

ABBREVIATED JOINT MESSAGEFORM
and/or CONTINUATION SHEET

PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE
ACTION ROUTINE	Lt Col Barnes	Capt Bayles	4891
INFO			

1. THE TEST PLAN STIPULATION THAT ONLY PRIORITY ONE OR SPECIAL EMPHASIS TARGETS THAT HAVE FIRM SCHEDULES BE INCLUDED ON CHERRY SHEETS HAS RESULTED IN SOME AREAS NOT HAVING ANY TECH DATA.
 2. AVIATION UNITS DID NOT RECEIVE THE NSA IDENT GUIDE IN A TIMELY MANNER ON SEVERAL OCCASIONS. MAIN REASON WAS VOLUME OF DATA WHICH REQUIRED REWORKING, SINCE IT WAS RECEIVED AT CMA VIA NSA HIGH SPEED CIRCUIT.
 3. DUAL TARGETS SCHEDULED IN WIDELY DISPERSED AREAS ALL ASSIGNED A PRIORITY ONE, CAUSING CONFLICT IN TARGET WORKING.
 4. MANY TARGETS, SOME OF WHICH WERE LISTED AS MAGV PRIORITIES, WERE NOT FIXED BECAUSE THEY WERE ACTIVE DURING THE PERIOD DEDICATED TO SEARCH FOR ALLEGEDLY FIRM SPECIAL EMPHASIS AND PRIORITY ONE TARGETS. THIS PROCEDURE ACCOUNTED FOR A DECREASE IN FIX RATE AT USA-563.
 5. CHERRY SHEET INACCURACIES CONTINUE TO EXIST SUCH AS, WRONG COLLISIONS EXTRACTED FROM BOI DATA, INCORRECT FREQUENCIES AND TIMES, AND OUT OF AREA TARGETS LISTED. ADDITIONALLY MANY TOT LOCATIONS WERE LISTED INCORRECTLY WHICH LED TO BAD ACFT POSITIONING. GENERALLY THOSE TARGETS WHICH WERE ~~FIXED~~ WERE WORKED ON A DIFFERENT FREQUENCY THAN THAT PROJECTED.
- PART THREE: CONCLUSIONS/RECOMMENDATIONS.

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
		3	5		
SECURITY CLASSIFICATION	INSTRUCTIONS				

DD FORM 173-1
1 NOV 63

REPLACES EDITION OF 1 MAY 55 WHICH MAY BE USED.

ABBREVIATED JOINT MESSAGEFORM
and/or CONTINUATION SHEET

PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE
ACTION ROUTINE	1st Col Barnes	Capt Sayles	4891
INFO			

1. THE THREE MINUTE PRIOR TO AND AFTER SCHEDULE SEARCH HAS PROVED TOO RESTRICTIVE. RECOMMEND THAT THIS BE EXPANDED TO FIVE MINUTES AND ALLOW OPERATORS TO WORK OTHER TARGETS THUS AVOIDING MISSION DEGRADATION. THE AIR FORCE AND SYSTEMS ARE CAPABLE OF SIMULTANEOUS MULTI-TARGET WORKING AND FILING, AND CAN WORK OTHER TARGETS WHILE STILL SEARCHING FOR DESIGNATED SPECIAL EMPHASIS OR PRIORITY ONE SCHEDULES.
2. WHEN NO TECH DATA IS AVAILABLE ON PRIORITY ONE OR SPECIAL EMPHASIS TARGETS IN A GIVEN AREA, SELECTED PRIORITY TWO TGT DATA SHOULD BE PROVIDED.
3. THE FORMAT OF THE NSA IDENT GUIDE SHOULD BE REVISED TO ELIMINATE EXCESSIVE USE OF PERIODS. RECOMMEND AS MINIMUM THAT RCVR/IMTR CALLSIGNS BE SEPARATED WITH A VERSICLE (/). ALSO, IF POSSIBLE, AN NSA IDENT GUIDE IN ALPHABETICAL ORDER BY RCVR WOULD BE BENEFICIAL. THE NSA IDENT GUIDE HAS PROVED ITS VALUE TO THE AIRBORNE OPERATOR AND STRONGLY RECOMMEND THAT IT BE RETAINED AS A TECH SUPPORT AID WITH RECOMMENDED MODIFICATIONS. IT SHOULD BE PROVIDED IN ONE COMPLETE PACKAGE INSTEAD OF PIECEMEAL AS IS PRESENTLY BEING DONE, AND BE AVAILABLE TO THE AVIATION UNIT NO LATER THAN 48 HOURS PRIOR TO BEGINNING OF EACH TASKING CYCLE.
4. IN VIEW OF LOW VALIDITY OF CURRENT TEST CHECKY SHEETS (TWO TO TEN PERCENT) BELIEVE CMA'S SHOULD STRESS DAY-TO-DAY CONTINUITIES

CONTROL NO.	TCR/YGD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
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SECURITY	CLASSIFICATION INSTRUCTIONS				

DD FORM 173-1

REPLACES EDITION OF 1 MAY 58 WHICH MAY BE USED.

ABBREVIATED POINT MESSAGE FOR
and/or CONTINUATION SHEET

PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE
ACTION ROUTINE	Lt Col Barnes	Capt Sayles	4891
INFO			

OBTAINED FROM AIRBORNE INTERCEPT TO ENHANCE RELIABILITY, UTILIZING
GROUND INTERCEPT CONTINGENCIES AS A SUPPLEMENTARY TARGET SOURCE.
USA-561 HAS CONDUCTED A VERY LIMITED TEST PROVIDING OPERATORS WITH
CHERRY SHEETS UPDATED FROM PREVIOUS DAY'S INTERCEPT AND THIS RE-
SULTED IN THREE TARGETS BEING FIXED AND IDENTIFIED ON 11 NOV WHICH
WERE NOT FIXED FOR APPROXIMATELY ONE WEEK. ALTHOUGH THE POTENTIAL
IS THERE, BELIEVE SUBSTANTIAL ADDITIONAL EXPENDITURE IN TIME AND
EFFORT WILL BE REQUIRED OF THE GMA TO PROVIDE THIS TYPE SUPPORT.
5. IN VIEW OF THE FACT THAT THE OVERALL CONCEPT AND PROCEDURES
FROMLICATED BY THE ORIGINAL TEST PLAN ARE NOT BEING FULLY ADHERED
TO BY OUR TECHNICAL SUPPORT AUTHORITIES (GMA'S, DSU'S) AND IN
VIEW OF THE MEN INCORPORATION BEING EXPERIENCED AT USA-562 AND USA-563,
RECOMMEND THAT THE TEST BE TERMINATED OR SUSPENDED UNTIL REVISED
PLAN CAN BE IMPLEMENTED AND COMPLETE EVALUATION OF THIS PHASE
ACCOMPLISHED.

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REGRADING INSTRUCTIONS					



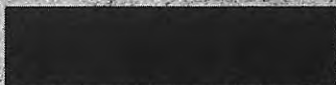
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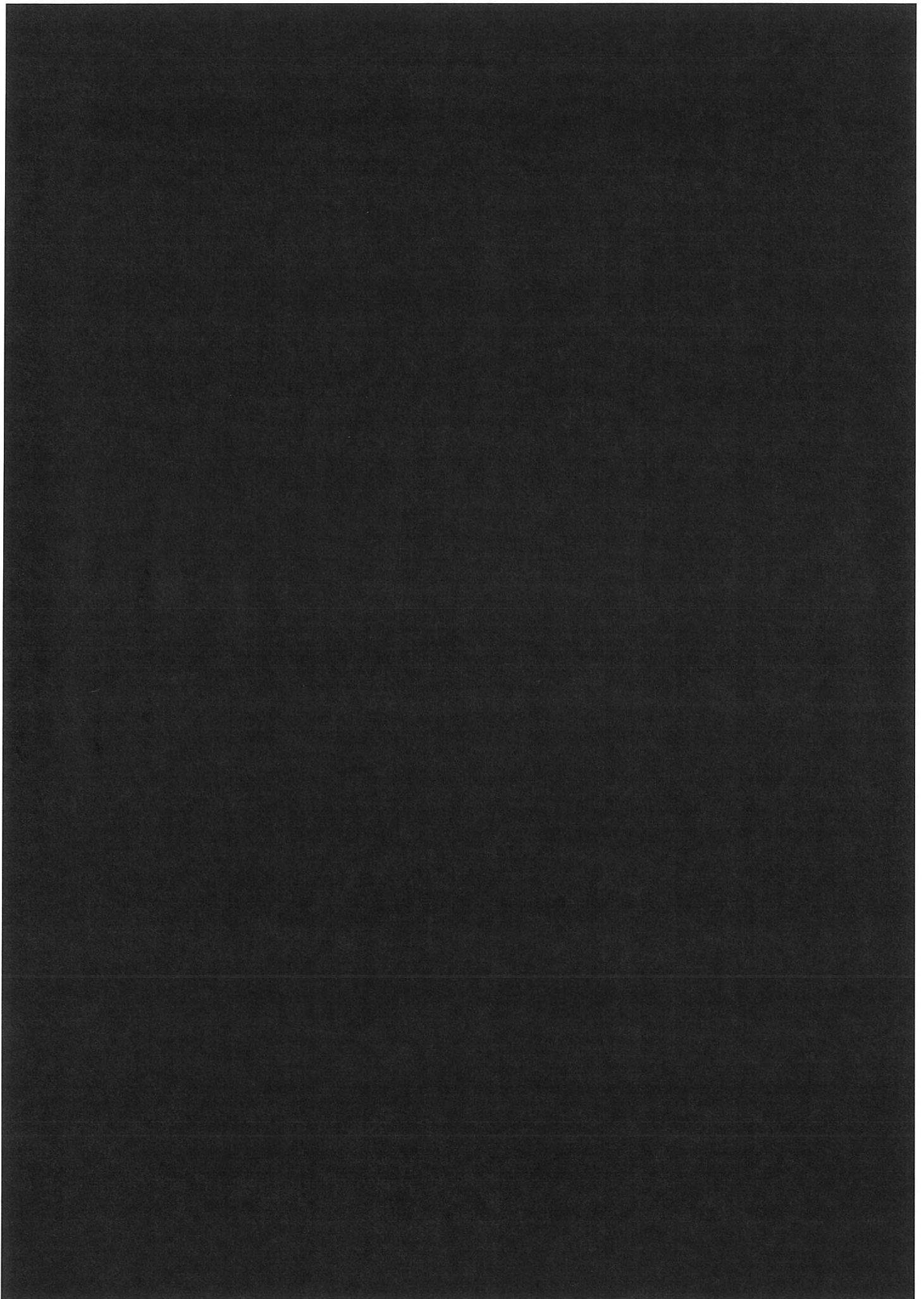
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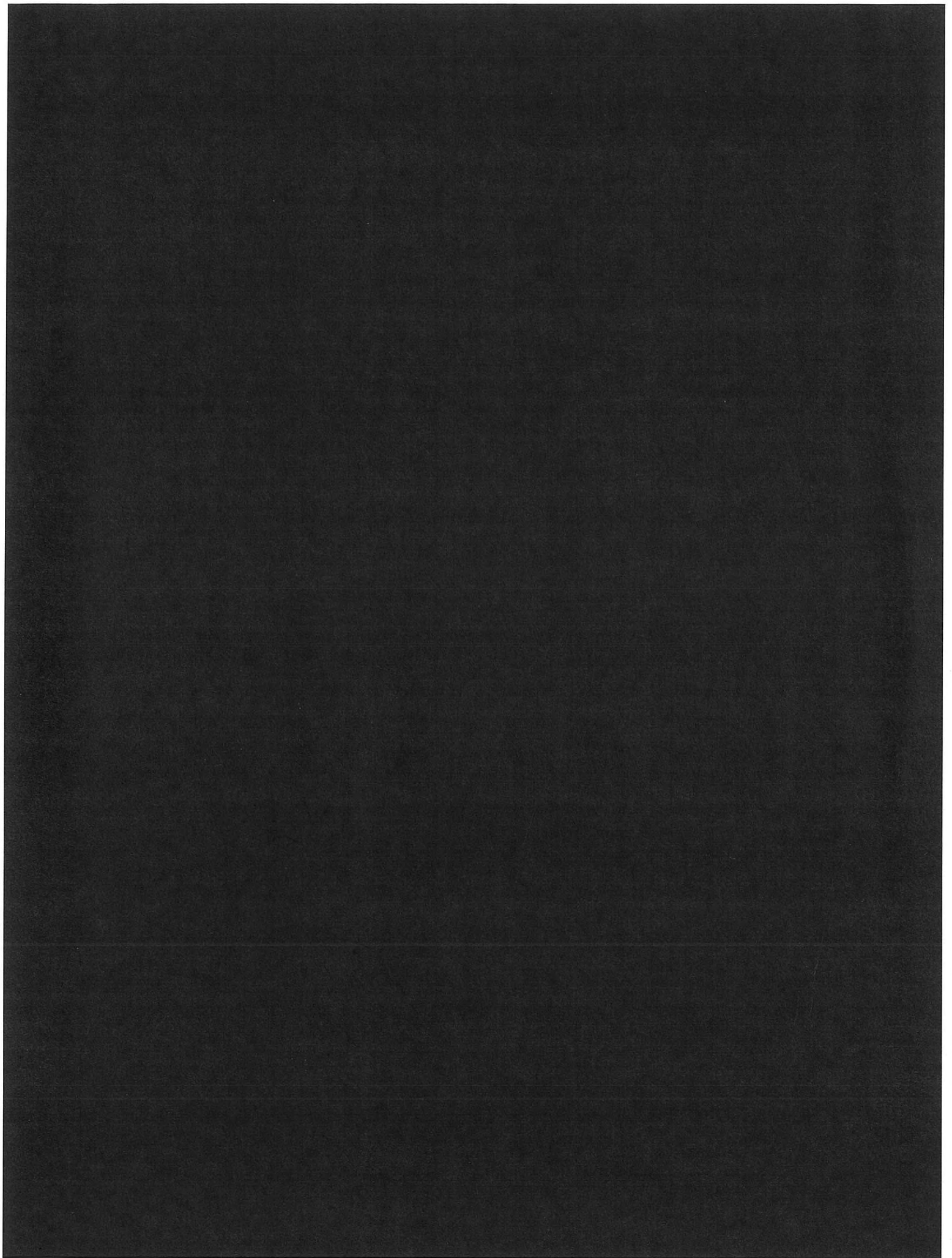
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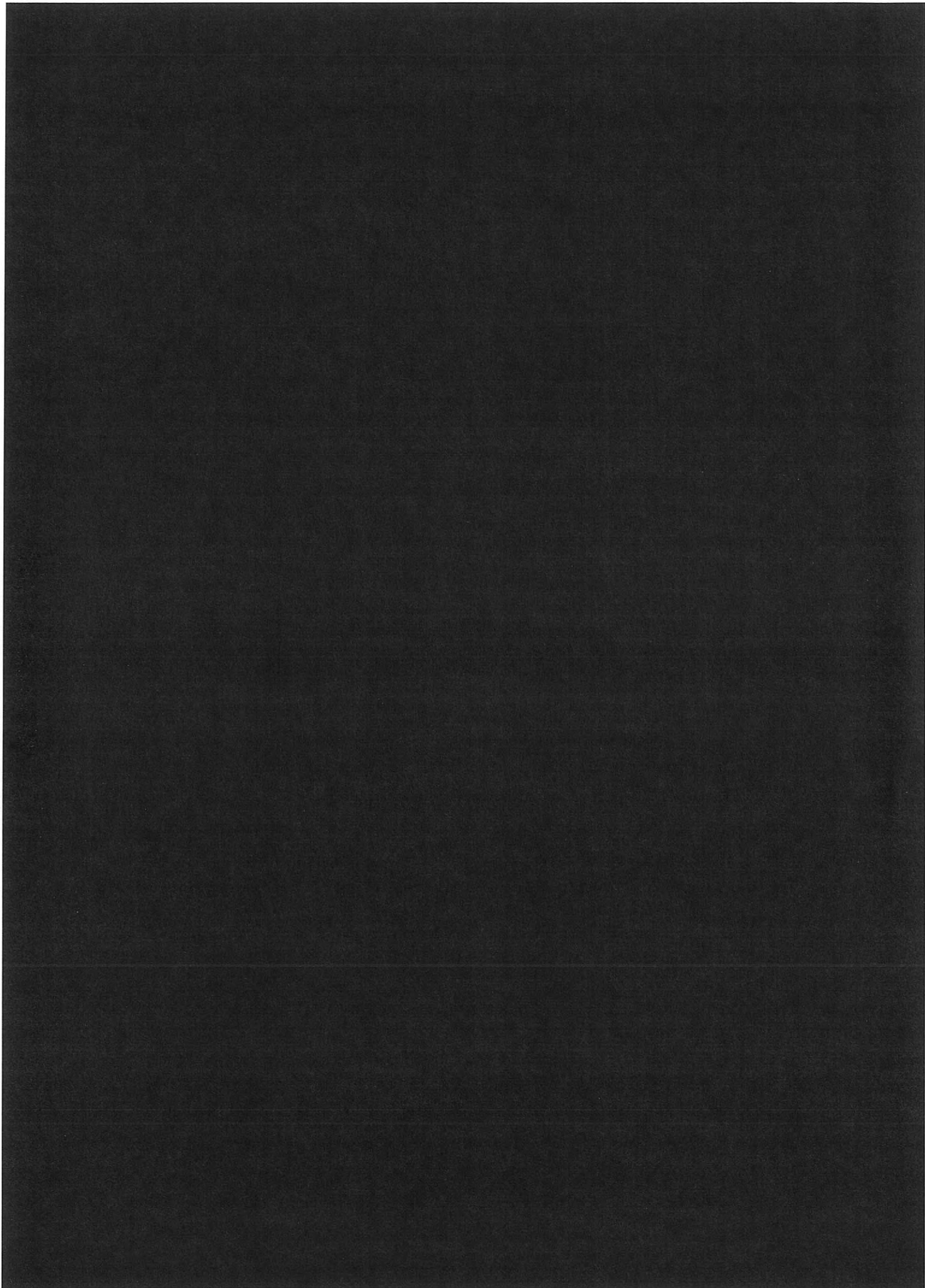
DO
 OBJ: AWP TECH SUPPORT TEST.
 REFS: 1. AIR COM 170100Z NOV 78.
 2. AIR CG 350002Z OCT 78.

