as part of the IBM overhaul program.

Sixty-two technical inspections, 8 personnel evaluations and 3 activity inspections were performed.

Quality Control performed 5 activity inspections, 5 technical assists and 2 joint quality control inspections (FAA/AF).

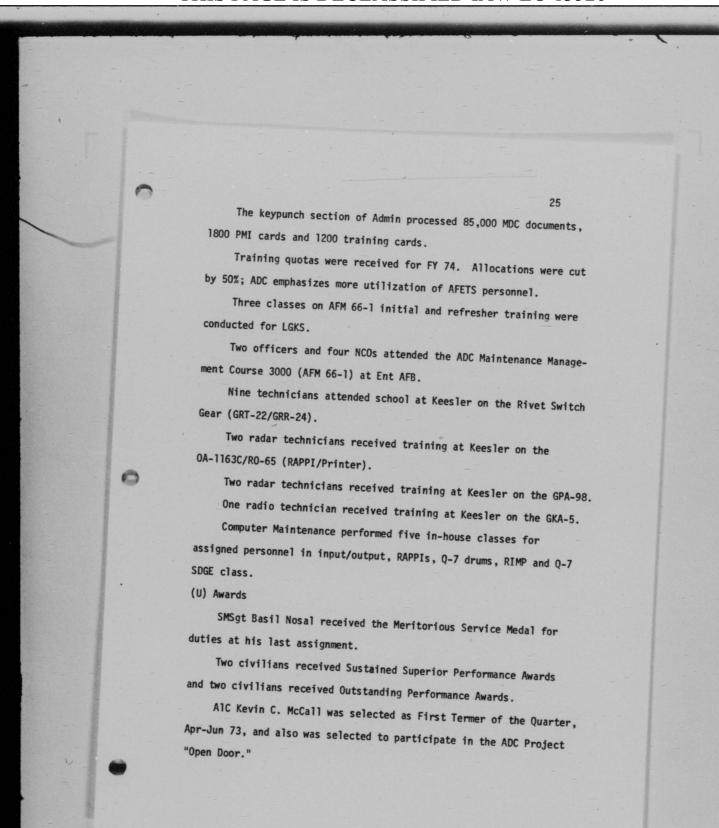
There were 9 mechanical pre-IRANs, 9 electrical pre-IRANs, 2 emergency on-site maintenance assists, 3 radar evaluations, 10 outside plant visits and 3 lateral maintenance assists.

During this period, the Hamilton EACC was transferred to

Peterson Field EACC which resulted in cessation of bench stock replenishment and caused a large increase in priority NORS status.

Division Antenna Maintenance Team performed one emergency maintenance request and five squadron assists for PMIs.

Crypto Maintenance performed two emergency maintenance trips to Ft Fisher for equipment repairs.



### CHAPTER V

### 4638 AIR DEFENSE SOUADRON

(U) The 4638 Air Defense Squadron (SAGE) continued to render administrative and logistical support to Hq, 20 NORAD/Air Division, Fort Lee AFS, VA throughout the period 1 July - 30 September 1973; Lt Col Hullinger commanding the squadron. There were many significant events which occurred during this period and are listed under the various 4638 Air Defense Squadron subsections.

(U) Orderly Room. The 4638 Air Defense Squadron had an average assigned strength of 539 personnel consisting of 93 officers and 446 enlisted personnel. The Orderly Room processed a total of 143 transfers, separations, retirements and 291 leaves. Total number of personnel billeted in four dormitories managed by the squadron was 189 airmen within 119 useable rooms. A total of 312 assigned personnel were placed on squadron details during the months of July, August and September 1973. Disciplinary actions during the quarter ending 30 September 1973 were as follows: One Article 15 administered, 62 letters of indebtedness processed, 61 unfavorable information files screened and 16 letters of reprimand administered. A total of 15 assigned personnel were entered into the Air Force Weight Control Program during this period. Average number of personnel selected for random testing under the Drug Abuse Testing Program was 28 per month, with no confirmed positives being detected. A total of three assigned personnel were carried in Absent Without Leave (AWOL) status

during portions of Aug and Sep 1973. A new Fort Lee Air Force Station Regulation 35-2, titled "Dress and Personal Appearance of Air Force Personnel," was published on 20 September 1973, establishing policy and requirements for the proper wear of the Air Force uniform, prescribed organizational insignia, plus dress and appearance standards within certain facilities on Fort Lee AFS, Virginia. The squadron participated in four Fort Lee sport activities, capturing first place in Slow Pitch Softball and Golf, second in Fast Pitch Softball, and third place in Horse Shoes. The squadron sponsored the annual Labor Day Slow Pitch Softball Invitational Tournament, with a total of eight teams participating. The squadron Fast Pitch Softball Team captured the 20th Air Division Fast Pitch Championship by defeating the 632 Radar Sq, Roanoke Rapids AFS, North Carolina. Projects completed during the quarter which enhanced the overall morale and welfare of assigned personnel was the consolidation of all published minutes of committees and council meetings on one Bulletin Board within the squadron Orderly Room area, thus assigned personnel have one central location for the review of all minutes published over a period of one year. Cable television was installed in all dormitories, thus improving the reception and number of television programs available for viewing in the lounge area.

On 21-23 Sep 73 the Civil Air Patrol held their annual Drill Competition meet at Fort Lee under the 20th Air Division sponsorship. Several states were represented which included drill teams from Maryland, Washington, D. C., Virginia, North/South Carolina. Air Force

Project Officer for the event was Major Rajcich (Chief Judge) with SMSgt Honeycutt, MSgt Hart, TSgt Scott, SSgt Holland, and Sgt Grounds acting as judges. A dinner was held following the event and the award (trophy) for the winning team, 111th Communications Squadron, North Carolina, was presented.

(U) Transportation. During the quarter, the 4638 Transportation Section made 764 trips compiling a total of 99,098 miles with no reportable accidents. There was no change in vehicle status. The following activities were supported by the Transportation Section: JOC sponsored tour of the aircraft carrier USS America at Norfolk Naval Base, Air National Guard training at Fort Lee AFS for trips to various sites within 20th Air Div, training program for Boeing Engineers at Ft Lee AFS, JOC sponsored picnic for mentally retarded children of Petersburg Training School and Hospital, team for Master Air Defense for OLAA, 4757 ADS (IWS), Ft Lee AFS, AMALGAM Arrow Team, Air Commodore Sismore (RAF) and party visit to Hq 20 NORAD Region, VCU Aerospace Workshop sponsored by Hq 20 Air Div, Gen McKee, ADC Commander and party visit to Hq 20 NORAD Region/Air Div, 20 Air Div Communication-Electronics Maintenance Management Conference, Re-registration of all vehicles owned by military and civilian members of Ft Lee AFS. Ft Lee Council of Catholic Men Poverty Program, Ft Lee Ceremonial parade, BUIC training program on two occasions. There was one gain and one loss of personnel.

(U) <u>Security</u>. Capt Jonathan E. Miller was awarded the Meritorious Service Medal.

Five Security Program Tests were conducted on subordinate units. All of the units except one received satisfactory or excellent results. The one unit, 112FIGp, Pittsburgh, PA, was rated unsatisfactory.

Twelve staff assistance visits were conducted by the Directorate of Security Police to subordinate units during this period.

The Security Police Section during this quarter issued a total of 161 AF Forms 1199a, Restricted Area Badge. The Security Police Section also processed a total of 56 ID Cards, DD Forms 2AF. Two individuals, Amn Ronald A. Crouch and Amn Ronnie D. Peterson, were selected by Hq ADC and participated in the Security Police world wide Rifle and Pistol Matches held at Lackland AFB, TX 4-10 Sep 73. Personnel actions included: One new security policeman, Sgt Ellis Hargress. AlC Jerry W. Robertson was selected for promotion to the grade of Sgt during this period. Also during this quarter, the section participated in four retirement ceremonies.

(U) OJT/GMT Training. During this period the squadron had 9 officers and 53 enlisted personnel complete courses with ECI. There are presently 22 officers and 145 enlisted personnel enrolled in ECI courses. At this time we have 17 officers and 46 enlisted personnel attending college courses under the Tuition Assistance Program during Terminal Bootstrap Program. In the OJT Program, the squadron upgraded 33

personnel this quarter, with an average in training of approximately 130. At this particular time, we have 132 personnel in training and no one in excessive training. In Aug and Sep, the 90-day OJT Staff Visit was conducted with numerous discrepancies observed in the annotation of the OJT Records. A follow-up inspection will be conducted in Oct 73. The Physical Fitness and Weight Control Program was conducted in Sep for those personnel who failed to show in April and June and for newly arrived personnel. A make-up period will be conducted again in Nov for newly arrived personnel and for those who did not show in April, June or September.

(U) Food Service. New personnel during this period included

Amn Elroy G. Reese being assigned to the Dining Hall from Lackland

AFB, TX. Personnel departing during this period - Sgt Michael Snell - assigned to Korea. Expenditures for feeding included:

Jul 73 \$6,414.14

Aug 73 5,798.75

Sep 73 6,422.27

Total for Qtr \$18,635.16

Total number of weighted rations served during the period 1 Jul 73 - 30 Sep 73 - 7,854; average per day 85.

Personnel assigned as of the end of this reporting period:

James C. Kidd, MSgt, NCOIC, Food Service; Thomas Small, TSgt, Dining

Hall Supervisor; Volmon J. Rivette, SSgt, Storeroom Clerk; Joseph

Goode, SSgt, Senior Cook; Richard Vanover, Sgt, Cook; Reuben Branham,

Sgt, Cook; Liecester Broadhurst, AlC, Cook; Ronald Miott, Sgt, Baker;

Elroy Reese, Amn, Baker; Steven L. Jones, AlC, Admin; Thomas Alderson, Civ, Cook; Wallace Hines, Civ, Food Service Worker; John Branch, Civ, Food Service Worker; John Goodrich, Civ, Food Service Worker; Elmer Nixon, Civ, Food Service Worker; Frank Stith, Civ, Food Service Worker; Viola Suber, Civ, Food Service Worker.

There is an extensive renovation program in progress which will be included on the next historical report.

- (U) <u>Personnel</u>. The following personnel actions were accomplished during this quarter: 45 personnel were out-processed for CONUS/OS assignments; 68 personnel were in-processed; 13 personnel were processed for retirement; 8 personnel were processed for reenlistment; 17 personnel were separated or discharged; 5 personnel were processed under the HRP/PRP Program; 45 officer effectiveness and 141 airman performance reports were processed. Personnel presently assigned: 1LT Joseph D. Steiner, Personnel Officer; SMSgt Larry O. Smith, NCOIC, WAPS testing; TSgt William A. Decker, Assistant NCOIC; SSgt William H. C. Jarvis, OER/APR; Sgt Calvin Bey, Discharge/Retirement Transition; Sgt James R. Smith, Special Projects; AlC Robert W. Kleehamer, Assignments.
- (U) <u>Station Support (Supply)</u>. Station Support continued to contribute to the successful accomplishment of the 4638 Air Defense Squadron mission by rendering equipment, supply and local purchase procurement support to assigned activities during this reporting period. The supply and equipment budget was established for FY-74

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by Hq ADC at \$73,300. This is a reduction of almost 20% from FY-73 \$89,100. The practicing of stricter economy measures becomes absolutely essential. Accomplishments of each section were as follows:

Equipment Management - The entire Station has been reinventoried to reconcile balances. This was due to the changing of alternate custodians for Account 680, 682 and 684.

Supplies Management - The self service store continued to offer support to the Ft Lee Air Force Station. Although under an austerity program of strict budgetary controls, this section has been able to continue an outstanding shelve fill rate. In addition, more controls have been placed in the area of local purchase to provide better service, and to eliminate non-local purchase requests.

Office Administration - The Station Support Facility has been involved in a self help program of office beautification along with changing operating hours to better fit the needs and demands of the station. Personnel changes occurring during this period were: Airman Leaetta Williams transferred to 20LGKQA/R. SSgt James A. Thompson arrived on Ft Lee on 18 July 1973 and assumed the position of NCOIC, Station Support.

(U) <u>Utilities</u>. Preliminary steps were initiated for consolidation of the U. S. Army Telecommunications Center at Fort Lee with Headquarters 20th Air Division Communications Center. The Joint Chiefs of Staff has directed the combined Army operated center be located in Bldg P-1109.

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Discussed at a preliminary meeting were the site location, requirement for air conditioning and power, message distribution, personnel clearance, space of approximately 1500 sq ft and a requirement for adequate lighting. U. S. Army representatives from Ft Lee noted that Army would provide funding, engineering and installation services for the consolidation. Changes would be required in the interservice agreement. A date for the engineering site survey was not available.

The contract for diesel fuel expired 31 July 1973 and U. S. Army Materiel Contracting Settion has been unable to obtain another contract. Fuel oil is being purchased from Army and Navy supplies for the present.

An electrically operated vehicle gate was installed at the entrance to the fenced enclosure of Bldg P-1109 by personnel of the Air Force and the Army at Ft Lee, VA. The gate was obtained from Langley AFB after the closure of the missile site at that location. Structural work was performed by 4638 Utilities personnel, electrical work was performed by USA/DFAE personnel and the painting completed by the First Sergeant's work detail. Considerable funds were saved by self help installation.

A study has been performed by USA/DFAE personnel at Ft Lee, Virginia pertaining to methods and the approximate costs of installing commercial power to the power plant at the Direction Center, Fort Lee AFS, Virginia. This will require approximately \$175,000 for construction and \$12,000 to \$15,000 for design of the project. Hq ADC will evaluate the results of the study for possible implementation.

A general overhaul of number 6 diesel engine was accomplished by personnel of the Utilities Section under the direction of the Maintenance Engineer. Most main and connecting rod bearings were replaced along with all piston rings. All cylinder heads were repaired including facing and reseating the valves. All major parts of the diesel were cleaned and checked. This represents 48,661 hours of operation time since the diesel was last overhauled in December 1962. The original cylinder liners and pistons are still in use.

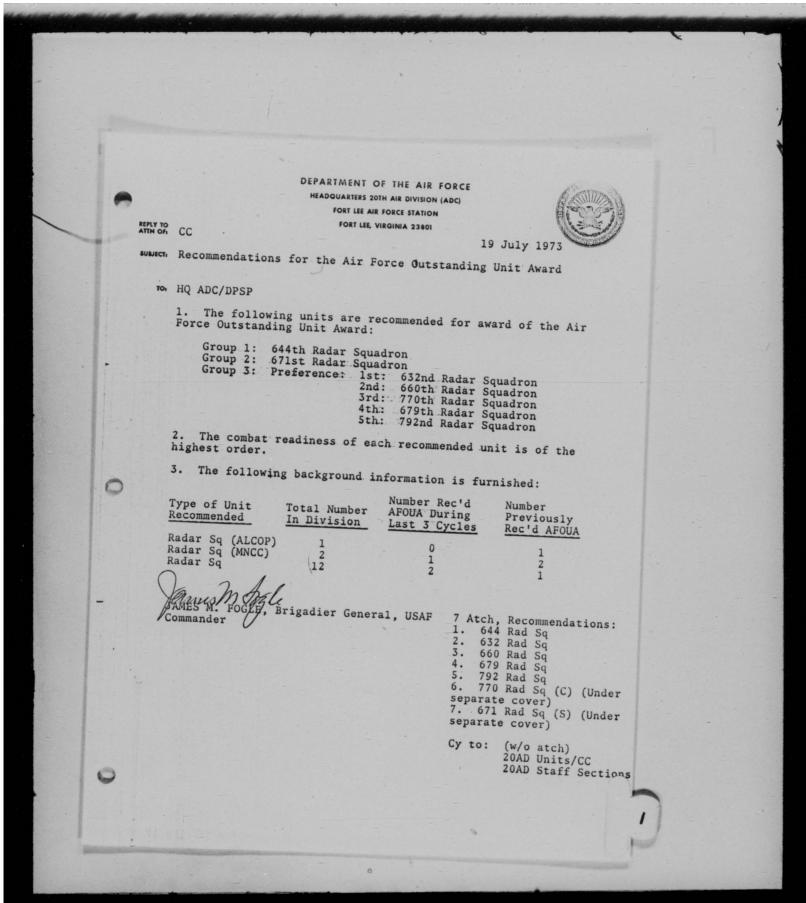
Installation of shelving for the WAF's kitchen was accomplished by the AFS carpenter. The carpenter also constructed portable storage bins with shelving for use at the AFS support supply building. A wire cage was constructed on the second floor of Bldg P-1109 for storage of ready items required to be under lock and key for the computer supply section.

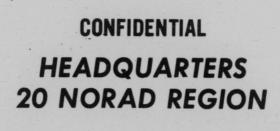
Eight corrosion resisting type suction screens were constructed by the Host Base, U. S. Army at Ft Lee, VA. The screens replaced corroded screens that had been in use since the opening of the SAGE site in 1957 at the cooling tower basins.

The 169 Civil Engineering Flight Section from McEntire ANG Base, Eastover, S. C. reported for two weeks of active duty to the Ft Lee AFS in July 1973. Personnel of various trades were utilized for performing tasks at several 20th Air Division units under the guidance of the 20th Air Division Civil Engineer. Power production and air conditioning personnel assisted with maintenance of the 4638 Air Def Sq SAGE Power Plant, Ft Lee AFS, VA.

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- (U) <u>Disaster Preparedness</u>. Preliminary plans were made during this period to update Disaster Preparedness Procedures for the Exercise Evaluation Team (EET), and the Station Command Post which is used as a point of shelter, security, management and manpower coordination with the quarterly Disaster Preparedness Planning Board. The 4638 ADSq Recall Plan was reaccomplished on 5 Sep 73 with changes being made on the general format as they occur.
- (U) Maintenance and Repair. The function of maintenance and repair, Mr. Trumbo, carpenter and technical advisor to self-help projects, has been placed under the responsibility of the 4638 Civil Engineering Section (DE). All historical reports hence, concerning these activities, will be consolidated with 4638DE.
- (U) <u>Social Actions Office</u>. This office was established on 4 Sep 73, Building 1104, Fort Lee AFS, VA with two positions being authorized and filled as follows: Social Actions Staff Officer 1st Lt Ronald C. Fimble and Social Actions Technician TSgt Carter L. Rodgers. This office functions as command OPR for Drug Abuse Control, Alcohol Abuse Control and rehabilitation, Equal Opportunity and Treatment of Military Personnel, Education in Race Relations and Support of Domestic Actions Program. Functions as a liaison office with host installations in the implementation of required programs and support in accordance with command and Air Force directives.





## **EXERCISE & ANALYSIS REPORT**



## EXERCISE AMALGAM ARROW 74-2

CLASSIFIED BY 20 NORAD REGION/NREA SUBJECT TO GENERAL DECLASSIFICATION SCHEDULE OF EXECUTIVE GROER 11652; AUTOMATICALLY DOWNGRADE AT TWO YEAR INTERVALS, DECLASSIFY ON 31 DEC 79

OPR NREA

CONFIDENTIAL

13 SEP 73

THIS PAGE IS UNCLASSIFIED PREFACE This document consists of post exercise analysis information for AMALGAM ARROW 74-2, which was conducted on 15-17 August 1973. This report contains significant facts and statistics associated with the exercise. The primary purpose of this report is to determine if exercise objectives were met, analyze the training conducted, identify problem areas, and indicate where improvement is necessary. Trouble tracks are summarized in Part III of this report. Subordinate units are encouraged to make a detailed analysis of specific factors noted in their area of responsibility. Permission is granted to reproduce this document in whole or in part, subject to the classification of the appropriate pages. THOMAS A. PAYNE, CO Deputy Commander THIS PAGE IS UNCLASSIFIED

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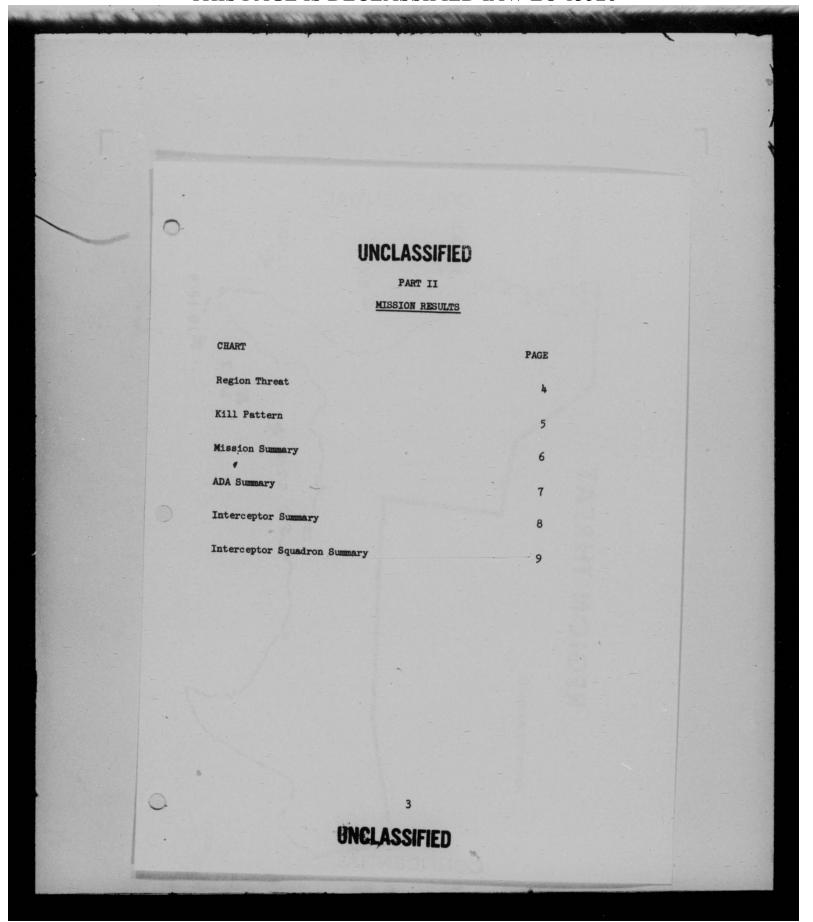
PART I

#### EXERCISE DESIGN AND OBJECTIVES

- 1. (U) Exercise Design. AMALGAM ARROW 74-2 was a multi-region exercise designed for the 20th and 21st NORAD Regions. The 20th portion of the exercise was to exercise the RCC, Tyndall BNCC, and Key West MNCC. It consisted of 2 faker waves which included a Gulf threat. The first wave was run in a "Bravo" configuration, and the second wave in an "Alpha" configuration. Seventy-three high, medium and low faker routes with no apparent affect on the target force; however, weather at wille reduced the interceptor force appreciably, since both the EHs and NKs had to stand down for the second wave.
- 2. (C)(U) Objectives. There were five exercise objectives. Four were Headquarters NORAD objectives and one was 20th NORAD Region objective.
- a. (C) The first objective was to exercise the air defense components within the 20NR. This objective was met. For the RCC, even though ECM levels were low, there was good training in a live exercise environment. The RCC crews had 24% of weapons and 44% of surveillance and ID personnel either in training status or participating in their first live exercise, and the training was very beneficial to them. Key West MNCC felt that the exercise was poorly designed for maximum surveillance and weapons training. Details of exercise design will be discussed in Part V, the Problem Action Reports portion of this document.
- b. (U) The second exercise objective was to exercise safe passage of interceptors through the ADA defended area. This objective was met and exercised in the Key West MNCC ADA area of responsibility.
- c. (U) The third objective was to exercise the capability for passive detection, tracking and interception of targets. This objective was partially met. For the RCC, there was not sufficient ECM to necessitate passive tracking procedures. Mechanical ECM increased data count and the need for extra care in tracking through chaff areas, but overall ECM training benefits were low. Tyndall reported good passive tracking training in Sector II.
- d. (C) The fourth objective was to exercise FIS flush procedures at Langley, Homestead, McEntire and Jacksonville. This objective was
- (1) The flush at McEntire and Homestead went well. Six aircraft were flushed at McEntire. Three were off in 15 minutes and all were off in 17 minutes. At Homestead, 4 aircraft were flushed. Three were off in 15 minutes; the final one was off 3 minutes later.

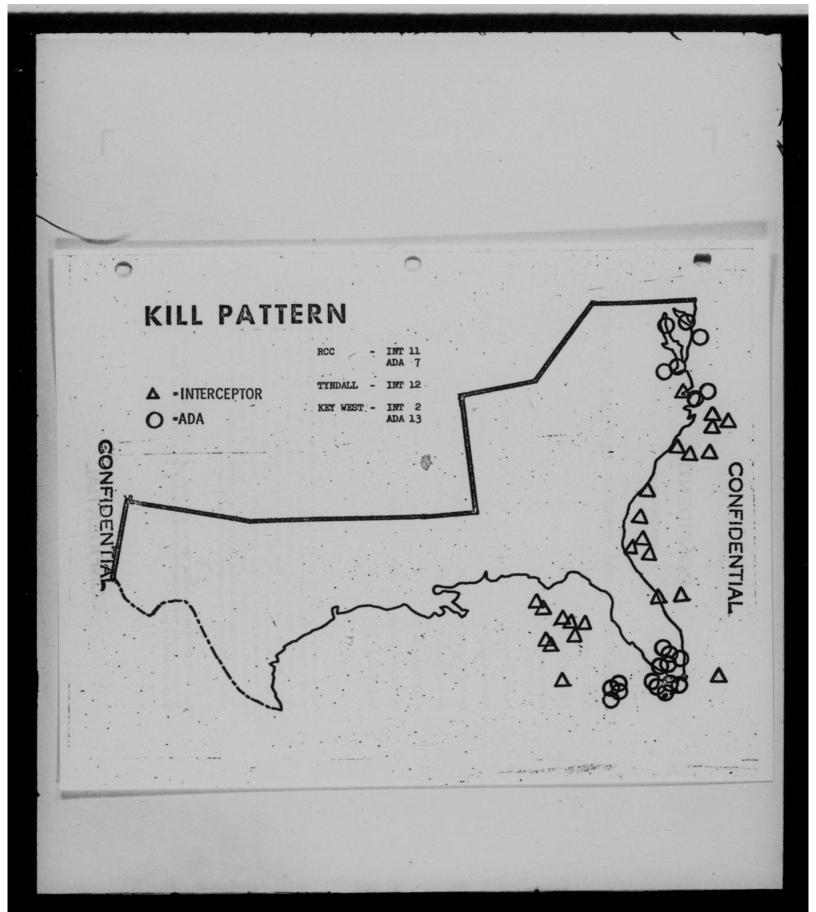
- (2) An elephant walk was substituted for the Jacksonville flush since the main runway was not in use. The secondary runway was shorter, without a barrier, and did not provide adequate approach lighting. These conditions were further complicated by a wet runway.
- (3) The flush at Langley was only partially successful. Of the 10 MGs and 6 MP aircraft at Langley, none were airborne within 15 minutes of the issued flush order. Two were off within 20 minutes, 6 within 30 minutes, 10 within 40 minutes. The remaining 5 aircraft were off 47 minutes after the flush was issued. The problems with the Langley flush will be further explored in Part V, the Problem Action Reports portion of this document.
- e. (U) The final exercise objective was a 20th NORAD objective, to exercise the use of AEW&C for surveillance and early warning. This objective was not met due to a mission of higher priority for the AEW&C aircraft.
- 3. (U) Region Threat. Seventy-three fakers flew with 61 charged. There were 12 fakers not charged. Eight of the 12 fakers not charged were due to no fighters available at McEntire and Jacksonville during the second wave. Three no charges were made unsafe for weather at critical points during interception and one target not charged air aborted for lights immediately after IP.

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MISSION SUMMARY

TACTICAL ACTION	20RCC	TYNDALL BNCC	KEY WEST MNCC	REGION TOTALS
Fakers Planned	43	20	22	85
Fakers Flown	39	14	20	73
Fakers Flown/ Not Charged	11	1	0	12
Fakers Detected	38	13	20	71
Fakers Identified	38	13	20	71
Fakers Charged	28	13	20	61
Fakers Engaged	25	12	18	55
Kills Prior to BRL	18	12	15	45
Neutralization Rate	64%*	92%	75%**	74%
Total Kills	29	14	15	58

\*For the RCC, the late airborne times from the MG and NP aircraft out of LFI during the flush contributed substantially to its problems. As a result, handover of interceptors to Fertile control from the ARTCC was not complete when first targets appeared. Furthermore, some interceptors had to be returned to base immediately in order not to exceed close control capability. This delay and subsequent overflooding of control capability just as targets appeared, resulted in delayed commitments and failure to neutralize some fakers in order to maintain safe control of interceptors.

\*\*Key West problem was with two fakers that came in the back door on the Gulf coast with unexpected BRLs in the water outside of Miami and effective range.

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ADA SUMMARY

N TOTALS
17
29
38
20
9
29
5

\*3 PK 2 Lost Target

7

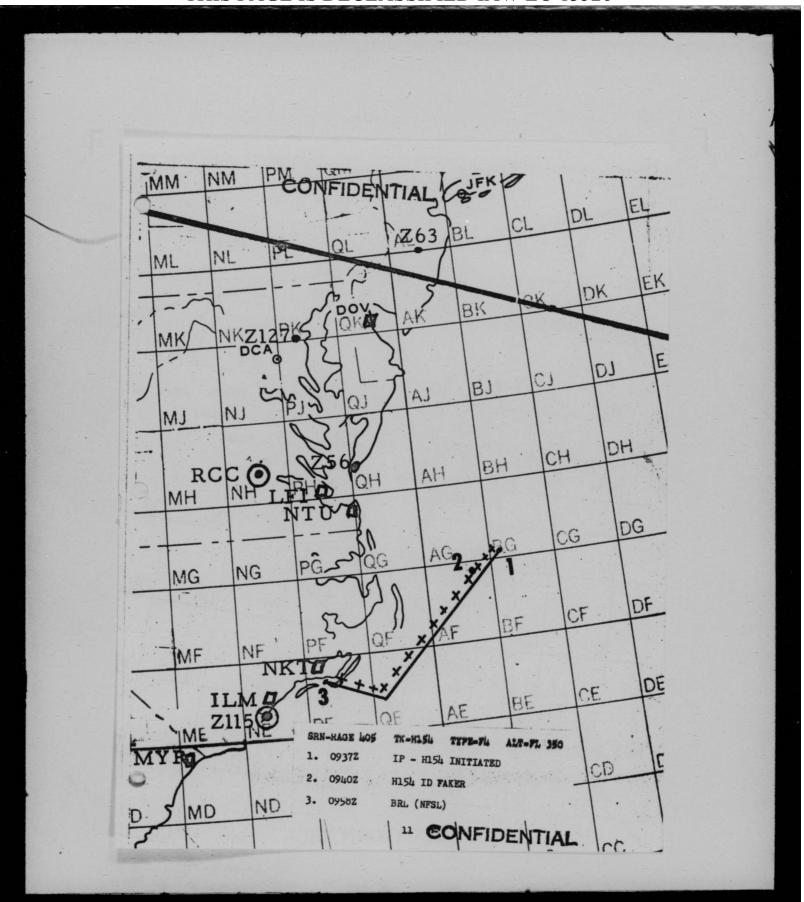
INTERCEPTOR SUMMARY

TACTICAL ACTION	20RCC	TYNDALL BNCC	KEY WEST MINCO	REGION TOTALS
Fighters Available	24	12	4	40
Sorties Flown	44	12	7	63
Air Aborts	1			1
Ground Aborts	1			1
Faker Com'td On	21	12	2	35
No. of Pairings	39	21	2	62
Diverts	10	3		13
Intercept Attempts	29	18	2	49
МІ	13	3		16
MA-NK PK	3	2		5
First Kill	11	12	2	25
Total Kills	13	14	2	29

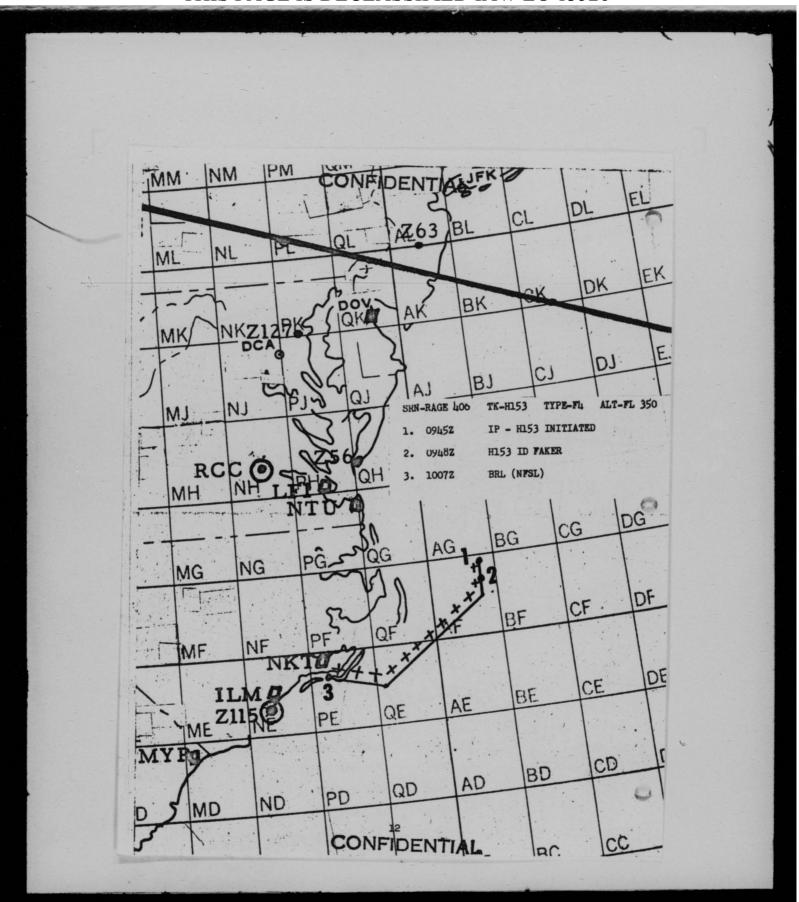
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# CONFIDENTIAL INTERCEPTOR SQUADRON SUMMARY CALL SIGN SORTIES MA MA-NK MI P S 1 AEF LFI 3 FS 1 Target Unsafe NBC 1 FS 1 ACP JAX 1 Unsafe Target PAM HST 2 TOTALS 5 16 19 15 CONFIDENTIAL

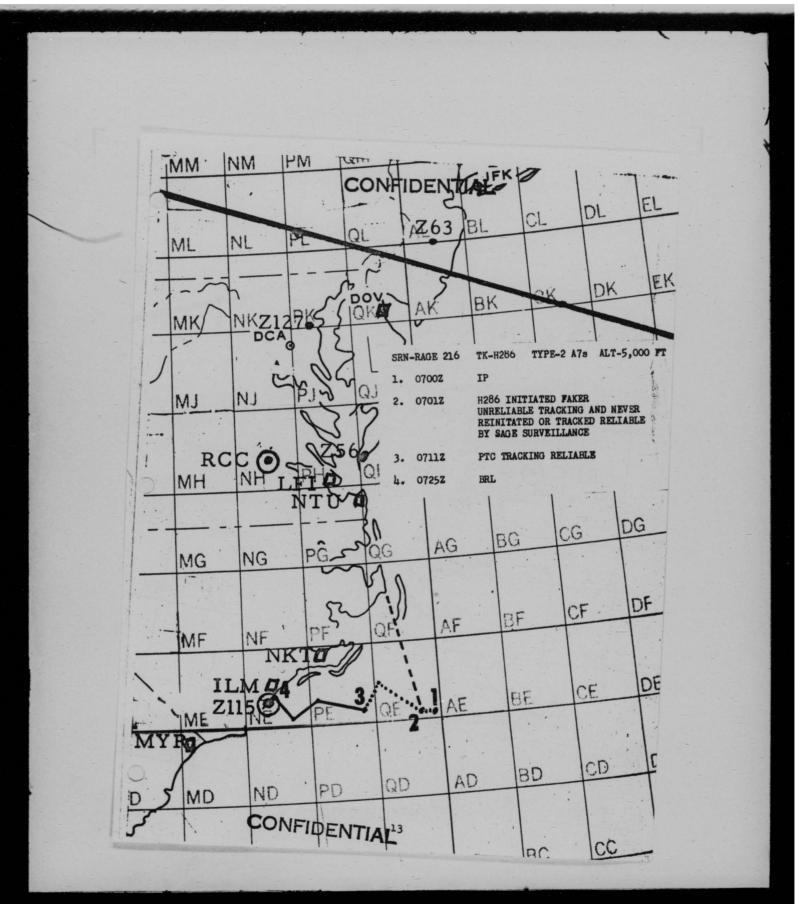
#### UNCLASSIFIED PART III TROUBLE TRACKS TRACK PAGE RCC RAGE 405/H154 11 RAGE 406/H153 12 RAGE 216/1286 13 RAGE 220/H024 14 RAGE 316/ 15 RAGE 210/H288 16 RAGE 218/H025 17 RAGE 222/H282 18 RAGE 422/H177 19 RAGE 423/H177 20 TYNDALL RAGE 227/H420 21 KEY WEST RAGE 237/H406 22 RAGE 429/H162 23 RAGE 255/H530 24 RAGE 257/H535 25 RAGE 256/H470 26 LEGEND RELIABLE PTC TRACKING UNRELIABLE PTC TRACKING. . . RELIABLE ADCF TRACKING / / / / / / / UNRELIABLE ADOF TRACKING 10 UNCLASSIFIED



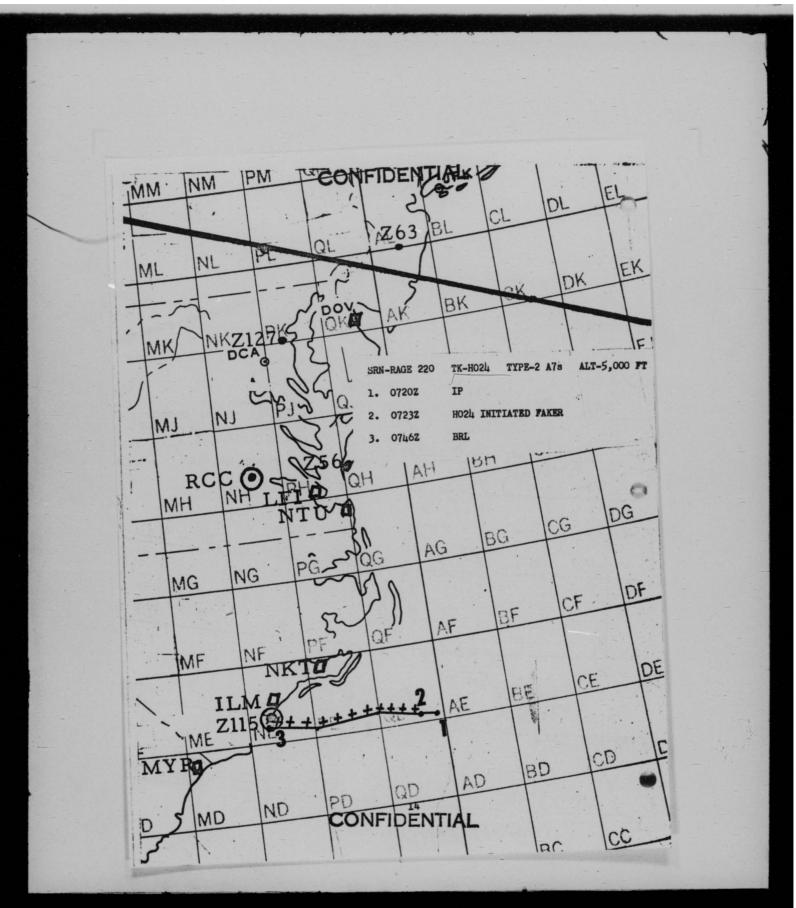
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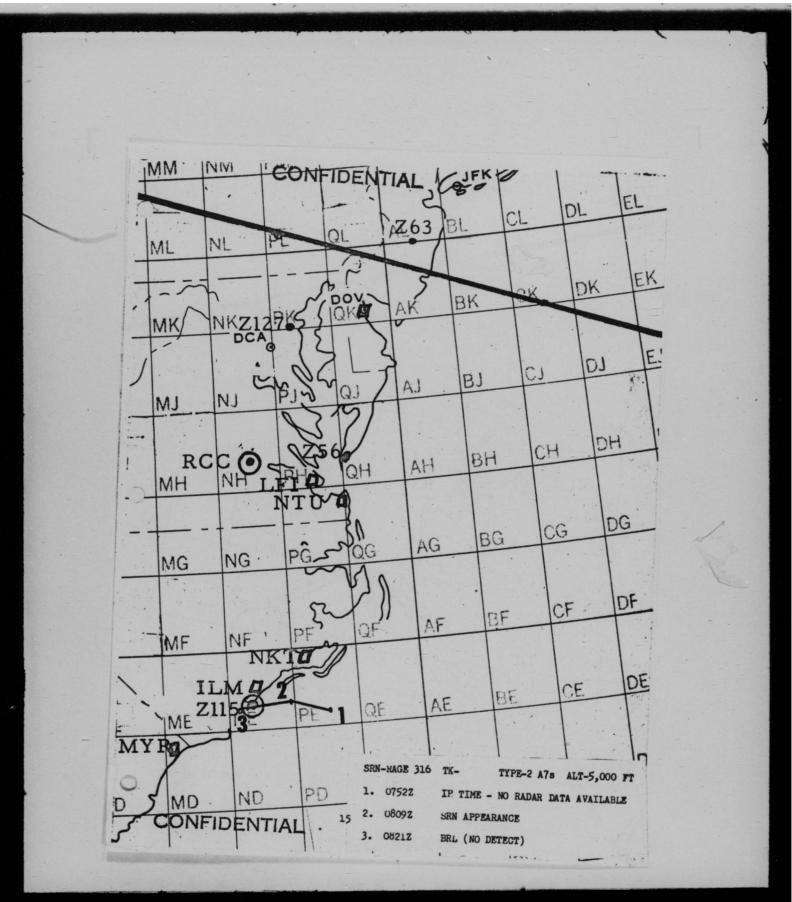
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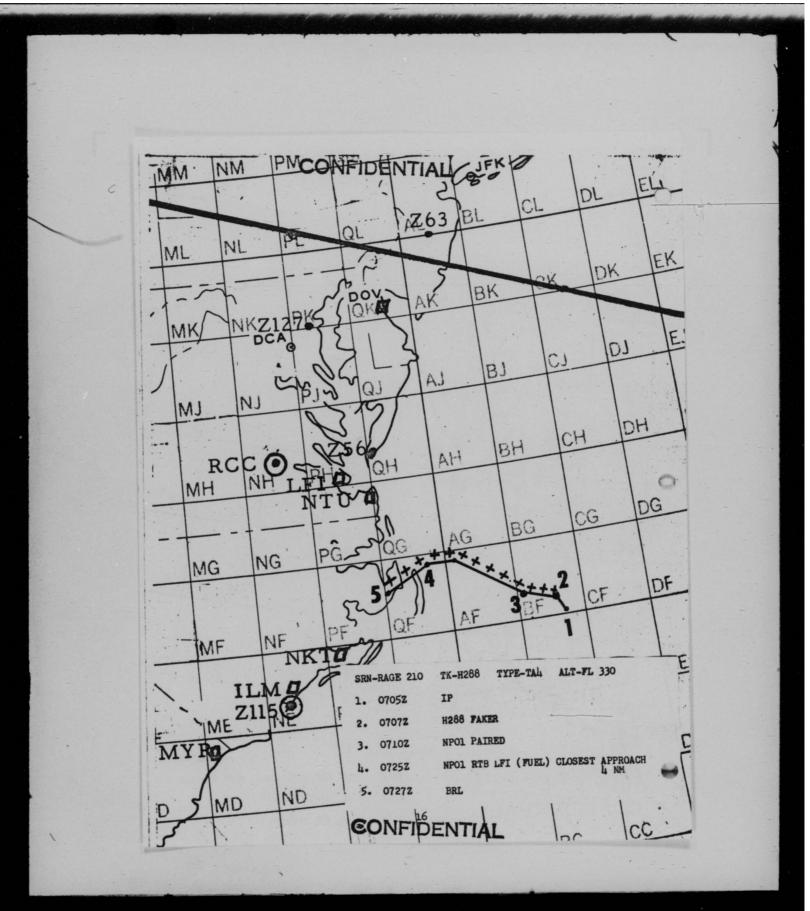
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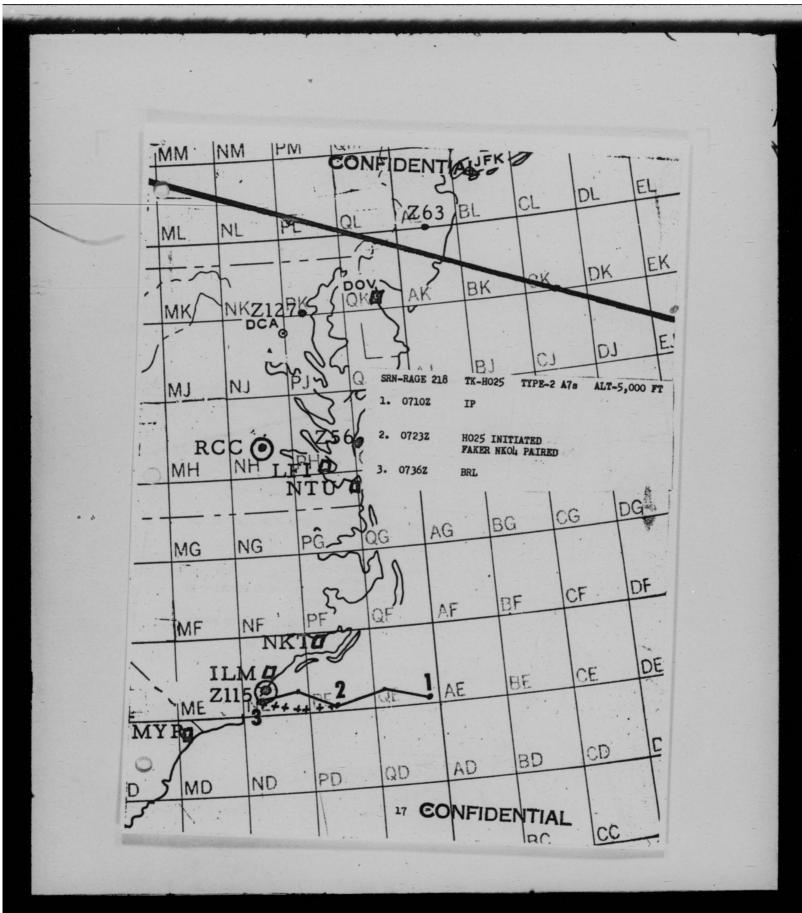
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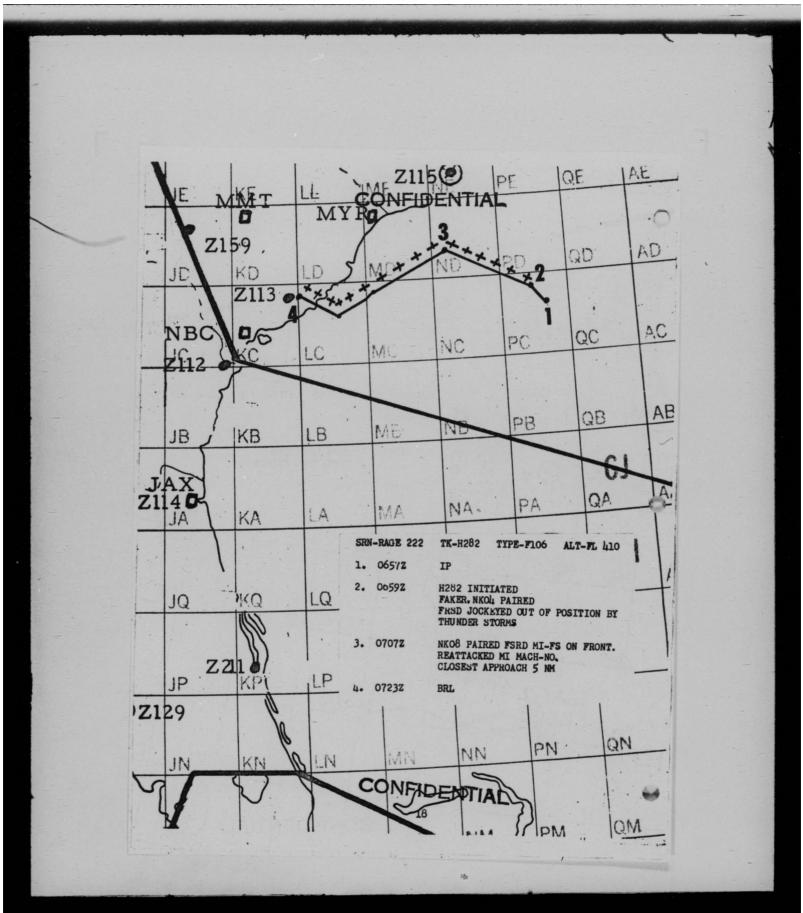
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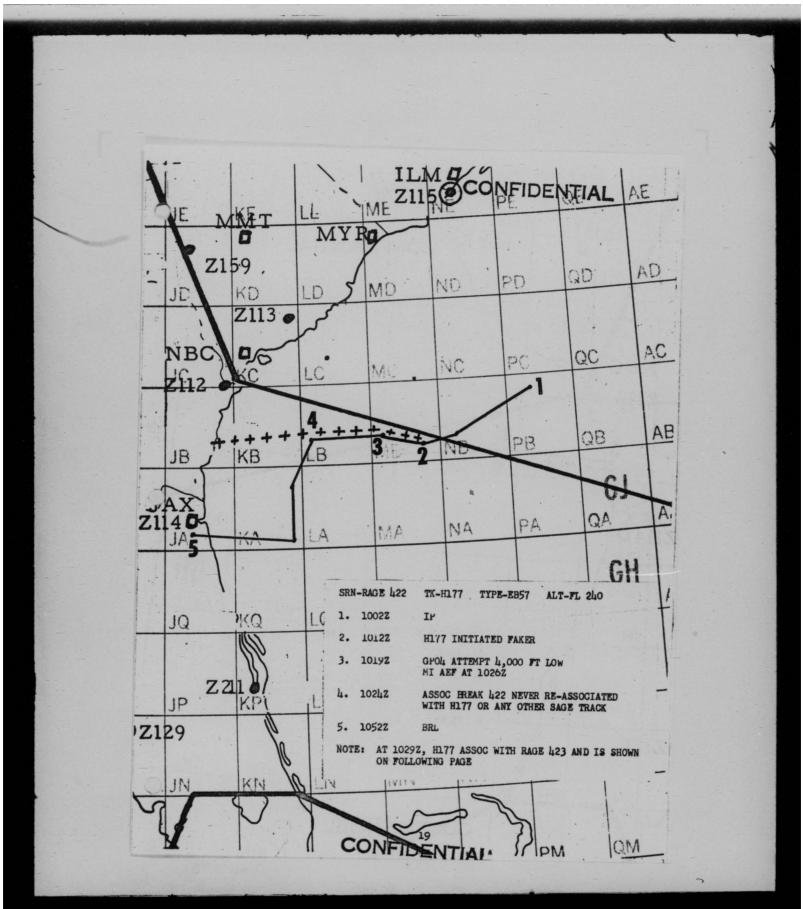
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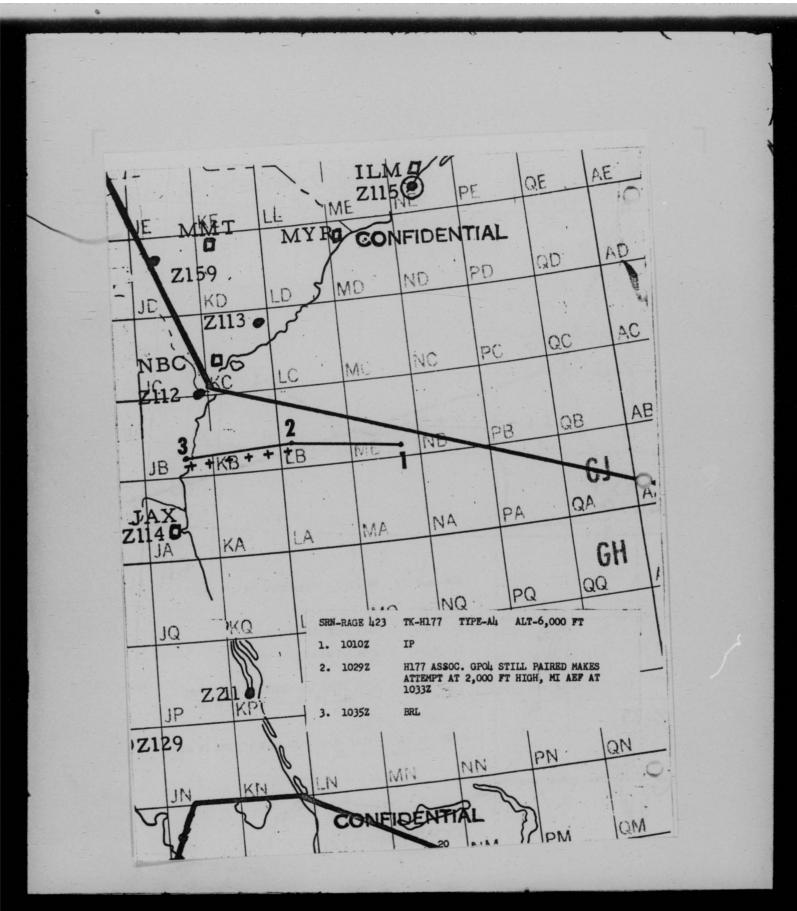
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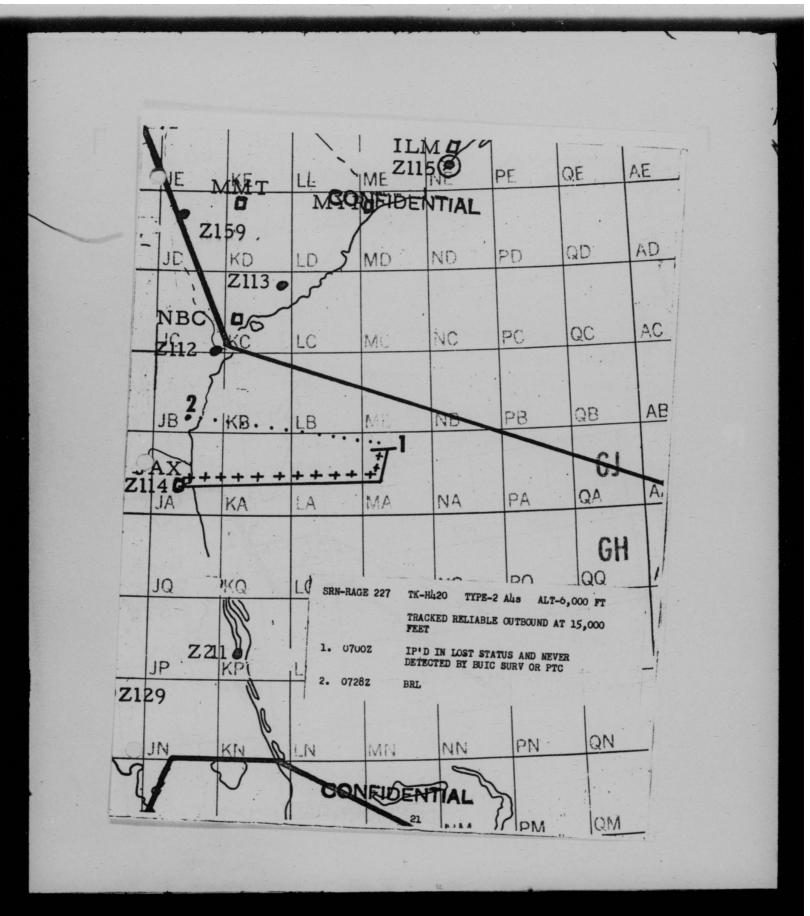
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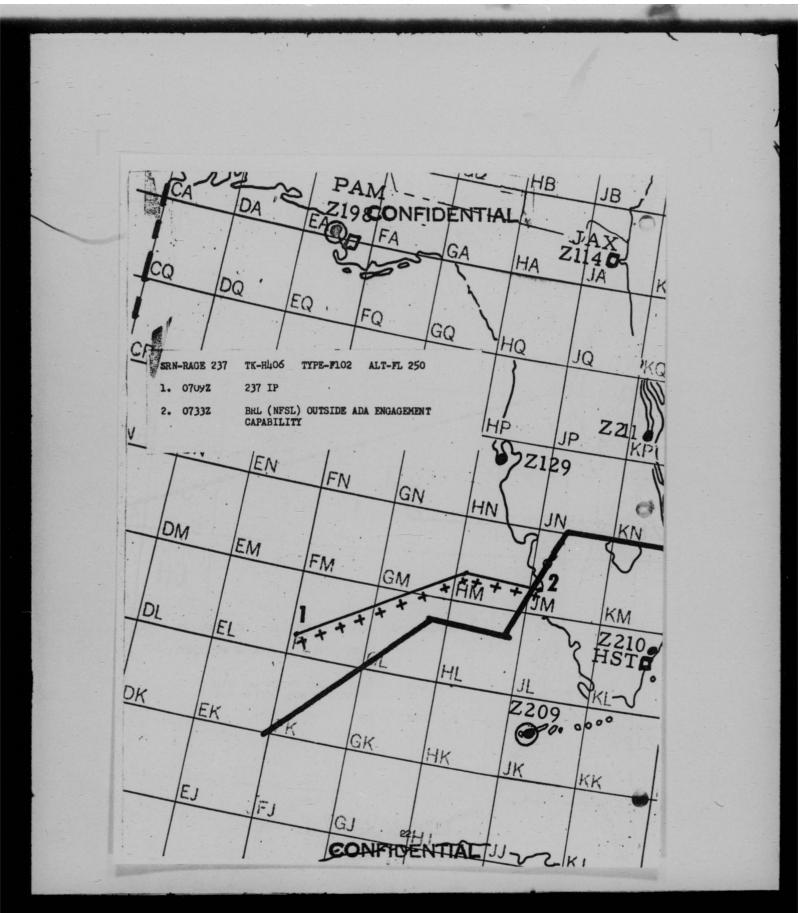
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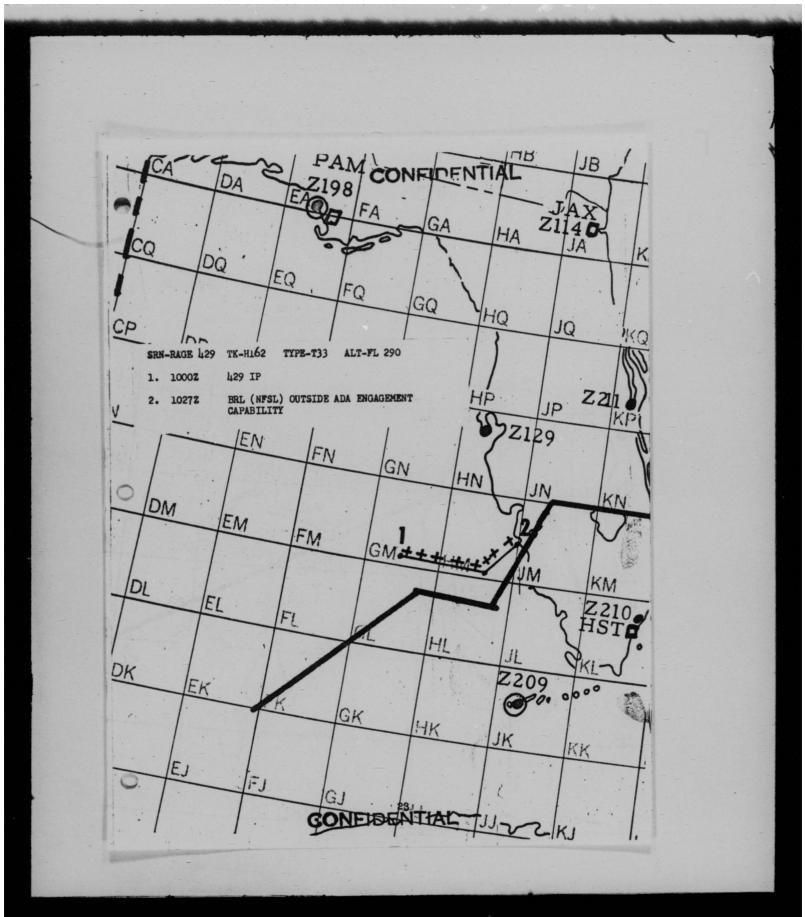
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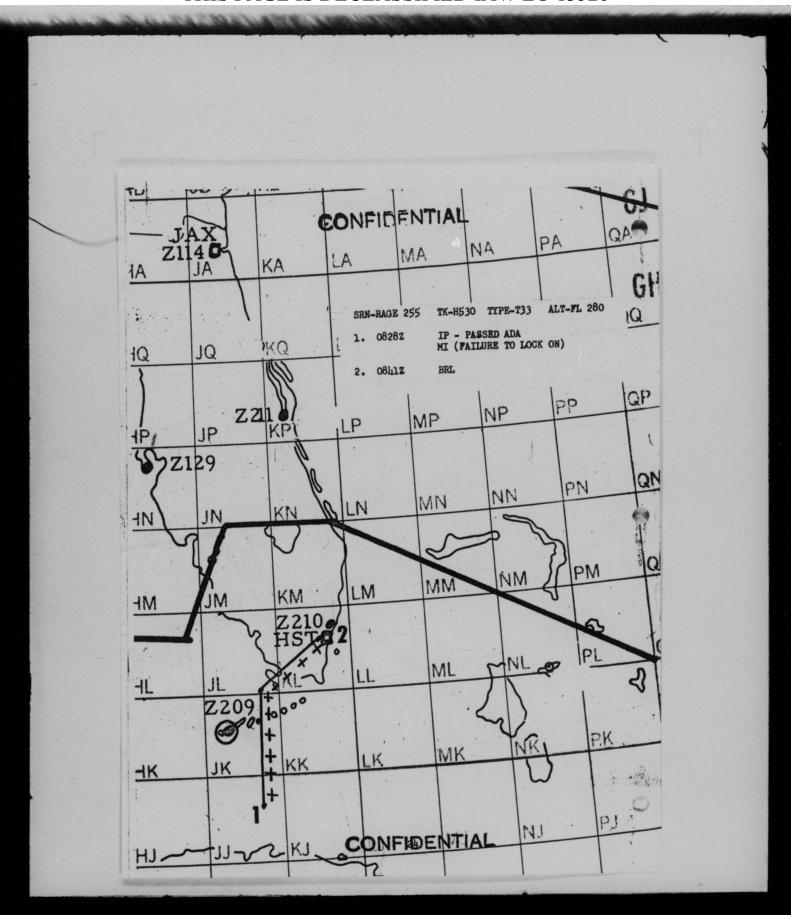
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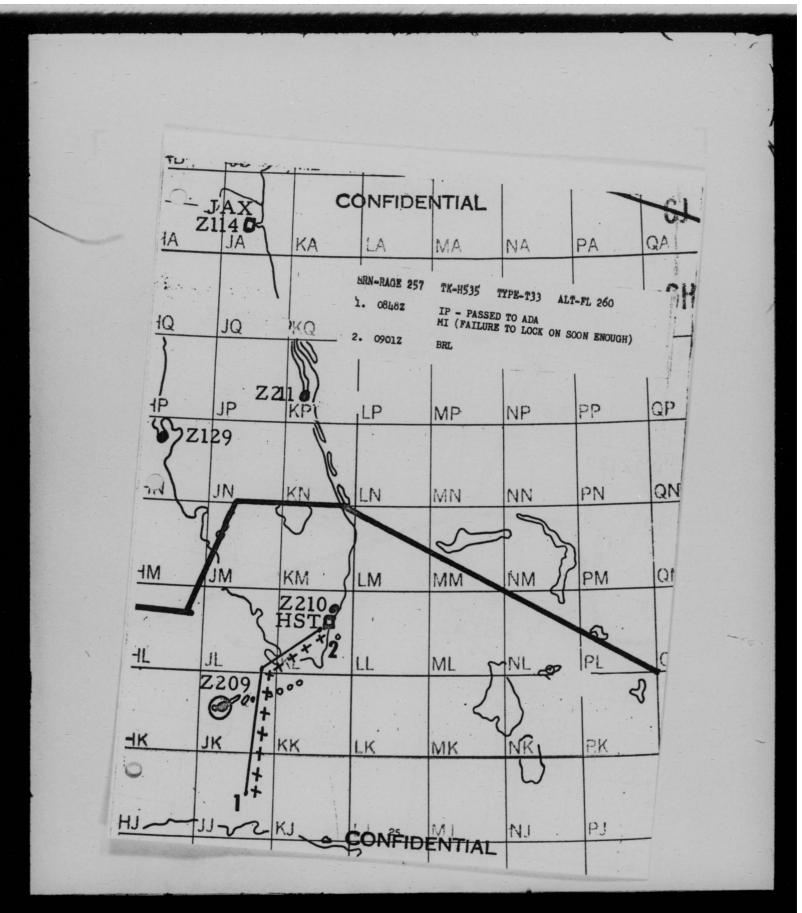
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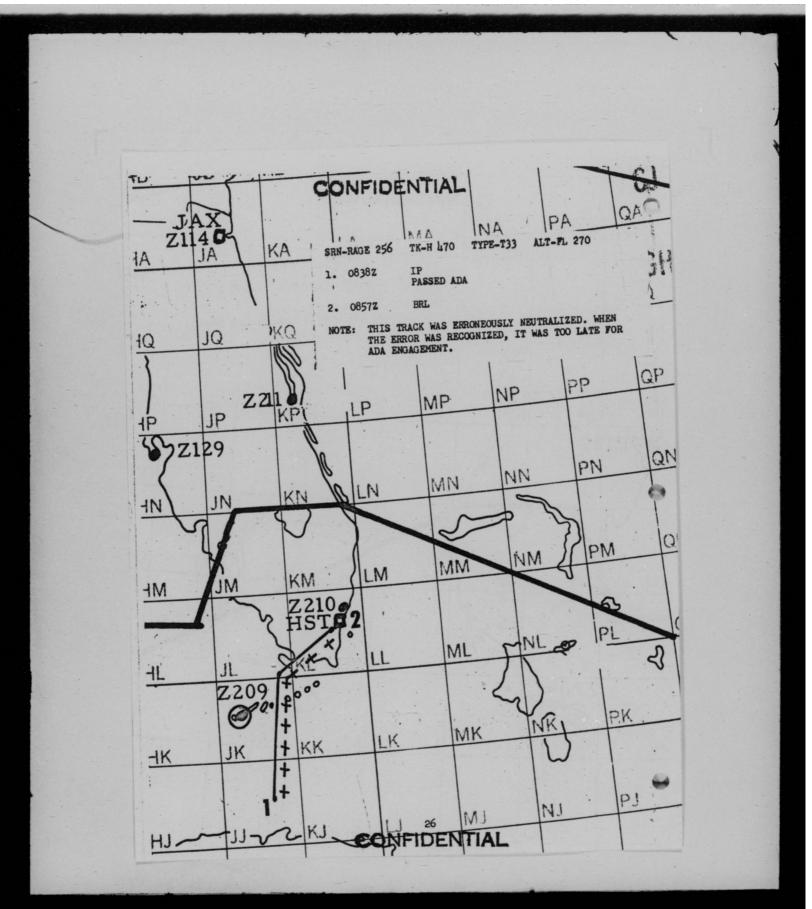
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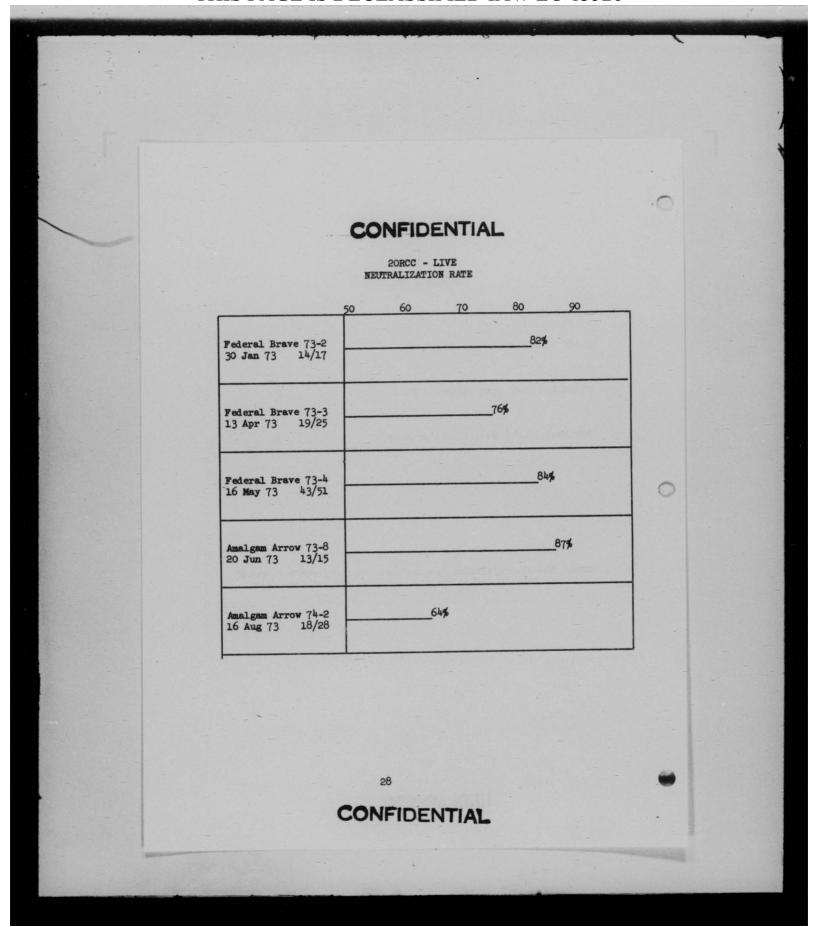


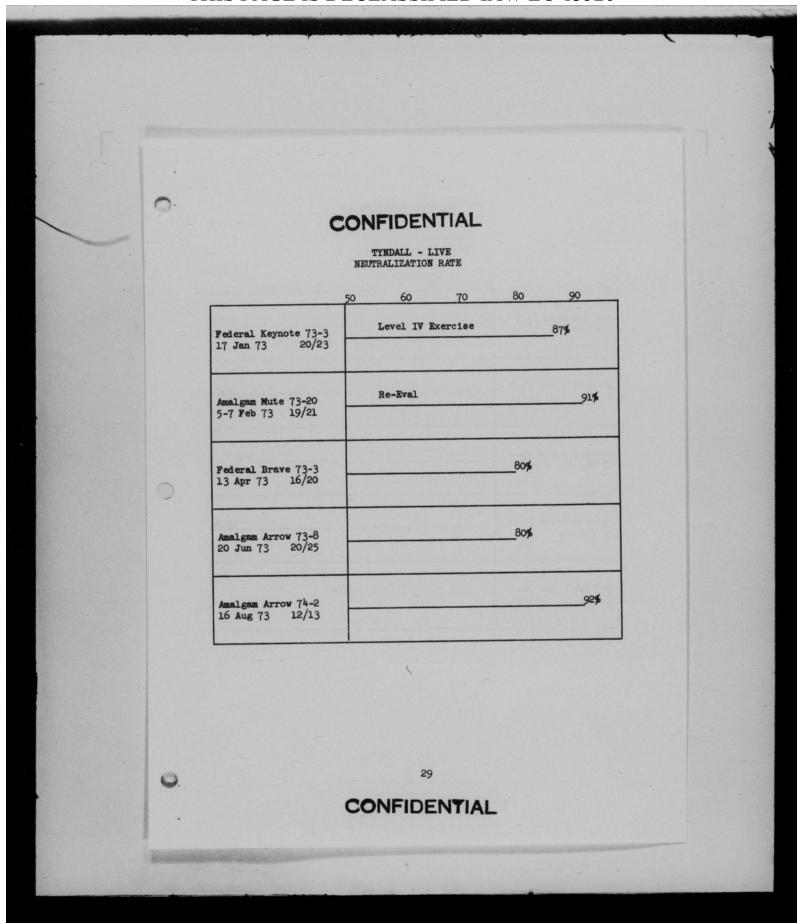
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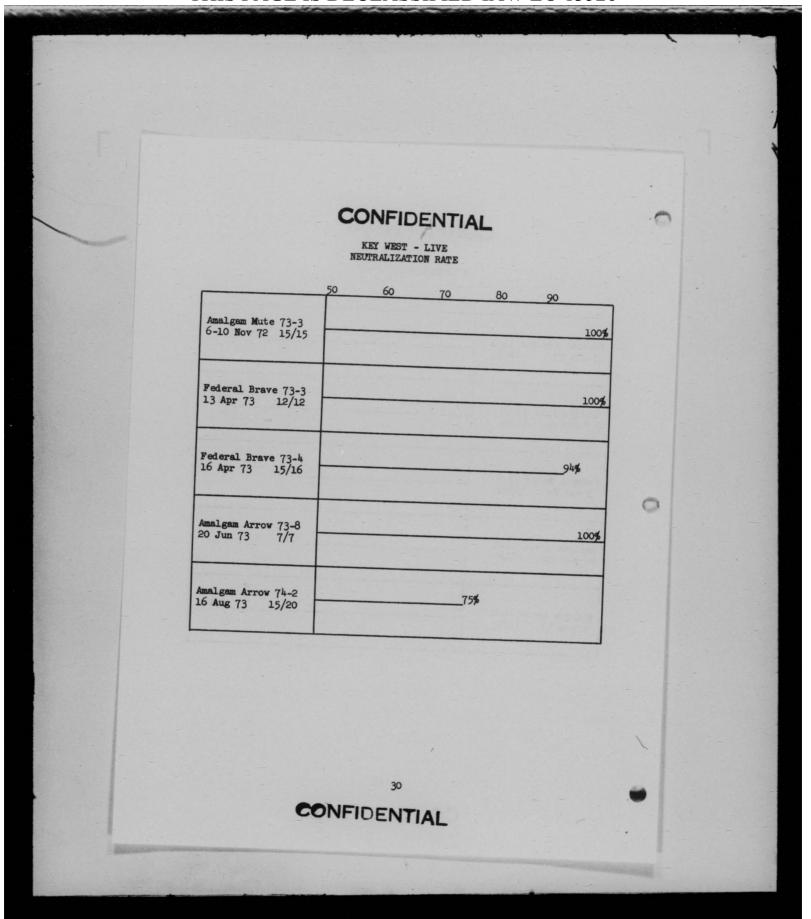


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# **UNCLASSIFIED** PART IV EXERCISE TREND CHARTS Page 20RCC - Live Neutralization Rate 28 Tyndall - Live Neutralization Rate 29 Key West - Live Neutralization Rate 30 NOTE: The Neutralization Rate is based on the first kill prior to BRL/EEP either by interceptor or ADA, as appropriate. 27 UNCLASSIFIED







PART

PROBLEM ACTION REPORTS
(Based on Commander's Summaries)

1. (C) Region Control Center.

Problem: A flush was issued at approximately 0604Z. Ten MG and 6 NP aircraft were to be flushed. The first MG was off at 0620Z and the last was off at 0650Z. The first NP was off at 0622Z, and the last one was off at 0651Z. The flush was not successful for several reasons. The flush was not passed in a timely manner to Norfolk approach or to Langley tower. Langley tower did not assign the flush orbit points as required.

DO OPR Action: There are three factors that caused a delay in flush aircraft becoming airborne. The Weapons Director and Tech were working their first live exercise and failed to notify Washington Center of receipt of the flush as required by checklist. The FIS ODC at Langley failed to notify Norfolk approach and Langley tower as required by the current letter of agreement. Further, the ODC does not have the proper telephone equipment to pass this information. Exercise target aircraft were on the runway ready for take off. This further delayed the flush. This is an exercise design discrepancy. A review of the current letters of agreements to insure compatibility with communication equipment is being conducted.

NREA Comment: One target aircraft was scheduled to take off from Langley during the liability period for the flush. It took off at 0615Z. A second target aircraft scheduled to take off at 0628Z became involved when the flush was delayed; however, it did not take off until the last interceptor was flushed. Exercise and Analysis Directorate will coordinate with Headquarters NORAD in future NORAD sponsored exercises to insure that faker take off times are not in conflict with the flush.

2. (U) Tyndall BNCC.

a. Problem: Fertile Weapons Team, controlling above Sector I and Sector II boundary line, was not lateral telling interceptors or faker tracks to Dunmore controlling below the line, resulting in confusion and potential flight safety problems. Recommended solution: Have weapon teams lateral tell all tracks approaching or entering adjacent air space.

DO OPR Action: RCC will insure that overlap tellers and weapons teams are briefed to tell all tracks to Tyndall as required during 2B exercises, with special attention to tracks approaching Sector II.

b.  $\underline{Problem}$ : Two PTC faker monitors sharing a single PTC frequency continues to pose serious problems. Recommended solution: Assign each PTC team, Gulf and Atlantic, a separate frequency.

DO OPR Action: Assignment of two separate frequencies for Tyndall PTC is a serious problem. However, technical limitations prevent using two PTC frequencies at the TBNCC unless the number of active WCs is reduced by one. DOK is aware of the problem and is researching panel patching to allow 4 WCs and 2 FMs at Tyndall, all to have separate frequencies.

### 3. (C)(U) Key West MNCC:

a. (U) <u>Problem</u>: The exercise did not provide adequate training for weapons, surveillance or ADA personnel. Many faker routes were designed as "pop-up" tracks with extremely short distances between IP-BRL. However, target ALTRVs were inconsistent with pop-up criteria; i.e., high altitude (26,000-28,000).

NREA OPR Action: These targets were not necessarily designed as "pop-up" targets even though their target run was of short duration. In order to provide the maximum number of targets for HAWK batteries with available aircraft, these aircraft were flown at their most economical altitude. Had they been flown at a lower altitude, fewer targets would have been realized.

b. (U) Problem: Two faker routes had BRL over water with no specific target and were unrealistic.

NREA OPR Action: These targets were designed to stress battle management between Key West MNCC and Tyndall BNCC. Due to this design, the aircraft did not have sufficient range to target on the mainland and recover Key West NAS. They were not targeted against Key West due to a FAA preference of not targeting and recovering at the same location when flying in a high altitude strata.

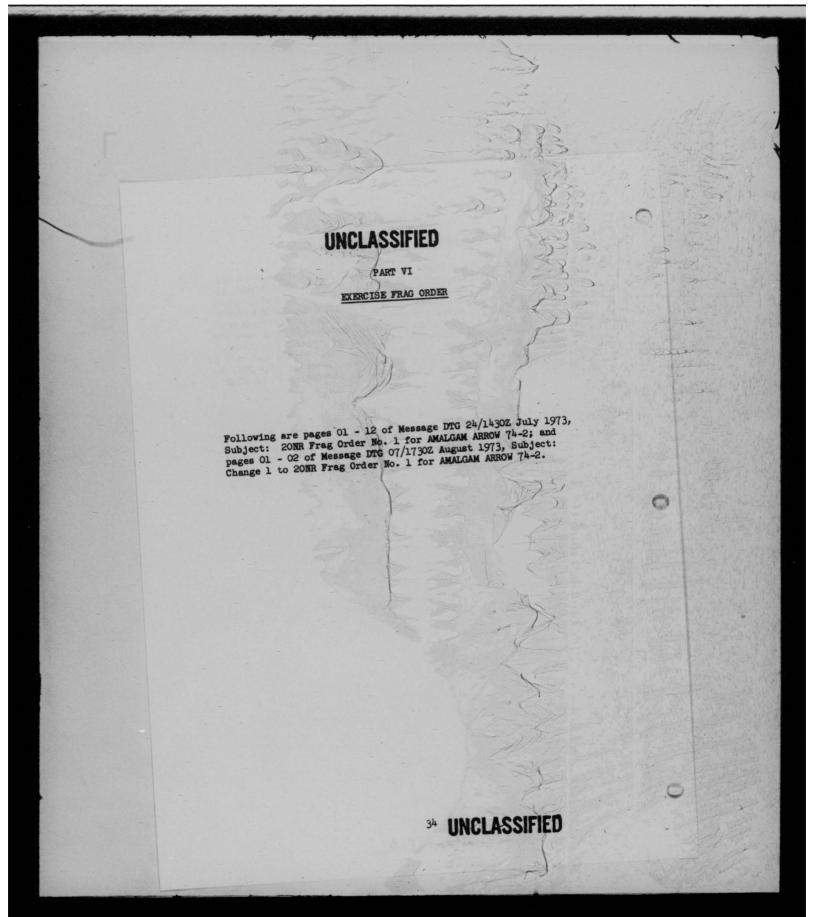
c. (C) <u>Problem</u>: Voice formats passed by 20th were, for the most part, transmitted approximately 2 minutes later than the DTG. This resulted in backlog of formats, interruptions by COC/ALCOP and many retransmissions for corrections. Several actions were delayed awaiting corrections and retransmissions.

DO OPR Action: Key West statement of the problem is exactly right, and the results are exactly as they say. During this exercise, the ALCOP issued the formats. The ALCOP does not at this time have the capability to reach "all weapons" as the NCOC can. As a result, in the RCC we had to receive the format on PVAS and copy it fully before we could pass it to subordinate units on the weapons circuit. Two minute delay is about as good as we can do. It takes 35-40 seconds to receive

32

and copy a format from the PVAS loop. Then we must bring up the WAS loop, losing a few seconds, and then retransmit the entire format to the 20NR units on the loop, which takes another 35-40 seconds. Given errorless copying and retransmission, the delay approaches 2 minutes to the receiving unit. Given any error or request for retransmission, the delay will be at least 2 minutes. NORAD ALCOP will soon have WAS capability, however, and this problem should not recur. For formats initiated and issued by 20NR, the format team will prepare and hold at immediate readiness formats likely to be needed, lacking only DTG, so in the future there should be little delay in passing these to 20NR units.

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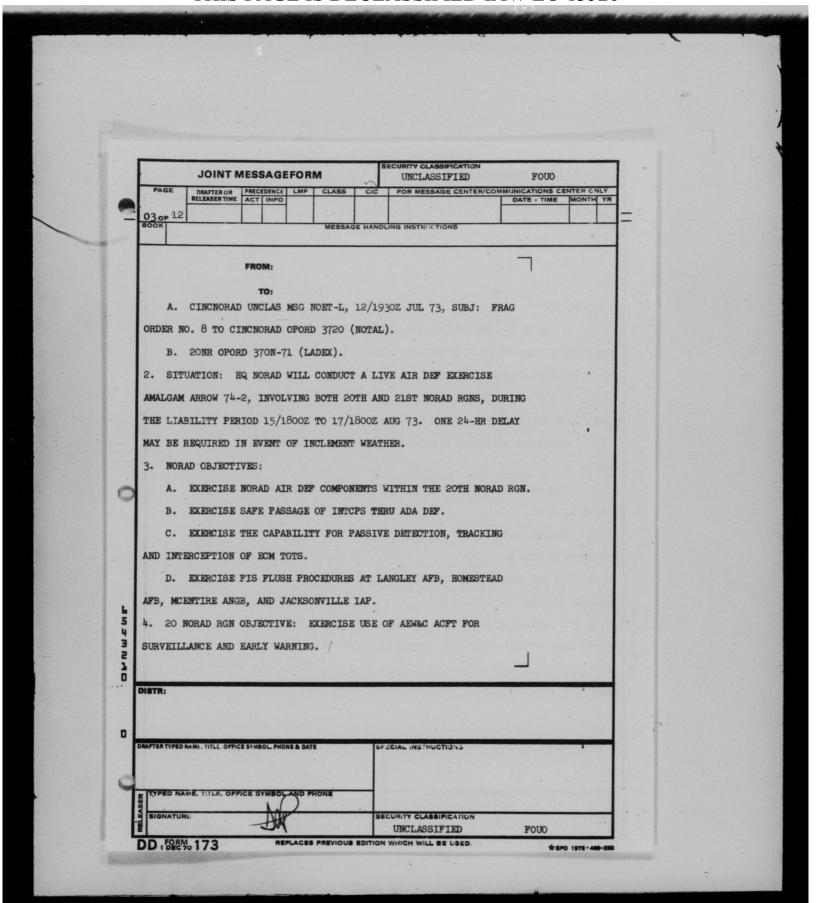


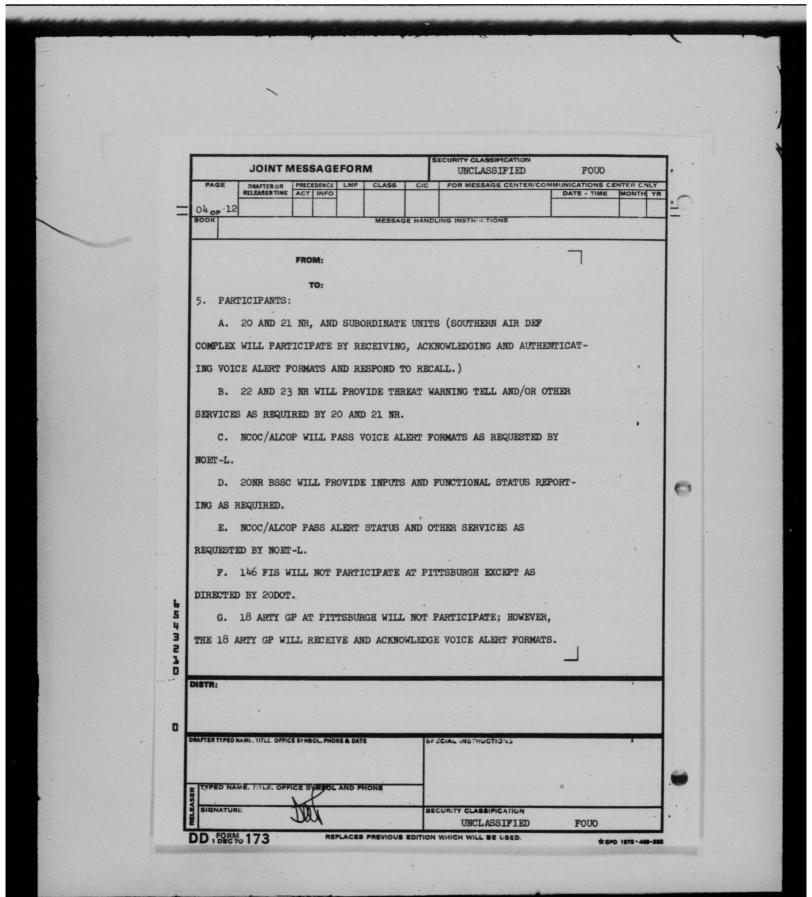
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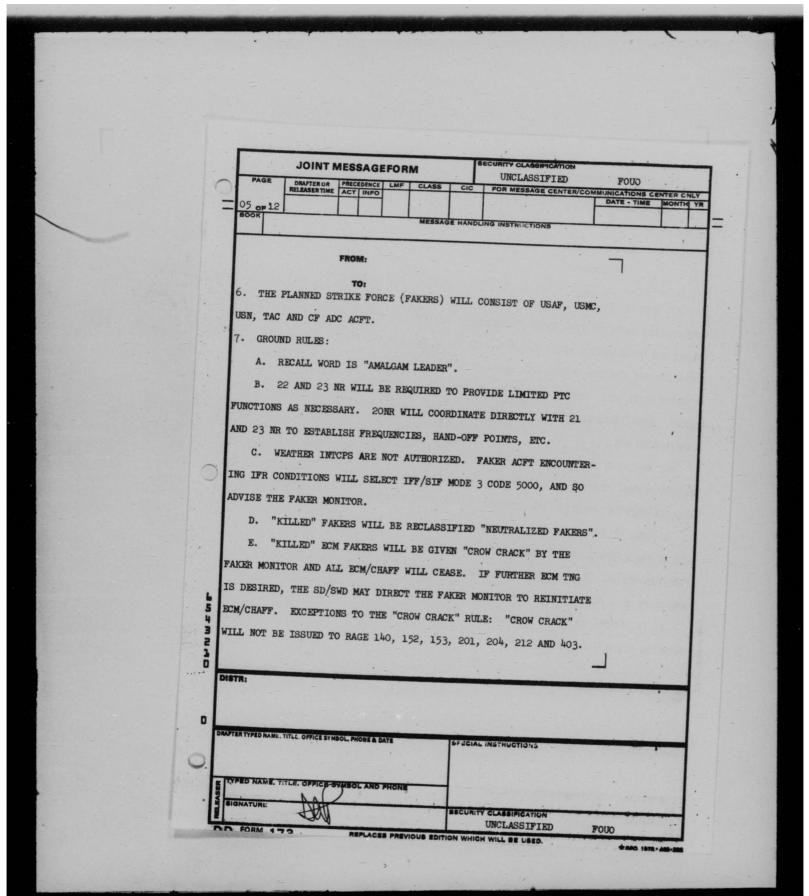
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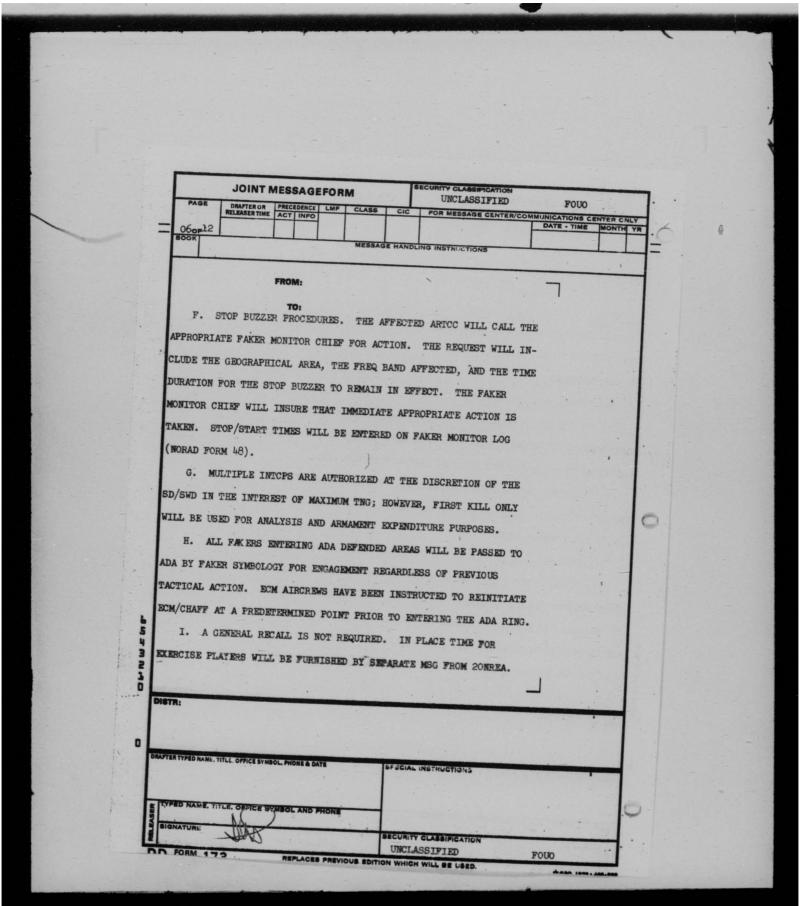
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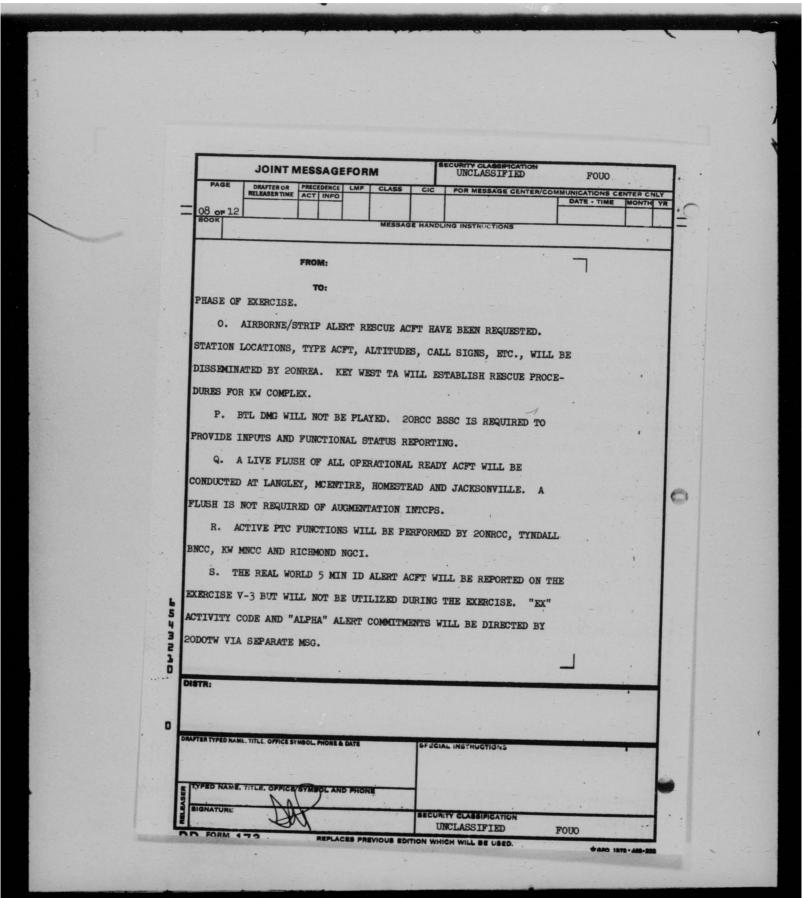








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L. ALL NIKE/HERCULES FIRE UNITS W	ILL OPERATE WITH THE FOLLOW-	
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U. FAKERS FLYING IN CLOSE	FORMATION WILL BE CONSIDERED AS ONE
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V. 20NR WILL OPERATE IN LE	VELS 2B AND 2A.
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A. NORAD REQUIREMENTS - 1 C	CY OF FOLLOWING RPTS WILL BE MAILED
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(1) RGN (CC) REQUIREMEN	TS WILL BE BRIEFED SEPARATELY BY
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	(2) 20RCC WILL SUBMIT NORAD FORMS 48 AND 49, WD LOGS, DE-
	BRIEFED IND LOGS, AND CMDRS SUMMARY RPTS TO 20NREA IAW 20NR OPORD  370N-71.
	(3) TBNCC AND KWMNCC WILL SUBMIT INFO REQUIRED BY ADCR 50-15 TO 20ADIV/DOCT ASAP BUT NLT 12 HRS AFTER FADEOUT. EACH WILL
	SUBMIT NORAD FMS 48, 49 AND CMDRS SUMMARY RPTS, AS REQUIRED BY 20
	NR OPORD 370N-71. SUBMIT CALL SIGNS AND TRACK NUMBERS OF ALL
	TROUBLE TRACKS WITH BRIEF SUMMARY OF EVENTS THAT LED TO BRL.
0	ADDITIONALLY, TENCC WILL SUBMIT A LEGIBLE CY OF BUIC DATA REDUC-
	TION SYSTEM (BARS) COMPUTER PRINTOUT IAW PARA 2, APPENDIX 4,
	ANNEX E, 20NR OPORD 370N-71.
	(4) PARTICIPATING FTR INTCP SQDNS WILL SUBMIT DEBRIEFED
	NORAD FM 35 IAW 20NR OPORD 370N-71 AND WILL ELECTRICALLY TRANSMIT
5	WITHIN 2 WORKING DAYS AFTER FADEOUT, COLUMNS C, G, H, I, P, Q, R  AND S EXTRACTED FROM FM 35 TO 20NREA.
3 2	(5) PARTICIPATING AADCPS WILL SUBMIT NORAD FM 16 IAW
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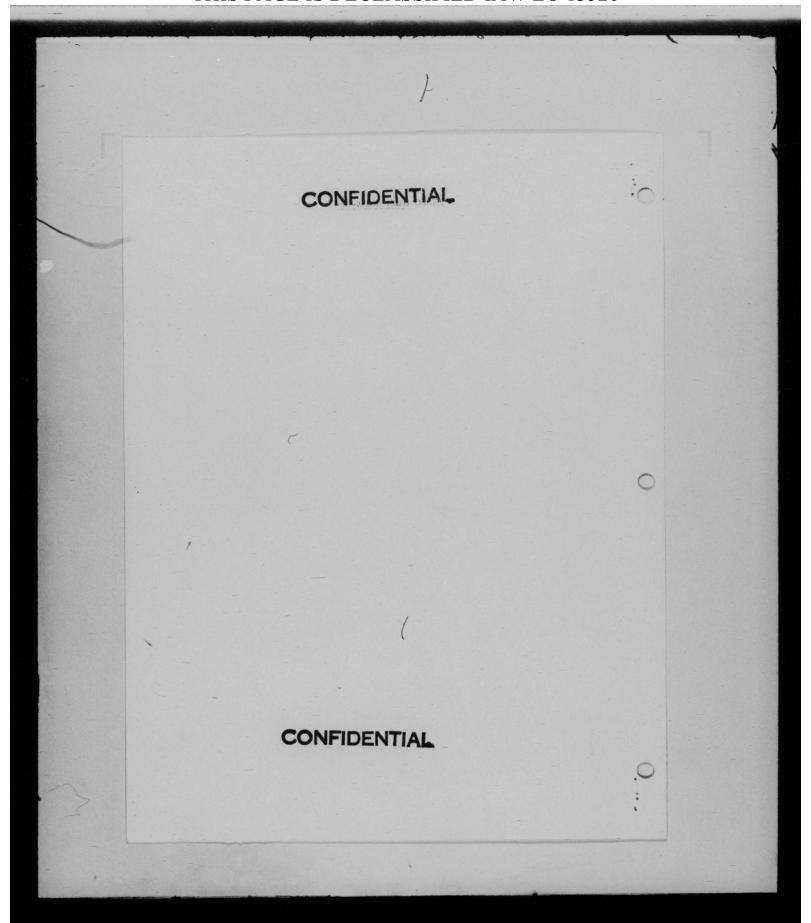
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	FM 16.					
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		MAJ C. E. NESBITT	701	772		
	NORAD INTEL	MAJ L.C. MARTING (ENT)	530-			
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	20NR PROJ OFF	LCDR F. A. HELLE	701			
		TSGT G. W. JOHNSON	701	770		
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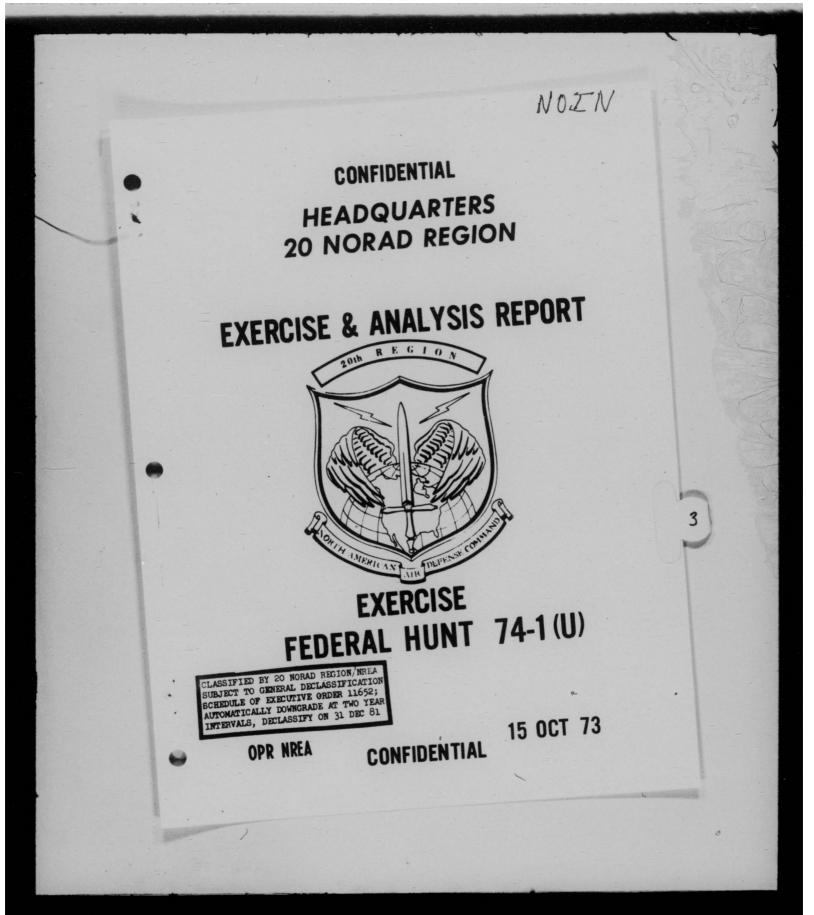
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		ALL AFB FLA/DO-X		
		ISHER AFS NC/DO-X		
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	ADWC TYMDALL			
		(AFRES) HOMESTEAD AFB FLA	/00	
		AS CHERRY POINT NC		
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		OLO/DOTSE/DOCCX		
		ARADCOM STEWART AFB MY/ADA	GC-P	
		HOUSTON FAA TEXAS/DOT		
		EW HANOVER CO APRT MC/OPS		
5		ANOKE RAPIDS AFS HC/DOT (M	AIL)	
3	1	OFORD AFS VA/DOT (MAIL)		
5	TOE RADROM SAY	VANNAH AFS GA/DOT (NAIL)	J .	
DISTRI				-
0	TITLE OFFICE SYMPOLIC PROMES BAYS			
FREDERICK	A. HELLE, LCDR, USN C/NREA/701/7 AUG 73	Crpeiac Instructions		
0	TLE. OFFICE SYMBOL AND PHONE			
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	FROM:			
215		PE CHARLES AFS VA/DOK (	MAIL)	
		KEN AFS SC/DOT (MAIL)	-	
		SAVANNAH AFS GA		
	UNCLAS FOUO 20MREA-L			
- 1-4	SUBJ: CHANGE 1 TO 20NR FRAG ORDER NO.	1 FOR ANALGAM ARROW 74	-2	
	REF: 20 HORAD RGN MSG DTG 24/1430Z JU	L 73, UNCLAS FOUD, SUB.	1	
-	20NR FRAG ORDER NO. 1 FOR AMALGA	M ARROW 74-2		
	1. CHANGE PARA 5A TO READ: "20NR AND	SUBORDINATE UNITS (SOUT	H-	
	ERN AIR DEF COMPLEX WILL PARTICIPATE BY	RECEIVING, ACKNOWLEDGI	NG .	
	AND AUTHENTICATING VOICE ALERT FORMATS.	) <b>*</b>		
	2. CHANGE PARA 71 TO READ: "A GENERAL	RECALL IS NOT RECUITED		
	IN PLACE TIME FOR EXERCISE PLAYERS IS 16			
	BRIEFINGS COMPLETE."	/		
	3. ADD PARA 8A(4) TO READ: "20NR FIS W	TII CIIDWIM WORLD TO		
6	35 TO MORAD IN ADDITION TO COPY SENT 20M	DEA "		
5 4	AMALGAN ARROW 74-2	na.		
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### PREFACE

This document consists of post exercise analysis information for FEDERAL HUNT 74-1, which was conducted on 18-20 September 1973.