1. YOUR ANALYSIS/APPRaisal OF THE NEW METHOD FOR PROVIDING TECH SUPPORT TO AWP MISSIONS IS CONSIDERED AN EXCELLENT EXAMPLE OF OBJECTIVITY. WE FULLY CONCUR WITH YOUR RECOMMENDATIONS TO TERMINATE OR SUSPEND THE TEST FOR A COMPLETE EVALUATION AND SUBSEQUENT REVISION OF PROCEDURES.
 2. REF ALFA PARA FOUR INDICATES CHERRY SHEET SUPPLEMENTATION BY THIS UNIT WAS ACCOMPLISHED ON ONLY ONE DAY. THE SUCCESS OF THIS TEST IS THEN USED AS AN EXAMPLE TO VALIDATE THE COM'S EXPENDITURE OF TIME AND MANPOWER TO PROVIDE SIMILAR DAY-TO-DAY CONTINUITIES. ALTHOUGH IT MAY BE ARGUED THAT DAY-TO-DAY CONTINUITIES ARE THE FUNCTION OF THE COM, IT IS A PROVEN FACT THAT THE COM'S CAN NOT AND APPARENTLY WILL NOT ATTEMPT TO ACCOMPLISH THIS GOAL. WE ARE THEREFORE CONCERNED THAT THE SINGLE ATTEMPT TO AUGMENT THE CHERRY SHEETS FOR AN AWP MISSION MAY REPRESENT THE TOTAL EFFORT EXPENDED IN THIS REGARD, SINCE REF BRAVO IDENTIFIES SPECIFIC ANALYTICAL TASKING HQ OF INCLUDES SUPPLY FUNCTION OF CHERRY SHEETS, WE ASSUME THIS FUNCTION WAS ATTEMPTED AT LEAST MORE THAN ONCE DURING A 30-DAY PERIOD. PLEASE ADVISE.
 3. FOR COM'S USE T THE LACK OF SUCCESS WITH THE NEW TECH SUPPORT PROCEDURES AS IDENT IN REF ALFA, ESPECIALLY THE NEED FOR DAY TO DAY CONTINUITIES, BE USED IN YOUR NEGOTIATIONS WITH N AD TO OBTAIN PERMISSION FOR USING THE ALFA SORT OF THE VCS CALLSIGN SYSTEM ON COM'S MISSION AWP. ALTHOUGH NOT ADDRESSED IN REF ALFA, THE USE OF THIS MATERIAL WOULD BE ESPECIALLY HELPFUL TO DET 2 AND DET 3.
- 5000
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JOINT MESSAGEFORM

SEC	[REDACTED]		
TYPE MSG	BOOK	MULTI XXX	SINGLE
PRECEDENCE			
ACTION	PRIORITY		
INFO			

[REDACTED]

File
EOT-16
[initials]

DTG 160852Z Sep 70

FROM: 6994 SCTY SQ TAN SON NHUT AB VIETNAM

SPECIAL INSTRUCTIONS

TO: PACSCTYRGN/DORT/LOMM

INFO: USAFSS/DORT/LOMA

DET 2, 6994 SCTY SQ/DO/LO/

[REDACTED] DOR

SUBJ: UTILIZATION OF AIR-38 ACFT. (u)

REF MY LO/DO 020913Z SEPT, UR LOMM 040050Z SEPT (NOTAL)

AND MY DO/LO 090300Z SEPT (NOTAL).

AFTER GIVING THIS SUBJ FURTHER OPERATIONAL CONSIDERATION,
IT HAS BEEN DETERMINED THAT IT WILL BE IN THE BEST INTEREST
OF ALL CONCERNED TO UTILIZE THE NON-CALIBRATED AIR-38 ACFT
(AND THOSE CALIBRATED ACFT THAT ARE AWAITING THE RETURN OF THE
CAL PROGRAM TAPE) FOR COLLECTION ONLY. THAT DETERMINATION WAS
BASED ON:

A. THE POTENTIAL DANGER OF A TACTICAL COMMANDER TAKING
ACTION BY FIRE AGAINST A POSSIBLE ERRONEOUSLY LOCATED TARGET
(IT IS A COMMON PRACTICE IN THE DMZ AREA TO IMMEDIATELY FIRE
ON ARDF FIXES AND ASK QUESTIONS LATER).

DATE	TIME
16 MONTH	1500 YEAR
SEPT PAGE NO.	1000 NO. OF PAGES
1	2

D R A F T E R	TYPED NAME AND TITLE	PHONE	SIGNATURE
	SMSGT MILLER, /gdw	4891	<i>Jack Barnes</i>
S E C U R I T Y	[REDACTED]	[REDACTED]	TYPED (or stamped) NAME AND TITLE
	[REDACTED]	[REDACTED]	JACK BARNES, Lt Col, USAF

DO FILE

ABBREVIATED J T MESSAGEFORM
and/or CONTINUATION SHEET

PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE
ACTION PRIORITY	COL BAUNES,	SMSGT MILLER	4891
INFO			

B. LOSS OF CONSUMER CONFIDENCE IN OUR PRODUCT BY TELLING HIM
THAT WE ARE UNSURE OF THE VALIDITY OF THE FIXES FROM A GIVEN MISSION.

C. ALTHOUGH FIXES ARE DESIRABLE ON ALL TETS COPIED, THE ACFT CAN
BE GAINFULLY EMPLOYED AS STRAIGHT COLLECTORS IN DET 2'S AREA OF OPERATIONS.

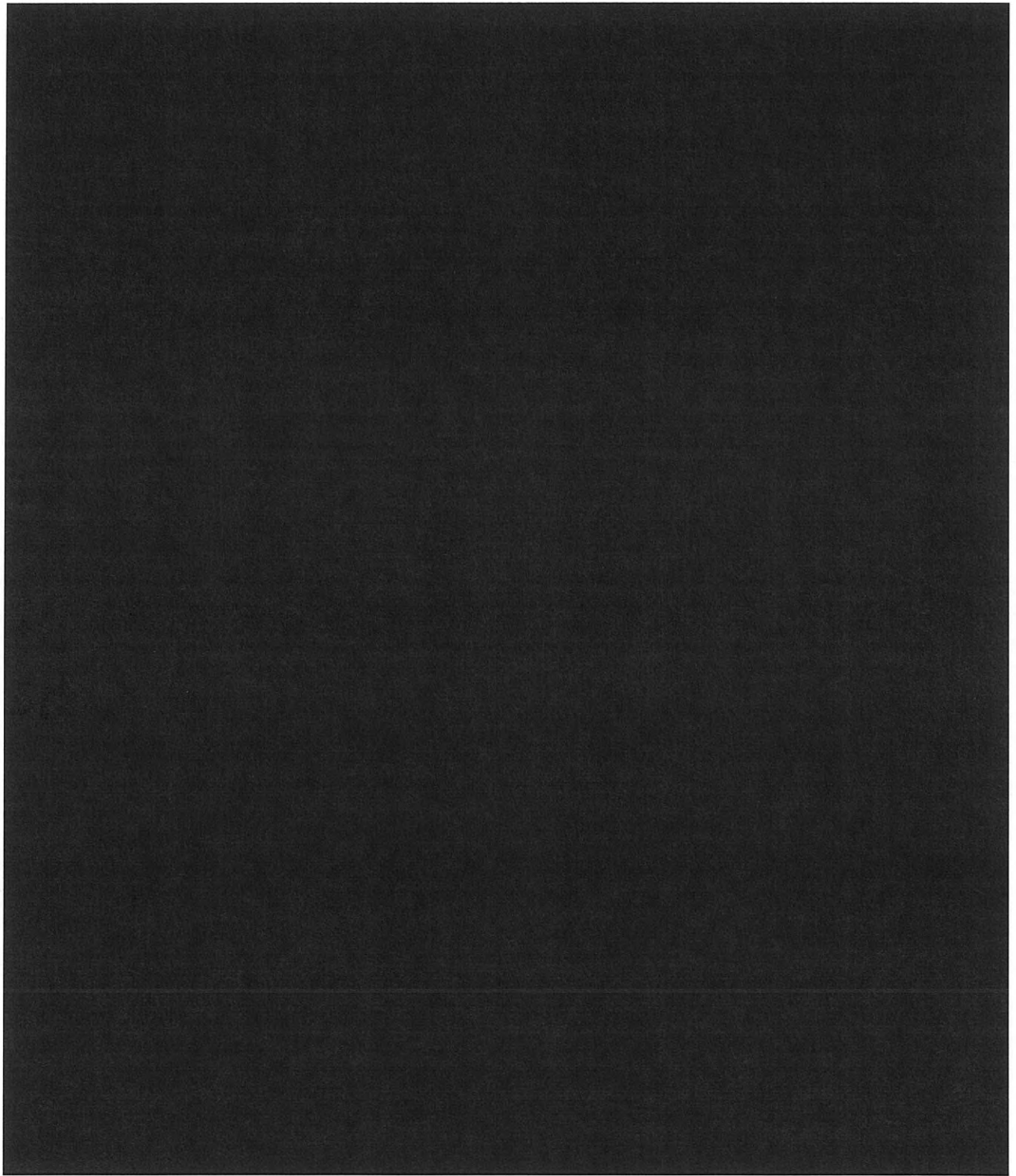
M/R: Our LO/DO 020913Z pointed out that the ACFT going through the 2235
MOD would be coming out faster than they could be run through calibration
at CRB. It further suggested that we utilize the ACFT for operational means
until such time as they were calibrated as the SANDERS rep stated that highly
experienced navigators could obtain fixes without calibration Cal Program Tapes
(that is true up to a point i.e. the new could plot a fix of acceptable radius,
however, the accuracy of the fix location could be in gross error). Due to
that fact and for reasons stated it is in our best interest to utilize the
newly updated ACFT as collectors only until they are fully operational.
SMSGT MILLER



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CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
		2	2		AB

LOCATION



*Submarine
DO-
DORM*

[REDACTED]

[REDACTED]

[REDACTED]

// CCN 1022//
ROUTINE
FM USAFSS
TO PACSCTYRGN
INFO 6994 SCTYSG
DET-2 6994 SCTY 50
IDIG 232110Z

[REDACTED]

SEP 70 DOR.

SUBJ: ALR-38 EFFECTIVENESS (S/MVCCO)

1. ALR-38 FIX DATA PROVIDED BY USA-563 FROM 28 JUL-13 SEP 18 SUMMARIZED AS FOLLOWS:

A. MISSIONS EXAMINED-72.

B. FIXES EXAMINED-373.

(1) 2-16 MHX-226.

(2) 16-50 MHX-132.

(3) 50-70 MHX-15.

C. FIX RADIUS.

(1) 2-16 MHX-1000M-38 PERCENT (85), 1000-2000M-55 PERCENT (124), OVER 2000M-7 PERCENT (7).

(2) 16-50 MHX-1000M-24 PERCENT (32), 1000-2000M-54 PERCENT (71), OVER 2000M-22 PERCENT (29).

(3) 50-70 MHX-1000M-6 PERCENT (1), 1000-2000M-67 PERCENT (20), OVER 2000M-27 PERCENT (4).

D. AVERAGE FIX RADIUS.

(1) 16-50 MHX-1973M.

(2) 50-70 MHX-2323M.

E. AVERAGE STAND-OFF RANGE.

(1) 6-50 MHX-11.9NM.

(2) 50-70 MHX-18.5 NM.

F. ALR-35 RADIUS (DET 2) 18 JUL-11 SEP.

(1) 0-1000M-79 PERCENT (1469).

(2) 1000-2000M-17 PERCENT (318).

(3) OVER 2000M-4 PERCENT (8).

2. DESPITE LIMITED DATA AVAILABLE FROM ALR-38 AIRCRAFT, TREND INDICATED FROM ABOVE DATA IS NOT FAVORABLY COMPARABLE WITH ALR-35 SYSTEM NOR DOES THE ABOVE DATA COMPARE FAVORABLE WITH ALR-38 OT AND E RESULTS IN ALL RESPECTS.

3. RECOGNIZE STAND-OFF RANGE, TERRAIN AND WEATHER HAVE SOME IMPACT ON SYSTEM RELIABILITY. PREFER, THEREFORE, TO COMPARE ALR-38 PERFORMANCE TO THAT OF THE ALR-35S AT DET 2 VICE OT AND E, SINCE BOTH SYSTEMS FLY BASICALLY SAME AREA AND SAME TERRAIN/WEATHER CONDITIONS.

4. WE ARE AWARE THAT SOME VARIANCE IN SYSTEM RELIABILITY CAN BE ATTRIBUTED TO COMPUTER SOFTWARE. THE COMPUTER SOFTWARE, AS PERTAINING TO DERIVING A LOP FROM A SET OF PHASE MEASUREMENTS, DIFFERS IN THE ALR-38 FROM THAT USED IN THE ALR-35. THE ALR-38 UTILIZES A ROUTINE WHICH PROVIDES A LEAST-SQUARES FIT OF PHASE MEASUREMENT SAMPLES ON A TIME TAKEN BASIS, WHERE AS THE ALR-35 USES A STRAIGHT AVERAGE, NOT TIME SENSITIVE. DURING THE OT AND E, IT WAS DETERMINED THAT THE NEW METHOD CURRENTLY USED IN THE ALR-38 DEPLOYED WAS NOT AS ACCURATE AS THE ALR-35 METHOD. CHANGES TO THE SOFTWARE PROGRAM WERE RECOMMENDED AND HAVE BEEN RETROGRAMMED. FLIGHT ACCEPTANCE OF A STANDARD ALR-37-ALR-38 PROGRAM IS BEING CONDUCTED DURING THE WEEK OF 21 SEP.

5. WHILE WE FEEL THE SOFTWARE PROBLEM OUTLINED IN PARA 4 IS THE MAJOR CONTRIBUTOR TO THE ACCURACY DISPARITY, WE WOULD APPRECIATE YOUR COMMENTS/DOCUMENTATION OF ANY OTHER KNOWN SYSTEM FACILITIES WHICH IMPACT UPON FIX ACCURACY.

6. WILL ADVISE STATUS OF SOFTWARE ACCEPTANCE TESTING UPON COMPLETION.

420

[REDACTED]

Z00413
//PRIORITY//
SEN 0029
P 201130Z
FM OCT 2 0994 SCTY SQ
TO 0994 SCTY SQ/DO
ZEN

R/S
P/R

PLEASE PASS TO COL. BARNES
SUBJ: ALR-38 EFFECTIVENESS

RE USAFSS DOR 232110Z SEP 70.

1. AGREE WITH STATISTICS PROVIDED IN PARA ONE, REF NSG, AS REPORTED IN OUR DAILY ARDF BURMIS.

2. OUR OPERATIONAL COMMENTS ARE SEPARATED INTO THE FOLLOWING CATEGORIES:

A. OI&E: DO NOT FEEL THAT OI&E WAS REALISTIC FOR THE ENVIRONMENT THE AIRCRAFT ARE ACTUALLY FLYING IN. FEEL THAT MORE STRINGENT TEST IN THE LOCAL ENVIRONMENT BY SYSTEMS ENGINEERS SHOULD HAVE BEEN CONDUCTED PRIOR TO FRAGGING SYSTEMS INTO DAILY OPERATION.

B. COMPARISONS: DO NOT BELIEVE THE ALR-38 SYSTEM HAS/YIS BEING DONE JUSTICE BY COMPARING ITS PERFORMANCE WITH THAT OF THE ALR-35 SYSTEMS. THE TWO SYSTEMS' CAPABILITIES AND COMPLEXITIES ARE SO FAR APART THAT EVEN THE TRAINING OF MAINTENANCE PERSONNEL, OPERATOR PERSONNEL, AND NAVIGATORS IS ACUTE. DO NOT BELIEVE THAT THE SYSTEMS HAS BEEN IN THE FIELD LONG ENOUGH TO PERFORM A THOROUGH EVALUATION OF THE ALR-38 AND REALISTIC COMPARISONS WITH THE ALR-35 AND OI&E.

C. TRAINING: EMPHASIS APPEARS TO BE PLACED ON THE RADIUS OBTAINED ON FIXES BY THE ALR-38 SYSTEMS THUS FAR. AS WAS THE CASE WITH THE THREE MINI-NOOS, ADDITIONAL TIME IS NEEDED TO EDUCATE ALL PERSONNEL IN THE ENTIRE ALR-38 SYSTEMS AND IT'S PECULIARITIES. MANY TECHNICAL DOCUMENTS THAT ARE NEEDED ARE NON-EXISTENT. WE BELIEVE THAT, AS TIME PROGRESSES, ALL PERSONNEL, INCLUDING MAINTENANCE, OPERATORS, AND NAVIGATORS WILL BECOME MORE ITIMATELY FAMILIAR WITH THIS SYSTEM WHICH WILL RESULT IN A HIGHER LEVEL OF CONFIDENCE ON THE PART OF THE NAVIGATORS, AND EVENTUALLY REDUCE FIX RADIUS TO AN ACCEPTABLE LEVEL (NEAR OI&E RESULTS).