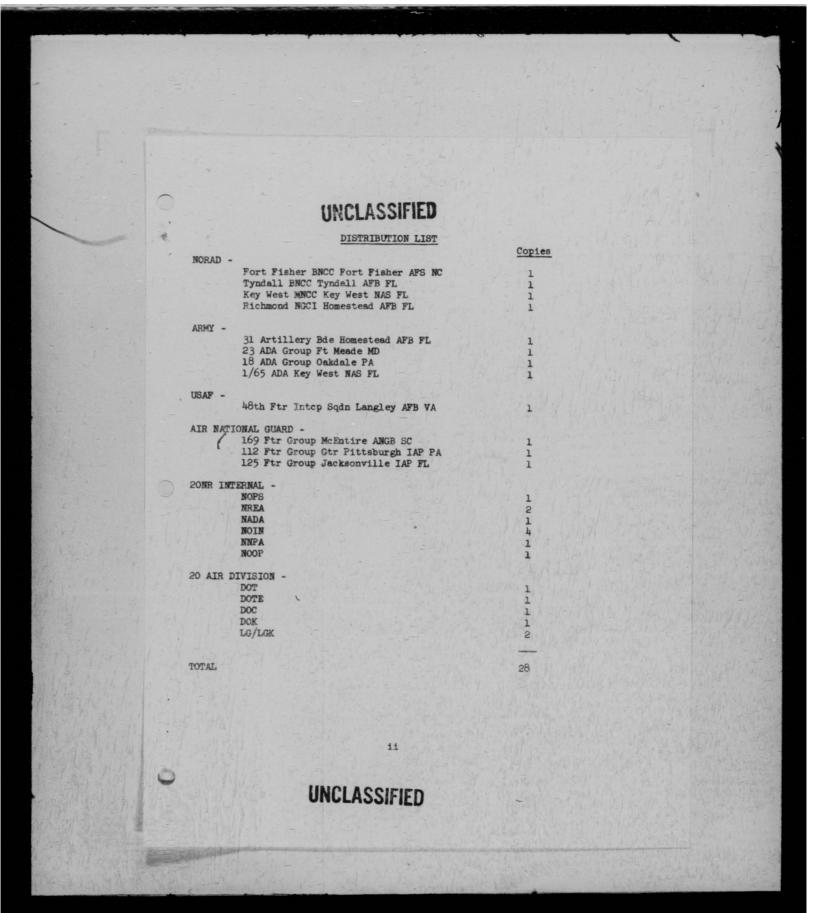
This report contains significant facts and statistics associated with the exercise. The primary purpose of this report is to determine if exercise objectives were met, analyze the training conducted, identify problem areas, and indicate where improvement is necessary.

Trouble tracks are summarized in Part III of this report. Subordinate units are encouraged to make a detailed analysis of specific factors noted in their areas of responsibility.

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THOMAS A. PAYNE, COLORED USA Deputy Commander

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# UNCLASSIFIED TABLE OF CONTENTS PAGE PREFACE 11 DISTRIBUTION LIST 111 TABLE OF CONTENTS PART I - Exercise Design and Objectives PART II - Mission Results PART III - Trouble Tracks PART IV - Synthetic Exercise Trend Charts PART V - Problem Action Reports PART VI - Exercise Frag Order 25 iii UNCLASSIFIED

PART I

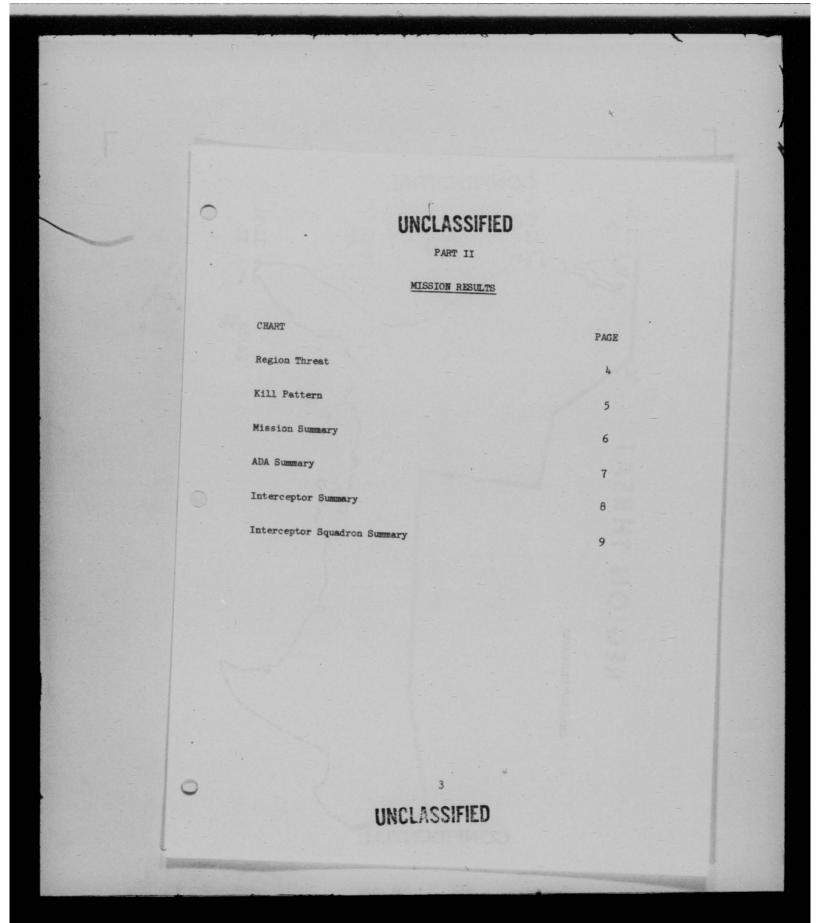
#### EXERCISE DESIGN AND OBJECTIVES

1. (U) Design: FEDERAL HUNT 74-1 was a multi-region Automated Systems Training Mission (ASTM) designed to exercise the NORAD system in a degraded and ECM environment. It consisted of both static and dynamic damage being inflicted by ICBMs, SLBMs, bombers, and ASMs. Static damage to the defensive forces was heavy in the pre-air battle phase to allow for reconstitution of the defensive capability. Random impacts were programmed throughout to preclude an all clear. Dynamic damage was primarily programmed to be inflicted by bombers and ASMs. For this region, BUIC did not participate in the air battle phase; however, TBNCC was thoroughly exercised as region ALCOP in the build-up phase.

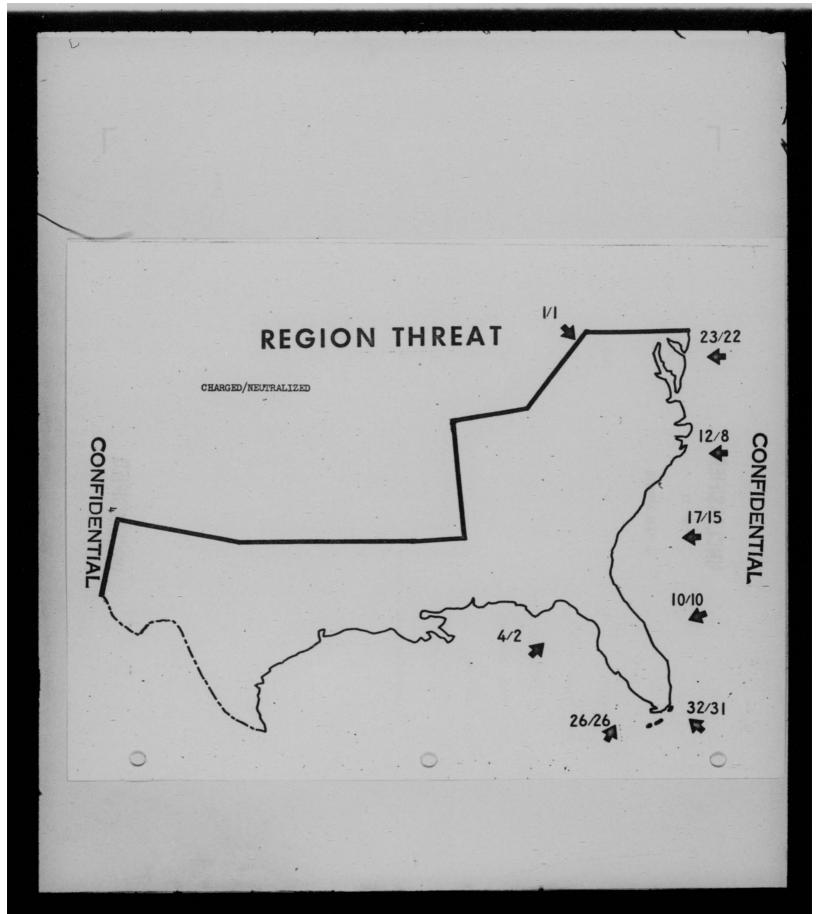
### 2. (C) Objectives:

- a. The exercise objectives were accomplished with good results. The first objective was to simulate battle situations to exercise battle staffs, BSSCs, operational crews, and support facilities. This objective was met. However, since many of the BSSC pre-air battle actions and coordinations were accomplished by the ALCOP, there was little value for the region BSSC training during the build-up phase. In addition, the exercise provided useful training for the RCC operational crews. Substantial number of personnel in training status received their first exposure to multi-region simulated air battles.
- b. The second objective was to exercise interaction between elements of NORAD in its current configuration. This objective was met. The NORAD ALCOP worked with 20th NORAD Region ALCOP during the build-up phase, and subsequently with the RCC during the battle phase. Coordination between the 20th and the 21st NORAD Region was exercised. They were able to kill three fakers with BRLs in our area of responsibility, and we did the same for them. In addition, a hijacked aircraft crossed the border between the two regions and there was inter-region coordination.
- c. The third objective was to exercise battle tactics under an ECM environment. This objective was met. The RCC reported that ECM caused target detection and tracking difficulty and proved benefical in training for surveillance and weapons personnel. ECM caused some problems in positioning interceptors and thoroughly exercised weapons, both from a supervisory and intercept control standpoint.

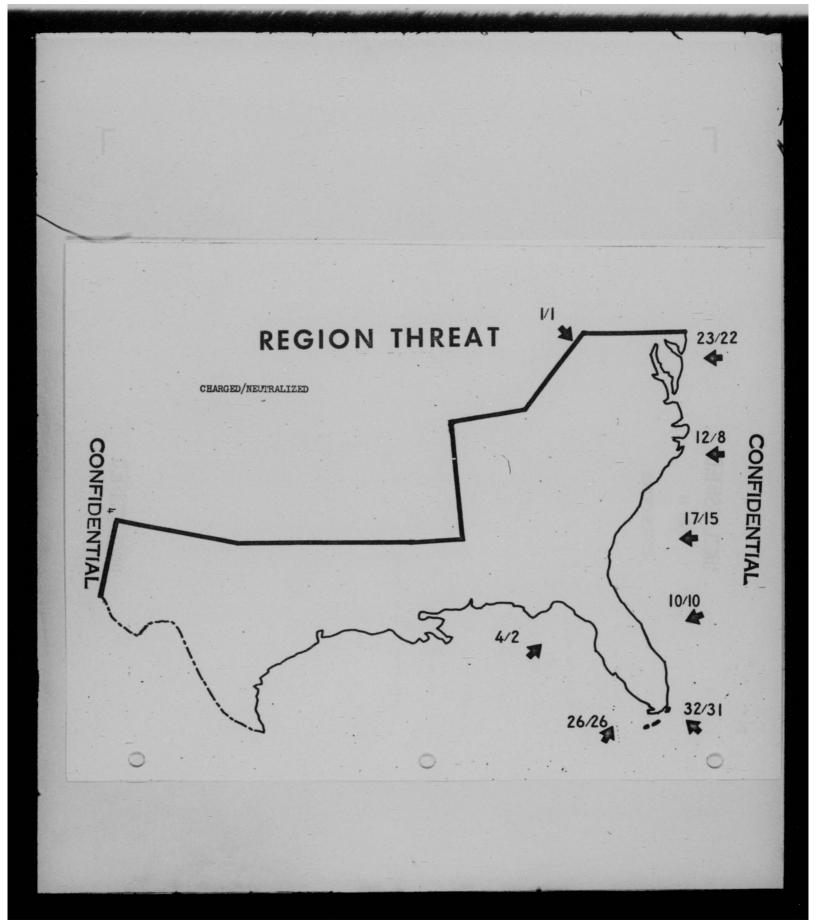
- d. The fourth objective was to effect coordination of weapons and forces, NUDET and battle damage reporting, and implementation of contingency plans for air defense. This objective, along with the fifth objective to exercise functional status reporting, was met and exercised by both the ALCOP and Headquarters, resulting in excellent training.
- e. The final objective was our region objective to exercise Tyndall BNCC as ALCOP. This objective was met. The Tyndall Commander's Summary Report stated that the exercise provided excellent training in the ALCOP configuration, and all applicable NORAD objectives were satisfactorily accomplished. However, some problems were encountered with failure of units to pass completion/attainment times. Details will be covered in the Commanders Summary portion of this document.



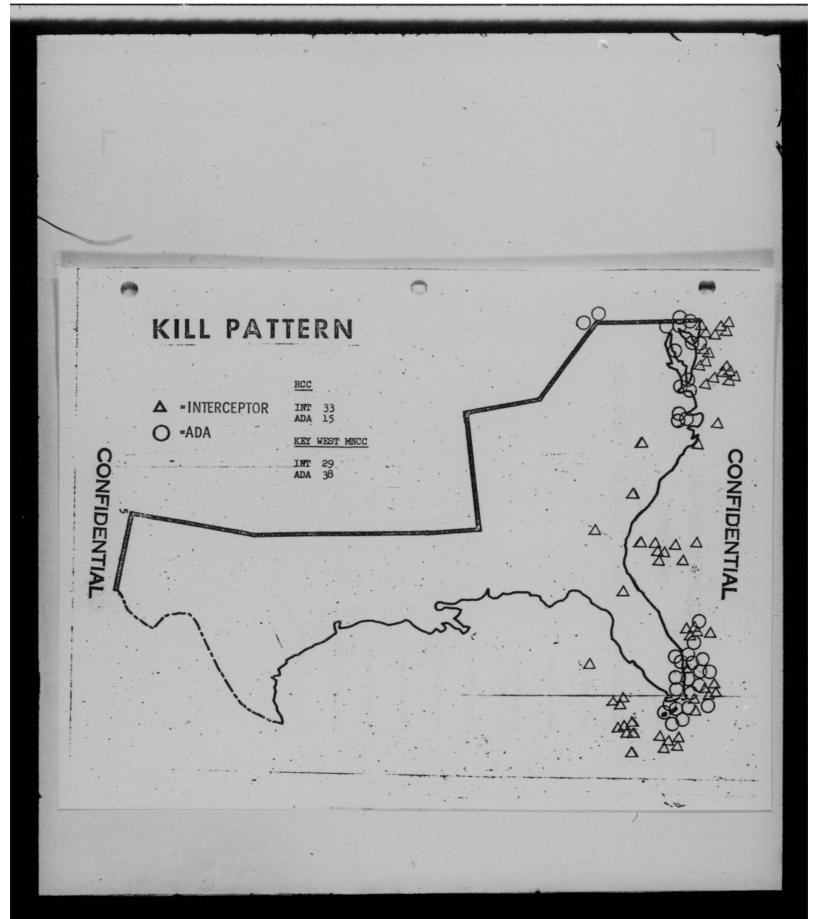
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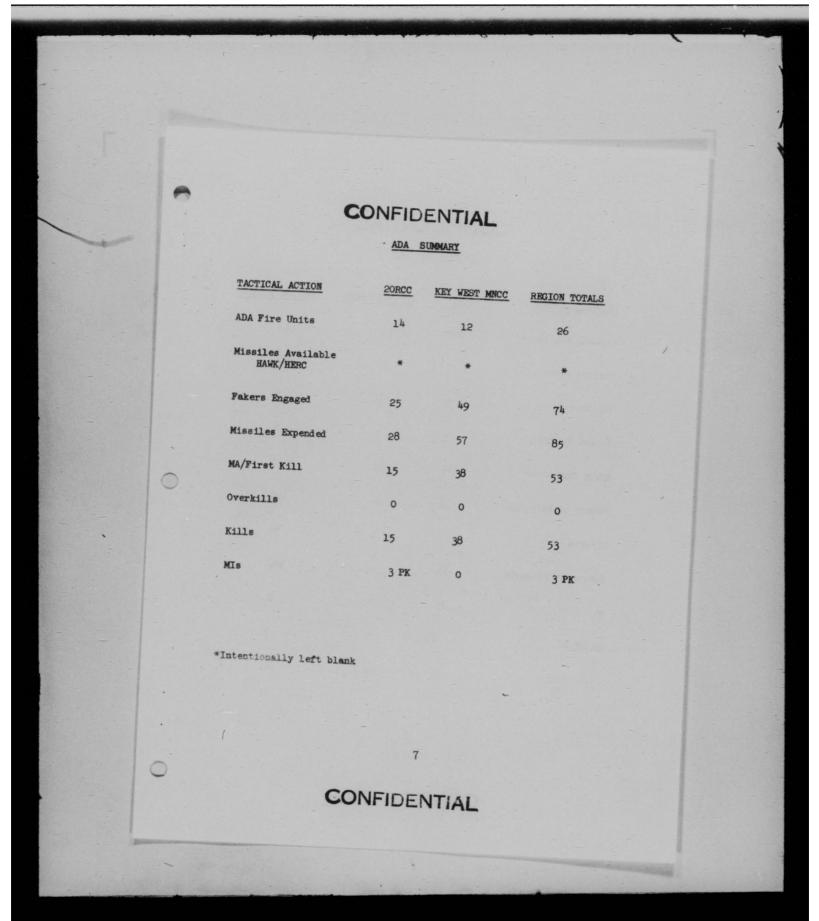
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### MISSION SUMMARY

TACTICAL ACTION	20RCC	KEY WEST MINCO	REGION TOTAL
Fakers Planned	56	68	124
Fakers Flown	57	68	125
Fakers Flown Not Charged	0	0	0
Fakers Detected	56	68	124
Fakers Identified	56	68	124
Fakers Charged	57	68	125
Fakers Engaged	54	68	122
Kills Prior to BRL	48	67	115
Neutralization Rate	84%	99%	92%

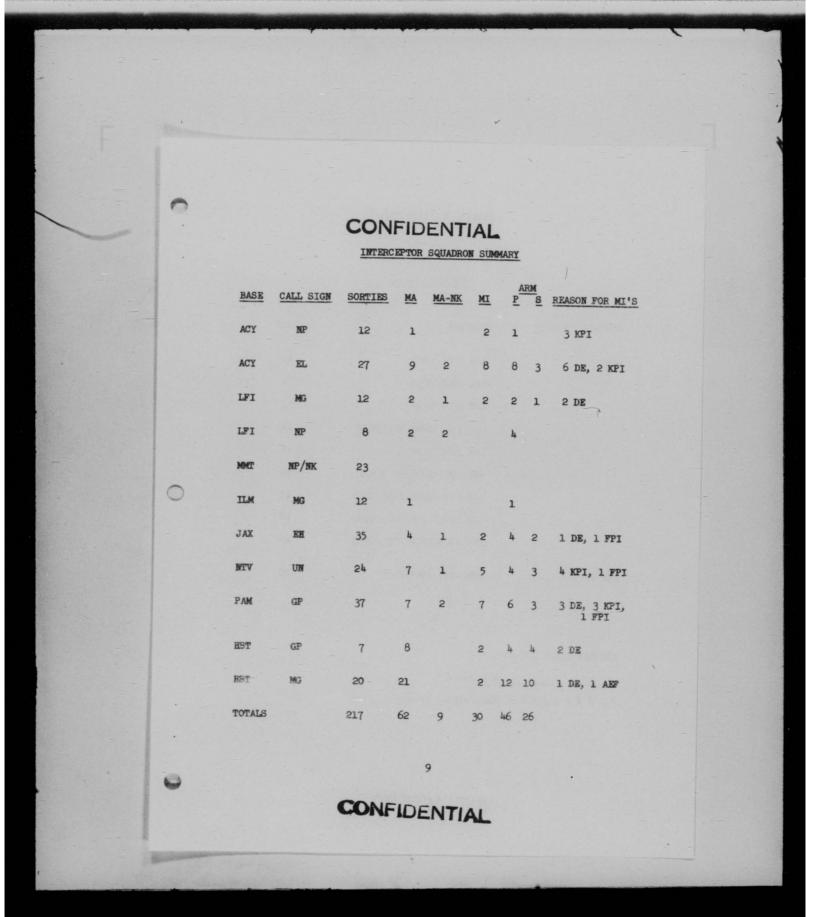


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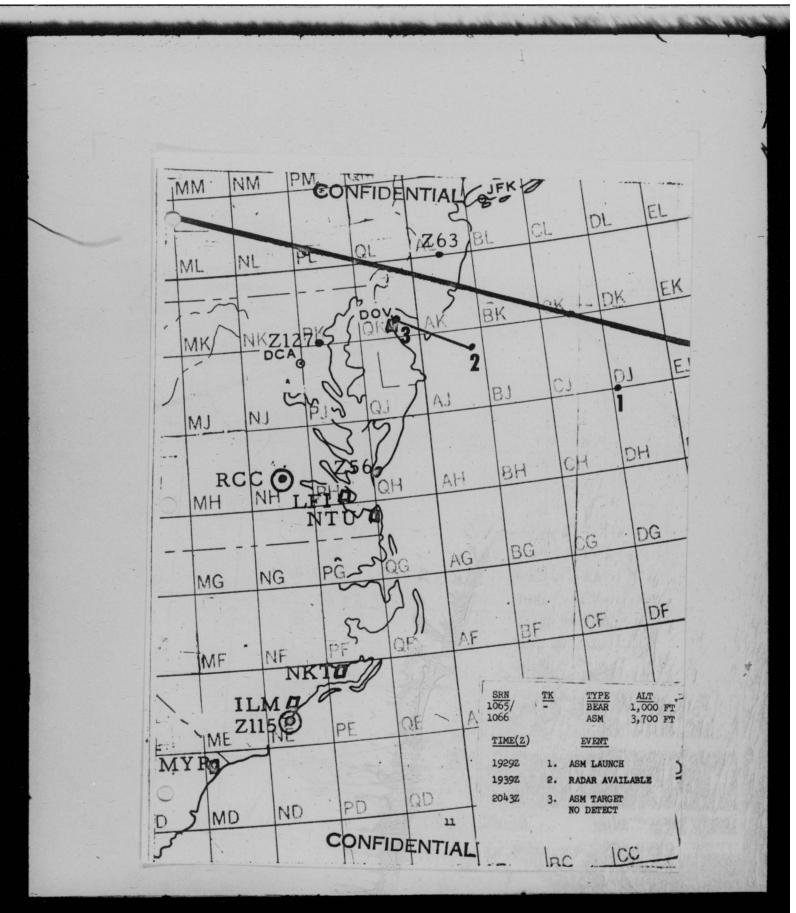
### INTERCEPTOR SUMMARY

TACTICAL ACTION	20RCC	KEY WEST MNCC	REGION TOTALS
Fighers Available	102	11	113
Sorties Flown	175	27	202
Air Aborts	0	0	0
Ground Aborts	3	1	4
Faker Com <sup>8</sup> td On	43	33	76
Number of Pairings	134	34	168
Diverts	65	1	66
Intercept Attempts	69	33	102
МІ	27	4	31
MA-NK PK	9	0	9
First Kill	33	29	62

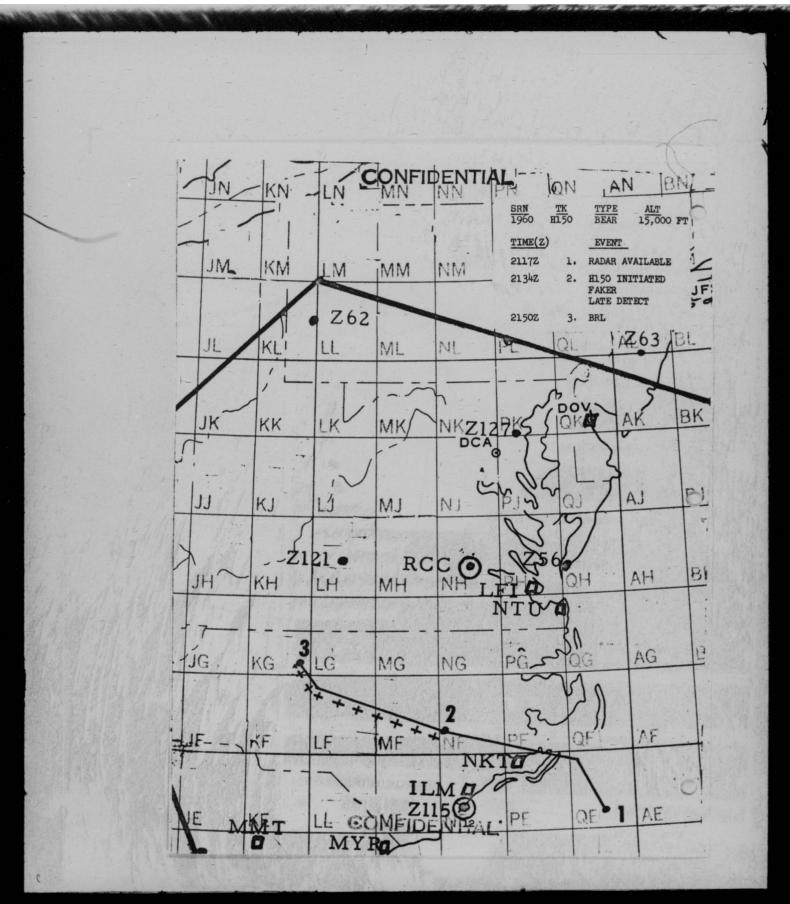
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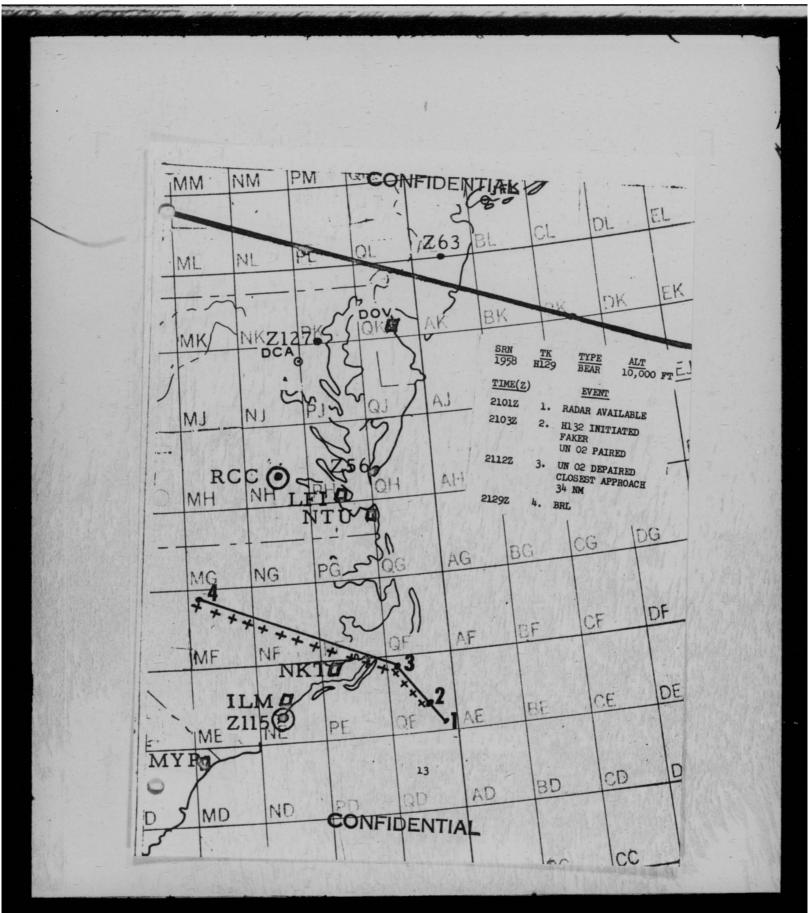
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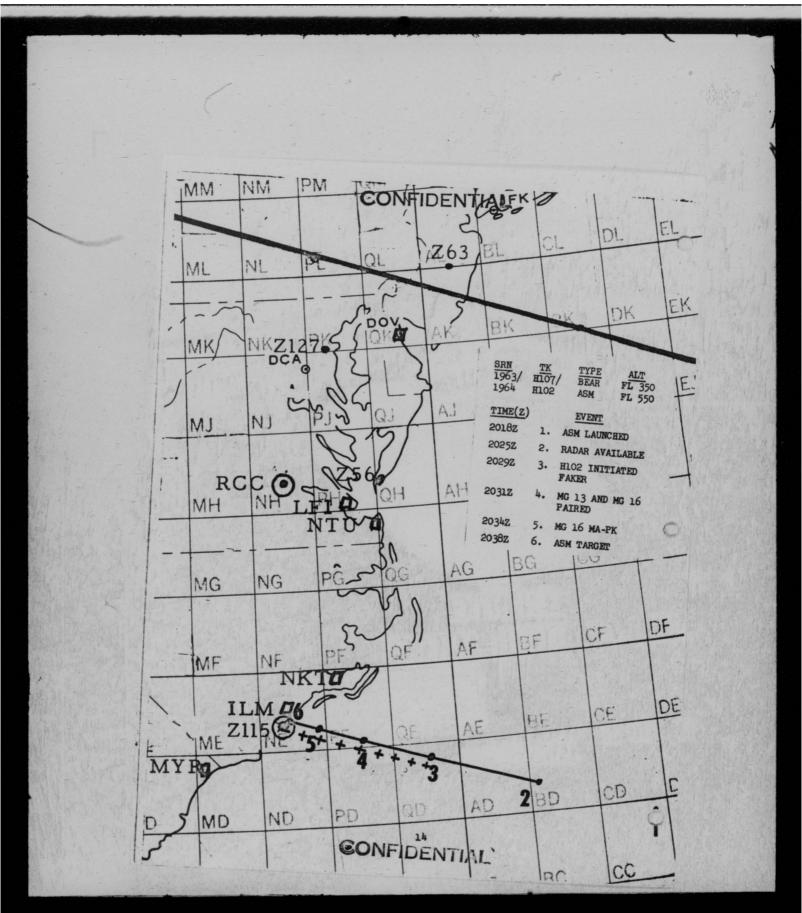
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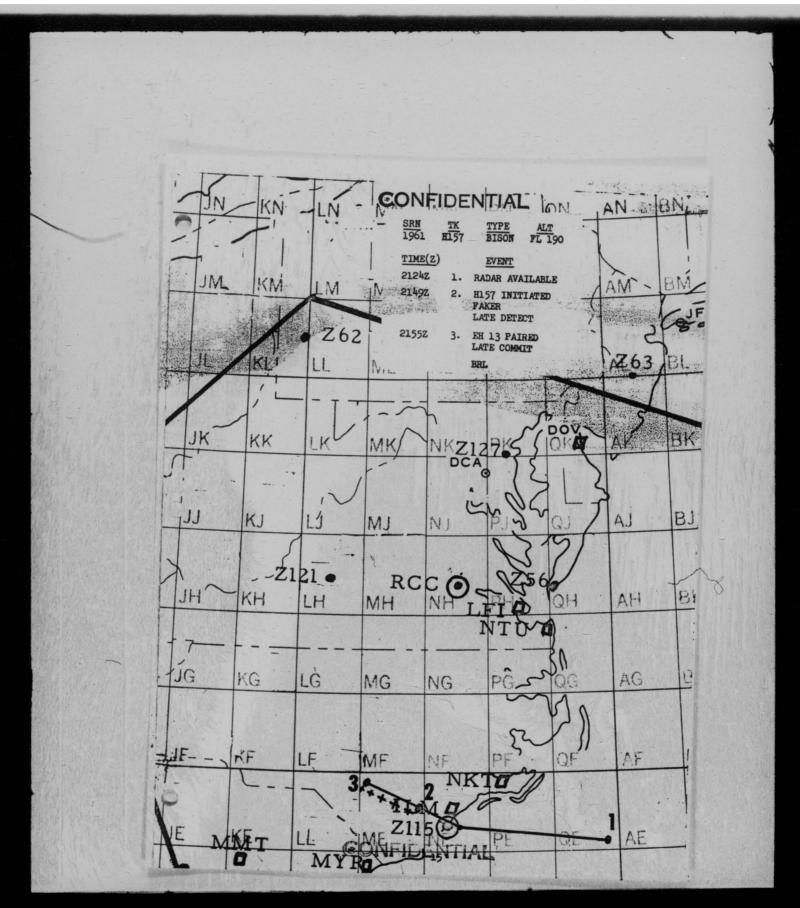
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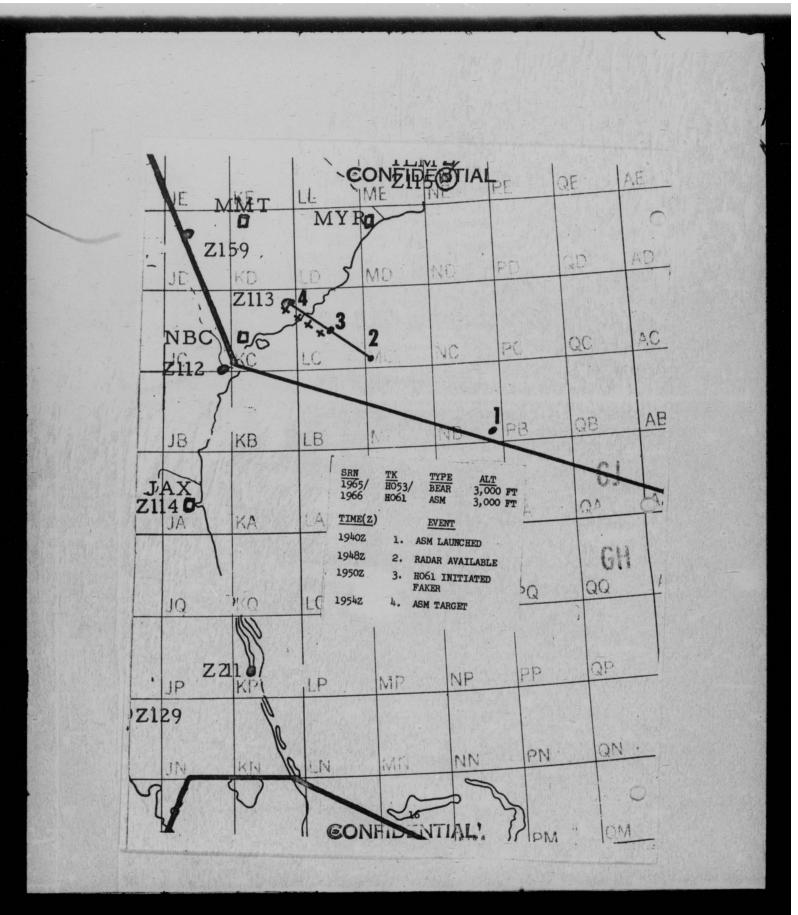
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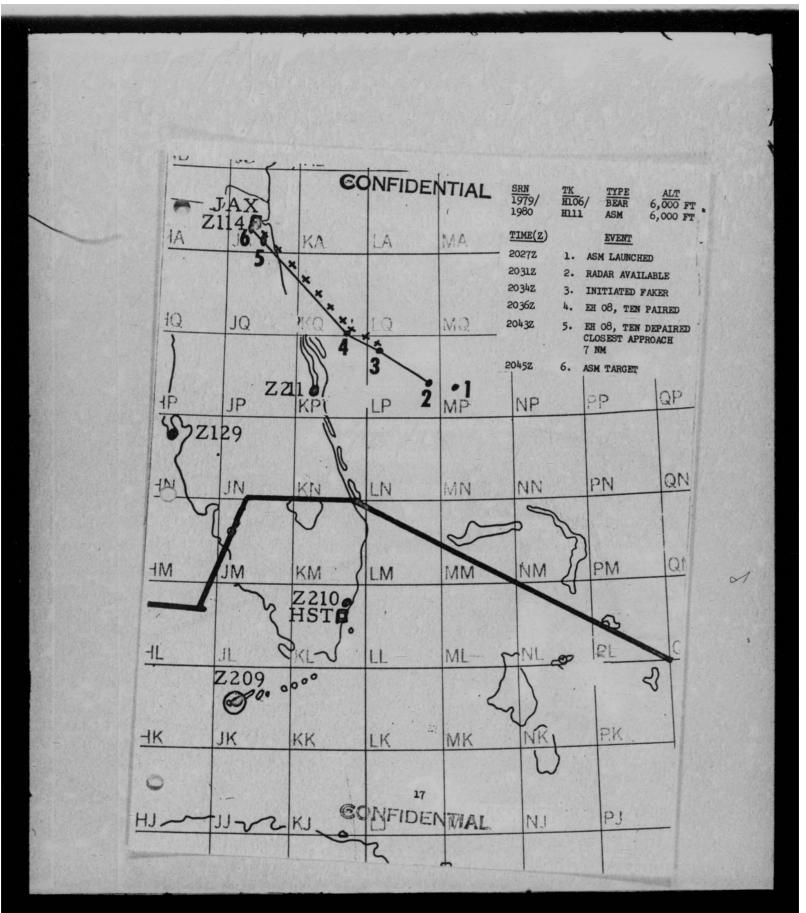
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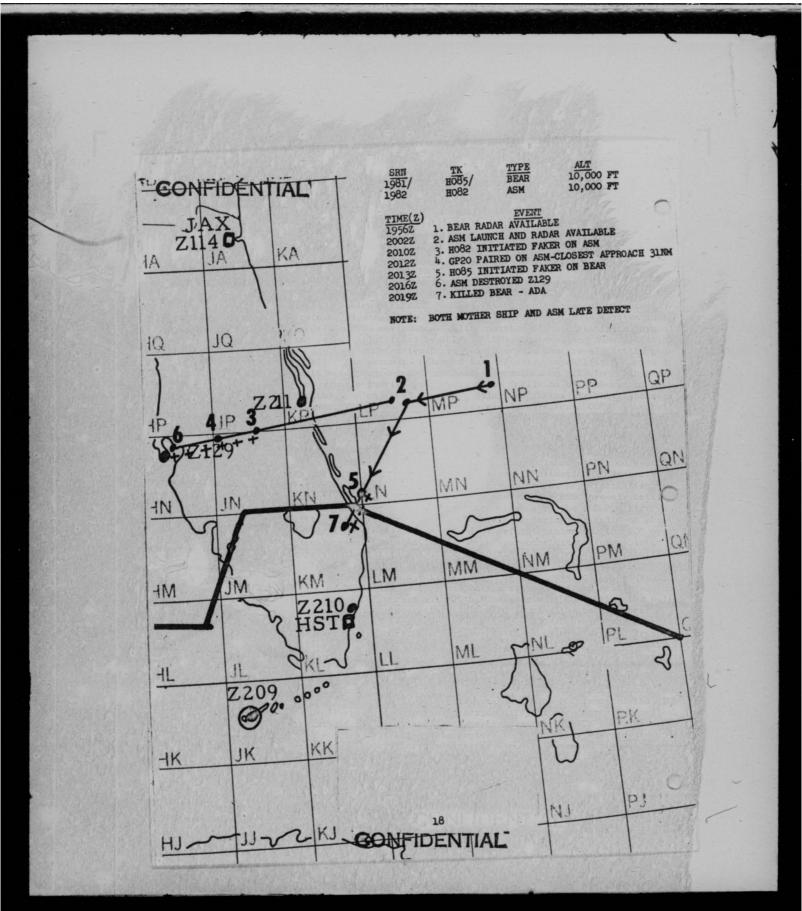
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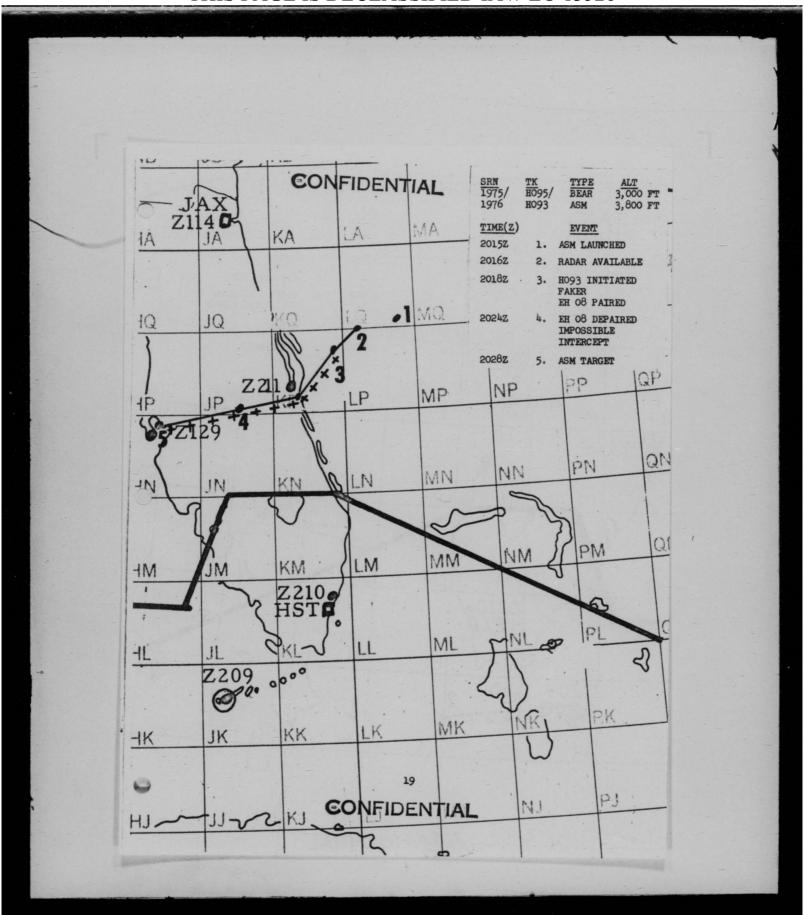
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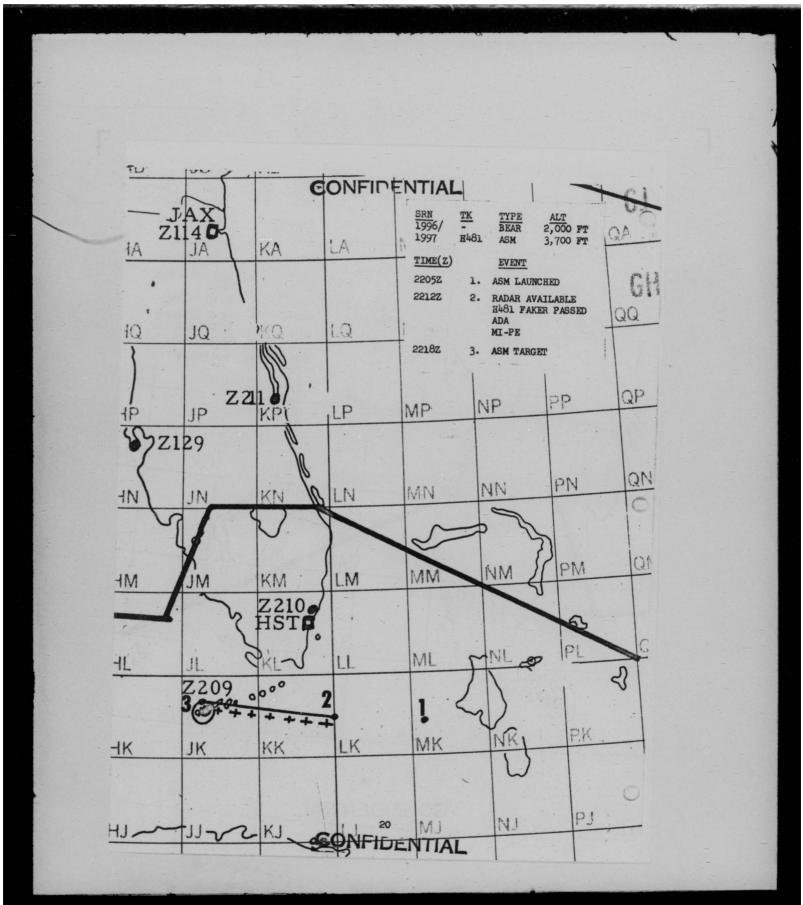
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## UNCLASSIFIED PART IV SYMTHETIC EXERCISE TREND CHARTS PAGE RCC Neutralization Rate KWMNCC Neutralization Rate 23 NOTE: The Neutralization Rate is based on the first kill prior to BRL/EEP either by interceptor or ADA, as appropriate. 21 UNCLASSIFIED

#### CONFIDENTIAL

#### RCC SYNTHETIC EXERCISE NEUTRALIZATION RATE

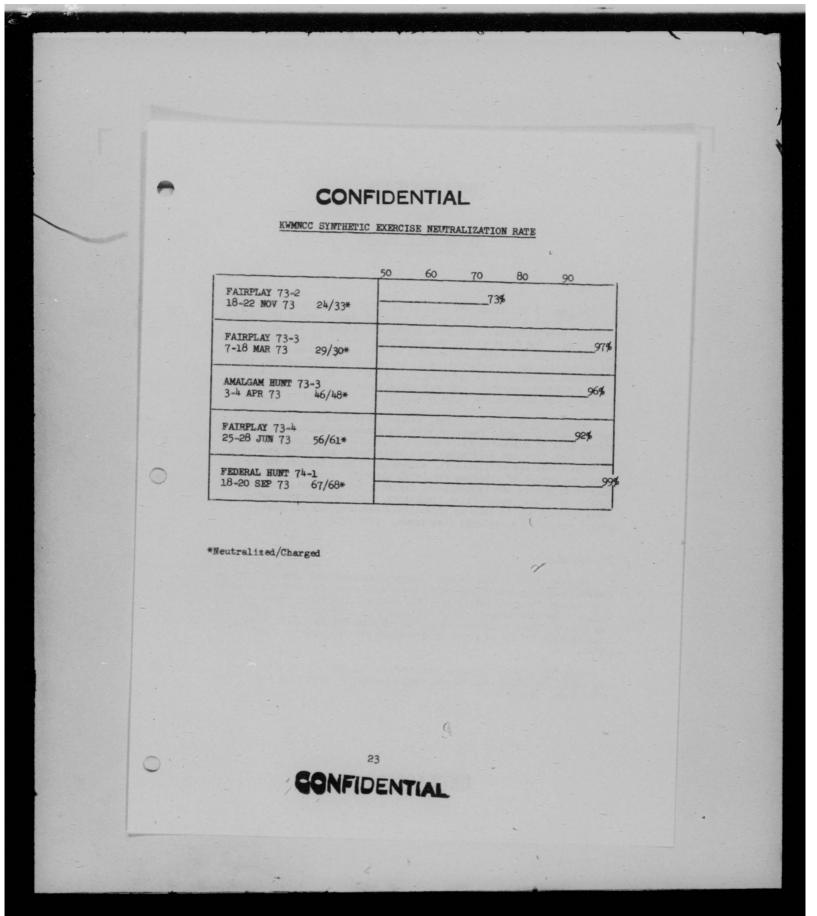
50	60	70	80	90
			8	4%
		4	83	36
				100%
		No. 1		85%
		4	8	14%
	50	50 60	50 60 70	83

\*Neutralized/Charged

22

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PART V

PROBLEM ACTION REPORTS
(Based on Commander's Summaries)

1. RCC

Problem: A TBS flush was ordered at 1545Z. The first interceptor was off 5 minutes later; however, 41 minutes lapsed before all flushed aircraft were airborne. The flush delay was caused by a combination of factors. The first factor was personnel error. It resulted in the automatic flush not being implemented at two bases. When the problem was recognized and an alternative flush method was implemented, personnel and supervisors in training status in TBS and working their first synthetic exercise, were not quick enough or innovative enough to effect the alternative flush action in a timely manner.

Recommended Solution: First, Weapons Directors and Technicians must become thoroughly familiar with the Automatic Flush Switch Action and associated Automatic Flush Action Digital Information Displays to insure that they can accurately tell which bases and which squadrons at those bases are available for automatic flush. Second, should an alternate method of flushing simulated aircraft become desirable, the Weapons Directors and Technicians, Training Battle Simulation Supervisors, and Interceptor Pilot Simulators should become thoroughly familiar with and be able to effectively execute, the alternate method within an acceptable time frame. (DOC OPR)

#### 2. Tyndall

Froblem: All FIS Operations Dispatch Centers and Army Air Defense Command Posts initially failed to pass completion and attainment times for message formats. After specific requests for these times, the Army Air Defense Command Posts did pass this information; but FIS Operations Dispatch Centers responded intermittently, which reused considerable delays in forwarding weapons availability to AURAD AUCOP.

ADA units reminding them of the requirements for reporting completion/

54

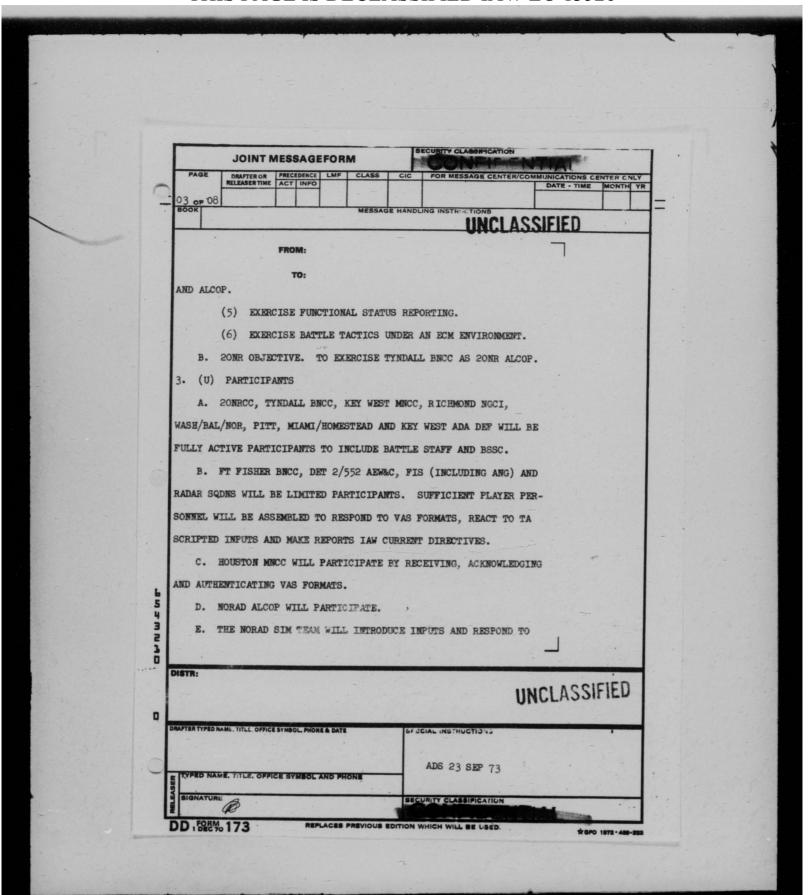
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# UNCLASSIFIED PART VI EXERCISE FRAG ORDER Following are pages 01 through 08 of Message DTG 4/1330Z September 1973, Subj: 20NR Frag Order for Exercise FEDERAL HUMT 74-1. 25 UNCLASSIFIED

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	TO: AIG 8					
			AFB FLA/ADM-SC			
	644 R	ADRON HOMESTEAD	AFB FLA/DO			
	671 R	ADRON SQDN KEY	VEST NAS FLA/DOT			
	678 A	IR DEF GP TYNDA	LL AFB FLA/DO-X			
	701 A	IR DEF GP FT FI	SHER AFS NC/DO-X			
	DET 2	/552 AEW&C SQDN	HOMESTEAD AFB F	LA/DOR		
2	20 SU	RV SQDN EGLIN A	FB FLA/DOV			
	INFO: CINCN	ORAD ENT AFB CO	LO/NOET-S			
	21 NO	RAD RGN HANCOCK	FLD NY/NREA			
1,0	22 NO	RAD RGN NORTH B	AY CANADA/22EEV			
	23 NO	RAD RGN DULUTH	IAP MINN/NREA			
	24 NO	RAD RGN MALMSTR	OM AFB MONT/NREA			
	25 NO	DRAD RGN MCCHORD	AFB WASH/NREA			
	26 NO	DRAD RGN LUKE AF	B ARIZ/NREA			
5 4	NORAL	ALCOP MALMSTRO	M AFB MONT/BSSC			
3	1ST I	RGN ARADCOM STEW	IART AFB NY/ADAGC	-P		
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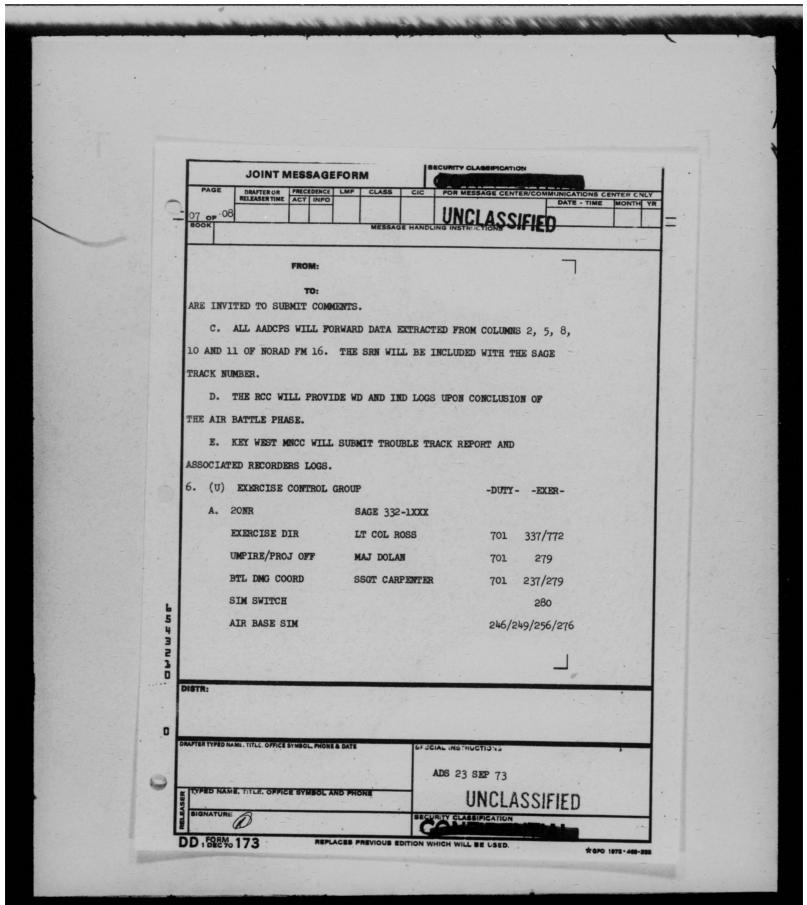
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-	BOOK WESSAGE HANDLING INSTRUCTIONS	
	FROM:	
	XMT: XXXX 702 RADRON SAVANNAH AFS GA	
	FOR CMORS, OPNS AND TRUSTED ACCESSES	
	SUBJ: 20MR FRAG ORDER FOR EXERCISE FEDERAL HUNT 74-1 (U)	
	OPORD 3700	
	1. (C) FEDERAL HUNT 74-1 IS A MULTI-RGN ASTM HOSTED BY 20NR.	
	18 18/0001Z-20/2400Z SEP 73	
	2. (0) OBJECTIVES:	
	A. NORAD OBJECTIVES	
,	(1) SIMULATE BATTLE SIUTATIONS THAT EXERCISE BATTLE	
	S, OF ERATIONS CREWS AND SUPPORT FACTIONES	
	MALERICIDE INTERACTION BETWEEN ELEMENTS OF	
	LOURITION.	
	(3) EFFECT COORDINATION OF WEAPONS AND FORCES, NUDET/	
	BATTLE DMG REPORTING AND IMPLEMENTATION OF CONTINGENCY PLANS FOR	
5 4		
3 2	(4) EXERCISE COMMAND AND CONTROL RELATIONSHIP AND INTER-	
3	ACTIONS BETWEEN SPACE AND MISSILE WARNING UNITS AND THE ASDC	
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0	DAFTER TIPED LAW.	
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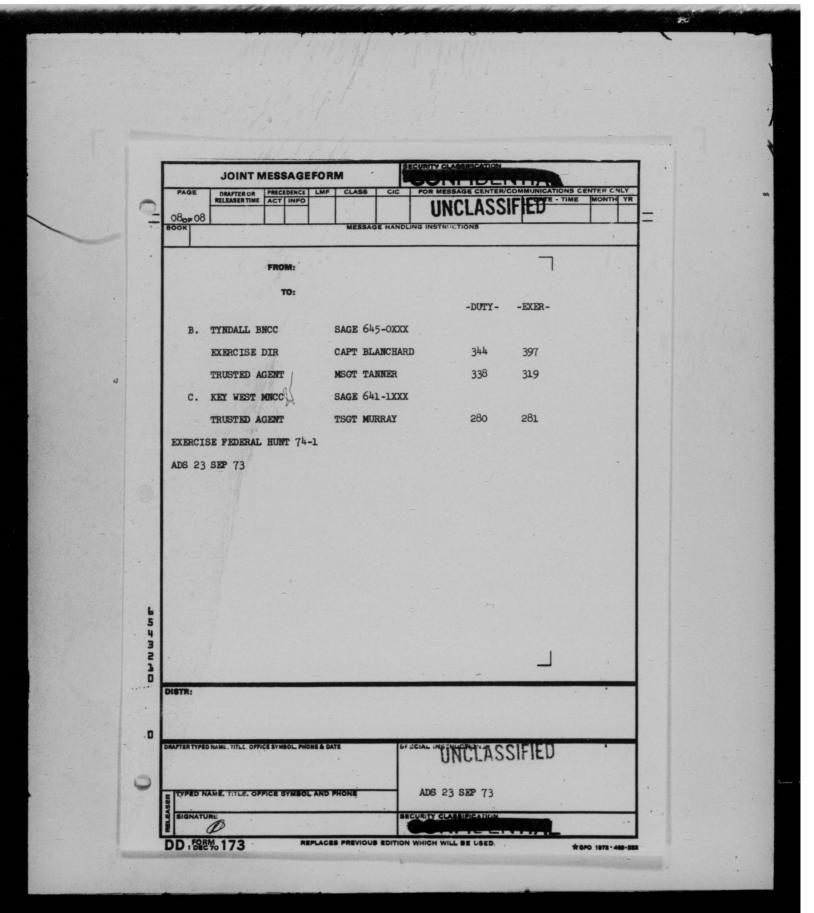
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BOOK	MESSAGE HANDLING INSTRUCTIONS	METED	=
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то:			
	GHER AUTHORITIES IN THE UNITED STATE		
	AT INTERACT WITH NORAD. THE 20NR SI		
	S/QUERIES FOR THOSE NON-PARTICIPATI	NG	
UNITS/AGENCIES THAT INT	ERACT WITH 20NR.		
4. (U) GROUND RULES	LL TAKE PLACE OVER A 3 DAY PERIOD W.		
	THE END OF ACTIVE PLAY ON THE FIRST		
SECOND DAY.	The state of the s	Allo	
(1) PLAYER PER	SONNEL WILL RESPOND DYNAMICALLY TO	THE	
FIRST INCREASE IN SIMUL	ATED DEFCON ON THE FIRST DAY.		
(2) STAND DOWN	ON THE FIRST DAY WILL BE DETERMINED	D BY	
	PLANNING PURPOSES THE STAND DOWN SEC	DULD	1
OCCUR AT APPROXIMATELY			
	IME FOR THE SECOND DAY WILL BE 19/13	000Z	
5 SEP 73.	STAND DOWN WILL BE AUTHORIZED AFTER		
5	DIAM DOWN WILL DE AUTHORIZED AFTER	THE	
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FR	OM:	
	TO:	
RECONSTITUTION SUMMA	ARY HAS BEEN TRANSMITTED TO THE NORAD ALCOP.	
(5) IN PLAC SEP 73.	CE TIME FOR THE THIRD DAY WILL BE 20/1400Z	- 1
PROGRAM PROBLEM. THE	T HAVE A COMPATIBLE TAPE BECAUSE OF A BUIC E AIR BATTLE PORTION WILL BE CONDUCTED IN	
C. TYNDALL BNCC	WILL FUNCTION AS 20NR ALCOP DURING THE	
THASE.	· 20MRCC WILL BE SCRIPPING	
AIR BATTLE.	CONTROL PRIOR TO THE NUDET LAYDOWN AND	
D. AEW&C RESOURCES	S WILL NOT BE AVAILABLE TO 20NR.	
DATTLE DAMAGE W	WILL BE PLAYED.	
F. FRIENDLY AIR TR	RAFFIC WILL NOT BE PLAYED	
5 FORSTAT REPORT SUBJECT:	SE WILL BE ESTABLISHED FROM THE LIVE	
3 -	D 24 HRS FRIOR TO THE EXERCISE LIABILITY	
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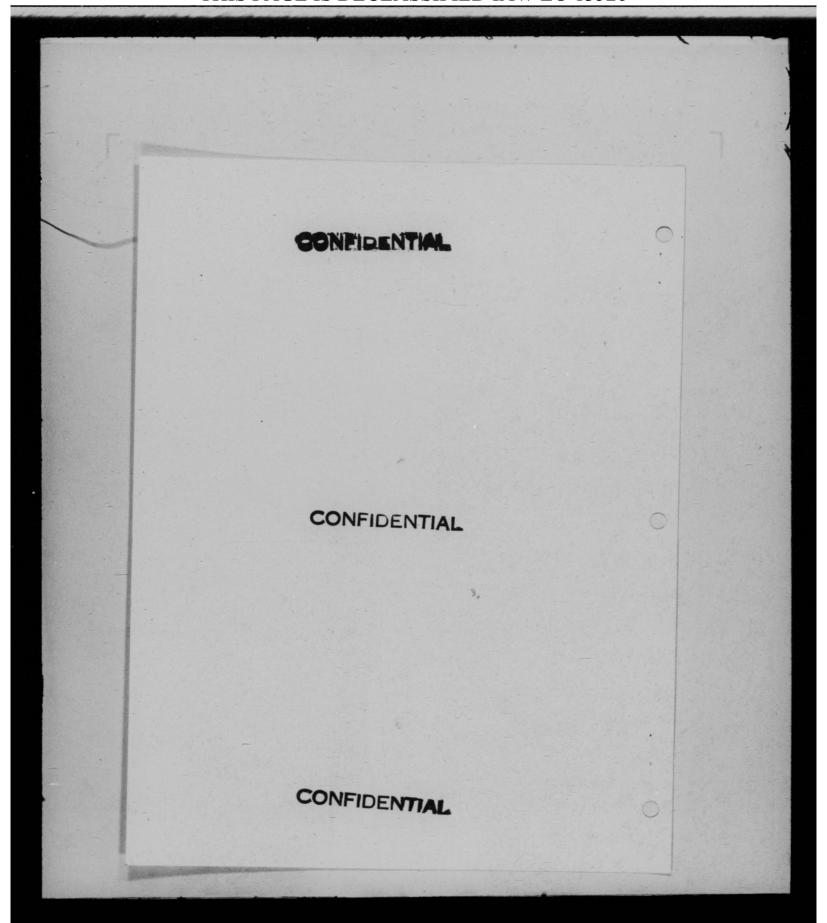
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H. THE EXERCISE TAPE WILL BE	CYCLED ON BUE DOG CHAND DA
COMPUTER. LIVE AIR WILL BE MAINT	이 선생님 않는 사람들이 되었습니다. 하면 가게 되었습니다. 그렇게 그리고 있는데 이번 모양 보다 되었다.
THRU 19/2300Z SEP 73.	THE TAI THUR 19/17002
I. A TBS FLUSH WILL BE REQUI	RED.
	RT MOVEMENTS, AND TACTICAL DEPLOYED
	MROUTE AT STAND DOWN ON THE FIRST
DAY WILL BE CONSIDERED IN PLACE A	[18] [18] [18] [18] [18] [18] [18] [18]
TIME ON THE SECOND DAY.	
K. A GENERAL RECALL IS NOT R	EQUIRED.
5. (U) LOGS/REPORTS. THE FOLLOW	WING WILL BE SUBNITTED TO CONREA
MLT 2 WORKING DAYS AFTER FADEOUT.	
A. CMDRS SUBMARY SLIDE INFO	VILL BE SUBNITTED FROM 20RCC AND
KEY WEST MICC.	
B. CHORS SUMMARY REPORT IS RE	EQUIRED FROM 20MRCC, KEY WEST
MINICO AND TYNDALL BRCC. CHORS SUMM	[10] (10] [10] [10] [10] [10] [10] [10] [10] [
COMMUNITS ON EACH EXERCISE OBJECTIVE	E. ALL CHORS UNDER OPCON 20MR
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orein:	
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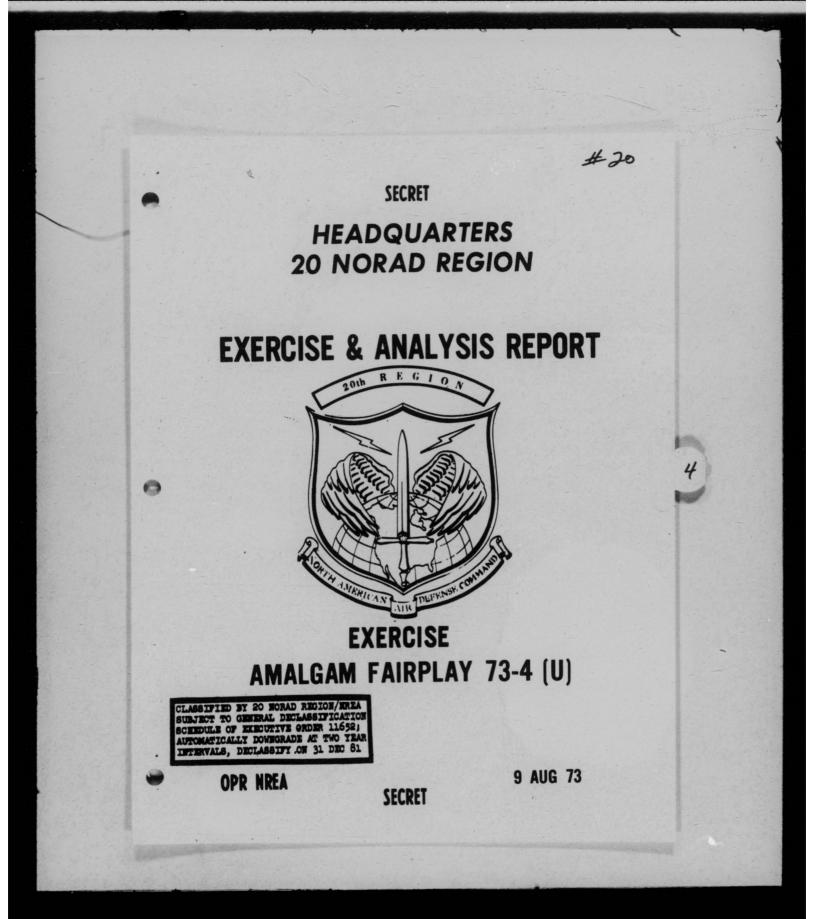
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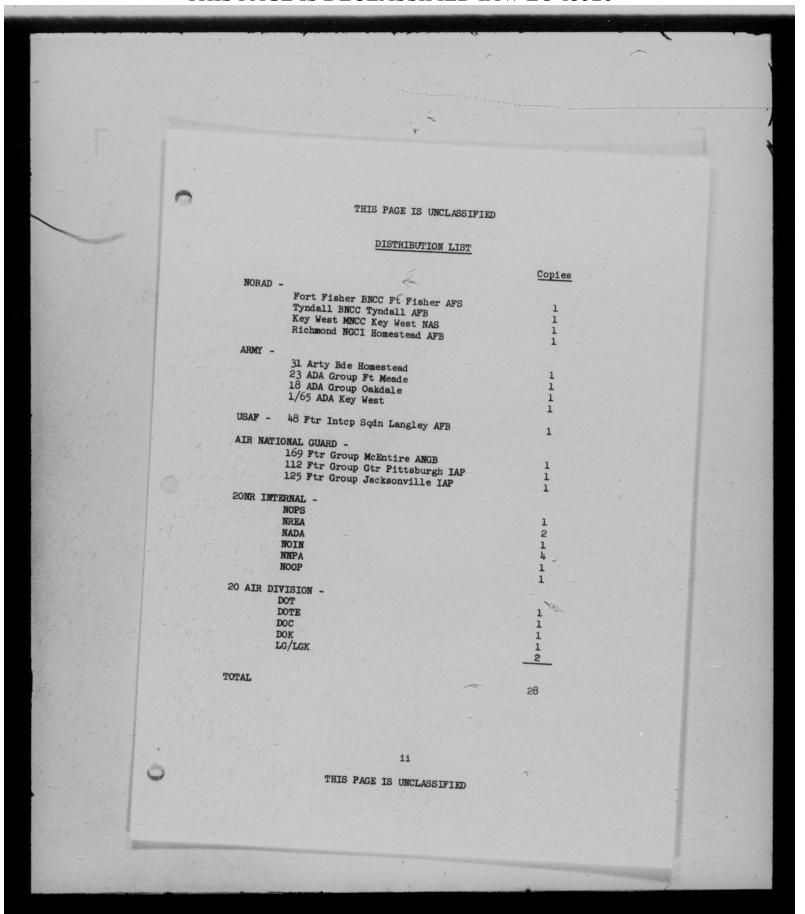
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THIS PAGE IS UNCLASSIFIED PREFACE This document consists of post exercise analysis information for AMALGAM FAIRPLAY 73-4, which was conducted on 25-28 June 1973. This report contains significant facts and statistics associated with the exercise. The primary purpose of this report is to determine if exercise objectives were met, analyze the training conducted, identify problem areas, and indicate where improvement Subordinate units are encouraged to make a detailed analysis of specific factors noted in their areas of responsibility. Trouble tracks are summarized in Part III of this report. Permission is granted to reproduce this document in whole or in part, subject to the classification of the appropriate pages. THOMAS A. PAYNE, COLONI, Deputy Commander THIS PAGE IS UNCLASSIFIED



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#### SECRET

PART 1

#### EXERCISE DESIGN AND OBJECTIVES

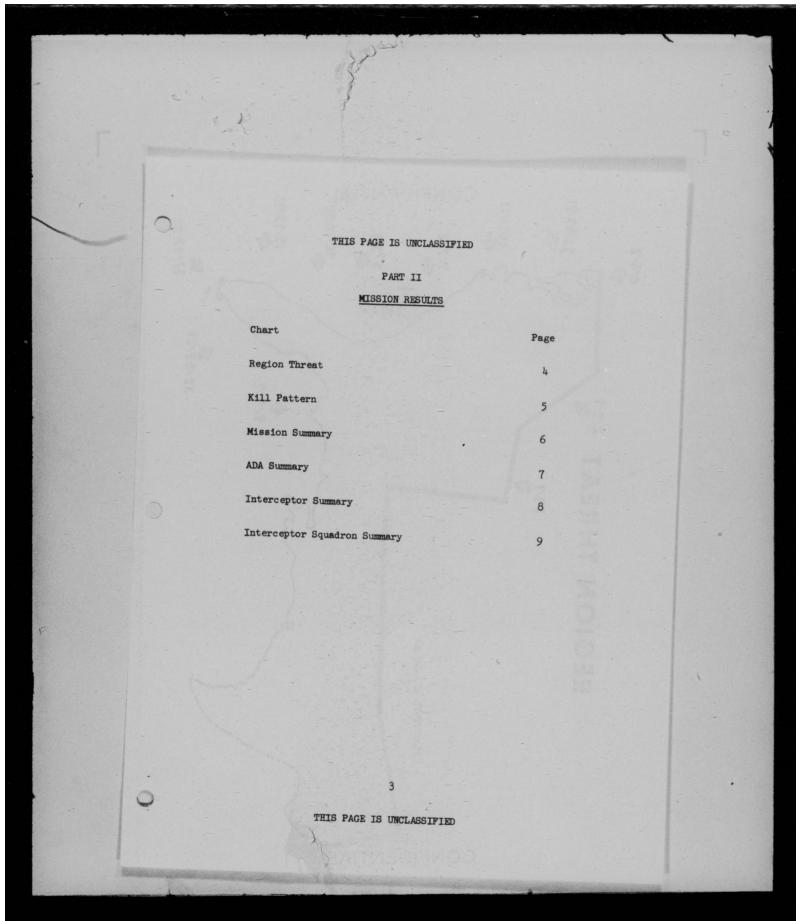
- 1. (U) Design: AMALGAM FAIRPLAY 73-4 was a multi-region simulation exercise. The threat to NORAD consisted primarily of ballistic missiles and air breathing bomber vehicles. Of the total NORAD threat, 1 FORS, 32 ICBMs, 9 SLBMs, and 100 air breathing vehicles were targeted within the 20th NORAD Region.
- a. The missile war commenced at 1220Z on "A" Day with an erroneous early SLBM launch destroying Barksdale AFB. One hour later, FOBS impacted followed by ICBMs. The only SLBM attack occurred at 1549Z and lasted 50 minutes.
- b. The NORAD bomber attack occurred on the same day. The first wave used the over-Arctic penetration route east of Iceland. It appeared on the east coast at 1732Z. The second wave, a southern threat, developed 25 minutes later at 1758Z, and consisted of fighter bombers targeted exclusively in the 20th NORAD Region. A quarter of the air breathing vehicles targeted within 20th were ASMs.
- 2. (S)(U) Objectives and Results: In addition to the Headquarters NORAD objective of exercising the BSSC at the NORAD ALCOP, there were two objectives for the 20th NORAD Region.
- a. (S) The first objective was to exercise Commanders and their staffs in determining reconstitution priorities. This was accomplished. At fadeout, in order to meet a follow-on threat, 53 O/R interceptor aircraft with armament were located at 7 airfields disbursed throughout the Region. The airfields included NHK, RIC, GSB, CHS, PAM, NQX and NBG. Of the three control facilities participating in the exercise, the RCC and Key West remained operational through out. Tyndall BNCCs computer malfunctioned near the end of the air battle at 1930Z, and was down for the remainder of the exercise. In addition to the weapons and control facilities available, one-half of the LRRs remained operational at fadeout.
- b. (C) The second objective was to exercise 20NR BSSC and subordinate unit BSSCs in maintaining and reporting an accurate and current account of operations affecting the Region while Region facilities were under varying degrees of degradation. This objective was met, and the training objectives of the 20th NORAD Region BSSC were generally realized. The two problems encountered follow:

1

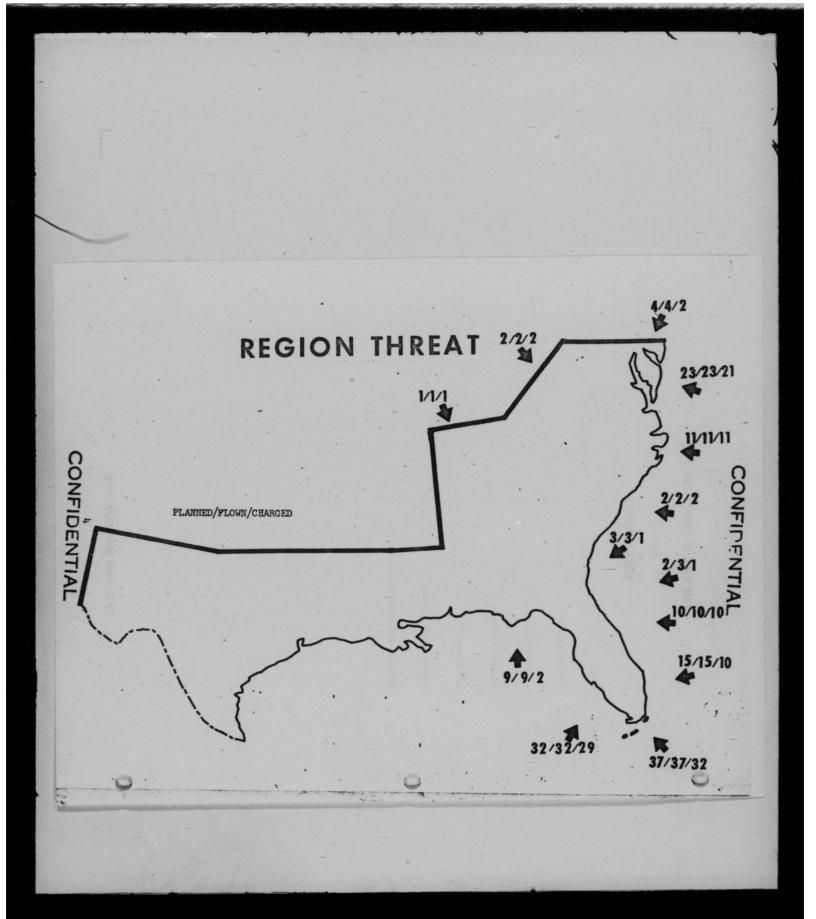
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## CONFIDENTIAL (1) There was no back tell of support airlift to the ALCOP. (This problem will be discussed later in the Commander's Summary, Problem Action Reports portion of this publication.) (2) Another problem existed in timely receipt of data requested from the Key West BSSC. Upon the Region's BSSC request for armament update for HST AFB, excessive time lapsed while Key West transmitted this classified information by message. A much faster method was suggested, using the AKAP 29 to encode this information for voice transmission. A request has been submitted to ADC to establish a requirement for this encryption device at Key West. In the interim, the AKAP 29 possessed by the 31st Battery of the 65th Air Defense Artillery Brigade can be used. c. (U) In addition to meeting the specific stated objectives of this exercise, Tyndall reported that the exercise was an excelor this exercise, lyndari reported that the exercise alequate for surveillance personnel. Key West found the exercise adequate for surveillance, weapons and ADA, and noted that coordination with Tyndall during Level 2B was much improved over AMALGAM ARROW 73-8. CONFIDENTIAL

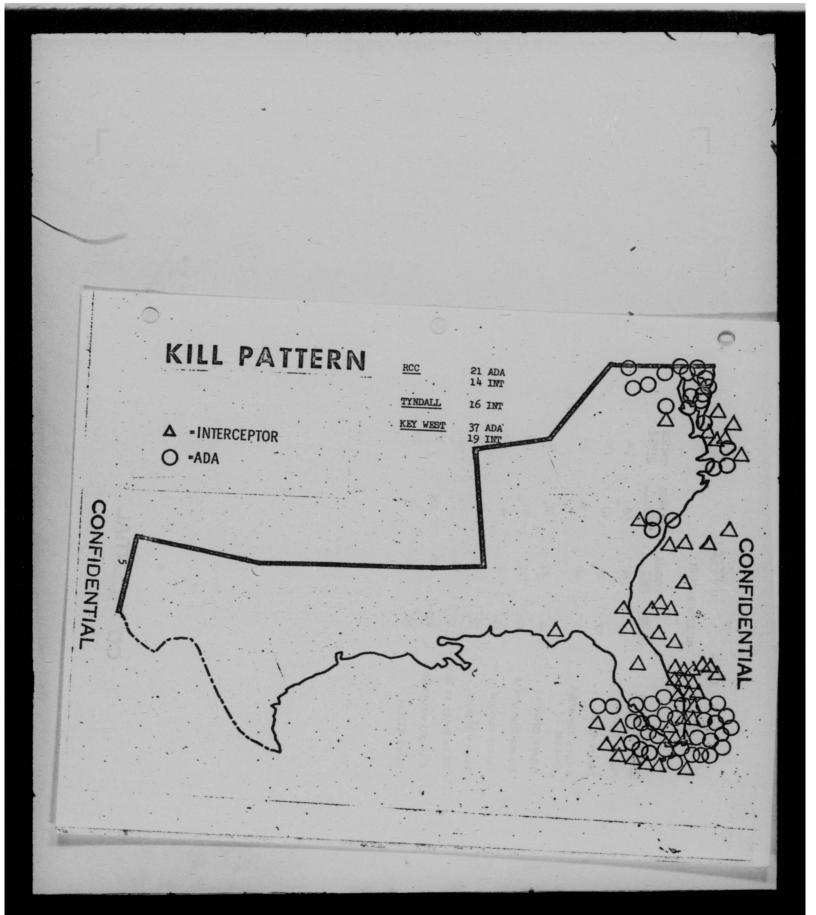
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#### COMPENTIAL MISSION SUMMARY TYNDALL KEY WEST REGION TACTICAL ACTION 20RCC BNCC TOTALS Fakers Planned 48 34 69 151 Fakers Flown 49 34 69 152 Fakers Flown/Not 8 12 8 28 Charged Fakers Detected 40 22 61 123 Fakers Identified 40 22 61 123 Fakers Charged 22 61 124 Fakers Engaged 39 22 61 122 Kills Prior to BRL 35 16 107 Neutralization Rate 85% 73% 92% 85% Total Kills 38 16 60 114 6 CONFIDENTIAL

#### CONFIDENTIAL

ADA SUMMARY

TACTICAL ACTION	20RCC	KEY WEST MNCC	REGION TOTALS
ADA Fire Units	14	12	26
Missiles Available HAWK/HERC	*	*	*
Fakers Engaged	55	47	102
Missiles Expended	55	59	114
MA/First Kill	21	37	58
Overkills			
Kills	21	37	58
MIs	2	3	5
MI REASONS	1 PK 1 TGT FAD	3 PK	

\*Intentionally left blank; available upon request from 20NREA

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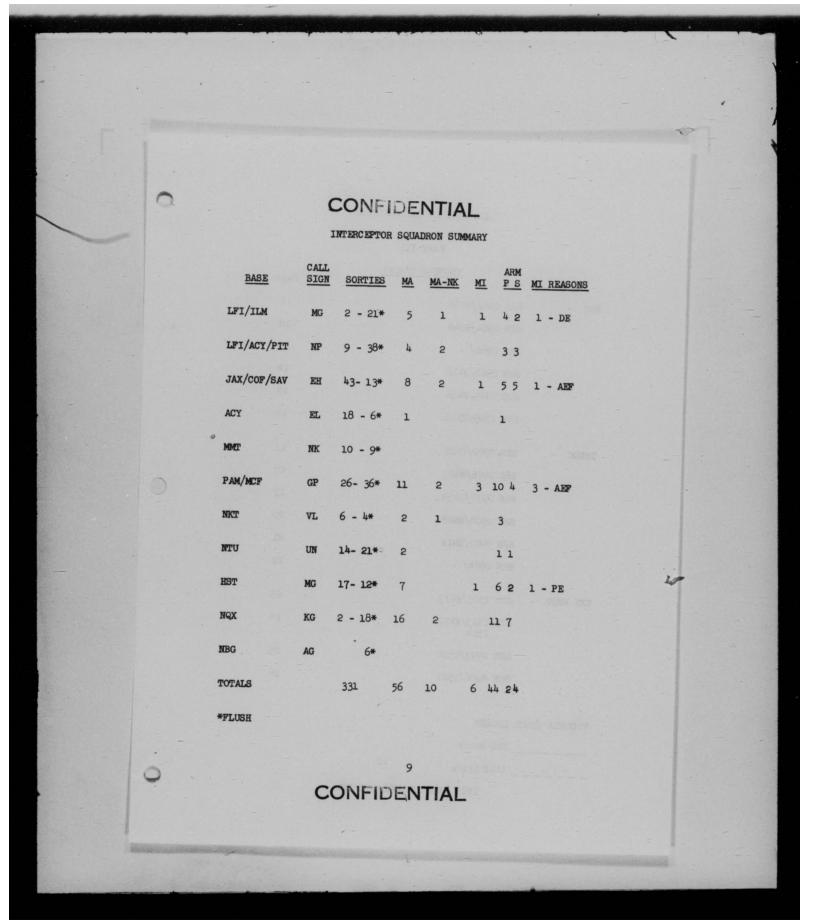
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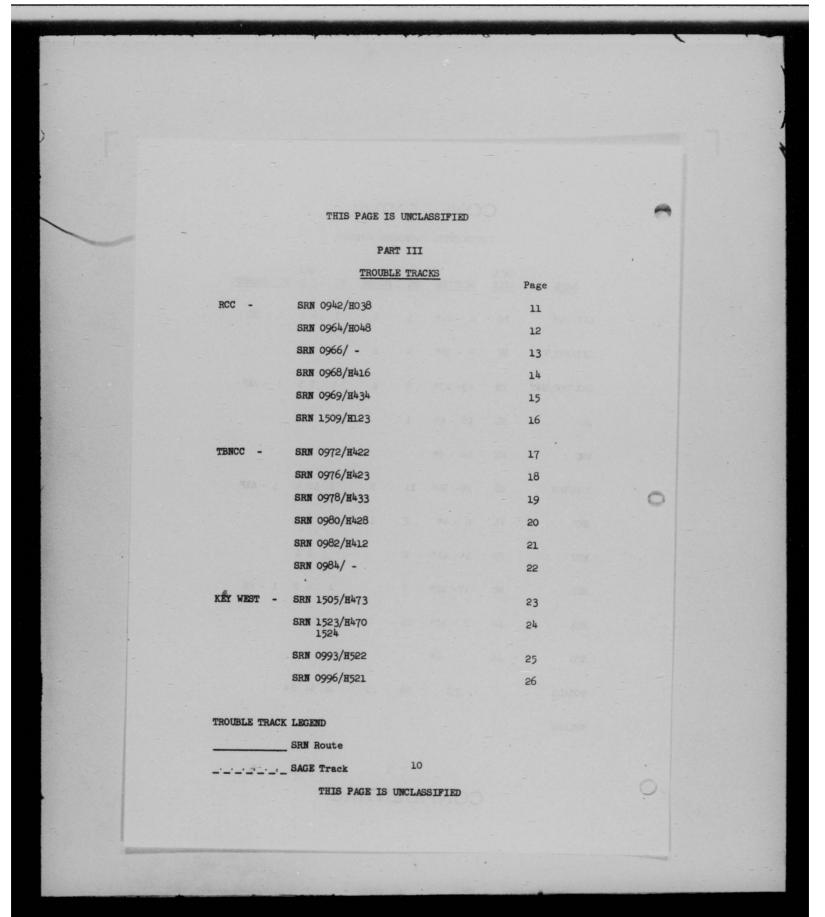
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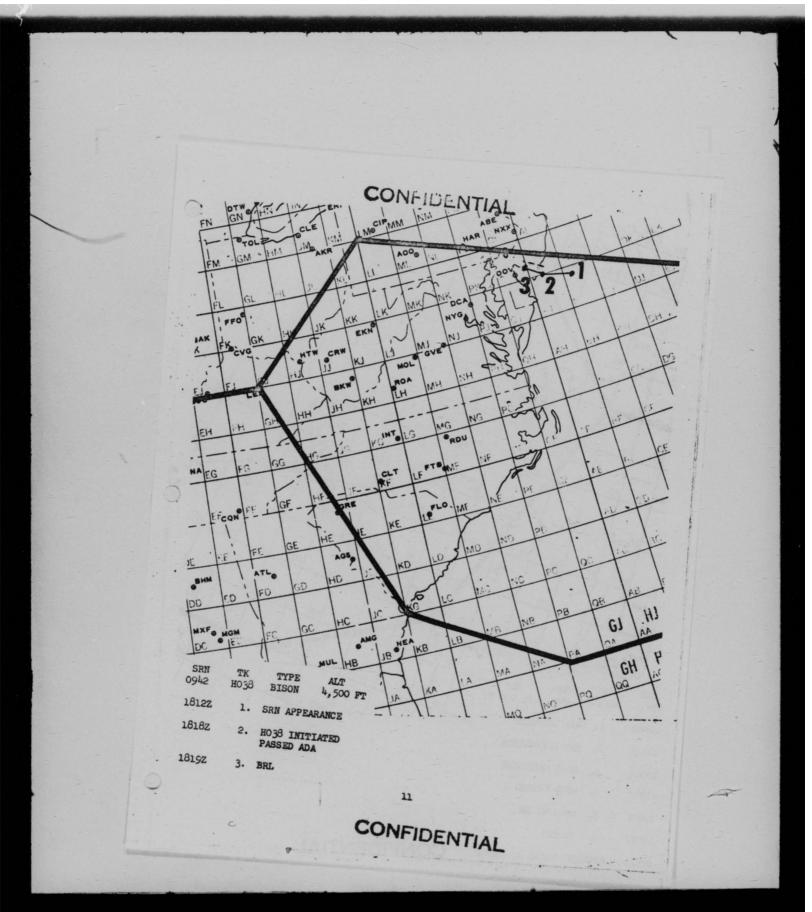
#### INTERCEPTOR SUMMARY

TACTICAL ACTION	20RCC	TYNDALL	KEY WEST	REGION
Fighters Available	82	45	11	138
Sorties Flown	158	118	39	315
Air Aborts	-	8	2	10
Ground Aborts	3	0	2	5
Faker Com'td On	39	25	25	89
No. of Pairings	83	56	29	168
Diverts	61	32	3	96
Intercept Attempts	22	24	26	72
м	1	4	1	6
MA-NK PK	4	4	2	10
First Kill	14	16	19	49
Total Kills	17	16	23	56

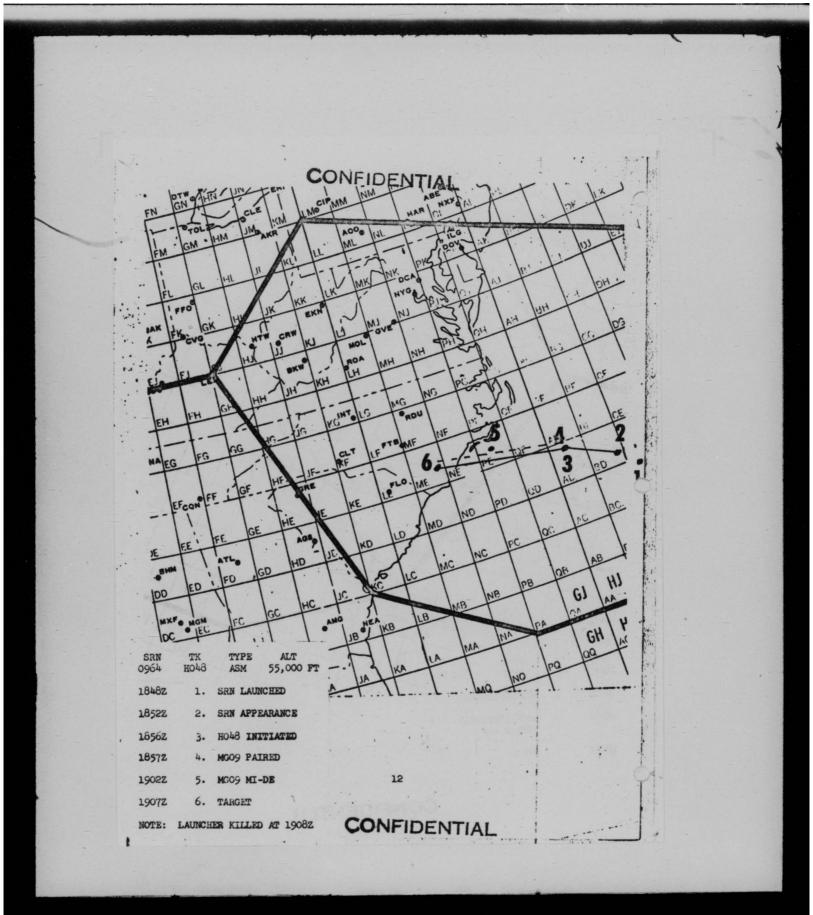
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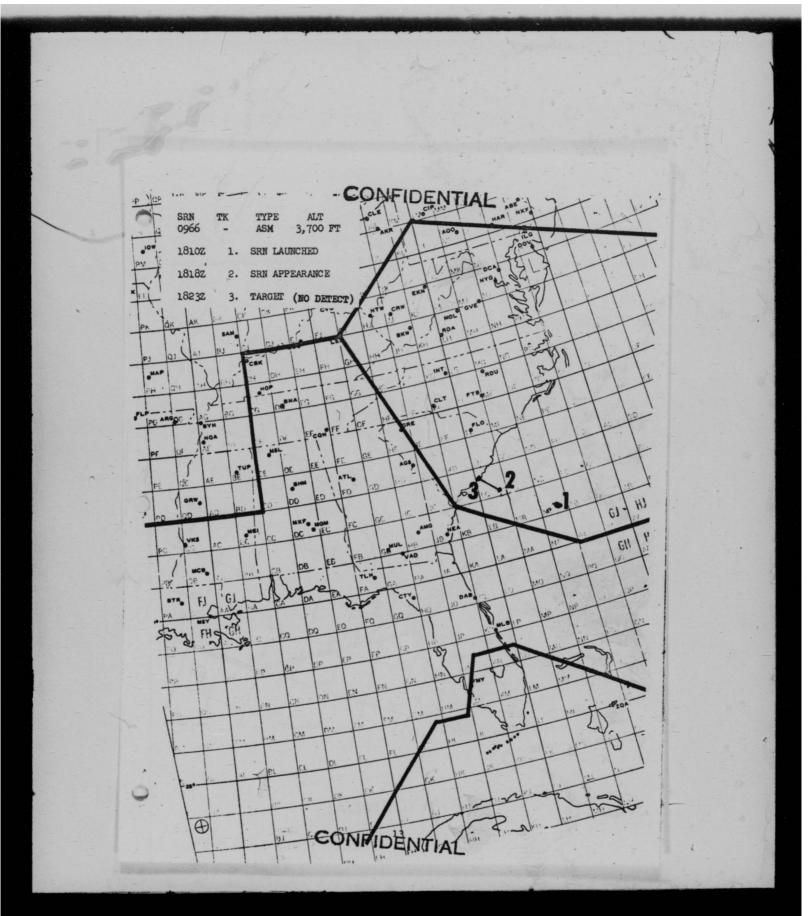