3. TO AID IN PROVIDING OTHER KNOWN DEFICIENCIES OF THE ALR-38 SYSTEM WHICH IMPACT UPON SYSTEM REQUIREMENTS, THE FOLLOWING IS SUBMITTED:
A. THE ALR-38 SYSTEM CAPABILITY FOR LOCKING ON THE FM SIGNALS WITH HIGH FREQUENCY SWIFT AND LOW SIDE BAND POWER HAS BEEN IDENTIFIED AS A PECULIARITY OF THE SYSTEM. ALL VHF SIGNALS OF LESS THAN FOUR (4) SIGNAL STRENGTH (ATTENUATION OF ZERO, AND OTHER POSITIONS) WILL NORMALLY GIVE A SIGNAL PRESENT LIGHT. HOWEVER, WHEN THE "NAV OF FILE" IS PRESSED, THE SIGNAL PRESENT LIGHT WILL BLINK WHEN WORKING 10T ON ARDF, OR COMPLETELY DISAPPEAR, RESULTING IN INSUFFICIENT DATA. WHEN THE DF CYCLE IS COMPLETED THE SIGNAL PRESENT LIGHT WILL REAPPEAR. MOST SIGNALS WITH STRENGTH OF 2 BAND AND 3 WILL NOT PROVIDE A SIGNAL PRESENT LIGHT. THIS APPEARS TO BE FUNCTION OF ANTENNA SWITCHING PATTERNS. POSSIBLE GAIN ADJUSTMENTS AMONG THE ANTENNA SYSTEMS WAS DEBRIEFED TO BRADF MAINTENANCE.
4. PROBLEMS SEEN TO BE ARISING, NOT ONLY ON R/C 009, BUT THROUGHOUT THE MAXI-38 FLEET INVOLVING KEEPING A VALID FIVE MICROVOLT THRESHOLD LEVEL FOR THE SIGNAL PRESENCE DETECTOR. AS THE SYSTEM SWITCHES THROUGH THE ANTENNA SEQUENCE, OUTPUTS OF VARIOUS PREAMPS APPEAR ON CHANNEL ONE AND IN TURN DRIVE THE SIGNAL PRESENCE DETECTOR (AS WELL AS THE DF PHASE MEASURE). THERE IS VARIATION IN GAIN BETWEEN ONE PREAMP AND THE NEXT. IN THE COURSE OF A GIVEN SWITCHING SEQUENCE, SEVERAL PREAMPS WILL BE ABOVE AND BELOW THE SET 5 UV LEVEL. WHEN THE OUTPUT DROPS BELOW, SIGNAL PRESENCE DROPS OUT OR FLICKERS. THIS CAUSES THE SYSTEM TO REJECT THE LOP DATA TAKEN. SIGNAL PRESENCE COULD BE SET TO THE LOWEST GAIN PREAMP FOR EACH AIRCRAFT, BUT, SINCE CERTAIN ANTENNA ARE NOT USED ON SOME BANDS, THE RESULT MAY BE A 1 OR 2 UV THRESHOLD ON SOME BANDS, CAUSING CONTINUOUS NOISE TRIGGERING OF SIGNAL PRESENCE. MORE DETAILED AND COMPLEX SELF-TEST OF THE ALR-38 WHEN COMPARED TO THE ALR-35 RESULTS IN SELF TEST PROBLEMS WHICH ARISE AND ARE EXTREMELY DIFFICULT TO TRACE. ALMOST ANY MOVEMENT OF PREAMPS OR ANTENNAE SEEM TO CHG THE READINGS. EXPERIENCE IS JUST NOW BEGINNING TO DICERN A PATTERN, BUT AS YET WE HAVE NO EXPLANATIONS. SO FAR, 4 OUT OF 5 SYSTEMS TEST OUT OF TOLERANCE CASES HAVE BEEN BAD SYSTEMS TEST EQUIPMENT, NOT THE SYSTEMS FAILURES. THERE IS, HOWEVER, NO RAPID METHOD YET DEVISED TO TELL THE DIFFERENCE.
5. IN WORKING VHF FM TARGETS WITH HIGH SIGNAL SWING, THERE APPEARS TO BE INSUFFICIENT SIDE-BAND POWER WITHIN THE BAND-PASS OF THE 25 KC TO DERIVE RELIABLE BEARINGS. THE COMPUTER PROGRAM KICKS OUT THIS DATA AND DISPLAYS "INSUFFICIENT DATA". QUITE OFTEN THIS INHERENT LIMITATION COUPLED WITH CALL GATE SWITCHING AND SIGNAL PRESENTS PROBLEMS ARE MIXED AND CONFUSED IN OPERATOR DEBRIEFS. WE ARE JUST NOW BEGINNING TO BE ABLE TO FIGURE OUT WHAT PROBLEMS ARE INDICATED IN THE DEBRIEFS. THESE PROBLEMS ARE ESPECIALLY ACUTE WITH MULL-

18

FIX TARGETS. SOME DAY, IF TIME ALLOWS, WE WANT TO OBTAIN MORE SIGNALS WITH THE SK OUTPUT TO OBTAIN MORE SIDE BANDS IN THE 25 KC I.F. OUTPUT. ERRATIC BEARING PROBLEMS ARE BECOMING MORE PREVALENT AS TIME GOES ON. WE HAVE NOT YET BEEN ABLE TO FORM ANY GENERALIZED SOURCE OR PROCEDURES FOR THESE.

6. CONCUR WITH USAFSS THAT COMPUTER SOFTWARE IS ONE OF THE LIMITING FACTORS. HOWEVER, RATHER THAN BEING MORE INACCURATE, THE ALR-38 PROGRAM IS PROBABLY MORE SENSITIVE TO FACTORS CAUSING UNRELIABLE BEARINGS AND, THEREFORE, ITS OUTPUT PROBABLY MORE REALISTIC AS FAR AS THE MISS DISTANCE ACTUALLY BEING WITHIN THE CEP AT THE PROBABILITY SPECIFIED BY THE NAV. THE COLLECTION OF "B" SAMPLE DATA INTO GROUPS IS MORE LIKELY TO ELIMINATE BAD DATA, OTHER WISE TREATMENTS WERE SIMILAR. LEAST SQUARES DATA FIT IS USED ON BOTH ALR-35 AND 38.

7. ONE FACTOR, WHICH TECH REPS HAVE BRIEFED TO SANDERS, BRAND MAINT, AND NAVS, IS THAT SHORT INTERCEPTS OF BAD LOPS WILL HAVE A LARGE EFFECT OF TARGET POSITION. FOR EXAMPLE, SEVERAL GOOD LOPS ARE TAKEN OFF ONE WING AT A LONG STAND-OFF, SAY BETWEEN 45 AND 135 DEGREES REL, AND ONE BAD LOP MORE PARALLEL WITH THE ACFT COURSE IS TAKEN, SAY 15-25 DEGREES REL. THE INTERCEPT OF THIS LOP WITH THE OTHERS WILL BE NEAR THE ACFT. THIS SMALL RANGE IS INVERSELY PROPORTIONAL TO THE CORRECTION FACTOR AND SHIFTS THE TARGET MARKEDLY. THIS FACTOR ALSO ENTERS INTO CEP EXPANSION, SO THAT THE MISS DISTANCE IS USUALLY WITHIN THE CEP AS SPECIFIED BY THE PROBABILITY. OUR EXPERIENCE WITH PNT RESULTS THIS FAR BEARS THIS OUT; EVEN HUGE MISS DISTANCES ARE CONTAINED WITHIN EVEN LARGER CEP'S AT 95 PERCENT SO THAT THE INFORMATION OBTAINED IS VALID EVEN IF THE FIX WANTS FOR ACCURACY.

8. IT IS PURE UNDERSTANDING THAT NAVIGATORS WERE EVALUATED FOR THE NUMBER OF 1000M FIXES TRUNED IN THERE WAS AT ONE TIME A TENDENCY TO REDUCE THE PROBABILITIES UNTIL THE CEP WAS REDUCED. HOWEVER, THEY HAVE BEEN BRIEFED THAT DOING SO MIGHT PUT THE TARGET OUTSIDE THE CEP. MOST OF THEM ARE MORE SERIOUSLY CONCERNED WITH PROVIDING VALID INFORMATION THAT 1000M FIXES, SO THE PROBABILITIES ARE USUALLY KEPT UP TO 75-95 PER CENT.

9. THE ALR-38 SYSTEM IS EQUIPPED WITH "SIGNAL PRESENCE DETECTOR" RATHER THAN THE ALR-35 "THRESHOLD". THE FORMER, HOWEVER, IS PRESET TO 5 MICROVOLTS. THIS IS DONE WITH CHANNEL 2 OF THE ACQUISITION ANTENNA. WHEN THE DF CYCLE BEGINS, THE CAL GATE SWITCHES OTHER ANTENNAS INTO THE CIRCUIT. IF ANY OF THESE IS LOWER THAN 5UW OUTPUT, UNRELIABLE SIGNALS MAY BE PUT INTO PHASE MEASURE. WHILE THE SYSTEM COMPENSATES FOR VARIABLE ANTENNA GAINS, WE ARE BREAKING OF MINIMUM SIGNAL SPEC, AND IS TOO LOW. THE UNRELIABLE DATA MAY BE KICKED OUT BY COMPUTER ROUTINES. SOMETIMES "INSUFFICIENT DATA" RESULTS FROM WHAT THE DO, OR ACQUISITION, THOUGHT TO BE A GOOD SIGNAL. WE ARE JUST NOW BEGINNING TO UNDERSTAND PROCEDURES TO ACCESS THE GAIN/PHASE ERRORS AND HELP US TO GET VALID 5 MICROVOLT SIGNAL MINIMUM. CH 5 OF DASH-3 IS BEING INVESTIGATED FOR POSSIBLE ADAPTATION TO OUR PHASE PROCEDURES. THIS, IN TIME, SHOULD REDUCE THE "INSUFFICIENT DATA" AND THE NUMBER OF HIGH STANDARD DEVIATION SIGNALS. NAVIGATORS ARE PRESENTLY FORCED TO USE TO OBTAIN FIXES ON LOW POWER TRANSMISSIONS.

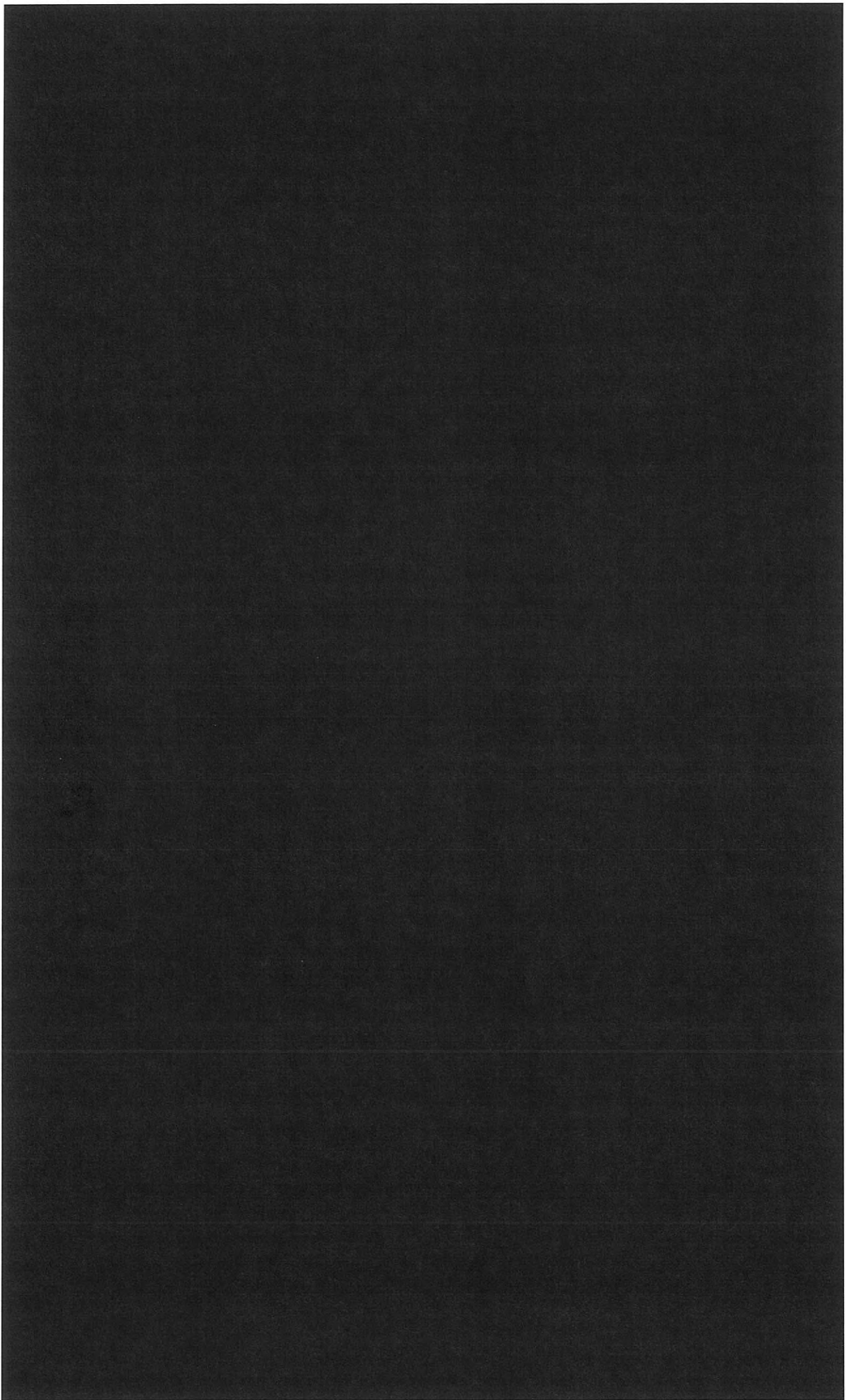
10. IN CONJUNCTION WITH THIS IS THAT PH TARGETS WITH HIGH SIGNAL SWING HAVE WIDELY SPACED SIDE BANDS-ESPECIALLY MULTIPLEX TARGETS. THE 25KC PHASE MEASURE IS ONLY 3KC IN BANDWIDTH. AS A RESULT ONLY ONE OF VERY FEW SIDEBANDS ARE SUBJECT TO PHASE MEASURE (DF). A SIGNAL WHICH APPEARS STRONG MAY BE DELIVERING ONLY A HEAD-MINIMUM SIDE BAND POWER TO THE PHASE MEASURE (AND SIGNAL PRESENCE), AND "INSUFFICIENT DATA" PLAGUES ANY ATTEMPT TO DO. THE AFC APPEARS TO TRY TO FOLLOW THE MOVEMENT OF THE SIDEBANDS IN THE SPECTRUM, CAUSING DATA-TAKING TO BE SPOTTY. THIS COUPLED WITH SPOTTY SIGNAL PRESENCE TOLERANCES AS IN PARA ABOVE MAKE FIXES ON PH AND MULTIPLEX TARGETS DIFFICULT TO FIX.

11. CAPABILITY OF THE ALR-38 AGAINST MARGINAL TARGETS, I.E. HORIZONTALLY POLARIZED ANTENNAS, LOW POWER SEEMS TO BE THE SAME OR BETTER, EXCEPT THAT CEP'S REFLECT THEIR MARGINAL NATURE MORE REALISTIC AND A HIGHER NUMBER "INSUFFICIENT DATA" DISPLAYS INDICATE MORE CRITICAL EDITING, SAVING THE NAVIGATOR THE TROUBLE OF WONDERING WHAT TO DO WITH "99" SIGNAL STRENGTH BAD LOPS.

12. A WEIGHTING FACTOR FOR "TIME SINCE LAST NAV UPDATE" EXPANDS THE CEP'S. TASKING AREAS FOR THE 35 AND 38 ARE ABOUT THE SAME AS ARE OPPORTUNITIES TO NAV UPDATE, HOWEVER, ALR-38 CEPY MORE CLOSELY REFLECT DOPPLER SHIFT.

13. RECENT TURN-OVER OF DOPPLER MAINTENANCE PERSONNEL HAS CONTRIBUTED TO AN INCREASE IN DOPPLER WRITE-UPS IN RECENT WEEKS. THIS PROBLEM IS TEMPORARY IN NATURE AND WILL DECREASE WITH EXPERIENCE OF THE ASSIGNED PERSONNEL.

14. IN SUMMARY, THE ALR-38 IS AT LEAST AS ACCURATE AS OR BETTER THAN THE 35, HOWEVER, BECAUSE OF THE INCREASED COMPLEXITY OF SIGNAL FLOW AND CONTROL CIRCUITS, IT APPEARS MORE SUBJECT TO DEGRADATION FOR "FINE TUNING" MAINTENANCE ON THE SYSTEM. EXPERIENCE AND EVALUATION OF TROUBLESHOOTING/ADJUSTMENT PROCEDURES WILL EVENTUALLY ASSIST IN BRINGING UP PERFORMANCE.