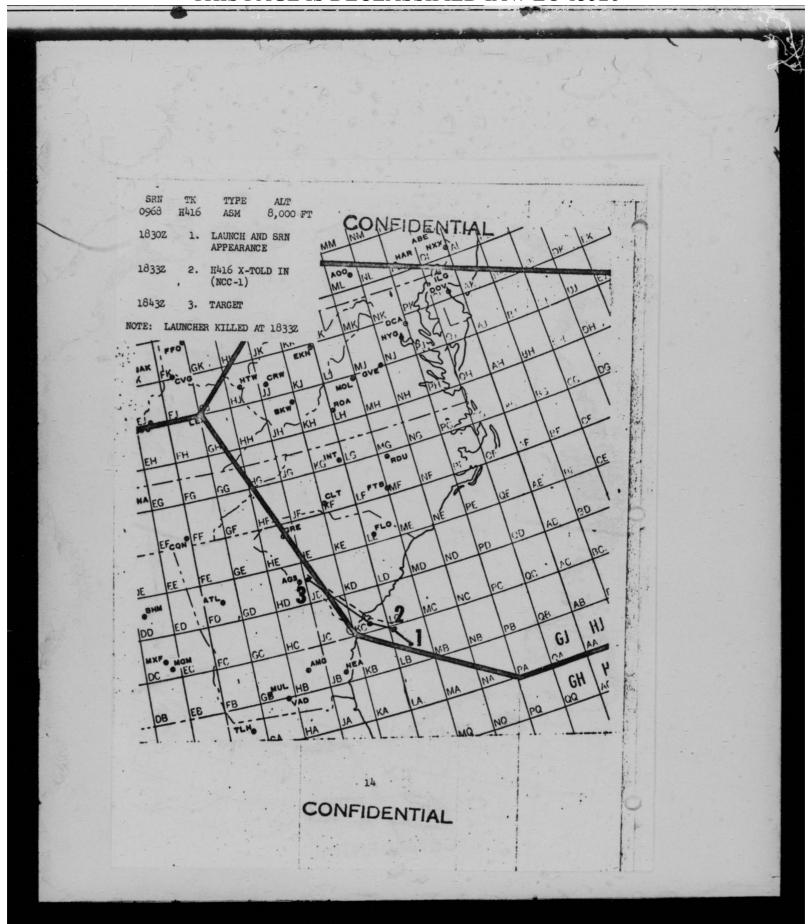
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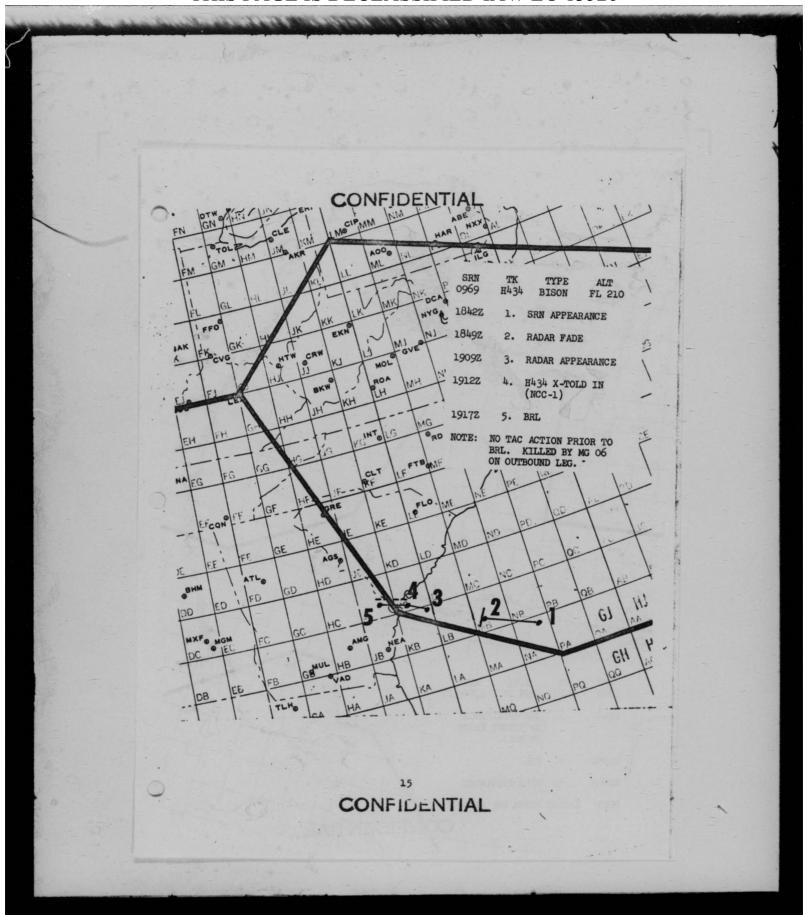
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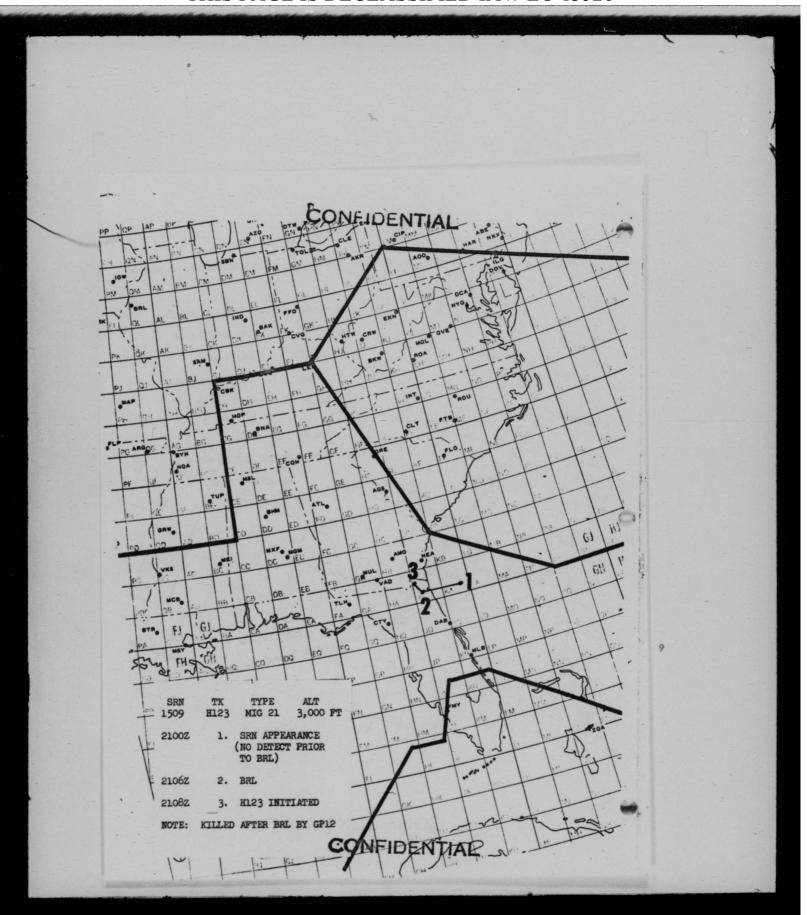
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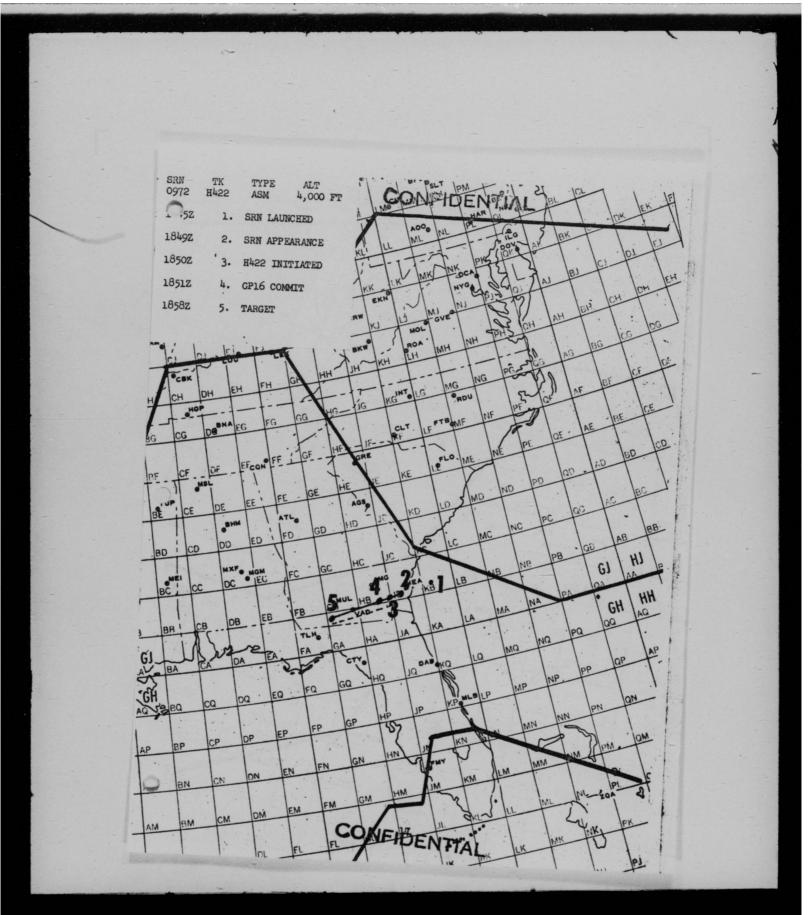
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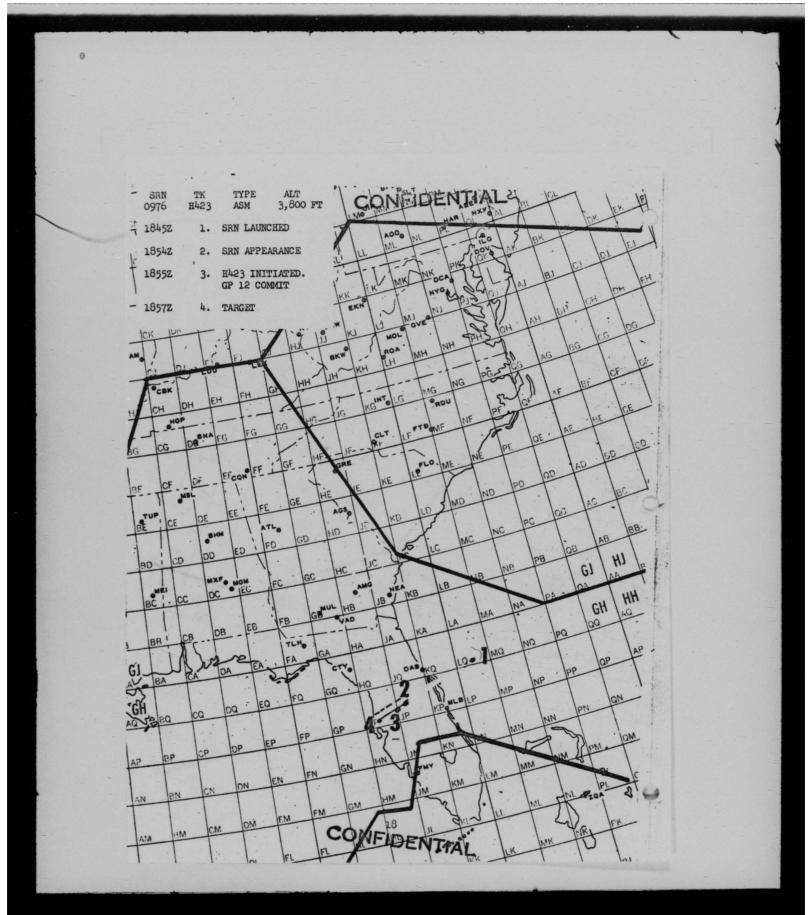
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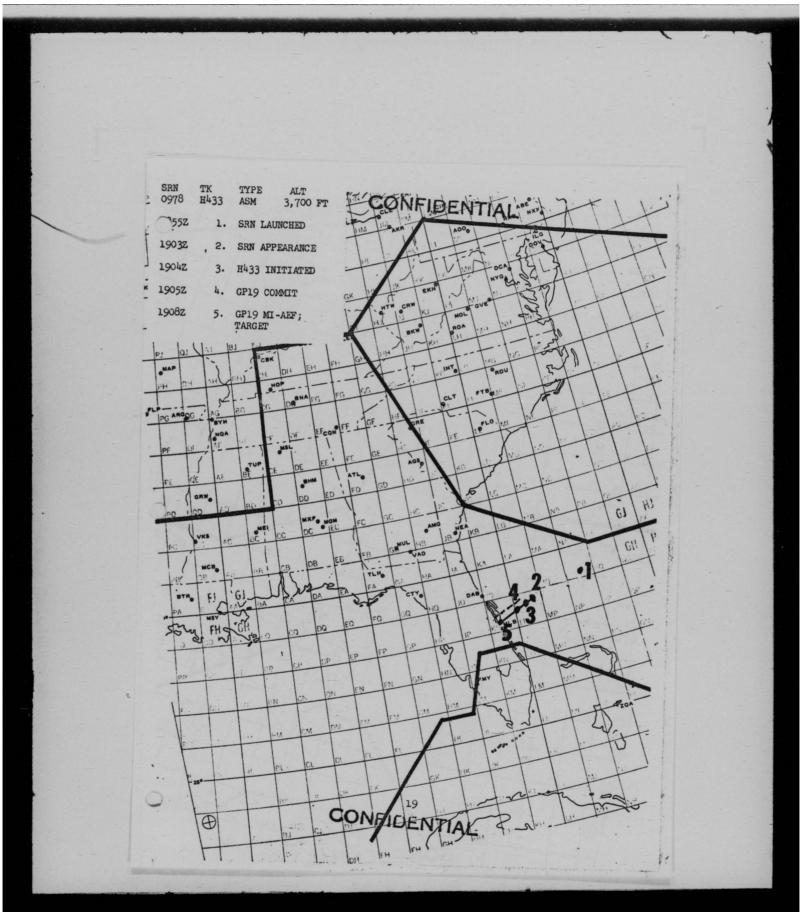
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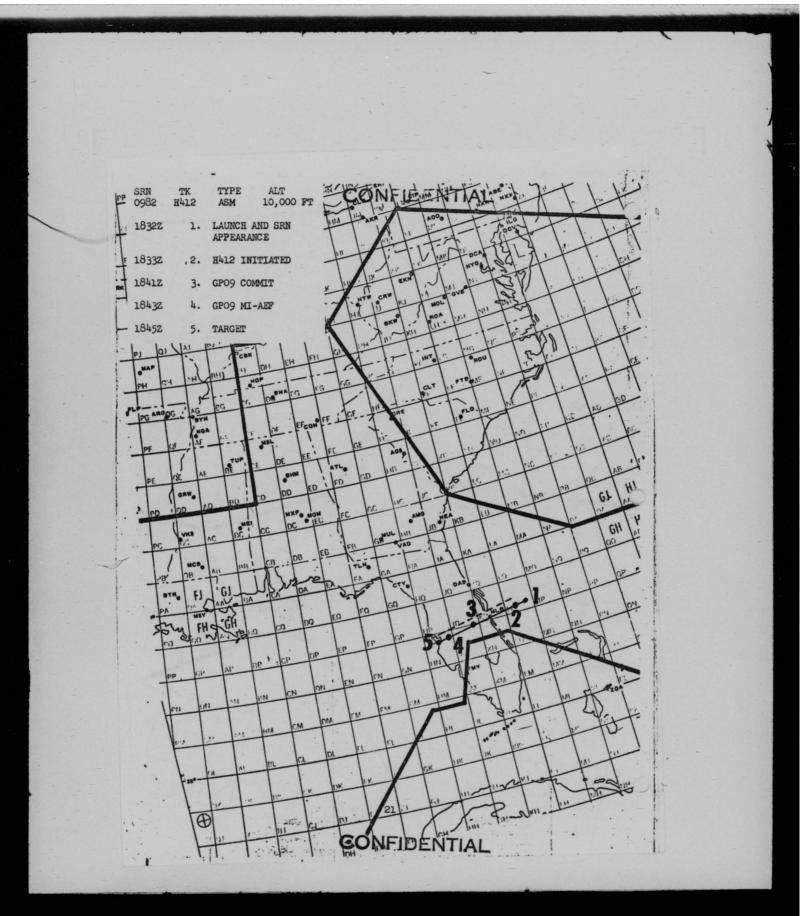
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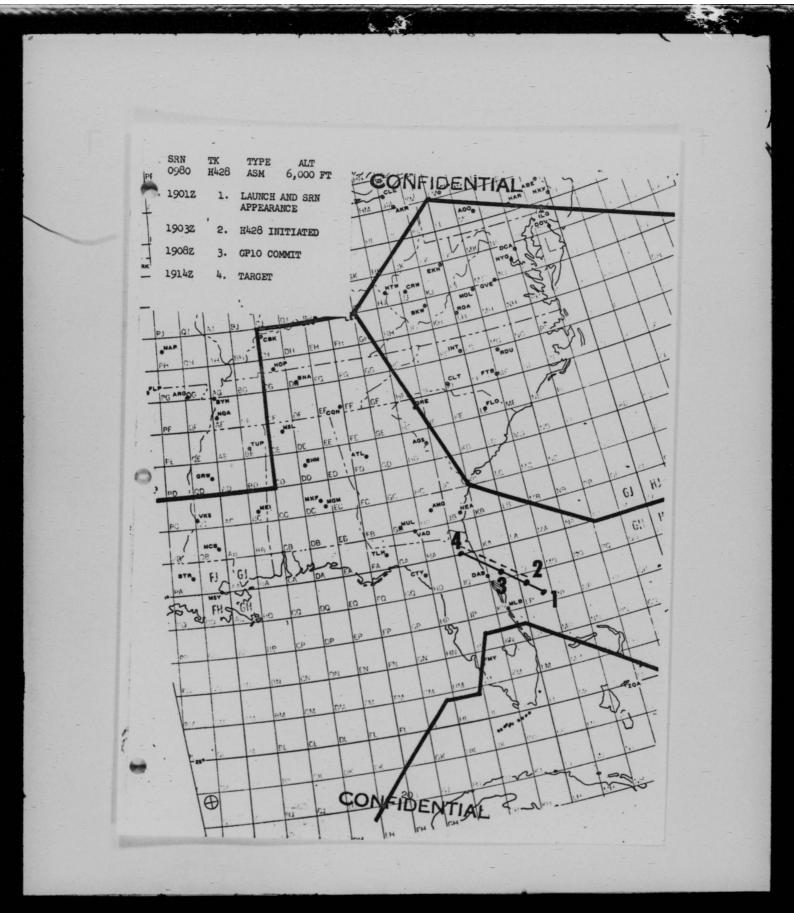
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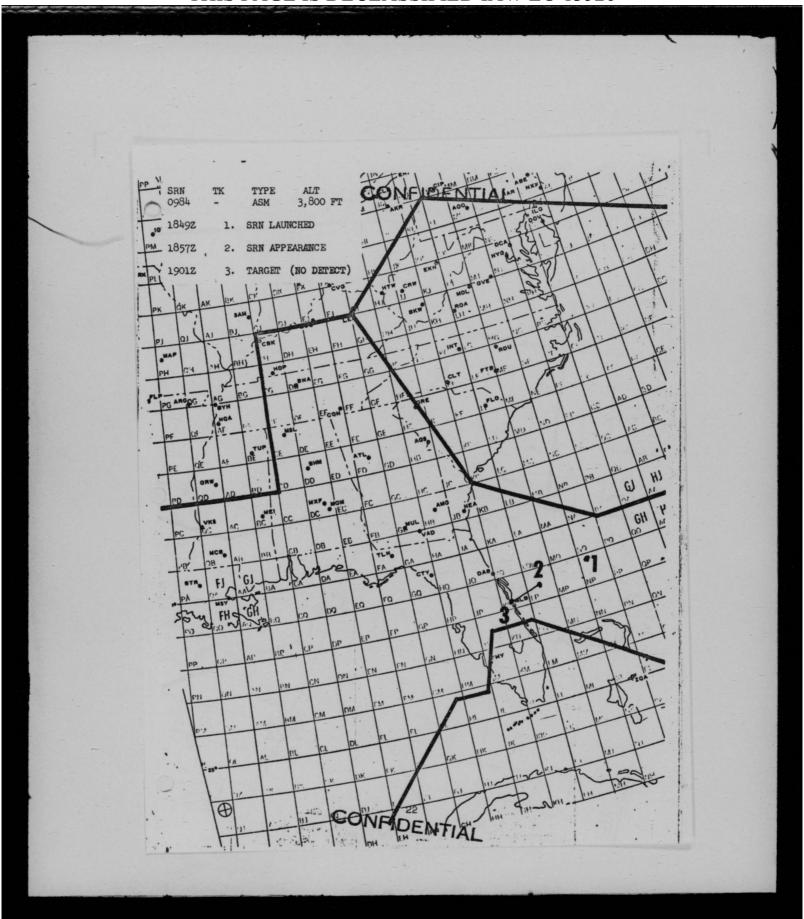
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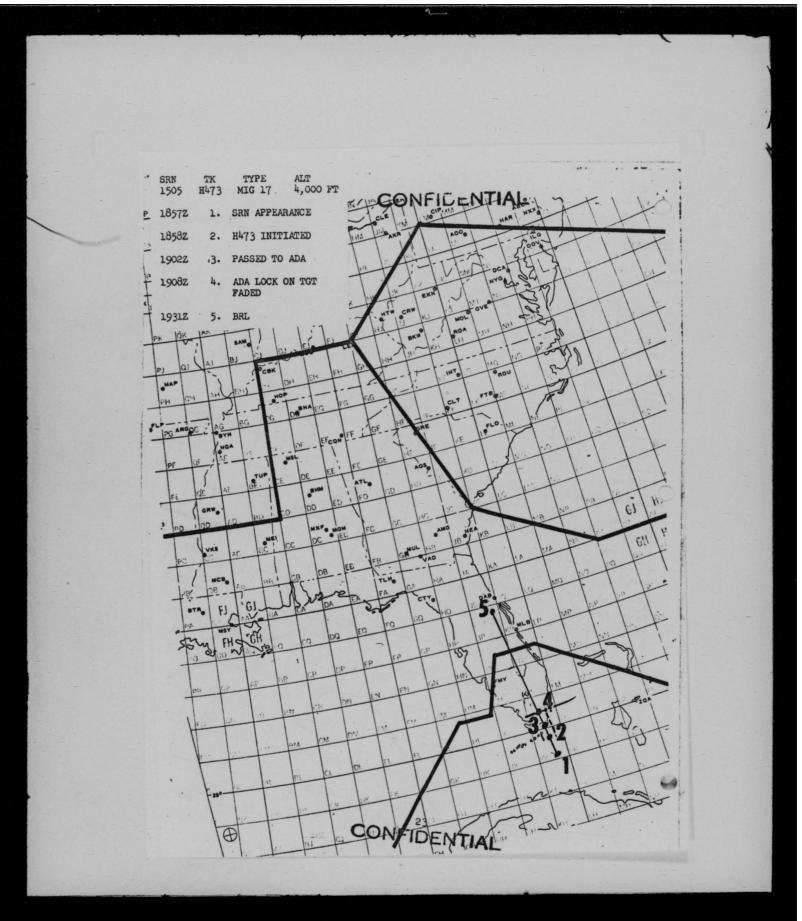
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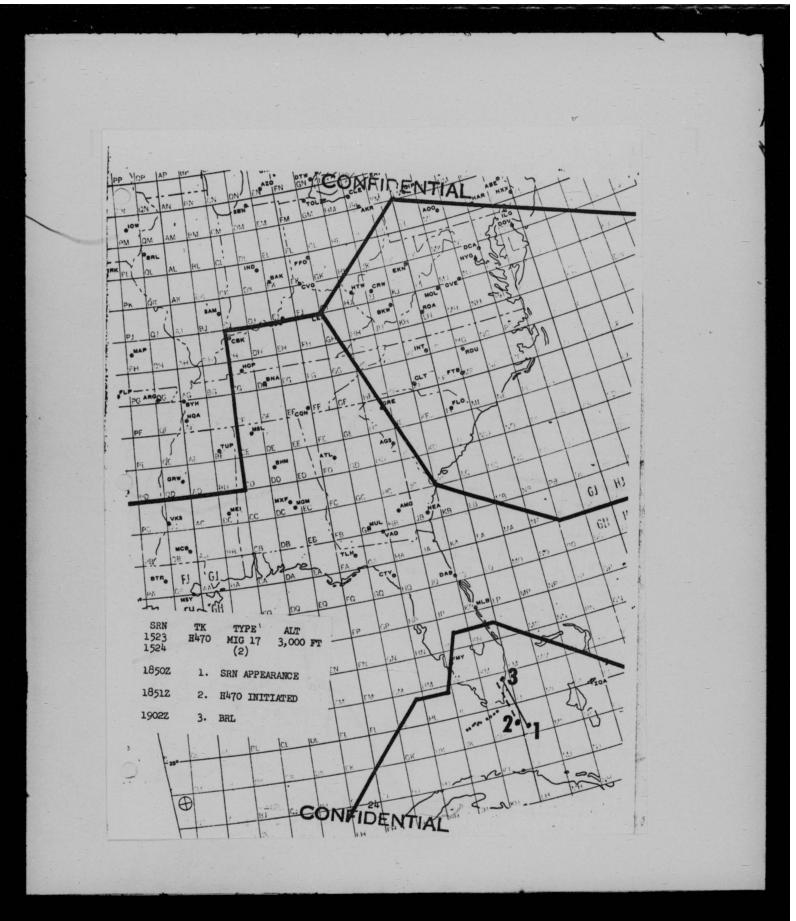
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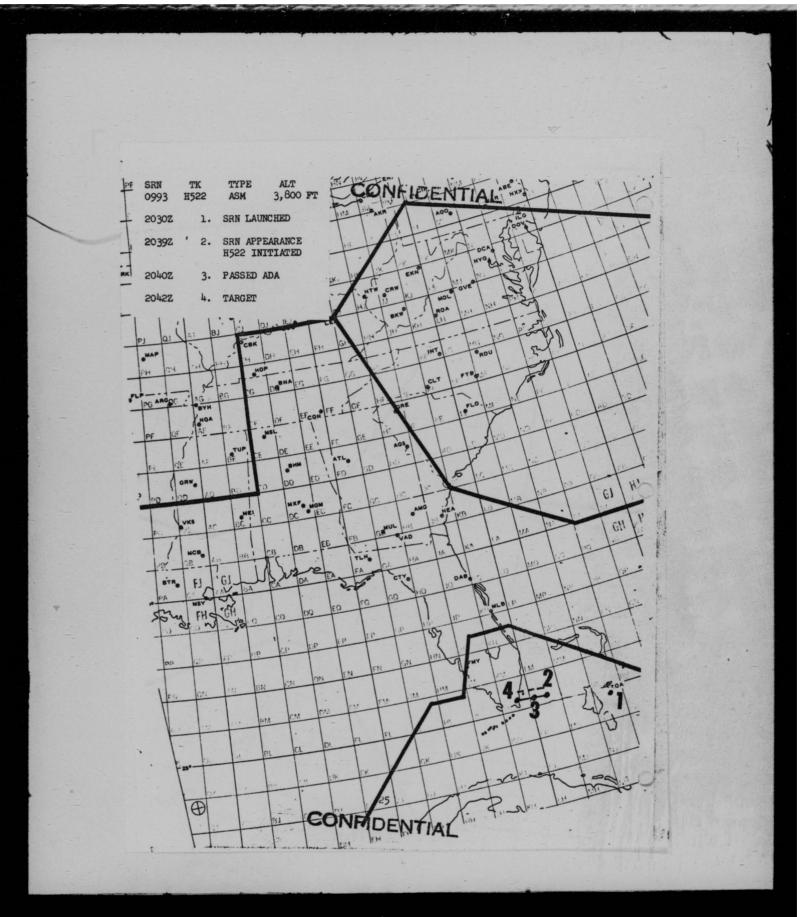
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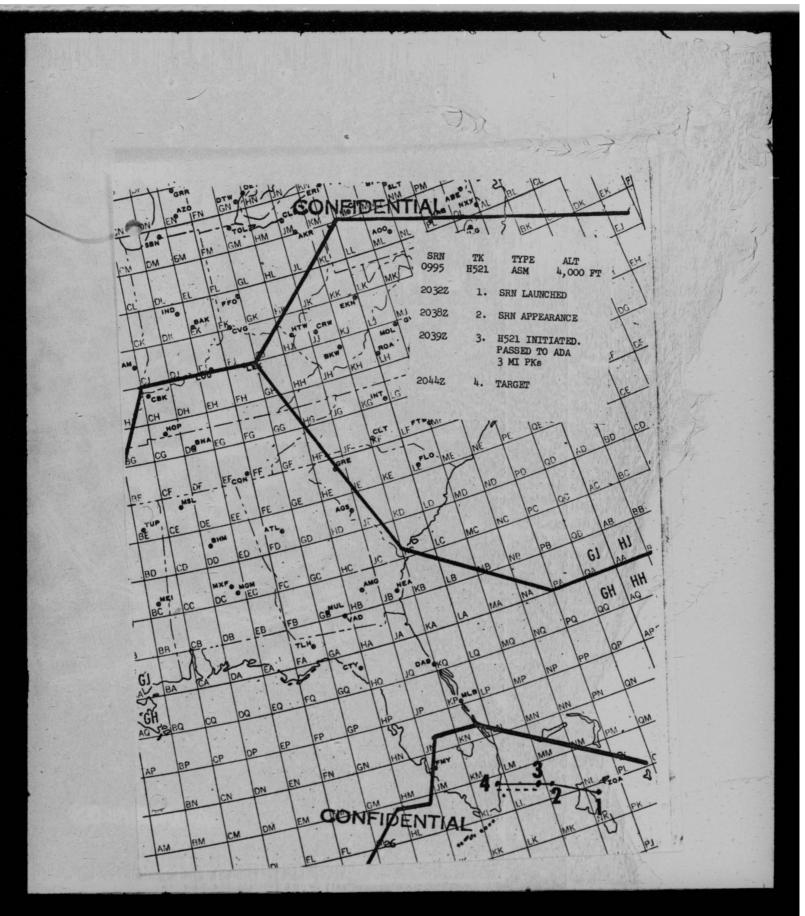
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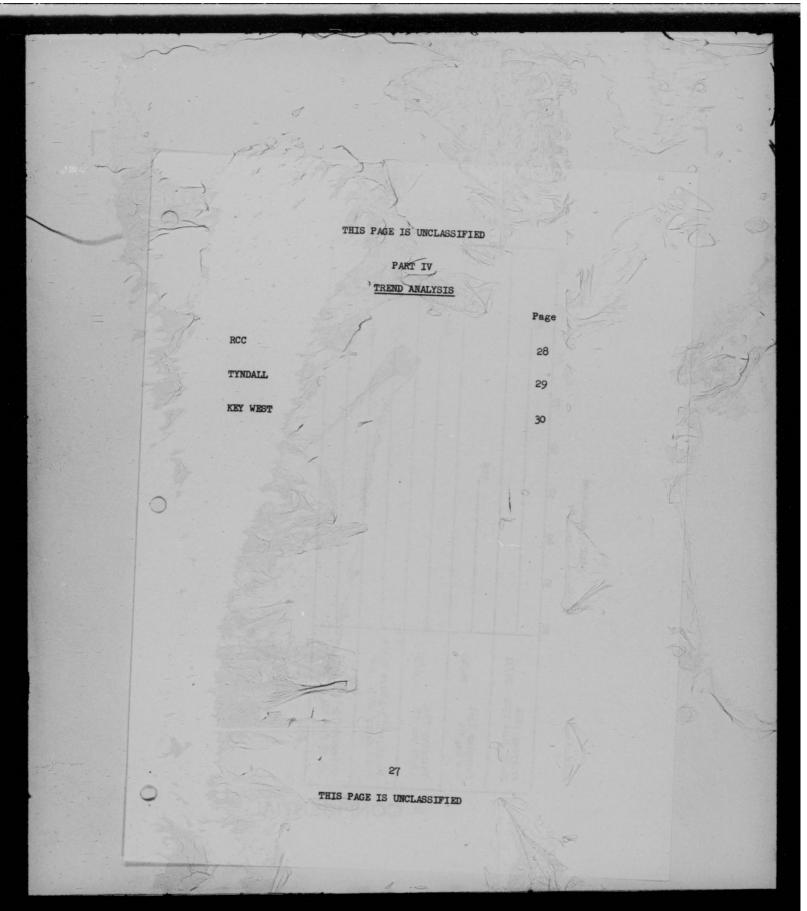
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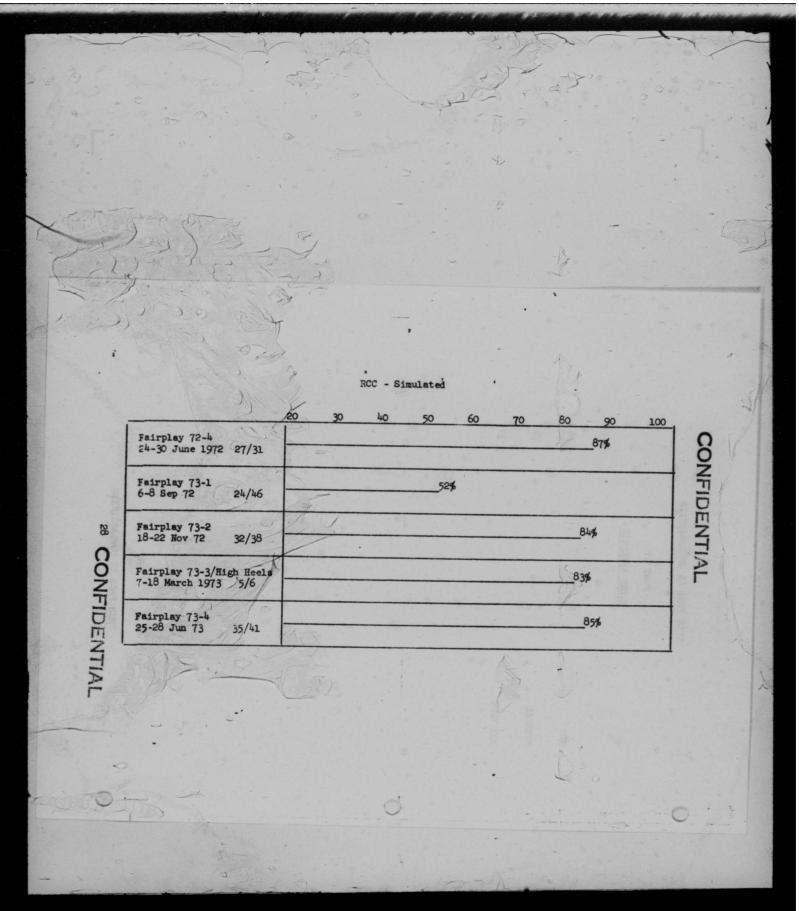
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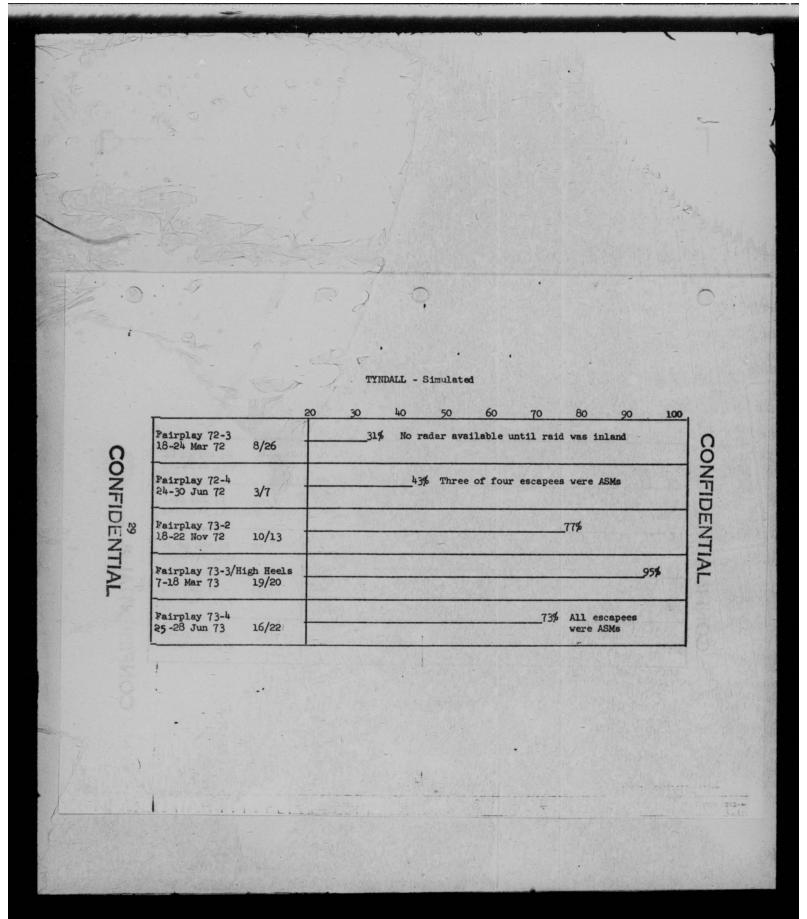
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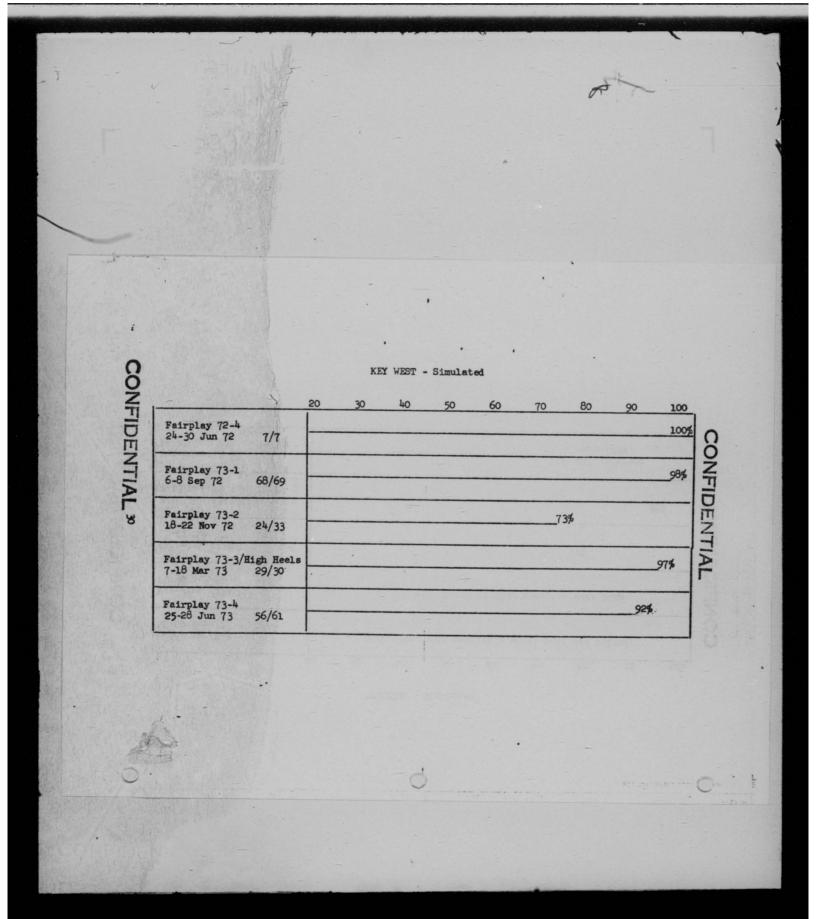
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PROBLEM ACTION REPORTS
(Based on Commander's Summaries)

#### 1. TYNDALL

a. Problem: (S) "Some airlift replies between 20RCC and NORAD did not info TBNCC. This precluded TBNCC BSSC in keeping abreast of movements of personnel/material within the Region, and restricts the TBNCC if required to assume ALCOP operations. Proposed solution: Info TBNCC BSSC on all movements requested and/or approvals pertaining to Region resources."

NOLOG OPR Action: (C) This comment is accurate. Action by the BSSC Transportation Section was incomplete in that the ALCOP was not notified of moves approved by NORAD and the departure-arrival times of the moves. All messages requesting airlift support reflect the 678th Air Defense Group/BSSC as info addressee.

b. Problem: (S) "The lack of turnaround capability at dispersal bases restricted the flow of interceptors to conduct the air battle. Proposed solution: Deploy weapons and load crews to bases IAW 20NR OPORD 3000 in advance of the air battle phase to allow flexibility in turnaround capability."

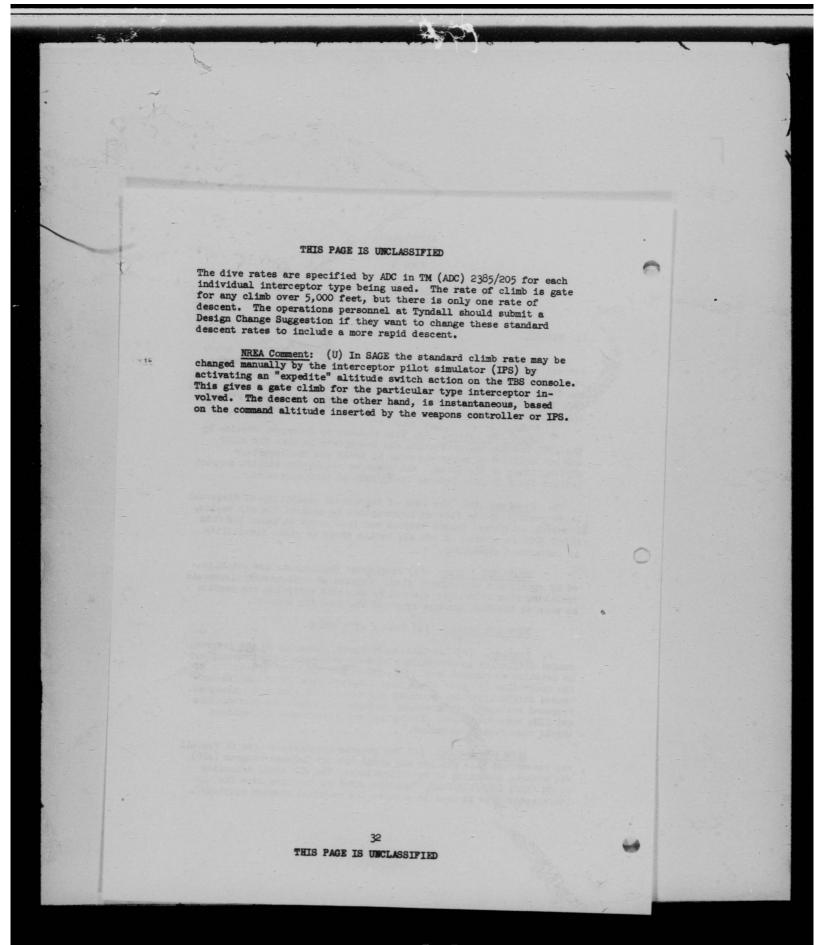
NOLOG OPR Action: (C) Preplanned deployments are established by applicable contingency plan. Support of deployments/dispersals resulting from situations created by exercise scripting are handled as soon as the BSSC becomes aware of the need for support.

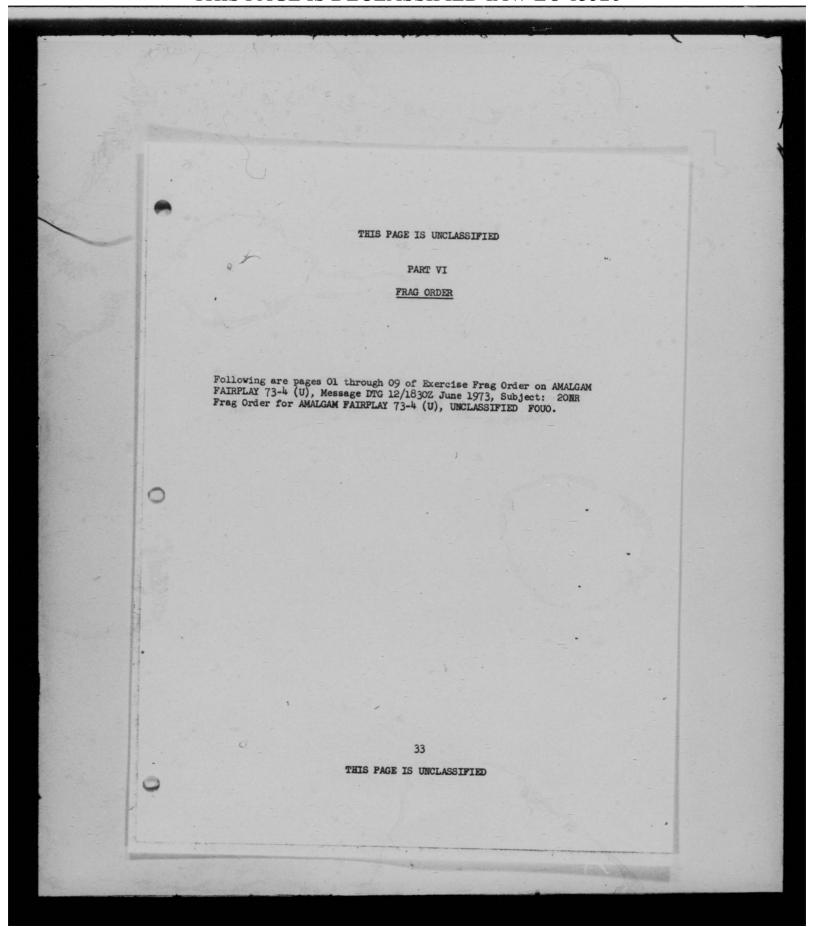
DOTW OPR Action: (U) Concur with NOLOG.

c. Problem: (S) "Simulation Problems, inherent to the program, caused difficulty in obtaining realistic responses from interceptors in relation to command headings. Speed and altitude - inability of the controller to order other than standard rates of climb/descent caused difficulties not normally experienced in real world missions. Proposed solution: Programming personnel observed the malfunctions and PIRs were submitted. Evaluation and recommended corrections should come from Programming."

DOPM OPR Action: (U) The program maintenance team at Tyndall has researched this problem and found the Air Defense Program (ADP) was working according to specifications. The ADP uses, according to TM (ADC) 2385/105/01AD, "maximum climb or the dive rate for the interceptor type is used to acquire the required command altitude".

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3	OINT MESSAGEFORM
	AFTER OR PROGRAMME
- 01 or 09	RR RR CCCC DATE TIME MONTH YR
YES YES	MESSAGE HANDLING INSTRUCTIONS 12/8302 JUN 73
	FROM: 20 NORAD RGN FT LEE APS VA
	TO: AIG 8750
1	XMT 702 RADRON SAVANNAH AFS GA
	31 ARTY BDE HOMESTRAD AFB FLA ADM-SC
	644 RADRON HOMESTRAD AFB FLA DOK
	671 RADRON KEY WEST NAS FLA DOT
	678 ADGP TYNDALL AFB FLA DO-X
	701 ADGP FT FISHER AFS NC DO-X
	630 RADAR SQDN HOUSTON FAA TEXAS DOT
	ARNOLD ENG DEV CNTR (AFSC) ARNOLD AFS TENN DEP
	HQ 2 CMBT SPT GP (SAC) BARKSDALE AFB LA 2CSCP/CMVP
	14 FLY TNG WG (ATC) COLUMBUS AFB MISS DOOYD
	29 FLY TMG WG (ATC) CRAIG AFB ALA DOOXD
	ARMAMENT DEV & TEST CNTR EGLIN AFB FLA ADTC/DO
	2078 AIR BASE GP (AFRES) ELLINGTON AFB TRYAS DOZ
5	25 CMBT SPT GP (TAC) ENGLAND AFB LA OT
3	HQ 101 AIRBORNE DIV FT CAMPBELL KY AJCGC-PO
2	US ARMY ARMOR CNTR FT KNOX KY AHBADPT-PO-C
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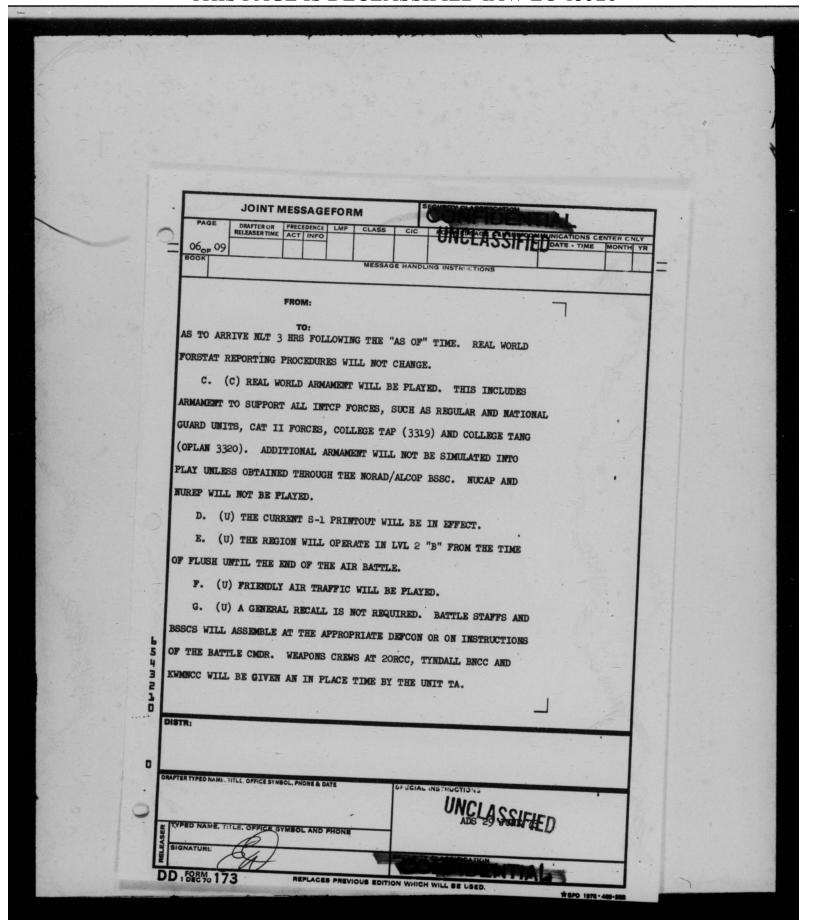
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HQ FT MCPHERSON/FT MCPHERSON	GA AJXPT
HQ FT POLK/FT POLK LA ABLE-DI	r (NBC)
US ARMY AVIATION CNTR FT RUCK	CER ALA AJRDPTS-PO
NAS GLYNCO/GLYNCO GA SED	
NAS MERIDIAN/MERIDIAN MISS AC	DE-120
US ARMY MSL CMD REDSTONE ARSE	
RED RIVER ARMY DEPOT TEXARKAN	IA TEXAS AMXRR-AM
NAS SAUFLEY PENSACOLA FLA COD	
NAS WHITING MILTON FLA CODE A	
702 RADRON SAVANNAH AFS GA DO 632 RADRON ROANOKE RAPIDS AFS	
649 RADRON BEDFORD AFS VA DOT	
771 RADRON CAPE CHARLES AFS V	
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	DET 5/14 MSL WNG SQDN FT FISHER AFS NC	CC
•	DET 7/14 MSL WNG SQDN MACDILL AFB FLA	
	CMDR 1ST RGN ARADCOM STEWART AFB NY ADA	
	21NR HANCOCK FLD NY NREA	
	22NR NORTH BAY ONTARIO CANADA EXE	
	23NR DULUTH IAP MINN NREA	
	24NR MALMSTROM AFB MONT NREA	
	25NR MCCHORD AFB WASHINGTON NREA	
	26NR LUKE AFB ARIZ NREA	
	ALASKAN NORAD RGN ELMENDORF AFB ALASKA	NREA
CONFIDENTIAL 2	ONREA FOR CMDRS, OPERATIONS AND TRUSTED AGENT	S
SUBJ: 20NR FRA	G ORDER FOR AMALGAM FAIRPLAY 73-4 (U)	
5	O OPORD 3700	
1. (C) SITUATION	N. 20NR WILL PARTICIPATE IN AMALGAM FAIRPLAY 7	3-4
DURING THE LIAB	LITY PERIOD 25/1200Z-29/2300Z JUN 73.	
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	ADS 29 JUN 73	

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FISHER BNCC, 48FIS, DET 2/552 AEW&C, ANG FIS AND RADAR SQDNS.
C. HOUSTON MNCC WILL PARTICIPATE BY RECEIVING, ACKNOWLEDGING
AND AUTHENTICATING VOICE ALERT FORMATS ONLY.
D. NUDET SIGHTINGS AND BATTLE DAMAGE SCRIPTS FOR STATIC
MISSILE IMPACTS WILL BE INPUT AS APPROPRIATE FROM NON-NORAD UNITS.
E. THE NORAD ALCOP WILL PARTICIPATE INSTEAD OF THE NCMC.
4. (C)(U) GROUND RULES ARE AS STATED IN APPENDIX 5 TO ANNEX C
TO CINCNORAD OPORD 3700 EXCEPT AS ADDED, DELETED OR AMPLIFIED
BELOW:
A. (U) SIMULATED AEWRC WILL BE AVAILABLE FOR MANNING NORMAL
WAR TIME STATIONS AND PROVIDING THREAT TELL INFORMATION ONLY.
5 ALL FUNCTIONS WILL BE SIMULATED AT THE RCC.
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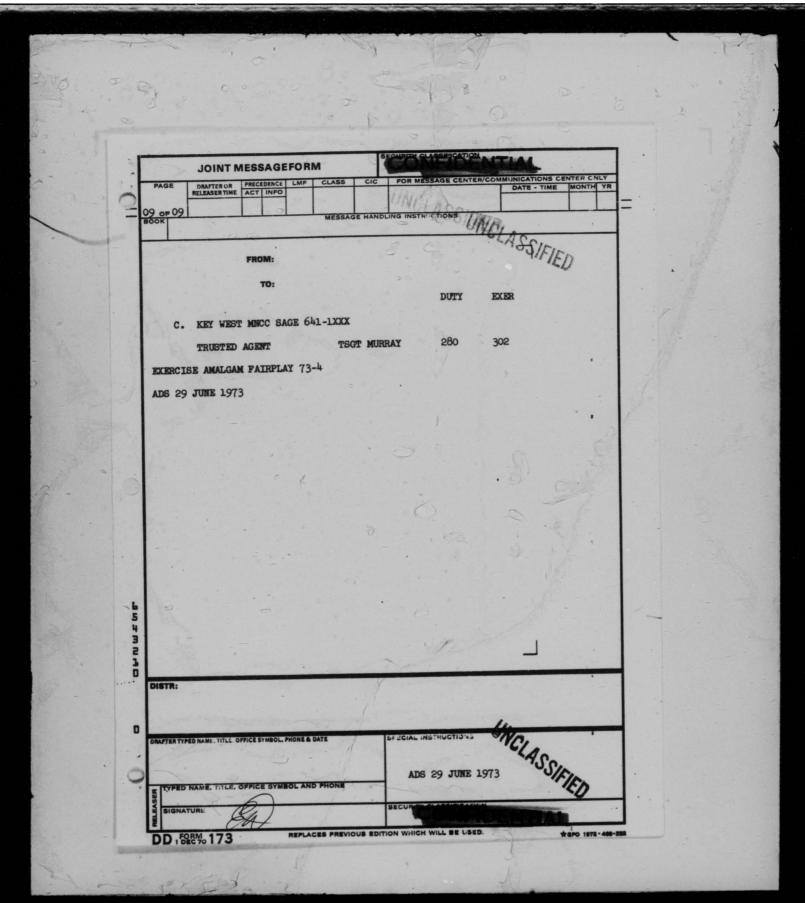


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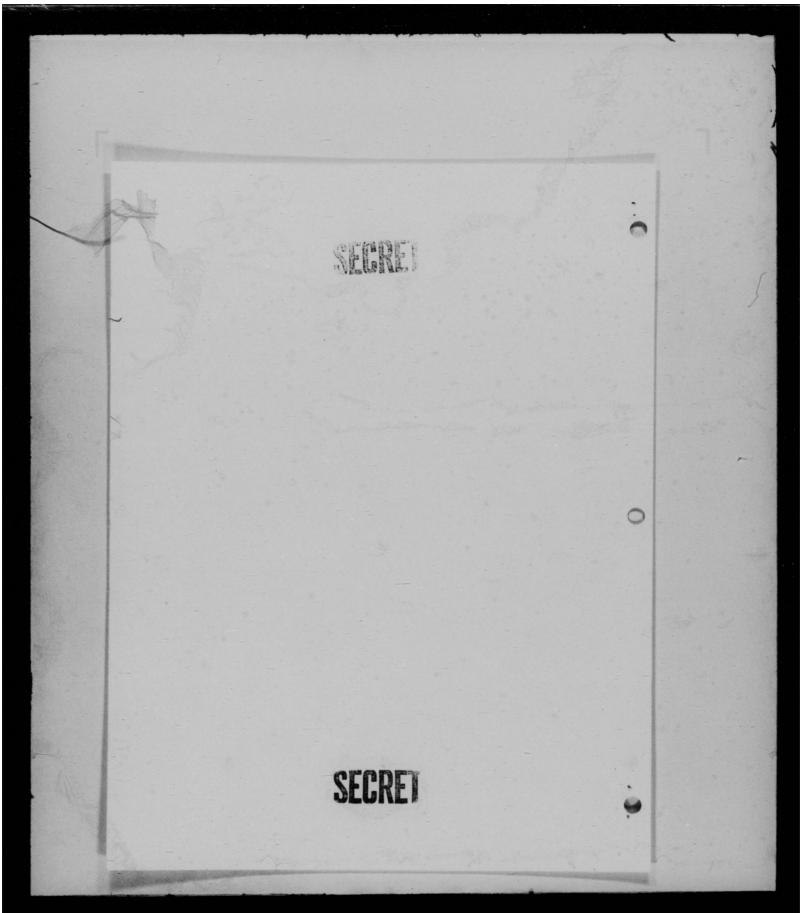
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UNDER OPCON 20NR IS INVITED TO SUE		
C. PARTICIPATING AADCPS WILL	FORWARD DATA EXTRACTED FROM	
COLUMNS 2, 5, 8, 10 AND 11 OF NORA		
AFTER FADEOUT. THE SRN WILL BE IN	CLUDED WITH THE SAGE/BUIC	1
TRACK NUMBERS.		
D. THE RCC WILL PROVIDE WD AN	D IND LOGS. IMMEDIATELY AFTER	
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IS A MATTER OF COMMAND INTEREST.	
7. (U) EXERCISE CONTROL GROUP DUTY EXER	
A. 20NR SAGE 332-1XXX/GP 687-4008	
EXERCISE DIR/UMPIRE MAJ DOLAN 701 337/772	
ASST EXERCISE DIRECTOR MAJ CYR 701 337/772	
ARMAMENT COORD SSGT CARPENTER 701 237	
BATTLE DAMAGE COORD SSGT SHAFFER 701 279.	
SIM SWITCH 280	
AIR BASE SIM 246/249/256/276	
B. TYNDALL BNCC SAGE 645-OXXX	
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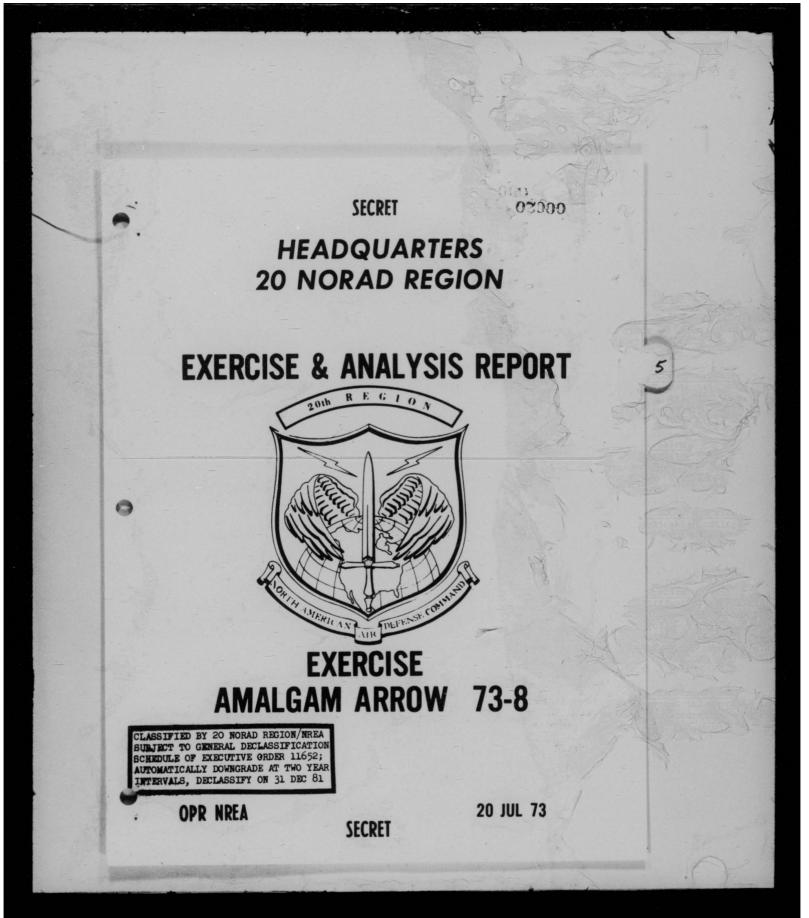
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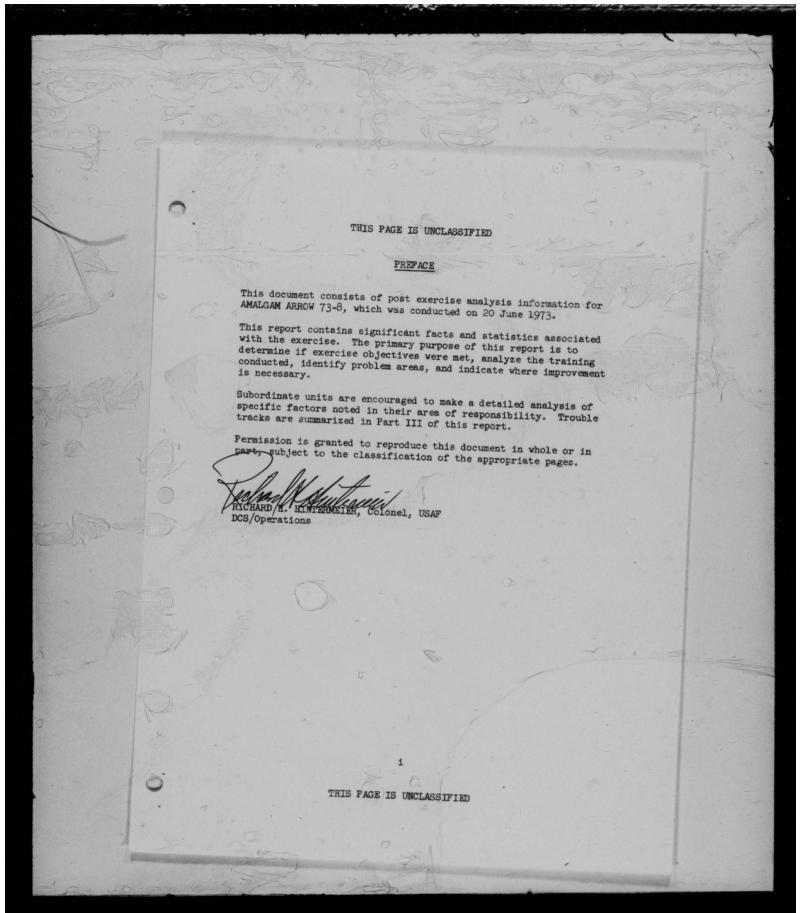


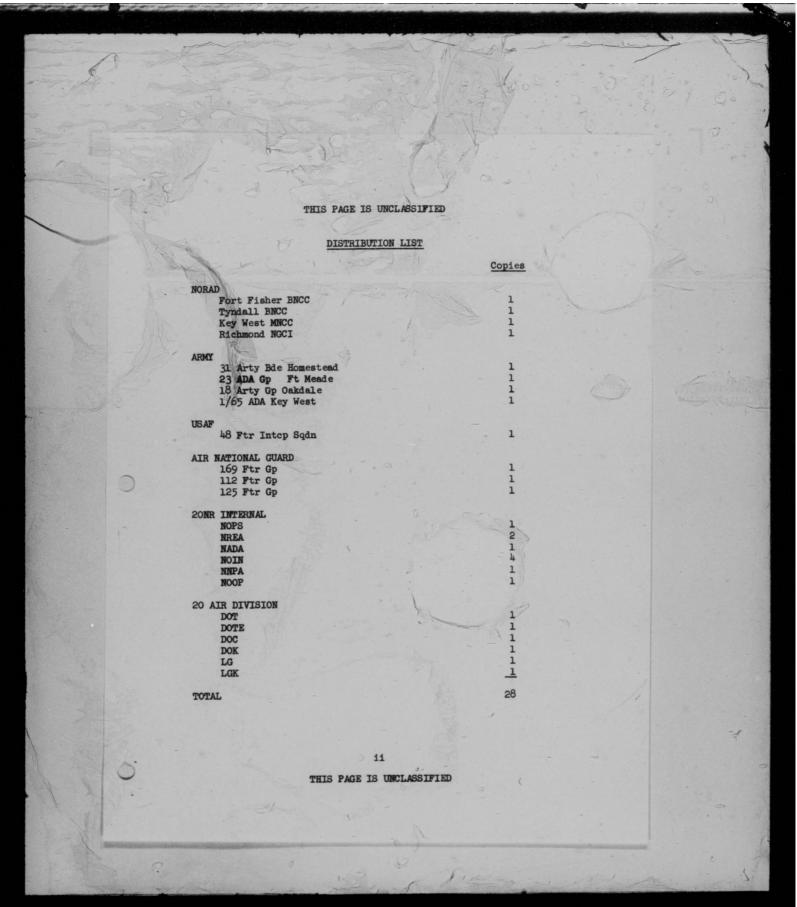
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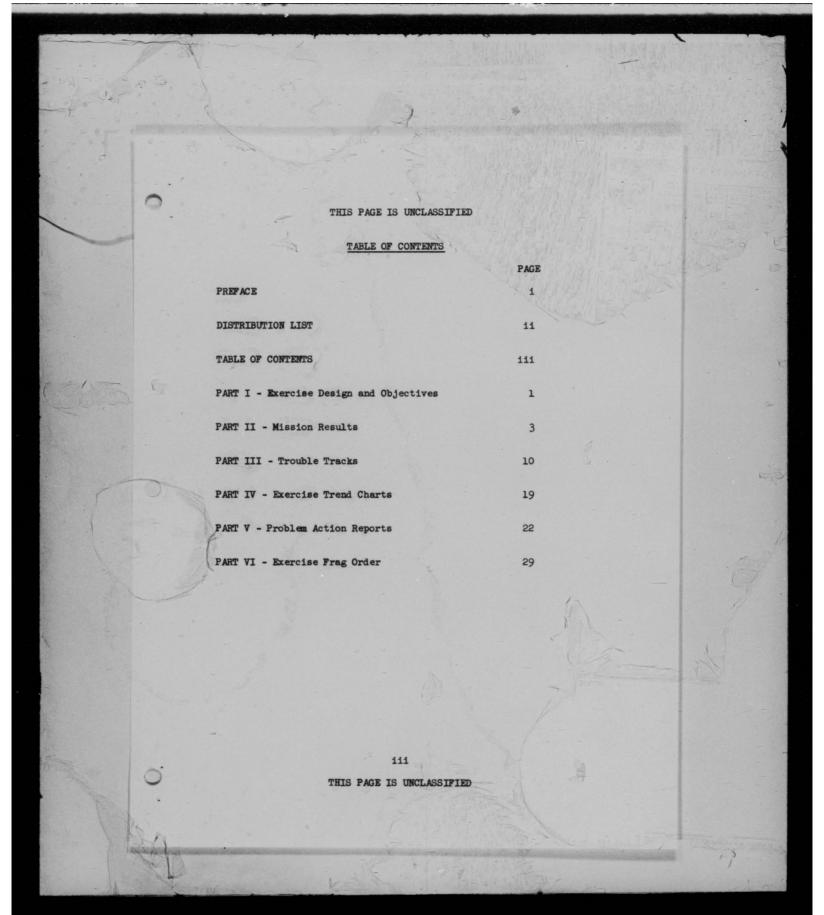
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PART I

### EXERCISE DESIGN AND OBJECTIVES

- 1. Exercise Design:
- a. Amalgam Arrow 73-8 was designed as a multi-region exercise with a large attacking force employing intensive ECM/Chaff. Weather drastically reduced eligible targets for Key West. Weather, air/ground aborts, reduced the target force for the region.
- b. Ninety-two aircraft were scheduled to fly during the exercise with the heaviest concentration in Tyndall's area. Sixty-seven aircraft, 69 faker targets, actually flew. The 20th practiced flush procedures at LFI and PIT. Level I and IV were
  - c. No AEW&C participation was required.
  - d. Houston MNCC acknowledged voice alert formats only.
- e. Amalgam Arrow 73-8 was the first exercise in three years where a Gulf threat was executed.
  - f. Twenty-five of the 69 faker's routes employed ECM and Chaff.
- 2. Objectives: (NORAD Objectives)
- a. Exercise NORAD air defense components within the 20th and 21st NORAD Regions.
- b. Exercise safe passage of interceptors through ADA Defense within both regions. This was accomplished. No problems have been received regarding safe passage.
- c. Exercise the capability for passive detection, tracking and interception of ECM targets. Very little passive tracking was possible in Sector I. Some strobes from the 21NR were available, but very little ECM was observed in Sector I for the RCC. Tyndall reported good passive tracking training in Sector II.
- d. Exercise FIS flush procedures at Pittsburgh IAP, Lengley AFB and Jacksonville IAP. No flush was attempted at Jacksonville due to mandatory weather conditions. The flush (6 aircraft) at Pittsburgh was without problem. The flush at Langley (7 aircraft) was delayed several minutes, but otherwise was good. Pittsburgh aircraft were all airborne in 13 minutes. The runway construction at Langley caused approximately 20 to 30 minutes of delay on some aircraft. The first Langley MG was airborne at 0230Z, the last at 0248Z.

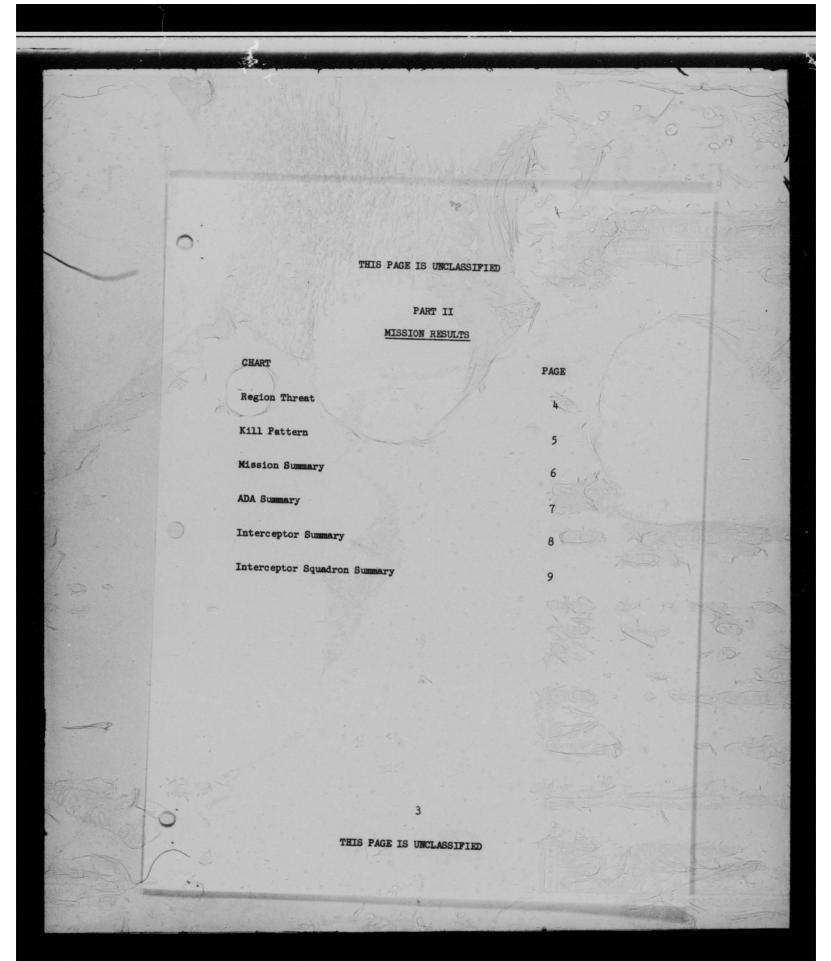
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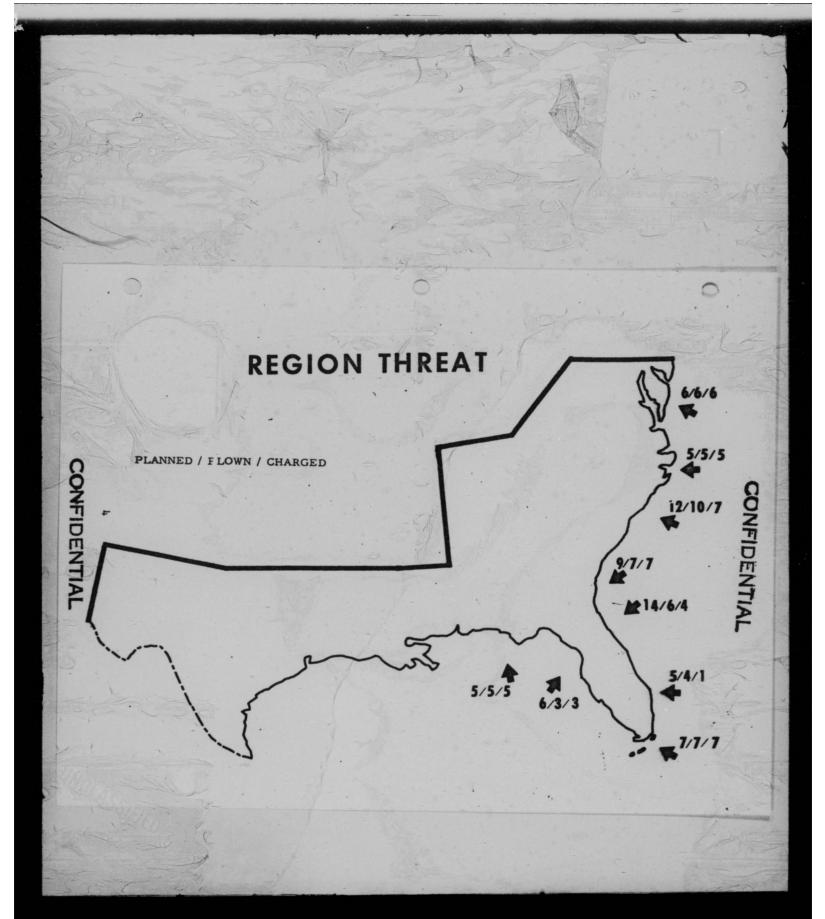
- e. Exercise general recall of 20 personnel. The recall at the AFS was much better than some in the past. Most previous problems were corrected. Two problems were noted:
  - (1) NCOD was rather slow with his calls.
  - (2) Overall, more hustle is required.
- f. To annotate and evaluate interceptor and ADA kill patterns. A good kill pattern was achieved. The absence of kills in the Key west area reflect the lack of targets as all six T-33s scheduled
- 3. Region Threat: Sixty-nine routes were flown by 67 aircraft. Ten target routes were multiple aircraft "holding hands". Some aircraft had multiple IPs. Of the 69 routes, 51 were charged (18 flew and were not charged): 13 RCC, 6 Fort Fisher, 25 Tyndall and 14 for Tyndall.

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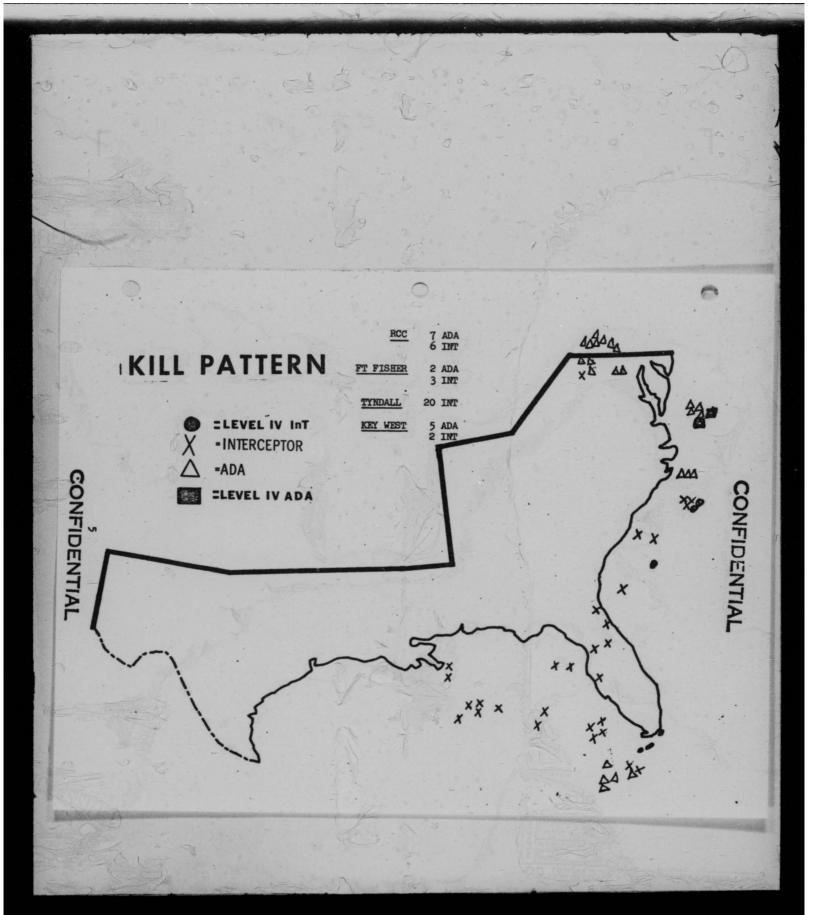
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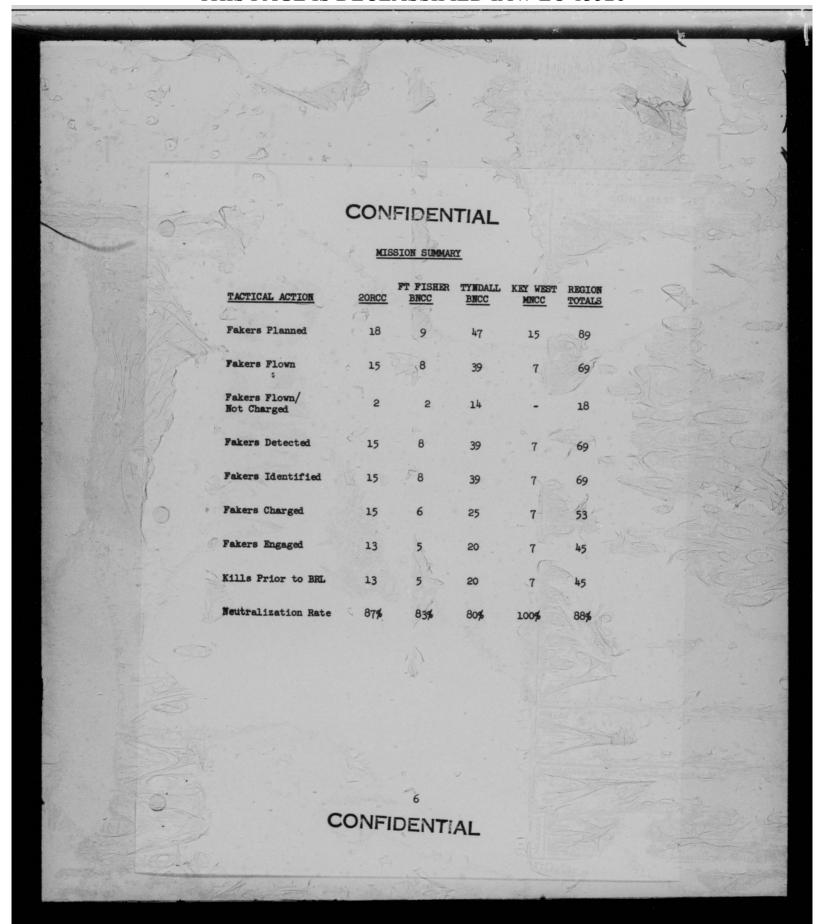
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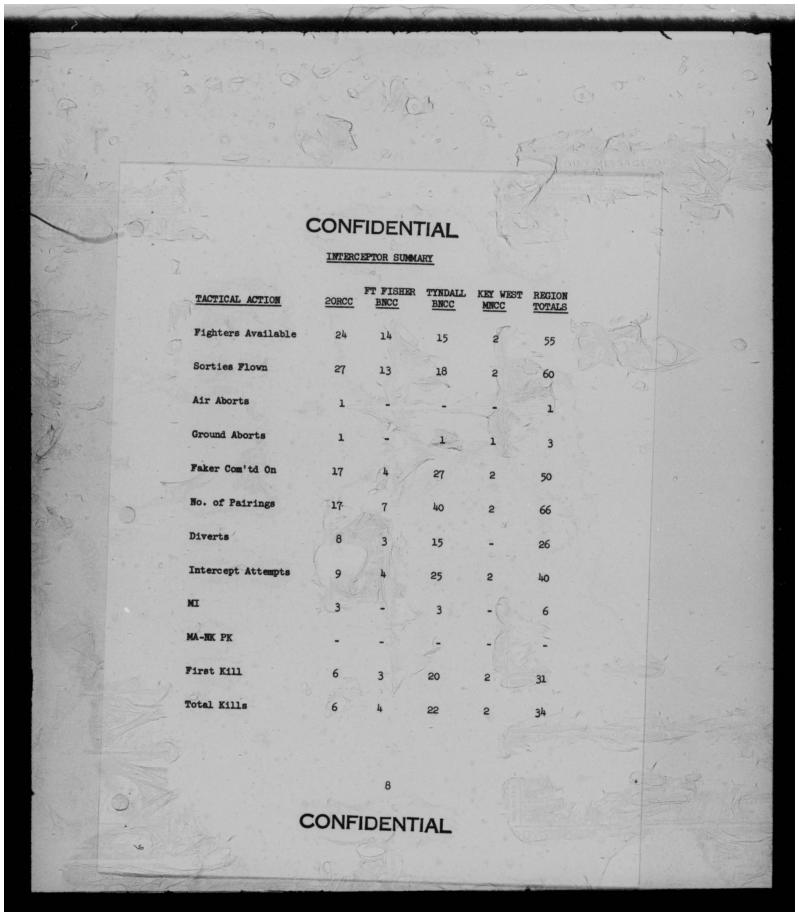


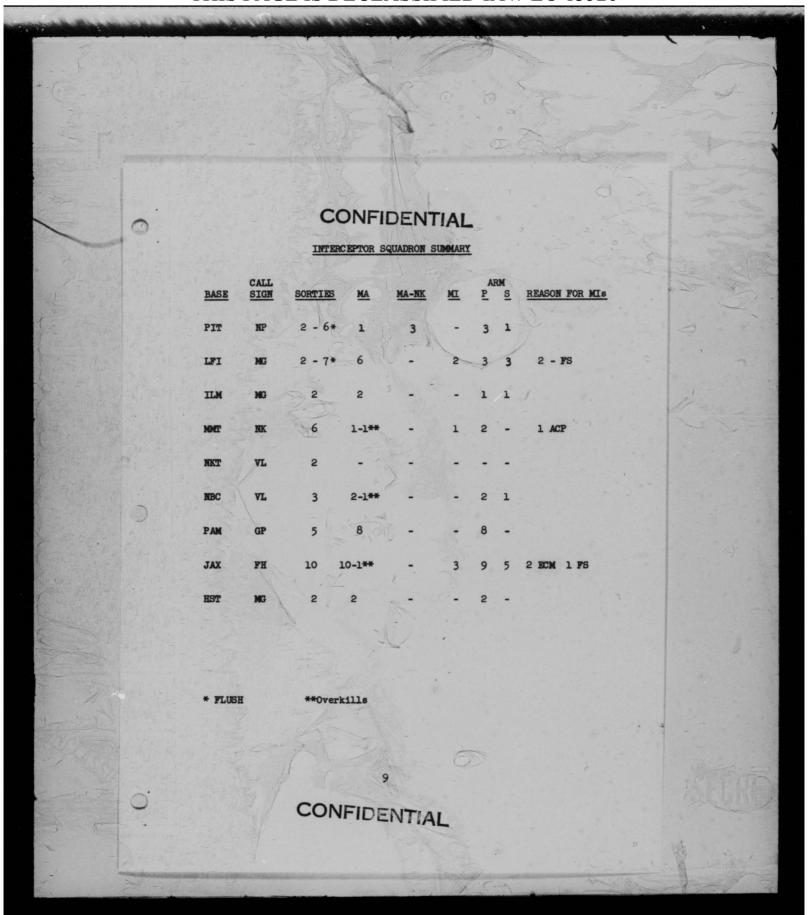
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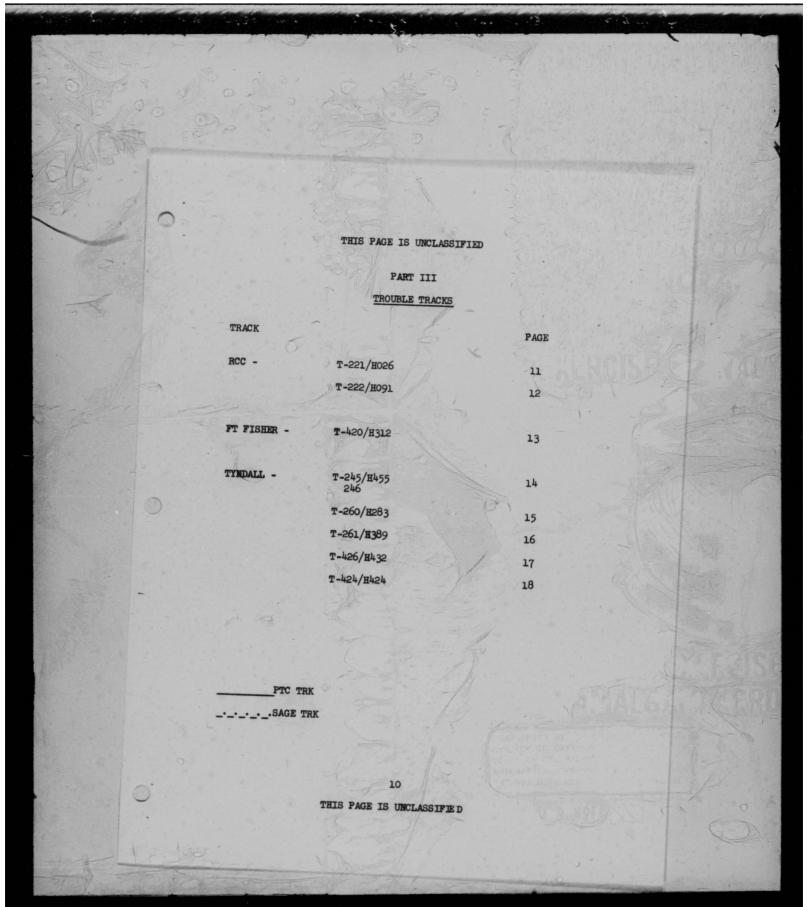
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# CONFIDENTIAL ADA SUMMARY FT FISHER ADA Fire Units 11 11 11 33 Missiles Available HAWK/HERC Fakers Engaged 60 Missiles Expended 60 MA/First Kill 14 Overkills 43 Kills 57 MIs \*Intentionally left blank \*\*1 Hold Fire; 2 PK CONFIDENTIAL





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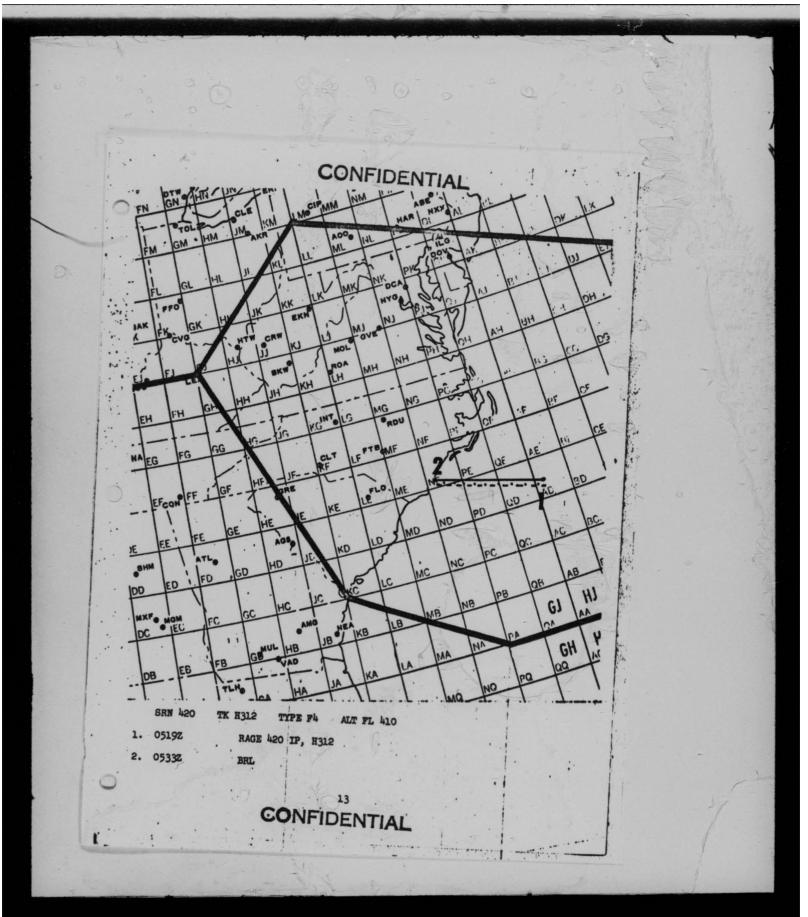
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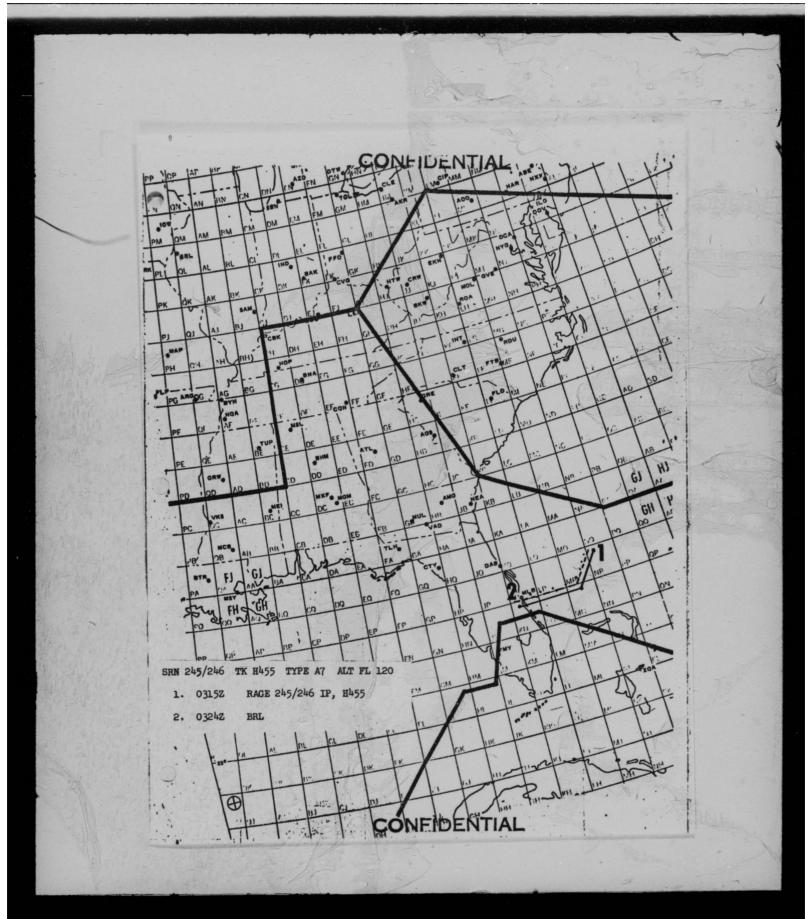
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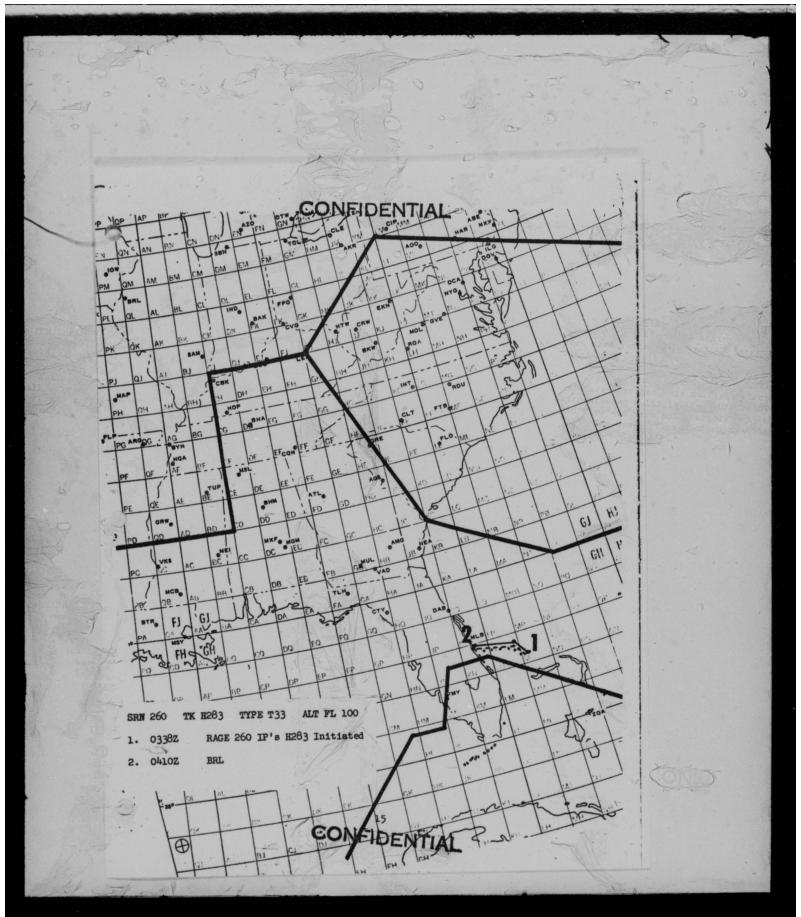
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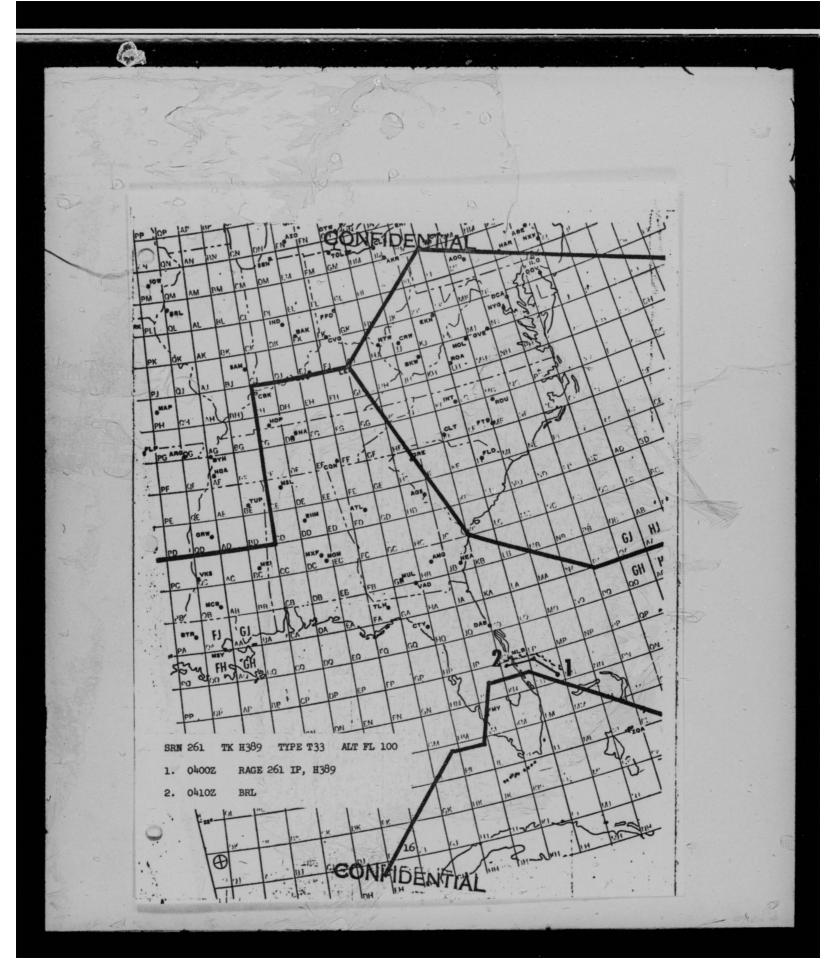
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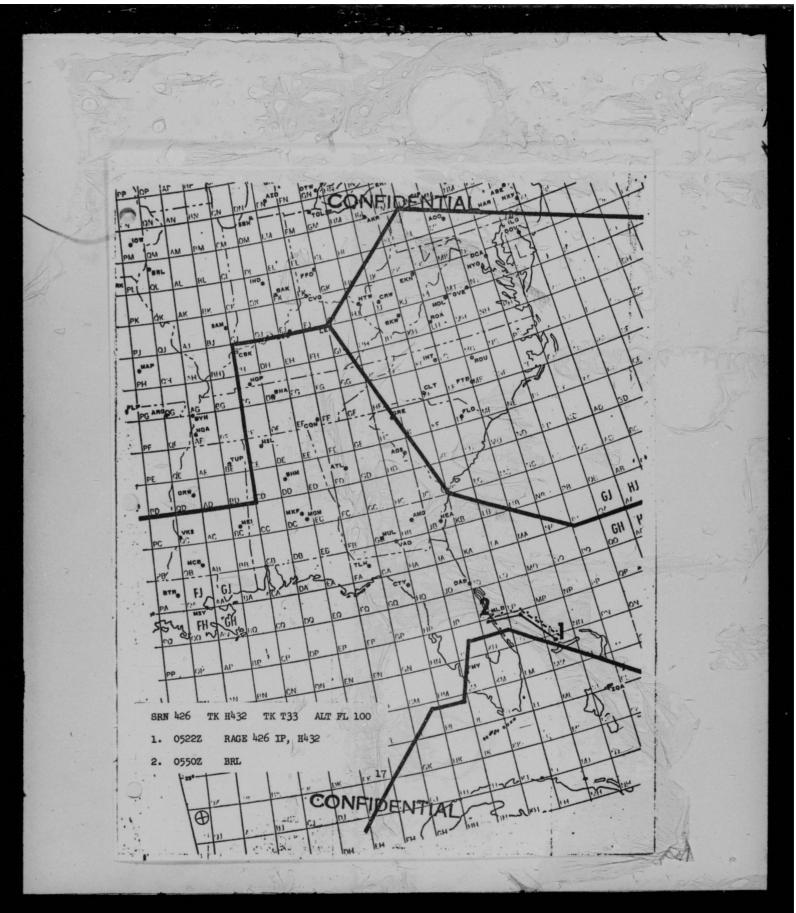
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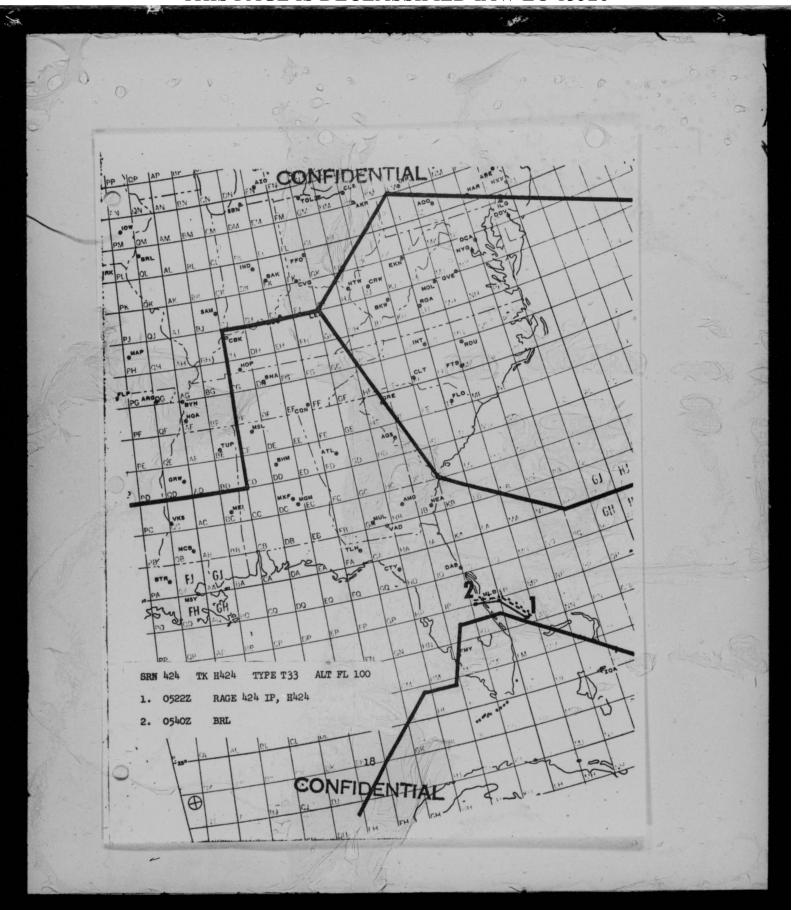
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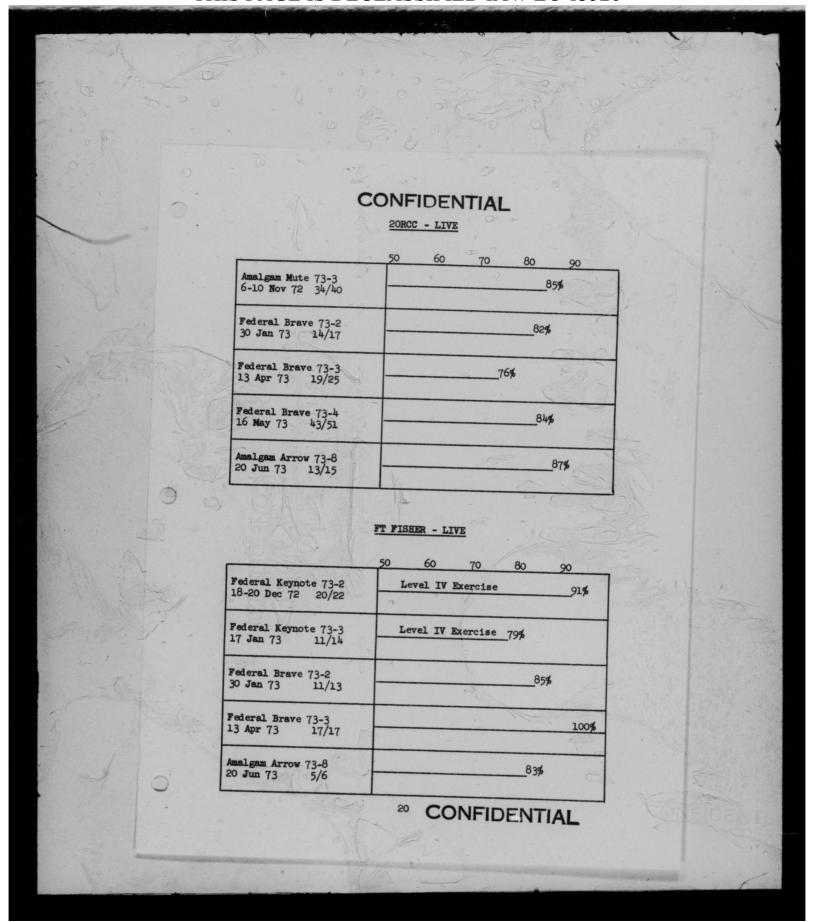
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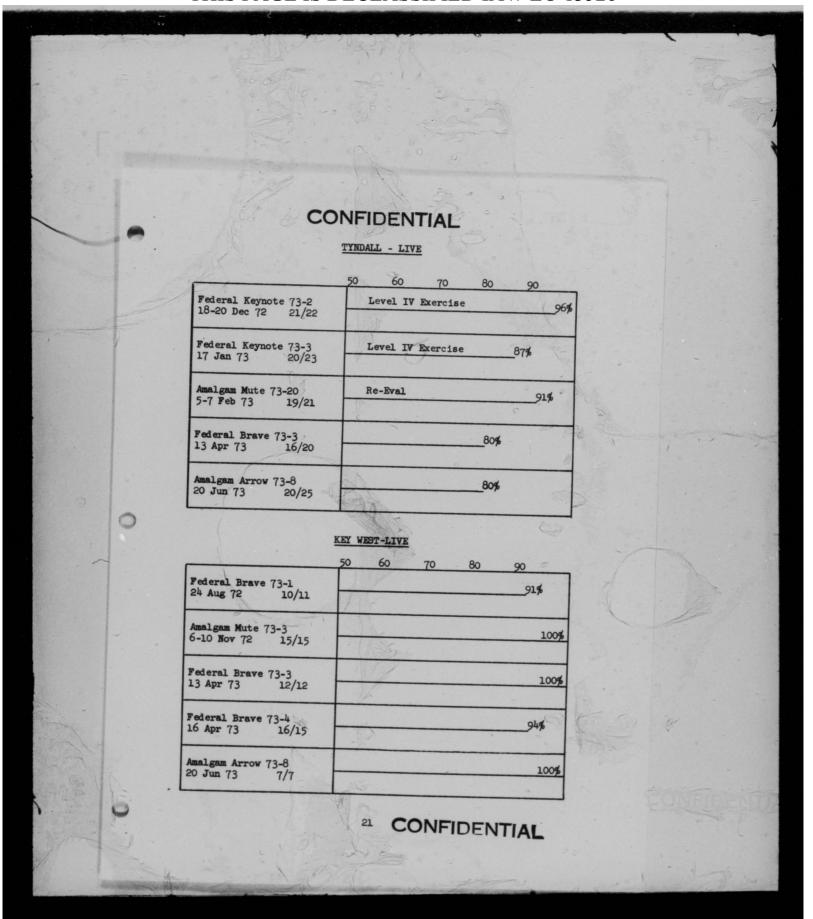


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### CONFIDENTIAL

PART V

PROBLEM ACTION REPORTS
(Based on Commander's Summaries)

#### 1. Key West:

a. Problem: "Inadequate procedures from Tyndall BNCC during Levels 1B and 4, and lack of information from PTC personnel on faker tracks penetrating the complex from the north."

DOTE OPR Action: Due to the unusually large number of target tracks, Tyndall BNCC Surveillance and PTC personnel were completely saturated. This problem can be expected to continually recur as long as TENCC is scheduled for an overwhelming number of targets. There is no action appropriate to this office.

b. Problem: "The six T-33 aircraft staged at NQX cancelled their ALTRVs at about 20/2000L. The pilots notified the strike force target monitor at the 21st NR. These cancellations were not passed to the 20th NR for about two hours. At about 20/2220L, the trusted agent at Key West called the trusted agent at 20NR and advised him that they had talked to one of the target pilots who stated they had cancelled their ALTRVs."

NREA OPR Action: The Arrow Project Officer at 20NR eventually received a call from the Target Force Monitor at 21NR concerning the cancellations. Two errors caused the problem at Key West. First, the target force commander cancelled his six target routes too early. Second, the notification to 20NR should have been to the trusted agent and not the project officer.

c. <u>Problem</u>: "Level IV Transition: Recommend increased emphasis on Level IV/ALCOP training to establish adequate procedures for all personnel."

DOTE OPR Action: DOTE will develop a regularly scheduled program of Level IV/ALCOP training for Tyndall BNCC.

#### 2. Fort Fisher:

<u>Problem</u>: "A problem with lateral tell between Ft Fisher and TBNCC was experienced. Our maintenance and programmer along with TBNCC personnel were unable to find the cause of the problem. Ft Fisher will coordinate with TBNCC and conduct a special test and attempt to resolve the problem."

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CONFIDENTIAL

## SECRET

#### DOPM OPR Action:

- a. Two lateral tell tests were conducted the week of 25 June between Tyndall BNCC and the on-site programmer at Ft Fisher BNCC. The first test conducted on 27 June resulted in a failure to establish lateral tell between the units. There were numerous attempts made to bring-up the lines, but to no avail. The second test on 28 June found the entire system working perfectly. Operational status message and track symbology information was successfully passed between the two units. The lines remained operating properly for the entire  $l\frac{1}{2}$  hour duration of the test.
- b. The same procedures were used in the conduct of both of these tests. The primary difference between them was that the 27 June test was a transition with both BUICs cycling, while the 28 June test began with an initiate startup after the BUIC Test Switch was taken at the RCC. This means there could be a problem associated with the transition procedures.
- c. The most logical explanation in my opinion is that there was an operational procedure breakdown somewhere along the line. The transition procedures are no longer familiar to the personnel remaining at Ft Fisher or to the deployment teams going there. There are many variables which enter into the successful completion of the lateral tell line. Checklists should be devised to guard against future procedural oversights.

#### 3. Tyndall:

a. Problem: "The south RICMO loop was dropped and re-established approximately ten times because of feedback noise. Tyndall and Patrick LRRs were blocked from access to the loop, thus impeding RICMO coordination. The problem was apparently due to unauthorized persons dialing into the loop using incompatible equipment."

DOK OPR Action: The conference bridge used for the southern RICMO loop is a 10 leg "Meet Me" (See ADC Gray Book, General Information, Page 5, Conferencing). Conference bridge troubles will be handled IAW 20NRR 100-1, Atch 6. Tyndall BNCC should provide this HQ/NOCE-C a complete list of conferees and the type of line/equipment used at each location.

DOTE OPR Action: 20th Air Division (DOTE) will insure that the RCC/BNCC RICMOs and radar site anti-jam operators are aware of the necessity to maintain strict loop discipline. They will insure that no more than one instrument at each location is used, and that no unauthorized individuals are dialed into the loop. In addition, all personnel will be educated in the correct problem notification procedures.

23 SECRE

# SEGRET

Problem: "From 0500Z to 0616Z, while the 20th NR was in Level 4A, there was no automatic lateral tell between TBNCC and FFBNCC. TBNCC showed FFBNCC as being in the 'active mode', but FFBNCC reported they were showing us as 'out of action'. Manual tell was used during the Level 4 operations. The TBNCC manual inputs read into the computer the level 4A PCAM card deck twice to start tell to FFBNCC. The 20th NR Senior Director reported that the 'BUIC training' switch action had been taken. TBNCC computer. maintenance checked their message processor switch setting and reported that they were all properly set. The message processors were checked thoroughly prior to the mission and functioned properly in all levels used in Amalgam Arrow 73-8. Telco reported that the TBNCC-FFBNCC tell lines were properly dialed-up and were operational. The 678 ADGp programmers asked FFBNCCs programmers to reduce their tape to determine if tell data were received from TBNCC during Level 4A. Proposed Solution: The TBNCC and FFBNCC programmers and related personnel establish a time to check the tell equipment between the two agencies."

DOPM OPR Action: See DOPMs response to Fort Fisher's lateral tell problem on page 23.

c. Problem: "TENCC Weapons Controllers experienced radio difficulties throughout the mission from Jacksonville and Savannah. TAC Channel 4 at Jacksonville had a weak receiver and transmitter. ESR Number 172002 was opened at 0350Z and closed at 0350Z. TAC Channel 6 at Savannah also had a weak receiver and transmitter. ESR Number L100699 was opened at 0116Z and closed at 0150Z. The problem was reopened at 0343Z and closed at 0425Z under ESR Number L100700. These radio problems created confusion and potential flight safety degradation due to lack of alternate frequencies. Proposed Solution: Both Telco and Radio Maintenance Personnel have assured TBNCC that their equipment was working properly. The problem appears to be the interface."

PACE 02 once each month. As it is not feasible to increase the number of PACE flights for Dunmore, they should take the following

- (1) Check radios with available aircraft (ex Det 2, 48th
- (2) Check radios/lines site to site (BUIC console to Site GATR), within 24 hours of all scheduled missions.

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d. Problem: "Amalgam Arrow 73-8 introduced a Gulf threat for the TBNCC. That threat, plus the unusually heavy Eastern threat in Level 1B, caused the ID Oper, Surveillance (Height, Overlap Tell and Tracking) function to exceed the saturation point. The Surveillance Supervisor could not provide adequate supervision for the various functions. The ID Oper position was saturated to the point where times two was the only workable expansion resulting in time consuming scope repositioning. Proposed Solution: The TBNCC exercise director should be consulted in reference to PTC functions for any live missions involving the 20th NR and Tyndall. Recommend reconfiguring the BUIC comm panels to allow eight air to ground frequencies and assign two PTC frequencies. An alternative would be for the 20th NR to consider assuming the PTC function for the entire East Coast, but keep TBNCC PTC active in the Gulf. TBNCC PTC consists of two teams with only one UHF frequency. The problem experienced by the ID Oper and Surveillance Teams will be corrected through internal procedures and practice."

DOTE OPR Action: At the present time, it is not feasible to recomfigure the Tyndall BUIC ground/air comm panels.

RCC OPR Action: Communications are not available under the present configuration; however, if lines were released to the RCC PTC program, we would prefer not to perform the PTC function for another control facility, but rather prefer to operate in an "Alpha" configuration excluding the Gulf.

NREA OPR Action: Tyndall PTC has been invited to attend subsequent Arrow conferences. TBNCC had the exercise package 14 days in advance and the NORAD Exercise Director was made aware of their potential overload problem on the day of the exercise.

e. <u>Problem:</u> "The use of interceptors at MacDill would improve defense of the Gulf and the Southeastern portion of TBNCC area of responsibility."

 $\underline{\hbox{DOTW OPR}}$  Action: The use of interceptors at MacDill is not feasible for the following reasons:

- (1) Previous target threat analysis has not indicated a need.
- (2) Sufficient interceptor forces are not available for deployment to MacDill.

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SEGRET

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4. RCC:

a. Problem: "No low altitude airspace had been obtained in control areas (channels). INDs were required to coordinate at the time for use of these areas at low altitudes. Low altitudes in these areas should be obtained in advance, to preclude delays during the exercise which can cause INDs to break off interceptors in pursuit."

DOTST OPR Action: This item involves ALTRVs and questions concerning them. An in depth study will be made in concert with the August Arrow exercise, plus a joint 20NR/ARTCC workshop planning conference is scheduled for September 1973.

b. Problem: "Norfolk tower (and approach) was not manned to handle full interceptor traffic generated from Langley. At one time, for 15 minutes, they were unable to handle other than emergency air defense interceptors. FAA facilities should receive advance information on known increased workloads."

DOTST OPR Action: Increased workload was due to military aircraft, other than aircraft participating in the Amalgam Arrow exercise. Workload activity of 20NR was briefed and manned for by FAA.

c. Problem: "It took 18 minutes from time of decision to scramble before Cherry Point interceptors became airborne. GP AUTOVON to the base operator had to be connected to the 'IFR room' and then the scramble order was somehow relayed from there to the pilots before they could take off."

DOTW OPR Action: Although the time is excessive, it is due to communications limitations existing at Cherry Point, and long taxi times involved. More consideration should be given to airborne orders rather than scrambles at Cherry Point. Staff Visit is scheduled for 18-19 July 1973.

d. Problem: "Interceptor turnaround at Pittsburgh was slow. For example, three recoveries from flush were at 0317, 0326, and 0327. First three back on 5 status were at 0401, 0405, and 0405."

DOTW OPR Action: Turnaround times were necessarily long due to runway construction and delays for commercial IFR traffic. Greater Pittsburgh AP layout will cause excessive taxi times, depending on active runway and landing traffic.

e. Problem: "No BUIC coordinator was assigned at Tyndall."

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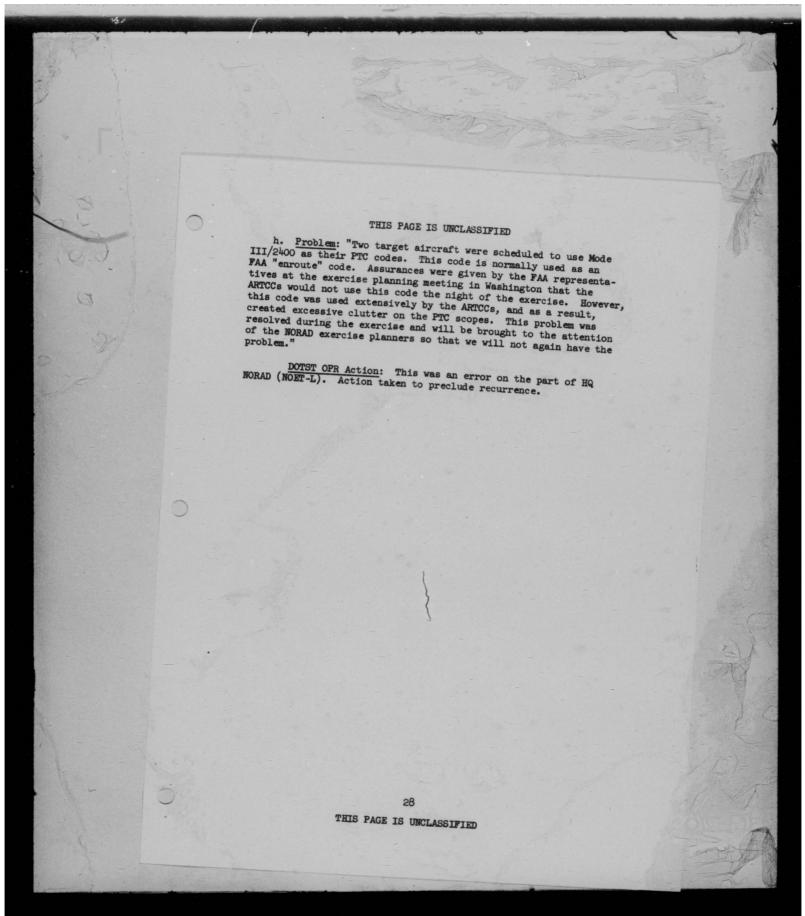
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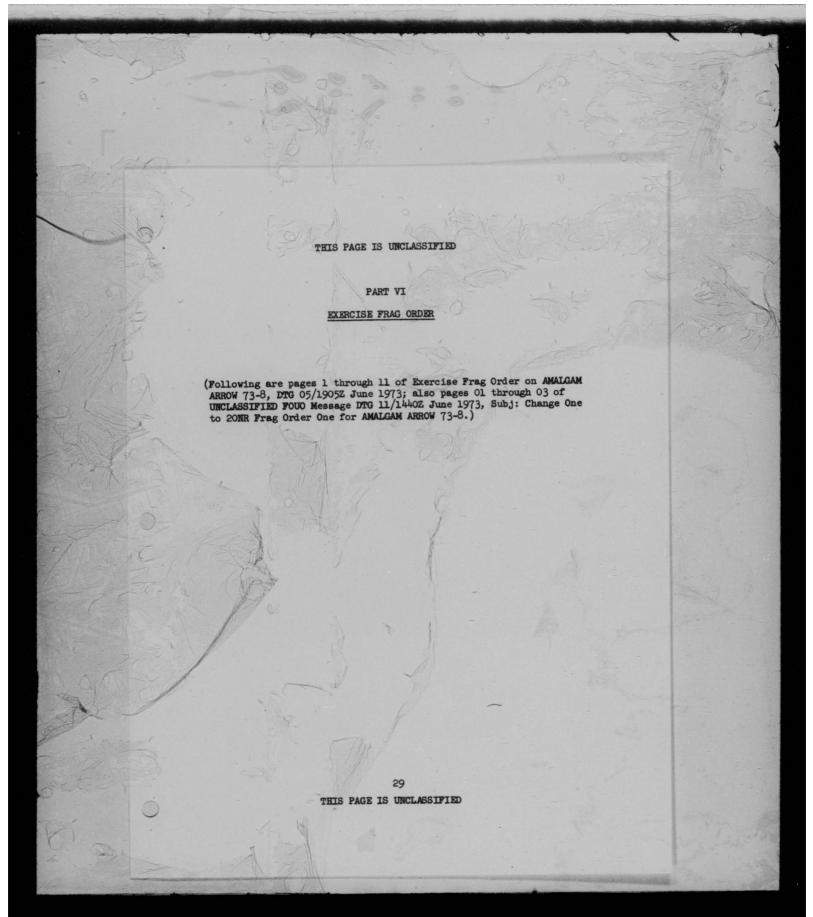
- (1) Tyndall BNCC normally uses Weapons Director 4, who is also assigned the Gulf area for intercept activity, as the BUIC coordinator. This has posed no problem in past exercises, primarily because there has been very little intercept activity in the Gulf. During this exercise, due to the high number of targets in the Gulf, WD-4 had no time to act as a BUIC coordinator.
- (2) Suggest that TBNCC assign a weapons qualified individual to act as the BUIC coordinator. He could be positioned at a table between consoles #1 and #11 with the logs and the necessary communications equipment. This position, to the immediate right of the Senior Director/Technician, would be an expeditious location to coordinate between the TBNCC SD and the RCC.
- f. Problem: "Faker Monitors at the southern portion of Sector I experienced difficulties with radio equipment. Radios at Site Z113 did not function throughout the exercise, and the radios at Z115 were erratic. Part of the problem at Z115 may be attributed to the few lines available to this site, and its increased usage due to the problems with Z113."

DOK OPR Action: Radios at Sites Z113 and Z115 were checked on 11 June 1973 (PACE 05B). PACE 05A was cancelled 18 June 1973 due to air abort. Problem Action Report does not contain sufficient information for this office or maintenance to determine what facilities caused this problem. ESRs were not opened against either site. Request RCC personnel in the future comply with RCC 01 55-1 and MCC 66-44.

g. Problem: "Two target aircraft (RAGE 201, 202) were not cleared to fly their ALTRVs until they had been diverted 80-100 NM off their proposed route. There seemed to be some confusion at both Washington and New York Centers as to what an ALTRV is. A potential flying safety problem arose later with these same aircraft when the sector controller at New York Center had another aircraft at the same altitude at the target area. Despite the delay of these target aircraft in Washington Center, their arrival at the target area (Kenton, Delaware) was within the prescribed time limits, and additionally, was the same time as the expected arrival of later target aircraft at the same altitude and position. In general, ARTCC sector controllers seemed to be only vaguely aware of what takes place in an exercise."

DOTST OPR Action: This item and similar items will be discussed at 20NR joint workshop conference scheduled for September.

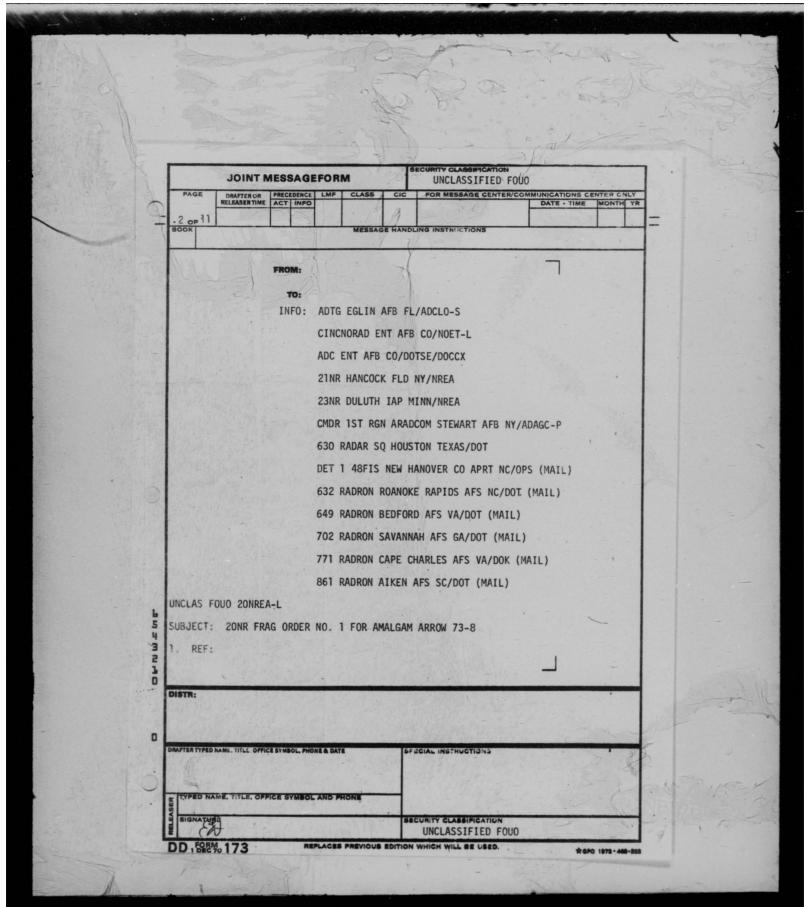




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1 -2	10. 6 TO CINCNORAD OPORD 3720 (NOTAL).		
	B. 20NR OPORD 370N-71 (LADEX).		
	SITUATION: HQ NORAD WILL CONDUCT A	LIVE AIR DEF EXERCISE AMALGAM	
P	RROW 73-8, INVOLVING 20TH AND 21ST NOR	AD RGNS, DURING THE LIABILITY	
1	ERIOD 201800Z TO 221800Z JUN 73. ONE N EVENT OF INCLEMENT WEATHER.	24-HR DELAY MAY BE REQUIRED	
	NORAD OBJECTIVES:		
	A. EXERCISE NORAD AIR DEF COMPONENT	IS WITHIN THE SOTH AND OLG	
N	ORAD RGNS.	ATTITUTE 201H AND 21ST	
	B. EXERCISE SAFE PASSAGE OF INTCPS	THRU ADA DEF WITHIN BOTH DONS	
	C. EXERCISE THE CAPABILITY FOR PASS	IVE DETECTION, TRACKING AND	
IN	TERCEPTION OF ECM TGTS.	e (	
6	D. EXERCISE FIS FLUSH PROCEDURES AT	PITTSBURGH IAP, LANGLEY AFB	
5 AN	D JACKSONVILLE IAP IN THE 20NR. NO FL	USH WILL BE CONDUCTED WITHIN	
3 21	NR.		
1	E. EXERCISE GENERAL RECALL OF 20 ANI	21NR PERSONNEL.	The state of the s
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	FROM:	
	F. A DCE WILL BE CONDUCTED IN THE NY/PHIL ADA DEF AREA.	
	A 20 NORAD RGN OBJECTIVES:	
	A. EXERCISE USE OF AEW&C ACFT FOR SURVEILLANCE AND EARLY	
	WARNING.	
	B. TO EXERCISE IN LEVELS IIA, IIB AND LEVEL IV.	
	C. TO ANNOTATE AND EVALUATE INTERCEPTOR AND ADA KILL PATTERNS.	
	5. PARTICIPANTS:	
	A. 20 AND 21 NR AND SUBORDINATE UNITS (SOUTHERN AIR DEFENSE	
	COMPLEX WILL PARTICIPATE BY RECEIVING, ACKNOWLEDGING AND AUTHENTI-	
	CATING VOICE ALERT FORMATS AND RESPOND TO RECALL).  B. 22 AND 23NR WILL PROVIDE THREAT WARNING TELL AND/OR OTHER	
	SERVICES AS REQUIRED BY 20 AND 21NR.  C. NCOC/ALCOP WILL PASS VOICE ALERT FORMATS AS REQUESTED	
	OV NOTT I	
	6. THE PLANNED STRIKE FORCE (FAKERS) WILL CONSIST OF USAF, USMC,	
	4 UCA TAC AND CF ADC ACFT.	
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	FROM:	PAT T
	A. RECALL WORD IS AMALGAM LEADER.	
	B. 22 AND 23NR WILL BE REQUIRED TO PROVIDE LIMITED PTC FUNC-	
	FIONS AS NECESSARY. 20 WILL COORDINATE DIRECTLY WITH 21 AND 23NR	
	TO ESTABLISH FREQUENCIES, HANDOFF POINTS, ETC.	
	C. WX INTCPS ARE NOT AUTHORIZED. FAKER ACFT ENCOUNTERING	
	IFR CONDITIONS WILL SELECT IFF/SIF MODE 3 CODE 5000 AND SO ADVISE	
	THE FAKER MONITOR.	
	D. TO FACILITATE BATTLE MANAGEMENT, ATTRITION MAY BE	
	PLAYED AT THE DISCRETION OF THE RGN CMDR. "KILLED" FAKERS WILL	
	BE RECLASSIFIED "BRAVO."	
	E. "KILLED" ECM FAKERS WILL BE GIVEN "CROW CRACK" BY THE	
	FAKER MONITOR AND ALL ECM/CHAFF WILL CEASE. IF FURTHER ECM TNG	
	IS DESIRED, THE SD/SWD MAY DIRECT THE FAKER MONITOR TO REINITIATE	
	ECM/CHAFF. EXCEPTIONS TO THE "CROW CRACK" RULE: "CROW CRACK"	
	WILL NOT BE ISSUED TO RAGE 140, 160, 165, 166 AND 435.	
	F. STOP BUZZER PROCEDURES. THE AFFECTED ARTCC WILL CALL	
	THE APPROPRIATE FAKER MONITOR CHIEF FOR ACTION. THE REQUEST WILL	
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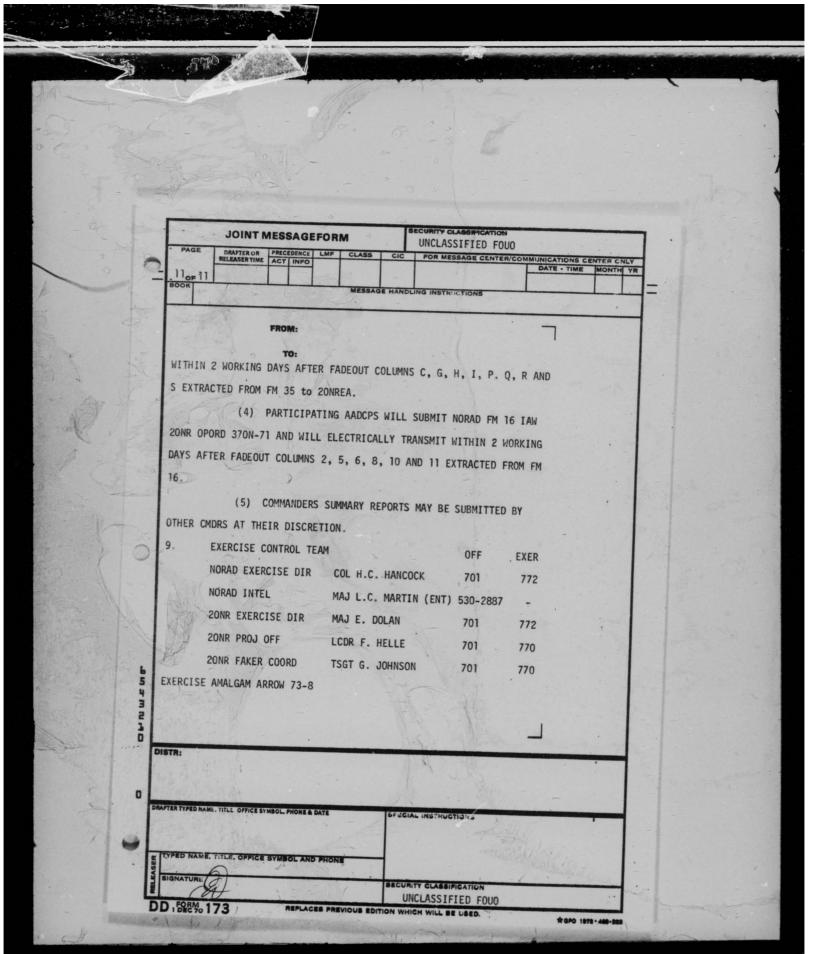
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	FROM:	
	10:	
	J. AUTOMATIC UMPIRING (NORADR 55-25) WILL BE USED. HOWEVER,	
	IF THIS FEATURE IS NOT FUNCTIONING, UMPIRING WILL REVERT TO MANUAL	
	PK TABLES. THE KEY WEST COMPLEX WILL UTILIZE MANUAL UMPIRING	
	THROUGHOUT AND LOCAL TA WILL SELECT ENTRY POINT AND DIRECTION OF	
	TRAVEL ON PK TABLES.	
	K2 ATC (FTR/INTCP) ASSIGNED AIRSPACE WILL BE COORDINATED	
	WITH AFFECTED ARTCCS BY 20NREA AND DISSEMINATED AS NECESSARY.	
	L. ALL NIKE/HERCULES FIRE UNITS WILL OPERATE WITH THE	
	FOLLOWING RESTRICTIONS:	
	(1) ABAR - AT LOW END OF FREQ.	
	(2) HIPAR - CHANNEL FIVE.	
	(3) LOPAR - 50 PERCENT (CENTER OF FREQ BAND).	
	(4) TTR - 25 PERCENT (ON TUNING METER).	
	M. AUTHORIZED FREQ FOR RADARS FROM ROUND HOUSE UNTIL FADE	
¥	5 OUT (ADD 24 HRS SHOULD WX DELAY BE IMPLEMENTED) WILL BE BY SEPA-	
	RATE MSG.	
	N. RICMOS/AJOS WILL NOT MONITOR MODE 3 INPUTS DURING FLYING	
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	FROM:	
	PHASE OF EXERCISE	
	O. AIRBORNE/STRIP ALERT RESCUE ACFT HAVE BEEN REQUESTED.	
	STATION LOCATIONS, TYPE ACFT, ALTITUDES, CALL SIGNS, ETC., WILL BE	
	DISSEMINATED BY 20NREA. KEY WEST TA WILL ESTABLISH RESCUE PROCE-	
	DURES FOR KW COMPLEX.	
	P. BATTLE DAMAGE WILL NOT BE PLAYED, THUS BSSC MANNING IS	
	NOT REQUIRED OTHER THAN REACTION TO RECALL.	
4	Q. A LIVE FLUSH OF ALL OPERATIONAL READY AIRCRAFT WILL BE	
710	CONDUCTED AT PITTSBURGH, LANGLEY AND JACKSONVILLE. A FLUSH IS NOT	
	REQUIRED OF AUGMENTATION INTERCEPTORS.	
	R. ACTIVE PTC FUNCTIONS WILL BE PERFORMED BY 20NRCC, TYNDALL	
	BNCC, KW MNCC AND RICHMOND NGCI.	
	S. THE REAL WORLD 5 MIN ID ALERT ACFT WILL BE REPORTED ON	
5	THE EXERCISE V-3 BUT WILL NOT BE UTILIZED DURING THE EXERCISE.	
4 4	"EX" ACTIVITY CODE AND "ALPHA" ALERT COMMITMENTS WILL BE DIRECTED BY 20DOTW VIA SEPARATE MSG.	
5	T. AEW&C INSTRUCTIONS FOR DET 2, 552 AEW&C WILL BE PASSED	
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SEPARATELY BY 20NOOP 20NR	EA WILL FURNISH AN ON STATION TIME TO	
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8. REPORTS:		
A. NORAD REQUIREMENTS	- ONE CY OF THE FOLLOWING RPTS WILL	
	-L) ENT AFB CO 80912 WITHIN 5 WORKING	1 48
DAYS AFTER EXERCISE FADEOUT.		130
	IREMENTS WILL BE BRIEFED SEPARATELY BY	
20NREA.		
(2) BNCC REQUIREM		
	NAL PROCESSOR: RSS, MIS (10 MIN INTER-	
TEH (NIN-INT)	RVALS), TOT (5 MIN INTERVALS), ID-WBPKI,	
	PROCESSORS: OSC-EXS, AFT, INT.	
(C) NORM.	200 LA3, A11, 111.	
	NTS: PPI SCOPE PHOTOGRAPHY IS REQUIRED	
	RST INDICATION OF ECM FOLLOWING BIG	Se la La
	ALL ACM ACTIVITY UNTIL FADEOUT. CAMERAS	
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	BOOK MESSAGE HANDLING INSTRUCTIONS
	FROM:
	TO:
	WILL BE SET FOR EVERY FIFTH SWEEP. RAW RADAR, NO IFF, RANGE
	MARKERS ON AND 200 MILE RANGE WILL BE SELECTED ON PPI'S. A COVER
	LTR GIVING ON AND OFF TIMES, OPERATING FREQ AND FILM TYPE WILL BE
	MAILED WITH THE FILM AS PRESCRIBED ABOVE. THOSE UNITS WITH THE
	CAPABILITY TO HAVE THEIR FILM DEVELOPED ARE REQUESTED TO DO SO.
	UNITS WILL INSURE THAT FILM CANS ARE MARKED TO INDICATE IF FILM
	IS DEVELOPED OR UNDEVELOPED.
	B. 20 NORAD RGN REQUIREMENTS -  (1) 20RCC WILL SUBMIT NORAD FMS 48, 49, WD LOGS, DE-
	BRIEFED IND LOGS, AND CMDRS SUMMARY RPTS TO 20NREA IAW 20NR OPORD
	370N-71
	(2) FFBNCC, TBNCC AND KWMNCC WILL SUBMIT INFORMATION
	REQUIRED BY ADCR 50-15 TO 20ADIV (DOCT) ASAP BUT NLT 12 HRS AFTER
	FADEOUT. ADDITIONALLY, NORAD FMS 48, 49 AND CMDRS SUMMARY RPTS
	AS REQUIRED BY 20NR OPORD 370N-71 WILL BE SUBMITTED TO 20NR (NREA).
	(3) PARTICIPATING FTR INTCP SQS WILL SUBMIT DEBRIEFED
	NORAD FM 35 IAW 20NR OPORD 370N-71 AND WILL ELECTRICALLY TRANSMIT
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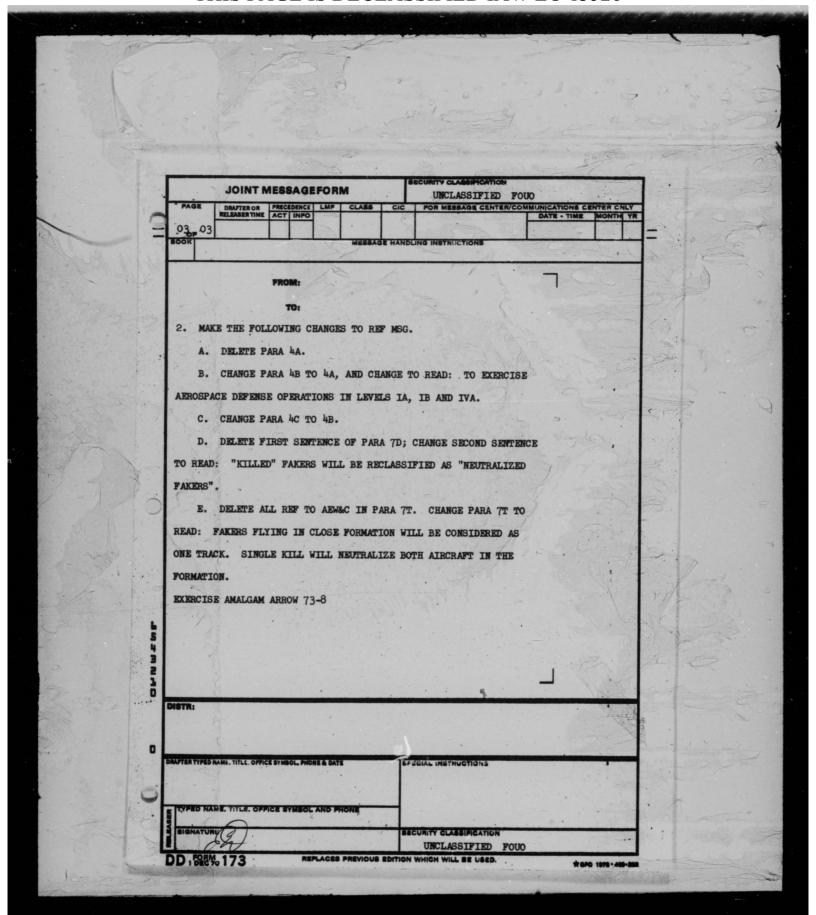
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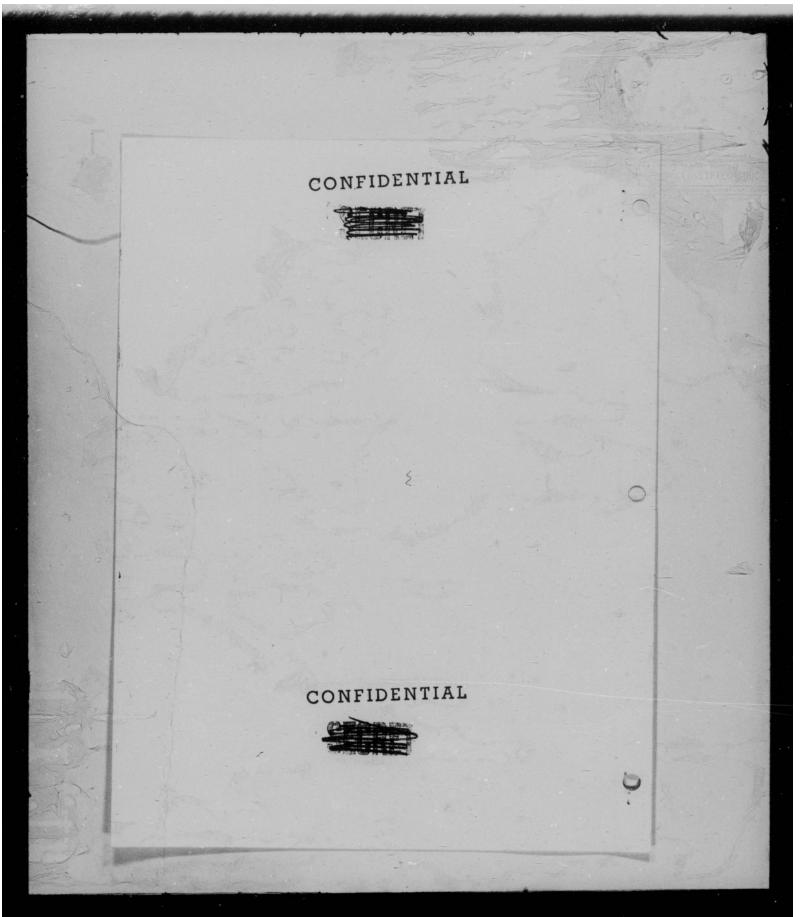
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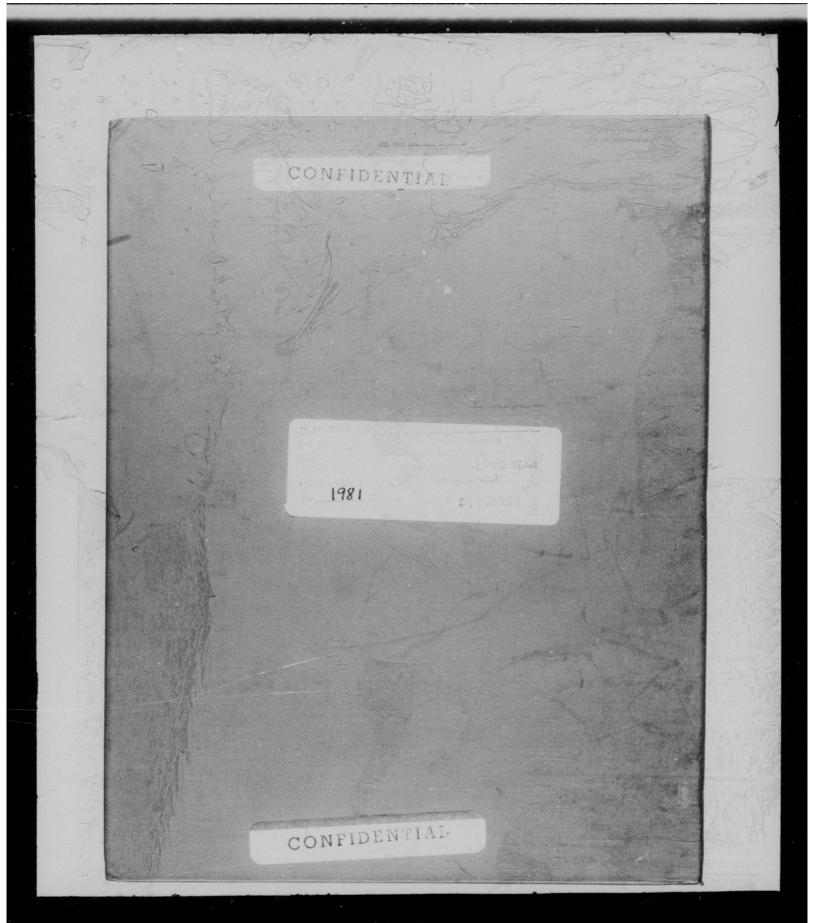


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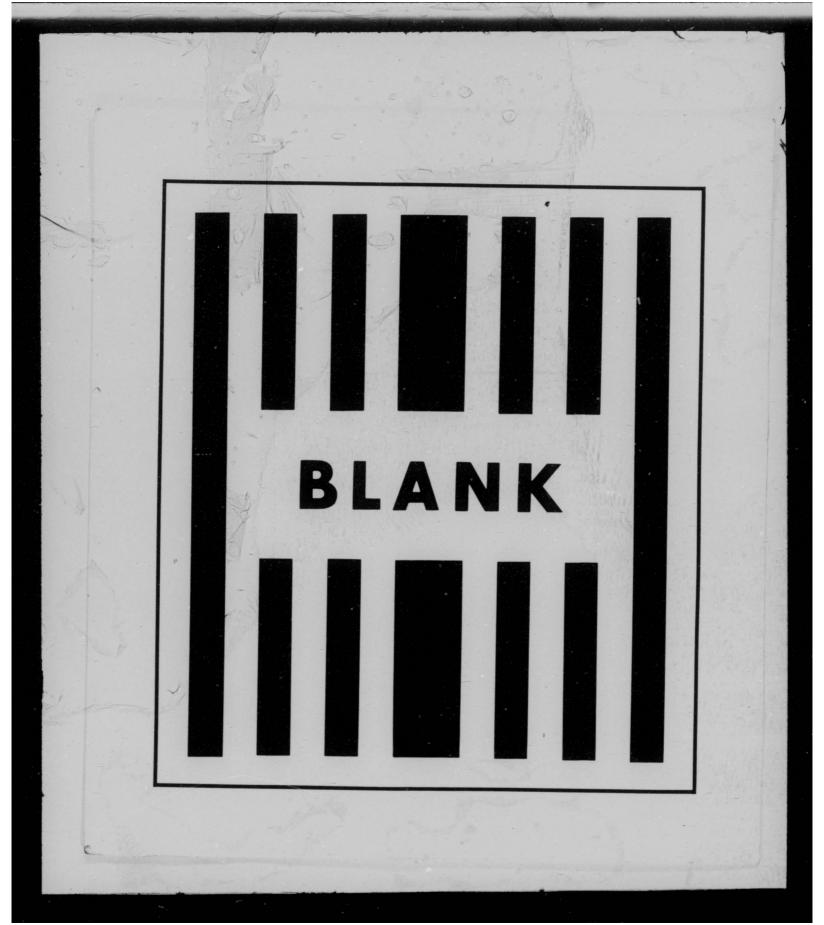
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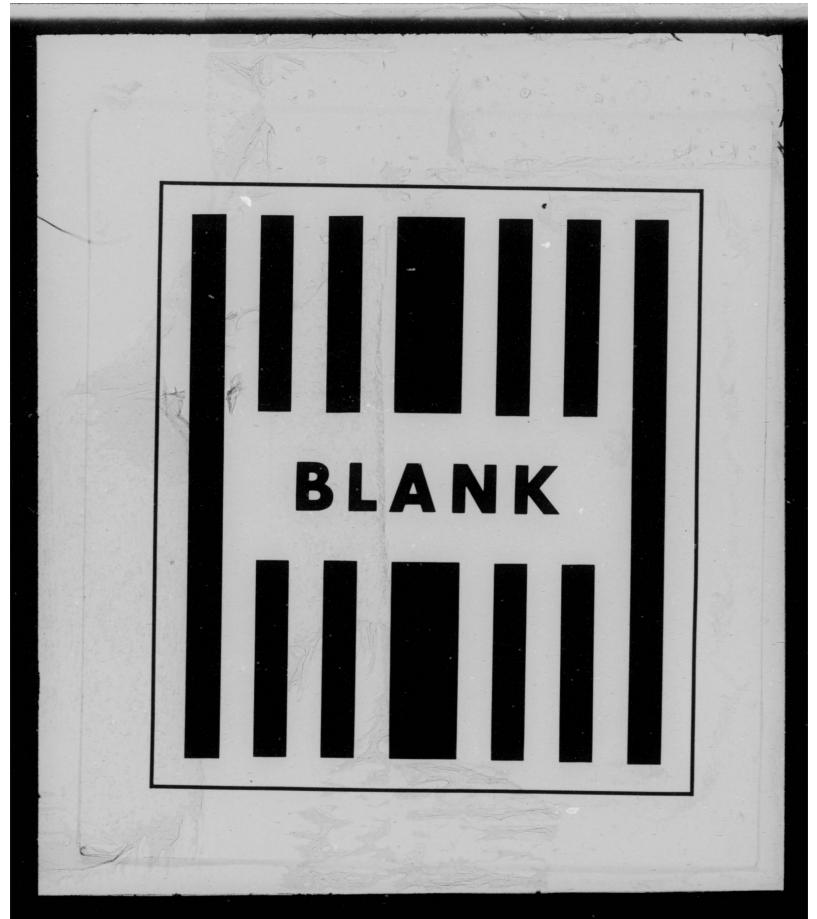
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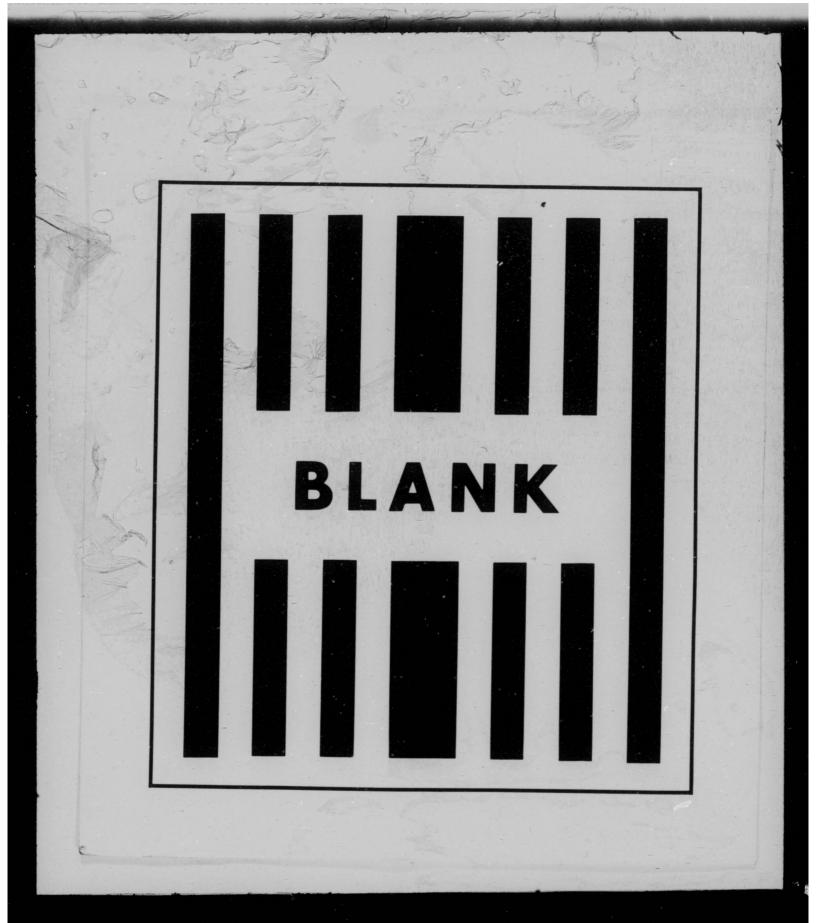
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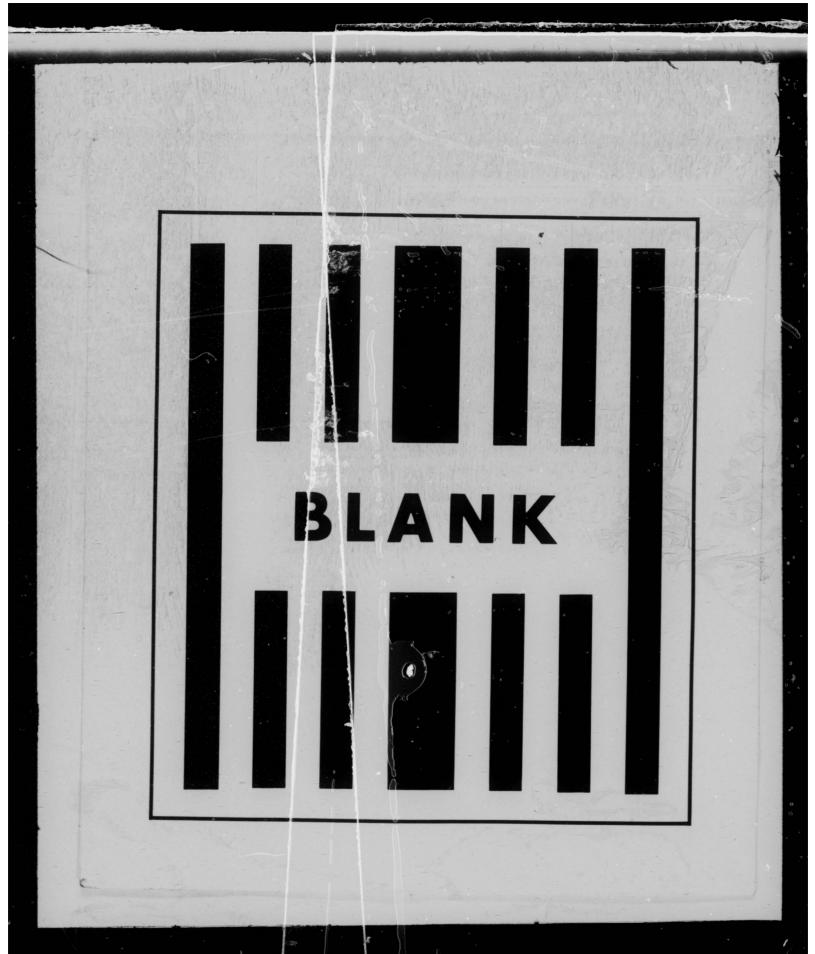
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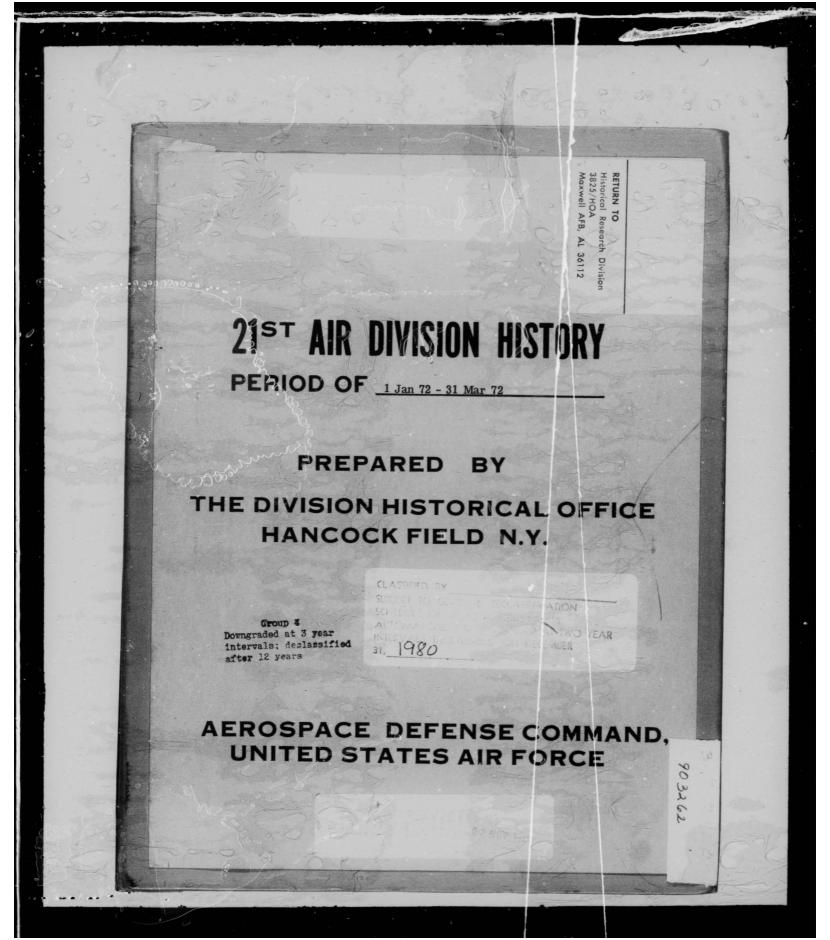
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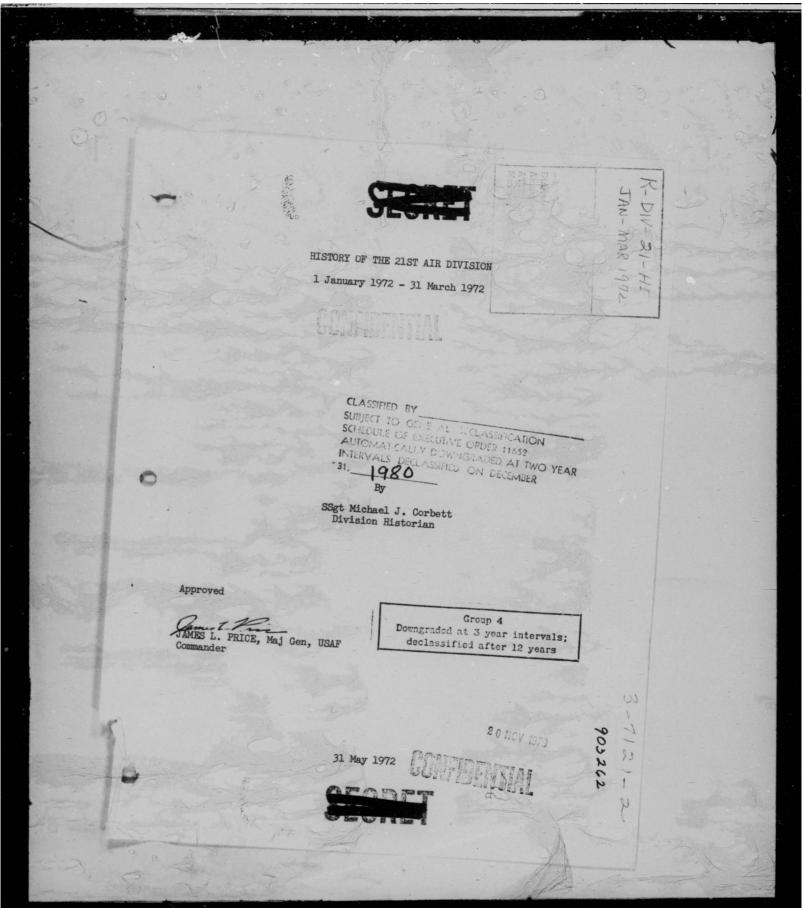
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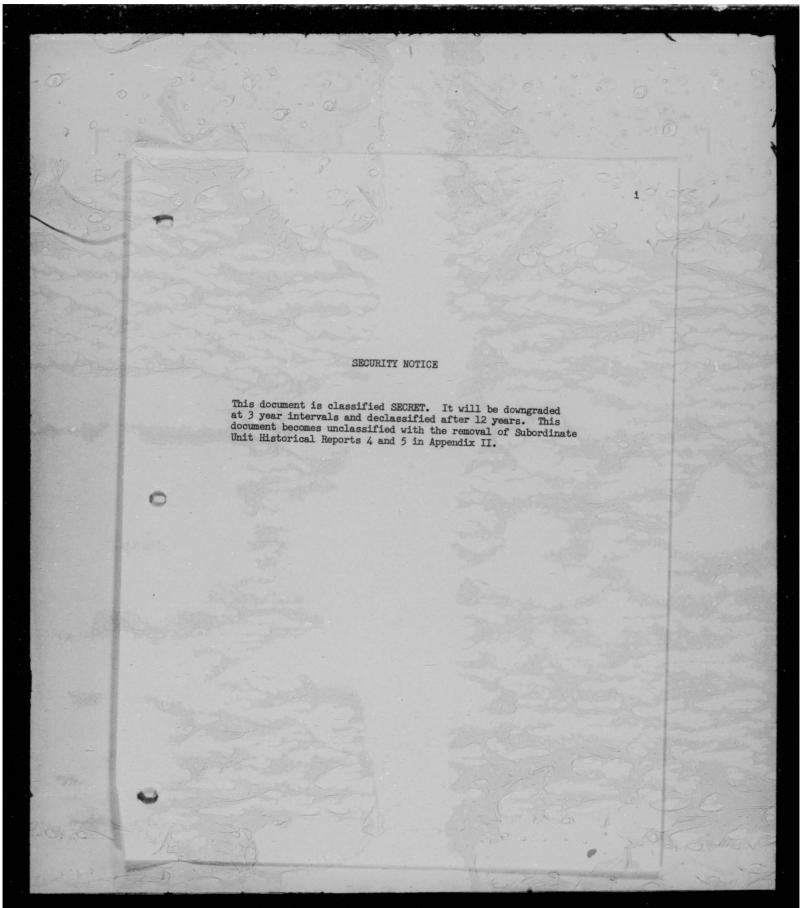
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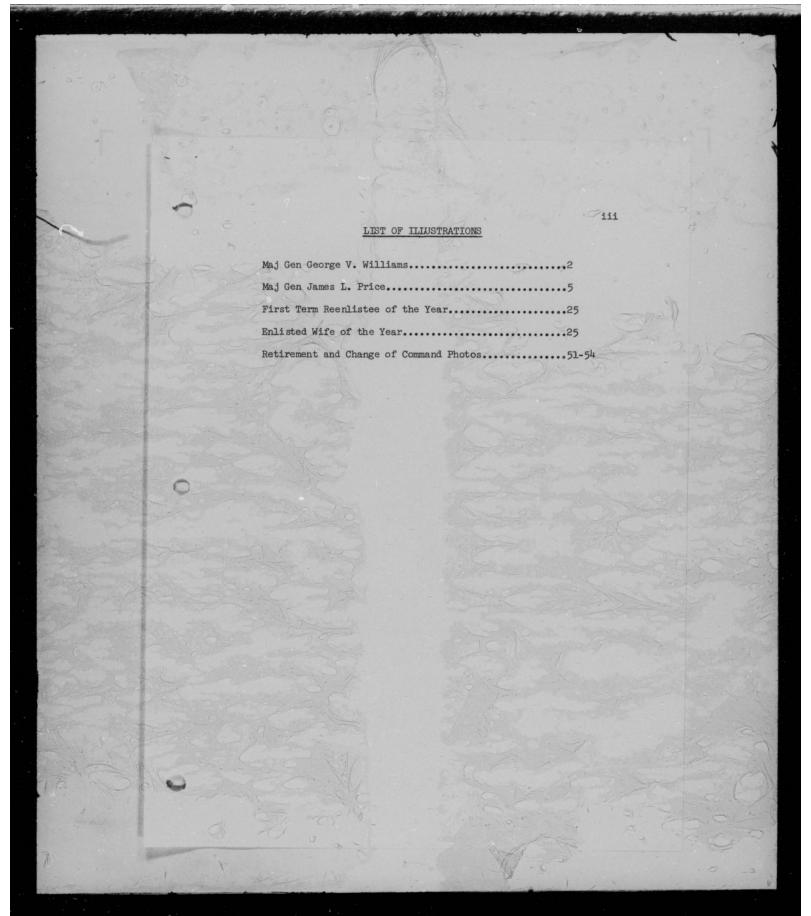


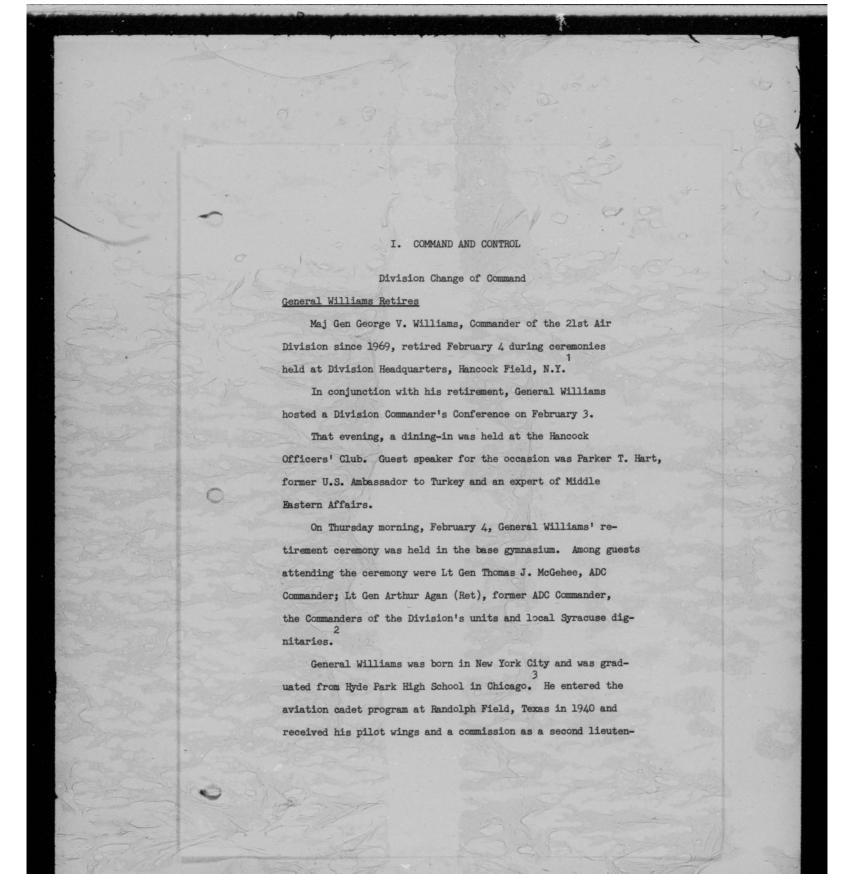
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ant in the Army Air Corps in May 1941. During World War II, General Williams served in the European-African-Middle Eastern and Asiatic-Pacific Theaters of Operations as a fighter pilot, squadron commander and deputy group commander. He flew Spitfires in North Africa, Sicily and Italy on 150 combat missions for a total of 200 combat hours. He was awarded the Silver Star and the Distinguished Flying Cross for his action in the Mediterranean area. Later, he flew 50 missions in P-47 aircraft totaling 200 combat hours in the Western Pacific area. After World War II, General Williams served in a number of assignments in the United States, including Commander of two fighter squadrons. From 1951 to 1953 he was Director of Training and Operations and later Deputy Commander of the 12th Strategic Fighter Wing at Bergstrom Air Force Base, Texas. In 1953 he assumed command of the 58th Fighter Bomber Group at Osan Air Base, Korea and the following year assumed command of the 51st Fighter Interceptor Group on Okinawa. General Williams returned to the United States in 1956 to become Deputy for Operations at the 37th Air Division at Truax Field, Wisconsin. In 1959 he became Director of Tactics, Training and Evaluation, Eastern Air Defense Force, Stewart Air Force Base, N.Y.

He was assigned to Ent Air Force Base, Colorado in 1961 as Director of Operations, Headquarters ADC and in 1963 became Deputy Chief of Staff for Operations. He assumed command of the Detroit Air Defense Sector in 1964.

General Williams became Vice Commander of the Northern

North American Air Defense Command (NORAD) Region in 1966

and assumed command of the United States Logistics Group (TUSLOG)

in Ankara, Turkey in 1967. He returned to Headquarters ADC

as Deputy Chief of Staff, Plans, in 1969, assuming command

of the 21st later that year.

His military decorations include the Silver Star with one oak leaf cluster, Distinguished Service Medal, Legion of Merit with three oak leaf clusters, Distinguished Flying Cross, Air Medal with 17 oak leaf clusters, and the Air Force Commendation Medal. He is a command pilot with more than 7,500 flying hours.

Married to the former Kitty Touchberry of Florence, S.C., the general plans to make his home on Hilton Head Island, S.C. General Price Assumes Command

As a howling wind whipped snow over the vast expanses of Hancock Field, the sounds of "Ruffles and Flourishes" echoed from the NORAD Band contingent. Lt Gen Thomas K. McGehee and Maj Gens Arthur G. Salisbury, George V. Williams and James L. Price entered the base gymnasium.



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The occasion: The change of command of the 21st NORAD Region/Air Division from General Williams to General Price and the retirement of General Williams after 32 years of service. General McGehee, the ADC Commander, presided over the ceremony as General Salisbury, the ADC Chief of Staff, looked on.

Upon his retirement, General Williams was presented the Distinguished Service Medal for his outstanding achievements as Division Commander. Especially noted in the citation for the award was the general's direct involvement in people programs.

These projects ranged from dormitory improvements to middle management programs for junior NCOs to guest tour programs for first term airmen.

Maj Gen James L. Price, new Commander of the Division,
began his military career in 1940 with the Army Air Force.

Since then, the general has had tours in Germany, Taiwan, Guam
and Vietnam, as well as several bases in the continental United
States. Commissioned in 1943, the general served in the European
Theater of Operation in 1944-45. Returning to Europe three years
later, he was a Flight Commander during the Berlin Airlift.

In 1951, General Price began his association with air defense while with the 33rd Fighter Interceptor Wing at Otis AFB, Mass. His involvement with ADC continued with breaks for schooling until 1957 when he became Assistant Chief, Plans and Programs for the 13th Air Force in Taiwan.

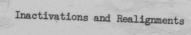
Returning to the United States in 1959, he resumed his ADC association at Hamilton AFB, California. Other ADC posts followed until his Vietnam tour in 1966 as Commander of the 505th Tactical Control Group.

General Price again was assigned to ADC upon his return from Vietnam. His next three assignments took him to Paine Field, Washington, Tyndall AFB, Florida and Ent AFB, Colorado. At Headquarters ADC, the general held the position of Deputy Chief of Staff, Operations, since July 1971.

His decorations include the Silver Star, Legion of Merit with two oak leaf clusters, Distinguished Flying Cross, Air Medal with four oak leaf clusters and the Purple Heart.

General Price received his bachelor of science degree from the University of Maryland with a masters in business administration from Syracuse University and one in international affairs from George Washington University.

The general is married and has three children.



On March 23, 1972, Headquarters ADC announced that six 21st Air Division units will be inactivated, relocated or transferred to the Air National Guard over the next 17 months.

At the end of quarter, no actions were completed. Target dates vary from the second week of May as the earliest until the end of FY 73 as the latest.

The units to be inactivated are the 83rd FIS at Loring AFB, Maine and its dispersed operating base (DOB) at Bangor IAP, Maine, the 26th Air Defense Missile Squadron (ADMS) at Otis AFB, Mass., the 46th ADMS at McGuire AFB, N.J., and the 4784th Air Base Group at Otis.

Relocating as part of the defense forces shift will be Detachment 1, 49th FIS, which will move its DOB function to Loring AFB from Otis and the 4713th Defense Systems Evaluation Squadron (DSES) from Otis to Westover AFB, Mass.

Additionally, with the inactivation of the 4784th Air Base Group, Otis will be turned over to the Massachusetts Air National Guard.

Loring's 83rd FIS inactivation will involve a loss of 595 military personnel this spring. The squadron's F-106 fighter-interceptors will be transferred to the ANG at Otis. Its DOB at Bangor is also being shut down, involving the loss of 25 personnel.

The 26th ADMS at Otis is scheduled to be put out of service by the beginning of the summer. The BOMARC Squadron employs 200 military members. McGuires's 46th ADMS will also be inactivated this fall, involving a 202 man loss.

The final inactivation is of the 4784th ABGp, Otis' host unit. As they transition from active Air Force to ANG, 1168 military slots will be done away with. The 102nd Fighter Group (ANG) will pick up 167 drill spaces as they change from F-100 to F-106 aircraft.

By the end of spring, Det 1 of the 49th FIS will have moved from Otis to Loring with a switch of 25 men. Among the last to leave Otis will be the men of the 4713th DSES which is slated to shift all of its operations to Westover AFB by the summer of 1973.

These announced realignments and reorganizations of defense forces will require increased reliance on the combat capabilities of the ANG units. Aircraft transferred from the active Air Force to the guard units are considered part of the total force. The ANG already provides day-to-day defense alert capability and supports national strategy in meeting the threat.

The BOMARC squadrons have contributed to the continental United States defense against penetration by long-range bombers.

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However, recent analysis indicates that an acceptable defense against surprise attacks can be accomplished by the fighter interceptor forces.

Ninety-seven civil service job reductions are involved in the ADC reorganization. Career and career-conditional civilian personnel affected by these realignment actions will be afforded the full advantage of the Department of Defense program for stability of civilian employment.

Operations

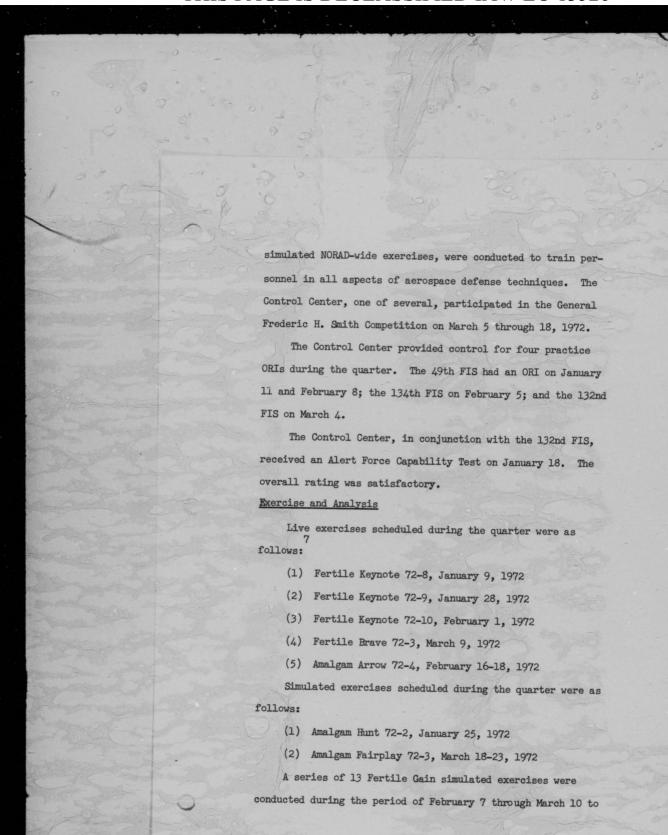
#### Region Control Center

C Control Center manning decreased by 2 personnel during this reporting period.

	Authorized	Assigned
OFFICERS	64	58
ENLISTED	166	143
TOTAL	230	201

Intercept Directors at Division headquarters accomplished
2,948 live intercepts, 4,835 simulated intercepts and 1,850 BOMARC
intercepts for a total of 9,663 intercepts during the quarter.

Seventeen Fertile Gain simulated Region-level exercises were used to develop individual and crew proficiency in aerospace defense techniques. The Control Center also participated in three live exercises, two Fertile Keynotes and one Fertile Brave, locally developed to train personnel in all areas of intercept employment in an ECM environment. Amalgam Hunt and Amalgam Fairplay 72-3,



prepare the Control Center operations crews for the General Frederic H. Smith Trophy competition on March 13, 1972.

General Frederic Smith Competition

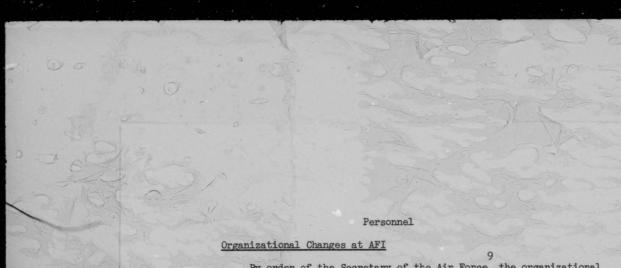
The 21st Air Division came in second this year in the annual General Frederic H. Smith, Jr., trophy competition.

Garnering a total of 8,175 points out of a possible 10,000, the 21st finished second behind the 24th Air Division at Malm-strom AFB, Montana. The 24th had a total of 8,233 points.

Established as an Air Force award in 1963, the General Smith trophy recognizes the command and control element of the aerospace defense team which makes all-weather supersonic airto-air intercepts possible.

The hammered silver trophy cup, presented annually on a rotating basis, is named for General Frederic Smith (USAF Ret) who once served as Vice Commander of ADC and Air Force vice Chief of Staff.

The Smith trophy competition is limited to Air Defense Ground Environment Control units possessing an interceptor control capability. The top unit, selected in competition with units from throughout ADC, is determined by the results of operational evaluations, maintenance management and academic testing.



By order of the Secretary of the Air Force, the organizational 10 structure of Air Forces Iceland was amended on March 9, 1972.

The changes provided the commander, Air Forces Iceland, with an organizational structure capable of discharging the assigned mission with a minimum expenditure of resources. Also, the changes were designed to promote organizational stability, improve communications and streamline the decision-making process. No changes in command or control arrangements were effected by the reorganization. Headquarters Air Forces Iceland is assigned 11 to the 21st Air Division for administrative control purposes.

Transfer of Iceland Defense Force Manpower Authorizations

On 1 January 1972, Headquarters USAF/DFM approved the deletion of the 12 manpower authorizations reflected under functional code 7323, Iceland Defense Force (Navy) of the Headquarters Air Forces Iceland Unit Detail listing. Concurrent with this approval, the following actions were taken:

- (1) Manpower authorizations were transferred to Headquarters Command, USAF, for accountability and reflected on the NORAD Joint Table of Distribution.
- (2) Western European ceilings for commands affected were adjusted.

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- (3) The Personnel Accounting Symbol was changed from HFCBDP (Air Forces Iceland) to FMVWR7 (Det AA 14, 1137 USAF Special Activity Squadron).
- (4) Unit will be manned by USAF and assignments classified as Special Category (SPECAT).
  - (5) Manpower authorizations are as follows:

# AUTH	GRADE	AFSC
1 1 1 1 1 1 1 1 1	Col LTC LTC Maj Maj Capt TSgt SSgt Sgt Sgt	0036 0036 3076 5516 6616 8016 8824 70570 70250 70250
	200	71150

## Transfer of Manpower Authorization

Effective February 1, 1972, OL AG, 4785 AB Squadron, Sondrestrom AB, Greenland, was inactivated and the authorization for the one officer transferred to the 4684th Air Base Group Unit Detail Listing for accounting purposes only. Mission and responsibilities of the incumbent remain unchanged and operational control was retained by the commander, 4785th Air Base Squadron, Stewart Field, N.Y.

This action was taken by ADC on January 10, 1972 to comply with the USAF Chief of Staff's directive to reduce the number of detachments and operating locations throughout the Air Force.

### Change of Command Actions

The following Change of Command Actions occurred during this reporting period:

DATE U

UNIT

INCUMBENT

NEW COMMANDER

21 Mar 72 4624 Spt Sq Hancock Fld LtCol Alfred C.

LtCol Edward L.

### NCO/Airman Advisory Council of the Year

During this reporting period, Headquarters ADC selected a 21st Air Division NCO/Airman Advisory Council as the Council of the Year for 1971. The 907th Radar Squadron NCO/Airman Advisory Council at Bucks Harbor AFS, Maine, was recipient of the award. The 907th competed against all other councils in ADC for the honor.

#### Safety

#### Flight Safety

Aircraft of the 21st Air Division flew a total of 5846.6 hours during the period of January 1 - March 31. There was one major accident, one minor accident and six incidents during 14 this quarter.

The major accident involved an F-101B assigned to the 101st Fighter Group (ANG) at Bangor IAP, Maine. The fighter sustained major structural damage on March 18 during a cross-wind landing. It was declared beyond economical repair after it left the runway on the upwind side and struck a snow bank.

The minor accident occurred on January 13 and involved an F-101B assigned to the 107th Fighter Group (ANG) at Niagara Falls IAP, N.Y. during a cross-wind landing. The aircraft left the runway on the downwind side causing the nose gear to fail.

#### Missile/Nuclear Safety

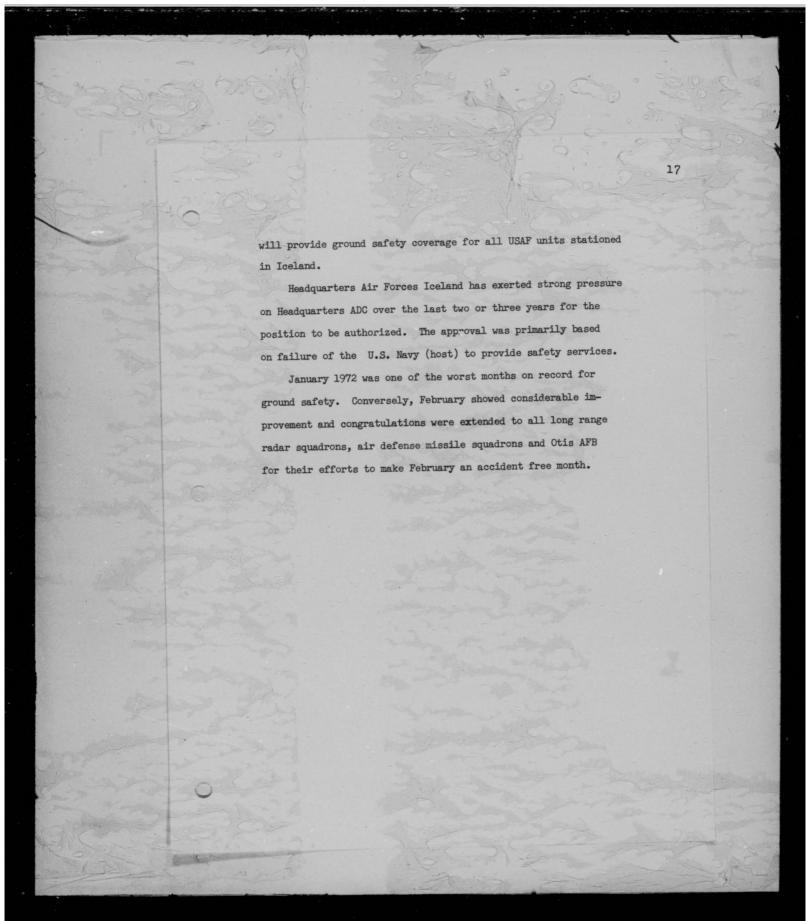
The Division experienced no missile/nuclear accidents or 15 incidents during the quarter. There was one nuclear deficiency reported by the 46th Air Defense Missile Squadron, McGuire AFB, N.J. A deficiency was discovered in the IPA system alarm panel. The alarm panel indicated the shelter was closed and locked when it was not.

### Ground Safety

On February 11, 1972, the Division Safety Office proposed to ADC/SE that the mobile concept of traffic safety education be eliminated and students receive the training at their support 16 base while attending in a TDY status. On March 24 ADC rejected this proposal.

The subject is not yet closed and there have been several telephone conversations with ADC Safety on the subject.

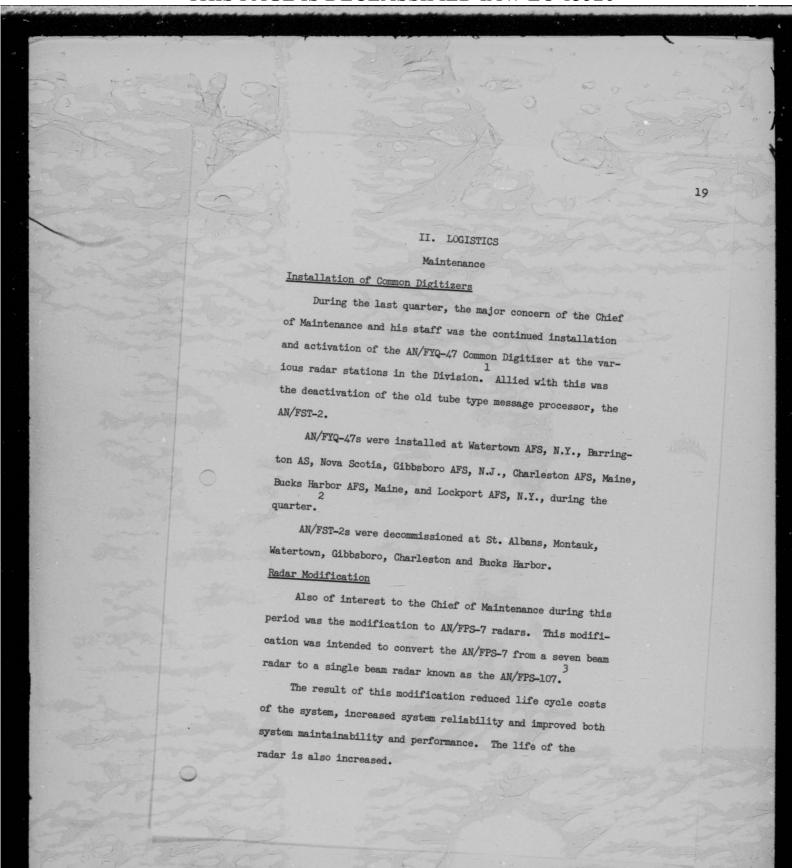
During March a Ground Safety Technician was assigned to Headquarters Air Forces Iceland. The position had been authorized by ADC Manpower and Organization in 1971. The incumbent



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### I. NOTES

- 1. For a complete set of Retirement/Change of Command pictures see Appendix I to this report.
- 2. Information supplied by Directorate of Information, Hqs 21st Air Division. In Division Historical Files.
- 3. For a complete biography on General Williams, see Doc. 1, Appendix II to this report.
- 4. For a complete biography on General Price, see Doc. 2, Appendix II to this report.
- 5. Msg (U), Subj: Announcement of ADC Program Actions, 231705Z Mar 72. (Doc 3)
- 6. Information supplied by DCS/Operations, Hqs 21st Air Division. In Division Historical Files.
- 7. Ibid.
- 8. Information supplied by Directorate of Information, Hqs 21st Air Division. In Division Historical files.
- 9. DAF/DPM I-079, 14 April 1971.
- 10. For the new organizational structure chart, see Doc. 4 in Appendix II to this report.
- 11. For manpower authorizations by grade, AFSC, functional code, quantity, etc., see Doc. 5 in Appendix II to this report.
- 12. Information supplied by DCS/Personnel, Hqs 21st Air Division. In Division Historical files.
- 13. For the new organizational structure for numbered Air Divisions, see Doc. 6 in Appendix II to this report.
- 14. Information supplied by Directorate of Safety, Hqs 21st Air Division. In Division Historical Files.
- 15. Ibid.
- 16. <u>Ibid</u>.



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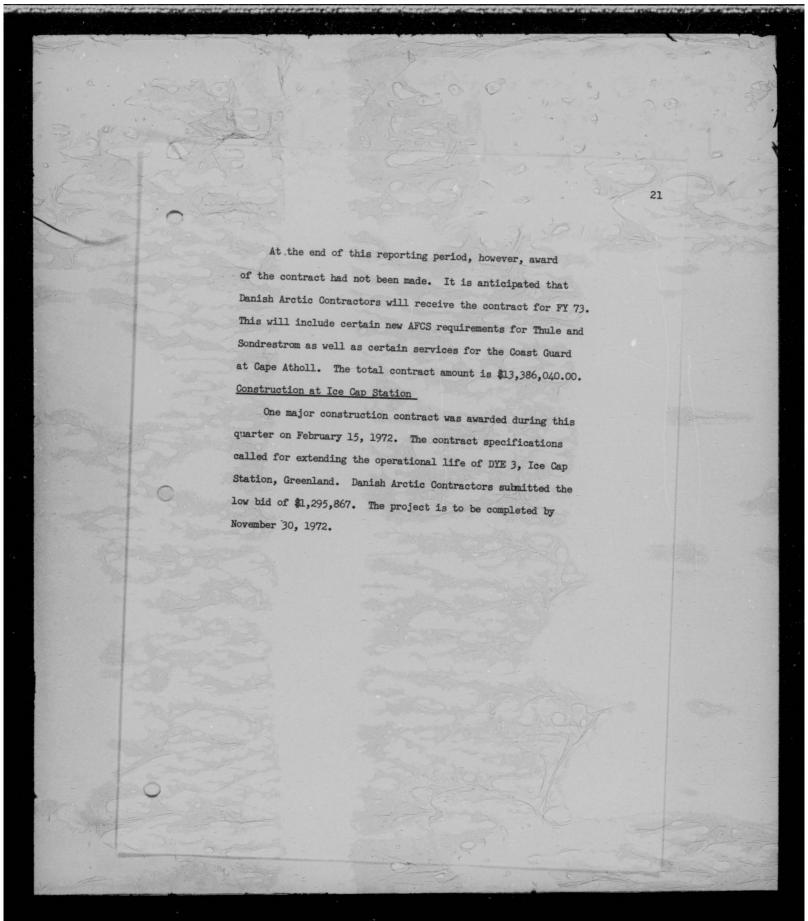
Thus far, three sites within the 21st Air Division have had their radars converted. They are the 764th Radar Squadron, St. Albans AFS, Vt., the 766th Radar Squadron, Caswell AFS, Maine, and the 762nd Air Defense Group, North Truro AFS, Mass.

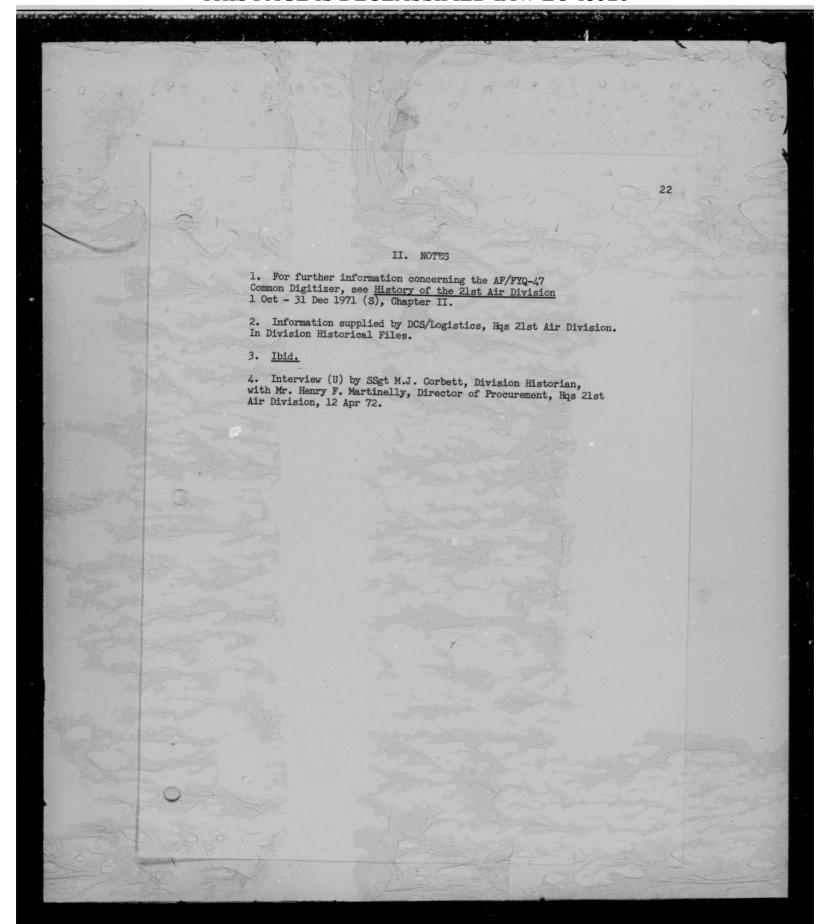
#### Procurement

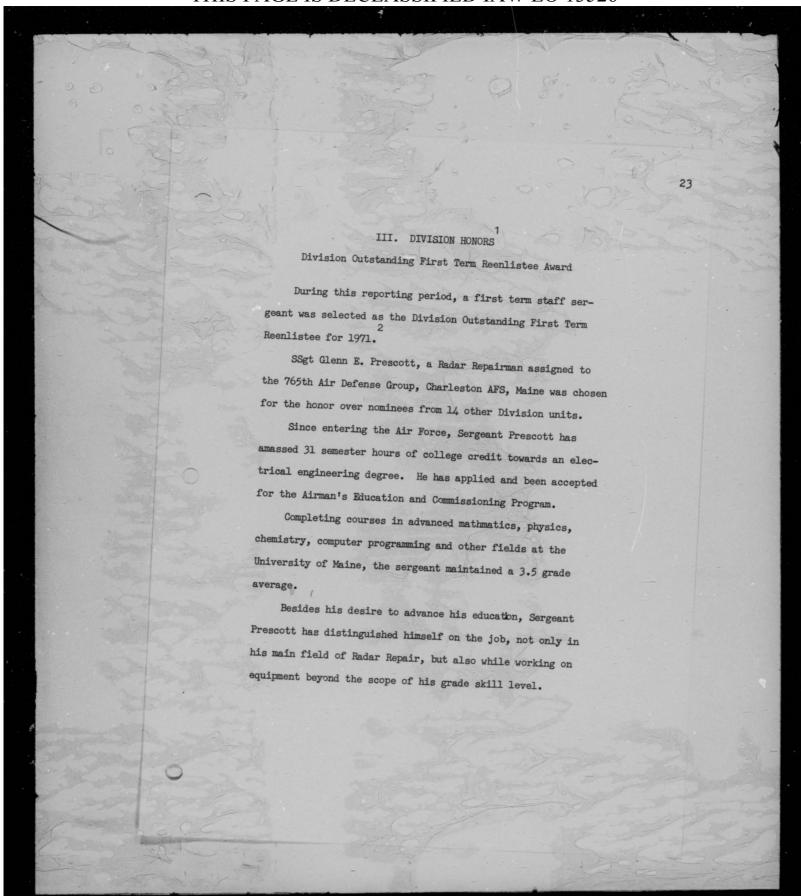
### O&M North Country Contracts

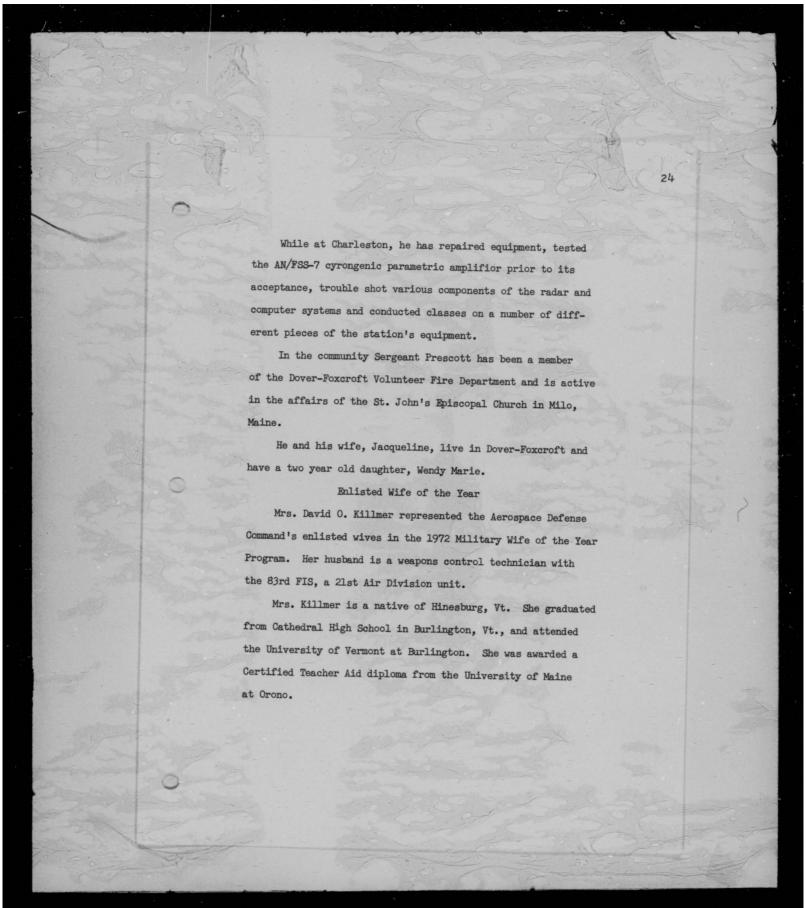
A technical evaluation review board convened at 21st Air Division Headquarters on February 17 through 24, 1972, to evaluate the technical proposal submitted by Danish Arctic Contractors for FY 73 Base O&M Services at Thule and Sondrestrom Air Bases, 4 Greenland. It was the board's conclusion that Danish Arctic Contractors possessed the technical capability to satisfactorily accomplish the ADC, MAC, OL-5 and Coast Guard requirements contained in the request for proposal. This automatically authorized further negotiations.