JOINT MESSAGEFORM

RESERVED FOR COMMUNICATION CENTER

RF

TYPE MSG

BOOK

MULTI

SINGLE

XX

PRECEDENCE

ACTION

PRIORITY

INFO

ROUTINE

DTS

190945Z Oct 70

FROM: 6994 SGTY SQ

SPECIAL INSTRUCTIONS

cc elf

TO: PACSGTYRON/DOR

INFO: DET 2, 6994 SGTY SQ/DO

DET 3, 6994 SGTY SQ/DO

SUBJECT: ALB-38 BASING (U)

REF: PACSGTYRON DOR 140215Z OCT 70, SUBJ ADV

1. FROM AN OPERATOR TRAINING STANDPOINT WE WOULD NOT ANTICIPATE ANY MAJOR DIFFICULTY IN TRAINING DET THREE OPERATORS ONCE DET TWO HAS ATTAINED FULL SYSTEM PROFICIENCY AND THE PECULIARITIES HAVE BEEN IDENTIFIED. DET TWO'S REPLY TO SUBJECT IS QUOTED IN PART:

QUOTE: THIS DET CAN ADEQUATELY PROVIDE OPERATORS TO TRAIN DET THREE PERSONNEL. WE FEEL THAT TWO IROS PER AIRCRAFT WOULD BE SUFFICIENT TO CONDUCT A SHORT GROUND ORIENTATION COURSE AND FLY WITH DET THREE PERSONNEL. WE REQUIRED OUR SEOS (AMS) TO FLY TEN MISSIONS UNDER SUPERVISION BEFORE THEY FLY THE ALB-38 TEN MISSIONS WERE MORE THAN ADEQUATE. THE X POSITIONS IS THE ONLY SIGNIFICANT EQUIPMENT THAT REQUIRES THROUGH (RE) FAMILIARIZATION. NO PROBLEMS IN OPERATOR TRAINING ARE ANTICIPATED. END QUOTE. BELIEVE A GRADUAL

DATE	19	TIME	1700H
MONTH	OCT	YEAR	1970
PAGE NO.	01	NO. OF PAGES	

TYPED NAME AND TITLE

PHONE

4891

SIGNATURE

DRAFT

GARY D. BELCHER, CAPT, USAF

RELEASER

TYPED (or stamped) NAME AND TITLE

GARY D. BELCHER, CAPT, USAF
ASST OPERATIONS OFFICER

REGARDING INSTRUCTIONS

ABBREVIATED
and/or CONT.

PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE
ACTION PRIORITY	GARY D. BELCHER, CAPT, USAF	GARY D. BELCHER, CAPT (a)	b) 4891
INFO ROUTINE	ASST. OPERATIONS OFFICER	ASST. OPERATIONS OFFICER	

TRAINING PROGRAM INVOLVING DET THREE TRAINING PERSONNEL AND LEAD CREW(S), WHO COULD PROVIDE SUBSEQUENT TRAINING, WOULD BE AN EFFECTIVE APPROACH WITH FOLLOW-ON ADJUSTMENT IF THE NEED IS INDICATED. THERE WOULD NOT APPEAR TO BE A HEADROOM PROBLEM UNDER THIS CONCEPT.

2. WE FEEL THAT ONE ALB-38 IS NOT SUPPORTABLE AT THE PRESENT TIME AT MCP USING A BLACK BOX CHANGE OUT CONCEPT WITH MAINTENANCE MANNING/SUPPORT COMINT OUT OF DET TWO RESOURCES FOR THE FOLLOWING REASONS:

(A) A LARGE PART OF FAILURES ON THE ALB-38 ARE ATTRIBUTED TO RELAYS, SWITCHES AND CONNECTORS RATHER THAN PURE "BLACK BOX" FAILURE. ADDITIONALLY, THE MOST TIME CONSUMING PORTION OF 38 SYSTEM MAINTENANCE IS SYSTEM TESTING, ADJUSTING AND ALIGNMENT WHICH REQUIRES DETAILED SYSTEM KNOWLEDGE AND ADEQUATE AGE ON HAND.

(B) DET TWO IS CURRENTLY MANNED AT AN ABSOLUTE MINIMUM IN MAINTENANCE AND WILL, BASED ON PAST EXPERIENCE, PROBABLY REMAIN THAT WAY. ANY WITHDRAWAL OF DET TWO PERSONNEL TO SUPPORT DET THREE WILL DEGRADE DET TWO'S CAPABILITY TO SUPPORT REMAINING ALB-38 ACFT.

(C) FURTHER, SUPPORT OF ALB-38 SYSTEMS AT MCP WILL REQUIRE THE FULL TIME PRESENCE OF A SANDERS GTSP ON LOCATION.

(D) BASED UPON PAST EXPERIENCE, SUPPORT OF A SINGLE "ONE-OF-A-KIND" ACFT IS DIFFICULT AT BEST. IN VIEW OF AFSS, AIRFRAME AND AVIONICS MAINTENANCE, LACK OF A EMI, ETC., WE FEEL THAT ONE ALB-38

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SEC	REGRADING INSTRUCTIONS				

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ABBREVIATED INT MESS
and/or CONTINUATION

SECURITY CLASSIFICATION

PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE
ACTION PRIORITY	GARY D. BEICHER, CAPT.	GARY D. BEICHER, CAPT (ajs)	4891
INFO ROUTINE	ASST OPERATIONS OFFICER	ASST OPERATIONS OFFICER	

COULD ONLY BE EXPECTED TO BE OPERATIONAL FIFTY PERCENT OF THE TIME OR LESS.

3. RECOMMEND THIS CHANGE OVER BE CONDUCTED IN A PLANNED, ORDERLY MANNER USING A PROGRAM ACTION DOCUMENT VICE A CRASH PROGRAM TO THROW IN ONE OR TWO AIRCRAFT WITH MINIMAL SUPPORT. A LAY-IN OF ISSL ITEMS SHOULD BE PROGRAMMED, ADDITIONAL AGE SHOULD BE PROGRAMMED AND ADDITIONAL MAINTENANCE MEN SHOULD BE PROGRAMMED EITHER THROUGH FACTORY SCHOOL OR THROUGH DET TWO FOR OUT OF AT LEAST NINETY DAYS. AFTER SUFFICIENT SPARES ARE ON HAND, AGE IS ON HAND AND TRAINED MAINTENANCE PERSONNEL ON HAND, THEN THE ALB-38 AIRCRAFT SHOULD BE DEPLOYED AND NOT BEFORE.

4. DET TWO ADVISES THAT THEY HAVE FOUND THAT PROPER NAVIGATOR TRAINING IS EQUALLY IMPORTANT WITH THAT OF MAINTENANCE AND OPERATOR PERSONNEL. RECOMMEND THE IMPORTANCE OF NAVIGATOR TRAINING BE EMPHASIZED IN YOUR REPLY TO PACAF. ~~WE~~ ^{WE} ASSUME PACAF IS ALREADY AWARE OF REQUIREMENT TO SUPPORT B-2000 (Q) ENGINES.

5. IN CONCLUSION, THE TRAINING PROGRAMS SHOULD NOT REPRESENT A PROBLEM. ON THE OTHER HAND, RAPID TRANSITION WITHOUT THOROUGH PLANNING AND PREPARATION FOR ANTICIPATED MAINTENANCE PROBLEMS COULD POSE A SERIOUS THREAT TO THE SUCCESS OF THE MOVE. YOUR ESTIMATE OF MAY 71 FOR COMPLETE CAPABILITY APPEARS REALISTIC AT THIS TIME.

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
		03	03		
SECURITY				REGRADE INSTRUCTIONS	

DD

FORM 55 WHICH MAY BE USED.

DO - B
153 file
- 301
2

NNNNZCZCRDB750
RR YMRDQR
DE YMRDZ1 0028 2990652
ZNY MMNSH
R 260650Z
FM 6924SCTYSQ
TO PACSCTYRGN/DOR
6994SCTYSQ/CC
ZEN/DET 2 6994 SCTY SQ/CC
ZEM

26 OCT 1970 08 29

SUBJECT: TRANSFER OF JCAD FUNCTION (U)
1. IAW PAC SCTY RGN (OPS-A) MSG 312040Z AUG 69, THE 6924TH SCTY SQ WAS TASKED WITH PROVIDING MANPOWER RESOURCES FOR THE JOINT COURIER ACTIVITY DANAG (JCAD). IN VIEW OF THE PENDING DEACTIVATION OF THE 6924TH, IT IS SUGGESTED THAT YOUR HQ INITIATE ACTION TO TRANSFER THIS TASKING TO DET 2, 6994TH SCTY SQ. LDL MANNPOWER AUTHORIZATIONS FOR TWO R70270A TSGTS SHOULD ALSO BE TRANSFERRED TO DET. 2.
2. AS YOU ARE AWARE, THE PRIME MISSION OF THE JCAD IS TO RECEIVE AT DANANG HIGHLY PERISHABLE ACRP AND OTHER RAW DATA RECEIVED FROM COL-

LECTION/COURIER AIRCRAFT AND DELIVER IT TO THE 8TH RRFS PROCESSING CENTER AT HUE PHU BAI AND TO OTHER LOCAL DANAG AREA UNITS IN FULFILLMENT OF MACV AND 7AF REQUIREMENTS. TRANSFER OF THESE POSITIONS AND FUNCTION TO DET 2, 6994 SCTY SQ WOULD ENABLE THE USAFSS TO CONTINUE THIS TASKING AFTER OUR DEPARTURE.
3. FURTHER RECOMMEND THAT COORDINATION BETWEEN YOUR HQS AND ASAPAC BE ESTABLISHED TO ENSURE PROPER RECOMPLISHMENT OF THE MEMORANDUM OF AGREEMENT WHICH CURRENTLY EXISTS BETWEEN THIS UNIT AND THE 509TH RADIO RESEARCH GP.....
4. FOR 6994 SCTY SQ AND DET 2, 6994 SCTY SQ: REQUEST YOUR CONCURRENCE AND/OR COMMENTS BE FORWARDED TO PAC SCTY RGN WITH INFO COPY THIS UNIT.

200
0028

880/DO

NNNNZ CZ CRDA 116
RR YMRDQR
DE YHLAKZ 0018 3030209
ZNY MMNSH
R 300105Z
FM PACSCTYRGN
TO USA-32
USA-561
INFO USA-563
NSAPAC
USA-522
ZFM

30 OCT 1970 07 42

*File
30-I
CRDA*

DOR.

USA-561 PROVIDE SSLO WITH COPY OF THIS MSG.
SUBJ: JOINT COURIER ACTIVITY DANANG (JCAD).
(REF 6924SS CC, 260650Z OCT 70 (NOTAL NSAPAC, SSLO, USA-522)
1. THE FOLLOWING MSG REFLECTS HIGHER HQ NEGOTIATIONS
CONCERNING SUBJECT/REF. QUOTE.

R 282105Z
FM USAFSS
TO DIRNSA/B04
INFO PACSCTYRGN/DOR
CHIEF USAFSS FM
ZFM

DOR

SUBJ: JOINT COURIER ACTIVITY DANANG (JCAD) STATUS (C)
1. THE CURRENT JCAD MEMORANDUM OF AGREEMENT, FORMULATED BETWEEN
THE 509RRG AND 6924SS, WILL REQUIRE RENEGOTIATION PRIOR TO
CLOSURE OF THE 6924TH SS IF JCAD IS TO REMAIN A FUNCTION.
2. SINCE JCAD IS CURRENTLY AN "OUT-OF-HIDE" FUNCTION OF THE
6924TH SS AND RENEGOTIATION OF AGREEMENT/REALLOCATION OF THE
FUNCTION TO DET 2, 6994TH SS WILL NECESSITATE AN INCREASE IN DET
2, 6994TH SS MANPOWER SLOTS TO ACCOMPLISH THE TASK, REQUEST YOU
REVALIDATE THE REQUIREMENT FOR JCAD AND REQUIREMENT TO PROVIDE
RAW TRAFFIC/TAPES TO CMAS WITHIN 24 HOURS AFTER INTERCEPT.
UNQUOTE.
2. FOR USA561/USA-563. QUERY STATUS OF COMMENTS
REQUESTED IN PARA 4 OF REF.

Dolszo

235
0018

JOINT MESSAGE

SECURITY CLASSIFICATION

File
30-I
PB

TYPE MSG

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PRECEDENCE

ACTION

ROUTINE

INFO

ROUTINE

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30/0605Z

OCT 1970

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FROM: 6994 SGTY SQ

TO: PACSCTYHIN/DOR

INFO: DET 2, 6994 SGTY SQ/CC

6924 SGTY SQ/CC

SPECIAL INSTRUCTIONS

4

SUBJECT: TRANSFER OF JCAD FUNCTION (U)

REF: 6924 SGTY SQ 260650Z OCT 70

1. REVIEW OF JOINT COURIER ACTIVITY DANANG (JCAD) FUNCTION TO DATE AS TASKED BY MACV HAS DISCLOSED THAT THE REQUIREMENT FOR THIS ACTIVITY STILL EXISTS. ORIGINALLY THE JCAD WAS MANNED BY ONE ARMY AND TWO AIR FORCE PERSONNEL. IT IS CURRENTLY MANNED BY TWO ARMY AND TWO AIR FORCE PERSONNEL. EXPANSION TO TWO ARMY IS A RESULT OF AN ADDITIONAL DAILY COURIER HELICOPTER PROVIDED BY XXIV CORPS IN RESPONSE TO A MACV REQUEST IN SEP 70. THIS ADDITIONAL COURIER WAS PROVIDED TO EXPEDITE MOVEMENT OF MATERIAL FROM DANANG TO VARIOUS ARMY UNITS.

2. RECORDS AVAILABLE AT THIS UNIT AND 509TH BRG REFLECT AN AGREEMENT THAT INVOLVED THE 6924SS, 509BRG AND THE 138TH AVIATION COMPANY.

DATE	TIME
29	1635
MONTH	YEAR
OCT	1970
PAGE NO.	NO. OF PAGES
01	02

D R A F T E R	TYPED NAME AND TITLE	PHONE	SIGNATURE
	JACK BARNES, LTCOL, USAF 6924SS OPERATIONS OFFICER (ajs)	4891	
	TYPED (or stamped) NAME AND TITLE	REGRADING INSTRUCTIONS	
	LEON S. INGE, LTCOL, USAF COMMANDER		

ABBREVIATED JOINT MESSAGEFORM
and/or CONTINUATION SHEET

SECURITY CLASSIFICATION

PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE
ACTION ROUTINE	LEON S. INGE, LTCOL, USAF	JACK BARNES, LTCOL, USAF	4891
INFO ROUTINE	COMMANDER	OPERATIONS OFFICER (ajo)	

SUPPORT FUNCTIONS PREVIOUSLY PROVIDED BY THE 138TH AVIATION COMPANY AT DANANG WERE ABSORBED BY ~~DET 2, 6994 SGTY SQ~~ 6924 SGTY SQ WHEN THE 138TH MOVED TO HUE PHU BAI. THE REVISED MEMORANDUM OF AGREEMENT SHOULD BE BETWEEN 6994SS AND THE 509REG. THE TWO AIR FORCE PERSONNEL AND ASSOCIATED UIL AUTHORIZATIONS MUST BE TRANSFERRED TO DET 2, 6994 SGTY SQ IF THE JCAD FUNCTION IS TO CONTINUE *as presently MANNED.*

3. REVISION OF THE MEMORANDUM OF AGREEMENT CAN BE ACCOMPLISHED LOCALLY BY COORDINATION BETWEEN THIS HEADQUARTERS AND 509REG. HOWEVER, IN VIEW OF POSSIBLE DRAW-DOWN OF RESOURCES AND THE FACT THAT USAFSS IS NOT NORMALLY RESPONSIBLE FOR COURIER ACTIVITIES, BELIEVE WE SHOULD APPROACH MACV IN AN ATTEMPT TO BE RELIEVED OF THIS RESPONSIBILITY. WITH YOUR CONCURRENCE, WE WILL COORDINATE WITH MACV AND MRV(C) TO DETERMINE IF THERE IS ANY OTHER METHOD OR RESOURCE THAT CAN BE USED TO SATISFY THIS REQUIREMENT. REQUEST COMMENTS.

TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
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REGARDING INSTRUCTIONS				

[REDACTED] 7-19-70
DOE
#73 \$
WOW

(CCN #182)
DTG 022205Z
FM USAFSS
TO PACSCT YRGN/DOR
INFO 6994SCT YSQ
DET 2 6994SCT YSQ
ZEM

SUBJ: TRANSFER OF YCAD FUNCTION (U).
REFERENCE:

- A. PACSCT YRGN MSG DOR 322256Z OCT 70.
 - B. USAFSS MSG DOR 282105Z OCT 70.
 1. THE 6994 MSG QUOTED IN REF A. INDICATES A CONTINUED NEED FOR YCAD SERVICES AS EXPRESSED BY MACV.
 2. REF B. REQUESTS REVALIDATION OF 24-HOURS AFTER INTERCEPT DELIVERY REQUIREMENT FOR RAW TRAFFIC/TAPES BEING FORWARDED TO THE CMAS.
 3. THE REQUIREMENT FOR YCAD SERVICES IS RECOGNIZED AS VALID; HOWEVER, THERE IS NO DOCUMENTATION TO BE FOUND STATING FUNCTIONS OF YCAD ARE INDEED VALID NOR IS THERE ANY MANPOWER SPECIFICALLY AUTHORIZED IN CCP/UDL TO PERFORM THESE FUNCTIONS. FURTHER, THE SI INT TECHNICAL CONTROL AUTHORITY (NSA), AS DEFINED IN OPDOC-13, IS THE AGENCY RESPONSIBLE FOR ENSURING THAT PROCESSING/REPORTING REQUIREMENTS ARE SATISFIED VICE SIGINT OPCON AUTHORITY (MACV).
 4. IT IS OUR CONTENTION THAT THIS FUNCTION MUST FIRST BE VALIDATED BY NSA BEFORE MANPOWER RESOURCES CAN BE JUSTIFIED AND ALLOCATED TO THE UNIT PERFORMING THE YCAD FUNCTION. FURTHER, VALIDATION WOULD "SEMI-LEGALIZE" THE CURRENT SCATBACK COURIER SERVICE AND WOULD PROVIDE THE OPPORTUNITY TO PROPERLY PRESCRIBE PROCEDURES FOR HANDLING RAW TRAFFIC/TAPES IN TECHINS 1043.
 5. REF BRAVO IS DIRECTED TOWARD THIS GOAL. FYI, NSA HAS QUERIED MRV (C) ON VALIDITY OF REQUIREMENT EXPRESSED IN REF B.
 6. RECOGNIZE THAT USAFSS GND CRYPTOLOGIC COMMUNITY ARE NOT NORMALLY RESPONSIBLE FOR COURIER ACTIVITIES. HOWEVER, ORIGINAL BASIS FOR ESTABLISHMENT WAS: (1) THE REQUIREMENT WHICH CANNOT BE FOUND IN WRITING, AND (2) THE INABILITY OF (ARFCAS) AND OTHER IN-COUNTRY SYSTEMS TO DELIVER RAW TRAFFIC/TAPES WITHIN SPECIFIED TIME FRAME. BELIEVE PERFORMANCE OF FUNCTION WILL NOT BE DETRIMENTAL TO NORMAL MISSION AS MANPOWER MAY BE ALLOCATED AGAINST THIS FUNCTION.
 7. WILL ADVISE RESPONSE TO REF B.
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

NNNN

NNNNZCZ
RR YMR
DE YHLAKZ 0051 3282139
ZNY MNNISH
R 242130Z
FM PACSCTYRGN
TO 6994SCTYSQ/DO
ZEM

[REDACTED]

FILE
JCAD WORKING FILE
DO
24 NOV 1969
59

547

SUBJ: JCAD COURIER FUNCTION
REF YOUR DO 180100Z NOV 70.