Mr. Henry F. Martinelly, Division Director of Procurement, participated in the technical and price negotiations on the FY 73 Base O&M.service requirements in Copenhagen, Denmark, during the period of March 14 through 28, 1972. At that time it was determined that Danish Arctic Contractors also possessed the technical capabilities to perform the AFCS Non-sensitive Communication services.



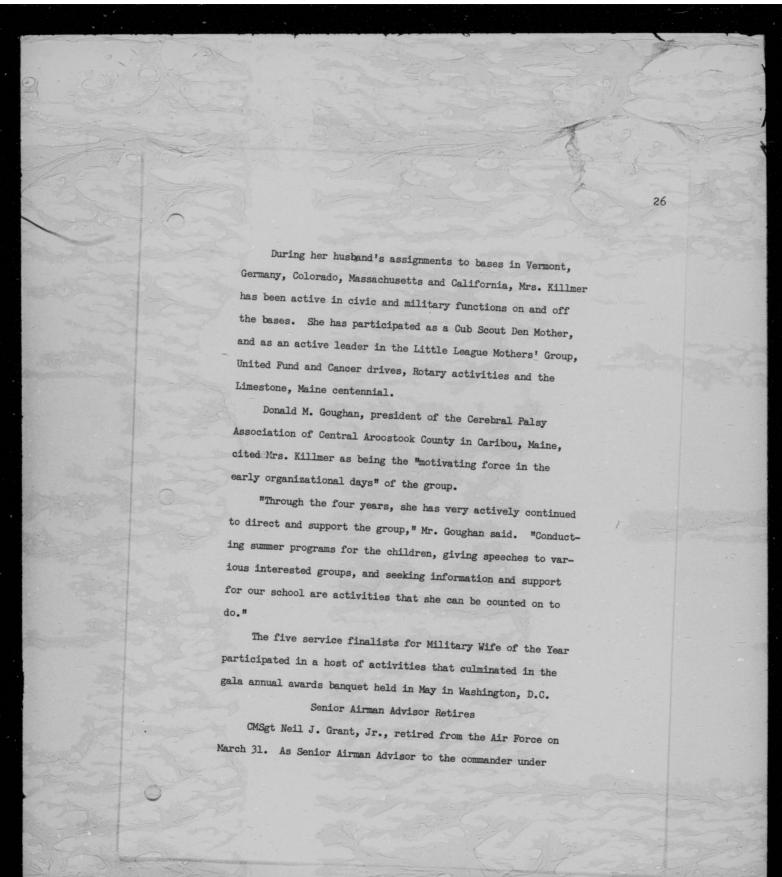








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Maj Gen George V. Williams, the chief held a position of importance during his tenure here.

His job included inspecting division units with regard to discipline, dormitory conditions, dining halls, recreational facilities, NCO Open Messes and personal appearance. Additionally, he heard complaints and recommended solutions to them.

The chief entered the service on March 18, 1942 in Syracuse, N.Y. He saw duty during WW II as the master of a crash boat and as first sergeant of an Army Rescue Boat Company.

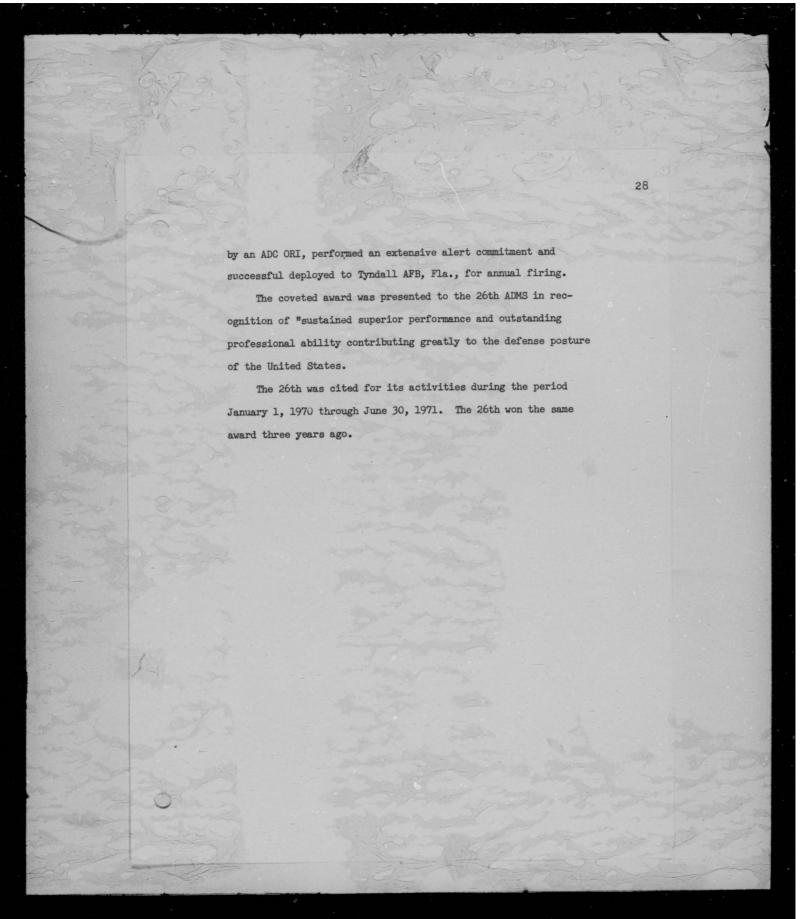
Since then, he has been a club manager, personnel superintendent at Hqs USAFE and Senior Airman Advisor to USFORAZ in the Azores before his assignment to the 21st.

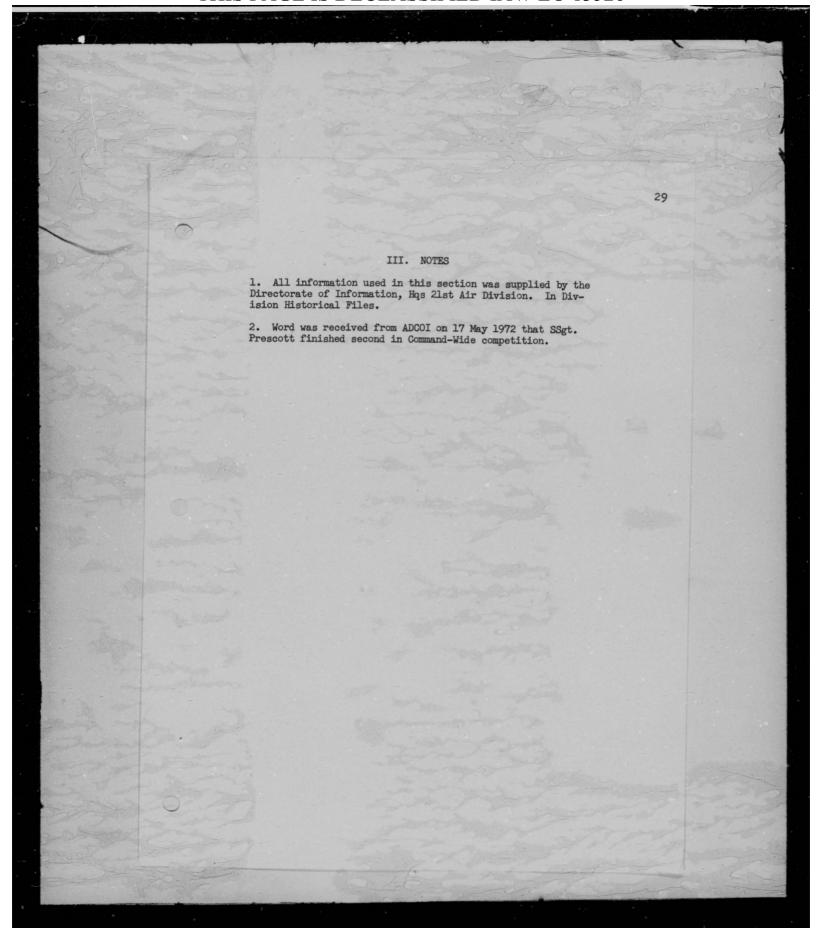
Chief Grant has been awarded the Meritorious Service Medal with one oak leaf cluster and the Air Force Commendation Medal with two oak leaf clusters. He is married to the former Brigitte Boese of Wiesbaden, Germany.

Two Units Named "Outstanding"

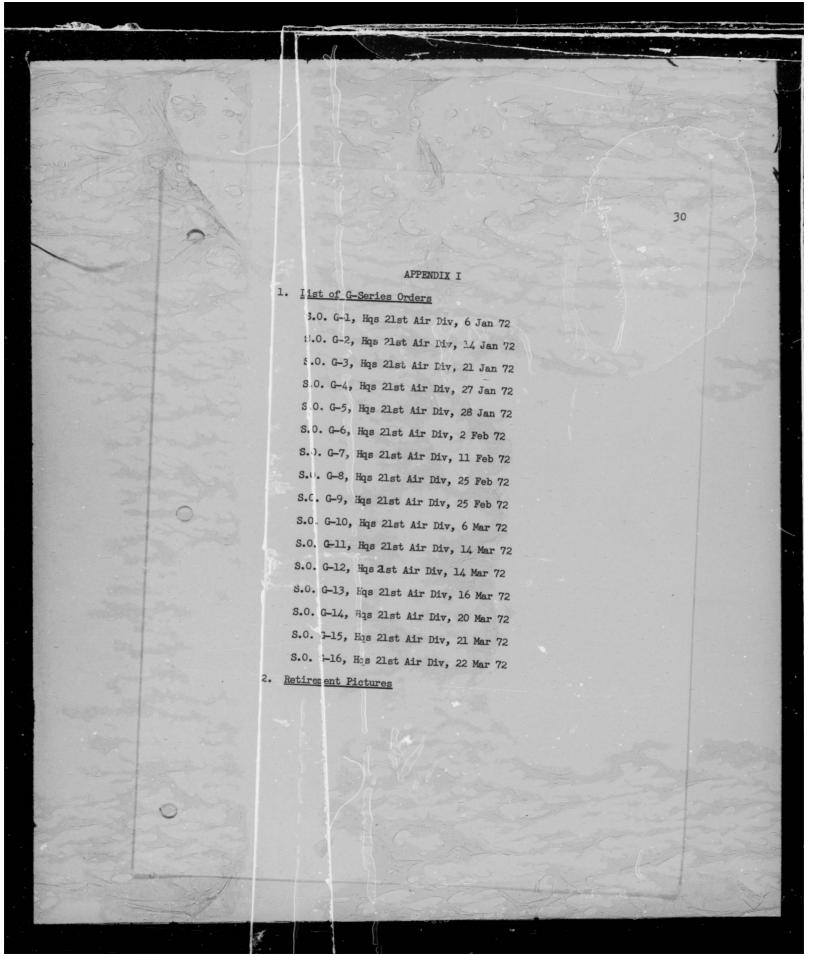
The 27th FIS (Later renamed the 83rd FIS), Loring AFB, Maine, and the 26th Air Defense Missile Squadron, Otis AFB, Mass., were awarded the Air Force Outstanding Unit Award during this quarter.

The 27th was named for the honor for its final 13 months at Loring. During this time, the unit was rated outstanding





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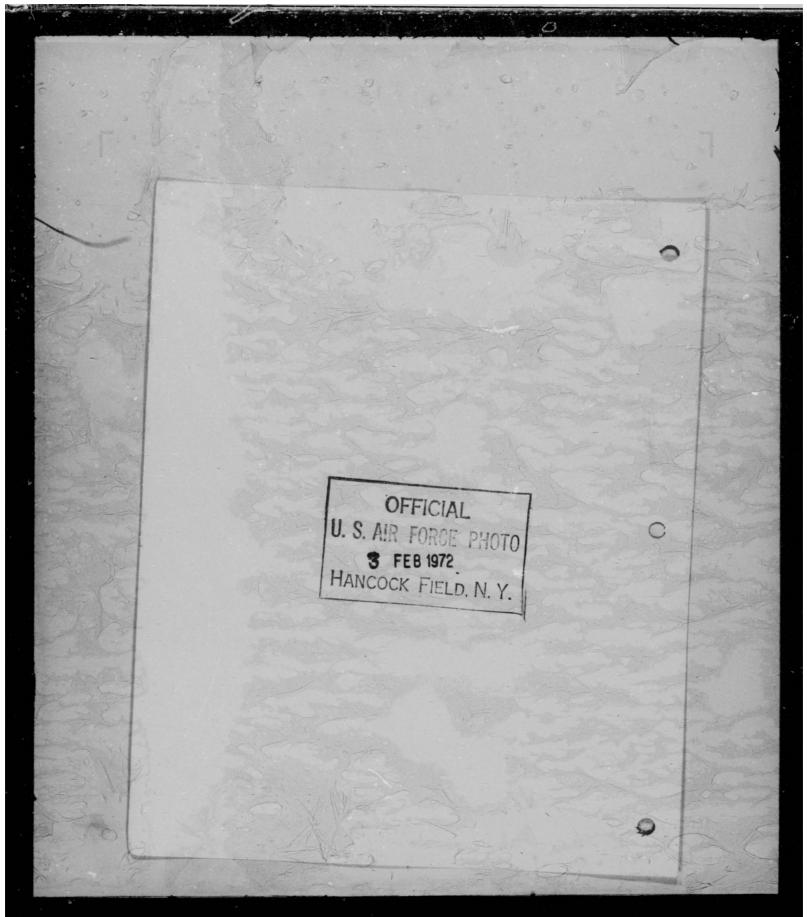


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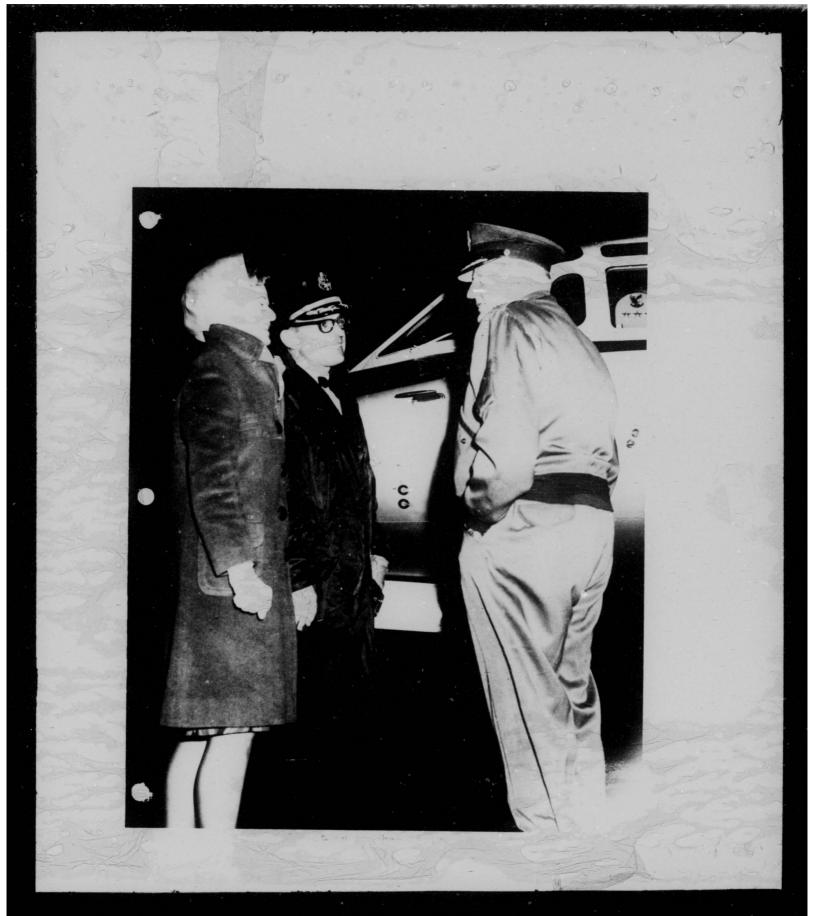


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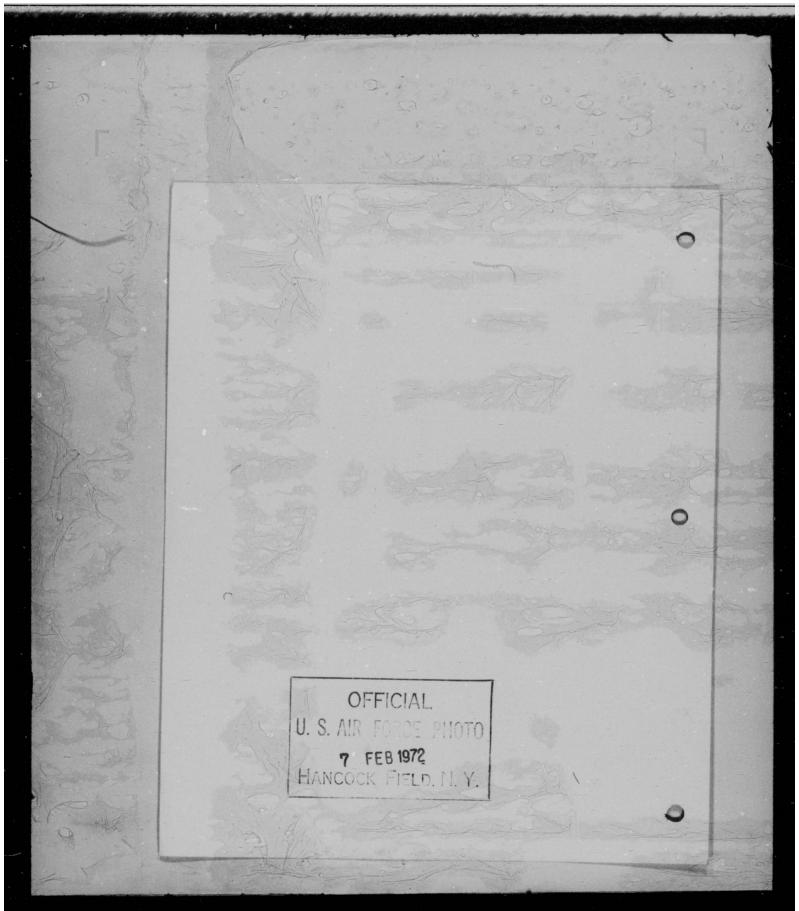
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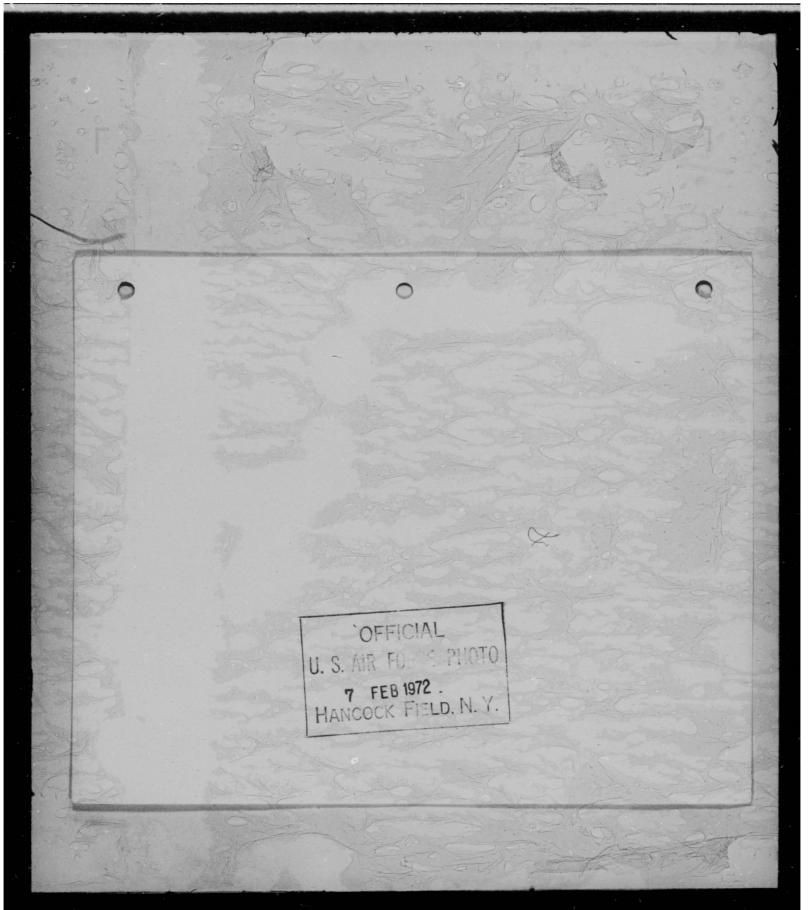
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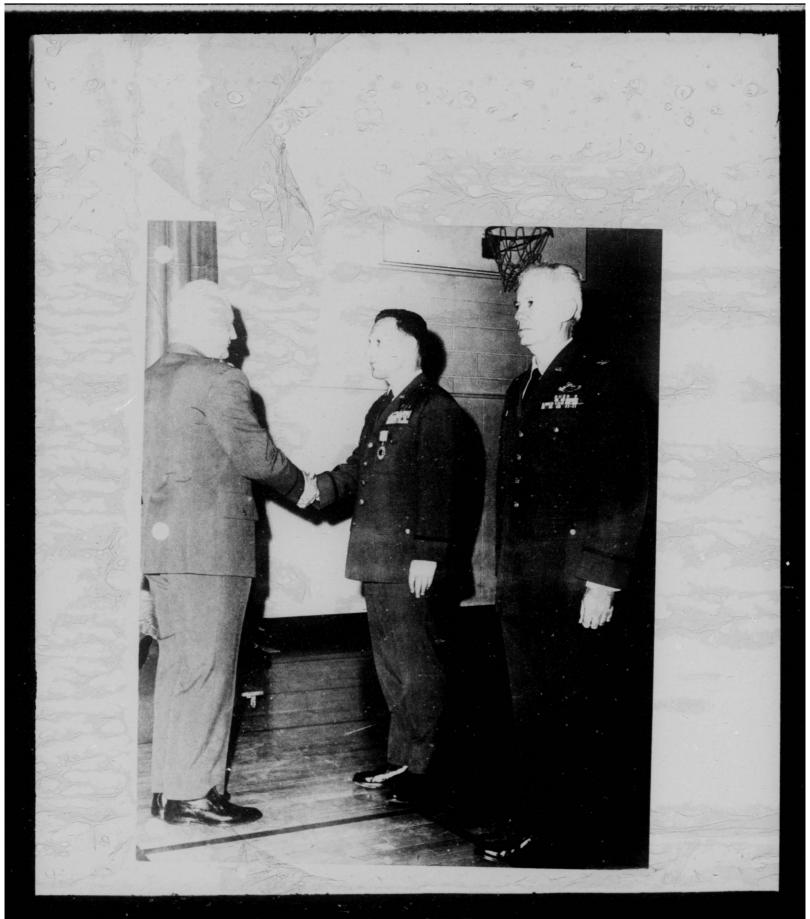
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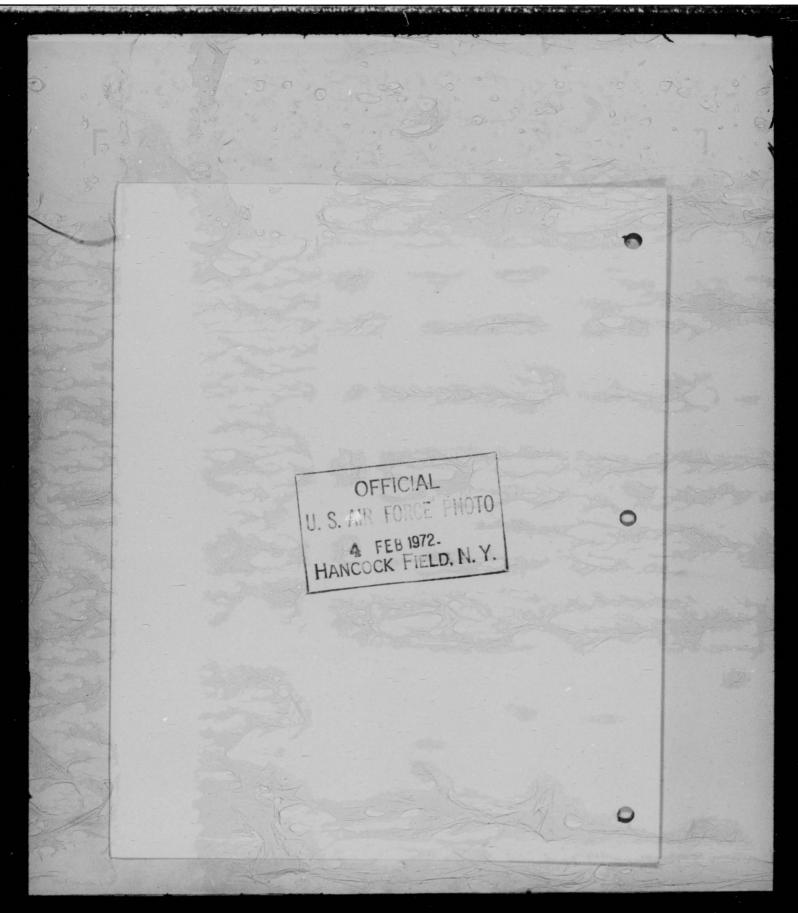


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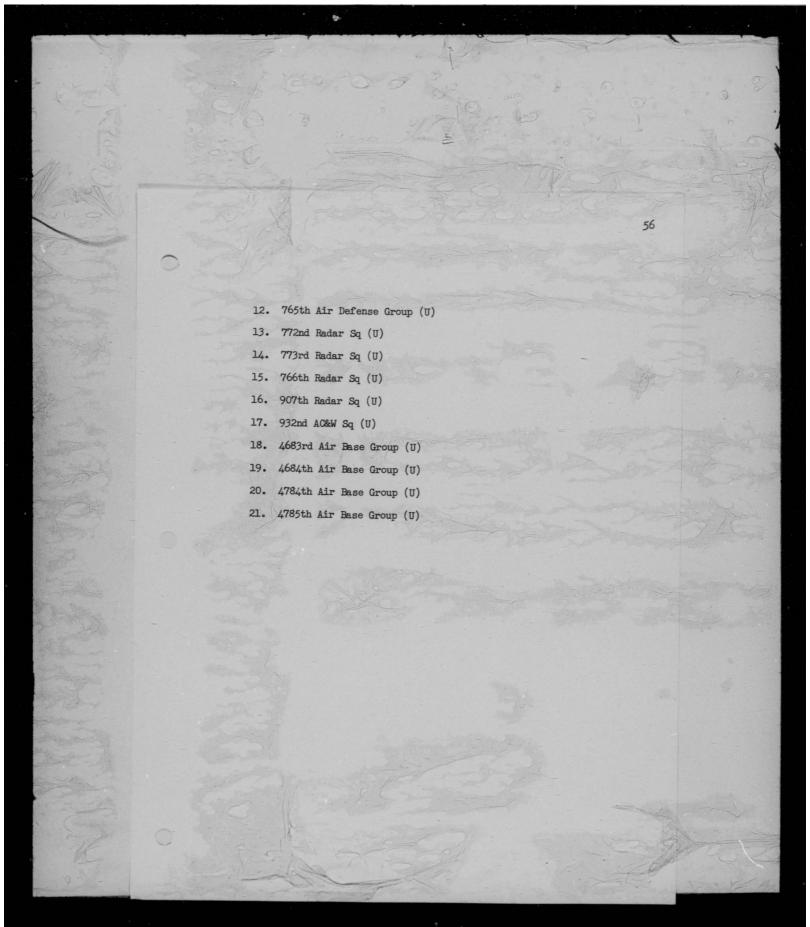
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# 55 APPENDIX II List of Supporting Documents 1. Biography, (U), Maj Gen George V. Williams (current as of 1 February 1971) 2. Biography, (U), Maj Gen James L. Price (current as of 15 November 1971) 3. Msg (U), Subj: Announcement of ADC Program Actions, 231705Z Mar 72 4. Chart (U), Standard Organizational Structure, Hq Air Forces Iceland 5. Chart (U), Manpower Authorizations, Hq Air Forces Iceland 6. Chart (U), Standard Organization Structure, ADC Air Div-Subordinate Unit Histories 1. Hqs AFI, (U) 2. 26th Air Defense Missile Sq (U) 3. 46th Air Defense Missile Sq (U) 4. 49th FIS (S) 5. 57th FIS (C) 6. 83rd FIS (U) 7. 648th Radar Sq (U) 8. 655th Radar Sq (U) 9. 667 AC&W Sq (U) 10. 762nd Air Defense Group (U) 11. 764th Radar Sq (U)



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# Biography

# UNITED STATES AIR FORCE

## MAJOR GENERAL GEORGE V. WILLIAMS

Major General George Vincent Williams is Commander of the 21st North American Air Defense Command Region, Hancock Field, Syracuse, N.Y.; with additional duties as Commander, 21st Air Division.

General Williams was born in New York City on June 6, 1919, and was graduated from Hyde Park High School in Chicago, Ill. He entered the aviation cadet program at Randolph Field, Tex., in 1940 and received his pilot wings and a commission as a second lieutenant in the Army Air Corps in May 1941.

During World War II, General Williams served in the European-African-Middle Eastern and Asiatic-Pacific Theaters of Operations as a fighter pilot, squadron commander and finally, deputy group commander. He flew Spitfires in North Africa, Sicily and Italy on 150 missions for a total of 200 combat hours. He was awarded the Silver Star and the Distinguished Flying Cross for action in the Mediterranean area. Later, he flew 50 missions in P-47 aircraft totaling 200 combat hours in the Western Pacific area.

After World War II, General Williams served in a number of assignments in the United States, including Commander of two fighter squadrons. From 1951 to 1953 he was Director of Training and Operations and later Deputy Commander of the 12th Strategic Fighter Wing at Bergstrom Air Force Base, Texas. In 1953 he assumed command of the 58th Fighter Bomber Group at Osan Air Base, Korea, and the following year assumed command of the 51st Fighter Interceptor Group on Okinawa.

General Williams returned to the United States in 1956 to become Deputy for Operations on the 37th Air Division at Truax Field, Wis. In January 1959 he became Director of Tactics, Training and Evaluation, Eastern Air Defense Force, Stewart Air Force Base, N.Y., and in August became Assistant Deputy for Operations. He next was assigned to Dobbins Air Force Base, Ga., as Deputy for Operations of the 32nd Air Division and in May 1961 became Vice Commander of the Division.

OVER

(Current as of February 1, 1971)

(Local reproduction authorized)

He was assigned to Ent Air Force Base, Colo., in August 1961 as Director of Operations, Headquarters Air Defense Command (ADC), and in August 1963 became Assistant Deputy Chief of Staff for Operations. He assumed command of the Detroit Air Defense Sector in July 1964.

General Williams became Vice Commander of the Northern North American Air Defense Command (NORAD) Region in January 1966 and assumed command of The United States Logistics Group (TUSLOG), with headquarters in Ankara, Turkey, in July 1967. He returned to Headquarters Aerospace Defense Command as Deputy Chief of Staff, Plans, in August 1969. He assumed command of the 21st North American Air Defense Command Region with headquarters at Hancock Field, Syracuse, N.Y., in November 1969. He has additional duties as Commander, 21st Air Division.

His military decorations include the Silver Star with one oak leaf cluster, Legion of Merit with three oak leaf clusters, Distinguished Flying Cross, Air Medal with 17 oak leaf clusters and Air Force Commendation Medal. He is a command pilot with more than 8,550 hours flying time in conventional and jet aircraft.

General Williams is married to the former Kitty Touchberry of Florence, S.C. They have one son, George. His hometown is Chicago, Illinois.

He was promoted to the temporary grade of major general effective February 1, 1969, with date of rank of October 27, 1964.

- 30 -

(NOTE: General Williams retired at Hancock Field on Feb 4, 1972)



# Biography

## UNITED STATES AIR FORCE

SECRETARY OF THE AIR FORCE OFFICE OF INFORMATION COMMAND SERVICES UNIT BOLLING AFB, D.C. 20332

AV 991-4291 AREA CODE 202/574-4291

MAJOR GENERAL JAMES L. PRICE

Major General James L. Price is Deputy Chief of Staff, Operations, Headquarters Aerospace Defense Command, (ADC), Ent Air Force Base, Colo.

General Price was born on Nov. 23, 1921, in Horners-ville, Mo., and was graduated from high school in Bakersfield, Calif., in 1940. He earned a bachelor of science degree in military science from the University of Maryland in 1952; a master of business administration degree from Syracuse University in 1957; and a master of arts degree in international affairs from George Washington University in 1964.

His military career began with his enlistment in the Army Air Forces in 1940. He was graduated from flying school at Yuma Field, Ariz., and received his pilot wings and commission as second lieutenant in July 1943. From April 1944 to June 1945 he served in the European Theater of Operations as pilot and operations officer with the 721st Bombardment Squadron.

In June 1945 he returned to the United States and went to Hensley Field, Tex., where he served as operations officer and base air inspector. He was assigned to Bolling Field, Washington, D.C., in February 1947, as pilot and later served as base operations officer.

General Price went to Germany in September 1948 and was assigned to the 61st Troop Carrier Group, U.S. Air Forces in Europe, as operations and training officer and was flight commander in the Berlin Airlift. From July 1949 to October 1951 he served with the 86th Fighter Bomber Group as pilot and then group adjutant.

His association with Aerospace Defense Command (ADC) began in October 1951 when he was assigned as assistant operations officer and later wing operations staff officer with the 33d Fighter Interceptor Wing at Otis Air Force Base, Mass. He attended the University of Maryland from January 1952 to August 1952 and then returned to Otis Air Force Base as assistant operations officer, 4707th Defense Wing (ADC).

In May 1953 he went to Brunswick, Maine, as Commander, 654th Aircraft Control and Warning Squadron (ADC). In March 1955 he was assigned as Commander, 47th Fighter Interceptor Squadron (ADC), 15th Fighter Group, at Niagara Falls, N.Y. He attended Syracuse University from September 1956 to November 1957.

OVER

(Current as of November 15, 1971)

(Local reproduction authorized)

General Price next went to Taiwan and served as Assistant Chief, Plans and Programs, Thirteenth Air Force, until July 1958, when he went to Guam as operations staff officer with the 327th Air Division and then as Commander, 41st Fighter Interceptor Squadron.

He returned to the United States in September 1959 and was assigned as Director of Operations and Training, 28th Air Division (ADC) at Hamilton Air Force Base, Calif. He was appointed Commander of the 456th Fighter Interceptor Squadron at Castle Air Force Base, Calif., in July 1960. In August 1963 he entered the National War College, Washington, D.C.

In August 1964 General Price was assigned to Headquarters Air Defense Command, Ent Air Force Base, Colo., as Chief, Weapons Division, Deputy Chief of Staff, Operations. He went to the Republic of Vietnam in May 1966 and served for a year as Commander, 505th Tactical Control Group. His next assignment was as Vice Commander, 57th Fighter Group (ADC), Paine Field, Wash., and in July 1967 he became Commander.

General Price was assigned to the Air Defense Weapons Center, Tyndall Air Force Base. Fla., in January 1968 as Vice Commander. He became Commander in June 1968.

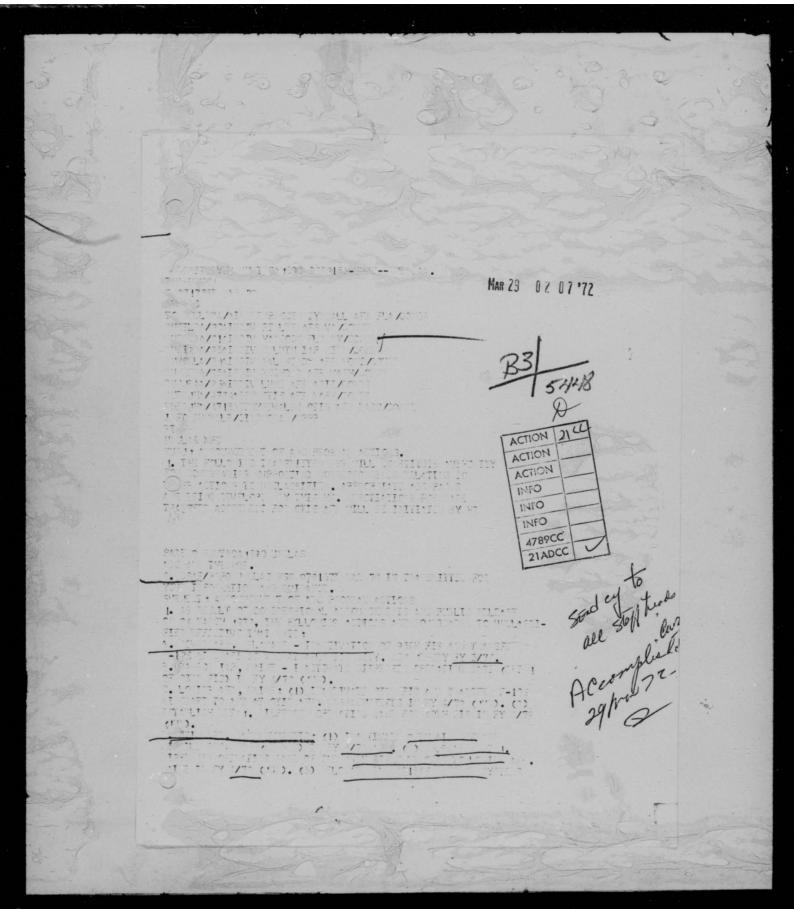
He became Deputy Chief of Staff, Operations, Headquarters Aerospace Defense Command in July 1971.

His military decorations and awards include the Silver Star, Legion of Merit with two oak leaf clusters, Distinguished Flying Cross, Air Medal with four oak leaf clusters, Air Force Commendation Medal, Purple Heart, Good Conduct Medal, and Air Force Outstanding Unit Award Ribbon.

General Price is married to the former Ellen Mae Harris of Dallas, Tex. They have three children: Jean Ann, James L. and Margaret Lee. His hometown is Dallas, Tex.

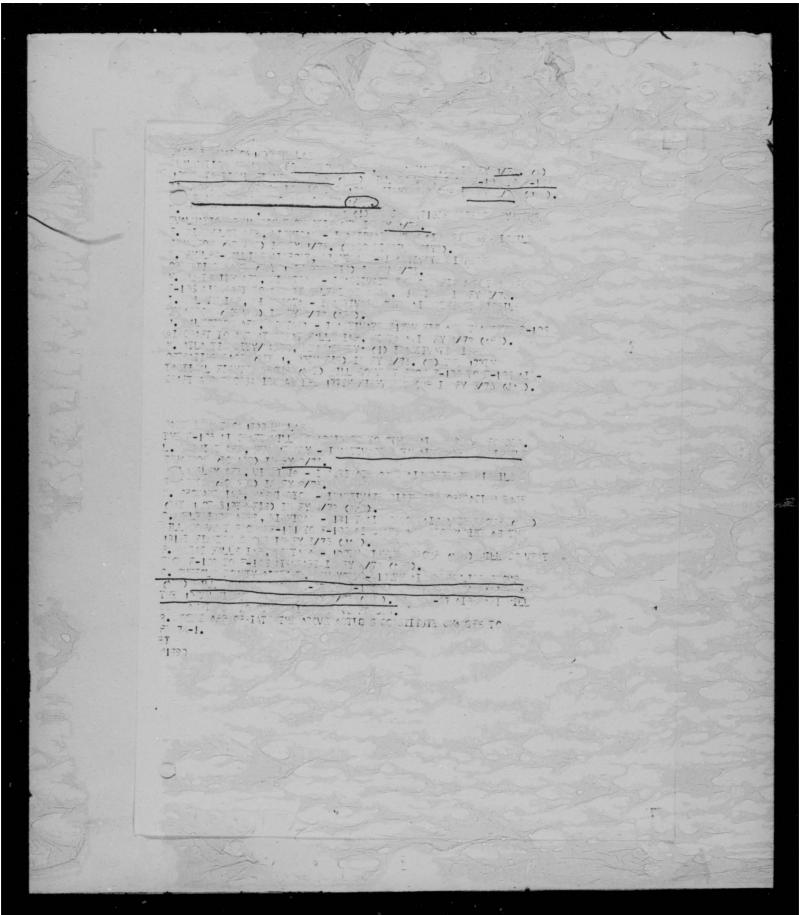
He was promoted to the temporary grade of major general effective November 1, 1971, with date of rank January 23, 1968.

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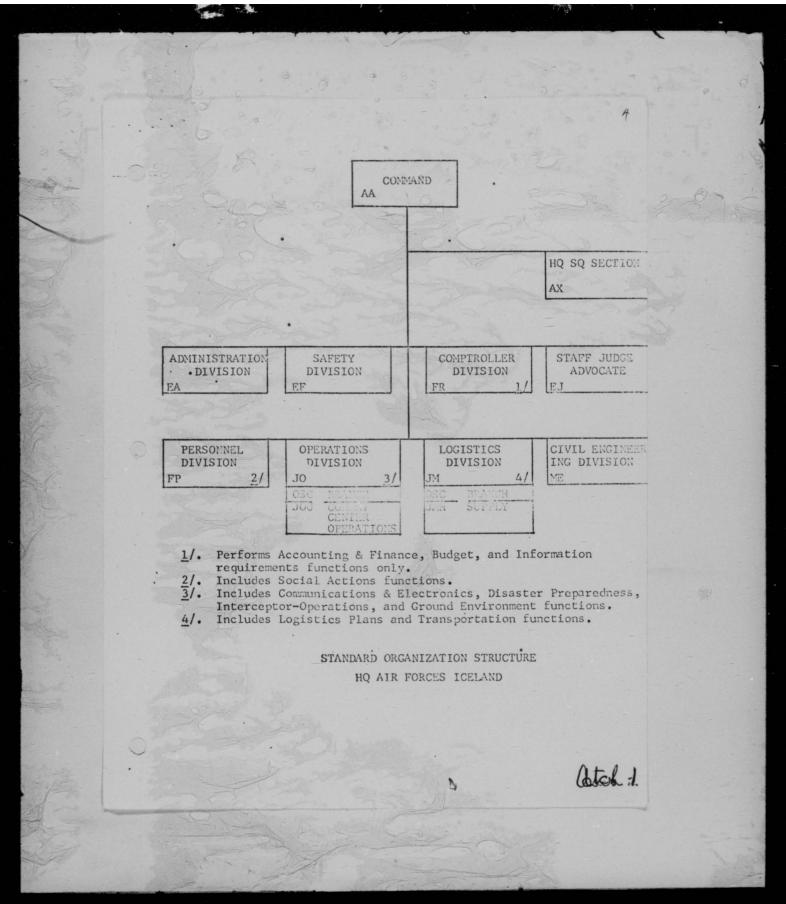


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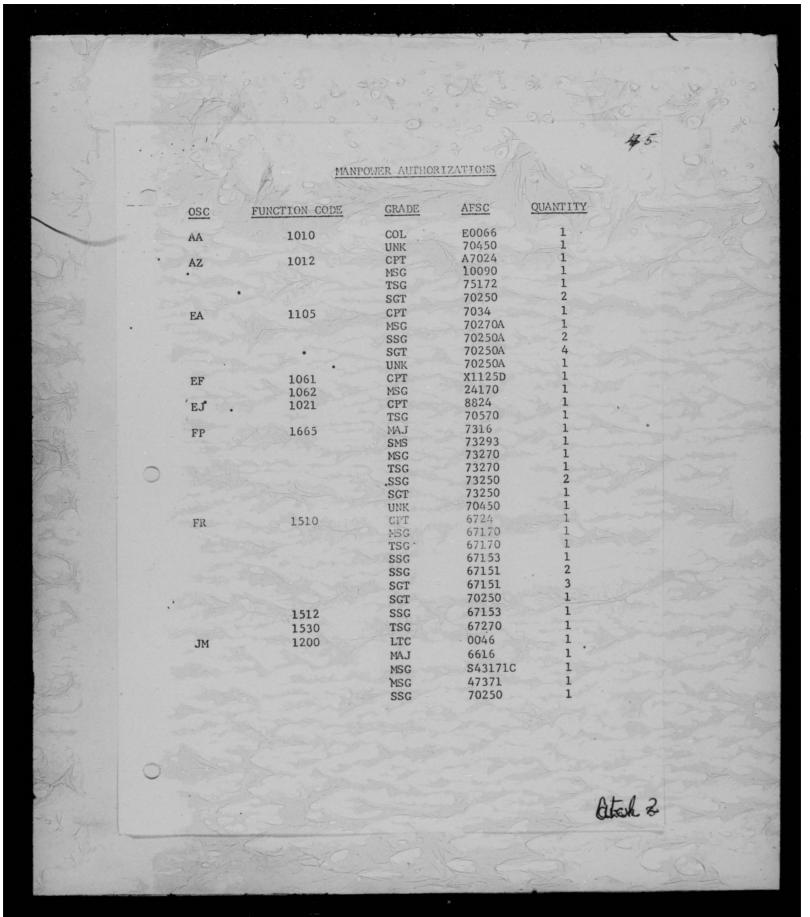
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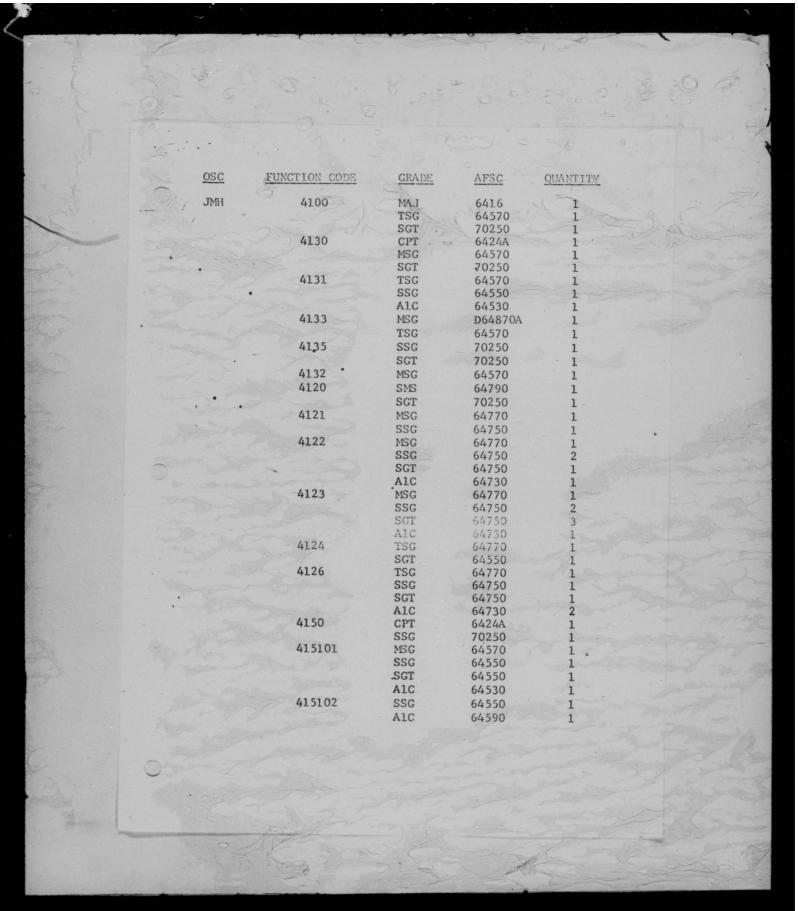


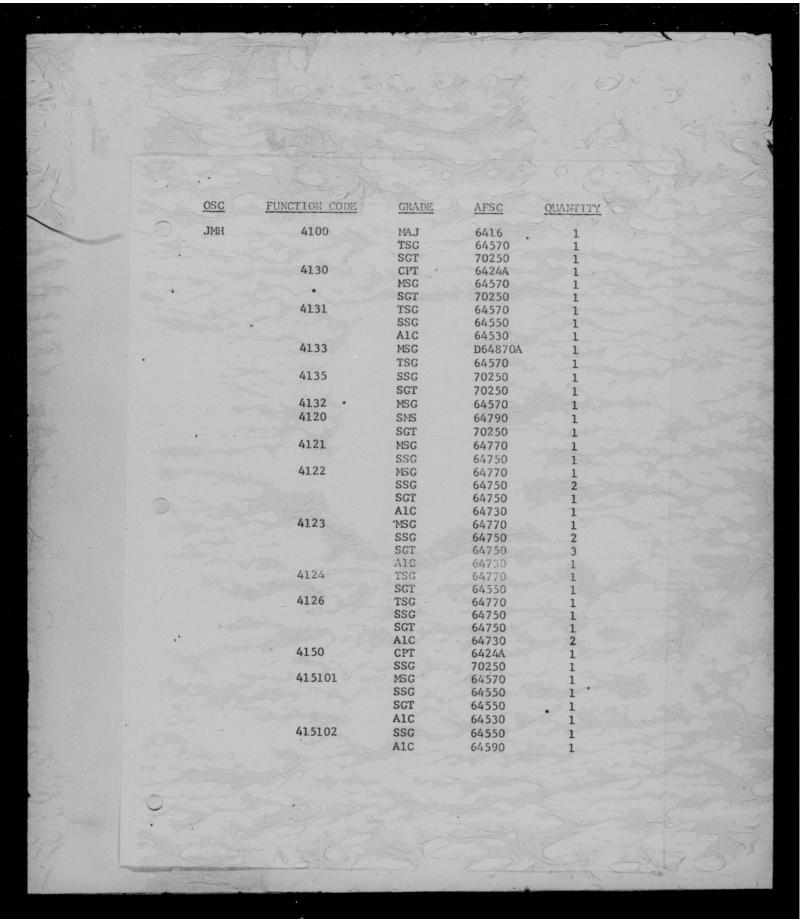
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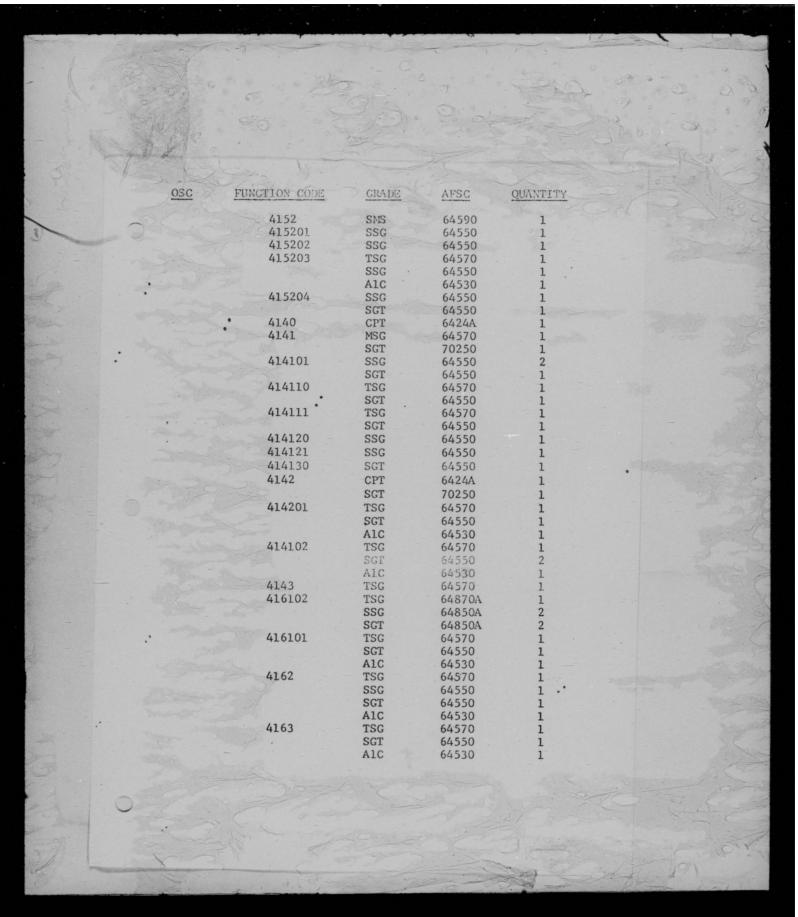
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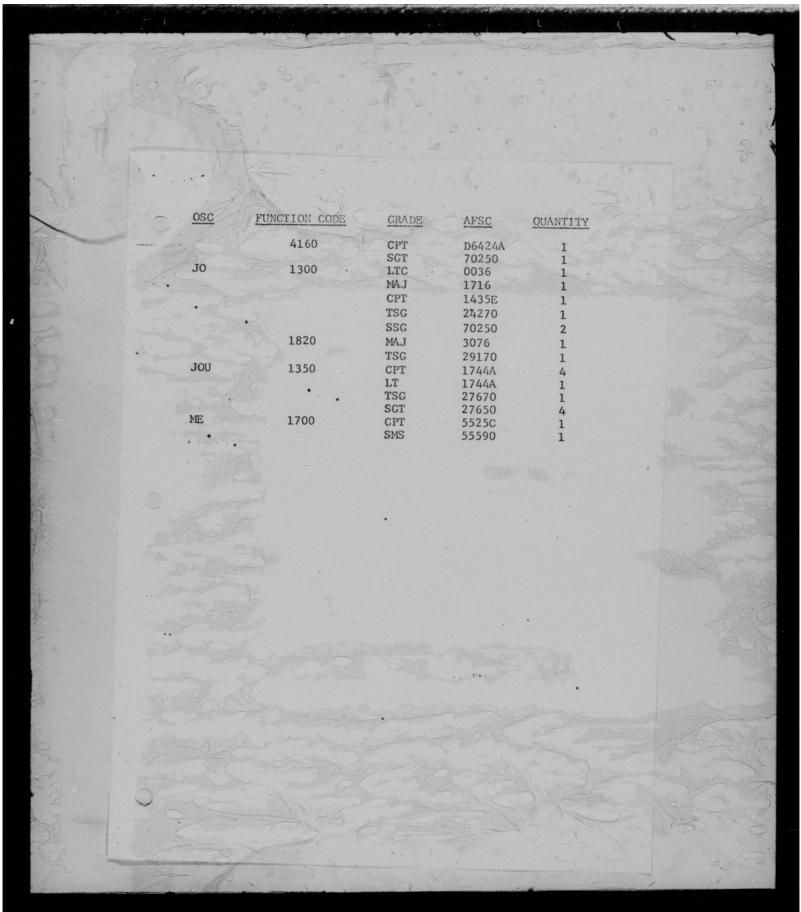


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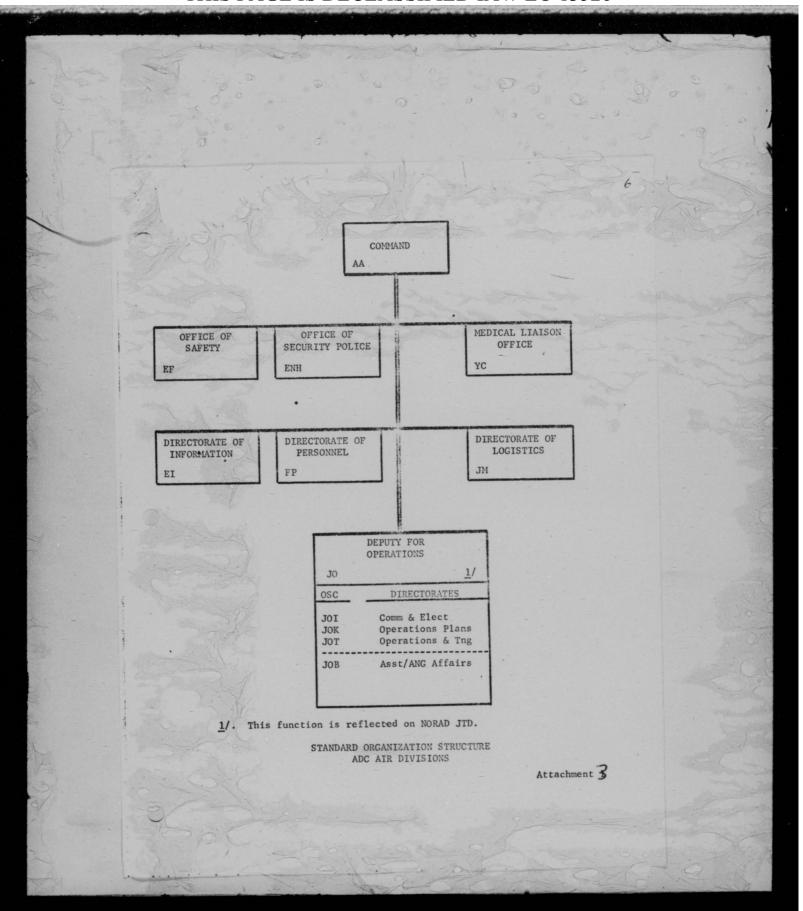


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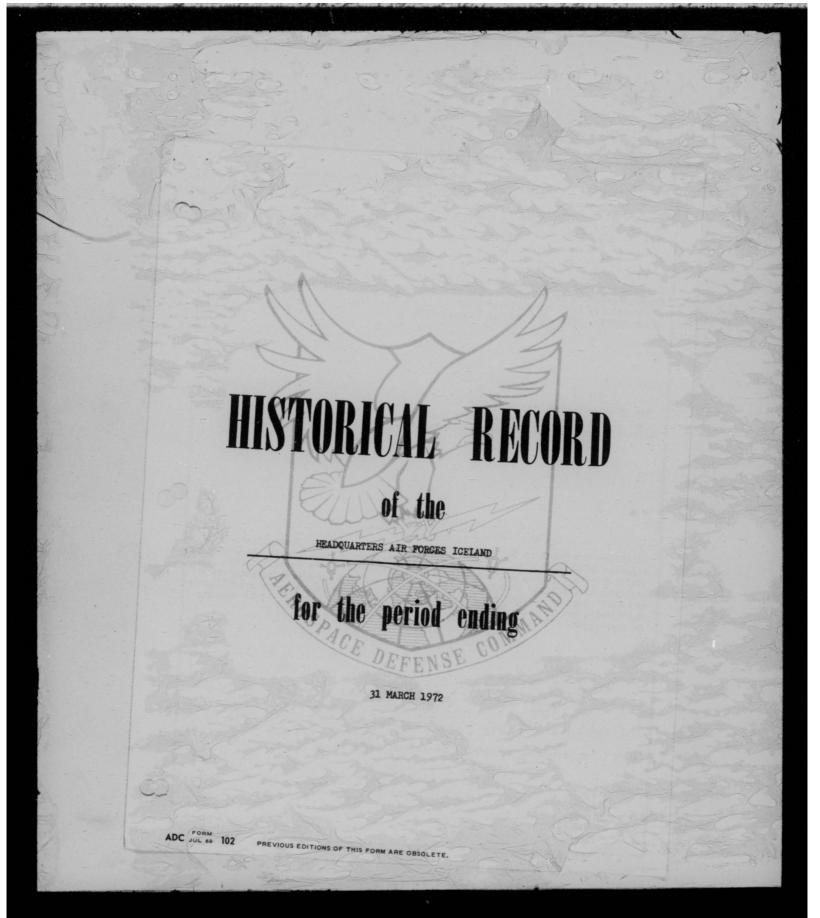
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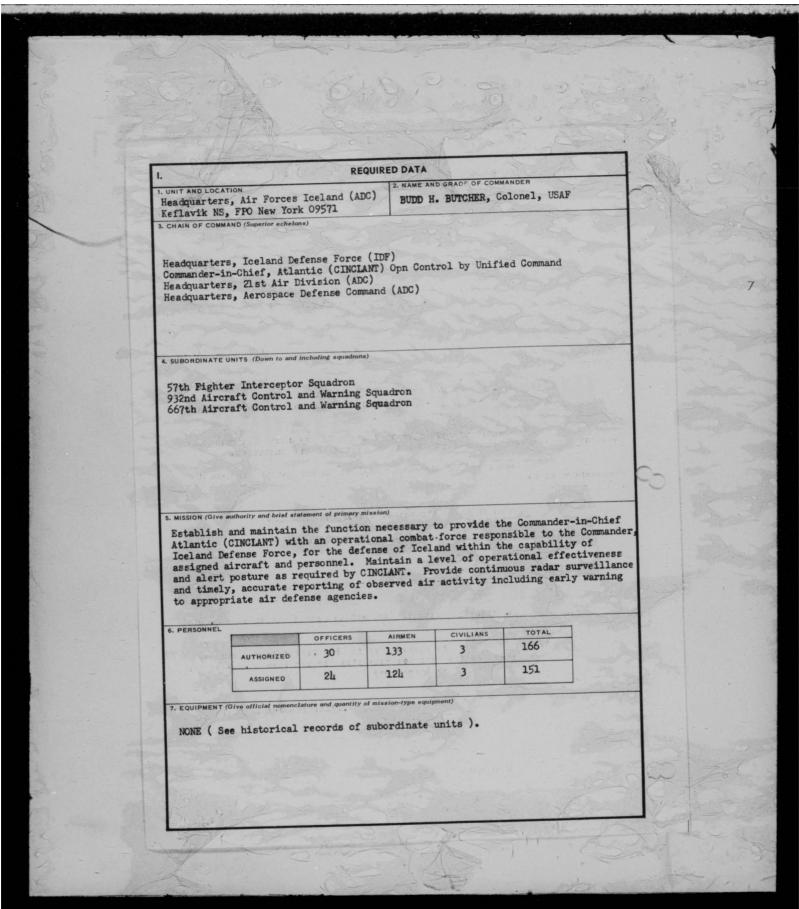
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186	This part should contain significant information relating to your unit's mission performance. Some basic subjects to include are: (1) operations and training; (2) changes to primary equipment such as radars, aircraft, etc.; (3) equipment performance; (4) facilities; (5) maintenance and supply problems; (6) personnel matters affecting the mission; (7) any other subjects bearing on mission performance. See ADC Supplement I to AFR 210-3 for additional guidance.
	1. DIRECTOR OF LOGISTICS:
l comer.	a. IGS, Chief of Supply:
-hano	(1) Major Accomplishments:
in upper left-hand	(a) An after duty support unit was implemented 9 February 1972, to furnish better response to the warious maintenance activities supported by the Chief of Supply.
by stapling t	(b) A program was established to control special levels. Deletion of over 5000 special levels was the result of this program during the first quarter of 1972.
securely	(c) Action was taken to declare and report (if applicable) all excesses in the account. All possible precautions are being taken to insure that only true excesses are shipped.
reassemble	(d) The Operational Support Section of the Equipment Management Officer was rewarehoused to provide better support to our customers.
	(e) New lighting has been installed in part of the Equipment Management area.
tearing along fold	(f) A complete realignment of the Receiving and Inspection Sections was accomplished to allow for better working conditions.
by tearing c	(g) All items within the supply account with "NO NOMENCLATURE" were researched and applicable nouns were established. This consisted of 1825 item records.
separate b	(i) The Document Control Section was relocated to provide a larger working area.
The state of the s	(j) The Reasearch Section was expanded about 50% to provide a better working area.
If necessary to facilitate typing,	(k) TSgt Charles R. Buckland of the Management Procedures Branch and SSgt James Dinsmore, of the Materiel Facilities Branch were presented the Air Force Commendation Medal during February Commander's Call for outstanding performance at their previous assignments.
sary to	(1) Quarterly ratings of supply effectiveness are as follows:
cess	Recoverable- 84.51%
If ne	BQQ - 73.92%
4	Equipment - 19.02%
	Total - 75.66%

H. COMMENTARY (Continued) (m) The total transactions processes within the account during the first quarter was 98,139; total line items maintained is 18093. (a) Logistics Staff Assistance Visit, 17 March 1972, resulted in a very favorable rating. (b) The first quarter surveillance visit of the Chief of Supply complex was conducted from 10 January to 24 March 1972. b. DE, Staff Civil Engineer: (1) Programming: (a) The facility utilization study in support of the 57th FISq interim facility position was finalized and forwarded to ADC. Three projects were approved, all providing for alterations for hangers 830 and 832. Hq ADC is accomplishing design and expects completion in June 1972. (b) In keeping with the overall Project Volunteer program, custodial contract drawings and specifications were delivered to the ROICC office and programming documents were forwarded to Hq ADC for barracks improvement projects under the Civil Engineering Service Dorm Program. The custodial contract is being held in abeyance by the Naval Station; no action will be taken on the Service Dorm Project package by ADC until they decide whether Air Force or Navy standards will be utilized in Iceland. Total project value under Service Dorm is \$546,100. (c) The following projects were submitted for funding: KEF 73-122, Alt Vent System, Dye 5. KEF 73-124, Inst Power Line, Base Supply. KEF 73-125, Inst Gym Floor, Site H-3. (d) Funds were received for one project, KEF 72-111, Const Chaplain Offices. This is in support of the two Air Force Chaplains. (2) Current MCP: Three projects were approved by Hq, USAF and forwarded to the Congress for approval. All others included in the FY 73 MCP will slip to the FY 74 Program. The three projects proposed for Keflavik are: Engine Test Stand. Engine Run-up Facility. Avionics Shop. (If more space is needed, continue on blank sheets, size 8 x 101/2, MICHAEL D. AHLBERG, Captain, USAF APPROVED BY (Typed name and grade of Commander) BUDD H. BUTCHER, Colonel, USAF

- (3) Visitors: An engineering team from Hq ADC came to gather sufficient information to accomplish project design for the interim facility position in support the 57th FISq. Accompanying the team was the engineer manager responsible for validating projects for Iceland and answering questions concerning civil engineering problems in Iceland as they come up at the Headquarters. He visited both radar sites as well as the Public Works Offices at Keflavik.
  - (4) Construction Projects:
- (a) The ROICC office began negotiations on the hanger alterations to support Det lh's Squadron Operations function. Project award is expected in April.
- (b) Material was received to install two BAK-12 barriers on runways 03 and 30. Public Works is accomplishing the design and project award is expected in April.
- (c) The Rockville dining hall project experienced another job stoppage, this time due to a shortage in the government furnished floor tile. This tile was ordered and lost in shipment. Tracer action has been initiated by the vendor.
  - c. LGT, Transportation:
    - (1) New tires were installed on all Aircraft Towing Tractors.
    - (2) Snow tires were installed on all Air Force vehicles during this period.
- (3) Request forwarded to ADC requesting replacements for all H Coded AGE actors and other Air Force assigned vehicles.
- d. Personnel: During the period of this history report, the following losses and gains heve been experienced:

BRANCH	LOSSES	GAINS
Supplies Management	5	7
Equipment Managemant	3	5
Item Accounting	2	4
Management and Procedures	1	5
Materiel Facilities	6	12
	17	33

#### 2. CHAPLAIN:

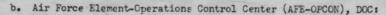
- a. Chaplain, Captain John F. Mahoney, Catholic Chaplain, arrived from Sondrestrom, Greenland, 28 February to serve as the first Catholic site Chaplain assigned to Air Forces Iceland. His major responsibilities will include monthly visitations to Rockville and Hofn.
- b. Work has begun on two new Chaplain offices and an administration office for the AFI Chaplains in building 7h0. With anticipated completion in May, the Air Force Chaplains will be more centrally located for service to AFI units.
- 3. SAFETY: There were no serious accidents or incidents during the period of this story.

#### COMPTROLLER:

- a. Accounting and Finance:
- (1) ACF continued to operate under a manual accounting and reporting system. The new system has proven to be less effective than the previous mechanized system due primarily to the increased chance for human error inherent in a manual operation. Personnel are becoming more familiar with the system as time passes and no major problems are expected in the future.
- (2) The Military Pay and Travel section was notified that the servicing Accounting and Finance Office for Keflavik leave accounting processing would be transfered from Loring AFB, Maine to Ent AFB, Colorado effective 1 April 1972. Revised leave processing instructions received from Ent shifted a substantial portion of leave accounting administrative processing from this office to the units. No major problems have been encountered in this change.
- (3) ACF was informed by ADC/ACFS that effective 1 April 1972 this office would no longer be an agent of the Sondestrom AFO and would become an agent of the Ent AFB Accounting and Finance Office, ADSN 6761. Our ADSN was changed to 676102 because
  - (4) SSgt Jerry E. Harris arrived this station 11 February 1972.
  - b. Budget:
- (1) The 2nd Revision to the FY 72 Budget was prepared and forwarded to ADC/ACB. Numerous critical areas remain unfunded at the present time.
  - (2) The FY 73 Initial Financial Plan was prepared and forwarded to ADC/ACB.
- (3) The budget office was the subject of a 21st Air Division staff assistance visit in January. The financial management program was found to be satisfactory and Mr. Murphy, 21st AD/ACB will visit the budget office again in May 1972.

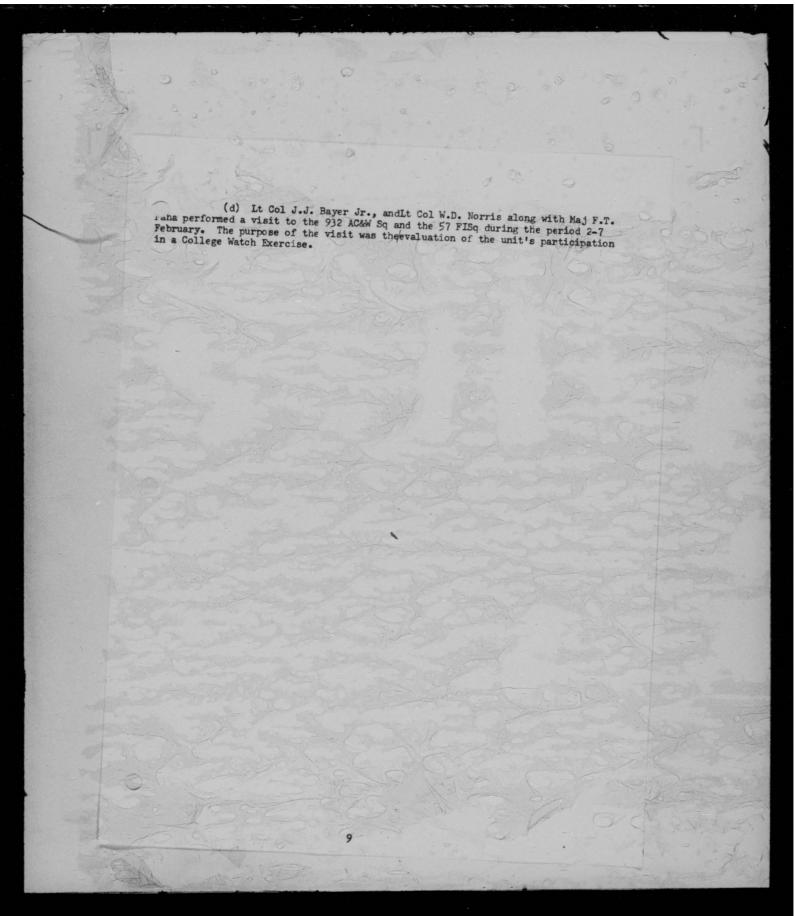
### 5. DIRECTOR OF OPERATIONS:

- a. Communications and Electronics, DOK:
- (1) Efforts were concentrated to initiate planning for the overall communications improvement in AFE-OPCON and 57 FISq. Mr. Crockett, 21st Air Division (DOKA), visited Keflavik during this quarter to formulate planning procedures and provide guidance.
- (2) The 57 FISq Automatic Electric two-digit system underwent emergency maintenance by an AFCS team from Griffis AFB, NY.
- (3) A draft copy of Expert Vehicle communications validation was forwarded to Hq ADC for review and concurrence. The validation is necessary to insure continuity of support provided by the Naval Station Communications Station, Keflavik.



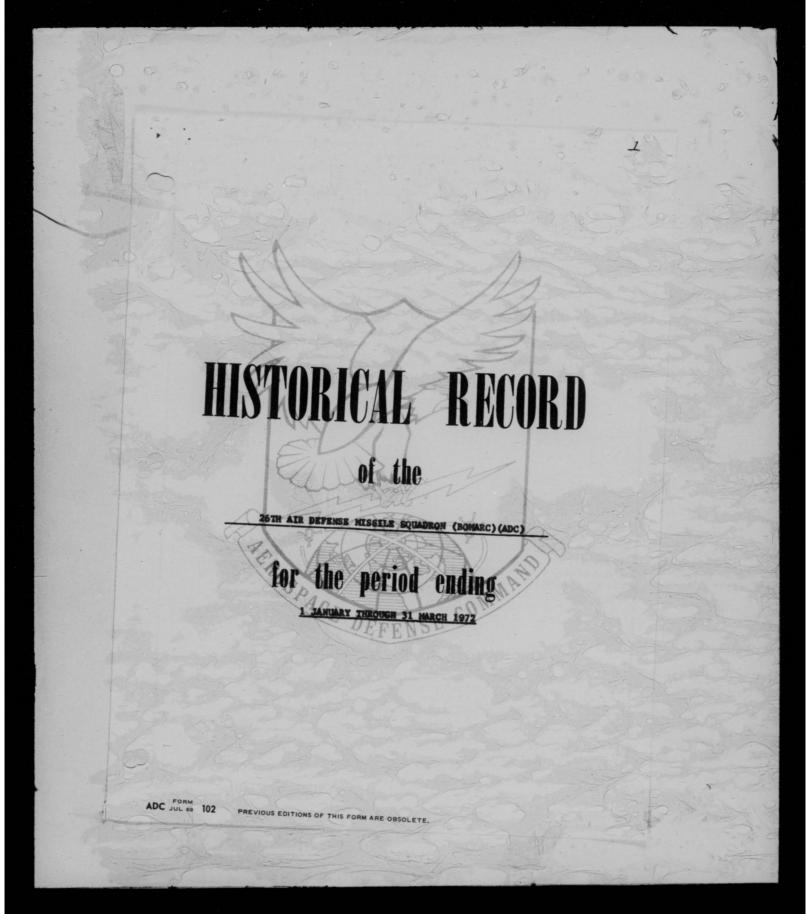
- (1) During the period of this history there was a very significant increase in Soviet air activity. Most of this activity was in support of a Soviet Hotel Class submarine which became disabled southwest of Iceland. The submarine was put under tow and returned to the North Fleet.
- (2) In addition to monitoring all SAR flights the AFE-OPCON played a prime roll in lifesaving efforts. The Duty Controller is responsible for initial reaction until relieved by the SAR Mission Coodinator, in addition the AFE-OPCON acts as the Joint Rescue Coordination Center (JRCC) for a major portion of the North Atlantic.
- (3) Due to quick reaction and immediate launch an Icelandic man was rescued when his one-engine aircraft ditched in Reykjavik Harbor. A HH-3 Helo. was launched and picked up the man less than 25 minutes after he landed in the water. This effort received a great deal of local press coverage. This occurred on L January.
- (4) On 16 March a heart patient was transferred from Reykjavik to a hospital in England. The AFE-OPCON acted as coordinator on this mission after receiving the request from the Icelandic Lifesaving Association.
- (5) On 30 March a scientist conducting research on one of Iceland's largest glaciers was pulled from a crevice by one of the HH-3s. The indivual had fallen and efforts of the local rescue team were not successful. AFE-OPCON maintains effective laison with Icelandic national rescue agencies.
- (6) On 31 March both the HC-130 and HH-3 were scrambled on a two-engine aircraft with two persons on board. The aircraft was low on fuel and the pilot feared he would have to ditch. The HC-130 dropped flares and the HH-3 was able to remain in trail of the aircraft in distress. Again Icelandic press sources gave great credit from the SAR efforts and coordination with the Icelandic Lifesaving Association.
- (7) Due to the low flying activity because of the winter months only twenty-three emergency requests were processed. Notification of the IDF Chief of Staff along with staff personnel were notified.
  - (8) Four Helping-Hand notifications were processed during the period.
- (9) A test of local operations instructions was conducted with a crash drill conducted on 27 March.
  - c. Ground Environment, DOTE; Fighter Officer, DOTWO:
- (1) The 21 Air Div Ground Environment Staff Assistance Team visited AFI and subordinate units during the period 15-18 Feb 72 for the purpose of reviewing and evaluating the operations functions at each ground environment unit. Discrepancies noted were corrected at each unit prior to 31 March 72 with continued follow-up required through the 21 Air Div MIDS Index.
- (2) ADC is providing funds to System Development Corporation (SDC) for production of two Manual System Training Missions. This section coordinated the request with the appropriate agencies.

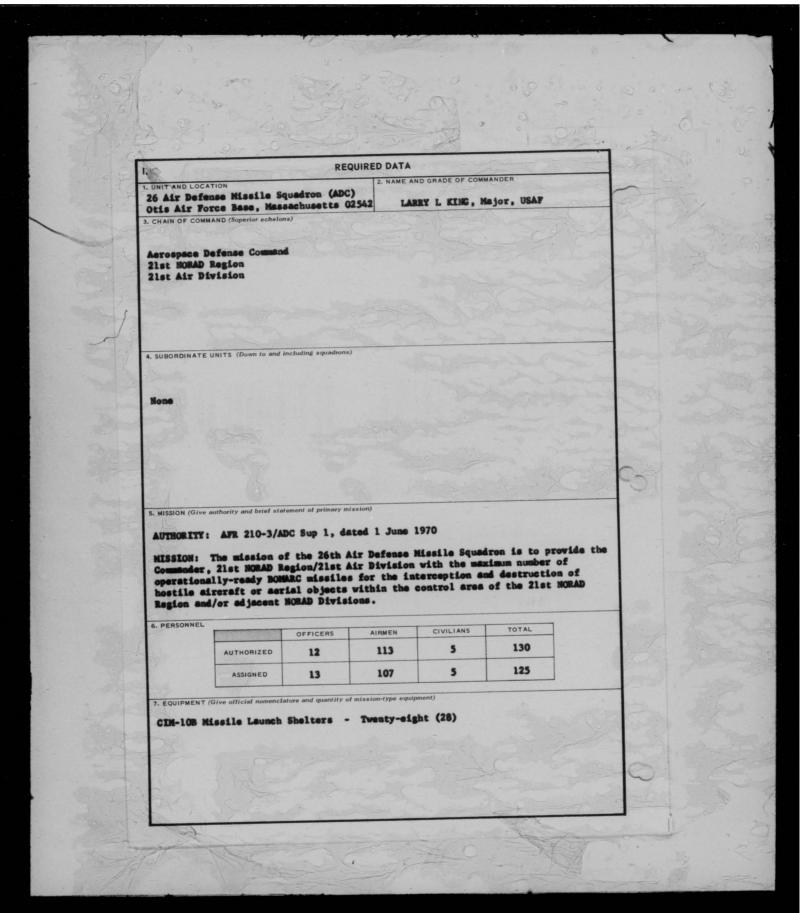
- (3) AFI contracted with an ITT Artic Services' unsolicited contract proposal spaces are manned with USAF personnel.
- (4) The first Operation Charabang was conducted on 18 Feb with two additional training missions in March. This effort culminates three years of planning and
- (5) College Watch 1-72, 2-72 and 3-72 exercises were conducted by this office during the period with additional Mini-Watches scheduled to give the ground environment air battle training due to a heavy turnover of personnel. College Watch 1-72 was as near an ORI as resources would permit with testing of aircrews and ground environment personnel, flush, armament turnaround, AWST and an air battle. Numerous additaround, flush, and AWST procedures.
- (6) A new agreement was signed with the Icelandic Civil Aviation Agency (ICAA) which allowed flushing of aircraft for survival purposes. This agreement was considered a major breakthrough in USAF dealings with the ICAA.
- (7) Procedures were developed with ICAA which allow random radar recoveries of interceptor aircraft. This was considered as the first step in improving the air traffic environment and an essential part of the interface with ICAA and H-l. by H-l and Keflavik GCA. These recoveries will be conducted routinely by H-l and Keflavik GCA. These recoveries will be monitored by ICAA on their scopes.
- (8) The 21 Air Division conducted a Staff Assistance Visit involving AFI agencies and the 57 FISc beginning 7 March. Operations procedures and concepts were inspected and found satisfactory. Many kudos were received from the team. The AFI Flight Examiner was also given a no-notice standardization flight check.
- (9) During this period MSSgt Arnold R. Davis arrived at this station and started this units Disaster Preparedness Program.
- (10) Soviet air activity within the Icelandic MADIZ during this quarter was extensive. Sixty-six aircraft were intercepted.
- (11) The following staff assistance visits were performed by this head-
- (a) It Col J. J. Bayer, Jr. performed a visit to the 932 AC&W Sq on The Operations and Communications-Electronics classified security in accordance of the CDIF was inspected. Minor discrepancies were noted in both areas and corrective action was taken and corrected at that time.
- (b) Capt D.W. Pedersen performed a visit to the 57 FISq on 11 January. The purpose of the visit was to identify communication problem areas at the Command
- (c) Lt Col J.J. Bayer, Jr., and MSgt Showalter, 932 AC&W Sq, performed and evaluate the 667 AC&W Sq on 12-13 January. The purpose of the visit was to review the CDIF in accordance with AFIR 55-8. Classified security was also inspected during this visit.



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14	VISITORS LOG	SALITA
3. 3/	Jan-Mar 1972	
TEAM	DATES	PURPOSE
Lt Col Fulcher + 3	11-18 Jan	Admin Assist Visit
Mr. Tompkins	26-29 Jan	Mil Const Survey
Col John Carey	19 Jan	JAG
BGen Everest + 5	7-8 Feb	Det 14, Staff Visit
Mr. Curtis Smothers (GS-16)	23-26 Jan 72	Equal Opportunity
Cmdr Taylor		" "
1st Lt Hinton	1 Feb	Site Orientation
Maj Trombley	3-4 Feb	Orient. Visit (Dye 5)
Capt Lovering + 1	8-9 Feb	Site Investigation
Capt Washington + 2	8-9 Feb	Operations Visit
t Rock & CMS Greer	28 Feb -8 Mar	Orientation Visit
Maj Mark Smith + 2	6-10 Mar	Maint/Sup Gnd Elec SA
Col M. Duncan + 35		Staff Assistance Visi
MSgt George Carnes	28 Feb- 7 Mar	Personnel Staff Visit
Mr. Irbly & Mr. Blink	23 Feb	Rockville
Mr. Thomas Carlsson	3 Mar	Political Editor of Morganbladid
Iceland Foreign Misister	10 Mar	Visit to Rockville
Col Ewing + 15	7-11 Mar .	Staff Visit to Det 3
Mr. Crockett	5-12 Mar	Communications
SMS Wortman		Det 3
Brig Gen Frank Everest	29-30 Mar	Det 14, Staff Visit
MSgt Baker & TSgt McCrossn	10 Mar	Photo Coverage

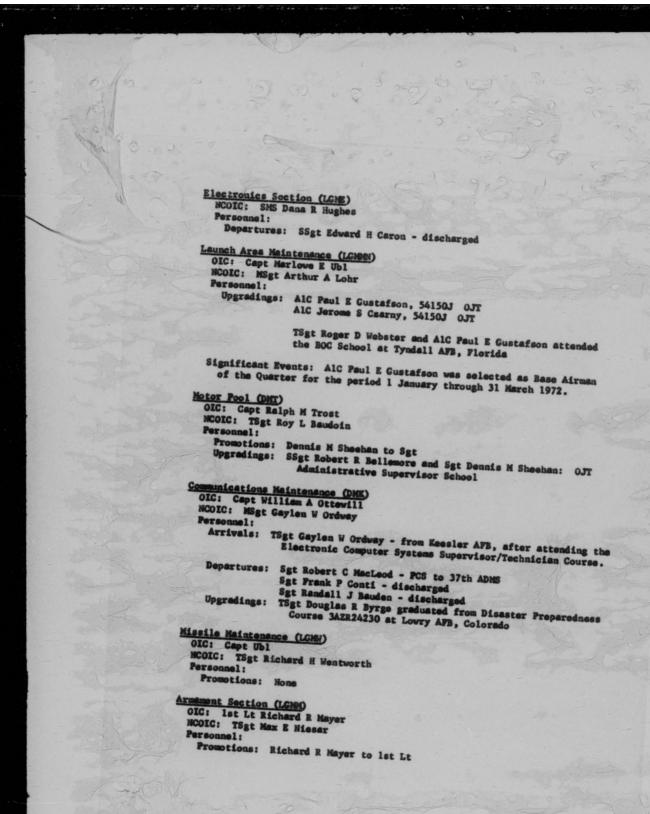




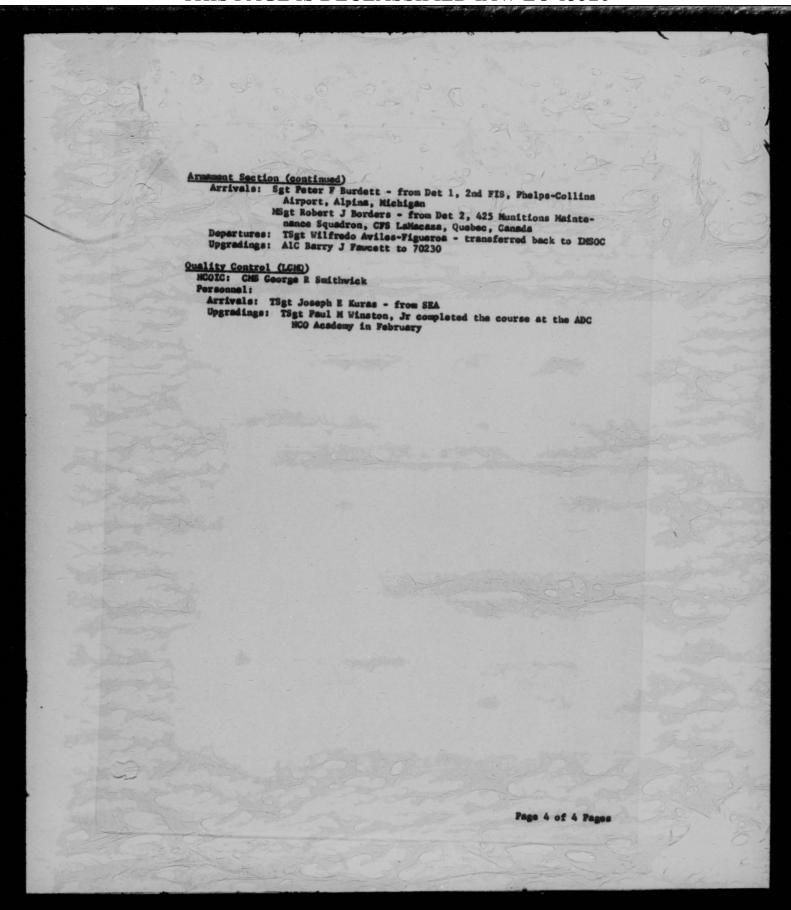
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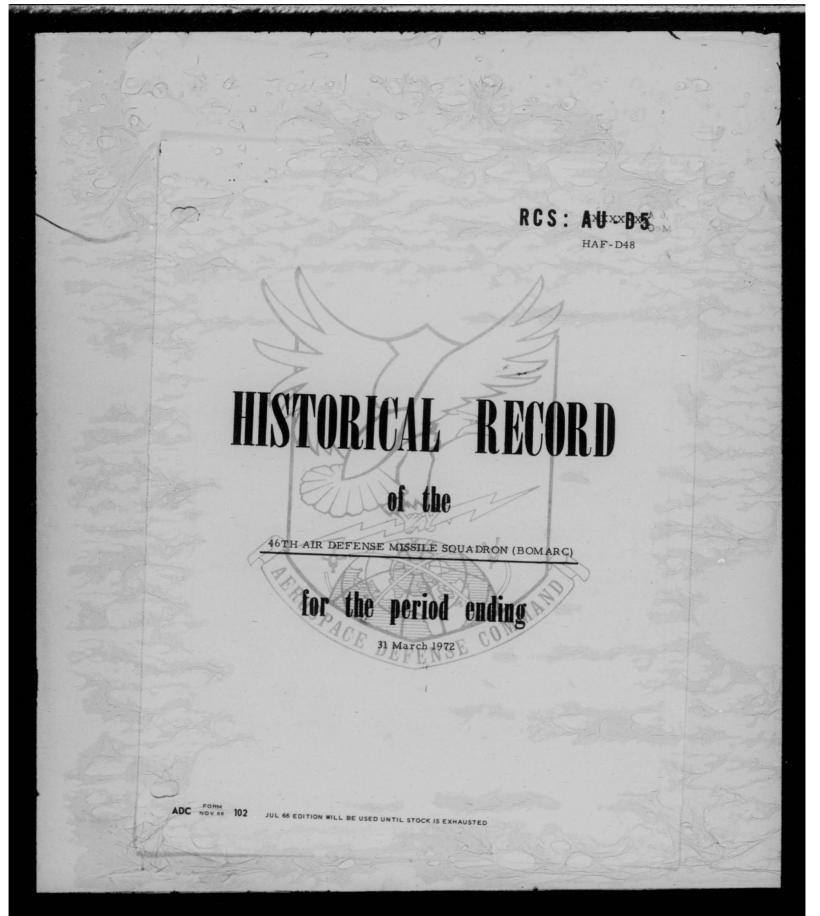
This part should ontain significant information relating to your unit's mission performance. Some basic subjects to include are: (1) operations and training; (2) changes to primary equipment such as radars, aircraft, etc.; (3) equipment performance; (4) facilities; (5) maintenance and supply problems; (6) personnel matters affecting the mission; (7) any other subjects bearing on mission performance. See ADC Supplement I to AFR 210-3 for additional guidance. 12 Jan - Visit of General Williams (21CC) and Colonel Dunaway (21CV) 17 & 18 Jan - Visit of 21SE Staff Assistance Team 31 Jan - Visit of Lt Col Stephen Flanagan, 46th ADMS/CC left-2 - 4 Feb - The unit commander attended the 21st Air Division Commanders Conference and the retirement ceremonies for General Williams at Syracuse, New York 16 & 17 Feb - The unit commander attended the ADC Commanders Conference at Tyndall Air Force Base, Florida 2 Feb - Visit of Major General Horace A Hanes, Hq ADC/CV by 6 - 10 Mar - The unit commander and chief of maintenance spent the week at Hq ADC. Purpose: unit inactivation procedures 15 Mar - Visit of Lt Colonel Thomas L Hattaway, CC of 773rd Radar Sq at Montauk AFS, New York Items of interest occurring within the sections are as follows: Command Section (CC)
Commander: Major Larry L King First Sergeant: CHSgt Douglas Anderson Secretary: Mrs Evangelyn A V Henderson Significant Events: as listed above by Administration Section (DA)
OIC: 2nd Lt William A Balagna NCOIC: SSgt Edward A Welch Personnel: Arrivals: Sgt John D Francisco Departures: Sgt Leon M Barros - to ATC, Lowry AFB, Colorado Upgradings: SSgt Edward A Welch - Base-Level Management School, Otis AFB facilitate February 1972 Lt Balagna attended school for the 30BR7031 Course at Keesler 07 AFB, Mississippi from 5 January to 22 February 1972. Significant Events: AlC Mary E LaCasse was elected/selected Squadron Airman of the Quarter in March Operations Section (DO) OIC: Capt William A Ottewill NCOIC: Sgt Salvatore Aluia Personnel: Departures: Capt Philip S Walter - discharged 15 Feb 72 Capt Stephen P Judd - discharged 29 Feb 72

1	A O PAN A PAN			
11.	COMMENTARY	(Continued)		P. Bright
	Upgradings: Cant David A Engle	is attending Squadron Officer School.		
	Will graduate 15 A	April 1972. Walter, Jr was awarded the Air Force	1925	
39	Commendation Medal upon discharge			
100	Missile/Nuclear Safety (SE) OIC: Capt Dominic J Ottavi			
	MCOIC: MSgt Robert W Savig (as an	additional duty)	-	
	Wespon System Supply Section (LGS)			
1	SUPPLY SUPERINTENDENT: SMS Emmett MCOIC: TSgt Frank G Carothers	C Warren		
	Personnel: Arrivals: SMS Emmett C Warren -	from Eglin AFB, Florida		
28	BOMARC Engineer Section (DE)		1	
	NCOIC: SNS John E Teegarden Personnel:			
1/2	Promotions: Gerald J Dee to TSgt	effective 1 Feb 72 Sgt effective 1 Mar 72		
5	Arrivals: Sgt Jeffrey P Hayward Sgt Frederick R Scott	- from Charleston AFB, S C		
	Sgt John D Shaw - from			
	SMS John E Teegarden -	from SEA	10	
1	Departures: Amn Daniel A Languer	- to the Asores		
	Sgt Robert E Rudasill TSgt James H Rose - 1	retired	1	
2	Sgt William P Whiting	e - separated		
	Upgradings: AlC Ivan D Heon is at School at Sheppard	AFB, Tex	at the l	
	Chief of Maintenance Section (LCH)			
	OIC: Capt Marlows E Ubl NCOIC: MSgt Losey J Winslow, Jr	/	1	
	Significant Events: On 6 to 10 Marchig ADC to coordinate final approve	al of PAD 72-7. Insettuation of	2001	
	the 26th Air Defense Missile Squad	iron (BOMARC).	1	
	Maintenance Control (LGMA) OIC: Capt Ralph N Trost			
	NCOIC: MSgt Losey J Winslow, Jr		1	
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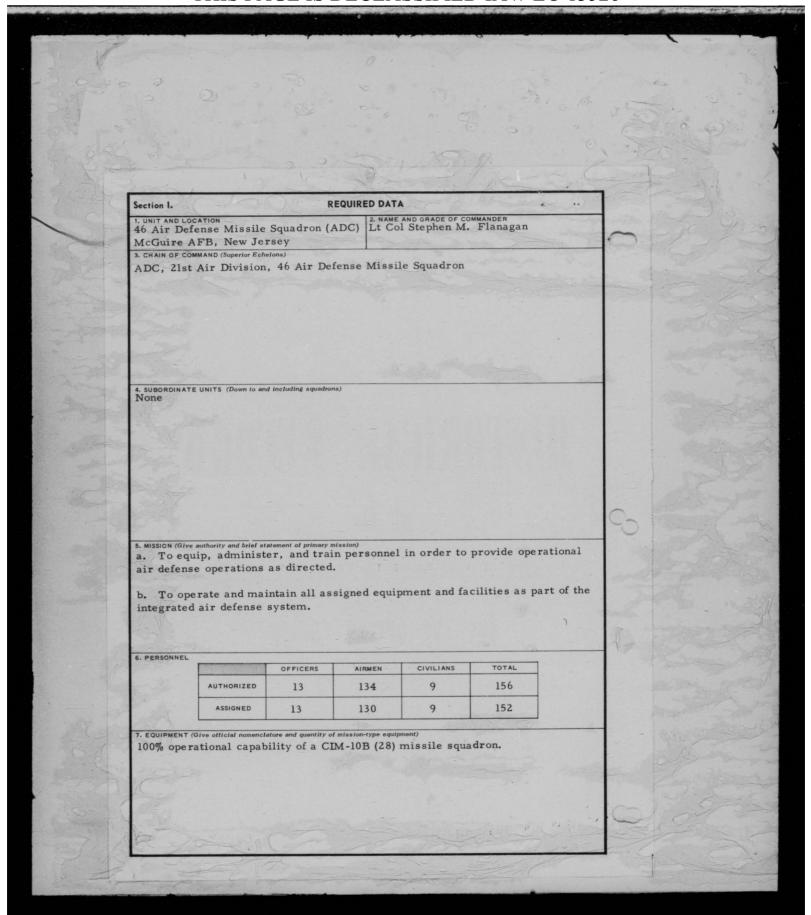


Page 3 of 4 Pages





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#### COMMENTARY

(See ADC Supplement I to AFR 210-3 for additional guidance)

PART A. This part should contain significant information relating to your unit's mission performance. Some basic subjects to include are: (1) operations and training, (2) changes in primary equipment such as radars, aircraft, etc.; (3) equipment performance; (4) facilities; (5) maintenance and supply problems; (6) personnel matters affecting the mission; (7) any other subjects bearing on mission performance.

#### COMMAND AND SUPERVISION

A message was received 26 March advising us that as a result of the ADC realignment, the 46th ADMS is scheduled for inactivation in the second quarter of FY 73. As a result, several actions have been taken to ready the squadron for its closure. A letter was sent to the Base Civil Engineer listing projects and work orders that may be cancelled, continued support requirements and required contract services needed until complete phasedown procedures are completed.

The Program Action Document (PAD) has not been received but it is expected within the next few weeks.

To date, two inquiries have been received from agencies interested in the site facilities after unit inactivation. The New Jersey Army National Guard has expressed a desire to use it for an armored vehicle unit and a helicopter unit, and a message was received from ADC advising us of a forthcoming visit to this unit by an FCDNA representative to assess site facilities.

21 Air Division conducted a Supply and Administration Staff Assistance Visit. Lt Col Harada, Mr. Murphy, and CMSgt Semmel arrived at the unit on 22 February. Results of the visit were satisfactory.

#### SAFETY

The Safety Officer, Lt Robert B. Gammill, separated from the Air Force. Capt Albert Spencer has been appointed Safety Officer as an additional duty.

There were no reportable accidents this quarter.

### CIVIL ENGINEERING

Manning in the utilities plant has been critical this quarter. Both the air conditioning and power plants are short, while the heating plant shortage is so severe as to necessitate implementation of twelve hour shifts.

UPS Generator #2 is currently deadlined for a magnetic clutch assembly and coupling assembly. ADC has deferred this work due to lack of funds. This action is being contested since the lack of this UPS unit limits site capability.

A complete review of all EAID equipment assigned to the Civil Engineer function was accomplished. All excess property was identified and turned in to Base Supply.

Overhaul of Joy Compressor #2 and Chiller #3 was necessary but was deferred by CEMIRT due to lack of funds.

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#### COMMENTARY (Continued)

PART B: This part should include a list of key personnel and information on: (1) community relations; (2) awards and decorations; (3) morale; (4) any other subjects the commander may wish to include.

### AWARDS AND DECORATIONS

The Air Force Commendation Medal was presented to SSgt Walter Zamkotowicz for meritorious service while assigned to the 22 Air Def Msl Sq, Langley AFB, Va., for the period 30 Aug 1964 to 17 Dec 1971.

Sgt William A. Barca was presented the Air Force Commendation Medal for meritorious service while assigned to the 823 and 554 Civil Engineering Squadrons in Vietnam for the period 6 Oct 1970 to 5 Oct 1971.

On retirement from the Air Force, TSgt Charles H. Winslow was awarded the Air Force Commendation Medal for meritorious service at this unit from 23 Apr 1969 to 29 Feb 1972.

MSgt Johnny L. Griffin was presented the Air Force Commendation Medal for meritorious service while assigned to the 460 Fighter Interceptor Squadron Kingsley Field, Oregon, for the period December 1968 to 15 April 1971.

The Air Force Commendation Medal was presented to TSgt Boyce N. Ray for meritorious service while assigned to the 4751 Air Def Sq, Eglin AF Auxiliar Field 9, Florida, for the period 10 Nov 1966 to 26 Jul 1971.

Sgt Steven E. McPherson was awarded the Air Force Commendation Medal for meritorious service.

NCO of the Quarter was TSgt Francis Kaminski of the Power Production Section.

The following personnel were selected as Airman of the Mon th:

Sgt Gary Rose for January Sgt Alexander Lazzari for February Sgt Douglas W. Allen for March

The following personnel were selected for promotion to Senior Master Sergeant:

> MSgt William D. Birkett MSgt Dale R. Blase MSgt Baltazar Castillo MSgt Joseph G. Herman MSgt Marion F. Robertson

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ALICE E. PRESCOTT, Civ, GS-5

APPROVED BY (Typed name and grade of Comm STEPHEN M. FLANAGAN, Lt Col, US

PART A. Cont'd

During a wind storm in late February, severe damage was sustained to roof covering on one side of the roof of Shelter 3-28. The shelter was removed from alert status and a contract let to repair the roof.

Among the many accomplishments this quarter:

- a. Badly deteriorated sentry shacks in the launch area were replaced by new ones built by the Base Civil Engineer Section.
- b. Well Pump #2 has been rebuilt by Base Civil Engineer and should be reinstalled shortly.
- c. Extensive interior painting and repairing of floor tile has been accomplished throughout the site.
- d. Internal maintenance of site boilers was completed by the base heating
- e. All "A" missile shelters have been reduced to category four, excess to mission, and have been secured.

#### SECURITY

The Security Section underwent a MAC ORL Excellent comments were made by the inspectors concerning the readiness of the security personnel.

Security Police personnel remodeled and repainted the alarm room improving its appearance appreciably.

#### MAINTENANCE

Major Alexander, CMSgt Jenkins, and MSgt Carter of the 21 Air Division conducted a Weapons Maintenance Staff Assistance Visit 21 through 23 March 1972. The unit was rated Satisfactory.

Three TCTO's were accomplished this period: TCTO 35E4-14-529 on Shelter 3-18 and TCTO 35-1-525 on each of our two MClA Generator Sets.

Because of proposed squadron deactivation, future time changes and TCTO requirements for missile and shelter equipment have been suspended.

2

### PART A. Cont'd

Periodic inspection intervals for the BOMARC missile and shelter have been changed from 90 to 120 days.

Aerospace vehicle status (RCS: 1-HAF-Al, AFM 65-110) for the period was:

	NORM	NORS	OR
January	3.1	0.0	96.9
February	3.0	0.1	96.9
March	3.7	0.6	95.7
Average	3.3	0.2	96.5

Status factors are all well within the Air Force standards of 5.0 NORS, 24.0 NORM and 71.0 OR. These factors reflect no significant trend when compared with previous data.

Technical inspections were as follows:

	Total Inspections	Inspections Without Discrepancies	Rate
January	118	94	80%
February	94	81	86%
March	119	96	81%
Overall	331	271	82%

The ratio of no discrepancy inspections, four of five, is highly satisfactory.

The Air Force Auditor General visited the squadron in January with satisfactory results. Major purpose of the inspection was to determine what elements of maintenance data are auditable.

The Maintenance Documentation Error Rate was:

	Documents (AFTO 349)	Errors	Rate (%)
January February March	1018 819 836	8 11 19 38	0. 8 1. 3 2. 3
Total	2673	30	

PART A. Cont'd

The overall documentation error rate is well within Air Force standards of 2.0%. The apparent upward trend was caused by one case of misnumbering an inspection package. It was determined to be a numerical transposition which will not likely recur.

MSgt Robert Cole was TDY to Randolph AFB, Texas, for 56 days to participate in writing a new 316XIJ specialty knowledge test.

#### **OPERATIONS**

A major problem in IMSOC technician manning developed. The situation has been relieved temporarily by the assignment of two electronics technicians.

Because of scheduled unit deactivation, the annual Missile Launch Officer training program has been discontinued.

On 10 January 1972, the ADC Tactical Teletype Network was reconfigured and expanded from four to fifteen circuits on the Eastern loop. The modification changed our Net Control Station from Hancock Field, New York, to Fort Lee, Virginia.

#### SUPPLY

The USAF Auditor General performed an audit (#1345-45) of the squadron during January. The examination consisted of a review of operating procedures and internal controls, and limited tests of accounting records in each of the squadron activities. It was found that procedures and controls were adequate and effectively applied.

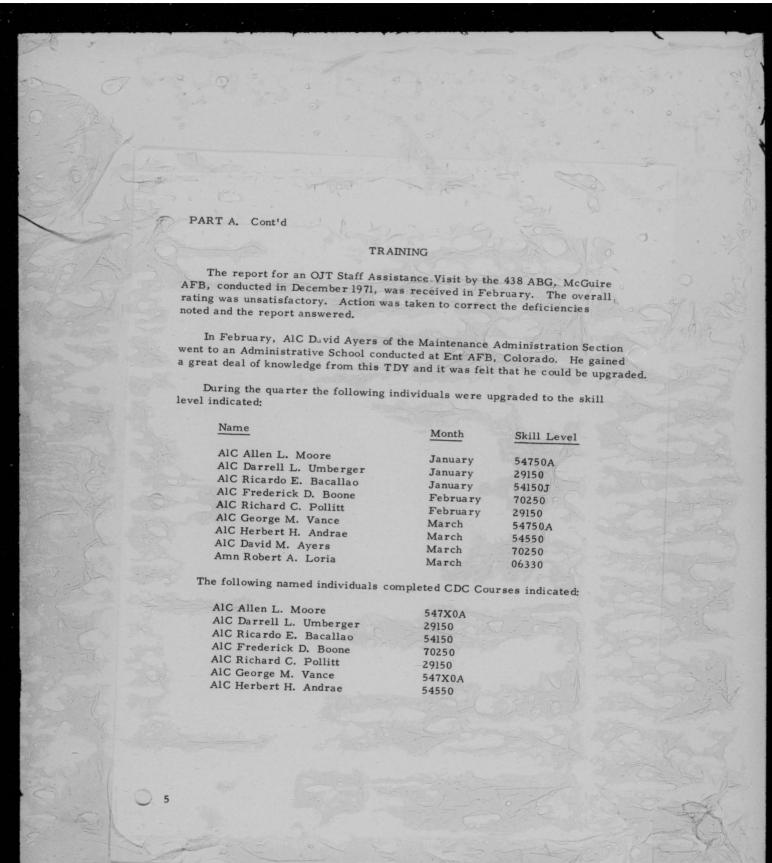
The Supply NORS rate taken from the RCS: HAF-S52 report is as follows: January - 1.35; February - .475; March - .46.

Squadron budget expenditures through 31 March amounted to \$158,000.00.

Supply received a Satisfactory rating from the 21 Air Division Staff Assistance Team. The Supply representative, Mr. Murphy, conducted a thorough review of the Supply activity.

Action is being taken to turn the Project 703 (Niagara) equipment in to salvage. A request has been sent to OOAMA for their permission.

4



PART B. Cont'd

The following personnel were promoted this quarter:

Michael Ciurczak to TSgt Larry A. Burchett to SSgt Brigitte Schilling to SSgt Terrence P. Westcott to Sgt George P. Mulry to Sgt

TSgt James Diven of the Operations Section was awarded \$325.00 for a military suggestion he submitted concerning frayed wires on critical operations equipment. His suggestion isolated the cause and suggested an economical solution that saved the Air Force approximately \$5,400.00.

#### KEY PERSONNEL

Lt Col Stephen M. Flanagan, Commander
Capt Robert F. Sherman, Chief of Maintenance
Capt Richard H. Roessler, Chief of Operations
Capt Gary W. Dooley, Administration Officer
Capt Albert Spencer, Safety Officer, Information Officer, Intelligence Officer
Capt John J. Rufle, Security Officer
lst Lt Ferdinand C. Haase, Disaster Preparedness Officer
2d Lt Michael Hartman, Civil Engineering Officer
SMSgt Paul W. Gorman, Supply Superintendent
MSgt Dale R. Blase, First Sergeant

#### ATHLETICS

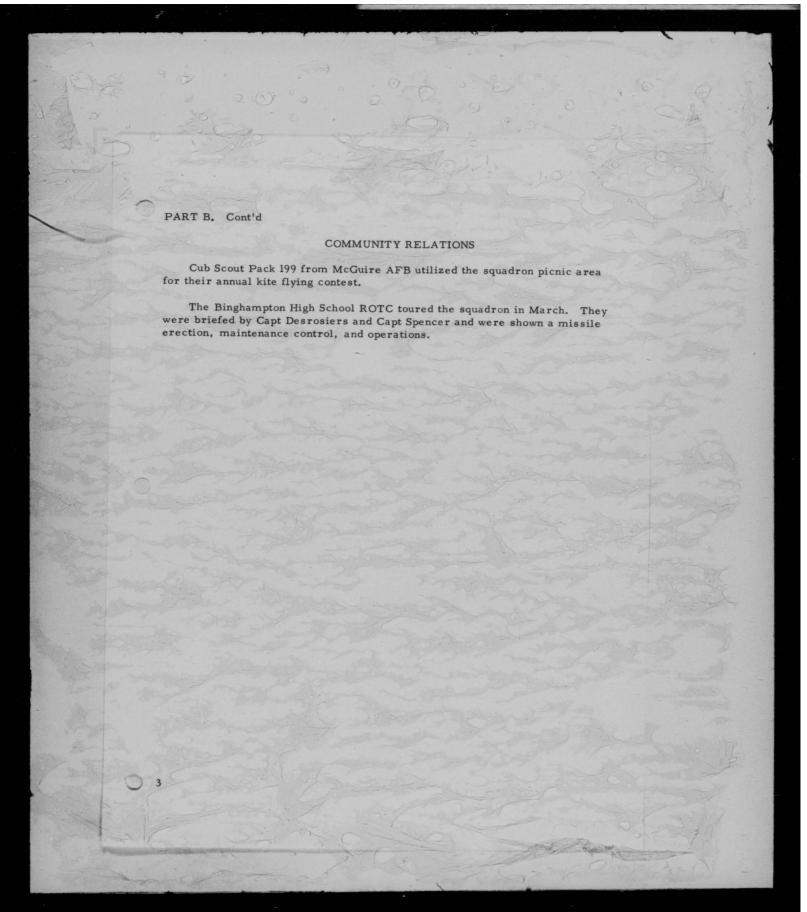
The Squadron Basketball Team participated in the 21st Air Division tournament and came in fourth. They won the league and base championships. The team was unbeaten in league play. In the playoffs for the base championships, they had to fight their way through the losers bracket.

Sgt Bradley Hill won the Base Pocket Billiard championship and went to McChord AFB to represent McGuire AFB in the MAC tournament.

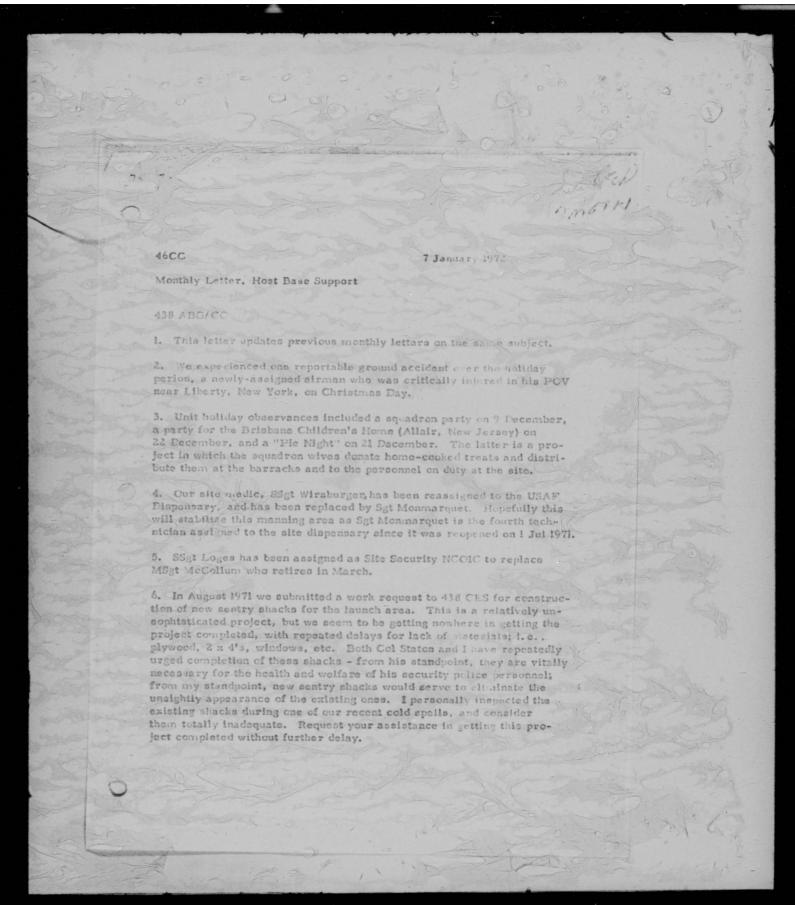
MSgt Anthony Deluise entered and won the base Ping Pong Championship.

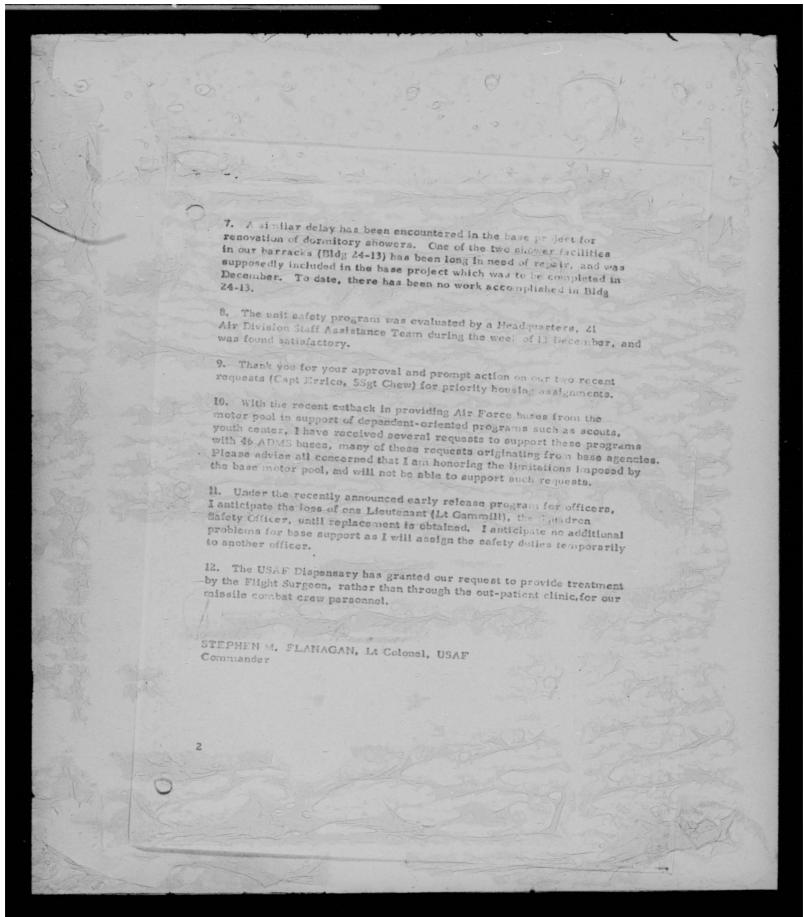
The squadron volleyball team was unbeaten and untied. In winning the league and base championship they were never challenged.

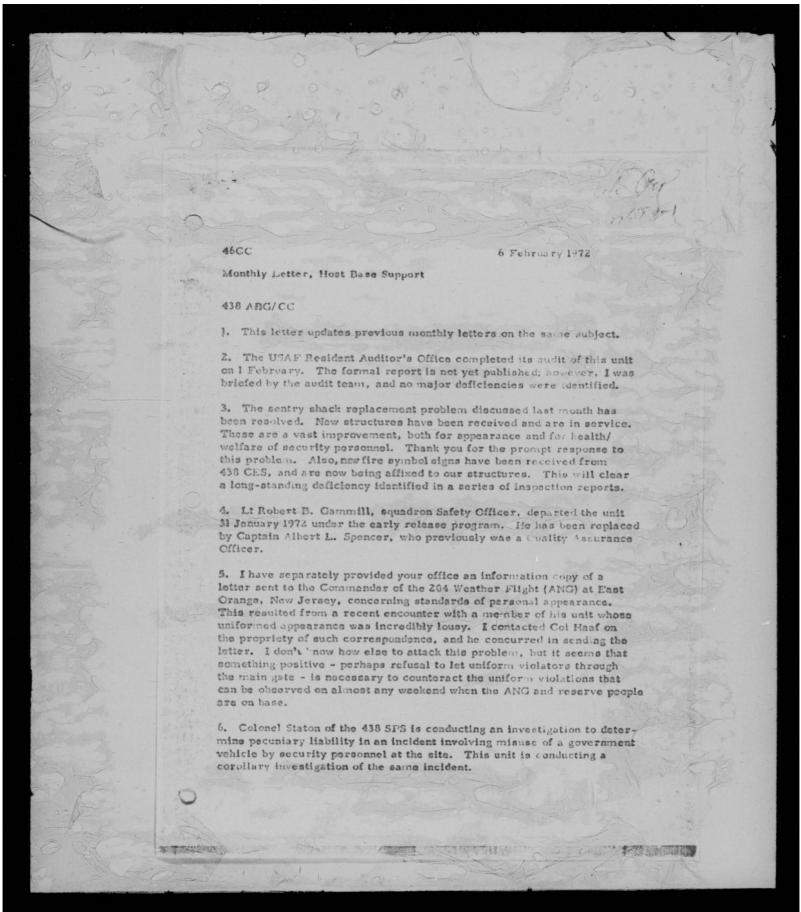
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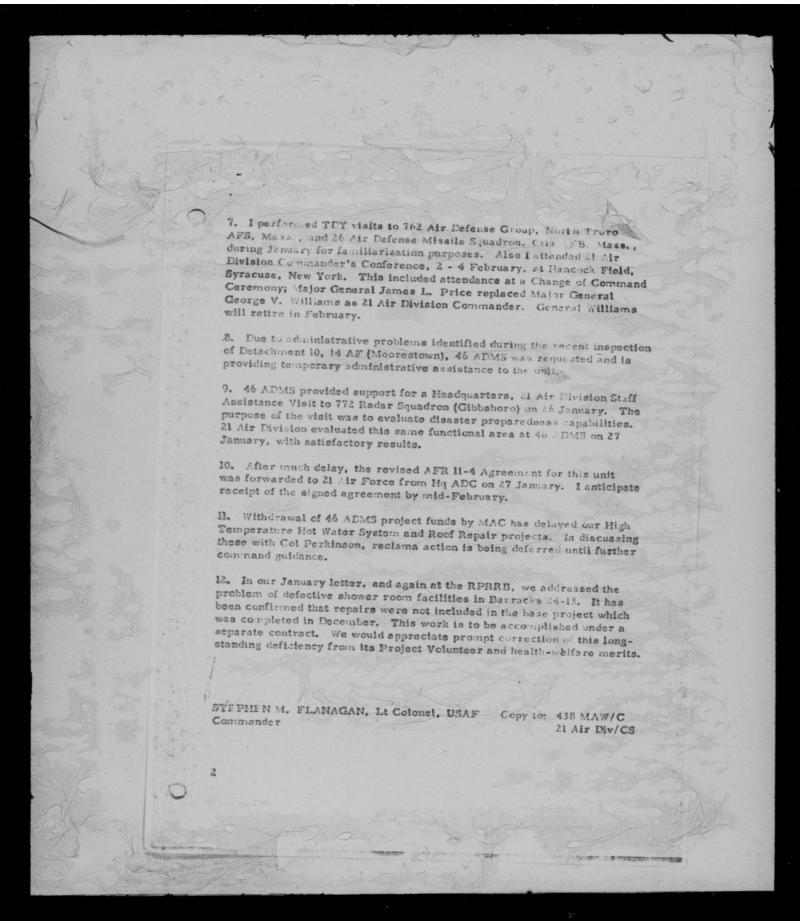


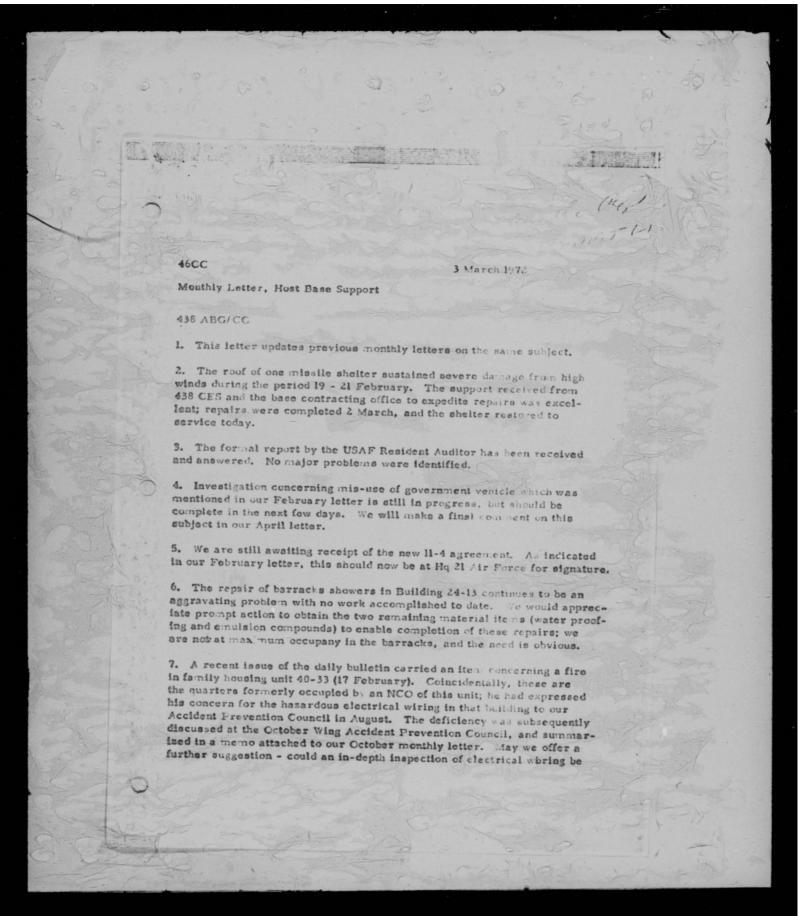
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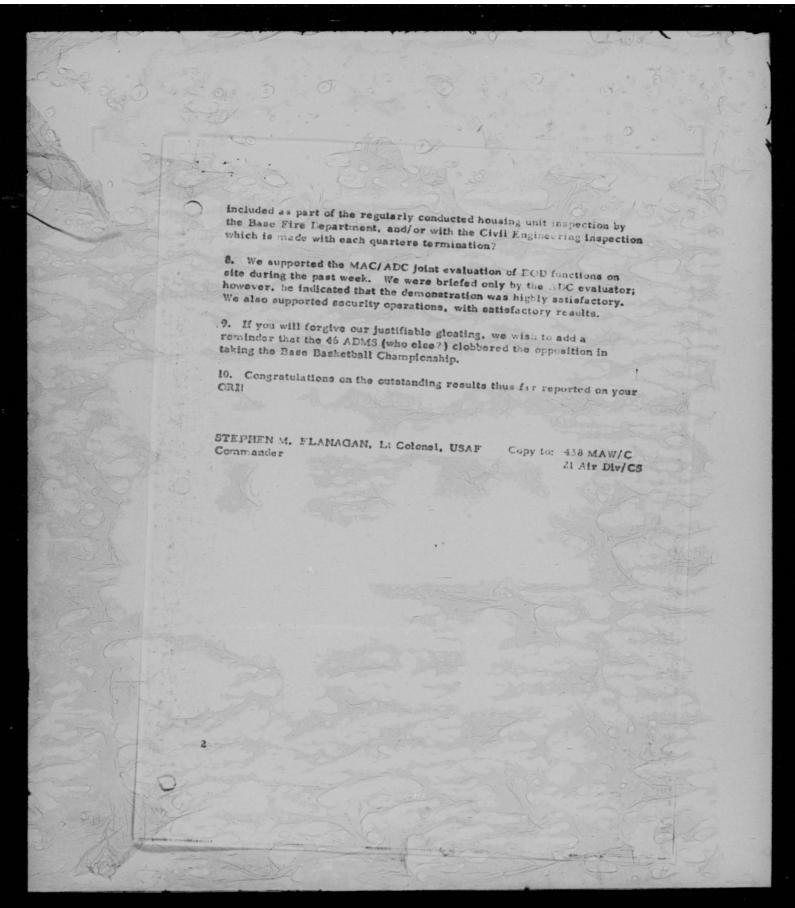




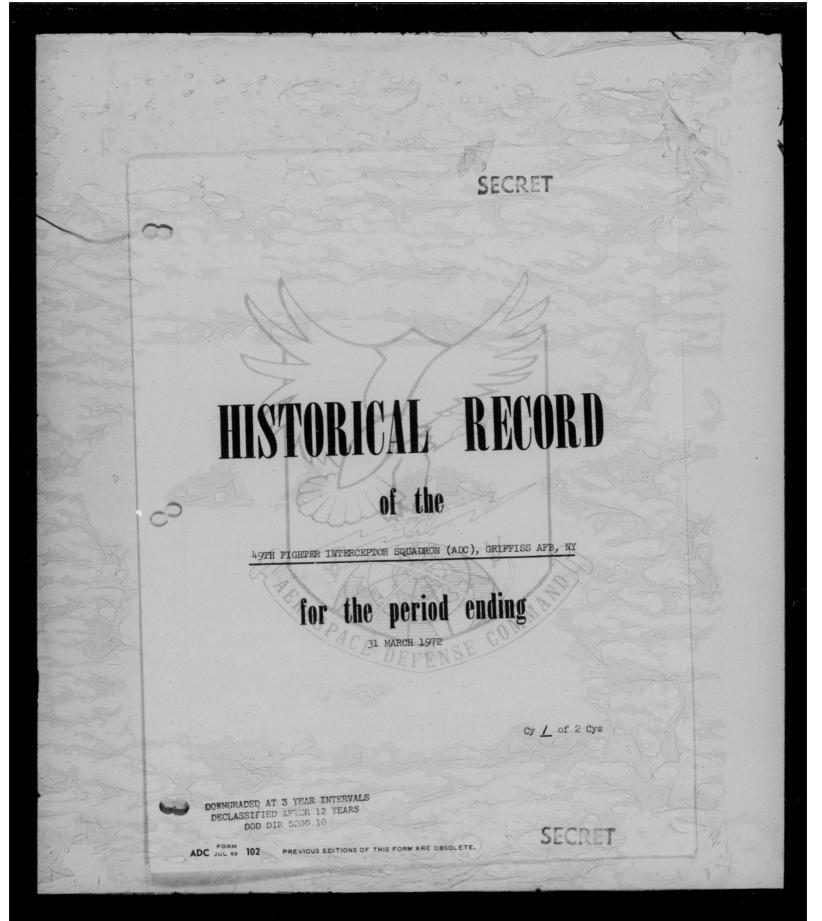


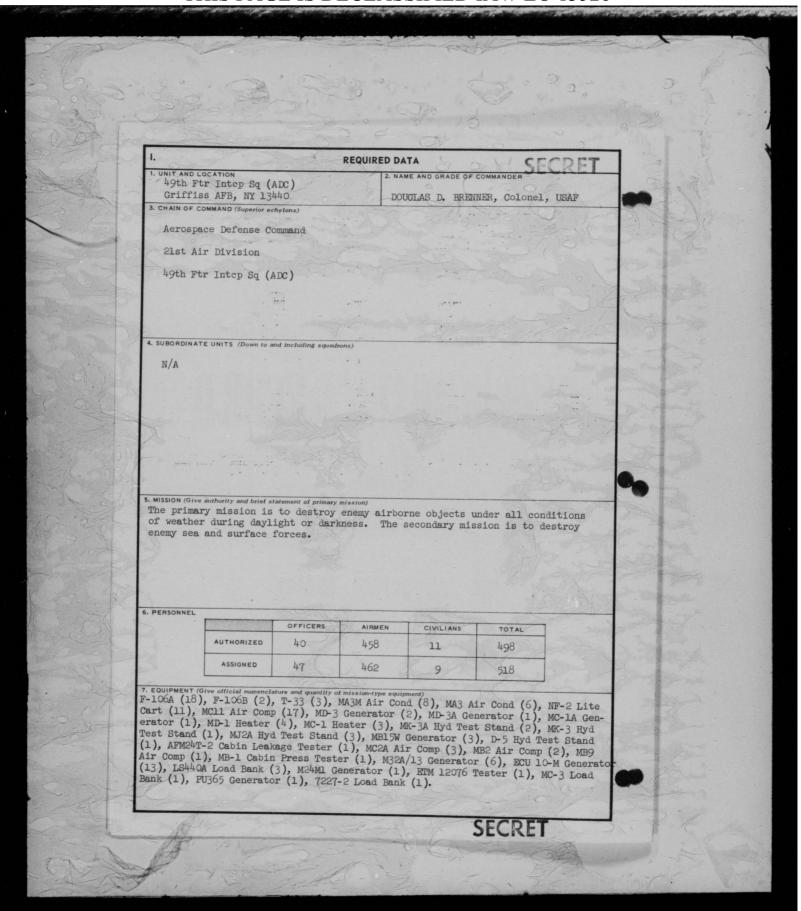


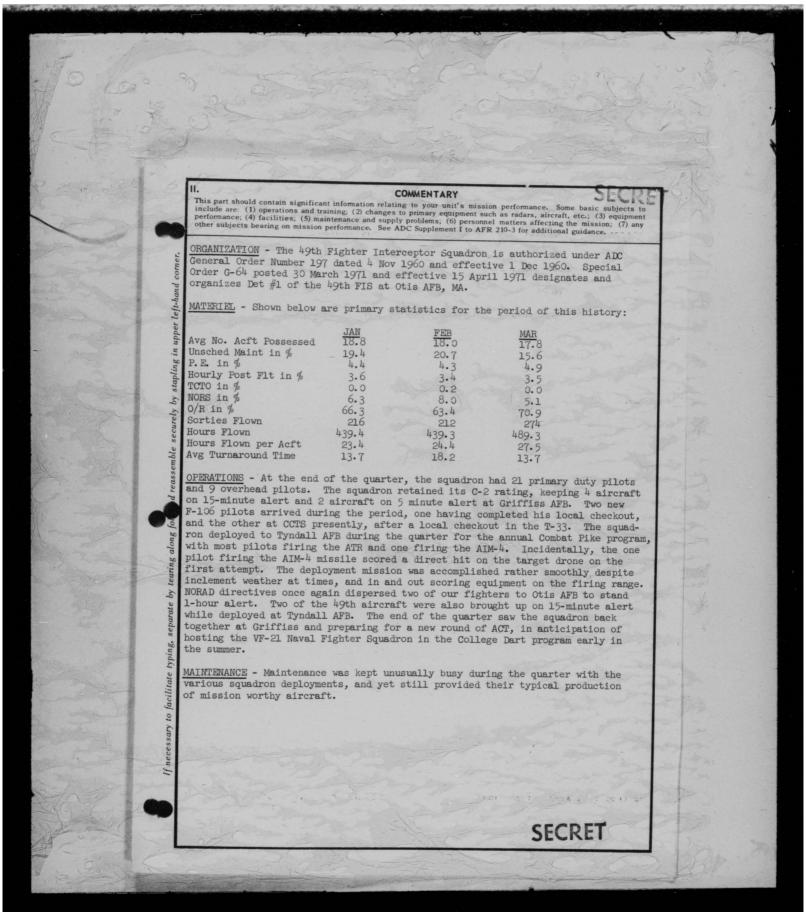


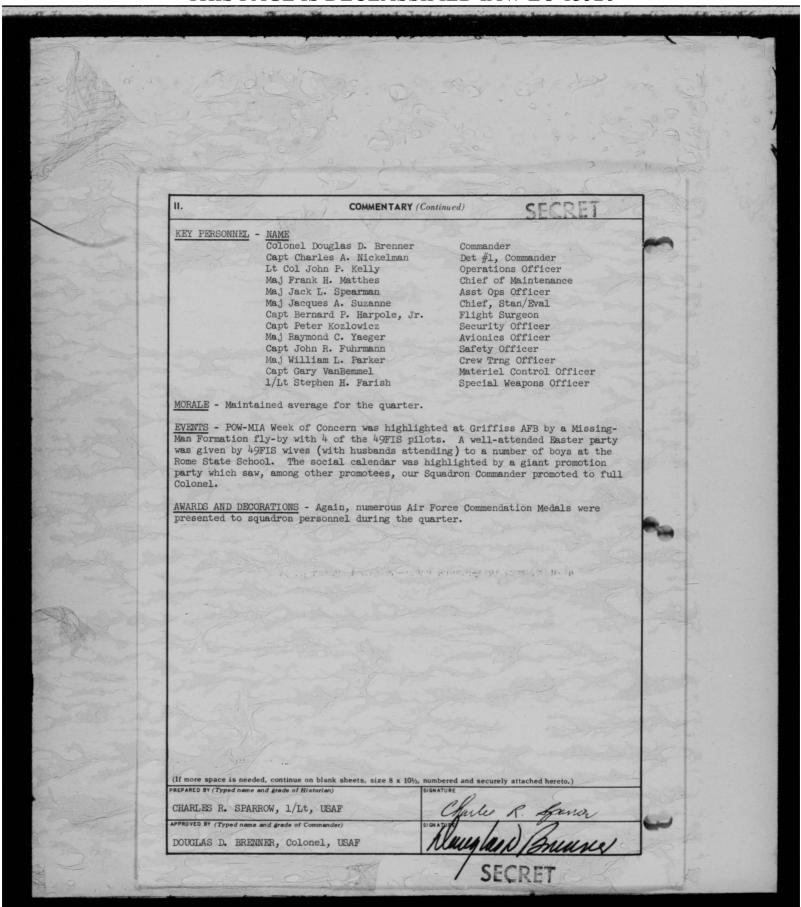


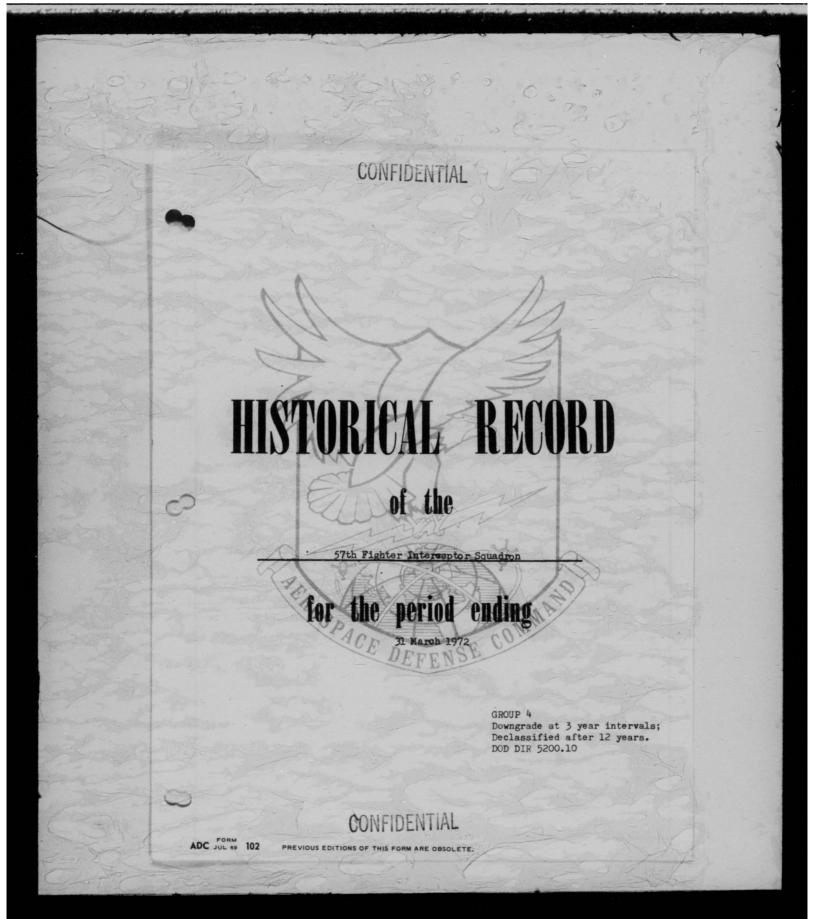
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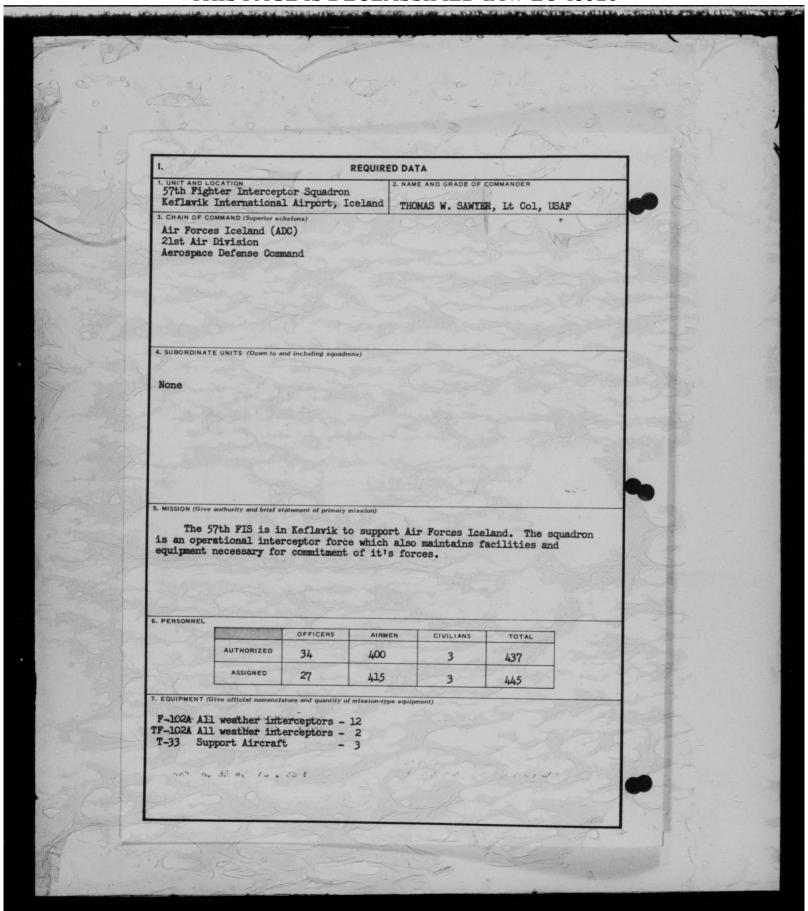












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### OPERATIONS AND TRAINING

(C) The quarter ending 31 Mar 72 was a busy one for alert pilots. 57th pilots launched 125 times on active air missions. 70 of these missions resulted in intercepts of Soviet aircraft. Besides the active airs normal daily training continued. Many practice intercepts were flown against other F-102 aircraft and ECM and chaff equipped T-33's. These practice intercepts were flown during both scheduled flying and Air Forces Iceland exercises.

(C) Hack rates for January, February and March were 86, 84 and 83%. Hours flown vs hours allocated are shown below:

	Allocated	January	Flown
F-102 T-33	335 75		283 70
		February	
	Allocated		Flown
F-102 · · · T-33	274 94		392 118
		March	
	Allocated.	-1	Flown
F-102 T-33	345 88	- edding of	309 68

(U) The weather generally improved during the last quarter. Cancellation rates have gone down some compared to the winter months. The cancellation rate for Jan was 43.8%, 22.6% for Feb and 41.0% for March.

### SAFETY

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- (U) The 57th, again last quarter, continued its excellent safety record. The most persistent and common problem was cut tires. The 57th experienced 26 cut tires last quarter. The wind blows so hard and so often that FOD is just about always a problem.
- (U) Another problem last quarter was six drag chute failures. Most of these were caused by allowing the chute to get wet while the aircraft was on the ground. Then once at altitude the chute would freeze, and then not work during landing. During the quarter the squadron had one precautionary landing and one ground aircraft incident. The incident involved and aircraft being run up for a test. The aircraft ingested a nylon strap and the engine had to be sent to the States for repair.

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#### AWARDS

(U) At a recent Commander's Call ten 57th FIS personnel were honored at an awards ceremony. Receiving Air Medals were Maj Raymond Kruckner, Maj Barton Lynn, Maj James Fullerton, Capt John Boles, Capt Lionel Boudreaux and Capt David Godsey. Receiving Air Force Commendation Medals were Capt Samuel D. Smith, MSgt Howard Dixon, TSgt Ronald Marcos, and SSgt Vern Jeffries.

#### PERSONNEL

(U) This last quarter was one of many personnel changes. Leaving were Lt Cols Joseph Smith and Carroll Cooley. Also leaving were Capts Donald Echleberger, Eugene Smigèlski and Ernie Uber a Hughes Technical Representative. Lt Col Smith, Lt Col Cooley and Capt Echleberger all three got assignments to Southeast Asia. Capt Smigelski received orders for Hamilton AFB, California. Six new officers arrived. They are Majs Harvey Dodge, and George Calkins, Capts Samuel Smith, John Maier, and David Sapsin. The 57th also welcomed Curt Miller a Hughes Technical Representative.

### MAINTENANCE AND SUPPLY

(C) Maj Dodge who came to the 57th from Richards Gebauer AFB has replaced Lt Col Smith as Chief of Maintenance. Good maintenance has continued as shown by the OR and NORS rates. For January the NORS rate was 0% and the OR rate was 75.1%. The NORS and OR rates for Feb were 2.0% and 71.4% and for Mar 0% and 78.7%. The great est problem seems to be with supply. If parts have to be shipped from the States. aircraft are sometimes down awaiting these parts.

#### 21ST AIR DIVISION INSPECTION

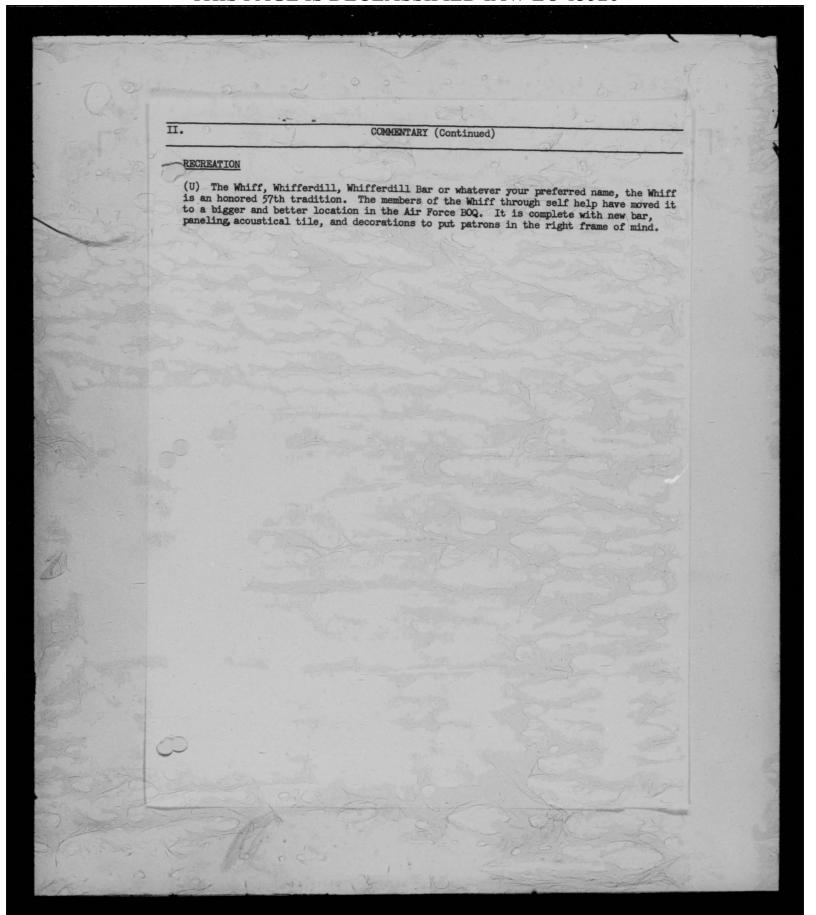
(U) During this last quarter 21st Air Division sent an inspection team to help the 57th prepare for future inspections; they inspected throughout operations and maintenance. The team turned in a report that made both the inspectors and especially the 57th happy. They found only one area that they felt was unsatis-

### COMBAT PIKE AND WILLIAM TELL

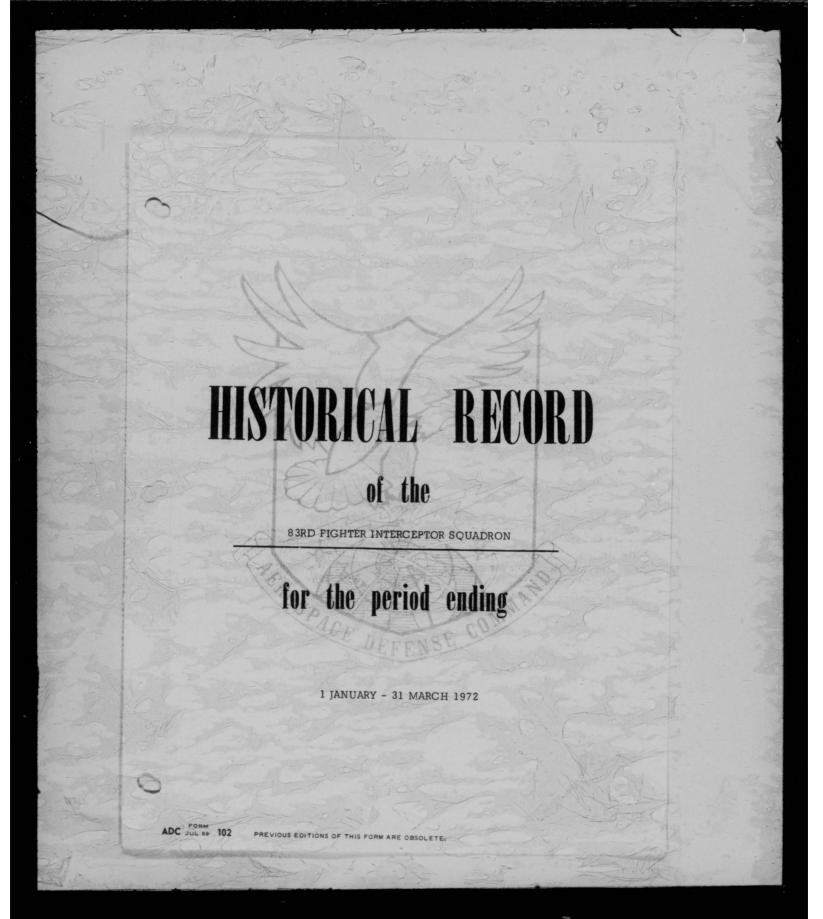
- (C) The 57th FIS has two important and interesting events to look forward to. Starting 11 June 72 and continuing through 3 Jul 72, the 57th will be at Tyndall AFB for Combat Pike, a firing deployment. Many squadron personnel will get a chance for an interesting TDY and a welcome break in Florida.
- (C) The second event is William Tell starting 18 Sep 72 and ending on 29 Sep 72. The 57th FIS is preparing for the meet now and is looking forward to the competition. This squadron has only one goal at William Tell and that is to come away

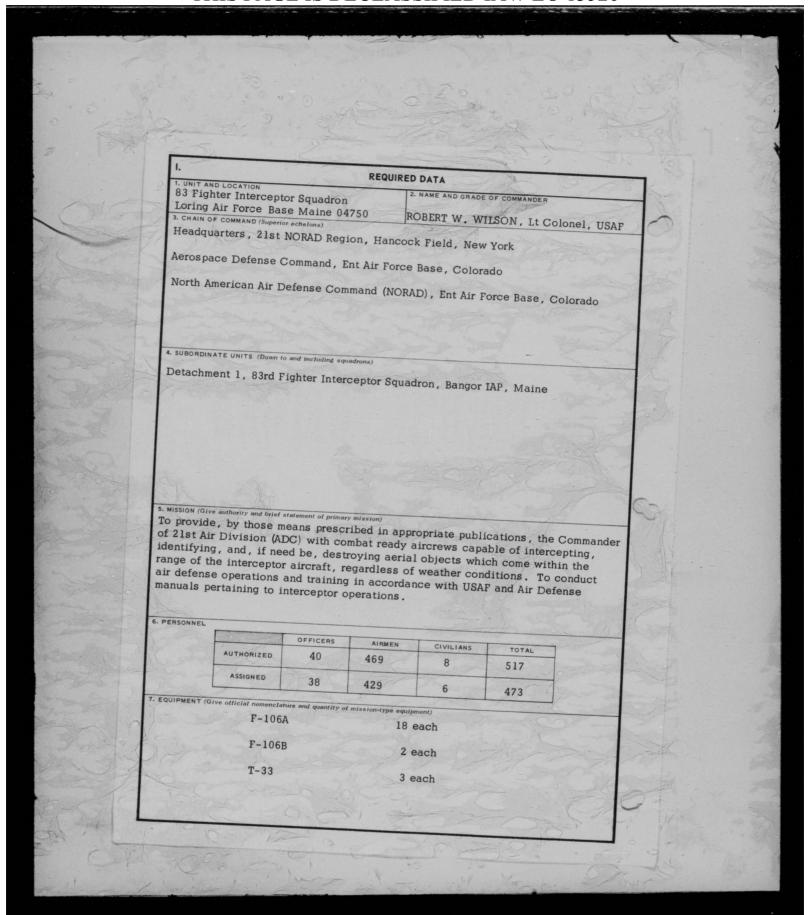
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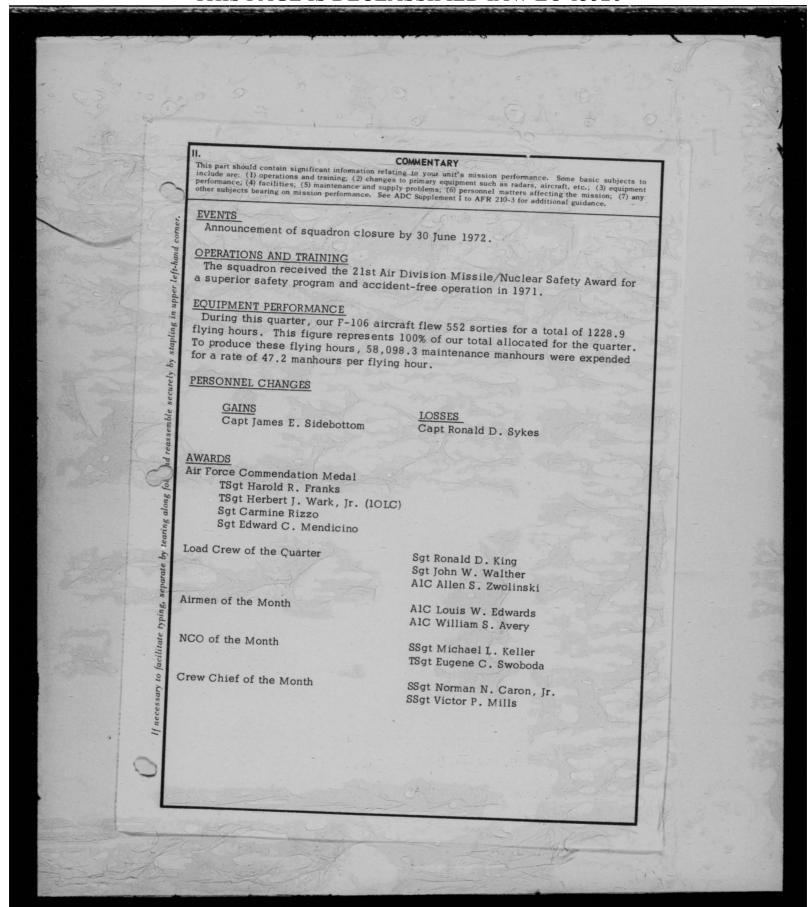
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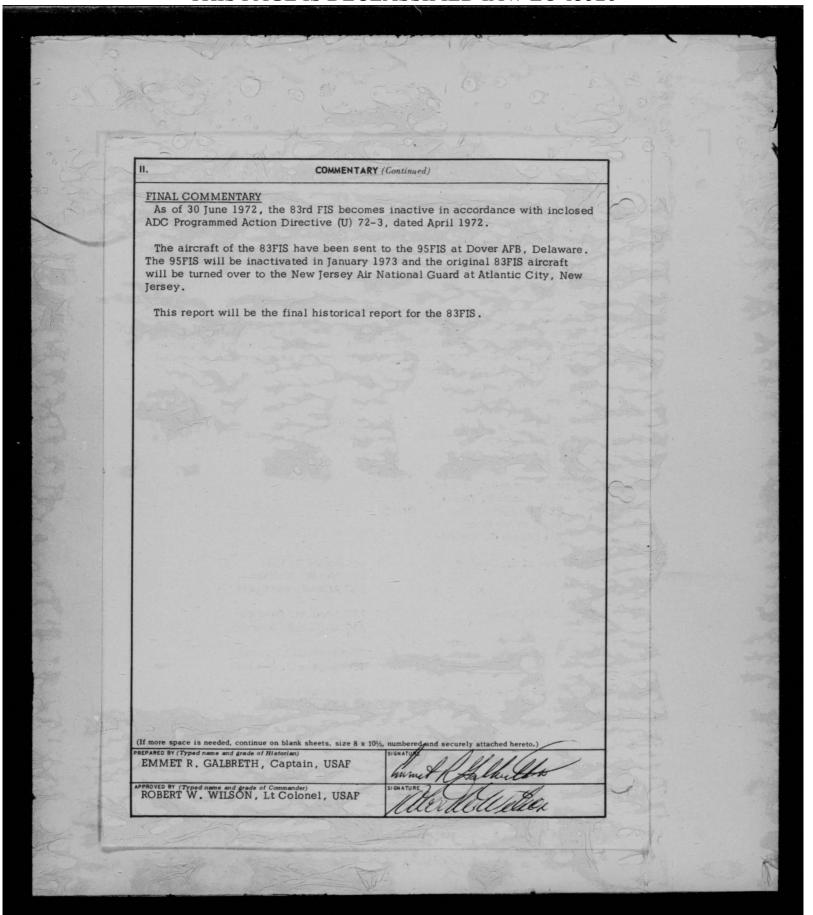


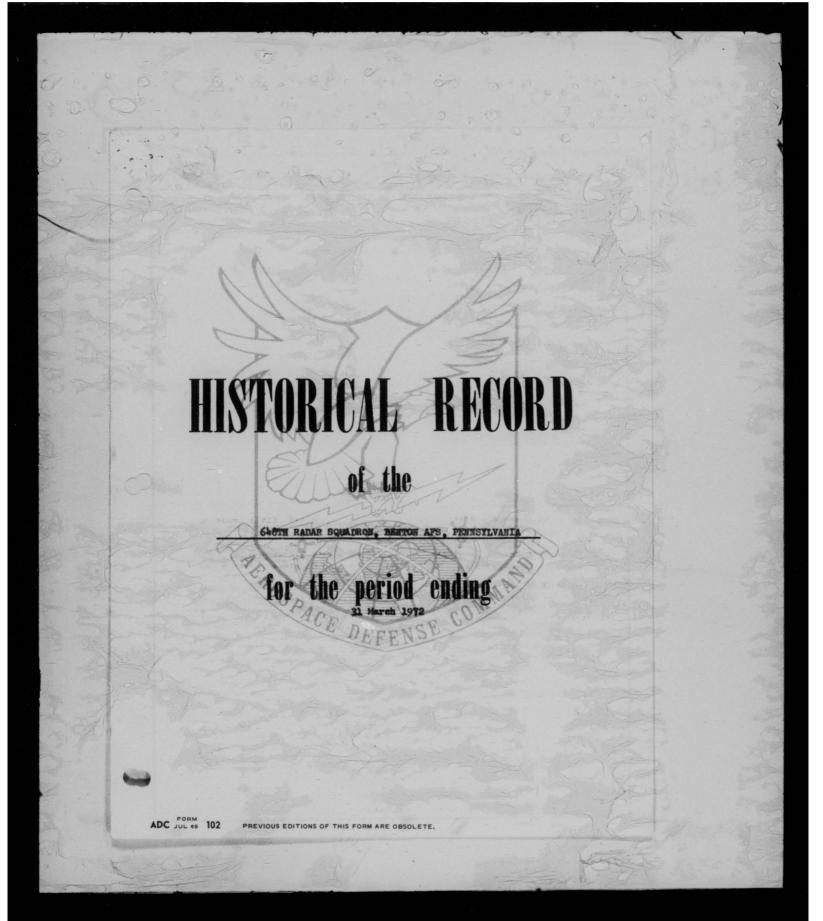
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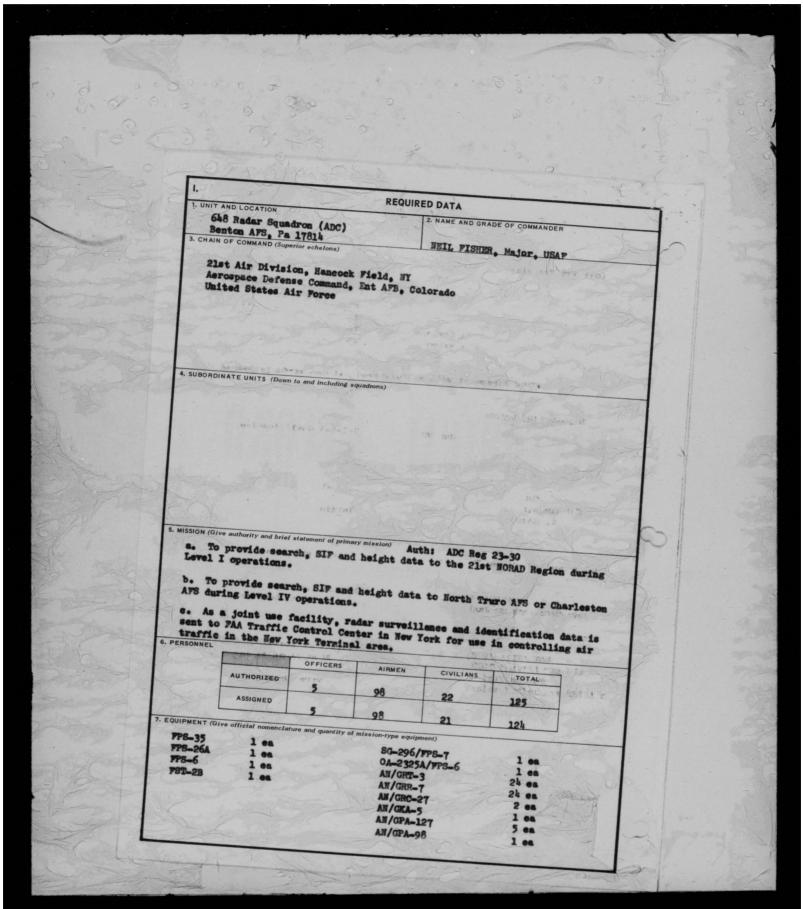




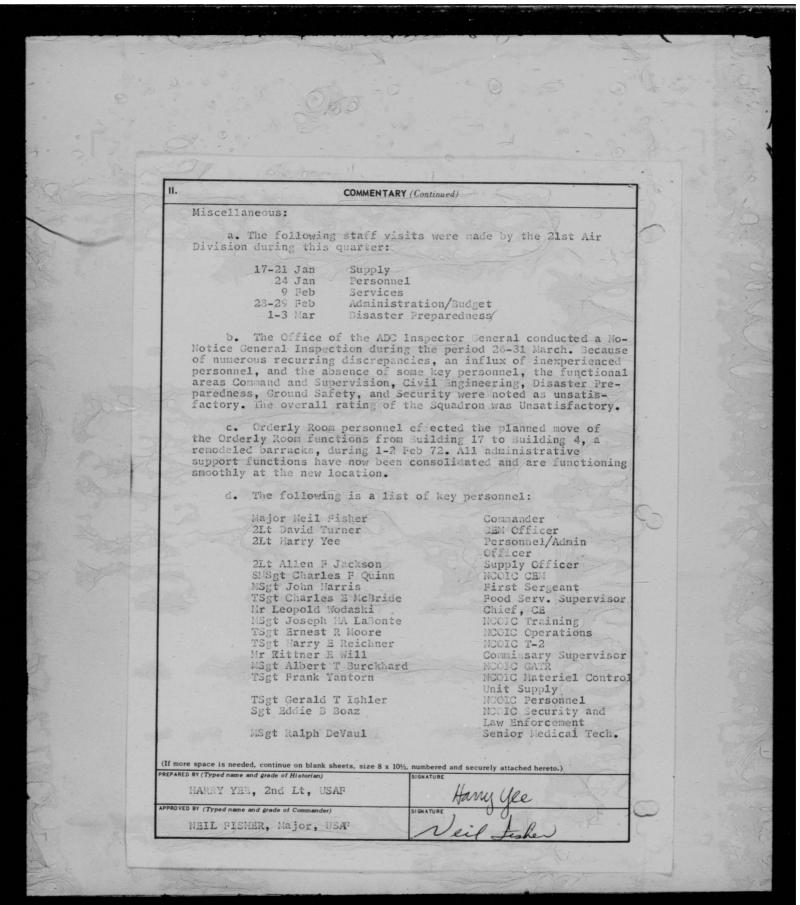


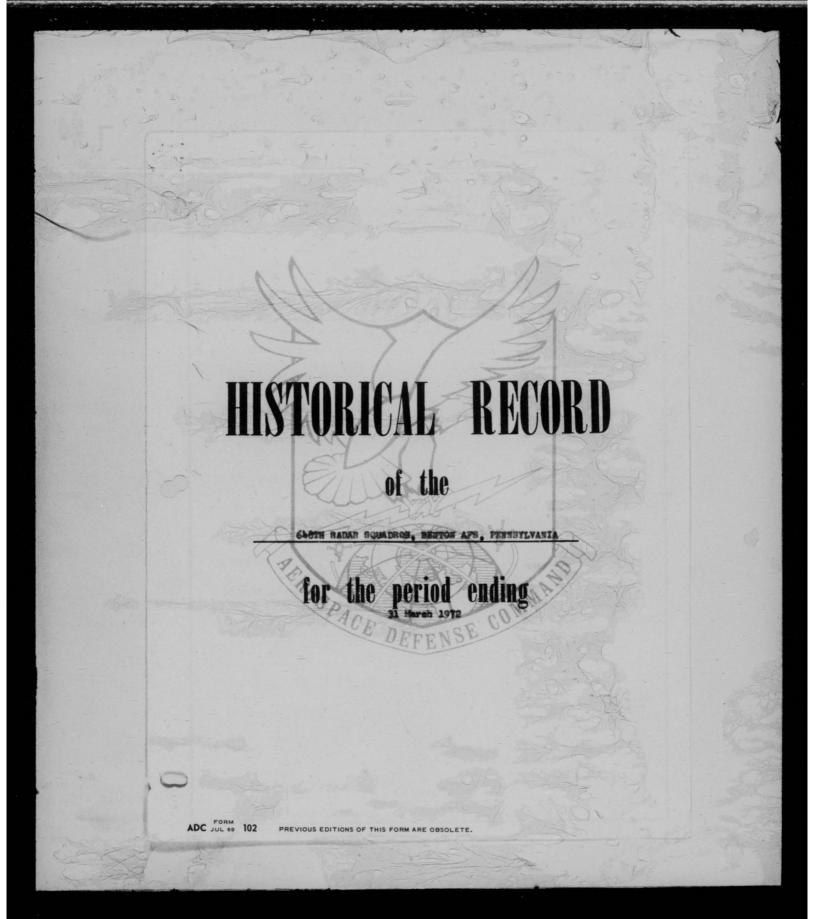


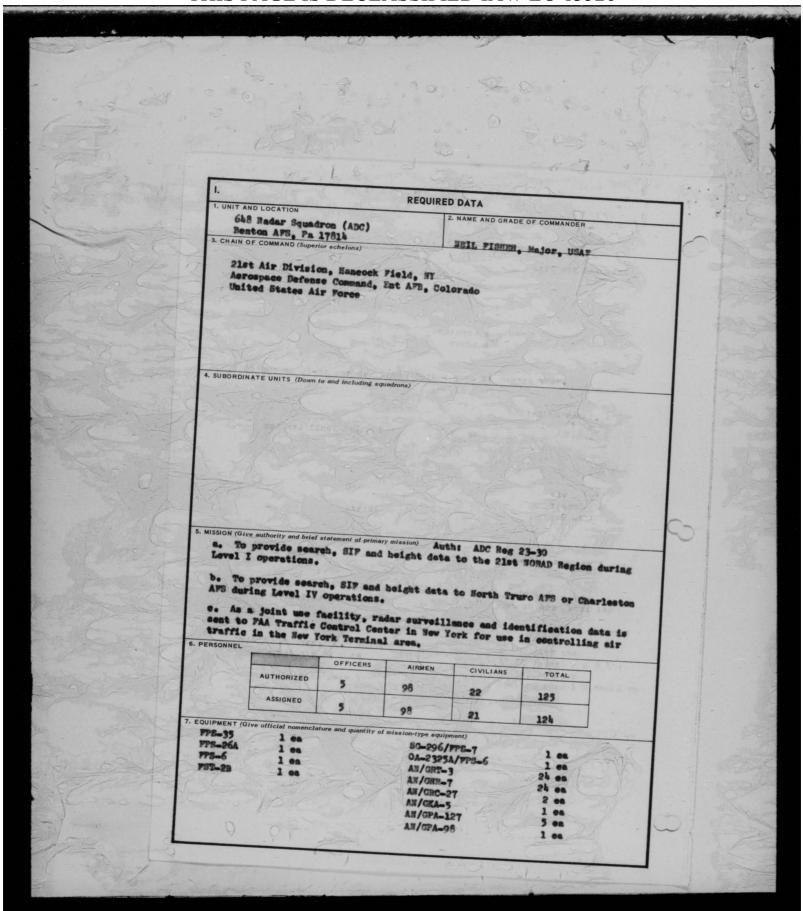




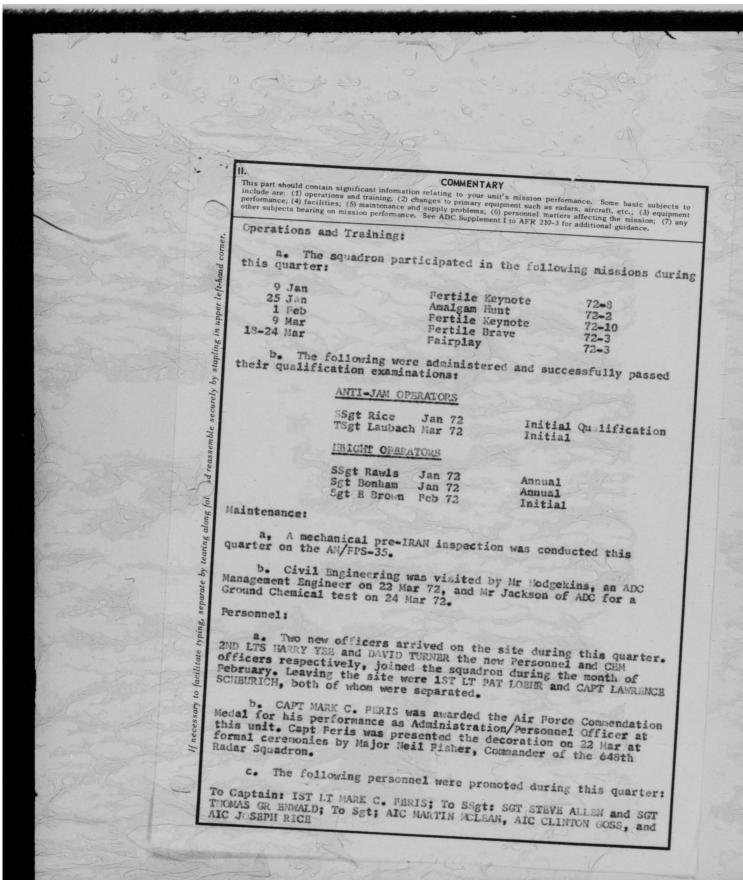
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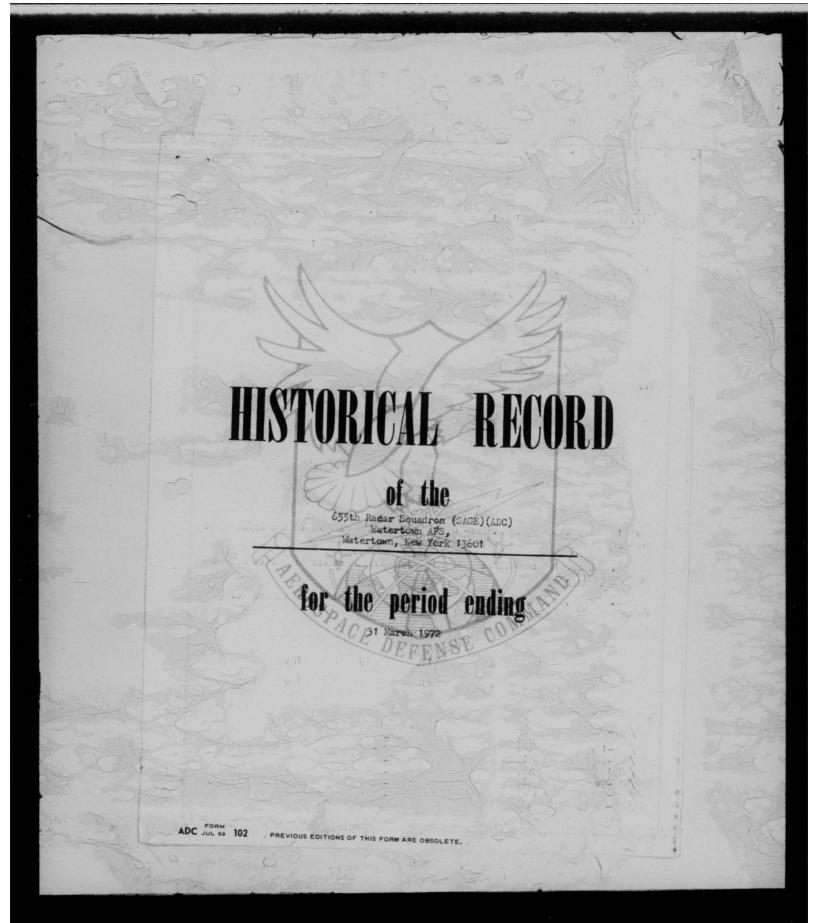


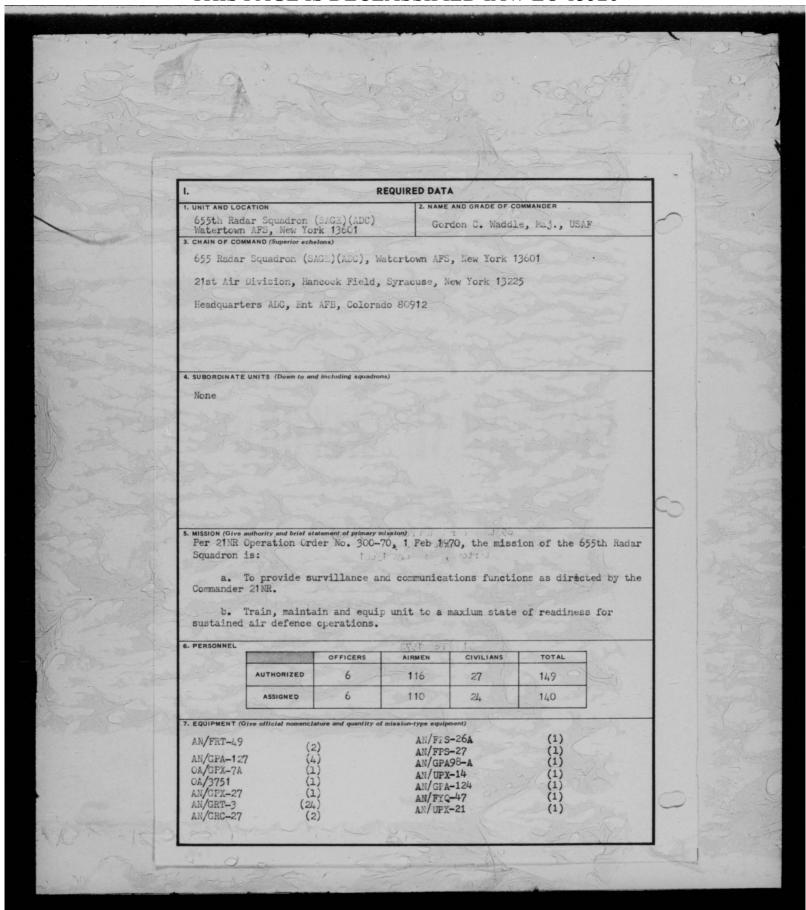


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### COMMENTARY (Continued) Miscellaneous: a. The following staff visits were made by the 21st Air Division during this quarter: 17-21 Jan Supply 24 Jan Personne1 9 Feb Services 28-29 Feb Administration/Budget 1-3 Mar Disaster Preparedness b. The Office of the ADC Inspector General conducted a No-Notice General Inspection during the period 26-31 March. Because of numerous recurring discrepancies, an influx of inexperienced personnel, and the absence of some key personnel, the functional areas Command and Supervision, Civil Engineering, Disaster Preparedness, Ground Safety, and Security were noted as unsatisfactory. The overall rating of the Squadron was Unsatisfactory. c. Orderly Room personnel effected the planned move of the Orderly Room functions from Building 17 to Building 4, a remodeled barracks, during 1-2 Feb 72. All administrative support functions have now been consolidated and are functioning smoothly at the new location. d. The following is a list of key personnel: Major Neil Fisher Commander 2Lt David Turner CEM Officer 2Lt Harry Yee Personnel/Admin Officer 2Lt Allen F Jackson Supply Officer SMSgt Charles F Quinn NGOIC CEM MSgt John Harris First Sergeant Food Serv. Supervisor Chief, CE NCOIC Training TSgt Charles E McBride Mr Leopold Wodaski MSgt Joseph HA LaBonte NCOIC Operations TSgt Ernest R Moore TSgt Harry E Reichner Mr Rittner E Will Commissary Supervisor NCOIC GATR NCOIC Materiel Control MSgt Albert T Burckhard TSgt Frank Yantorn Unit Supply MCOIC Personnel NCOIC Security and TSgt Gerald T Ishler Sgt Eddie B Boaz Law Enforcement MSgt Ralph DeVaul Senior Medical Tech. (If more space is needed, continue on blank sheets, size 8 x 10½, nu PREPARED BY (Typed name and grade of Historian) HARRY YEE, 2nd Lt. USAF APPROVED BY (Typed name and grade of Commander) NEIL FISHER, Major, USAF





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#### COMMENTARY (Continued)

install the Becam Data Moniter medification on the OA-1163. A wall was built outside the computer room to facilitate the proper storing of new test equipment and to make the section more secure.

- C. A FRE-IRAN was conducted on the AN/FPS-26 tower equipment on 24 Jan 72 thru 9 Feb 72. The inspection was conducted by the 485th E-I Squadron at Griffiss AFB, N.Y. The inspection revealed the need for an IRAN and it will be scheduled in the near future.
- D. The CDM complex received a Command visit from Col Glendon Dunaway, Vice Commander, 21st Air Division, on 16 March 1972. Col Dunaway was favorably impressed with the squadron.
- E. The klystron output cavity on the AN/FRT-49 at GATR arced during Feb 72 in both A and B channels. GATR personnel with the aid of the site dentist repaired both cavities at a savings of over \$3000.00 to the AF.

#### 7. COMMUNITY RELATIONS

- A. Several NCO's and airman in this squadron are active in local Boy Scout affairs. The squadron was visited by the Region II USAF Liais on Officer, Capt. McLaughlin, from McGuire AFB, N.J. Capt McLaughlin was briefed on the support provided by this squadron to the Jeff-Lewis Boy Scout Council, i.e. transportation, volunteers working with the council, attempts being made at organization of a special interest Explorer Fost and tours that have been conducted for the Scouts.
- B. The squadron has agreed to sponsor a special interest Explorer Post for area youths interested in electronics. The stipulation was made that the Explorer Advisor not be a military member because of the rapid turnover of military personnel and resultant instability in the leadership of the Post Contacts have been made with several potential advisors but none have accepted the post as of this date.

### 8. MORAIE/RECREATION

- A. Special Services reports that in January ten YMCA passes were purchased through Unit Fund for use by all squadron personnel assigned. A tape recording studio was opened on the 10th of February and participation has been very favorable.
- B. On 18 Feb 72 the theater operation was moved from the Special Services building to the NCO Club. Theater attendance all time high for this squadron was set in March when 51 people attended one program. Frior to this switch average attendance at theater programs was 8.6.
- C. March sported another first for the squadron when a ski meet was held with the 655th vs. Camp Drum at the Dry Hill Ski Area. The 655th came in second but a good time was had by all.

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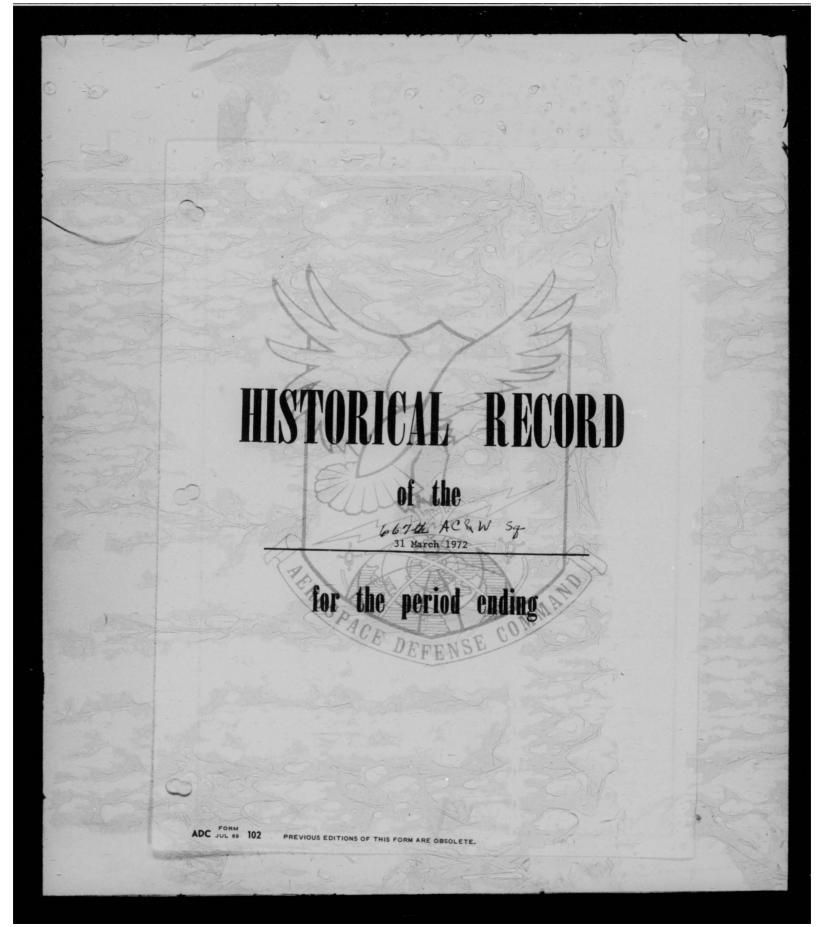
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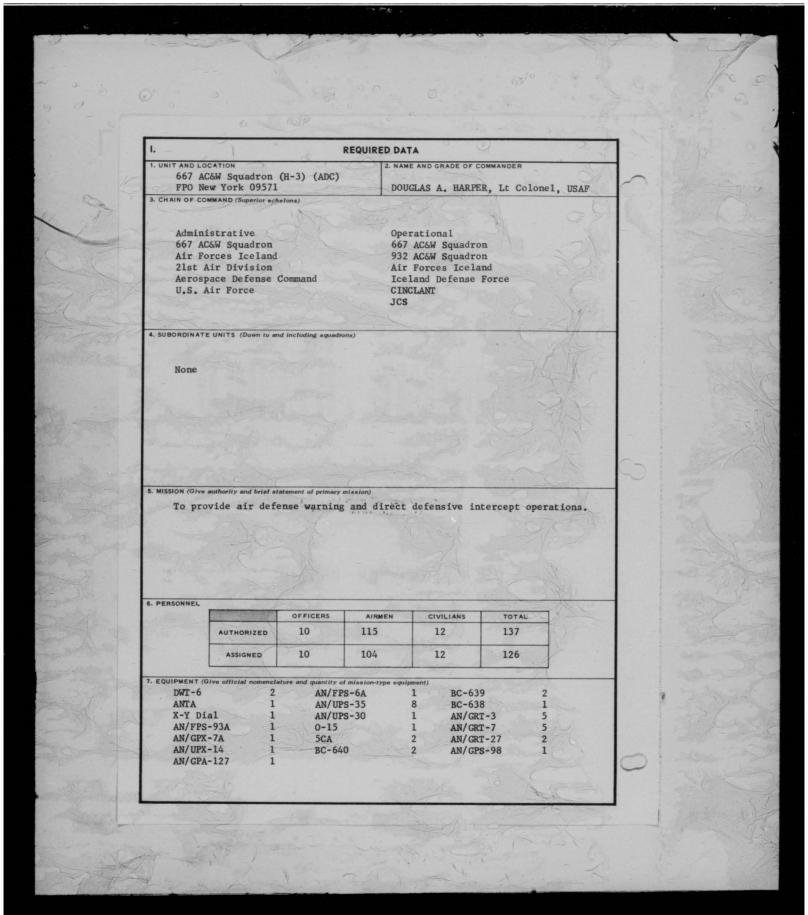
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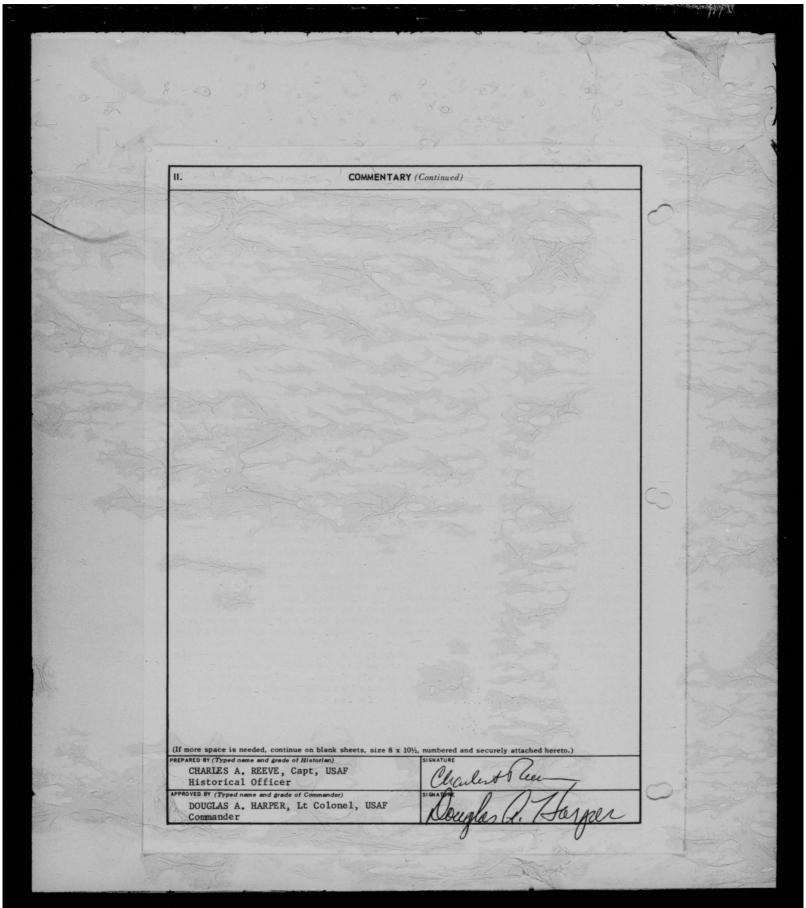
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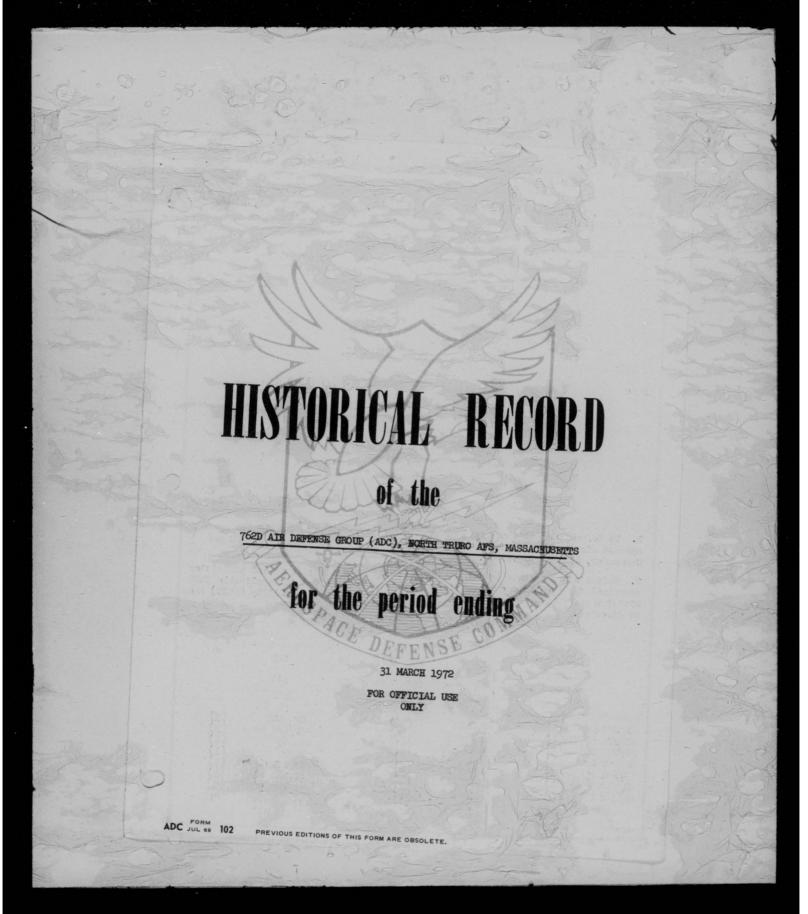
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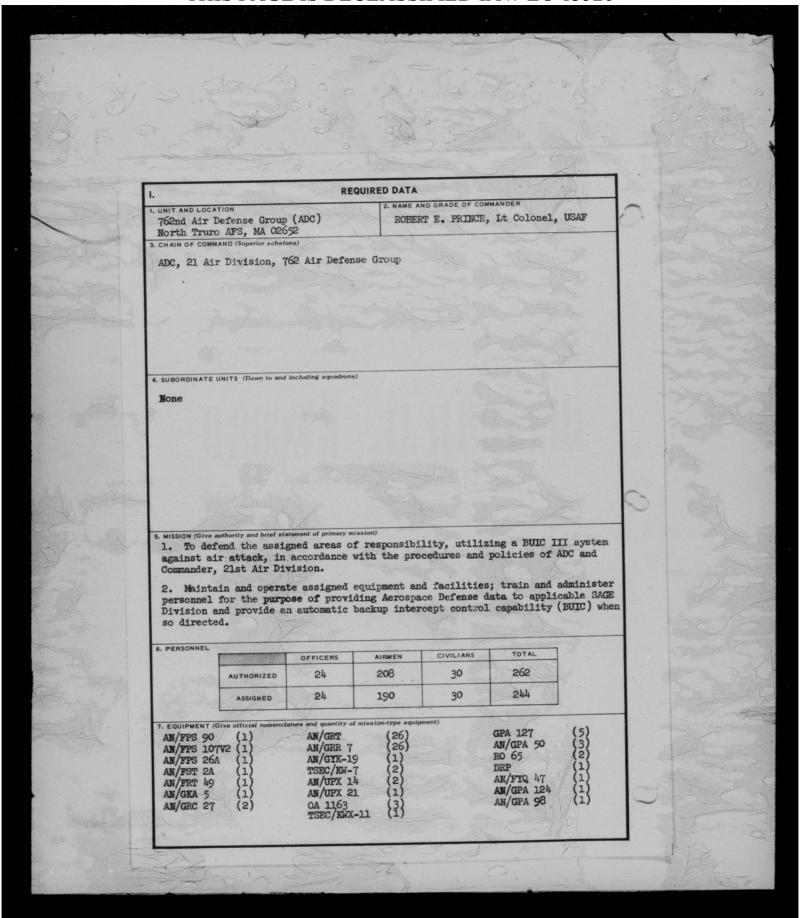




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### COMMENTARY

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#### COMMAND SECTION

In February the 762nd Air Defense Group witnessed a change of command at the division level, as Major General Price replaced the retiring Major General Williams. General Williams made a farewell visit to the station in January. Concurrent with this visit Colonel Dunaway, incoming 21st Air Division Vice Commander, undertook an orientation visit.

Other distinguished visitors during this quarter were General Haynes, ADC Vice Commander; Colonel Armstrong, ADC DCS/CE; Major Jackson, ADC Social Relations Problems Officer; and Captain Rock, ADC JOC Advisor. Captain Rock met with Lieutenants Laing and Perkins to discuss various aspects involved in establishing a Junior Officers Council.

SMSgt Farino, Hq ADC Conducted a test security visit on 27 January. Mr Karnegy, also from ADC, visited in March to conduct an explosive safety inspection.

The station Commander, Colonel Prince, attended a 21st Region Conference during February. His Executive Officer, Major Mello, attended the Disaster Preparedness Course for senior staff members at Lowry AFB, Colorado from 28 February to

Chaplain Haley was on the site for two weeks during the quarter. ADC Chaplain Boardman visited the station on 24 March.

Sergeants Clauser and Brukelmeyer participated in the Career Motivation and Air Force Activity Orientation Program at Homestead AFB, Florida during February.

#### **OPERATIONS**

Operation personnel spent much time in preparation for Freddie H. Smith competition. The numerous simulated exercises were geared toward this competition, which is used to rate the best BNCC in ADC. Although the computer was down for three weeks in February, this time was utilized for numerous cross-training trips and academic training.

In January no live exercises occurred, while the simulated exercises Amalgam Hunt 72-2 and Fertile Magic 72-1 through 5 were conducted. One live exercise, Fertile Keynote 72-10, and four simulated, Fertile Magic 72-6 through 9 took place in February. The live exercise Fertile Brave 72-3 occurred during March. Simulated exercises for this month included Amalgam Fairplay 72-3; Fertile Magic 72-9A, 10, 11 and 12; and finally the Freddie Smith Competition.

The Operations Section made an outstanding showing in the Freddie Smith Competition as evidenced by its overall average score of 94.29 on academic testing, and its good "Kill" rate. Final results are pending validation by Hq ADC.

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# COMMENTARY (Continued)

# OPERATIONS (CONTINUED)

Personnel gains for the quarter were three officers and five enlisted men; losses were three officers and four enlisted men. Upgradings to qualified occurred as follows: Four officers to Weapons Director, one to RICMO, and one to Target Monitor; two enlisted men to HRIO, one to WDT, and one to IDOPER.

The following TDY's occurred: Two officers to BUIC School at Keesler AFB, Mississippi; four to BOMARC School at Tyndall AFB, Florida; five enlisted men to BOMARC School; one to BMEWS School at Keesler AFB, three officers to the 132nd FIS at Bangor, Maine and to the Charleston BNCC. In addition, most of the Operations Section went TDY on cross-training trips to the 49th FIS at Griffiss AFB, New York; to the SAGE Center at Hancock Field, New York; and to the 26th Air Defense Missile Squadron, Otis AFB, Massachusetts. Selected Weapons personnel also visited the 24th Artillery Group, Coventry, Rhode Island as well as the Boston ARTCC facility at Nashua, New Hampshire.

A classification and testing team from the 21st Air Division paid a staff assistance visit to the training office to analyze records and testing functions.

At the conclusion of the quarter Major Richard Cox, Chief of the Operations Section left PCS on an assignment to Rome, Italy. Captain Fredric B. Pickford assumed

# OFFICE OF PROGRAM MAINTENANCE

The Office of Program Maintenance continued to provide outstanding support to Operations throughout the quarter by effectively responding to reported problems, implementing environmental data changes, and maintaining all BUIC III systems software packages, including the Freddie H. Smith, Jr. Competition tapes.

Several office improvement projects were initiated during the quarter.

- a. The programmer training program was completely reorganized. All training tests were revised to improve their quality, and an automated test generator was established.
- b. All Division geography was reviewed for accuracy, and additional points were inserted to close gaps in vectors displayed in the X8 expansion mode. A new geography master was constructed in the office using Operational Navigation Charts to provide a more effective tool for processing and analyzing geography change
- c. A new management tool was developed to more effectively monitor the status and insure proper processing of Documentation Requests/Changes, Clarification Requests, and Analysis Reports.

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RICHARD DAMMER, 1st Lt

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R.E. PRINCE, Lt Colonel

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# OFFICE OF PROGRAM MAINTENANCE (Continued)

d. A complete review of OOI's was initiated in February. By the end of the quarter, eight OOI's had been rewritten, one was deleted, and one was approved with no changes.

Programming duty assignments were realigned during the quarter due to receipt of PCS assignments for two programmers. A manning assistance request was initiated to preclude a 67% manning situation, however, no relief was obtained by the end of the quarter.

### CEM MAINTENANCE

Maintenance notes of interest for the quarter are as follows:

- a. The Pre-Iran of the AN/FRT-49 and the AN/GKA-5 was completed by members of the 1829 Engineering Installation Squadron on 17 Jan 72.
- b. The following Time Compliance Technical Orders were completed on the
- (1) TCTO 31S5-2GSA51-519, redesignates the AN/GSA-51A to the
- (2) TCTO 31S5-2GSA51-513, provides for an overide of data display
- c. The Air Conditioning System for BUIC was expanded and work accomplished during Feb-Mar 72. Final system checkout is scheduled for May 1972.
- d. The mechnical Iran of the AN/FPS-90 was completed by member of the 1829 Engineering Installation Squadron on 10 Mar 72.
- e. The AN/FPS-7 Radar was modified to an AN/FPS-107V2. The inflatiable radome was replaced with a Rigid Radome during the same period.
- f. Feeder number one was rewired and split to accommodate the BUIC air conditioning. Since this rehab we have experienced 21 power failures on the AN/GYK-19 Mainframe and Processor.

CFM gained 9 enlisted men and lost 10 during the past quarter.

### PERSONNEL/ADMINISTRATION

A heavy turnover of personnel occurred on this station with twenty-four arrivals and forty-five departures during this period. The manning situation did not look favorable at the conclusion of the quarter, and several sections had to request manning assistance.

### PERSONNEL/ADMINISTRATION (Continued)

Civilian personnel from Otis AFB conducted a management and civilian personnel record review in March. A meeting with civilian supervisors was held and the supervisory appraisal system was explained.

Three enlisted men retired and ten men reenlisted, one a first term airman.

#### CIVIL ENGINEERS

The Civil Engineer Section is authorized sixteen civilians and seventeen military personnel. At present we are down one (1) AFSC 543XX. During February Civil Engineers from the 21st Air Division paid a Staff Assistance Visit to this section.

During this period the following major maintenance work has been completed:

- a. Installed new shower and repaired flooring facility #16.
- b. Repaired by replacement hot water heaters in the following facilities: GATR #2, #29, #34, #108 and #204.
  - c. Repaired shower fixtures in facilities #12, #38, & #39.
- d. Repaired by replacement high pressure steam safety relief valve, Central Heating Plant, #19.
  - e. Repaired by replacement storage shed for facility #104.
  - f. Repaired by replacement latrine fixtures facility #T-5, NCO Club.
  - g. Major repairs were completed to primary electrical feeders #1 & #4.
- h. Maintenance was completed on all electrical switches, circuit breakers and motor controls for facilities #29 and GATR.

Four (4) 0&M projects have been completed by contract:

- a. Repaired BUIC III air conditioning.
- b. Repaired electrical feeder to BUIC III air conditioning system.
- c. Maintenance underground primary distribution system.
- d. Paint interior facility #31 Power Plant.

O&M Contract still under construction: Repair family housing unit, facility #205 - 85% completed.

CIVIL ENGINEERS (Continued)

Power Plant report is as follows:

Total engine hours operated
Total power produced
Diesel plant cost - labor and parts
Diesel fuel consumed
Diesel fuel cost
Lube oil cost
Total plant operating cost
Diesel power cost per kwh
Commercial power purchased
Commercial power cost
Commercial power cost per kwh

5463 1,367,000 kwh \$24,722.13 101,400 gal \$12,168.00 \$813.00 \$38,461.80 .02813¢ 1,058,300 kwh \$21,569.97 .02038¢

Power Plant operation for the quarter:

- a. January: All engines excluding #7 continued to have oil sludging problems. The #6 engine bedplate was found out of alignment; this was corrected by retorquing and shimming the bedplate. Number 1 and 2 radiators were sent to contract maintenance for repairs.
- b. February: The oil problem mentioned above continued, although slight improvement was obtained by repeated filter changes and by switching to a different manufacturer of 9000f oil. CEMIRT replaced main bearings and rear oil seal in engine #4. The plant was secured for ten days during which all circuit breakers were removed, checked, cleaned and tested by CEMIRT and plant personnel. The #2 engine 8,000 hour inspection was completed during the scheduled outage, however, a leaky liner was discovered the 18th of Feb. The liner was removed, seals replaced and re-installed. Oil analysis failed to show glycol in the oil before and after the liner and oil changes were done. The radiators sent to contract maintenance were beyond economical repair so the cores were replaced. Both radiators were received and re-installed.
- c. March: The oil problem continued, although slight progress also continued. Filter life has increased to approximately 500 hours depending on particular engine conditions. The #1 engine had a new pedestal bearing and slip rings installed. A front end overhaul of #1 is also in progress. An 8000 hour inspection is in progress on #7 engine. The #1 engine's alternator was cleaned completely by site personnel. The alternator had a deep scratch in the stator windings, which was repaired with several coats of spray glyptol.

### STATION SUPPORT

The four day work week continued to be implemented and results looked favorable. Project Better Living progressed with the installation of carpeting in the barracks, leaving only the BOQ to be completed. The civil engineer's bench stock was completely rearranged and revalidated during this period.

In March Lieutenant Spicer attended a Supply Convention at Lowry AFB,

A cross-training and self-study program was instituted to improve the quality of support and material control. Although this section continued to function undermanned, no degradation in station support occurred.