1. DIRNSA MSG B04-125-70 IS PARAPHRASED FOR YOUR INFO AND GUIDANCE.
2. AS A RESULT OF THE PENDING CLOSURE OF USA-32, THE JCAD MEMORANDUM OF UNDERSTANDING DATED 29 SEP 1969 WILL BE RENEGOTIATED BY 509TH RR GP AND 6994TH SCTY SQ UNDER MACV J-2 AUSPICES. MACV ORIGINALLY TASKED 09TH RR GP/6924TH J-2 ESTABLISH JCAD AND ANY CHANGES/MODIFICATIONS TO THE PRESENT AGREEMENT MUST HAVE MACV J-2 CONCURRENCE.
3. THE MACV J-2 POSITION IS THAT THE 24-HOUR GDRS REPORTING REQUIREMENT FROM TO1 TO ISSUING OF PRODUCT REMAINS VALID.
4. USAFSS/DOR IS SUBMITTING APPROPRIATE MANNING REQUEST TO TRANSFER TWO 702X0'S FROM FC 1100, 6924TH TO DET 2, 6994TH SCTY SQ.

[Handwritten mark]

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Who will be the OPR on this?
DO Capt Saylor

[REDACTED]

[REDACTED]

NNNN
3282300

374

17 OCT 1970 19

DO

NNNTCZCRDA838ZCZCRDA839
 RR YMRDOR
 DE YWQADK 0013 3351628
 ZNY MMNSH
 R 211545Z
 FM USAFSS
 TO PACSCTYRGN (DOR/DOA)
 INFO 6994SCTYSQ
 DET 2 6994SCTYSQ
 6924SCTYSQ
 ZEM

SUBJECT: JCAD FUNCTION (U)
 REFERENCE PAC SCTY RGN MSG DOA 212125Z OCT 70.
 1. A MANPOWER CHANGE REQUEST HAS BEEN APPROVED TO PROVIDE TWO
 TSG 70270A SPACES TO DET 2, 6994TH SS FOR THE JCAD FUNCTION.
 THESE ADDITIONAL SPACES WILL BE REFLECTED IN DEC 70 HAF-039
 AND ARE EFFECTIVE BEGINNING FY2/71. COPYNNF MCR BEING PROVIDED
 TO YOUR HQ (DOMX).
 2. REQUEST YOU INITIATE ACTION TO RENEGOTIATE MEMORANDUM OF
 AGREEMENT FOR JCAD FUNCTION BETWEEN 509TH RRG AND DET 2, 6994TH
 SS.

140
 0013

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[REDACTED]

MEMORANDUM OF AGREEMENT

FOR

JOINT COURIER ACTIVITY - DANANG (JCAD)

BETWEEN

509TH RADIO RESEARCH GROUP

AND

6994TH SECURITY SQUADRON

I. INTRODUCTION: This memorandum supersedes all previous agreements concerning the establishment and operation of a Joint Courier Activity - DaNang (JCAD) and will become effective 1 January 1971. The JCAD was initially established in June 1969 in fulfillment of tasking levied by MACV/J2 and directly involved the 509th Radio Research Group (509RRG), the 138th Aviation Company, and the 6994th Security Squadron (6994SS). In early October 1969, the 6924th Security Squadron (6924SS) assumed responsibilities previously attached to the 6994SS. This memorandum provides for the continuity of JCAD operations in response to MACV/J2 requirements by tasking the 8th Radio Research Field Station (8RRFS) at Phu Bai with direct responsibility for JCAD operations, and Detachment 2, 6994 SS (Det 2, 6994SS), DaNang Airfield with specific support and liaison responsibilities previously assigned to the 6924SS.

II. RESPONSIBILITIES:

a. The 509RRG will:

(1) Retain overall responsibility for the management and operation of the JCAD and monitor operational effectiveness.

(2) Effect coordination with MACV to provide JCAD authority to obtain necessary "blocked booking" on all 834th Air Division/15th Aerial Port Squadron aircraft.

(3) Effect all other coordination with MACV/NRV(C).

b. The 8RRFS will:

(1) Directly supervise JCAD operations.

(2) Provide administrative support as necessary:

(a) Publish orders, furnish clearance status and identification cards for 8RRFS JCAD personnel.

(b) Provide other support as appropriate.

[REDACTED]

[REDACTED]

[REDACTED]

(3) Provide NCOIC JCAD Operations (E-7) and one additional NCO (E-6).

(4) Effect necessary coordination with all flying organizations concerned to ensure courier space is made available when required by JCAD personnel.

(5) Provide two vehicles for JCAD operation (3/4 ton truck and jeep).

(6) Provide for vehicle maintenance by separate agreement with XXIV Corps.

c. Det 2, 6994SS will:

(1) Act as local JCAD liaison and will provide coordination assistance and guidance as required to ensure efficient operation.

(2) Provide two NCOs for JCAD (E-6).

(3) Provide administrative support as necessary:

(a) Publish orders and furnish clearance status for Det 2, 6994SS JCAD personnel.

(b) Provide message and class A telephone service for JCAD.

(c) Provide courier bags as needed.

(d) Provide other support as appropriate.

(4) Provide operating/storage space for JCAD within a secure SI area.

(5) Coordinate Ramp space for courier transfer.

(6) Furnish weapons for two Det 2, 6994SS courier personnel.

(7) Furnish JCAD with a copy of flight schedules and forecasts (HEADSTRONG) and any other available information which would enhance the timely and effective transfer of courier materials.

(8) Provide billeting and coordinate messing facilities for all JCAD personnel.

(9) Coordinate with DaNang Airfield to provide PCL support (non-reimbursable) for operations of JCAD vehicles.

III. CONCEPT OF OPERATION: JCAD personnel will meet all collection and courier aircraft at DaNang Airfield as directed by the Commanding Officer 509th RRG, and the Commander, 6994th SS in fulfillment of MACV and 7th Air Force requirements for timely movement of perishable material. Material will be couriered from DaNang Airfield to Hue-Phu Bai aboard aircraft made available by the 138th Aviation Company (RR), the 7AF/834th

[REDACTED]

[REDACTED]

Air Division, and any other aircraft on authority issued by MACV. In his official capacity, the NCOIC of JCAD is authorized direct coordination with all offices and activities on DaNang Airfield and all units of the 509th RRG and the 6994th SS. All JCAD requests for assistance from higher headquarters will be directed to the 8th RRFS with information copies going to the 509th RRG and Det 2, 6994th SS. The NRV(C) will be an information addressee on all correspondence concerning the operations of JCAD. Official incoming and outgoing JCAD correspondence will be routed through the 8th RRFS as appropriate. Electrical correspondence for JCAD will be addressed to Det 2, 6994th SS, with internal instructions to pass to JCAD. Mail correspondence for JCAD will be addressed to Det 2, 6994th SS, APO San Francisco 96337 (ATTN: JCAD). All official contacts with JCAD will be approved in advance by the Commanding Officer, 8th RRFS or the Commander, Det 2, 6994th SS.

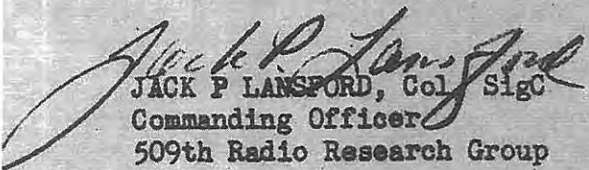
IV. OPERATING PROCEDURES: JCAD will operate on a 24 hour basis required to support the concept of operations outlined above. JCAD operating locations will be within facilities of Det 2, 6994th SS. JCAD personnel will be allowed unrestricted access to Det 2, 6994th SS in the performance of official duties. JCAD courier identification procedures, orders and messages will be currently maintained, performed and processed according to procedures agreed upon by the Commanding Officer, 8th RRFS and the Commander, Det 2, 6994th SS. All JCAD personnel will be billeted at Det 2, 6994th SS.

V. CHANGES AND AMENDMENTS: Changes and amendments to this memorandum of agreement may be recommended at any time jointly by the Commanding Officer, 8th RRFS, and the Commander, Det 2, 6994th SS in coordination with immediate headquarters. If a unilateral amendment is directed by higher headquarters or one of the two parties to this memorandum, complete coordination between both parties will be assured before any action is taken which affects the capability or mission of JCAD.

AGREED TO:

31 December 1970
(date)

29 December 1970
(date)


JACK P LANSFORD, Col, SigC
Commanding Officer
509th Radio Research Group


LEON S INGE, Lt Col, USAF
Commander
6994th Security Squadron

XX

ROUTINE

060740Z

AUG 70

6994 Scty Sq

PACSCYBGN/DOR

INFO: USAFSS/DOR

[Redacted]

SUBJ: UPDATE OF A/A TIP-OFF EXERCISE.

Ce R/F

1. On Sunday 2 Aug 7AF DI directed resumption of coordinated photo recon/EC-47 mns. Photo recon will be RF-101 which has KY-28 secure voice capability. We are investigating poss of passing fix info using KY-8 instead of KAC-WHEEL by carrying an extra KYK-3 keyed to the RF-101 keys. This would give us capability to work both nets. Query is there are any restrictions which would prevent using this procedure. No firm date on actual resumption of coordinated mns but planning is underway.

2. Status of A/G/A GRC-27: All equipment is now installed and operational in plaintext mode, however, will not operate in cipher mode. Suspect bad ground adapter card, troubleshooting at this time.


6

AUG 70

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4891

Capt Belcher/eds


 GARY D. BELCHER, Captain, USAF
 Asst Operations Officer

[Redacted]

[Redacted]

JOINT MESSAGEFORM



RF

[REDACTED]			TION
TYPE MSG	OK	MULTI	SINGLE
		XXXX	

PRECEDENCE

ACTION ROUTINE

INFO

DTG 180736Z Aug 78

FROM: 6994 SCTY SQ TAN SON NHUT AB VIETNAM

TO: PACSCTYRGN/DOR/

INFO: USAFSS/DOR/

SPECIAL INSTRUCTIONS



SUBJ: UPDATE OF A/A TIPOFF EXERCISE.

- COORDINATED EC-47/RF-101 MISSION TEST ENDED FRI 14 AUG. TESTS WERE CONDUCTED ON FOUR DAYS. TWENTY NINE FIXES WERE PASSED RESULTING IN SIXTEEN PHOTO RUNS WHICH YIELDED NO SIGNIFICANT RESULTS. TARGETS WERE COSVN HQS (FOO03) AND COSVN TAC CONTROL CENTER (M-4181). ATTEMPTS TO USE KY-8 TO PASS FIXES WERE UNSUCCESSFUL, PROBABLY DUE TO HIGH ALTITUDE OF RF-101 WHICH CAUSED SIGNAL BLANKING BY EC-47 FUSELAGE.
- OUR PROGRAM OF PASSING FIXES TO 7TH AF DIOR FOR PAC TARGETTING CONTINUES TO YIELD GOOD RESULTS. RESULTS SHOW THAT BETWEEN 1 JUL AND 14 AUG 313 TAC AIR STRIKES WERE FRAGGED FOR CAMBODIA, 109 OF WHICH WERE BASED SOLELY ON ARDF RESULTS AND 20 ON ARDF/PAC VR. POSITIVE BDA HAS BEEN REPORTED ON 31 PER CENT OF THE STRIKES GENERATED BY ARDF.

DATE	TIME
MONTH	YEAR
AUG	1978
PAGE NO.	NO. OF PAGES
1	1

D R A F T E R	TYPED NAME AND TITLE	PHONE	SIGNATURE
	CAPT BELCHER	4641	
			TYPED (or stamped) NAME AND TITLE
			GARY D. BELCHER, Captain, USAF

REGARDING INSTRUCTIONS

[REDACTED]

cc R/F

3

ABBREVIATED JOINT MESSAGEFORM
and/or CONTINUATION SHEET

ATION

PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE.
ACTION ROUTINE INFO	CAPT BELCHER	CAPT BELCHER	4641

3. A/G/A GRC-27 OPERATIONAL AS OF 17/0930Z. EXTENSIVE REWIRING WAS NECESSARY TO ACHIEVE CIPHER COMMS.
4. REQUEST YOUR CONCURRENCE IN DISCONTINUING WEEKLY REPORTING, LIMITING REPORTS TO SIGNIFICANT ITEMS/ACHIEVEMENT ONLY.

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
		2	2		<i>JB</i>

SECURITY

TYPE MSG

BOOK

MULTI

SINGLE

I

PRECEDENCE

ACTION

ROUTINE

INFO

DTG

FROM: 6994 SGTY SQ TAN SON NHUT AB, RVN

TO: PAC SGTY RGM (DCR)

INFO: USAFSS (DCR)

SPECIAL INSTRUCTIONS

SUBJ: UPDATE AIR TO AIR TIP OFF/EC-47, RFA PHOTO OPERATION.

1. AN EFFORT HAS BEEN UNDERWAY SINCE 2 NOV TO FURTHER EVALUATE TACTICAL EFFECTIVENESS OF EC-47/RFA COORDINATED SORTIES. THE RFA IS FRAGGED AGAINST PREPLANNED TARGETS DERIVED FROM FIXES PROVIDED BY THE 6994 SS ON A DAILY BASIS TO 460 TRW INTELLIGENCE. THESE FIXES ARE COMPRISED ^{OF} TARGETS IN CAMBODIA WITH A CEP OF 1000 METERS OR LESS AND ARE PASSED TO THE 460TH TRW BLT 0700 EACH MORNING VIA KY-3.
2. THE RFA FLIES PHOTO RUNS ON AN AVERAGE OF FOUR PREPLANNED LOCATIONS AND ON THOSE FIXES PASSED AIR TO AIR. FROM 2-25 NOV, 257 FIXES WERE PASSED VIA KY-3 WITH 107 OF THESE BEING PHOTOGRAPHED. DURING THIS SAME PERIOD EIGHT FIXES WERE PASSED AIR TO AIR WITH FIVE BEING PHOTOGRAPHED. OF THE 112 TARGETS PHOTOGRAPHED DURING THE 25 SORTIES, FOUR PRODUCED SIGNIFICANT RESULTS. (I.E. SMALL HUTS AND POSSIBLE LONGWIRE ANTENNA CONFIGURATIONS). ONLY ONE OF THESE FOUR WAS ACTUALLY STRUCK WITH NEGATIVE EDA SINCE TARGET WAS MISSED.

DATE	TIME
2	0900
MONTH	YEAR
DEC	70
PAGE NO.	NO. OF PAGES
1	2

TYPED NAME AND TITLE

PHONE

SIGNATURE

D
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Capt Sayles/drs

4641

R
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E
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R

TYPED (or stamped) NAME AND TITLE

JACK BARNES, Lt Col, USAF
Operations Officer

SECURITY CLASS

REGRADING INSTRUCTIONS

ABBREVIATED JOINT MESSAGEFORM
and/or CONTINUATION SHEET

SECRETION

PRECEDENCE	RELEASED BY
ACTION ROUTINE	Lt Col Barnes
INFO	

3. IN AN EFFORT TO IMPROVE EFFECTIVENESS, A 6994TH ANALYST HAS BEEN EXAMINING PHOTOS IN CONJUNCTION WITH 460 TRW PIS TO ASSIST IN ISOLATING ANY INDICATIONS OF COMM ACTIVITY OR CAPABILITY.
4. WILL KEEP YOU ADVISED OF ANY FURTHER RESULTS.

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
			2		
REGRADING INSTRUCTIONS					

JOINT MESSAGEFORM

SECURITY

TYPE MSG

BOOK

MULTI

SINGLE

1

PRECEDENCE

ACTION

IMMEDIATE

INFO

DTS

090837Z Dec 70

FROM: 6994 SCTY SQ TMS RVE

SPECIAL INSTRUCTIONS

TO: PACSCTY RGN (DOR)

DELIVER DURING FIRST DUTY HOUR.

SURJ: A/A TIPOFF.

REF: A. YOUR DOR 060142Z DEC 70.

B. USAFSS DOR 041340Z DEC 70.

1. REGRET WE CANNOT RENDER AN OPTIMISTIC REPORT ON THE CURRENT AND PROJECTED STATUS OF THE AIR/AIR TIPOFF PROGRAM, HOWEVER THE FACTS OF LIFE ARE VERY REAL. EFFECTS OF THE US DRAGDORN HAVE IMPACTED ON EVERY ASPECT OF OPERATIONS. WE HAVE JUST RECENTLY LEARNED THAT 7AF DO HAS SIGNED A PAPER ELIMINATING THE ARDF/PHOTO RECCG A/A TIPOFF PROGRAM. THIS PAPER HAD CONCURRENCE OF 7TH DI ALTHOUGH HE NOTED IN HIS INDORSEMENT THAT THE CONCEPT OF A/A ARDF/PHOTO COORDINATION WAS BASICALLY SOUND AND SHOULD BE RESERVED FOR FUTURE CONTINGENCY USE.

2. IN GENERAL THE ATMOSPHERE WHICH PREVAILS TODAY IS TYPIFIED BY THE FOLLOWING FACTORS:

A. RESOURCES ARE AUSTERE. NO LONGER IS THERE AN UNLIMITED SORTIE POTENTIAL. SORTIES ARE ALLOCATED WITHIN A RIGID PRIORITY SYSTEM AND

DATE	TIME
9	1600
MONTH	YEAR
DEC	70
PAGE NO.	NO. OF PAGES
1	

D R A F T E R	TYPED NAME AND TITLE	PHONE	SIGNATURE
		4821	
			TYPED (or stamped) NAME AND TITLE GARY D BELCHER, Capt, USAF Asst Operations Officer
SECURITY CLASSIFICATION		REGRADING INSTRUCTIONS	

ABBREVIATED MINT MESSAGEFORM
and/or CONTINUATION SHEET



PRECEDENCE	RELEASED BY		
ACTION	Capt Balcher	Capt Balcher	4891
INFO			

7

PRACTICALLY NO STRIKES ARE LAID ON WITHOUT MULTIPLE SOURCE JUSTIFICATION. ARDF CAN AND DOES GENERATE PHOTO RECCE ACTION WHICH, IF POSITIVE, BECOMES A SECOND CONTRIBUTOR TO SUBSEQUENT STRIKE ACTION.

B. USE OF ORDNANCE IS A VERY TIGHTLY CONTROLLED. NO LONGER IS THERE A WIDE RANGE OF DISCRETIONARY AUTHORITY FOR EXPENDITURES.

C. USAF SORTIES ARE DRASTICALLY REDUCED AND MORE AND MORE SORTIES ARE BEING ALLOCATED TO VNAF. IN FACT, WHEN NEXT DAY FRAG IS BRIEFED TO CG, 7TH AF, SPECIFIC JUSTIFICATION MUST BE GIVEN FOR ALL USAF SORTIES.

D. FAC RESOURCES ARE AUSTERE AND EVER INCREASING PRIORITY IS BEING ATTACHED TO THEIR FUNCTION. THERE IS NO SURPLUS CAPABILITY, AND WHILE FACS, LIKE PHOTO RECCE, ARE SOMETIMES FRAGGED IN EFFORTS TO SUBSTANTIATE SIGNIFICANT ARDF RESULTS, THEY ARE NOT BEING USED IN CONJUNCTION WITH ARDF.

3. CONTACT TODAY WITH 7TH AF DO SOURCES INDICATE THAT THERE IS NO MOVE IN PROGRESS AT THIS TIME TO BRING FACS INTO THE PROGRAM, HOWEVER THEY HAVE INDICATED THEY WILL AGAIN BRING THE SUBJECT UP TO DETERMINE IF THERE IS ANY REAL POSSIBILITY FOR IMPLEMENTING THE PROGRAM IN THE NEAR FUTURE. AN ITEM OF INTEREST IS A MESSAGE 7TH AF RECEIVED RECENTLY FROM 7/13AF AT UDORN IN WHICH THEY RELATED A REQUEST FROM CAS VIENTIENE REQUESTING THE WORKING FREQUENCIES OF

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
SECURITY				INSTRUCTIONS	

ABBREVIATED JOINT MESSAGEFORM
and/or COMBINATION SHEET

CLASSIFICATION

PRECEDENCE	RELEASED BY		
ACTION IMMEDIATE	[REDACTED]		
INFO	Capt Belcher	Capt Belcher	4891

THE EC-478 OPERATING IN SOUTHERN LAOS. PURPOSE OF THE REQUEST WAS TO ENABLE TIMELY GUIDANCE TO BE PASSED TO RAVEN PACS OPERATING IN THAT AREA. 7TH AF IS NOW SEEKING CLARIFICATION OF THE MSG, WHICH WAS SOMEWHAT HAZY IN MEANING, AND IF THE INTENT IS TO IMPLEMENT A PAC TIPOFF PROGRAM WE WILL ADVISE.

4. FOR THE RECORD IT SHOULD BE REALIZED BY ALCON THAT A PRIMARY IMPETUS BEHIND PREVIOUS TESTS OF THIS CONCEPT WAS THE 460TH TFW ITSELF WHICH HAD A VESTED INTEREST IN FULLER EXPLOITATION OF ITS PHOTO RECCE RESOURCES. THERE IS CONSIDERABLY LESS LATITUDE IN THIS RESPECT AT THIS TIME.

5. IN SUMMARY WE AGREE THAT THE POTENTIAL FOR COORDINATED ACTIVITY IS GOOD AND DESIRABLE, HOWEVER IT WOULD APPEAR THAT OUR EFFORTS ARE BEING OVERTAKEN BY EVENTS. THE PROCEDURES FOR EXECUTING THIS PROGRAM ARE SIMPLE AND WE HAVE THE CAPABILITY TO IMPLEMENT AT WILL AS THE OPPORTUNITY PRESENTS ITSELF. WE STAND READY TO PARTICIPATE IN ANY MANNER POSSIBLE.

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
SECURITY	REGARDING INSTRUCTIONS				

DD

FORMS WHICH MAY BE USED.

JOINT MESSAGEFORM

RESERVED FOR COMMUNICATION CENTER

[REDACTED]

[REDACTED]

TYPE MSG

ANGLE

X

PRECEDENCE

ACTION ROUTINE

INFO

DTG

16/0745Z JUN 70

FROM: 6994 SCTYSQ

TO: PACSCTYRGN/DO

SPECIAL INSTRUCTIONS

SUBJ: UPDATE OF AIR-TO-AIR TIP OFF EXERCISE.

REF 6994 SCTY SQ 290906Z MAY 70. FIRST MISSION FLOWN ON 3 JUN 70. FIRST WEEK OF EXERCISE COMPLETED WITH EC-47 PASSING FIXES TO AN F-4 PHOTO RECON BIRD IN THE AREA. THE EXERCISE WAS CONTINUED WITH SOME MODIFICATION WHILE RESULTS OF FIRST WEEK WERE BEING REVIEWED. DURING THE SECOND WEEK THE F-4 DID NOT ORBIT THE AREA. AT 0700H EACH MORNING SELECTED FIXES FROM THE PREVIOUS DAY WERE SANITIZED AND PASSED TO 460 TRW WHO THEN LAUNCHED THE PHOTO RECON TO PHOTOGRAPH THE SELECTED TARGETS. RESULTS HAVE NOT BEEN EARTH-SHAKING BUT A FEW PHOTOS DISCLOSED RECENTLY USED TRAILS, A FEW HUTS AND ONE EXCELLENT SHOT OF A CAMOUFLAGED TRUCK ON A WELL USED TRAIL. IN A MEETING WITH 7AF DIOR, 7AF DITTD (TARGETING), AND 460 TRW YESTERDAY A PLAN WAS DEVISED AND COORDINATED WITH NRV(C) WHEREBY INCREASED RESULTS MIGHT BE OBTAINED. PLAN IS: AT APPROX 1600H EACH DAY WE WILL PASS FIXES OF 1000 METERS OR LESS FROM SELECTED AREAS IN SOUTHEASTERN AND NORTHEASTERN CAMBODIA TO 7AF DIOR. DIOR WILL SANITIZE THE FIXES AND PASS THEM TO 7AF

DATE	TIME
16	1525
MONTH	YEAR
Jun	70
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1	2

DITTD (TARGETING) WHO WILL TASK A FAC TO COVER THE AREAS THE FOLLOWING

D R A F T E R	TYPED NAME AND TITLE	PHONE
	SAME AS RELEASER	4437

R E L E A S E R	SIGNATURE
	SIGNED
TYPED (or stamped) NAME AND TITLE	
JACK BARNES, Lt Col., USAF	
Commander	

[REDACTED]

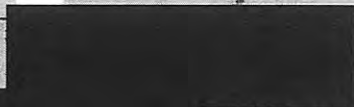
[REDACTED]

DD FORM 173 1 NOV 69

REPLACES EDITION OF 1 MAY 55 WHICH MAY BE USED.

☆ GPO 1969-357-981

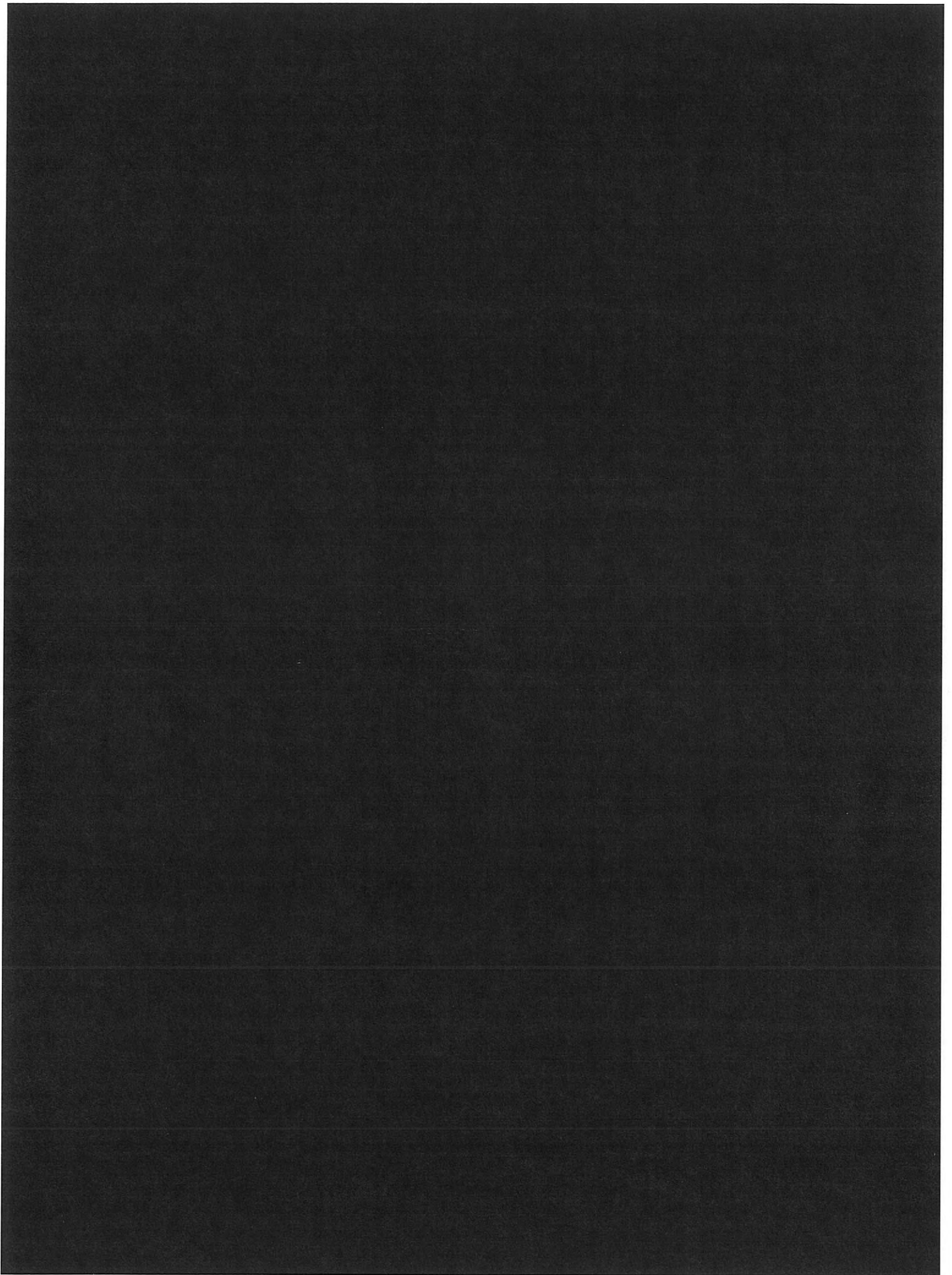
ABBREVIATED INT MESSAGEFORM
and/or CONTINUATION SHEET