#### DISPENSARY

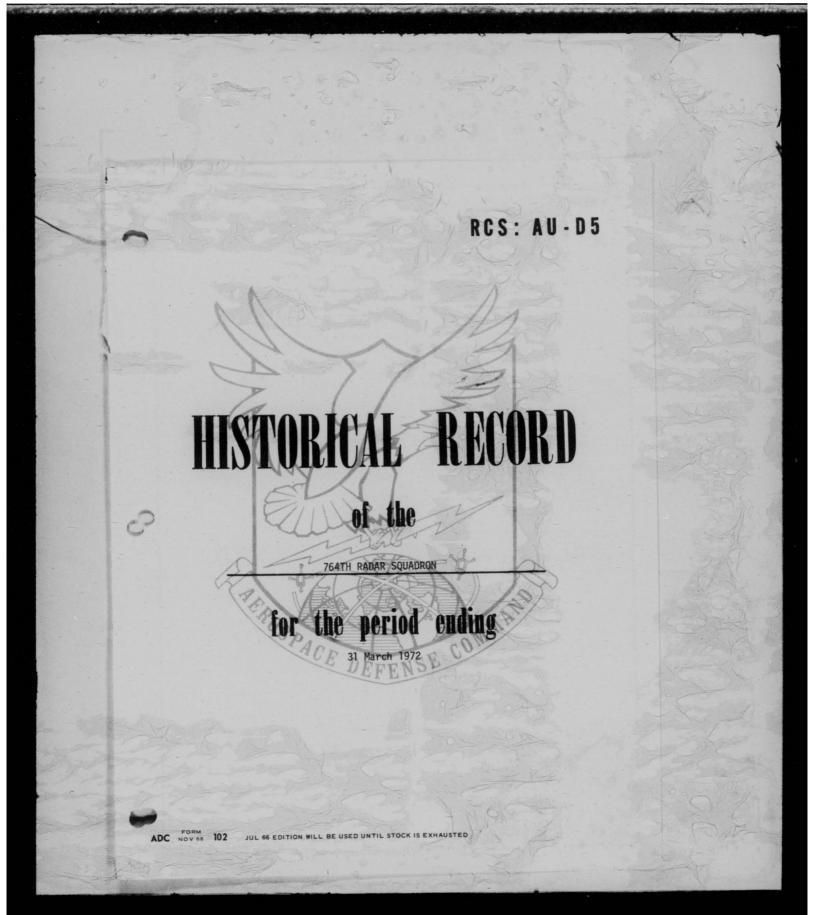
A preventative dentistry team from Otis AFB treated and examined military personnel for five days during the quarter. Otis AFB also sent a Veterinary Inspection team to inspect all foodservice facilities and to conduct a zoonossis clinic.

With the increase in authorized medical technicians to three, the dispensary gained two new men.

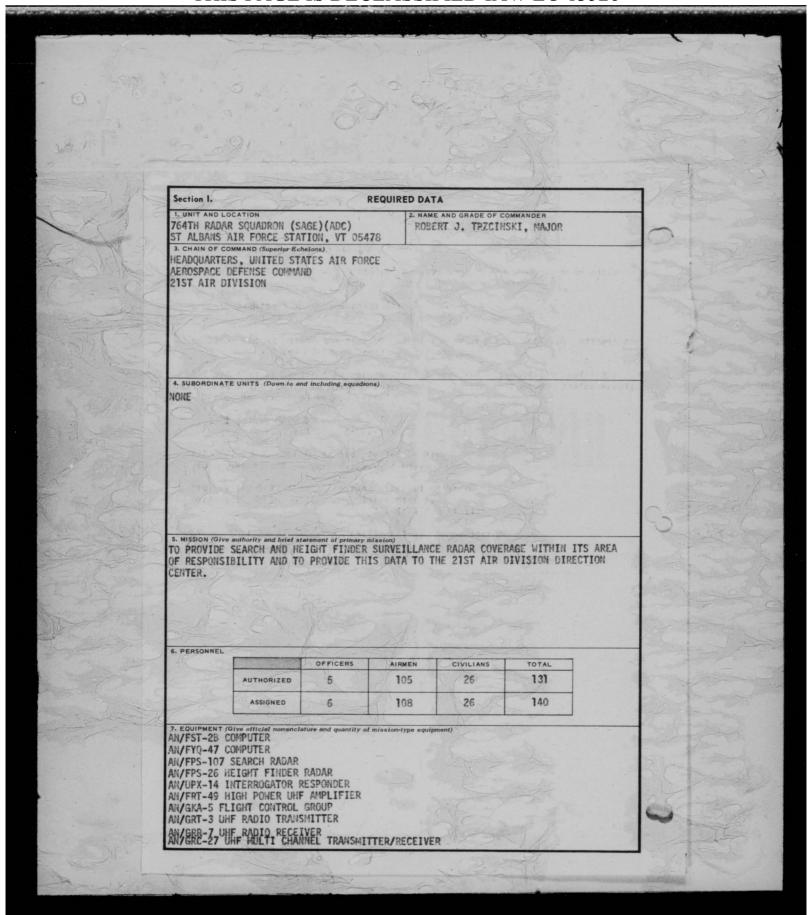
### GROUND SAFETY

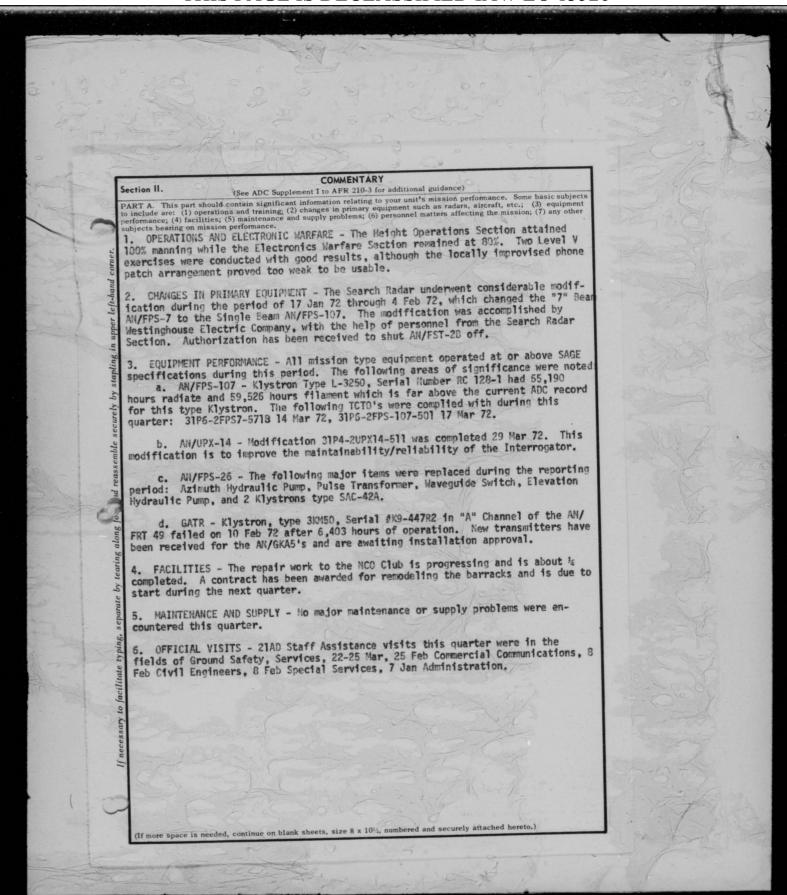
Two incidents of note took place during this quarter. One involved an injury to a civilian employee in the station commissary. The cost of this accident was two lost workdays and two hundred dollars in medical expenses. The other incident involved a fire in base housing which resulted in an estimated loss of seven thousand two hundred dollars in Air Force property.

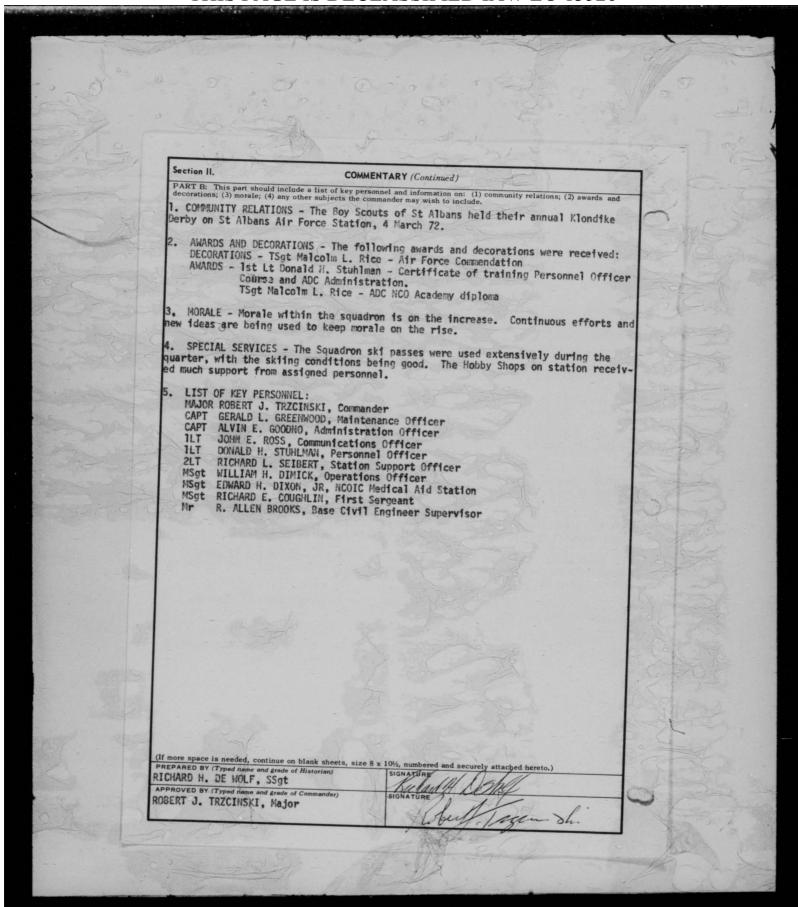
On 19 January a safety team from the 21st Region conducted a safety survey of this site.



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## HISTORICAL RECORD

### of the

765th AIR DEFENSE GROUP (SAGE) (ADC) CHARLESTON AIR FORCE STATION

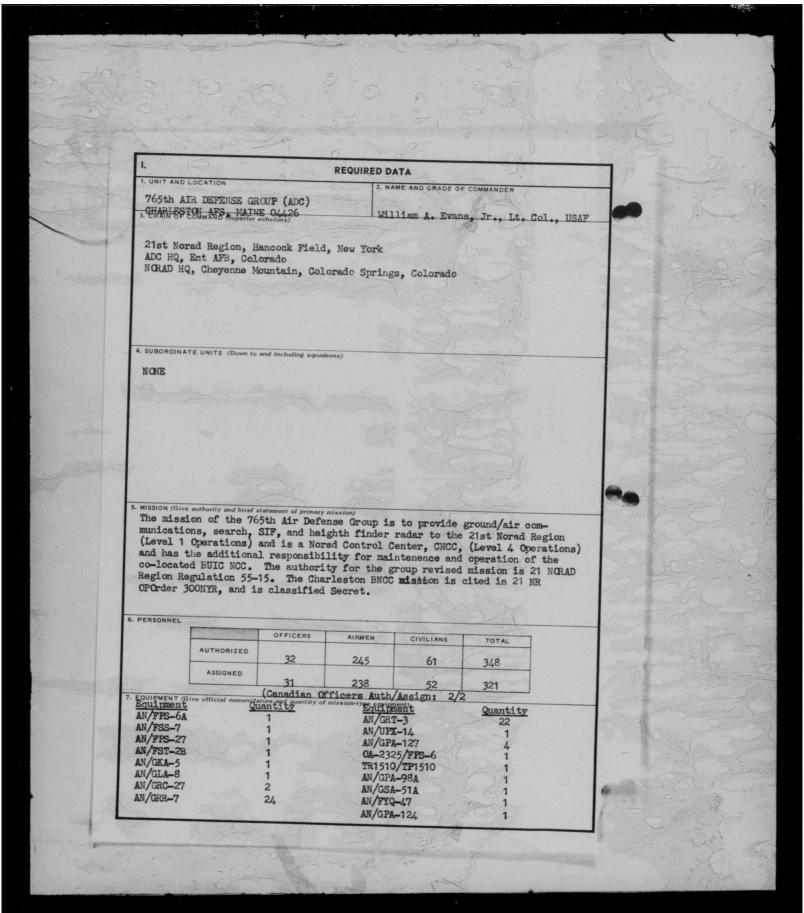
### for the period ending

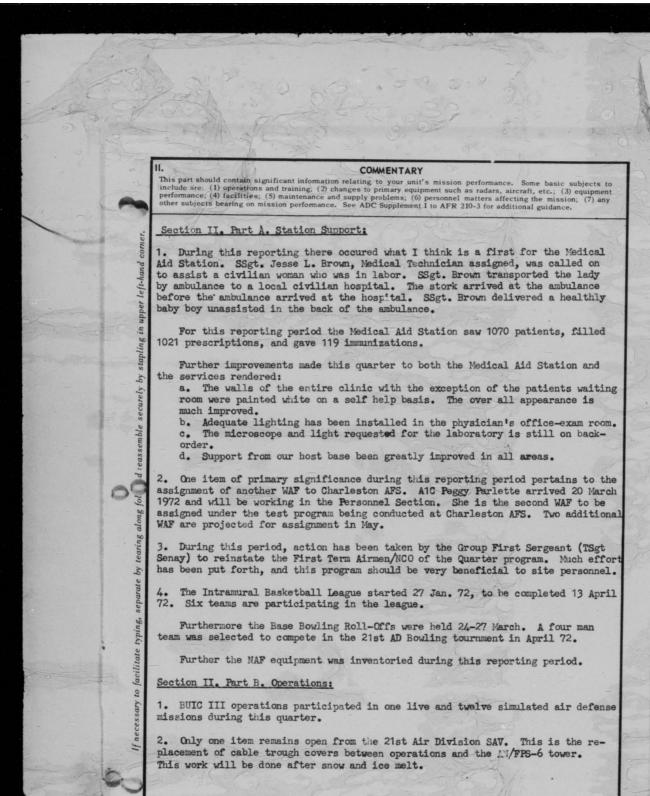
31 MARCH 1972

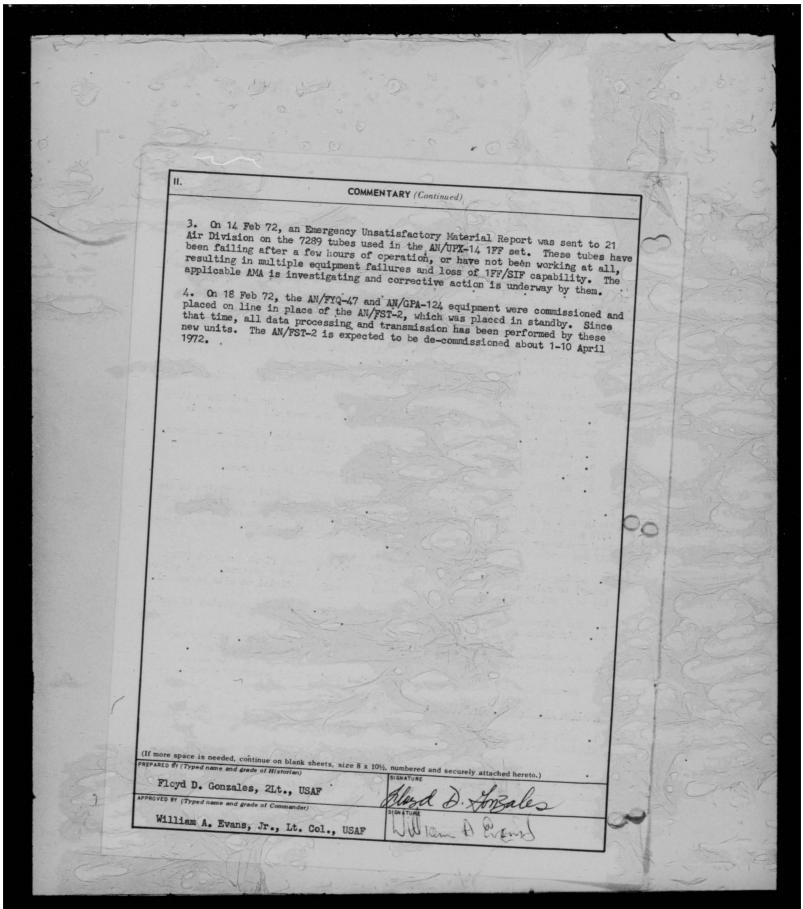
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# HISTORICAL RECORD

of the

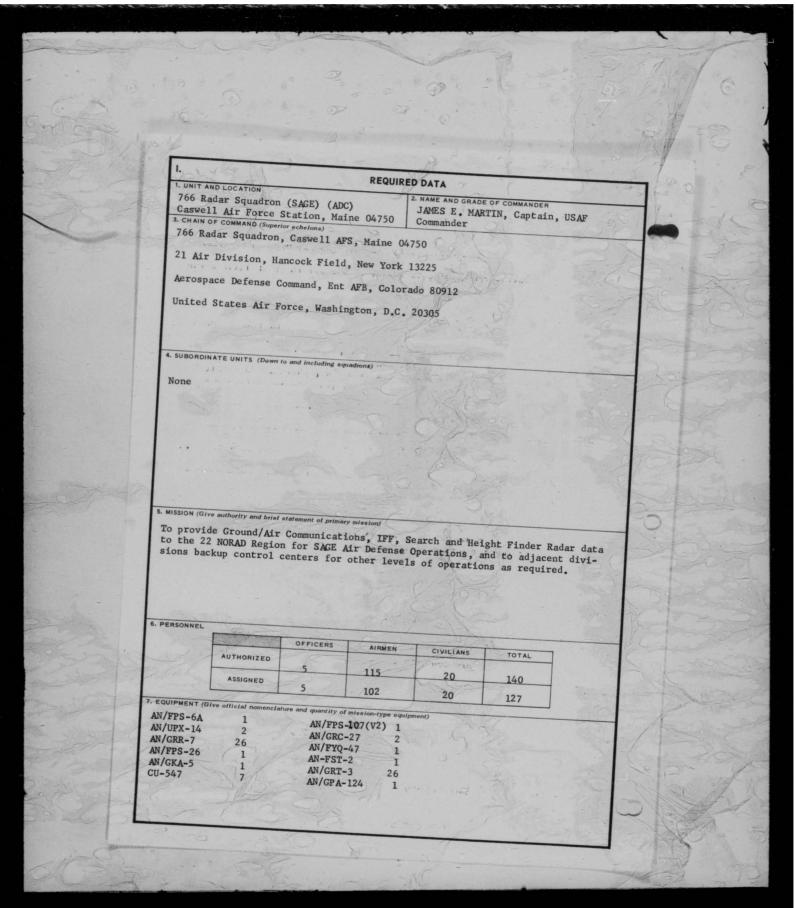
766 Radar Squadron (SAGE) (ADC) Caswell Air Force Station, Maine 04750

for the period ending

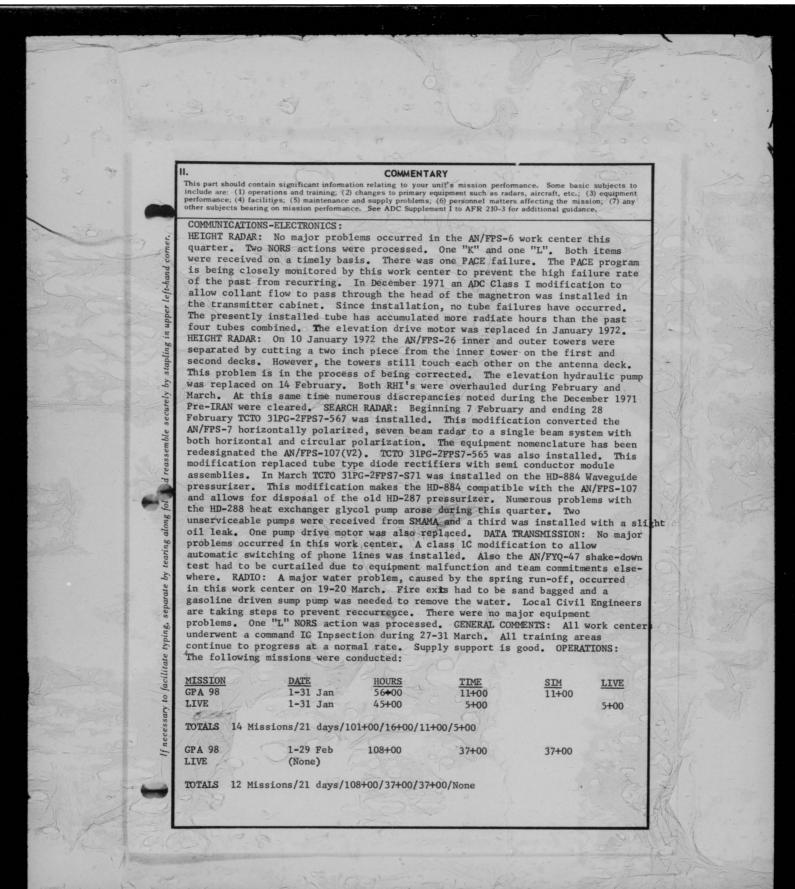
1 January 1972 - 31 March 1972

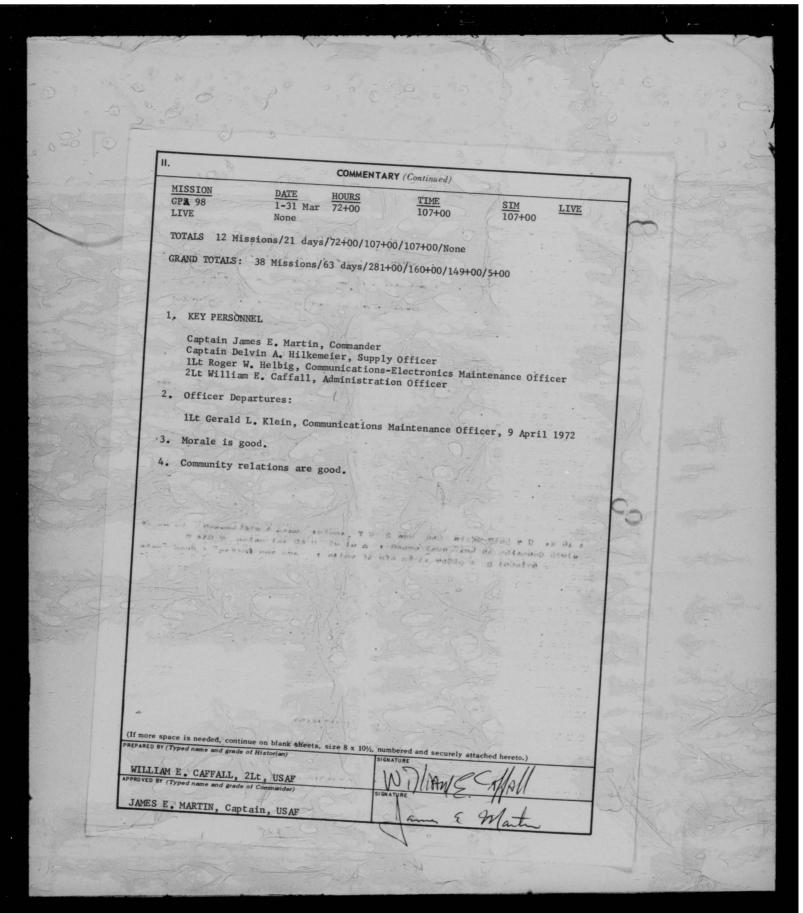
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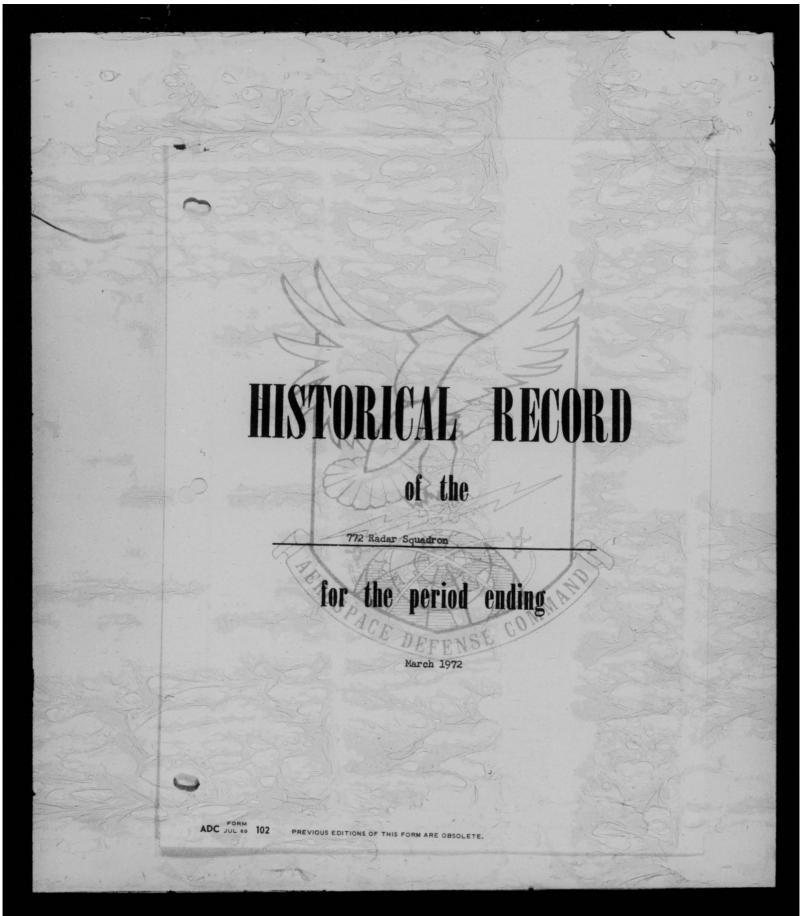


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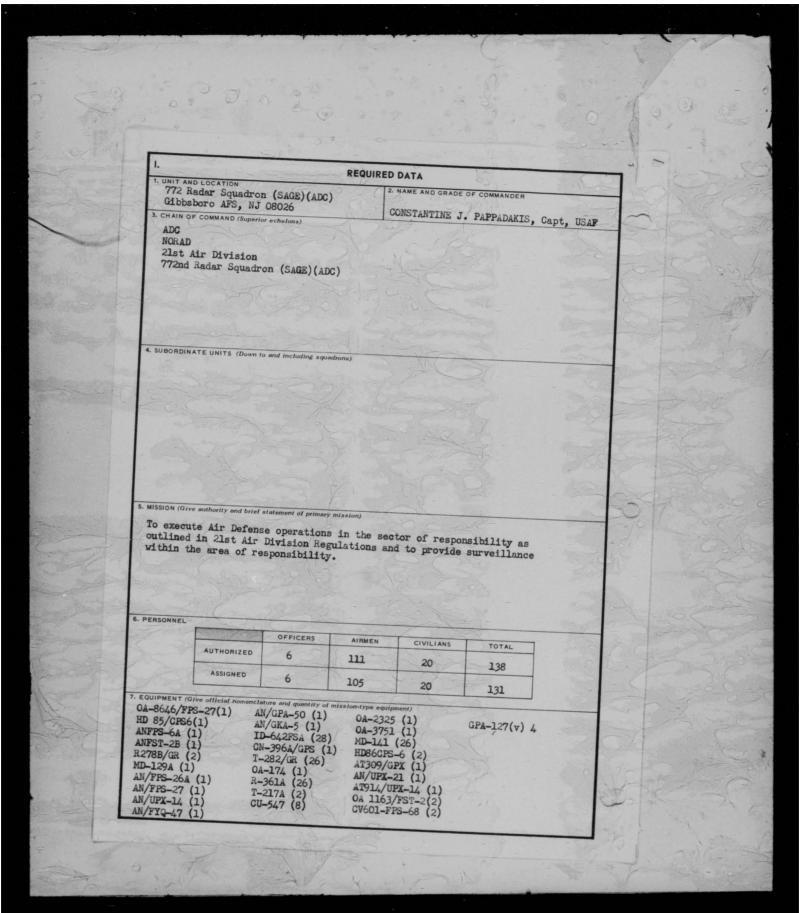




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			1 7/1 -
1. (20)	COMMENTARY (Con	tinued)	
c. All other Staff Agend	cies did not have	any significant histor	ical data
to report during this period			
4. Essential personnel as of	f 31 March 1972:		
		Commander	
Constantine J. Pappadaki Peter E. Jones	lst Lt	CEM Officer	
Dale R. Fillmore	lst Lt	Station Support Of	ficer
David J. Ashton	2nd Lt	Personnel/Administr	ation Officer
Donald R. Mutz	2nd Lt	Radar Officer	
Milton J. Rankin	CNS	NCOIC Maint Control	
Edgebert Alford	TSgt	NCOIC Station Support	
Richard D. Beers	MSgt	NCOIC Operations	
Edward L. Rhodes	MSgt	NCOIC FYQ-47 NCOIC, Maintenance Quality Control	
James N. DeDear	SMS MSgt	First Sergeant	
Donald G. Gamble Howard L. Guthrie	MSgt	NCOIC Height Finders	
Alfred C. Harris	MSgt	NCOIC FPS-27	
David Gilbert	Civ	Food Services Supervisor	
Ronald L. Scherich	TSgt	NCOIC Administration	
William S. Eng	SSgt	NCOIC Personnel .	
Edward A. Matthews	TSgt	NCOIC Leased Housing	
Norman P. Hammerle	Sgt	NCOIC Power Production	
Joseph S. Brown	TSgt	NCOIC Civil Engineers Civil Engineer Foreman	
Alfred Schramm	Civ	Power Production St	
George J. Shelton	OIV	10001 110000 01011 20	and the W
5. Other Significant Events	11 CARL		- 1/2
	C CAPC	andwated by men of the	7724 Roder
a. On 25 March 1972 a t Squadron for the Gibbsboro E	Clomontery School	Grades / thru 8. their	Teachers
and Parents. Approximately	70 people took ne	rt in this event.	TOGOTO .
and Parents. Approximately	to beobte cook by	7	
b. During this period M	Sgt Tatum, TSgt L	acker and SSgt Raymond	retired from
the USAF.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
c. The Air Force Commen	ndation Medal was	presented to the follow	ving
personnel: MSgt Tatum, TSgt	t Lacker and SSgt	Raymond.	
	B		
	De Company	10 × 10/1	
		BERTA.	
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		Dichard D Be	N
RICHARD D. BEERS, MSgt, USAI	nder) SI	Lichard D Hou	). Oa

## HISTORICAL RECORD

of the

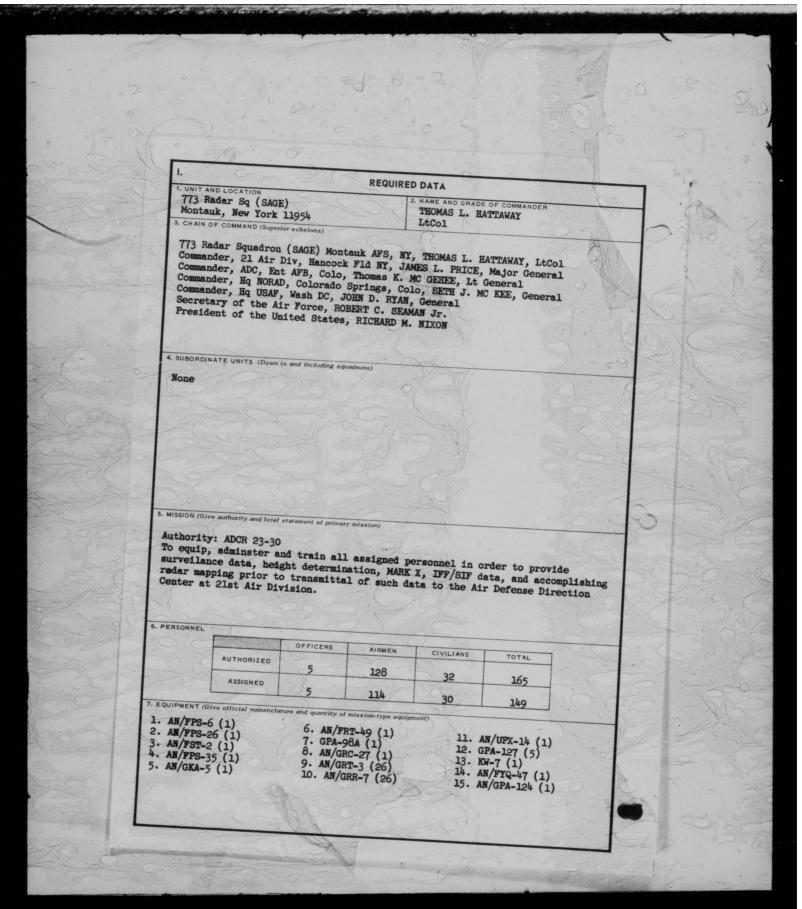
773rd Radar Squadron (SAGE)

for the period ending

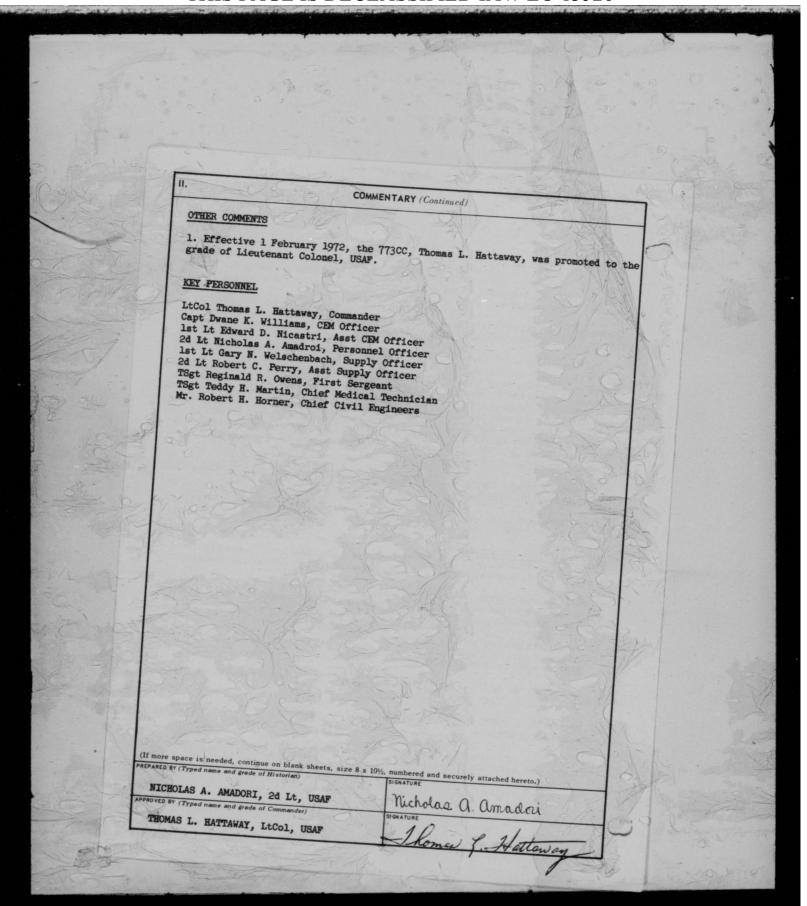
31 March 1972

ADC JUL 69 10

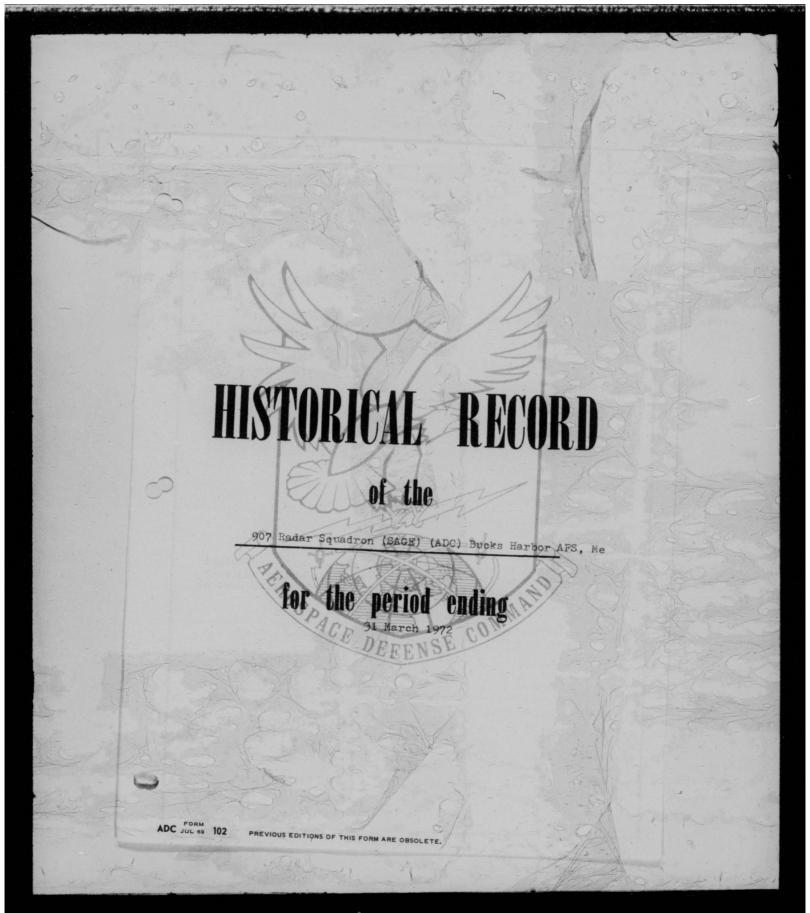
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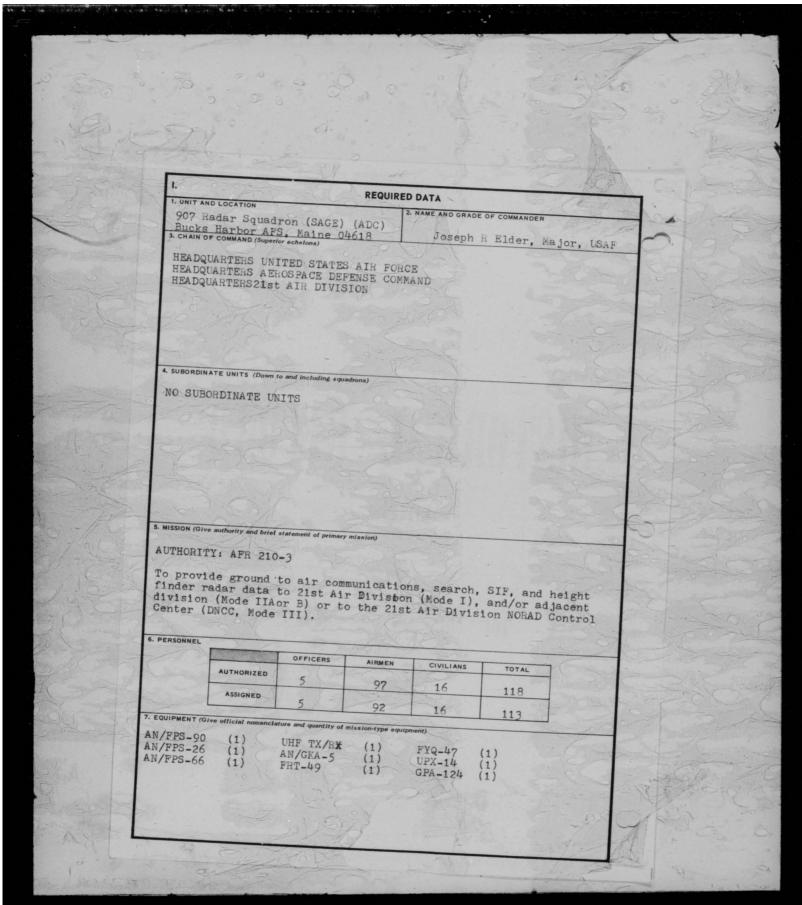
Officer, was separated from the active duty Air Force.



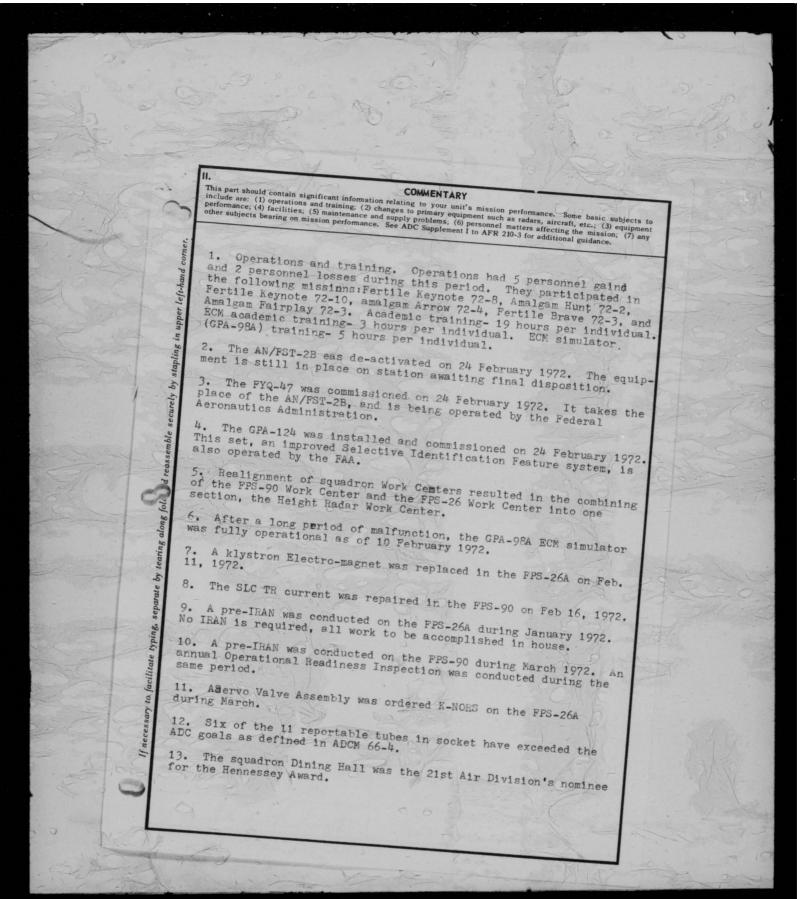
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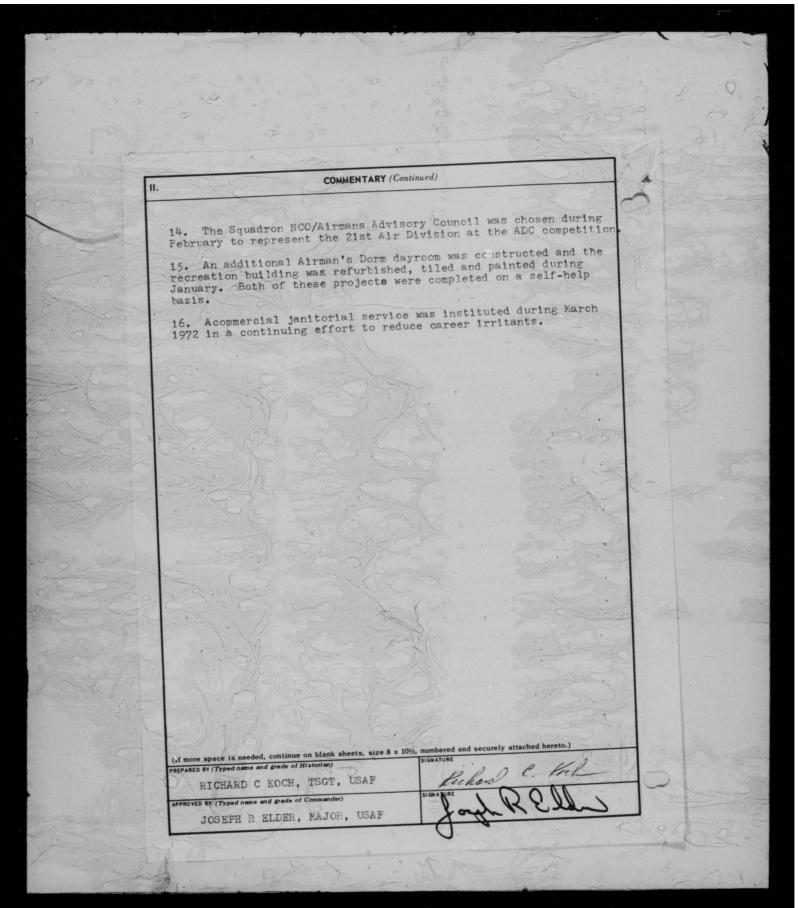


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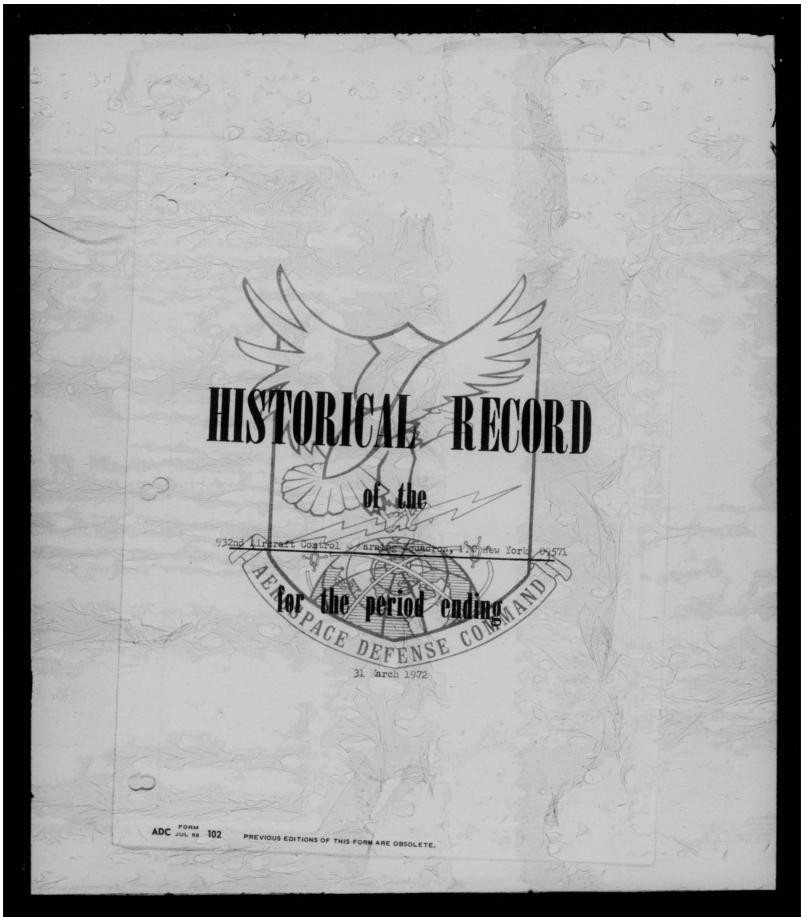


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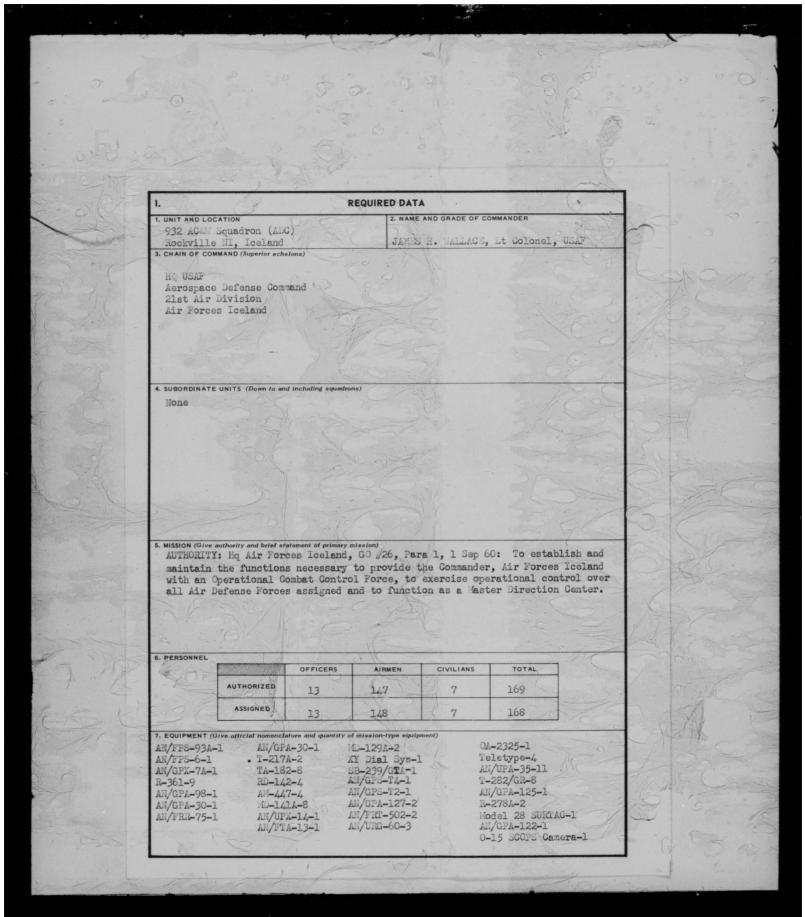




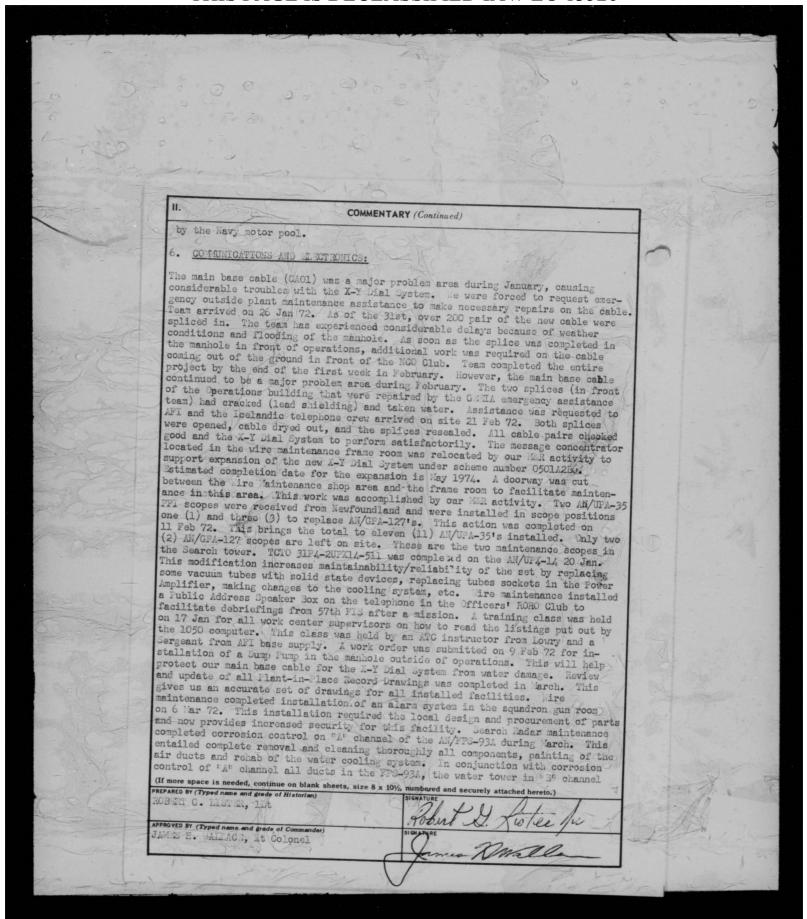
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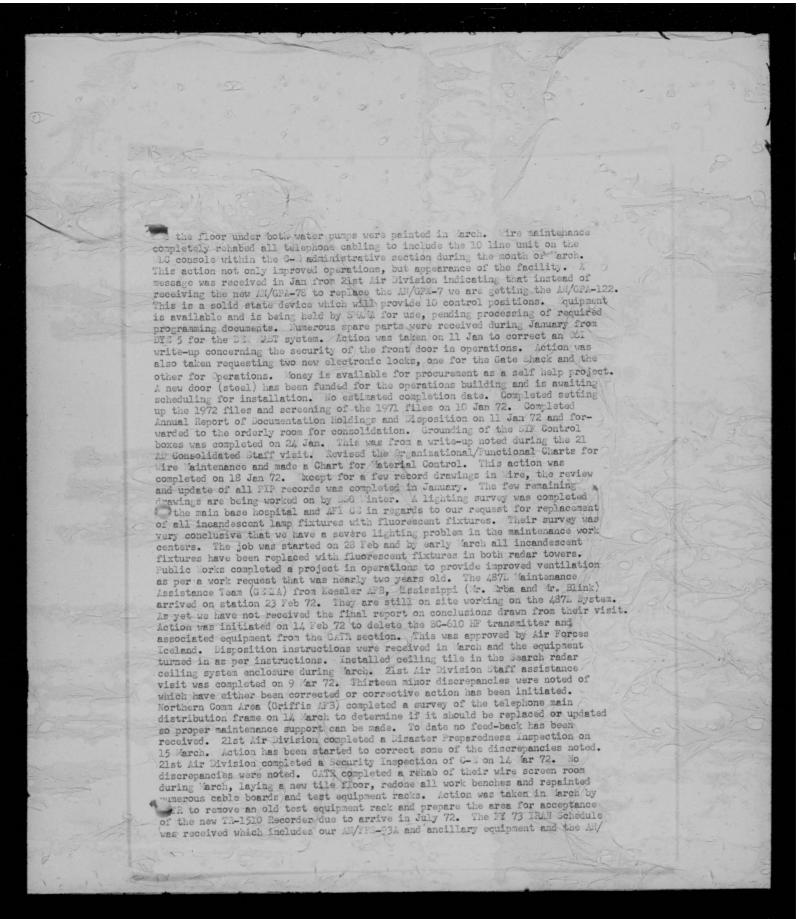


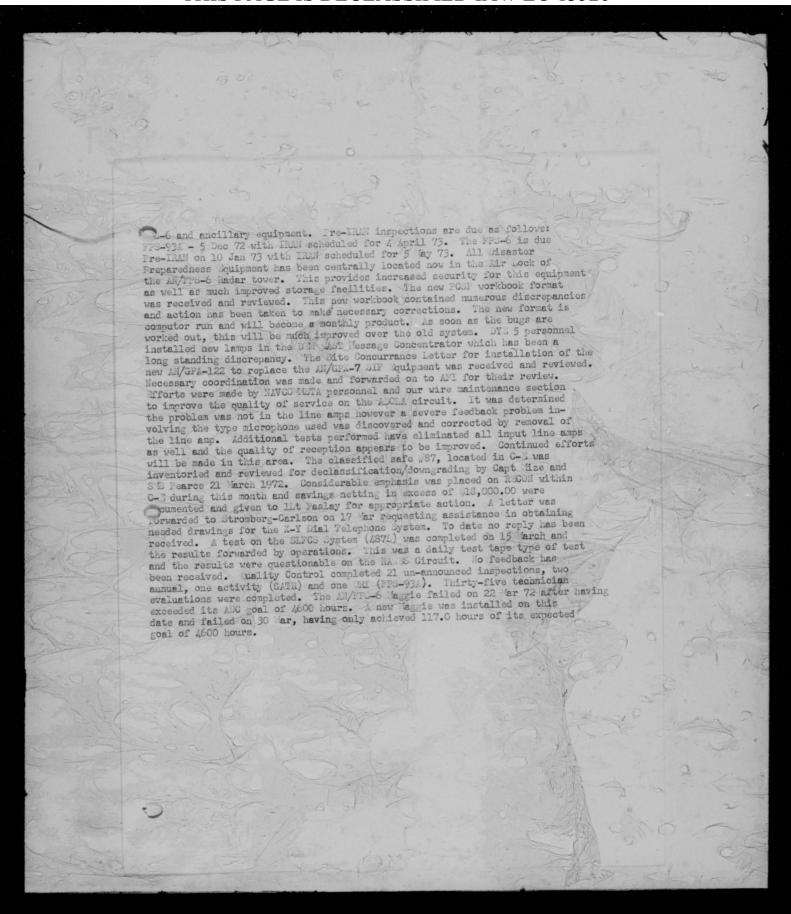
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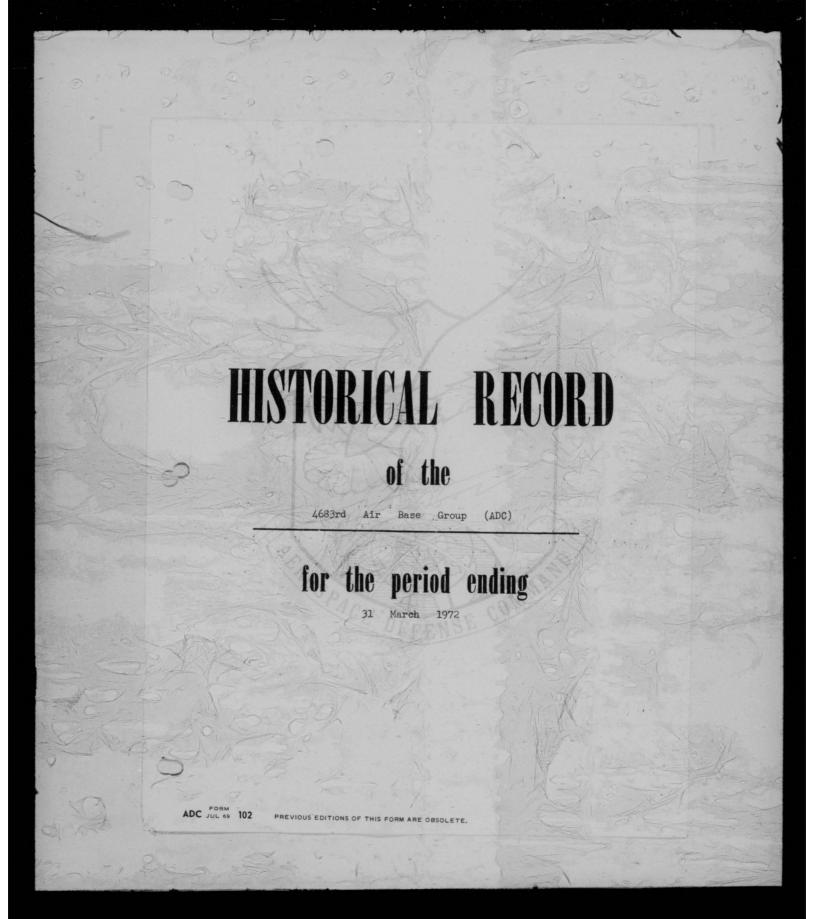


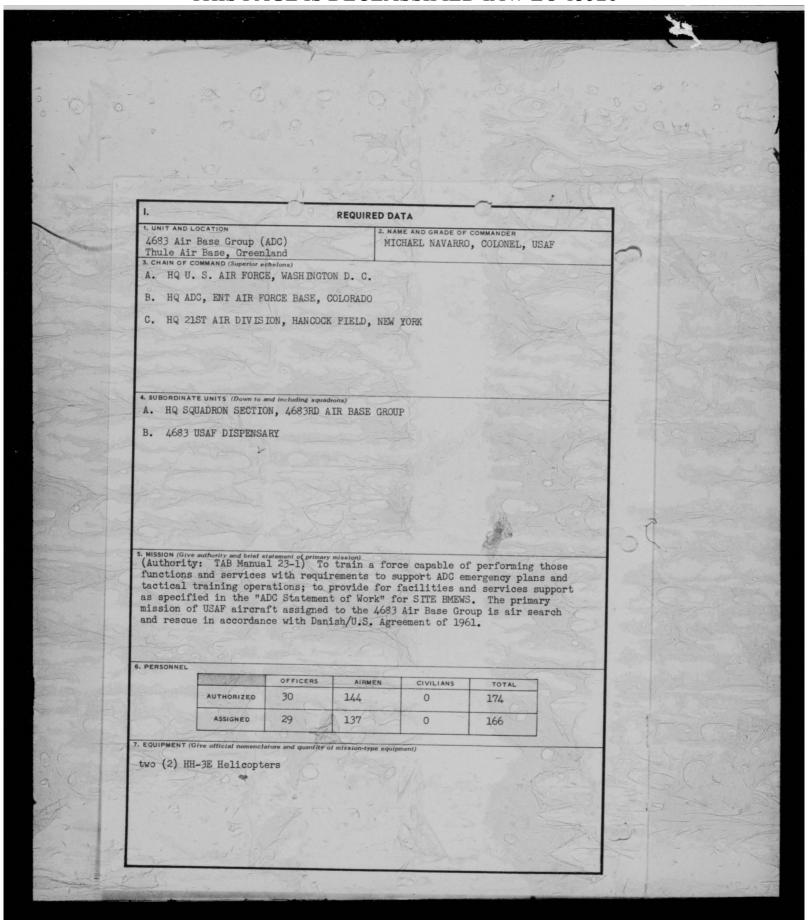
#### This part should contain significant information relating to your unit's mission performance. Some basic subjects to include are: (1) operations and training, (2) changes to primary equipment such as radars, aircraft, etc.; (3) equipment operformance; (4) facilities; (5) maintenance and supply problems; (6) personnel matters affecting the mission; (7) any other subjects bearing on mission performance. See ADC Supplement I to AFR 210-3 for additional guidance. Increased proficiency training in a threat environment, along with the weather, highlighted this quarter. Activity was limited at the first of the quarter due to snow, low ceilings and reduced visibility. However, operations personnel managed to conduct a total of 991 live intercepts plus 673 synthetic intercepts. Academic training completed totaled 2181 manhours. The live training was highlighted by the successful completion of four full-scale College atches, plus four mini-Gollege atches and two synthetic exercises. Suropean NATO radar stations reported 105 Non-MATO tracks containing 224 aircraft to 932 Operations. ighty-four tracks were declared unknown after penetrating the Icelandic ADIZ. A total of 67 aircraft were intercepted, identified, and forward-told to higher headquarters. The remaining tracks either never penetrated the ADIZ or departed radar coverage or departed coverage before an intercept could take place. 2. MAINT WANGS AND REPAIR During the first quarter of 1972 MR established and implemented an effective program of Preventive Maintenance on all site buildings. Repairs to the gasoline standby emergency engine were completed. A bench stock of necessary parts and materials has been established. At present a manning and fund shortage is a limiting factor of Marks operation. POWER PRODUCTION: The 700 hour preventive maintenance inspection was completed during this reporting period. The additional air receiver tank was tested, repaired, and placed in service during this time. Injectors in units #4 and #6 were replaced. Painting of all plant equipment was completed. Repairs to radiators #1, 2, and 4 have not yet been completed. Storm damage to plant roof during this period has not been repaired. As yet the work request to provide the plant with heat has not SUPPLY: Three (3) each AN/UPA-35 scopes were received for cyclic exchange, and one (1) each was received to replace a AN/GPA-127. In January Supply Training Classes were conducted by the AFF Supply Training Classes and Procedures (MAP) Branch for all property custodians and work center supervisors. Topics discussed were Standard Base Supply (1050) machine products and their use. In February and March Custodian training classes were given by Map and 40 personnel to all Supply personnel and equipment account custodians. xcess equipment items are being removed from the barracks and turned in to AFI Supply as time permits. Asteriel Control Completed a bench stock review and purification project on 30 March 1972. In March the Supply section received a Staff Assistance Visit from 21 IGS. All discrepancies have been corrected. 5. TRANSPORTATION: The distance driven for the quarter amounted to 12,030 miles. Total Vehicle Out of Commission time was 4,463 hours or 41 for the quarter. This high rate is attributed to the age of the vehicles and to the poor quality maintenance provide



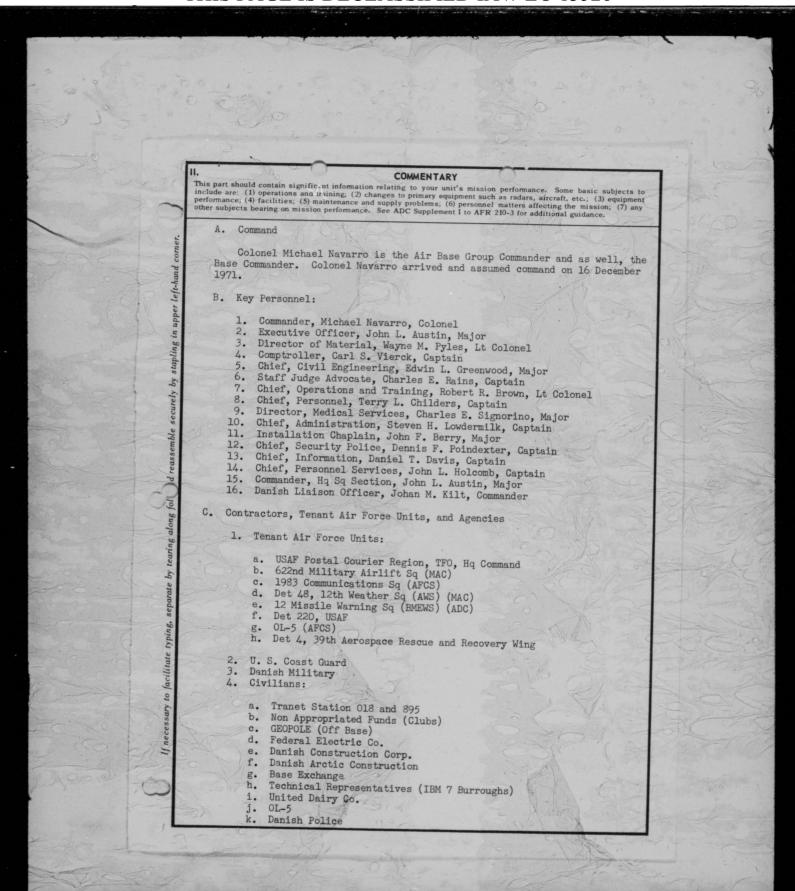


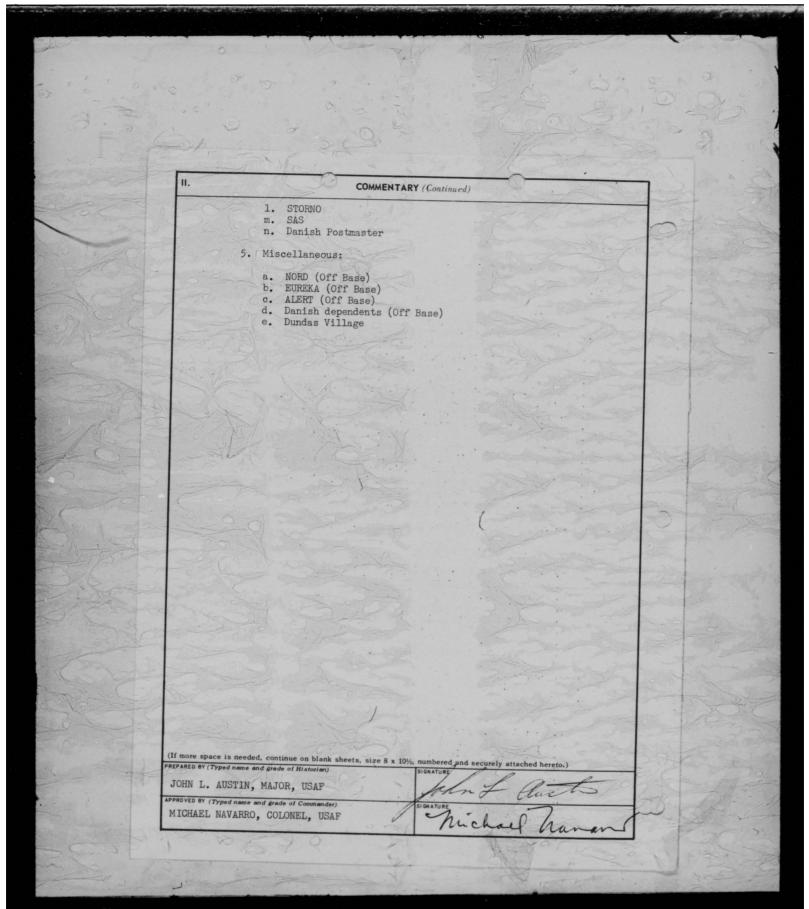






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#### 1. PERSONNEL DIVISION:

- a. Captain Terry L. Childers served as the Chief of the Personnel Division during this period.
- b. Total strength authorized for Air Base Group/Dispensary: 224.

  Total strength assigned to Air Base Group/Dispensary: 219.
- c. The total number of officers, airmen, and civilians attached to Air Base Group as of 31 March 1972 was 1750.
- d. Captain Russell, the Dispensary Administrator, identified a problem of too many people being assigned/projected in three (3) AFSC's, 981XO, 903XO, and 904XO. A letter was sent to Headquarters ADC through the servicing CBPO on the problem and action was taken to cancell/divert the excess projected gains.
- e. A cumulative retention rate of 25% was maintained for ADC units.

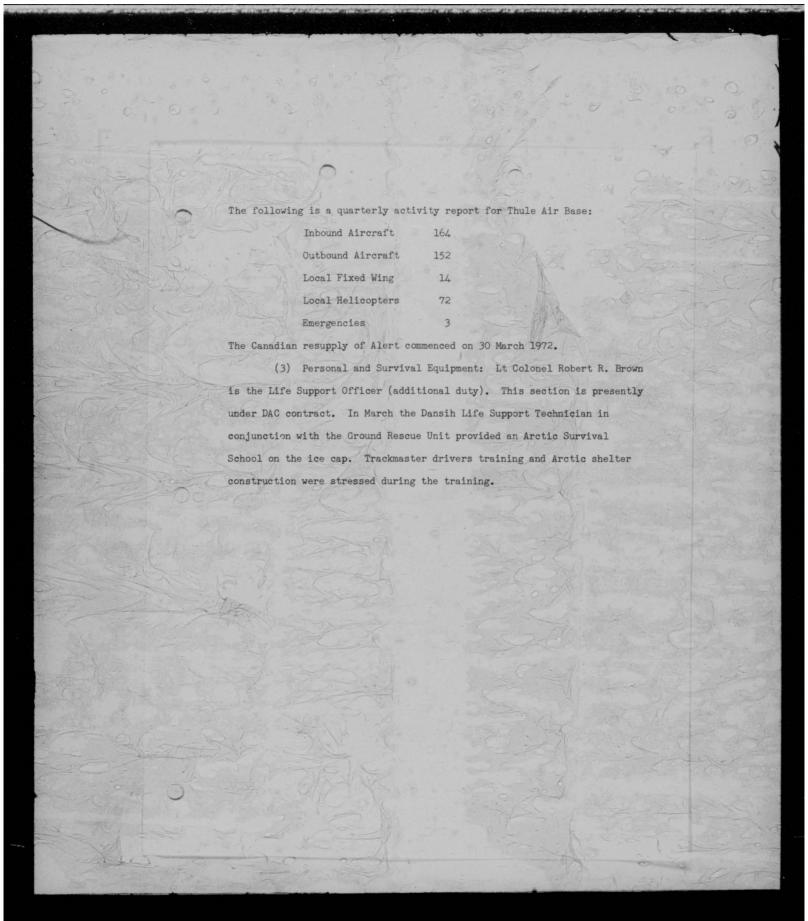
  Tenant units increased to 22%, a 3% gain over the last quarter.
  - f. The OJT program remains under the Headquarters Squadron Section.
- g. There were 139 officer and airmen arrivals and 121 departures during this period of report.
  - h. Major accomplishments of this division were:
  - (1) 10 Air Force Commendation Medals were presented.
- (2) Recommendations for two (2) Meritorious Service Medals were forwarded and approved.
- (3) Thirty recommendations for the Air Force Commendation were forwarded for approval by 21st Air Division.
- (4) Eight Air Force Commendation Medals are still pending approval on Danish and American Civilians.
  - i. No major problems were encountered.

#### 2. OPERATIONS AND TRAINING DIVISION:

- a. Lt Colonel Robert R. Brown held the position of Chief, Operations and Training during this period of report.
- b. The functions of the division are: To support ADC and SAC contingency plans and tactical training operations, provide support to and coordinate with all activities using the airfield facilities, to manage and conduct the Base Disaster Preparedness program, to monitor those portions of the Danish Arctic Contractors contract pertaining to base operation dispatch and life support.

#### c. Major Accomplishments:

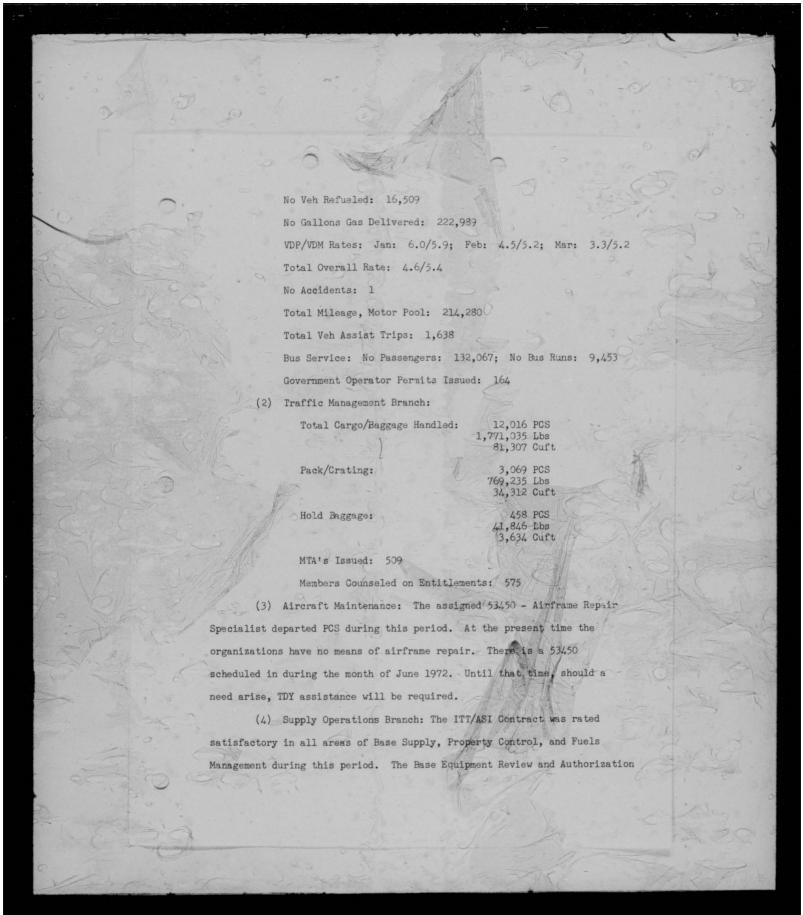
- (1) Disaster Preparedness: TSgt Richard L. Strickland assumed the duties of the Base Disaster Preparedness NCOIC on a temporary basis. He was assigned to the unit TDY from the Base Civil Engineer Division for a period of 89 days. During the first quarter 169 military and 80 civilian personnel received Arctic Indoctrination Training upon their initial arrival at Thule Air Base. The Branch also provided this training to approximately 115 Canadian Air Force personnel prior to their Boxtop Operation begun in March. Refresher trackmaster training was given to the Ground Rescue Teams. During this quarter waivers were requested from higher headquarters to eliminate training requirements for the Disaster Response Force. The waivers were denied with a letter from headquarters stating they would help provide the training during their staff assistance visit in the near future.
- (2) Base Operations: Lt Colonel Robert R. Brown, as the Chief,
  Operations and Training Division had the responsibility for the Base Operations
  function. The actual operations of the dispatch function is under DAC contract.

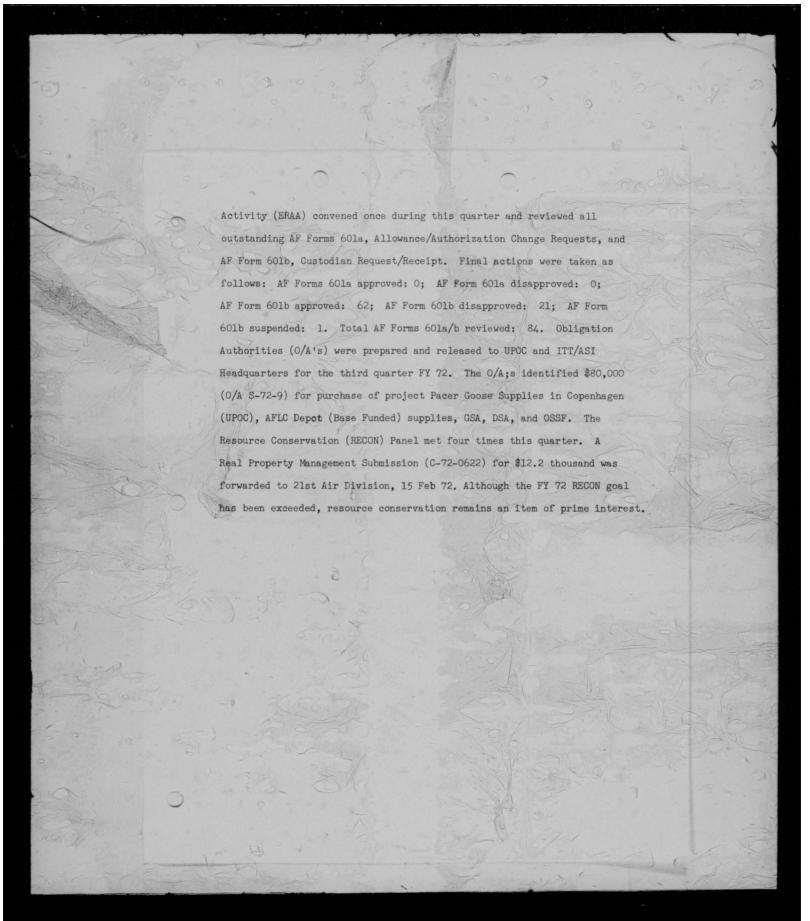


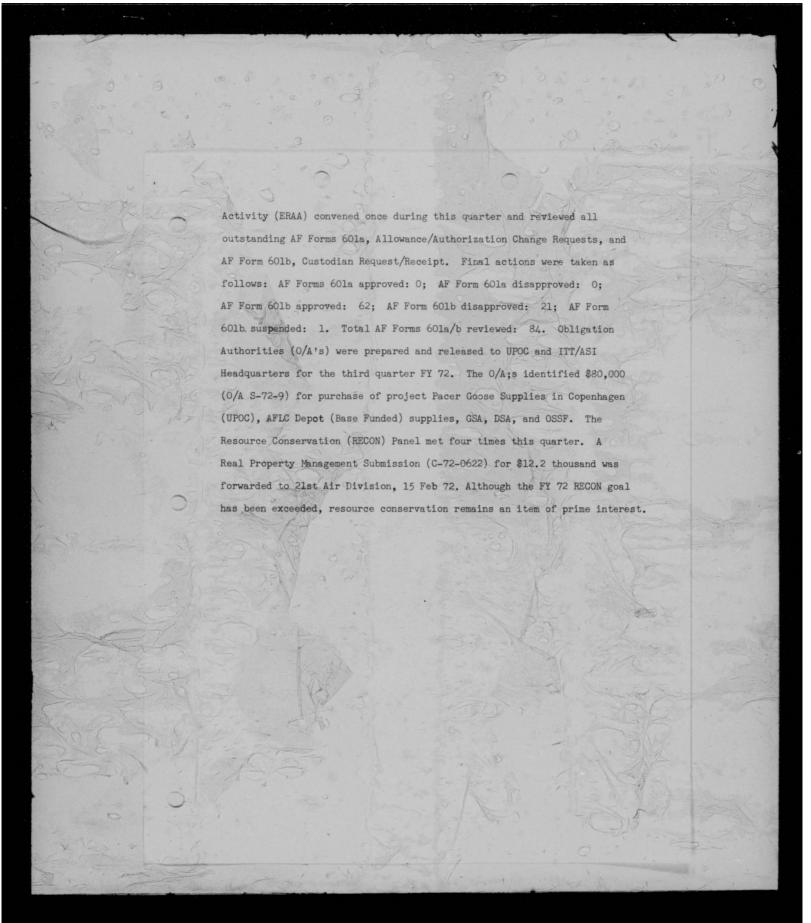
### 3. LOGISTICS DIVISION:

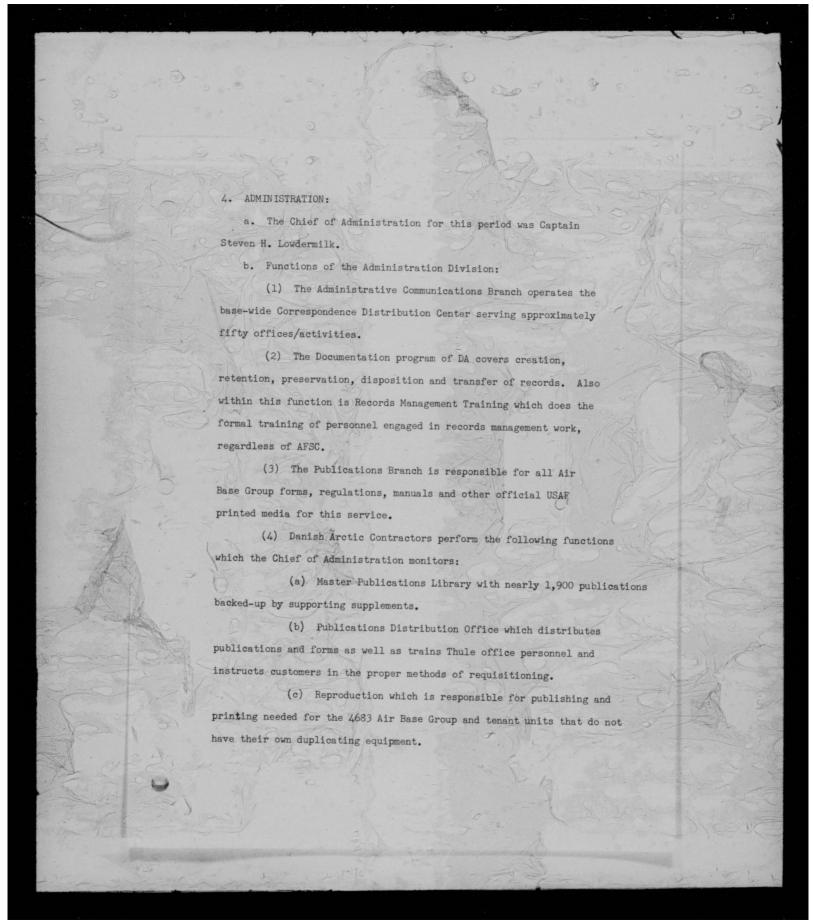
- a. The Director of Logistics during this period was Lt Colonel Wayne M. Pyles.
- b. Summary of functions of Logistics Division: Monitorship of International Telephone and Telegraph/Arctic Services Inc. (ITT/ASI) Contract pertaining to supply, equipment, transportation, aircraft maintenance, and fuels. Responsible to Base Commander for overall surveillance and assistance in monitorship of base support contracts of the DAC and ITT/ASI.
  - c. Summary of Accomplishments:
    - (1) Transportation Branch:
- (a) Conversion of the first Oshkosh Model WT-2206, Reg No 6501717, was completed and the truck is in operation. A caterpillar Diesel Engine Model 1693 was installed inplace of a Hercules 10900E Gasolene Engine.
- (b) A Cost Reduction (RECON) submission in excess of \$12,000 was submitted by Motor Pool resulting from a deletion of vehicle authorizations (Trailers).
- (c) Engines from the LCM's have been removed and are being overhauled by Vehicle Maintenance.
- (d) DAC was given a letter of appreciation from the Base Commander for the notable improvement in the VDP and VDM rates. The rates are the lowest in several recent years.
- (e) A new passenger reservation and forecasting system was initiated in January. Many procedures have been eliminated and a more streamlined confirmation process is now in effect.

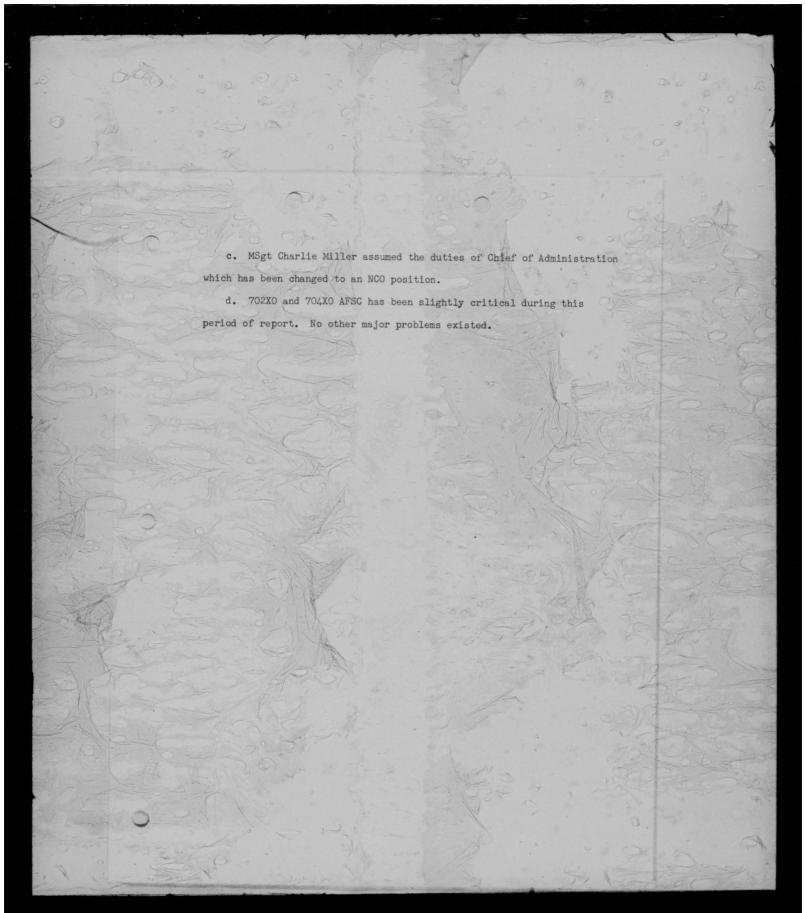
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		General Purpose Passenger Carrying
Vehicles:		
		4 Snowplows 15
5 7	Trailers 5	
	Stake/Platform 30	
		1. Graders 8
The state of the s	Dump Trucks	
		3 Cranes 6
Si or to some		2 Sweepers 8
	Truck Tractors 27	
		Whse Cranes 1
	Towing Tractors 4	
	Refuse Trucks 3	
	Water Trucks 4	
	Vans 2	
A GRANT STATE	Line Trucks 4	Fire Trucks 9
	High Lift 2	
	Trackmasters 14	Total Base Support Veh: 529
	# 37	Total All Veh Supported: 709
	Transportation Branch	Statistics:
	Vehicle Maintenance:	
	Vehicle Gains:	5
A CONTRACT OF THE	Vehicle Losses:	5
CATA TO AM	Work Orders Completed:	: 3348
	Service Sta Checks:	7176
	LTI's Performed:	22
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### 5. CHAPLAIN SERVICES:

- a. Major John F. Berry served as Installation Chaplain during this reporting period.
  - b. Major Accomplishments:
    - (1) 7 January CMOC Dinner was held at the NCO Club.
- (2) 25 January Appreciation Dinner was held at the Officer's Club to recognize the individuals and organizations that helped to make Operation Julemand such a success.
- (3) 27 January PMOC Dinner was held at the NCO Club, guest speaker was Ron Kurr, his main topic was the Dye 3 on the Southern Ice Cap of Greenland. Also new PMOC officers were elected. Inducted were: Bob Klink, President; Gerald Quick, Vice-President; and Johnnie McDowell, Program Chairman.
- (4) 3 February Presidential Prayer Breakfast was held at the Mess Hall, President Nixon was presented on a tape recording.
- (5) 8 February Chaplain John Morrisson arrived for a spiritual retreat for all Catholic personnel. He is from Fordham University.
- (6) 9 22 February Chaplain Robert B. Lantz was here TDY from Niagara Falls Air Station to help out while Chaplain Berry was on leave.
- c. Personnel changes are as follows: Chaplain Joseph R. Haffly arrived 28 February to replace Father Lugo who departed 8 March. Sgt Jensen departed for Goodfellow AFB. To replace him, Sgt Frank Ciarleglio arrived from Seymour Johnson AFB, North Carolina on 7 March.

### 6. CIVIL ENGINEERING:

a. Major Edwin L. Greenwood served as Base Civil Engineer for this report. Major Greenwood departed on leave 18 December 1971 and returned from leave 8 January 1972, while Captain Walter R. Davis was serving as Acting Base Civil Engineer. Major Greenwood was TDY from the period of 16 February 1972 to 26 February 1972 as Captain Gary R. Worrall served as Acting Base Civil Engineer for this period.

b. The following are narratives of some events from individual branches assigned to this division:

### (1) OPERATIONS AND MAINTENANCE BRANCH:

- (a) Routine job orders, service calls, equipment maintenance, and other routine maintenance was performed. Utilities maintenance, Roads and Grounds, and the Carpenter Shop have all had to delay scheduled maintenance in order to complete priority work. These areas are being closely watched to determine if adequate personnel strength is provided.
- (b) Twenty-nine barracks have been completed under Project Better Living. Nineteen of these barracks still require installation of 220 volt and three prong outlets, which will be accomplished as material becomes available.
- (c) A new diesel generator has been received and is to replace unserviceable unit used for Command Post stand-by used to house unit will also be repaired.
- (d) Paul Hansen completed the Multi-Amp course and inspection of relays can now be accomplished in order to comply with two-year requirements. About one year will be required to complete the coordination study and the required maintenance.

- (e) The wannigan to be used by Communication is now in place on South Mountain TACAN site.
- (f) Extensive phase damage has been experienced, especially the roofs on hangars 3 and 4, and fire station number 2. Repairs were made quickly and thoroughly.
- (g) Heavy snow accumulation was experienced as a result of phases both on base and the flight line. Priority one removal was quickly accomplished. However, priority two and three removal was slow and excessive accumulation resulted during a series of phases.
- (h) Excessive damage to phase markers was also experienced during the phases and replacement difficulties occurred due to non-availability of reflectors. Priority requisition was initiated through supply channels and emergency replacement was accomplished with green reflective tape.
- (i) Water samples indicated recoating was necessary on interior of one demineralized water tank. Extensive research through 21st AD, Hq ADC, and Hq SAC was required to determine what coating material and testers were necessary and proper procedures of application. Tank is used for SAC support.
- (j) Lumber supply is depleted causing a substitution situation. Supply is taking action to airlift plywood.
- (k) Specific dimensions of lumber cannot always be obtained due to low supply level, thus requiring substitution in some cases.

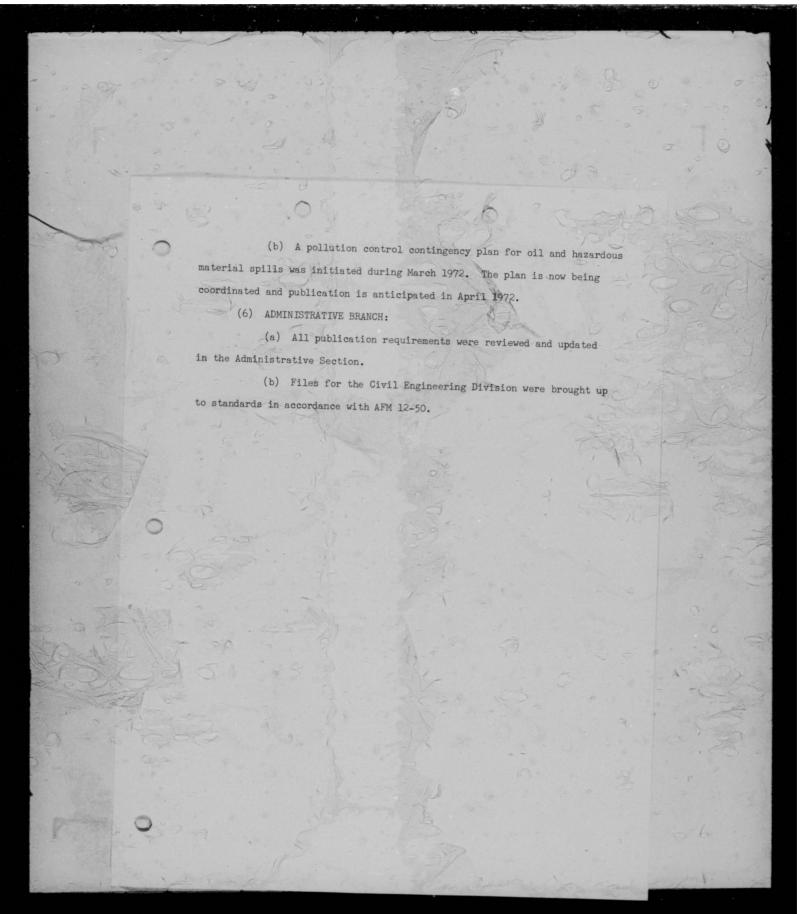
  Contractor was instructed to survey future needs and determine if airlift is required.

# (2) FIRE PROTECTION BRANCH:

- (a) Fire protection equipment now consists of two Oll-B's, two P-2's, two water tankers, one foam trailer, one R-2A, two P-6 pick-up's, two pick-up's, one crew cab and one track vehicle.
- (b) During this reporting period 8 evacuation drills were conducted. A total of 259 military and civilian personnel attended 11 fire prevention lectures and demonstrations.
  - (c) No fires occured during this quarter.
- (d) The Fire Department responded to one emergency landing, 56 refuels and defuels, one fuel spill, 446 welding heater standbys, 52 false alarms, 129 hours of flight line inspections and 2,504 nightly inspections conducted by on duty Fire Fighters.
- (e) The Fire Department Technical Service Inspectors conducted 1,386 inspections and follow-up inspections as required. They also conducted 3,946 special hazard "NO SMOKING" night inspections. A total of 719 fire extinguishers were serviced.
  - (3) INDUSTRIAL ENGINEERING BRANCH:
- (a) An analysis of first half and second quarter In-Service Work
  Plan versus actual work received was completed.
- (b) Tasks of the Base Utilities Conservation Officer were assigned to the Industrial Engineer.
- (c) A \$12,200 RECON submission was presented to the RECON Board and forwarded to higher headquarters for approval. A short title for the submission was "Cancellation of Work Orders".
- (d) Material and scheduling backlogs were formulated and analyzed to the labor force work effort.

# (4) PROGRAMS BRANCH:

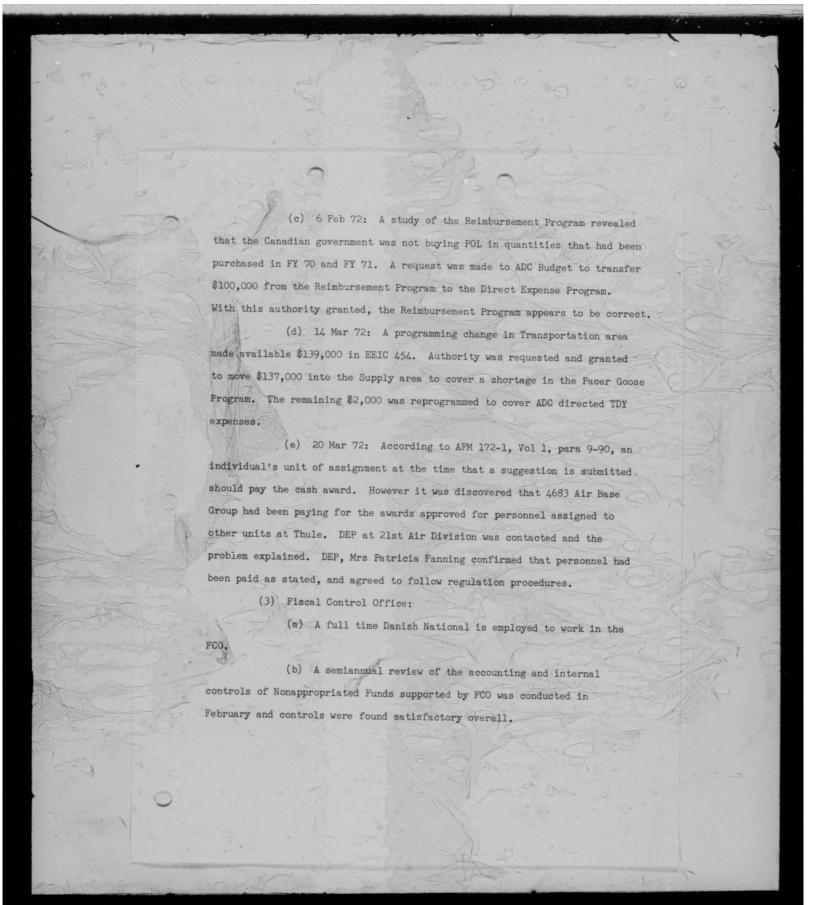
- (a) On 3 February 1972, Captain Todd I. Stewart replaced Captain Walter R. Davis as Chief of Programs.
- (b) A Real Property Resources Review Board meeting was held on 22 February 1972. At that time, projects THU 6-2 (maintenance of the Bowling Alley) and THU 9-2 (maintenance of the 1200 feet tower) were approved for submission to ADC. In addition, the FY-73 In-Service Work Plan, previously reviewed by the RPRRB, was approved by the Base Commander.
- (c) DD Forms 1391 were submitted to Hq ADC for approval and/or funding on the following projects: THU 7-2 (repair of kitchen exhaust system #107), THU 9-2 (maintenance of 1200 feet tower), THU 10-2 (repair of kitchen exhaust system #362), THU 11-2 (repair of kitchen exhaust system #732), THU 12-2 (repair of kitchen exhaust system #236) and THU 13-2 (repair of kitchen exhaust system #2146).
  - (5) ENGINEERING AND CONSTRUCTION BRANCH:
- (a) This section is presently conducting a literary search into the uses of sprayed-in-place urethane foam. Assistance in this effort has been obtained from the U. S. Army Cold Region Research and Engineering Lab (CRREL) at Hanover, New Hampshire, through Mr. Wayne Tobiasson. He has provided numerous magazine and technical articles on the various uses of urethane foam along with manufacturing information. The primary uses of urethane foam here at Thule are: as an interior vapor barrier for high humidity atmosphere in building 970 (Swimming Pool) and as an interior sealant against snow infiltration in building 1824 (OL-5 Operations). The two problems to be solved are cost the foam and the foam may be a high potential fire hazard.