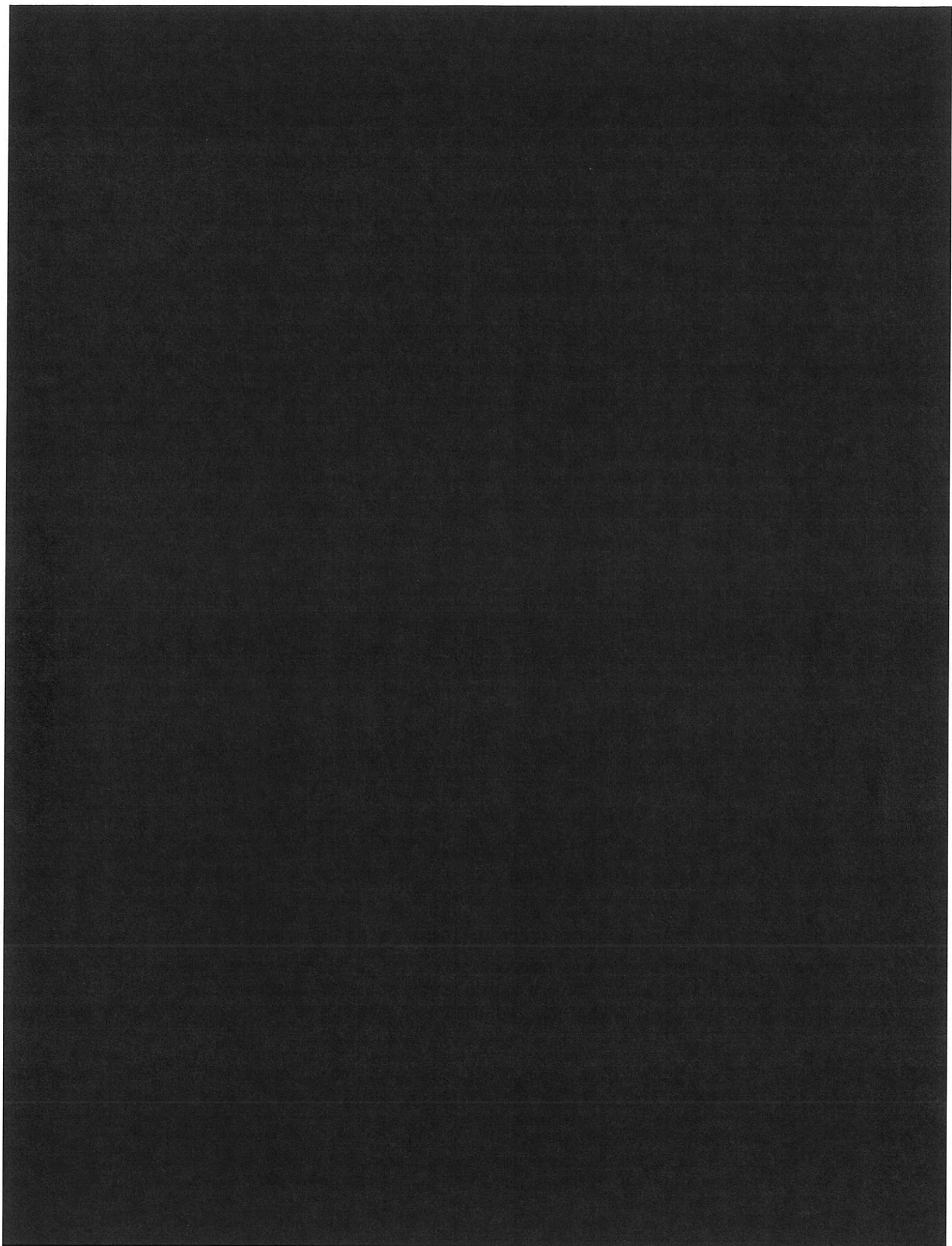


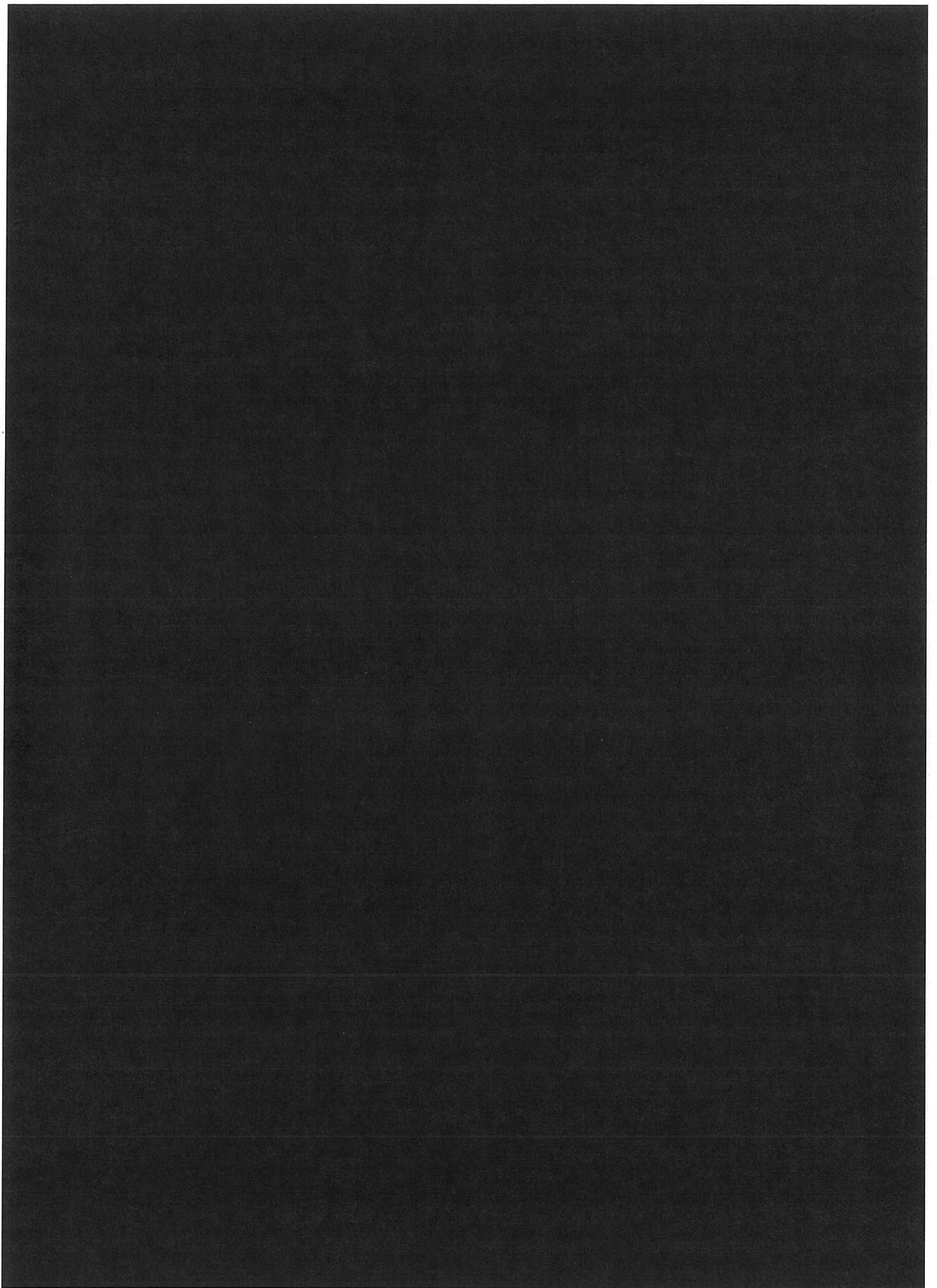
PRECEDENCE	RELEASE	PHONE
ACTION ROUTINE	LT COL BARNES	4437
INFO	LT COL BARNES	

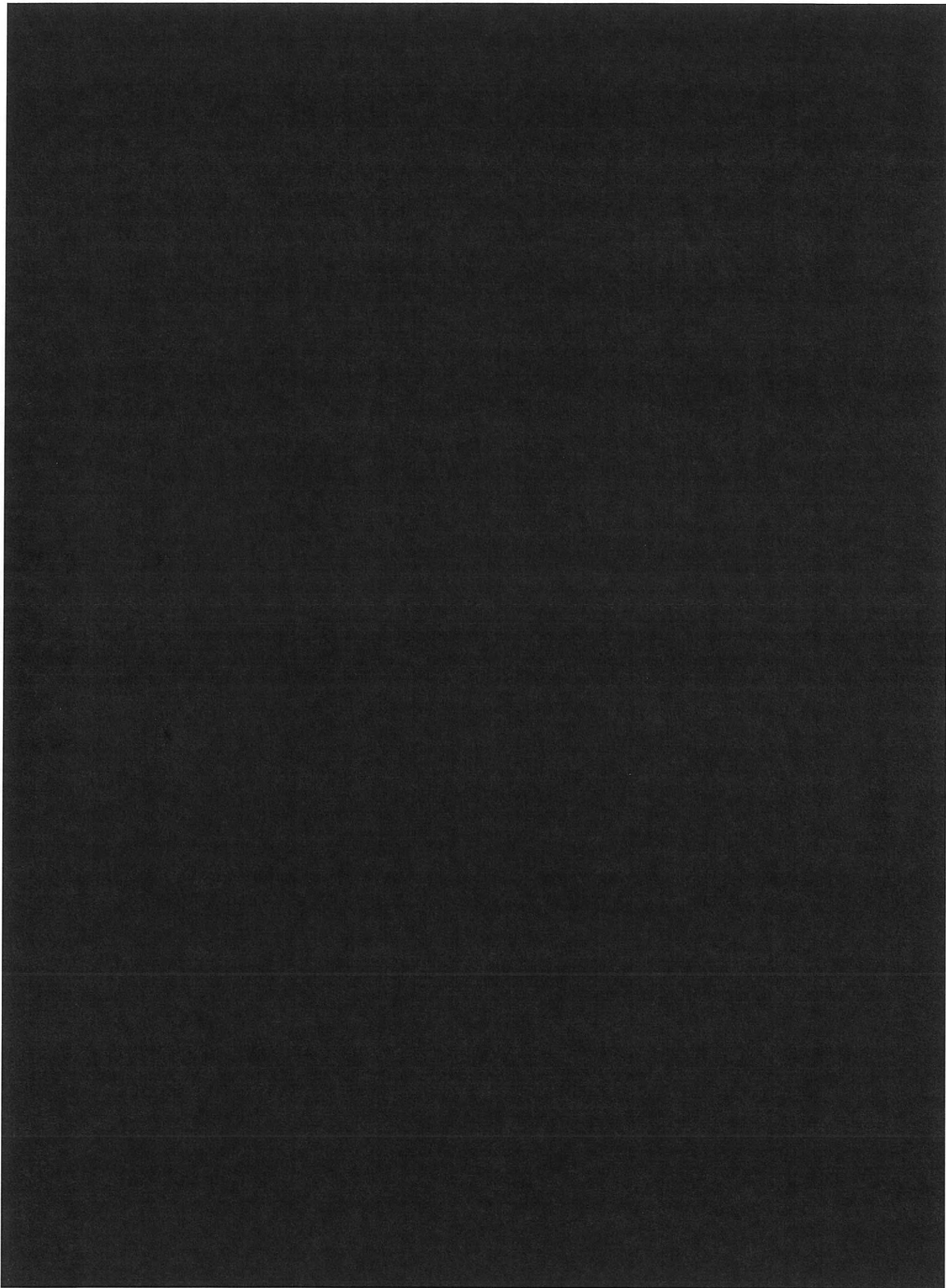
MORNING. IT IS CONCEIVABLE THAT THE FAC WILL DIRECT AIR STRIKES ON TARGETS IN FREE STRIKE ZONES. THIS PROCEDURE INITIATED 16 JUNE. IN ALL INSTANCES ~~ONLY~~ THE ONLY INFO PASSED TO PHOTO-RECON OR 7AF DIYTD IS FIX COORDINATES, RADIUS OF FIX AND SANITIZED IDENTIFICATION (TRUE UNIT DESIGNATOR). WILL ADVISE OF FUTURE DEVELOPMENTS. INSTALLATION OF KY-8 WILL EXPEDITE EFFORTS SUCH AS THIS.

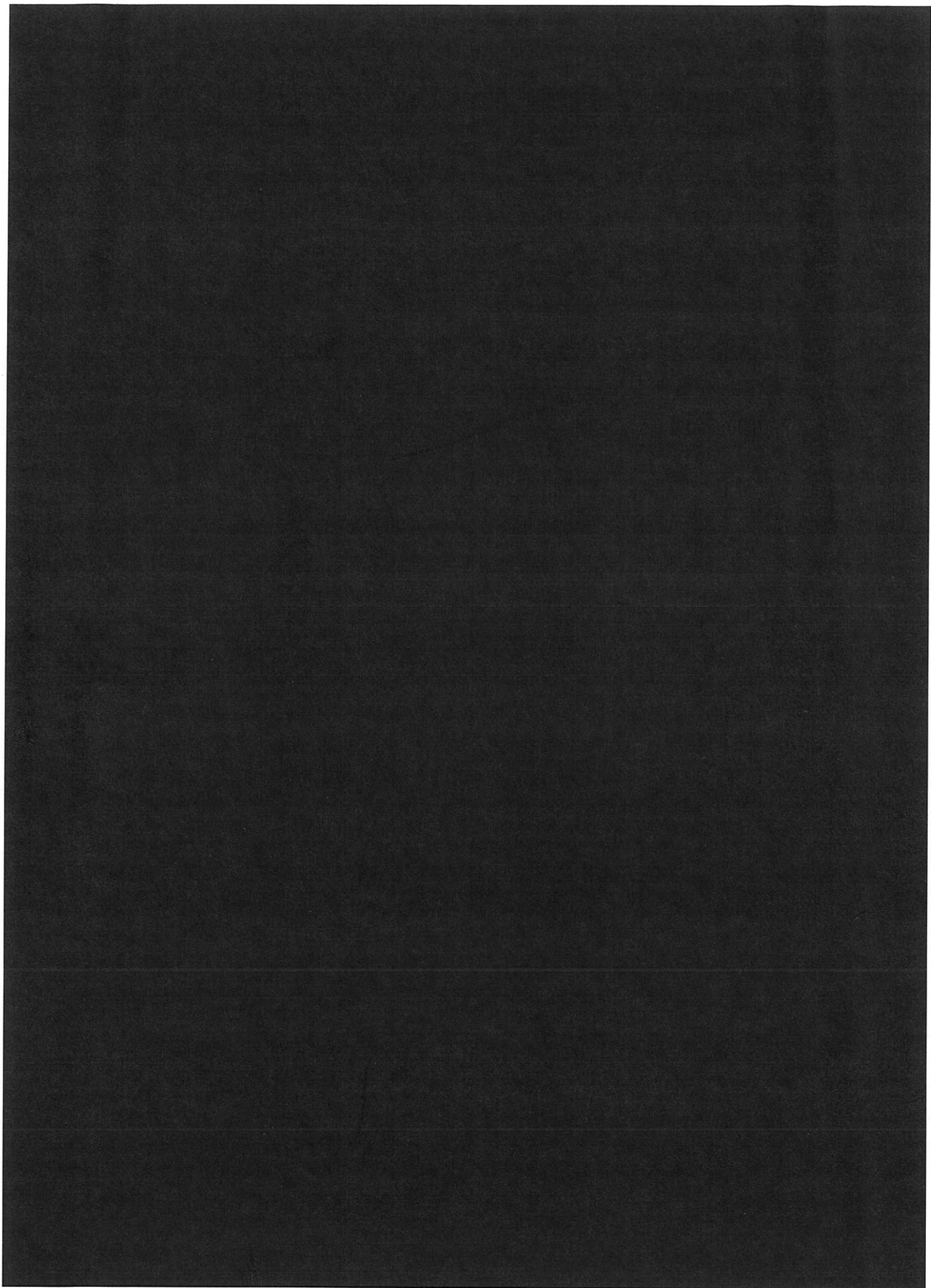
CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
REG#				SECURITY CLASSIFICATION	











file 107000

JUL 10 8:20

1920818Z OZ CRIDA 025
RR WRD QR
DE WY QADK 8 191135Z
R 101351Z
FM USAFSS
TO PAC80T YRGN
INFO 6994 SGT YSQ
ZEM

169

SUBJ: OPERATIONAL TEST OF RFP IN AIRBORNE PLATFORM (ARFP) (U)
REF: D OY DTG 061930Z MAY 70.

1. THE FOLLOWING IS PROVIDED AS BACKGROUND FOR YOUR INFO:
 A. WE ARE PRESENTLY PLANNING TO CONDUCT AN OPERATIONAL
 RESIBILITY TEST OF THE ARMY-DEVELOPED LEFAIR KNEE RFP
 SYSTEM ABOARD AN SEA-BASED, GROUP A WIRED COMBAT CROSS ACFT
 (PROJECT COMFY MAG). TEST WILL BE DESIGNED TO DETERMINE
 LEFAIR KNEE'S CAPACITY TO INCREASE ID RATE ON AJFF FIXES/
 CUTS WHICH ARE COMMUNICATED AIR-TO-GROUND DURING MISSIONS.
 B. TEST IS CONTINGENO UPON MACV RESPONSE TO NSA REQUEST
 FOR PERMISSION TO RUN THE TEST, AND TEST SCHEDULE DEPENDS ON
 DATE OF RECEIPT OF EQUIPMENT TO BE BORROWED FROM ASA, TIME RE-
 QUIRED TO FABRICATE A LEFAIR KNEE POSITION AT THIS HQ, AND
 TIME REQUIRED TO SHIP THIS POSITION TO SEA TEST SITE.
 2. DRAFT OF TEST DIRECTIVE IS BEING COORDINATED WITHIN THIS
 HQ. A COCY WILL BE PROVIDED TO YOU FOR YOUR REVIEW AND COMMENT
 BEFORE START OF THE TEST.

IN PLAIN OR ENCRYPTED
RECORDS
IN PLAIN OR
IN ENCRYPTED

[REDACTED]

[REDACTED]

ON JULY 27, 1952, THE
FEDERAL BUREAU OF INVESTIGATION
RECEIVED A LETTER FROM
A PERSON WHO IDENTIFIED HIMSELF AS
A MEMBER OF THE "BLACK PANTHER PARTY"
AND REQUESTED THAT THE FBI
CONTACT THE "BLACK PANTHER PARTY"
IN NEW YORK CITY TO OBTAIN
A LIST OF ALL MEMBERS OF THE
"BLACK PANTHER PARTY" WHO
WAS IN CONTACT WITH THE
"BLACK PANTHER PARTY" IN
NEW YORK CITY. THE FBI
ADVISED THAT THE "BLACK
PANTHER PARTY" IS A
COMMUNIST FRONT ORGANIZATION
AND THAT IT IS PROHIBITED
UNDER FEDERAL LAWS. THE
FBI IS CURRENTLY CONDUCTING
AN INVESTIGATION OF THE
"BLACK PANTHER PARTY" AND
IS REQUESTING THAT YOU
CONTACT THE "BLACK PANTHER
PARTY" IN NEW YORK CITY
AND OBTAIN A LIST OF ALL
MEMBERS OF THE "BLACK
PANTHER PARTY" WHO
WAS IN CONTACT WITH THE
"BLACK PANTHER PARTY" IN
NEW YORK CITY. THE FBI
WILL BE GRATEFUL IF YOU
CAN ASSIST IN THIS MATTER.

cc/ssk

[REDACTED]

[REDACTED]

PLEASE PROVIDE ADDITIONAL DETAILS AS THEY BECOME AVAILABLE.

File
File
67
1/18
DRM

ROUTINE

* UNCLASSIFIED E F T O *

PT 00000
RTTEZYUW RUWTEJAG000 3212137-EEEE--RUMRSA.
ZNY EEEEE
R 172000Z NOV70
FM USAFSS
TO RUMRSA/PACACTYR/TOM/INTELEN AFB HA
INFO RUMRSA/SPACTYR/OPS/TAN SON NGUT AFLD RVN
BT

UNCLAS E F T O DTG

SUBJ: COMFY HAS.

REF MY BOY 100000Z OCT 70. START DATE FOR COMFY HAS TEST
HAS BEEN DELAYED TO APPROXIMATELY 1 FEB 71. THEATER
CLEARANCE REQUEST FOR 1LT LIPS AND SGT COOPER HAS BEEN
FORWARDED. DATE OF ENTRY TO SEA REQUESTED IS 1 FEB 71.
ITINERARY REQUESTED FOR 1LT LIPS: 1 FEB - 20 FEB AT 0900 SS;
1-4 MAR AT PSR. SGT COOPER WILL REMAIN IN THEATER THROUGH
CONCLUSION OF THE TEST (ESTIMATE 15 MAR 71).

BT

NO000

NNNN

NOV 18 15 13 1970

ROUTINE

* UNCLASSIFIED E F T O *

JOINT MESSAGEFORM

File
30A
AD

SEC [REDACTED]

TYPE MSG

BOOK MULTI SINGLE

X

PRECEDENCE

ACTION

PRIORITY

INFO

DTG

230215Z DEC 70

FROM:

6994 SCTY SQ

TO:

PAC3CTYRCN/DOR/SP

SPECIAL INSTRUCTIONS

SUBJECT: WATER SOLUABLE PAPER, WAIVER

REF: A. USAFSS MSG 251610Z FEB 70, SAME SUBJECT

B. USAFSS/SP LIR DTD 07 JUL 70, WAIVER TO PARA 11-3B, USAFSSM 205-7.

- REF A GAVE THIS UNIT WAIVER SO THAT THE NSA TASKING LISTING AND MISSION PRIORITY LISTING (CHERRY SHEETS) COULD BE CARRIED ABOARD MISSION ACFT WITHOUT BEING PRINTED ON WATER SOLUABLE PAPER. WAIVER TO EXPIRE 31 JULY 70. REF B EXTENDED THE WAIVER UNTIL 31 DEC 70, and INCLUDED HESTIA PADS.
- REQUEST CONTINUATION OF WAIVER OR ADVISE IF OTHER ACTION CONTEMPLATED.

DATE	TIME
MONTH	1855
DEC	70
PAGE NO.	NO. OF PAGES
01	01

TYPED NAME AND TITLE

PHONE

4891

RELEASE

SIGNATURE

TYPED (or stamped) NAME AND TITLE

GARY D. BELCHER, CAPT, USAF

COMMANDING INSTRUCTIONS OFFICER

File 1903
30A

[REDACTED]

5 DEC 1970 05 02

DO

3590458ZCZCRDB830944
PP YMRDOR
DE YHLAKZ 0003 3590225
ZNY MMNSH
P 242015Z
FM PACSCTYRGN
TO USAFSS/SP
INFO 5994SCTYSO/33
ZEM

SUBJ: WATER SOLUBLE PAPER, WAIVER

1. 6994 SCTY SO MSG DO 230215Z DEC 70 IS RETRANSMITTED FOR YOUR

INFO AND ACTION: QUOTE:

P 230215Z

FM 6994SCTYSO

TO PACSCTYRGN/DDR/SP

SECRET COMINT CHANNELS DO

SUBJECT: WATER SOLUBLE PAPER, WAIVER

REF: A. USAFSS MSG 231610Z FEB 70, SAME SUBJECT

B. USAFSS/SP LTR DTD 07 UL 70, WAIVER TO PARA 11-3B,

USAFSSM 205-7.