### 7. COMPTROLLER DIVISION:

- a. Acting Comptrollers during this period: Capt Carl Vierck (1 Jan 22 Mar 72) and 1Lt Gary D. Bray (23 Mar 31 Mar 72).
  - b. Summarized functions of Comptroller Division:
- (1) Accounting and Finance Receives, disburses and safeguards public funds as an agent of the U. S. Treasury. Maintains principal financial accounting records and prepares associated financial reports. Provides prior certification of fund availability under approved financial plans and within scope of governing statutes and directives. Provides advice to the Commander and other staff agencies relating to accounting and finance. Provides prompt and regular payment of military personnel, travel claims, and other vouchers.
- (2) Budget Develops in cooperation with various staff agencies, estimates in support of requirements for formulation with the President's budget. Develop in accordance with higher headquarters guidance of annual financial plans. Provides budget service for tennants. Monitors execution of approved financial plans. Makes analyses of financial plans and advises staff agencies of necessary revisions/changes.
- (3) Fiscal Control Office Responsible for the uniform accounting of nonappropriated funds (NAF) at base level, ie., Officer's Open Mess, etc. Maintains general ledger of central accounts and detail subsidiary records which are balanced to ledgers or records in each NAF activity. Prepares month-end financial statements and briefs respective advisory councils of the activity's financial condition. Reviews internal control and operating procedures of each activity to determine compliance with governing directives.

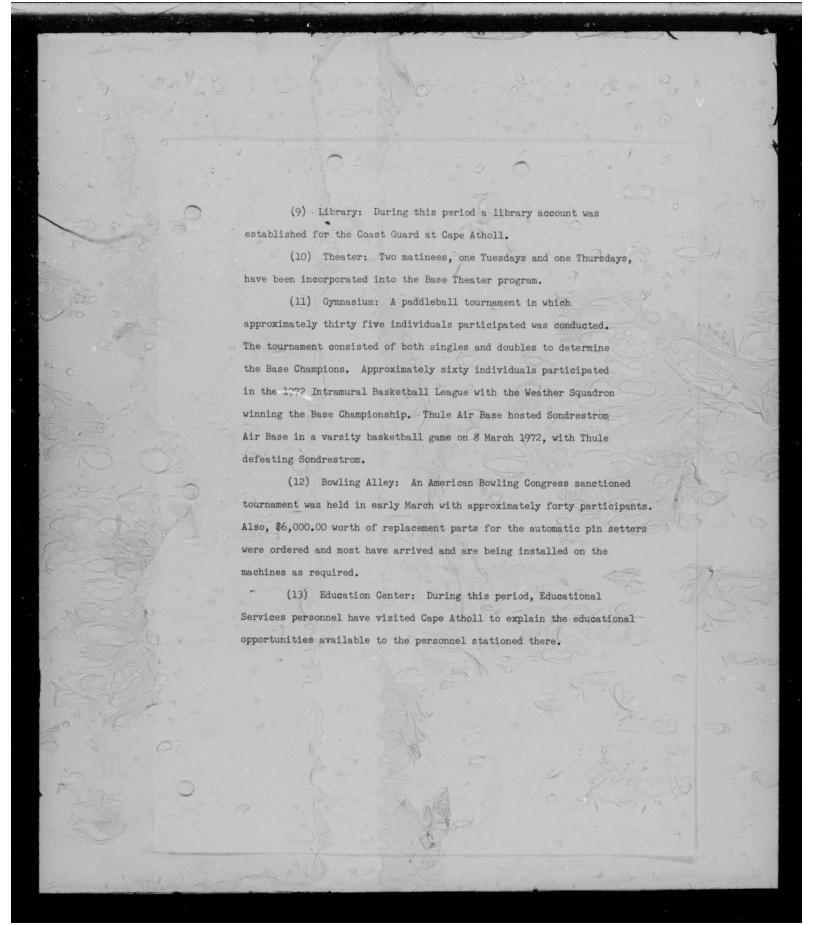
- c. Major accomplishments of each section during this quarter:
- (1) Accounting and Finance:
- (a) Manning changes were minimal during this period. 1Lt
  Kennedy was replaced as Deputy Accounting and Finance Officer by 2Lt Elvin
  R. Tibbetts in early January. MSgt Orson Williams arrived and was
  appointed NCOIC of the entire Accounting and Finance Office.
- (b) 2Lt Tibbetts, Staff Sergeants Danny Hodges and Daniel Kollars performed TDY at Ent AFB, Colorado. This trip was aimed at coordinating details of scheduled transfer of the Thule accounting function to Ent AFB on 1 April 72. Among desisions reached while at Ent AFB were: transfer of Thule's leave accounting support from Loring to Ent, Thule would continue to process local billings such as telephone bills and commissary billings, and all possible comptrollers service would be provided to Thule by Ent to assure maximum customer service.
  - (2) Budget:
- (a) 1 14 Jan 72: Preparation of FY 73 Operations Operating Budget. All Resource Advisors submitted their requirements to Budget Office, totaling \$15,813,400. The budget was consolidated and submitted to ADC in the required format on 14 Jan 72.
- (b) 25 Jan 72: An error in paying travel payments for the DAC Contract employees was discovered by Lt Bray. When vouchers were computed by the Travel Section, they were also being paid by the cashier at Accounting and Finance; furthermore, the contractor was being paid a fixed amount by the AF. A claim for \$3,100 has been submitted to the contractor for the overpayment. The employees are now being paid by the DAC office after the travel voucher has been computed by Accounting and Finance.

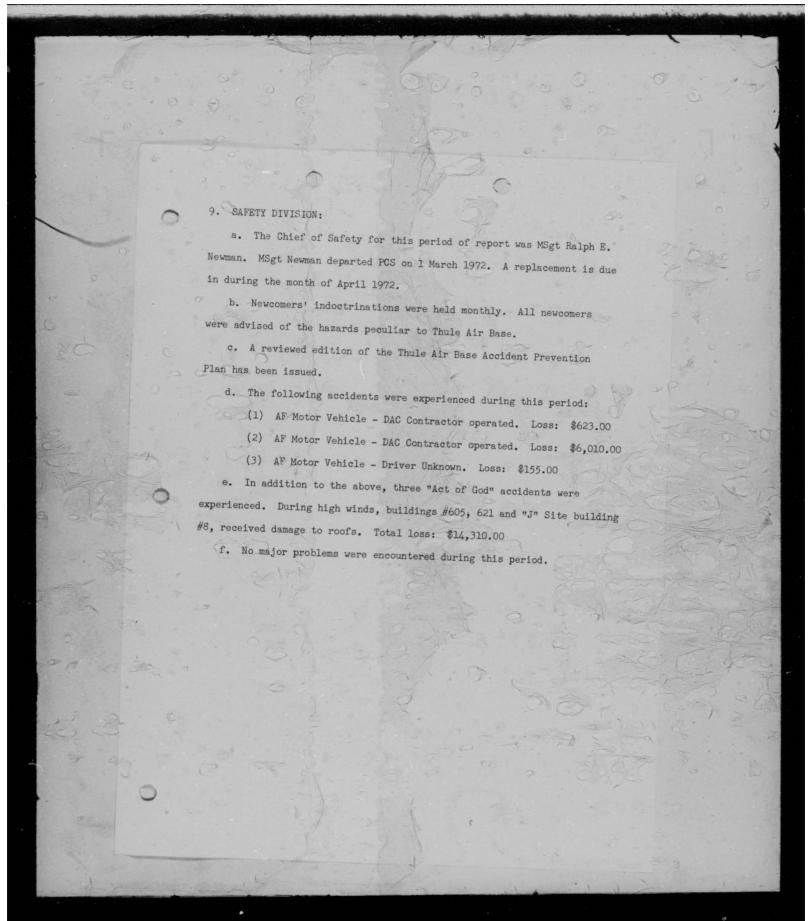


### 8. SPECIAL CERVICES DIVISION:

- a. During this quarter the Chief of Special Services was Captain John L. Holcomb.
- b. Function of Special Services: provide services, equipment, and organize and supervise programs for the health, morale and welfare of all military and civilian personnel of this station.
  - c. Major accomplishments and problem areas are as follows.
    - (1) Administrative: No major problems.
- (2) Photo Hobby Shop: Now has the facilities and capability for processing color film. Work has begun to establish facilities for processing 8MM movie film.
  - (3) Officers Open Mess: No major problems.
  - (4) NCO Open Mess: No major problems.
- (5) Recreation Center: During this period a Stereo Tape Center was installed in the Recreation Center, consisting of three stations.

  Master tapes of approximately three hundred records have been cut for patron use. A reception for the USO Show personnel was held in early March with approximately one hundred attendants. Pizza was served.
- (6) Swimming Pool: The swimming pool was reopened in early March after several weeks of inoperation due to lack of replacement parts for the filter system.
- (7) Consolidated Hobby Shop: During this period a Silversmith Shop was installed in which personnel can construct several different items of jewelry. A new Kiln was installed in the Ceramics Shop.
- (8) Recreation Services Supply: A disinterested inventory of Central Base Fund property was accomplished in early March.





### 10. SECURITY POLICE DIVISION:

- a. The new Chief, Security Police Division is Captain Dennis F.

  Poindexter. He was assigned 1 February 1972, replacing Keith R. Gronquist.
- b. The mission of the 4683 Air Base Group Security Police Division is to provide for priority resources at "J" Site and to maintain law and order on Thule Air Base. Additionally, to administer the detention facility as well as safeguarding classified information and material in the custody of military units and DOD contractors.
  - c. Specific Accomplishments:
- (1) AlC Winford C. Faires II, was selected as Base Airman of the Month for the month of January 1972.
- (2) AlC David J. Koenig was selected as Base Airman of the Month for the month of February 1972.
- (3) SSgt Ruffin, Nathaniel J., was selected as Headquarters Squadron Career NCO of the Month for March 1972. SSgt Ruffin was unable to compete in the Base competition due to emergency leave.
- d. There were no major problems encountered during this reporting period.

### 11. STAFF JUDGE ADVOCATE DIVISION:

a. Captain Charles E. Rains served as Staff Judge Advocate from 1 January 1972 - 31 March 1972.

b. The Staff Judge Advocate performs all duties required by law, executive order and regulation as Staff Judge Advocate to the Thule Air Base Commander, who exercises special court-martial jurisdiction for Thule and Sondrestrom Air Bases. He monitors the administration of military justice, including the convening of courts-martial, processing of Article 15, UCMJ actions, and related matters. He advises the Commanders, Thule and Sondrestrom Air Bases, their staff, and the Commanders of tenant organizations on legal policies and interpretation of laws, regulations, and directives in all phases of military affairs, civil law, procurement, taxation, contracts, claims, and board proceedings. Investigates and adjudicates or recommends disposition of claims for and against the government under the provisions of AFM 112-1. He also administers the Legal Assistance program in accordance with AFR 110-4.

c.			JAN	FEB	MAR
	GENERAL	CM	0	0	0
	SPECIAL	CM	0	0	0
	SUMMARY	CM	0	0	0
	ARTICLE	15	1	3	3

d. The accomplishments of this activity during this period were routine in nature.

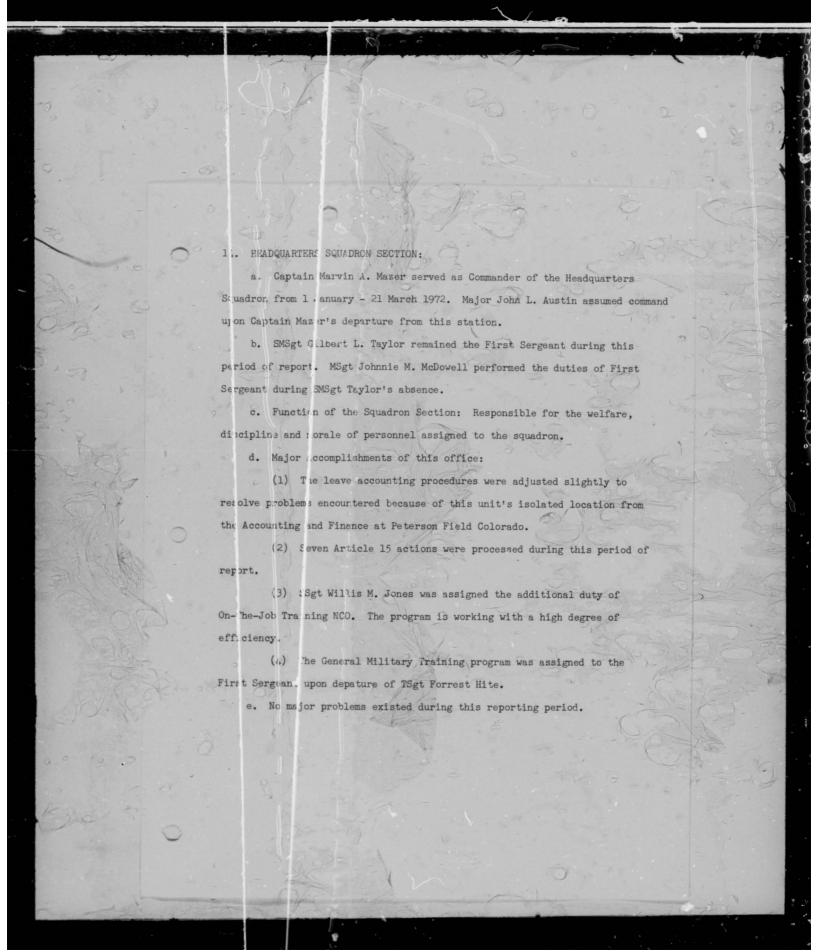
e. No major problems were encountered this period.

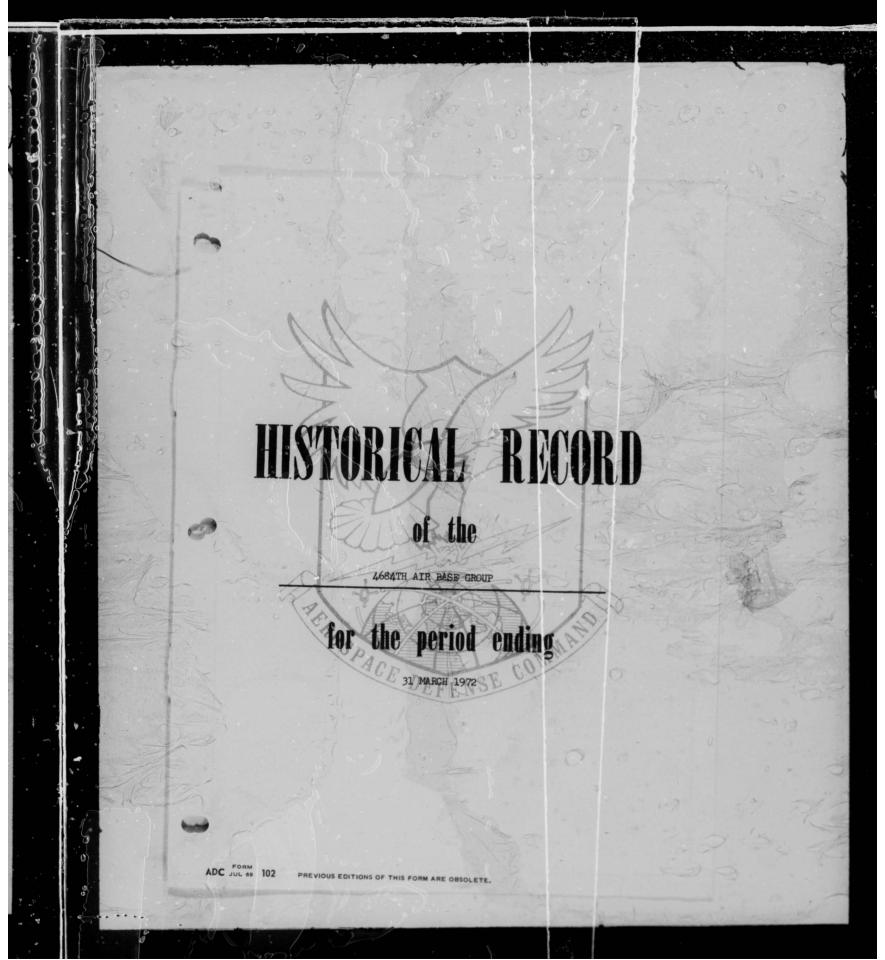
### 12. SERVICES DIVISION:

- a. Captain William S. Heaton served as the Chief of Services during this reporting period.
- b. Summary of functions of this division: Monitorship of Danish Arctic Contractors pertaining to services in housing, billeting, laundry, dry cleaning, and food services. Planning, organizing and coordinating Host-Tenant and Interservice Support Agreements and Memorandums of Understanding. Monitors annual site resupply.
  - c. Major Accomplishments:
    - (1) Housing and Billeting:
- (a) Total number of transient visitors, Officer and Civilian: 775; Enlisted: 673. Number of bednights: Officer and Civilian: 2,876; Enlisted: 1,442. The total services charge collected and deposited during this period: \$13,518.42.
- (b) Exercise Box Top I began 30 March 1972. Base Housing assigned quarters for 28 Officers and 85 Enlisted.
  - (2) Laundry and Dry Cleaning:
- (a) Plant production (pieces processed) bulk organizational laundry: 111,672; dry cleaning: 4,804. Individual laundry: 12,052; dry cleaning: 7,464.
- (b) During the reporting period, 90 dozen sheets and 20 dozen pillowcases were turned in to R&M.
- (c) The laundry and dry cleaning equipment has been in operation with few breakdowns from 1 January 31 March 1972. Lubrication and maintenance has been carried out in accordance with standard procedures. No discrepancies were noted.

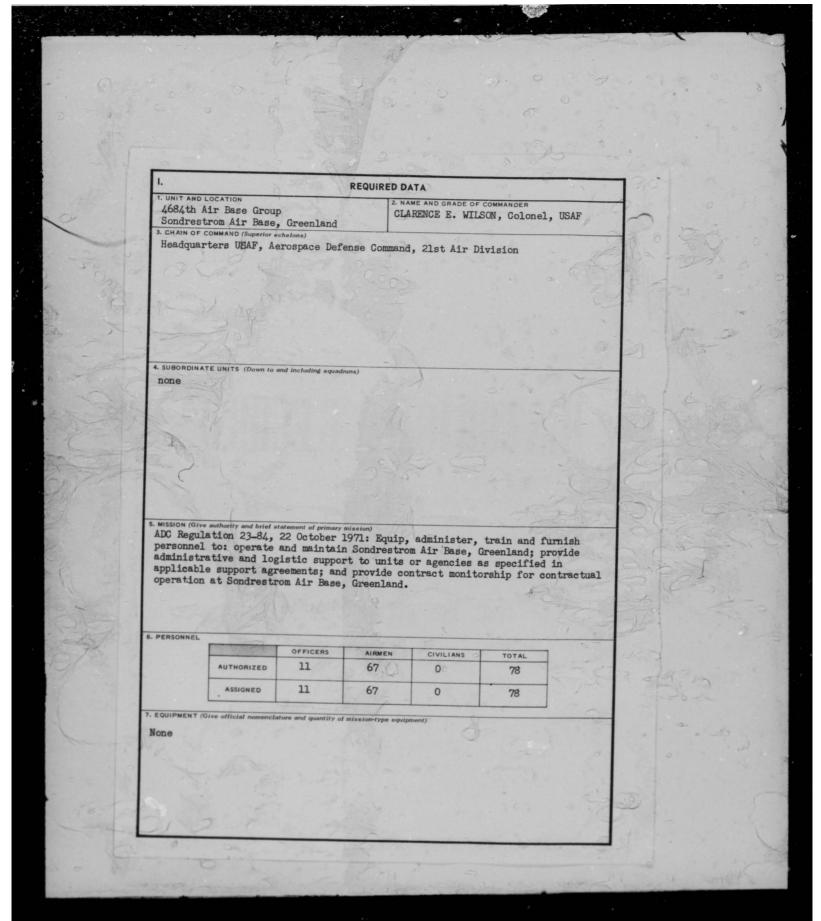
(a) Average number of personnel assigned: 70 (b) Dining Hall #2 prepared and served 235,112 meals during this period. In-flight meals were: 7,025. (c) The value of subsistence drawn from Commissary was: \$143,394. (d) Sanitation reports for the period showed overall "Excellent" though in a few instances "Satisfactory". (e) Equipment received this quarter: One rotating oven and one juice dispenser for Dining Hall #2. One mixing machine for "J" Site. (4) Commissary: (a) Total dollar value of subsistence received during this quarter: \$111,802. (b) Total dollar value of subsistence issued: \$196,372. (c) Outstanding orders as of 31 March 72: \$497,878. (d) Ending inventory as of 31 March 72: \$469,225. (5) R&M: (a) No sales this period. (b) No problems encountered. (6) Logistic Agreements: Host-Tenant Support and Interservice Agreements reviewed and revised during this reporting period: (a) National Ocean Survey. (b) OL-5. (c) 1983 Communications Squadron. (d) Post Office. (e) Alaskan Air Command. (7) Site Resupply: Exercise Box Top I began 30 March 72.

# INFORMATION DIVISION: a. During the period of report, Captain Daniel T. Davis served as Chief of the Information Office. b. Sgt John A. Huffman and AlC Robert E. Walker departed PCS. Neither were replaced, thus bringing OI manning level into line with UDL authorizations. AFRTS now is at an acceptable manning level. c. Major Accomplishments: (1) The Thule Times reverted into the 8x10 format again, but this time in four columns instead of the previous three columns. Using a new photographic process, the reporduction quality of the newspaper was greatly improved. (2) AFRTS conducted a comprehensive listener/viewer survey of all assigned personnel. (3) New audio control consoles were installed in both radio studios at AFRTS. (4) Work was completed on the new AFRTS production studio. (5) Maximum publicity was given to the POW/MIA "WEEK OF CONCERN". (6) Toward the end of the reporting period, two Norwegian newsmen arrived at Thule for a week's stay. d. There were no major problems during this period.





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This part should contain significant information relating to your unit's mission performance. Some basic subjects to include are: (1) operations and training; (2) changes to primary equipment such as radars, aircraft, etc.; (3) equipment performance; (4) facilities; (5) maintenance and supply problems; (6) personnel matters affecting the mission; (7) any other subjects bearing on mission performance. See ADC Supplement I to AFR 210-3 for additional guidance.

#### MATERIEL:

Resupply: DYE 4, Kulusuk, has experienced difficulty with resupply during this quarter due to severe weather conditions which often prevented aircraft from landing there. Six landings were made at the site during the quarter with the last landing on February 23. Since then, the 17th Tactical Airlift Squadron has made two LAPES drops to the site with sufficient provisions to tide personnel over until the weather broke, which occurred at the end of this reporting period.

Billeting: Funds had not been provided in FY 72 to support Project Better Living, an effort to procure additional furniture for dormitories. The funds requested then amounted to \$149,972.00. A new request has been submitted for

FY 73 under Project Volunteer in the amount of \$164,979.00. Transportation: The Maintenance and Transportation Section experienced

temporary difficulty in achieving its mission during the period January 15 through January 22 because of sickness. During this time, seven or eight persons were absent from work daily because of flu. During the last week of January, however, only one or two persons were absent for this reason.

This section has also had difficulty in keeping the water and the waste trucks running. The trucks are completely worn out and an inordinate amount of work has to be performed on them. Action has been initiated to have these trucks replaced sooner than scheduled.

In anticipation of summertime port activities, overhaul of diesel motors for

the LCM boats, cranes, bulldozers and trailers has been initiated.

### II OPERATIONS:

During this quarter there were 151 military aircraft landings, 343 civil aircraft landings and 33 contract carrier landings at Sondrestrom. Due to lack of aircraft assigned here, there were no flying hours allocated nor proficiency or instrument checks made during this period.

### III CIVIL ENGINEER:

Programming and Work Control: A total of 54 Work Requests (AF Form 332) were received and all but four have been processed. A total of 60 Work Orders and 196 Job Orders were prepared during the quarter. The updating of all facility jacket files was completed. An inspection was performed by the Auditor from Goose AB during March. A total of 926 service calls were processed.

Engineering and Construction: A total of 704 as-built drawings for 28 facilities have been completed.

Operations and Maintenance: A new scotch-lite machine was installed in Bldg 530. The overhaul of a compressor for the cold storage plant was completed. During the first month of the quarter, the water main that services Bldg 472 ruptured. Immediate action was taken by contract personnel to isolate the leak and restore water to the base. Also during the month of January, the main sewer line from Bldgs 385, 462, 466, 468, and 491 froze which caused the sewage to be pumped to the roof of Bodg 385. Immediate action was taken by contract personnel and the sewer line was thawed and afterwards all of the frozen sewage removed from the roof of Bldg 385.

#### COMMENTARY (Continued)

Fire Protection: During this quarter, the Fire Department responded to four aircraft emergencies, 57 fuel spills, seven smoke investigations, five false alarms, 2,491 fire inspections and five fire prevention indoctrination classes with 94 individuals attending.

### IV PERSONNEL:

Preparations were made for the implementation of the Greenland Feasibility Study, a manpower study done in 1970 to determine which functions should be carried out by Air Force personnel and which should be assigned to civilian contracts or eliminated. The Accounting and Finance Office was deactivated March 31 with loss of six military authorizations, including one of the two officers previously authorized. Curtailments and cancellations of inbound personnel have been requested as appropriate.

Under this same Study, Personnel and Command Unit Administration each have lost one military authorization, effective 1 July 1972. No manning action has

been necessary as yet.

Security Police Section investigated two serious incidents during the quarter: an attempted suicide and a death from natural causes. Casualty reporting for the latter incident was accomplished with minimal difficulty.

Colonel Clarence E. Wilson, base commander, applied for and was granted an extension of his tour at Sondrestrom for July 1972 to July 1973. Captain Maxine A. Shafer, chief of administration, arrived in January of

this quarter and was the first WAF to begin a tour of duty at this remote

The Social Actions Council was organized according to available guidance and additional instructions from the commander.

### V SPECIAL SERVICES:

The Special Services Division here received approval from 21st Air Division to operate the Base Bowling Alley under the Danish Artic Contract. A qualified Danish civilian began managing the Bowling Alley on February 15. It has been estimated that this change will save the Sondrestrom Central Base Fund a minimum of \$4,000.00 per year in part-time salary expenditures, according to Captain Joseph C. Justice, director of Special Services.

Reduction of military manning for the 2004th Communications Squadron may result in monetary problems for the Special Services Section. The 2004th will be reduced by approximately 100 men beginning in July. The reduction is expected to be completed by October. The special services director has estimated that the section will lose about \$2500.00 per year in funds because of this reduction in military strength. Even so, Special Services is obligated to provide recreation activities for the ITT and DAC people assigned here if feasible. Special Services may therefore be required to provide envices for as many people with reduction in funds. Various possibilities have been suggested as a solution to this problem, but no solution has been agreed upon as of this report. One method of compensation for this projected loss however, was began on March 31: Moonlight Bowling. The services director has decided to continue this program

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PREPARED BY (Typed name and grade of Historian)

GEORGE B. KUEHNE, Captain

APPROVED BY (Typed name and grade of Commander

CLARENCE E. WILSON, Colonel

ADC FORM 102, II COMMENTARY, continued

as a means of providing extra revenue. A summer league has also been planned at the bowling alley with this same objective in mind.

#### VT ACCOUNTING AND FINANCE:

On March 31, the accounting and finance office was deactivated. Preparations have been made for a disbursing agent to take its place. Under this arrangement, the Accounting and Finance Office at Peterson Field, Colo., will have become the principal office for all accounting functions as of April 1. Services within the Military Pay and Travel areas have not been altered due to this change.

During this quarter, the Fiscal Control Office attained first place in the 1971 command-wide competition for timely submission of all non-appropriated fund financial statements.

### VII ADMINISTRATION:

The USAF Auditor General Inspection Team from Goose Air Base visited Sondrestrom from February 29 through March 8. At the end of this reporting period, the report from the team had not yet been received.

### VIII CHAPLAIN PROGRAM:

The Catholic Chaplain departed Sondrestrom February 23 to serve at Keflavik, Iceland, as a result of an ADC command decision. Sondrestrom's Catholic religious needs will be partially fullfilled by the Chaplain from Thule AB once each month.

### IX ARMED FORCES RADIO AND TELEVISION:

Sergeant Joseph K. Hollingsworth was named winner of Category G in the Air Force Thomas Jefferson "What is an American?" contest. He has been invited to attend the awards banquet and Media Internship program in Washington, D.C., April 9 through 21. Discussion with technicians responsible for maintaining electronic

Discussion with technicians responsible for maintaining electronic equipment at the AFRTS facility revealed several problems. The wiring had been installed haphazardly when the original equipment was installed, apparently in haste to begin broadcasting again after the fire which destroyed the old station in 1965. Since that time, new equipment has been installed by extending that same wiring system. The technicians have begun to correct this where they can, but they may need help to do a thorough job.

After discussion with the Communications Maintenance Officer and the commander of the 2004th Comm Squadron, it was decided to wait until the FY-73 funding decisions regarding the AFRTS facility had been received. The Facility has requested funds for new equipment. If this equipment is funded, AFRTS will request qualified technicians from Television Audio Support Agency (TASA) to correct the problems at the time the new equipment is installed. If no funds are available for new equipment, TASA will be contacted immediately to attempt to arrange a date for corrective help by an engineer.

# HISTORICAL RECORD

of the

1784th Air Base Group

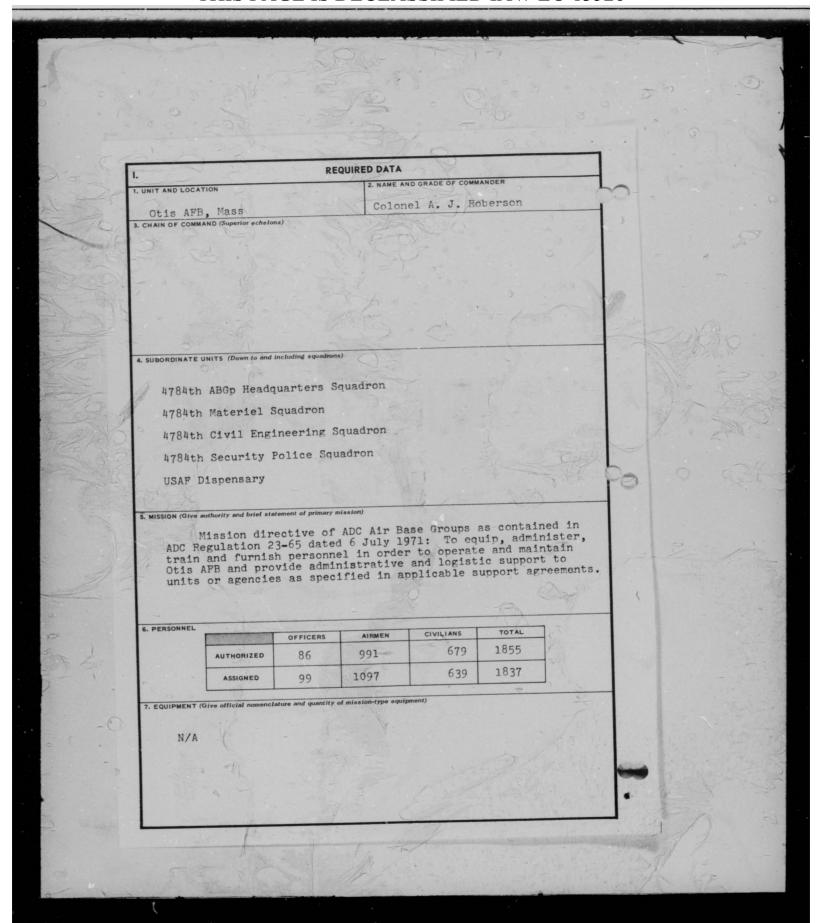
# for the period ending

31 March 1972

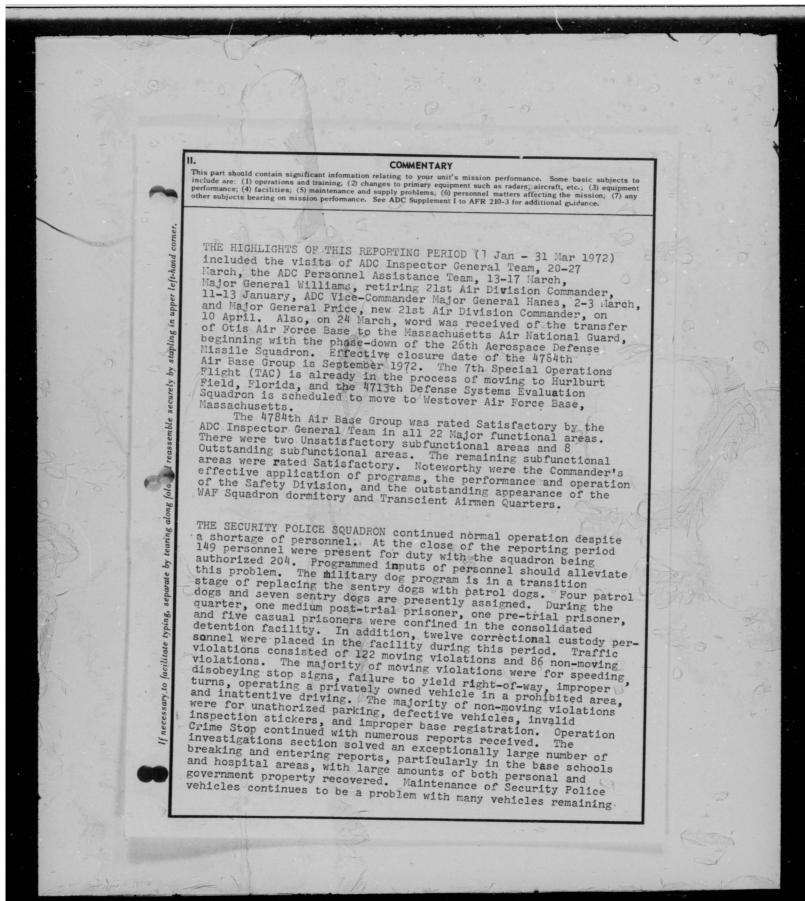
( 1 January - 31 March 1972 )

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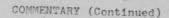
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# COMMENTARY (Continued) in the motor pool for long periods of time. The Security Police Squadron received an overall satisfactory rating during the ADC IG team visit. THE MATERIEL SQUADRON TRANSPORTATION BRANCH provided transportation support to visiting dignitaries and inspection teams. The Transportation Branch also provided the ADMET office with cost data for determining the cost of the base shuttle bus system versus the cost of operation by a commercial contractor. Traffic Management section reduced the average transit time of NORS items from 25.85 hours to 24.21 hours due to the fact that all NORS items are now taken directly to Logan International Airport, Boston, instead of flying them via Hyannis, Mass. Overtime payments to civilians performing handling and packaging of dangerous articles were eliminated by training three airmen in this specialty. In anticipation of transfer of assigned/attached units, the Traffic Management Office foresees a shortage of personnel in the freight and packing units. Assistance will be requested upon receipt of more detailed information regarding the transfer and deactivation activities. The Base Procurement Office negotiated, the architectural and engineering contracts for the repair and upgrading of airmen dormitories at eleven Air Force installations from North Carolina to Maine, including Otis AFB. The final price of \$80,000 represented a \$36,000 reduction in the contractor's original estimate due to intensive planning and negotiation by Base Procurement. Work commenced on 2 February 1972 and was 25% complete as of 15 March 1972. Another major project, the renovation of the Recreation Center, is nearing completion, The Base Supply Office conducted a study to determine the feasibility of converting a jet bulk fuel tank for storage of fuel oil. The proposed conversion of the base heating plant from coal to fuel oil operation precipitated the study. The Explosive Ordnance Disposal team received over 883 hours of training in accordance with Air Force and ADC directives, and a total of 3,328 non-duty man-hours were expended in maintaining a 24-hour EOD capability. Two on-base bomb threats were received during this period. bombs or devices were located. The Equipment Management Branch maintained a high data bank accuracy of 98.6%, while equipment in stock not in use continues to remain at a low of \$81,447. Total dollar value of equipment in use is \$30,897,444.56. Project Better Living was 90% complete at the close of the period. Active support of four radar sites in the 23rd (If more space is needed, continue on blank sheets, size 8 x 101/2, numbered and securely attached hereton) PREPARED BY (Typed name and grade of Historian) ROBERT R DREW, AIC, USAF PROVED BY (Typed name and grade of Commander) A. J. ROBERSON, Colonel, USAF



MO. A total of 26,217 supply requests were processed through the Demand Processing unit with 17,905 requests issued. The UNIVAC 1050-II Computer processed 115,107 transactions in January, 131,858 in February, and 162,552 in March. Otis AFB hosted a Radar Site Level Supply Training Course on 7-9 March 1972 with 20 officers and NCO's from supported radar sites attending.

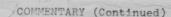
IN THE CIVIL ENGINEERING SQUADRON, maintenance and services were hindered by manpower shortages, although the housing maintenance section added five more personnel, resulting in somewhat improved service to family housing. Vehicular support for Civil Engineering activities has remained unsatisfactory. Excessive downtime and age of vehicles contribute to this problem. Inadequate funding has reduced the maintenance program to the level of breakdown

The Programs Division won the Utilities Conservation Program Award for top honors in ADC competition. A financial resource manager position was authorized for Programs, but no applicant has yet been selected. The Real Property Branch was the OPR for the ADC Leased Family Housing Conference held 15-16 March 1972. Operations Maintenance has effected the training of a keypunch operator and the addition of a part-time clerk in the Industrial Engineering Branch. The Engineering and Construction Branch contracted for custodial services in the airmen dormitories.

There were no reportable fires during the quarter. The Fire Department had 75 of 78 authorized personnel assigned. A total of 2908 fire inspections were performed, including 2 inspections at North Truro AFS. Fire Prevention Training was conducted for 777 personnel and total of 868 man-hours of training was provided to firefighters.

THE OPERATIONS AND TRAINING DIVISION of the Air Base Group handled a total of 2053 landings and takeoffs. A NOTAM systems evaluation was conducted by the Air Force Communications Service on 6 March 1972 with a rating of Satisfactory received. The Air Base Group conducted a self-evaluated Major Accident Response Exercise on 10 February 1972. On 23 February 1972 21st Air Division monitored an Attack Response Exercise and a Major Response Exercise, both of which were ratedSatisfactory. The Base Disaster Preparedness program was rated Satisfactory by the ADC IG Team. The Base Photo Lab processed 440 work orders.

One C-54M, one VT-29A, and one VT-29B were assigned to the 4784th Air Base Group as of the end of March. On 22 March 1972, by a ferry crew from Otis. The quarterly flying hour allocation was 290 hours for C-54 and 90 hours for T-29.



Two DEWLINE support missions were scheduled and flown on 1-10 Feb and 14-23 Mar.

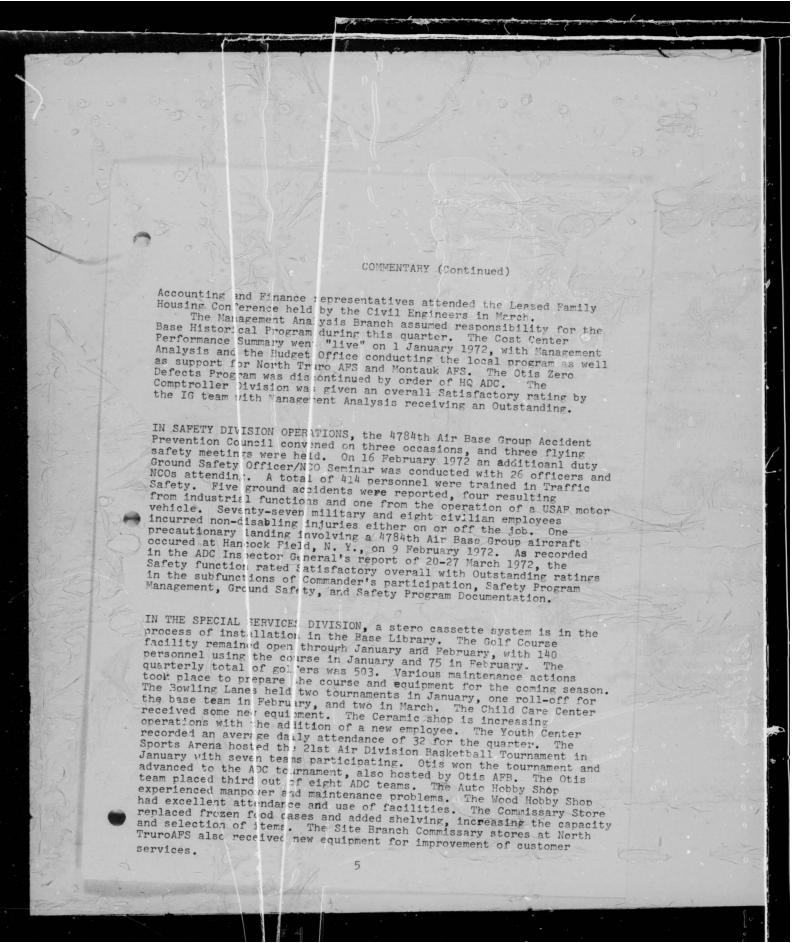
The Film Library conducted two projectionist classed with seven Air Force personnel and eight Coast Guard personnel attending. The Management School conducted three MCT 1, Part 1 courses (60 hours ea.), which included the newly added topics of race relations and equal opportunity.

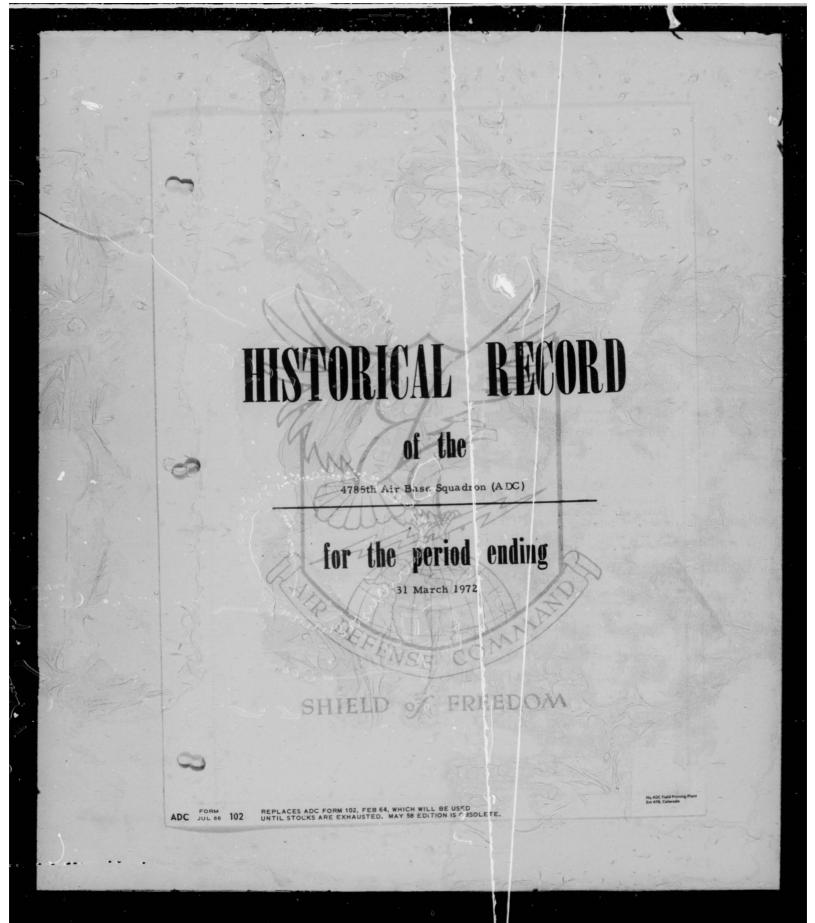
THE MILITARY PERSONNEL BRANCH processed 204 personnel in and 85 out during the quarter. Personnel shortages still exist in certain areas. The out-processing of 7th Special Operations Flight personnel has progressed smoothly due to early planning by CBPO personnel who have had previous experience with phase-out actions. Twenty-four personnel were discharged under the provisions of AFM 39-10, and 13 personnel were discharged under the provisions of AFM 39-12. This represents no significant increase or decrease over last quarter's statistics. Casualty Services reported 12 active cases at the close of the period, five MIA/POW and seven deceased. Eighty-eight awards were approved for military personnel. Participation in Annual records reviews reached 100% this quarter due to efforts of records section personnel. Reenlistment rates for January, February, and March were 10%, 22.2%, and 25%, respectively. total of 10 personnel of 54 eligible reenlisted. The Transition Office reported 39 personnel entering the Transition Program. Two early release programs, Palace Chase and Involuntary Discharge of First Term Airmen Denied Reenlistment, were instituted this quarter.

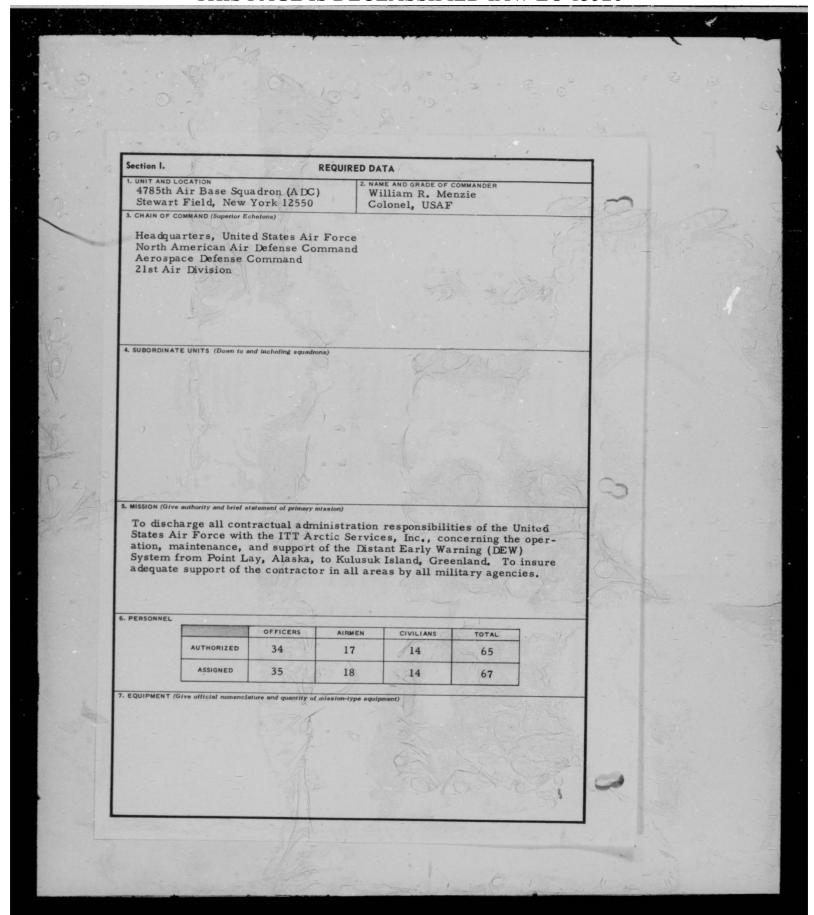
First Term Airmen Denied Reenlistment, were instituted this quarter.

The ADC Personnel Assistant Team (PAT) visited the Consolidated Base Personnel Office on 13-17 March 1972. Four sections received Satisfactory ratings and one section received an Excellent rating. Personnel Affairs was rated Excellent by the PAT, with Casualty Services, Awards and Decorations, and Family Services functions receiving Excellent ratings. The Data Control Section was rated Satisfactory overall with In and Out Processing improving from a previous Unsatisfactory rating to an Excellent rating.

IN THE COMPTROLLER DIVISION, the Accounting and Finance Office received word on March 2, 1972 that Otis AFB would participate in the JUMPS program beginning 1 September 1972. A new disbursing Officer assumed control of the Accounting and Finance Office on 1 February 1972. The USAF Auditor inspected the cash count related assets and documents comprising the Accounting and Finance Officer's Accountability as of 18 January 1972, with satisfactory results. The Accounting and Finance Branch received the Superior Performance Award certificate for the period 1 July - 31 Dec 1971.







Mr. Enright visited Alaskan Air Command for the purpose of viewing their drum crusher in action. Findings from this inspection will assist in the procurement of a crusher for the DEWLine.

Captain Martini was the civil engineering representative on the February Arctic Star staff assistance visit.

An oil spill contingency plan for DYE-1 and DYE-4 is being prepared by ASI in order to provide definite procedures for containment and collection of POL spills in coastal waters.

The O&M project for repair of BAR-M DLM floor (\$43, 470) was accepted and payment in full made to the contractor (ASI).

The heated auto storage facilities at FOX-3 and FOX-4 were physically completed but final inspection will not be performed until summer.

Major Smith was the civil engineering representative on the March Arctic Star staff assistance visit.

The FY 73 MCP program for sewage treatment and POL diking at all Alaska DEWLine stations has been approved by the Office of the Secretary of Defense and now goes to Congress for funding.

Option B, "Airfield Lighting," was added to the contract for FY 70 MCP. This option will locate airfield lighting controls in the heated auto storage facilities at BAR-4 and FOX-4.

The leased housing program for this organization was concluded with the cancellation of the lease at 57 Haight Drive, Vails Gate, NY on 20 March 72.

### COMMUNICATIONS & ELECTRONICS

DEWLine Visitation. The first quarter of calendar year 1972 exhibited moderate visitation of a routine nature. Approximately 120 visit requests were approved by this office for visits to the Alaskan, Canadian and Greenland DEWLine. Some of the organizations supported were:

Department of Defense agencies
Canadian Forces
U.S. and Canadian Government organizations
U.S. and Canadian Research organizations
Danish Arctic Contractors
RCMP
Anglican Church of Canada
U.S. and Canadian commercial concerns
Various universities

#### Staff Visitation

Two Arctic Star staff visits were conducted during the quarter. The 1 through 10 February trip provided an opportunity for 4785th AB Sq and DEW Line contractor personnel to discuss active projects with Line personnel. This trip also served as orientation to those who had not visited the Arctic before.

The 14 through 23 March trip was a VIP trip with Colonel W. R. Menzie, Commander, 4785th AB Sq; and Mr. R. E. Bowman, Manager, Logistics, ITT/ASI on board. The main purpose of the trip was the annual COMSEC inspection. Several other projects including Polar Cap III, a radar project at FOX-M, were observed.

#### **CEM Projects**

The first volumes of the DEW Line Instructions for the AN/FSA-14 and AN/FSA-26 consoles were submitted by the contractor to the 4785th during the quarter. The contents of these volumes were approved. Work continued on the remainder of the documents throughout the quarter.

The update of the DEWLine portion of the ECAC data file continued this quarter. The expected completion date for the update is still in the second quarter of CY 1972.

This office is working with the DEWLine contractor to determine whether or not Cushman CE-21/23A spectrum analyzing equipment would be valuable on the DEWLine. Inquiries were made into using the Maintenance Evaluation Program (AFR 66-8) for this purpose.

Efforts to implement the contractor's plan to replace critical test equipment with newer state-of-the-art items were continued this quarter.

Requests for support and funding went out to concerned air materiel areas.

A joint Canadian-USAF meeting was held at Stewart Field to coordinate Canadian National Telecommunications (CNT) expansion plans with support available from the USAF. Personnel from the 4785th, ITT/ASI and CNT were in attendance.

Preliminary information on the feasibility of providing a 10 KHz program channel from Sondrestrom to DYE-4 was provided to Hq ADC. Two possible circuit configurations with a budget estimate of \$25,000 were included in the information.

A scheme was initiated to remove the 487L antenna and EMP suppressor from the deactivated SAGE building at Stewart. This antenna will be reinstalled at Hancock Field. Present plans call for a 15 May 72 removal date.

Activity on Polar Cap III continued throughout the quarter. Meetings were held to discuss construction problems and action was initiated to provide communications for the facility.

Additional changes to 4785th AB Sq Regulation 55-1, Atch 1, Station Evaluation Checklist Report, were received during the quarter. The attachment is scheduled for publication in late April 1972.

Soundproofing enclosures to reduce the noise level in the DEWLine data centers were shipped from the vendor. The equipment will be tested at CAM-M to determine its effectiveness.

The first printout of the PCSP in the new format was received during the quarter. Since all remarks cards were dropped in the conversion from the old format, the contractor was requested to initiate a 2-ADC-V24 report to reinstate necessary remarks.

### ADMINISTRATIVE CONTRACTING OFFICE

FY-73/74/75 DEWLine O&M Contract. Step 1 of the two-step procurement, technical proposal evaluation, was completed in February. Both ITT, Arctic Services, Inc. (ASI) and the Radio Corporation of America (RCA) were found to be qualified to perform the O&M functions of the DEWLine. A request for price proposal was issued to both potential contractors on 1 March (step 11) by Hq ADC (LGPSA). A review of the forthcoming proposals will be accomplished next quarter, resulting in the award of a contract for the next three-year period.

DD 1594 close-out action form was signed off by the PCO, thus closing out DEWLine O&M Contract AF04(606)-15943 (FY-67).

All required actions to close out the FY-68 DEWLine O&M contract (FO4606-67-C-1425) have been taken from initiation of audit through payment of final bureau voucher. Upon receipt of copy of final payment voucher from the disbursing office, action will be taken to remove excess funding balances from contract and preparation of a DD 1594 close-out action form. Final closeout date for all required actions is on or about 31 May 1972.

The FY-69 DEWLine contract for all intents and purposes is physically complete. Minor MCP deficiency corrections are practically complete. Submission of the final FPIF billing is expected prior to 30 June 1972. DCAA is currently involved in reviewing and validating accrued vacation expense which appears allocable to this contract, although paid out under the FY-70 FP DEWLine contract. Upon resolution of this item and subsequent submission of the final billing, action will be taken to request final audit review action by DCAA.

Danish Arctic Contractors, Inc., Contract F30665-72-C-0002 for the Life Extension of DYE-3 was negotiated and issued during this time period. This contract was issued by the PCO at 21st Air Division and was forwarded to this office for contract administration. Actions have been taken to coordinate required support needed by DAC to implement its construction schedule. Such support includes Government-furnished equipment, furnishing of food and lodging, airlift of material, etc.

Two CY-72 sealift contracts were issued during this time period: Northern Transportation Co., Ltd, Contract F05604-72-C-0001 and Canadian Commercial Corp Contract F05604-72-C-0003.

The final billing has been received relating to the CY-71 sealift contract (Canadian Commercial Corp Contract FO5604-71-C-0003). Action is being taken to validate an overrun in the approximate magnitude of \$326, 808.60 (Canadian). It appears that excessive ship charter and insurance premium expense factors have contributed to this final unsatisfactory cost position. Necessary requests for additional funding are being considered.

Lt Col John C. Zotz, Administrative Contracting Officer and Deputy for Procurement; and Captain Harvey D. Mullis II, Procurement Officer, left this organization during this quarter.

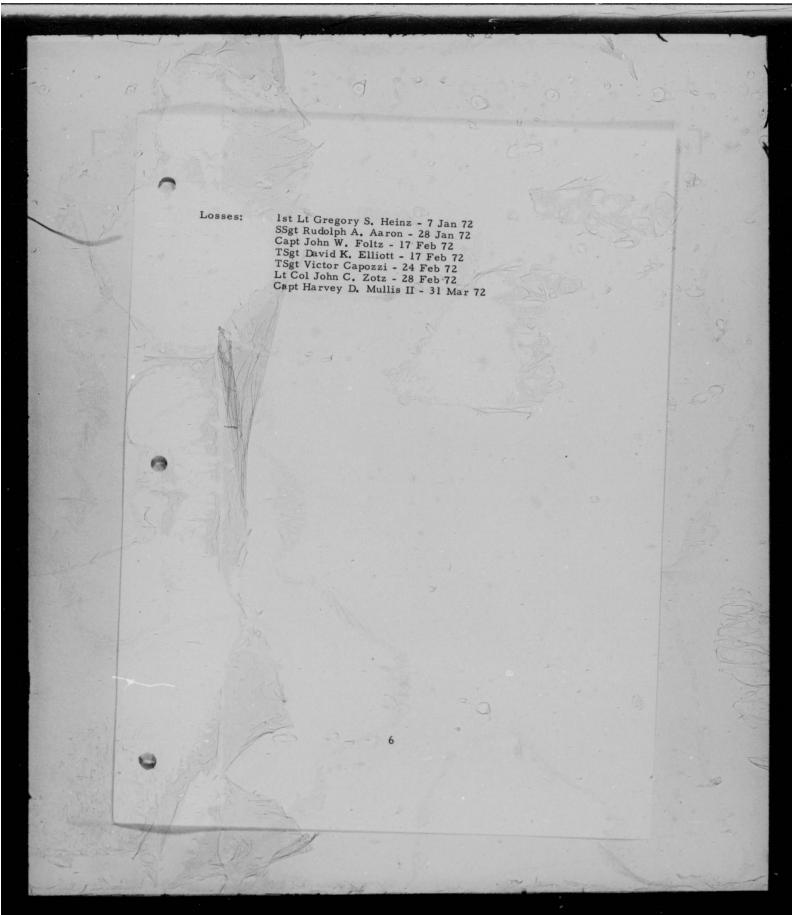
Lt Col Dale A. Johnston arrived to replace Lt Col John C. Zotz.

Two meetings were held with Nordair, 6 January and 13 March. Two items were the ACO disapproved bills—Nordair accidents and DC-3 substitution, were finalized to close out FY-71 contract. FY-73 airlift request for proposals were reviewed and comments forwarded to MAC.

#### PERSONNEL

Gains:

Capt Harold A. Paraghamian - 9 Jan 72 Capt Francisco A. Muniz - 27 Feb 72 2d Lt James C. Harden - 27 Feb 72 1st Lt Robert T. Hill - 28 Feb 72 SSgt Charles F. Henley - 1 Mar 72 2d Lt John T. Guinn - 16 Mar 72 TSgt Bobby G. Barnett - 19 Mar 72 Lt Col Dale A. Johnston - 22 Mar 72 2d Lt Robert R. Bacon - 24 Mar 72 Maj Melvin P. Edwards - 29 Mar 72



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#### COMMENTARY

(See ADC Supplement I to AFR 210-3 for additional guidance) PART A. This part should contain significant information relating to your unit's mission performance. Some basic subjects to include are: (1) operations and training; (2) changes in primary equipment such as radars, aircraft, etc.; (3) equipment performance; (4) facilities; (5) maintenance and supply problems; (6) personnel matters affecting the mission; (7) any other subjects bearing on mission performance.

#### MATERIEL

Materiel activities of historical note during the period 1 January through 31 March 1972 are as follows:

During subject period the supply section acquired \$3,800 worth of computer management products.

Captain Joseph A. Garcia represented LGS on the Arctic Star trip of 1-10

For his winning entry in the Freedoms Foundation yearly contest, an essay titled "What is an American", Captain Garcia received an award of \$100 and a George

The Cool Barge/Pacer Alaska Pre-Sealift Conference was held 14-15 March 72 at the Naval Supply Depot, Pier 91, Seattle, Washington. 1Lt William J. Weilemann attended from the Transportation Section.

2d Lt John T. Guinn arrived on station 16 March 1972. He was recently commissioned through the ROTC program at Tennessee State and will take on duties of Assistant Transportation Officer.

#### COMPTROLLER

Effective with the close of business 31 March, the Accounting function was deactivated. Both UDL positions were also deleted at that time. Accounting responsibility has been assumed by the 4600th AB Wing, Ent AFB.

In March, MSgt Runyan attended meetings and training sessions in connection with the conversion of supply accounting to the Honeywell computer system and conversion of all accounting records to the B3500 computer system. Representatives of Sondrestrom and Thule were also present at the ADC Headquarters for these meetings.

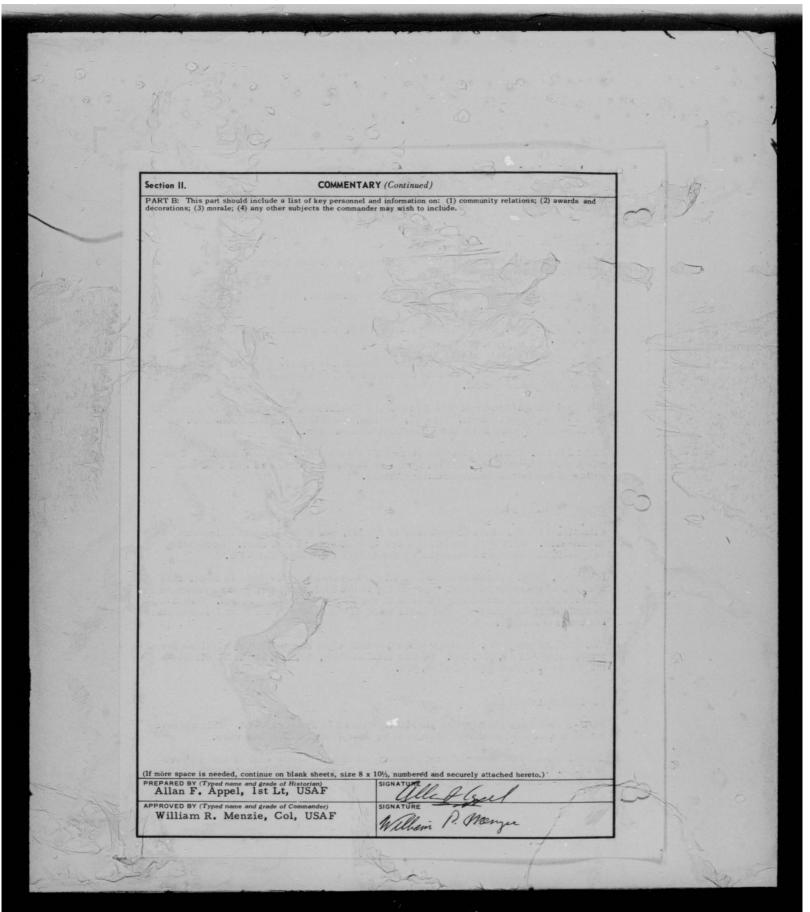
The RECON program, through March, totals eight individual submissions for a total savings of \$1,855,500. Of this total amount, \$1,149,000 is applicable to the FY 72 program goal of \$148,800.

#### CIVIL ENGINEERING

POW-3 DEWLine station was physically closed 21 January 1972. This closure marks the second auxiliary station to be deactivated within one year.

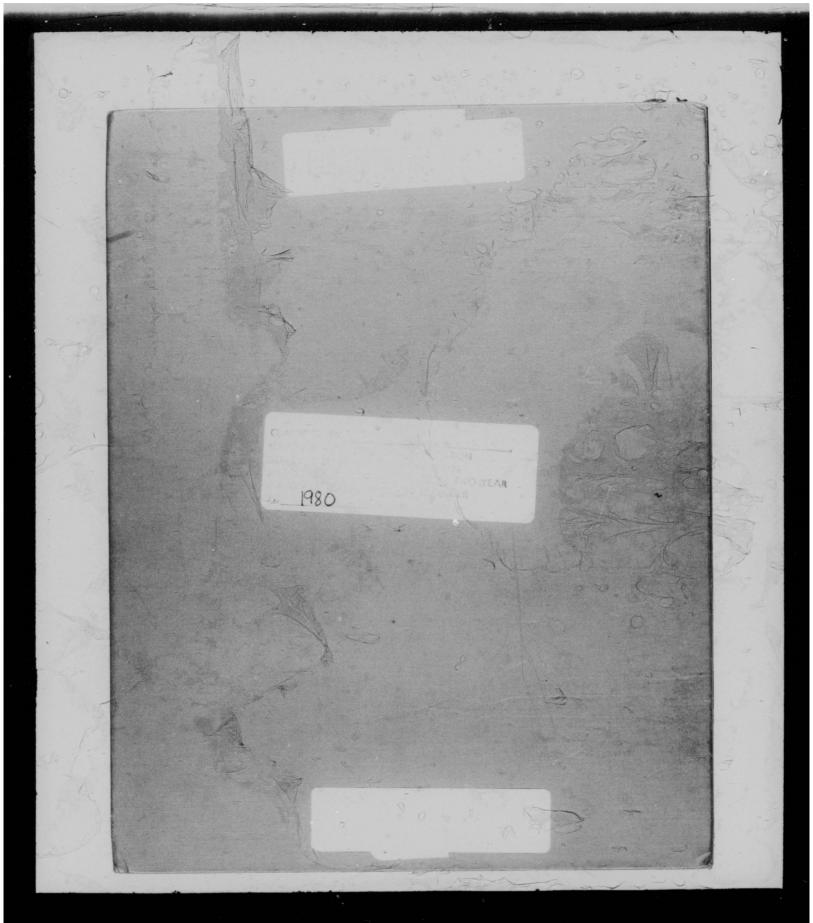
The Alaskan Air Command real property at Point Barrow will be turned over to the U.S. Navy on 1 July 1972. The Navy will now provide support to POW-M per Host-Tenant Support Agreement.

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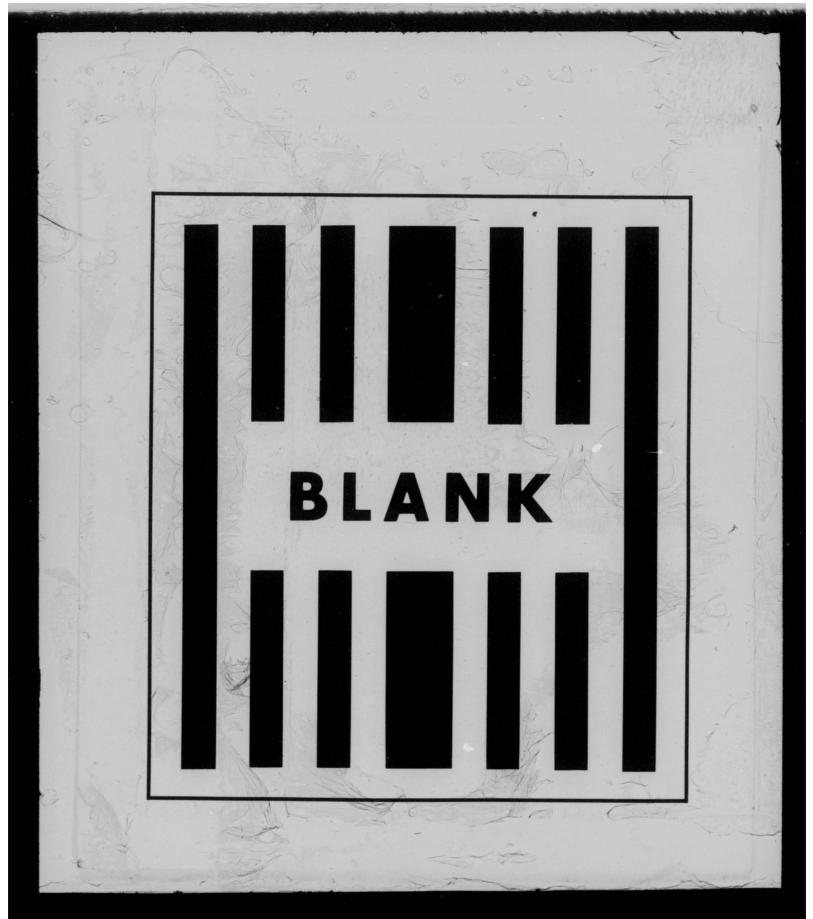


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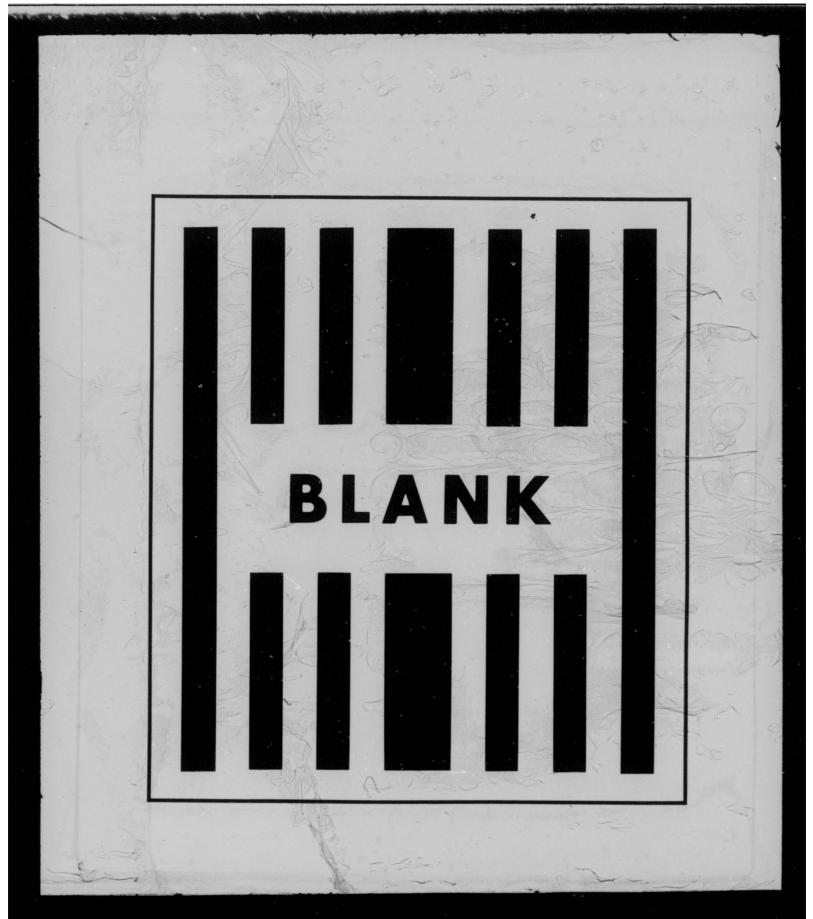
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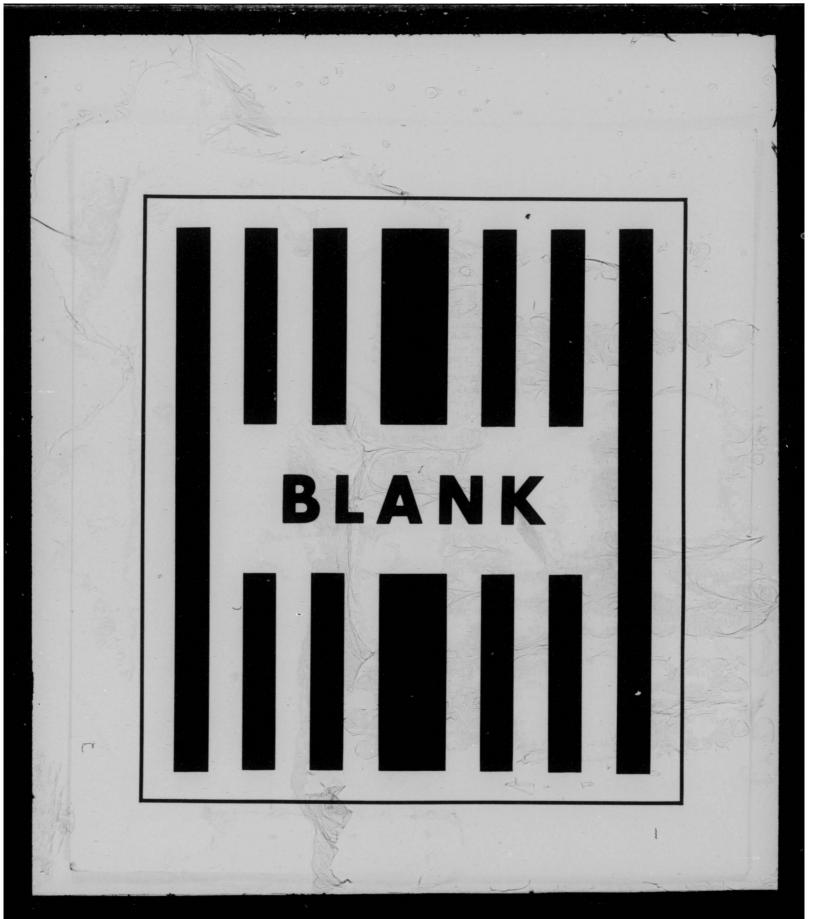
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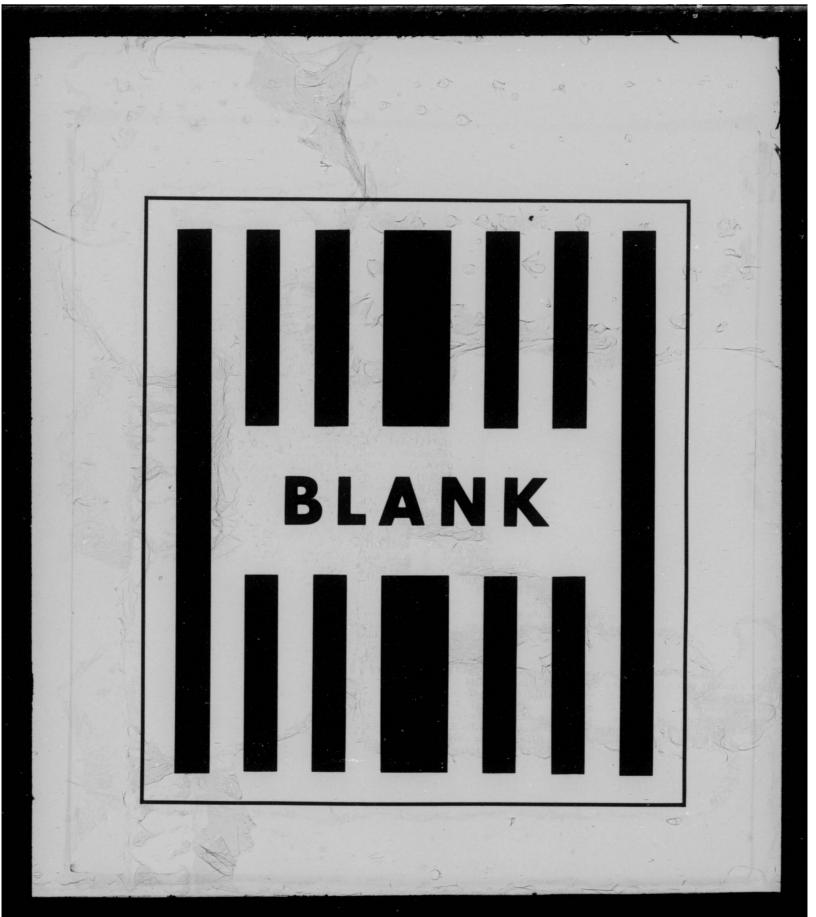
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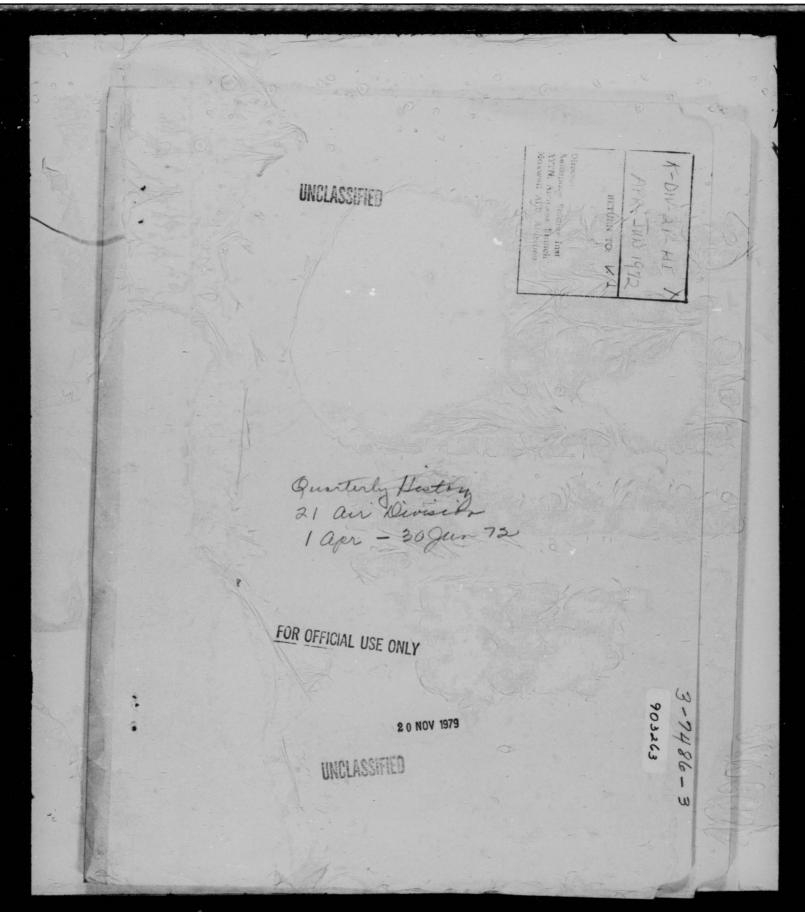
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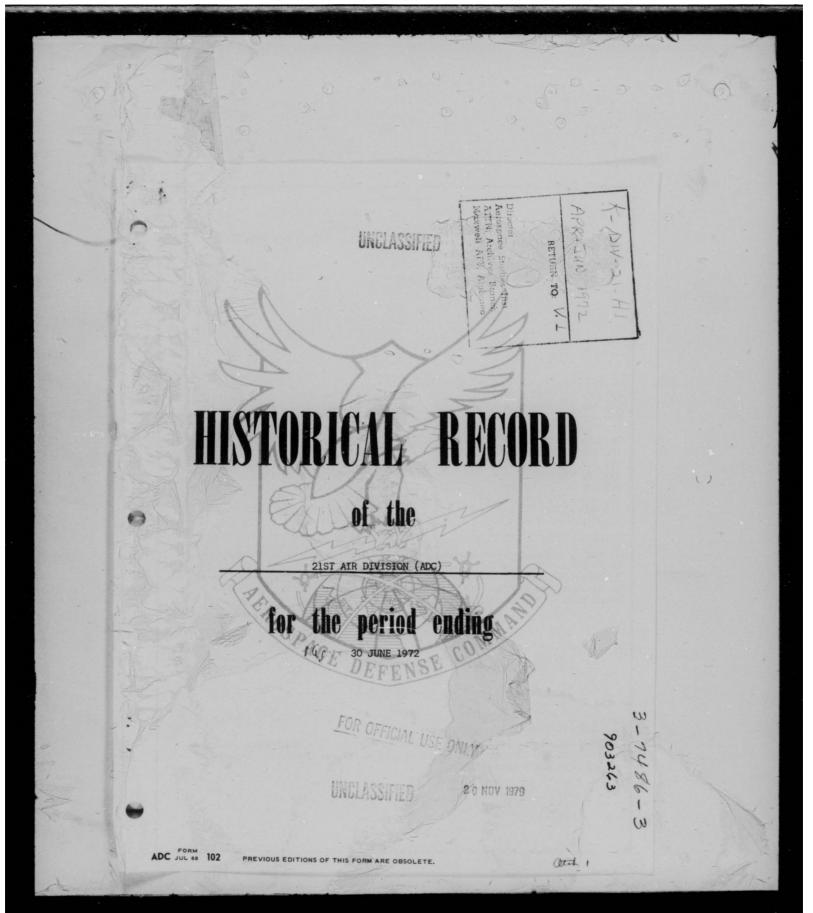
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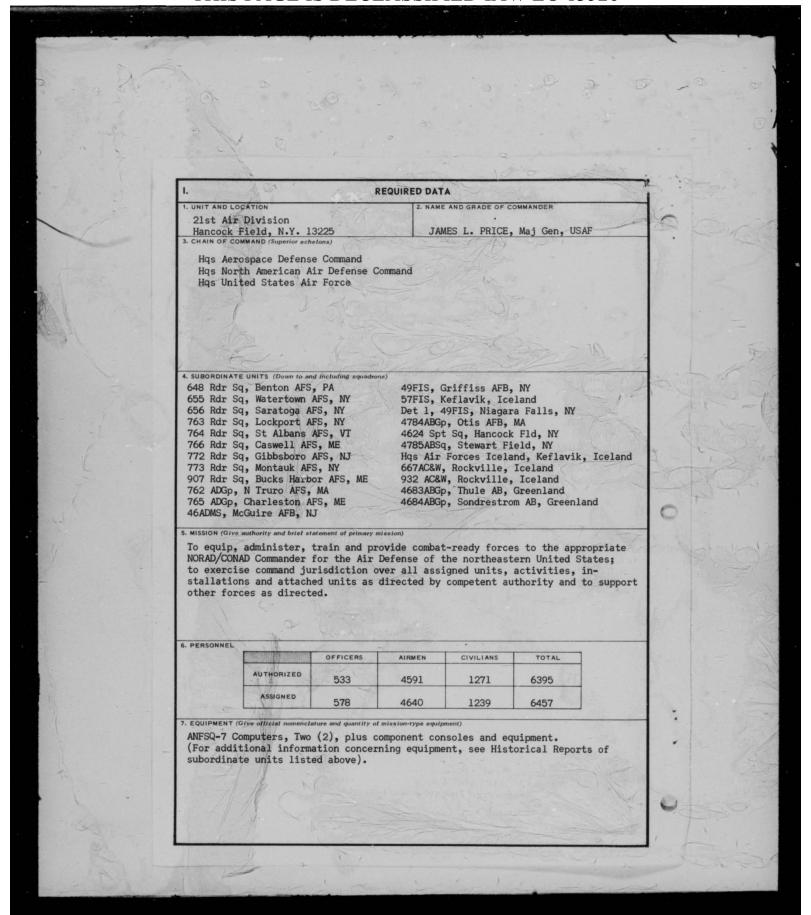


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# I. COMMAND AND CONTROL Personnel Changes

#### New Division Chief of Staff

Two key personnel changes in the 21st Air Division staff occurred during May. Coming in as the new Chief of Staff was Colonel Donald E. Ewing and as Deputy Chief of Staff for Operations and Training was Colonel Oscar Bayer.

Prior to his assignment to the 21st, Colonel Ewing was Vice Wing Commander of the 552nd AEW&C Wing at McClellan AFB, California. A 29-year Air Force veteran, the Colonel has flown 20 different aircraft, from the B-17 through the AT-7 to the C-130. Colonel Ewing replaced Colonel Charles Bergeson in the post.

#### Change of Command Actions

There were two command changes at subordinate units during this reporting period.

Lt Col James W. Vorhies, former Chief of Maintenance of the 319th FIS, Malmstrom AFB, Montana, assumed command of the 49FIS, Griffiss AFB, New York, from Colonel Douglas Brenner on June 30, 1972.

Distinguished guests attending the ceremony included Maj Gen

James L. Price, Division Commander, Major General Franklin A. Nichols

(USAF Ret), and local civic and community leaders. The ceremony was

highlighted by a flyover of F-106 aircraft of the 49FIS.

In another action, Major Larry King replaced retiring Major Robert Hall as Commander of the 763rd Radar Squadron, Lockport AFS, New York, on April 20, 1972. General Price presided over the ceremony.

Prior to assuming command of the Lockport site, Major King commanded the 26th Air Defense Missile Squadron, Otis AFB, Massachusetts until its recent closure.

#### II. OPERATIONS

Control Center

#### Manning

Control Center manning decreased by 19 personnel during this reporting period. The current manning totals are:

	Authorized	Assigned
Officers	64	56
Enlisted	162	126
Total	226	182

#### Intercepts

Control Center Intercept Directors accomplished 3,500 live intercepts, 4,184 simulated intercepts and 1,633 BOMARC intercepts during the quarter for a total of 9,317 intercepts.

#### Exercises

Six Fertile Gain exercises and one Fertile Indian simulated Regionlevel exercise were used to develop individual and crew proficiency in Aerospace Defense techniques during the period of April through June.

The Control Center also participated in four live exercises, three
Fertile Keynotes and one Fertile Brave, locally developed to train
personnel in Level IV and Level V procedures. Amalgam Hunt and Amalgam
Fairplay 72-4 simulated NORAD-wide exercises, were conducted to train
personnel in all aspects of Aerospace Defense techniques.

The Control Center also provided control for four practice ORIs, the 132nd FIS on April 8, the 134th on May 23, May 27 and June 3, and an ORI for the 132nd FIS on May 6. The positioning results were satisfactory.

#### William Tell Competition

Trials for the William Tell competition were held on May 4 for the 49th FIS, May 5 for the 134th FIS and May 9 for the 132nd FIS.

The 132nd FIS shot a perfect round for a total of 1,800 points and is scheduled to be in the William Tell competition in September at Tyndall AFB, Florida, along with the 134th.

#### Exercise and Analysis

Live exercises scheduled during the quarter were as follows:

Fertile Keynote 72-12

April 8

Snowtime 72-5

April 19 (cancelled)

Fertile Keynote 72-13

May 6

Fertile Brave 72-4

May 24

Fertile Keynote 72-14

June 7

Amalgam Arrow

June 22

Simulated exercises scheduled during the quarter were as follows:

Amazon Hunt 72-3

April 12

Fertile Indian 72-8

May 10

Fairplay 72-4

June 24-30

Communications and Electronics

On June 6, 1972, a request was submitted to Headquarters Aerospace Defense Command for approval to obtain an AN/GSA-33 group amplifier to support the ADOLA ground to air communications system at Rockville, Iceland. This amplifier group is used to drive speakers off the MICRO-WAVE system. The system has an ALTEC 453A telephone repeater to drive a set of speakers which is designed for a low voltage application. The amplifiers are not adequate to drive speakers without adding excessive distortion to the signal. Required operational date for this installation is the third quarter of FY 73.

Rockville is currently using an AN/GSA-33 on loan from the Navy.

During this quarter, two LRRs, Saratoga AFS, New York, and North
Truro AFS, Massachusetts, commissioned their AIMS/Common Digitizers.
Two more sites, Caswell AFS and Benton AFS, are due to receive this
equipment and are programmed for commissioning during August.

Aircraft Transfers

Support aircraft transfers affecting the 21st Air Division during this reporting period were:

- (1) T29 #500188 was transferred from the 4784th ABGp to the 102nd Ftr Gp (ANG) on June 9.
- (2) C54 #449044 was transferred from the 4784th ABGp to ATC on June 23.
- (3) T29 #515137 was transferred from the 4784ABGp to 4789ABGp

Aid to Flood Victims

During the recent flooding of New York and Pennsylvania, the Air Force pitched in to assist in rescue efforts and aid in evacuations, shelter, supply and communications.

The heavy rains due to Hurricane Agnes caused severe flooding of northern Pennsylvania and southern New York. Hardest hit were the cities of Elmira and Corning, New York, Wilkes Barre, Pennsylvania and their surrounding areas.

In Pennsylvania, the Susquehanna River reached a height of more than 40 feet in the Scranton Wilkes-Barre area. Pennsylvania's only active Air Force unit, the 648th Radar Squadron at Benton AFS, was quick to step in and offer their help.

During the crisis, telephone communications with the heavily populated Wilkes-Barre area were completely lost and Benton became the focal point for information. Through the Benton switchboard, information on flood conditions was disseminated to anxious relatives, friends and news sources. Intermittent weather reports were received from the

21st Air Division and relayed for broadcast on local radio stations.

Two citizen band radios were brought in and put to use for transmitting messages when telephone lines became too congested. Military families were evacuated to the base and housed in base quarters. Civilians were given supplies including cots, mattresses and blankets. Site personnel also made emergency pick-ups and deliveries of medical supplies to stricken areas. Throughout the crisis, civilian authorities and the military combined forces in an effort to combat the rising waters.

In New York, the badly hit Southern Tier cities of Elmira and Corning were inundated with volunteers after the water receded. Air Force volunteers from Hancock Field trucked donated supplies, food and clothing to the flood area during the first crucial days.

In addition, money was collected for flood relief at Hancock. The money was turned over to the Red Cross fund drive.

At the same time, Lake Oneida spilled over its banks and heavily damaged the shore area in Cicero, New York. Hancock Field personnel and vehicles helped evacuate residents and aided flood control work.

III. PERSONNET.

Reductions in Force

As a result of the reorganization and realignment of the 21st Air Division (see History of the 21st Air Division, 1 Jan 1972 - 31 March 1972), civilian authorizations in the Division were reduced by 20 spaces effective June 30.

The Supply and Services function, Maintenance Staff, Civil Engineering and Procurement function at Hancock Field, New York and Stewart Field,

New York, were absorbed by Headquarters ADC.

Reduction-in-force procedures were used in the transfer of spaces to ADC. Seven employees declined offers to transfer with their functions. Six of the seven employees accepted offers to fill vacancies within the Division group and support functions. One employee declined placement assistance and was separated.

Division Airman of the Year Award

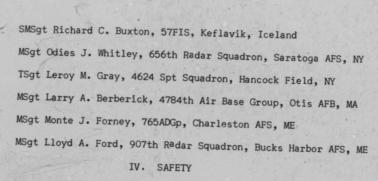
SMSgt Billy Grant, NCOIC, Processing Section, CBPO, Hancock Field, New York was selected as the 21st Air Division Outstanding Airman of the Year for 1971 during April of this year.

Sergeant Grant was chosen for the honor over nominees from ten other Division units. He was selected on the basis of his duty performance, community and base activities, appearance and bearing and service to his unit and the Air Force.

As Airman of the Year, Sergeant Grant received an Air Force Commendation Medal for outstanding achievement and a \$100 savings bond. His unit of assignment also presented him with several awards.

Other nominees to the Division were:

SSgt Francis X. Dean, 772 Radar Squadron, Gibbsboro AFS, NJ
MSgt Lowell T. Grant, 655th Radar Squadron, Watertown AFS, NY
AlC Paul E. Gustafson, 26ADMS, Otis AFB, MA
SSgt Robert T. Locastro, 49FIS, Griffiss AFB, NY



The Safety Office consisted of three divisions: Flight, Missile/ Nuclear and Ground. During this period, the office was manned by the following personnel:

Lt Col Richard W. Holm, Chief of Safety

Major Robert Atwater, Flight Safety Officer

Capt Joseph E. Custis, Missile Safety Officer

Capt Gerald L. Isaac, Nuclear Safety Officer

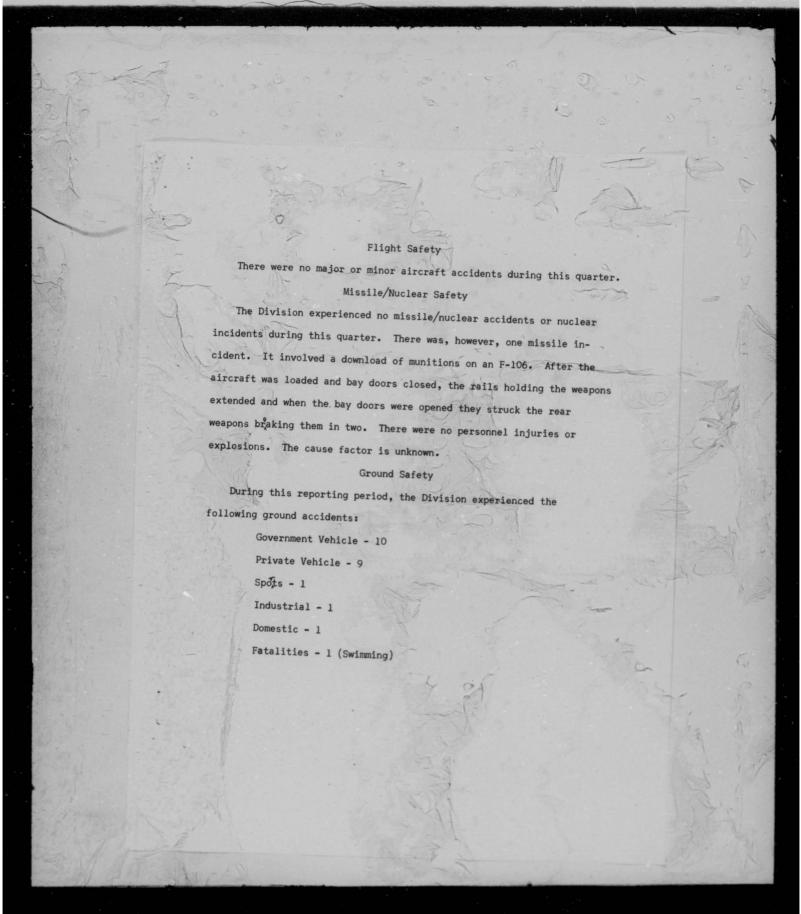
Mr. Carl F. Pommer, GS-12, Ground Safety Officer

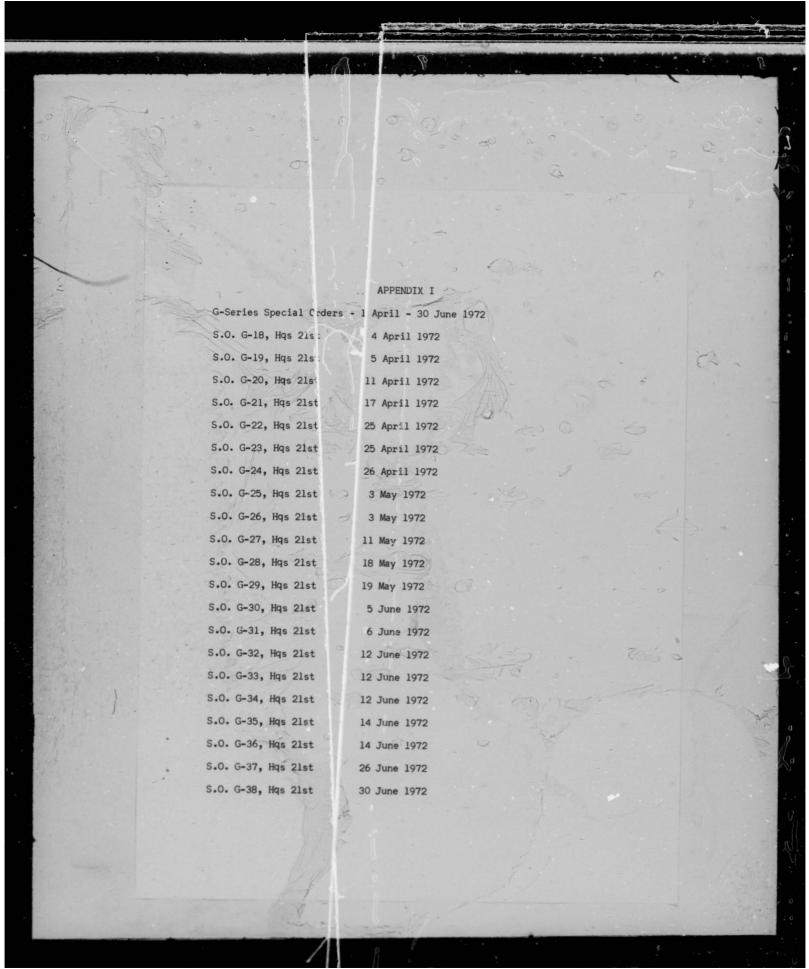
MSgt Stanley R. Bates, Safety Superintendent

TSgt James H. Bowie, Traffic Safety Education Instructor

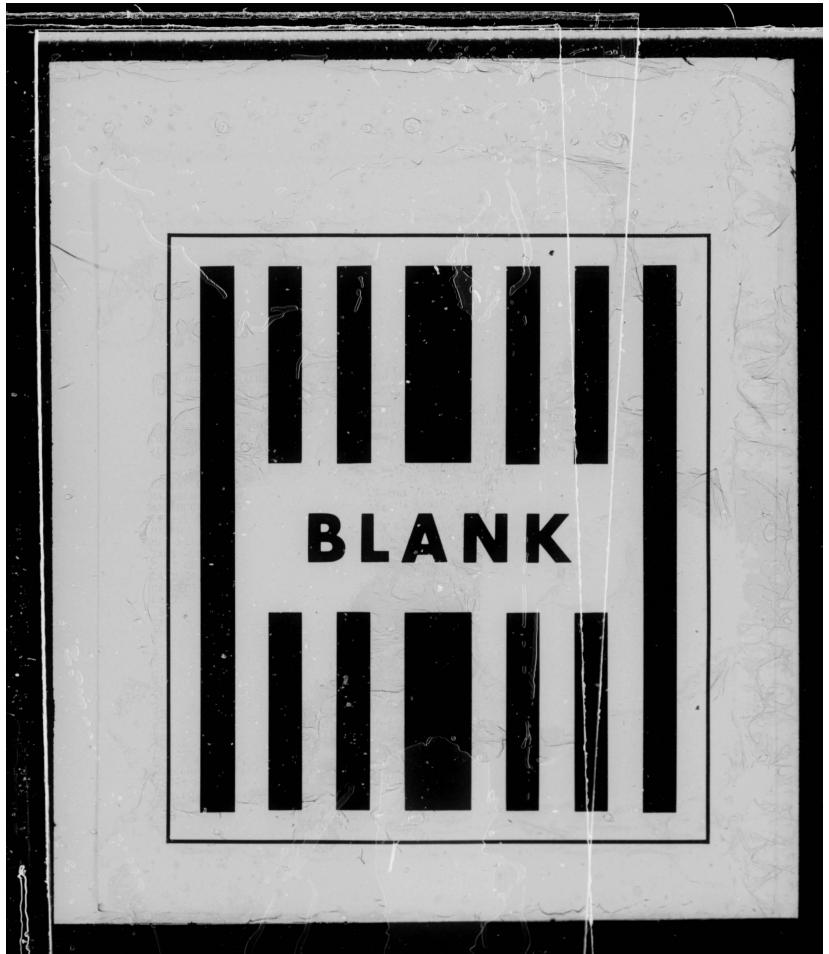
Major Atwater arrived June 26 to replace Major John McMahon as

Flight Safety Officer. Captain Isaac arrived on April 19 to fill the authorized X4625A positions.

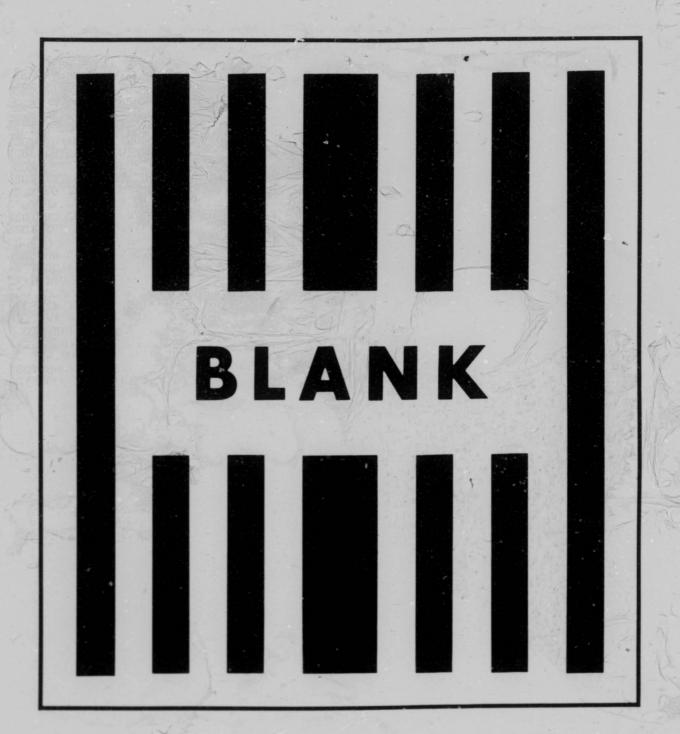




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