1. REF A GAVE THIS UNIT WAIVER SO THAT THE NSA TASKING LISTING

AND MISSION PRIORITY LISTING (CHERRY SHEETS) COULD BE CARRIED

ABOARD MISSION ACFT WITHOUT BEING PRINTED ON WATER SOLUBLE

PAPER. WAIVER TO EXPIRE 31 JULY 70. REF B EXTENDED THE

WAIVER UNTIL 31 DEC 70, AND INCLUDED HESTIA PADS.

2. REQUEST CONTINUATION OF WAIVER OR ADVISE IF OTHER ACTION

CONTEMPLATED.

UNQUOTE.

2. RECOMMEND WAIVER BE RENEWED.

200

0008

[REDACTED]

[REDACTED]

ZCZORDA178
RR YMRDGR
DE YWADK 0007 3651430
ZNY MMNSH
R 311425Z
FM USAFSS
TO PACSCT YRGN/SP/DOR/
6994SCT YSC/SP/DO/
ZEN

FILE 820 01 13
-1 JAN 1971

DO/SP

DD 03

SUBJ: WAIVER TO PARA 11-36, USAFSSM 205-7.

1. REFERENCES:

- A. PSR MSG 242315Z DEC 70.
 - B. 6994TH SCTY SQ MSG TO 230215Z DEC 70.
2. SUBJECT WAIVER IS APPROVED FOR CARRYING NSA TASKING LIST, MILLER
HESTIA PADS AND ARDF TECH DATA ABOARD MISSION AIRCRAFT.
3. THIS WAIVER EXPIRES 31 DEC 71 UNLESS SOONER VACATED. FORMAL
LTR FOLLOWS.

100
0607

Cy to DORT
DEAM

sent to Dets

NNNNNNNN A

ZCZCRDA 746
RR YMRD CR
DE YHLAKZ 0030 274200
ZNY MMNSH
R 222040Z
FM PAC SCTYR GN
TO 6903SCTYS Q/DO MX
6918SCTYS Q/DO X
6921SCT YGP/DO MX A
6922SCT YGP/DO MX H
6924SCTYS Q/DO MX
6927SCT YGP/DO E -4
6986SCT YGP/DO MX
6987SCT YGP/DO MX
6988SCTYS Q/DO
6990SCTYS Q/DO
DET 1 6990SCTYS Q/DO
DET 3 6994SCTYS Q/DO
INF 0 6994SCTYS Q/DO
YADHRC/CL-1 6988SCTYS Q/DO
CL-2 6988SCTYS Q/DO
ZEM

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SUBJ: A/G/A COMMUNICATIONS STUDY GROUP

1. HIGH LEVEL EMPHASIS HAS BEEN PLACED ON THE EFFECTIVENESS OF THE REGION'S A/G/A COMMUNICATION SYSTEMS. WITH THE PRIMARY EMPHASIS ON THE UURC-53. WE THEREFORE, FORMED A PSR A/G/A COMMUNICATION

STUDY GROUP, CONSISTING OF REPRESENTATIVES FROM DO (DOA/DON/DOE/T DOR); DC (COOC ANDL @) LOS/LOM). REPRESENTATIVES FROM PACOM AREA ARE ALSO INVITED TO ATTEND EACH OF THE MONTHLY MEETINGS.

2. PURPOSE OF THE GROUP IS TO STUDY ALL ASPECTS OF THE REGION'S TOTAL A/G/A COMMUNICATION SYSTEMS. ISOLATE POTENTIAL PROBLEM AREAS AND RECOMMEND CORRECTIVE ACTION, ASSIGN SPECIFIC RESPONSIBILITIES AND ENSURE THAT FOLLOW-UP ACTION IS TAKEN.

3. DURING PAST MEETINGS WE UTILIZED TRIP REPORTS IN AN EFFORT TO DETERMINE PROBLEM AREAS ENCOUNTERED BY INDIVIDUAL UNITS. HOWEVER, WE ARE NOW GOING TO REQUEST THAT EACH UNIT ESTABLISH A SIMILAR A/G/A STUDY GROUP TO THIS HQS FOR INCLUSION AND DISCUSSION AT MEETINGS. AS A RESULT AN PSR WILL KNOW EXACTLY WHAT PROBLEMS EXIST AT EACH UNIT, WHAT ACTIONS HAVE BEEN TAKEN AT THE LOCAL LEVEL AND WILL BE IN A POSITION TO DETERMINE ACTIONS REQUIRED AT REGION LEVEL TO AID OF REVOLVING THE PROBLEMS. PSR WILL HOLD THEIR MEETINGS ON APPROXIMATELY THE 15TH OF EACH MONTH, UNTIL A/G/A COMM EFFECTIVENESS REACHES ACCEPTABLE LEVELS. APPRECIATE RECEIVING UR INPUT PRIOR TO PSR MEETINGS TO ASSURE MAXIMUM ATTENTION IS FOCUSED ON ALL PROBLEMS. UNDERSTAND THAT THE 987SG HAS FORMED SUCH A STUDY GROUP AND HAS REALIZED FAVORABLE RESULTS AS REFLECTED IN THE UNITS OVERALL URC-53 SYSTEMS RELIABILITY.

4. SUGGEST 6988SS AND 6990SS CONSOLIDATE RESPECTIVE UNIT AIRBORNE PROBLEMS FOR INCLUSION IN THEIR GROUP MINUTES.

444

0030



JOINT MESSAGE

RF

TYPE MSG	BOOK	MULTI	SINGLE
		XXX	

PRECEDENCE	ROUTINE
ACTION	ROUTINE
INFO	ROUTINE

DTC 13/1110Z SEP 70

FROM: 6994 SCTY SQ

TO: PACSCTYRON/DONKA

INFO: NET 1, 6994 SCTY SQ/DO

NET 2, 6994 SCTY SQ/DO

NET 3, 6994 SCTY SQ/DO

SPECIAL INSTRUCTIONS

SUBJECT: A/G/A COMMUNICATIONS STUDY GROUP (U)

REF A: PSR DONKA 222040Z AUG 70

REF B: PSR DONKA 272001Z AUG 70

REF C: [REDACTED] 147-1467-70 14710-464 07/0145Z AUG 70

REF D: NET 3, 6994SS DO 090941Z AUG 70

1. A STUDY OF THE LAST SIX MONTHS FIGURES ON COMBAT CROSS/COMB- ANDO FORGE OPERATIONS IN SEA REVEALS THE EXTENT OF THE A/G/A KY-8 CIPHER COMMS PROBLEM. AVERAGE FIXES PER TASKING CYCLE (7 DAYS), 1329. AVERAGE PASS RATE - 86.5 PERCENT. AMONG THE REASONS FOR FIXES NOT PASSED WERE: KY-8 FAILURE, 34.4 PERCENT; NO CONTACT WITH DSU, 36.1 PERCENT; THE REMAINING 29.5 PERCENT NOT PASSED DUE TO EXCESSIVE STATIC, TARGET NOT CONFIRMED AS HOSTILE, FM TRANSCRIBER

DATE	TIME
13	1800H
MONTH	YEAR
SEP	1970
PAGE NO.	NO. OF PAGES
01	

D R A F T E R	TYPED NAME AND TITLE	PHONE
	ALFRED M. ROBBINS, SMSGT, USAF MCOIC, DORM	4641

SIGNATURE
<i>Jack Barnes</i>
TYPED (OF ORIGINAL) NAME AND TITLE
JACK BARNES, LTCOL, USAF OPERATIONS OFFICER

REGARDING INSTRUCTIONS

ABBREVIATED
and/or CONT

CLASSIFICATION

PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE
ACTION ROUTINE	JACK BARNES, LTCOL, USAF	ALFRED M. ROBBINS SMSGT	4661
INFO ROUTINE	OPERATIONS OFFICER	NGOIC, ROOM	

FAILURE, FIX NOT PLOTTED UNTIL AFTER LANDING, ETC. 7

2. AS A RESULT OF THIS STUDY AND INPUTS FROM ALL DETACHMENTS, IT HAS BEEN DETERMINED THE FOLLOWING A/G/A VOICE CIPHER COMM PROBLEMS HAVE CONTRIBUTED TO THE HIGH PERCENTAGE OF FIXES/NOT PASSED.

- A. KY-8 MALFUNCTIONS PREVENTING CIPHER COMMS WITH DSU.
- B. LACK OF AN ALTERNATE FREQUENCY SOLELY FOR PLAIN MODE USE TO PASS HESTIA PAD ENCRYPTED FIXES AND TO RECEIVE G/A TIP-OFFS FROM DSU.
- C. LACK OF A BACK-UP KY-8 IN ACFT.
- D. LACK OF A MEANS FOR ENCRYPTION OF LOW-LEVEL (L/L) EXPLOITABLE MESSAGES.
- E. INSUFFICIENT FM FREQUENCIES ALLOCATED FOR ARDF USE.
- F. LACK OF UHF KY-8 CAPABILITY BY DSU'S IN CAMBODIA AND SVN.
- G. REFUSAL OF CERTAIN DSU TO ACCEPT FIXES NOT IN THE DSU AREA OF RESPONSIBILITY.
- H. FAILURE DSU TO MONITOR OR RESPOND TO PLAIN MODE CALLS BY ARDF ACFT.
- I. REQUIREMENT FOR CERTAIN A/G/A COMMS NOT ACTUALLY NEEDED TO SATISFY CURRENT OPERATIONAL REQUIREMENTS.
- J. INADEQUATE DSU COVERAGE IN CERTAIN AREAS.
- K. INTERFERENCE CAUSED BY PRESENT LOCATION OF THE FM 622A TRANS-CEIVER ANTENNA. 1

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	
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REGRADE INSTRUCTIONS				

ABBREVIATED JOINT MESSAGE FORM
and/or CONTINUATION SHEET

PRECEDENCE	RELEASED BY	DRAFTED BY	
ACTION ROUTINE	JACK BARNES, LTCOL, USAF	ARFRED M. ROBBINS, SMSGT	4641
INFO ROUTINE	OPERATIONS OFFICER	NEOIC, DODM	

3. ACTIONS TAKEN BY THIS UNIT REGARDING THESE PROBLEMS AND SUGGESTED PROPOSED SOLUTIONS ARE AS FOLLOWS:

A. KY-8 MALFUNCTIONS: WE HAVE AGAIN BROUGHT THE HIGH RATE OF KY-8 FAILURES TO THE ATTENTION OF THE 460THW AND HAVE REQUESTED IMPROVED MAINTENANCE ON THIS EQUIPMENT. AN ENGINEERING STUDY OF THE KY-8 AND ITS PRESENT LOCATION IN THE ACFT TO DETERMINE THE ADEQUACY OF ITS COOLING COULD POSSIBLY REVEAL ADDITIONAL DATA ON REASONS FOR FREQUENT MALFUNCTION. WE WILL REQUEST SUCH A STUDY BE CONDUCTED BY 460THW.

B. LACK OF ALTERNATE FREQUENCY FOR PLAIN MODE: THE AVAILABILITY OF A SEPARATE PLAIN MODE FREQUENCY COULD REDUCE THE LACK OF CONTACT WITH DSU. ACFT USING CIPHER MODE BLOCK OTHER ACFT ATTEMPTING TO PASS TFC IN PLAIN MODE WHEN BOTH MODES ARE USED ON SAME FREQUENCY. THE ADDITIONAL TIME REQUIRED TO PASS TFC IN PLAIN MODE FURTHER AIDS TO FREQUENCY SATURATION. COORDINATION WILL BE CONDUCTED WITH 509TH REG IN AN EFFORT TO SECURE ADDITIONAL, SEPARATE FREQUENCIES.

C. LACK OF BACK-UP KY-8 IN ACFT: DURING 1969 THE SECOND KY-8 WAS REMOVED FROM ALL ANDF ACFT. REINSTALLATION OF THIS EQUIPMENT WOULD SIGNIFICANTLY INCREASE PASS RATE. WIRING AND EQUIPMENT RACKS FOR THE SECOND KY-8 STILL EXIST IN OUR ACFT. BACK-UP KY-8 AT EACH DSU WOULD ALSO BE DESIRABLE AS OUTAGES AT THESE UNITS ALSO CONTRIBUTE TO LACK OF CONTACT. REQUEST YOUR HQ INVESTIGATE POSSIBILITY

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	INITIALS
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REGRADE INSTRUCTIONS				

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and/or CO [REDACTED]		[REDACTED]	
PRECEDENCE	RELEASED BY	ENCRYPTED BY	PHONE
ROUTINE	JACK BARNES, LTCOL, USAF	ALFRED M. ROBBINS, SMSGT,	4641
ROUTINE	OPERATIONS OFFICER	MOJIC, DOMM	

OF OBTAINING BACKUP KY-65.

D. LACK OF MEANS TO ENCRYPT LOW-LEVEL MESSAGES: THE HESTIA PAD CANNOT BE USED FOR ENCRYPTION/PASSING OF L/L MESSAGES, IN THE PLAIN MODE. WHEN KY-6 FAILS, THESE MESSAGES CANNOT BE PASSED A/G.

E. INSUFFICIENT FM A/G/A FREQUENCIES: ADDITIONAL FM FREQUENCIES ALLOCATED FOR USE IN CIPHER MODE WOULD REDUCE THE TIME REQUIRED TO PASS FIXES/MESSAGES. WHENEVER ONE ACFT IS PASSING TFC IN CIPHER AND ANOTHER ACFT KEYS HIS FM TRANSCIVER IN CIPHER, THE KY-6 GOES OUT OF SYNCH REQUIRING REPEATED TRANSMISSIONS AND HEADBACKS. SEVERAL DSU SHARE THE SAME FREQUENCIES AT PRESENT. (REF PARA THREE BRAVO THIS MESSAGE).

F. LACK OF UHF KY-6 CAPABILITY BY DSU'S: A BACK-UP SYSTEM WOULD PROVIDE AN ALTERNATE MEANS OF CONTACTING THE DSU IN EITHER PLAIN OR CIPHER MODES. ALL ARDF ACFT HAVE UHF/KY-6 CAPABILITY BUT DSU'S IN VIETNAM/CAMBODIA DO NOT. NET 3 CURRENTLY USES UHF/NET 3 A/G/A M DOMM BUT THEIR GROUND STATIONS DO NOT POSSESS FM/KY6 CAPABILITY.

G. REFUSAL OF CERTAIN DSU TO ACCEPT FIXES NOT IN THEIR AREA OF RESPONSIBILITY. THIS PROBLEM HAS RECENTLY BEEN BROUGHT TO THE ATTENTION OF THE 509TH REG FOR THEIR RESOLUTION.

H. FAILURE OF DSU TO MONITOR FOR OR RESPOND TO PLAIN MODE CALLS BY ARDF ACFT. WE HAVE RECENTLY RECOMMENDED TO THE 509TH REG THAT ALL DSU MONITOR IN PLAIN MODE AT 25 AND 55 MINUTES AFTER EACH HOUR FOR

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ROUTINE	JACK BARNES, LTCOL, USAF	ALFRED M. BOBBINS, SMSGT	4641
ROUTINE	OPERATIONS OFFICER	NOCHE, BOB	

LIMITED TO THOSE PERIODS WHEN MINIMUM INTERFERENCE WITH MISSION ACTIVITIES WILL RESULT. HOWEVER THIS CAUSES BACKLOGS OF TRAFFIC/MESSAGES NOT PASSED DURING AN ACTIVE MISSION. OPERATORS ARE FACED WITH THE DILEMMA OF DECIDING WHETHER TO PASS TPC ON HAND OR FIX ASSIGNED TARGETS THAT ARE ACTIVE BUT NOT YET FIXED.

THE STUDY AND RESOLUTION OF THESE A/G/A PROBLEMS BY SUBJECT GROUP WILL GREATLY IMPROVE ANDF OPERATIONS. WE WILL CONTINUE TO WORK WITH ALL AGENCIES CONCERNED IN AN EFFORT TO IMPROVE OUR PASS RATE. OUR ASSESSMENT IS THAT WHILE A MEASURE OF IMPROVEMENT CAN BE MADE, IT IS PROBABLE THAT THE OBJECTIVE OF 100 PERCENT PASS RATE IS UNREALISTIC, PARTICULARLY IN THE AREA OF VOICE EXPLOITABLES.

CONTROL NO	TOP/FOO	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
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				REGRADING INSTRUCTIONS	

JOINT MESSAGEFORM

SECURITY CLASS



TYPE MSG

BOOK MULTI SINGLE
XXX

PRECEDENCE

ROUTINE

DTG

27/0844Z

OCT 70

FROM: 6994 SGTI SQ

TO: USM-704

INFO: PACSTIRCH/DCR

SPECIAL INSTRUCTIONS

BJ: UNF-2 Capability (U)

THE ARDP UNIT AT TAN SON HUU (USA-561) HAS RECENTLY ESTABLISHED CAPABILITY TO COMBAT ITS AIRCRAFT G/A. WE WILL BE USING THE F-2 TRANSMITTER IN THE SECURE MODE FOR ALL TRANSMISSIONS. WE ARE PLANNING TO USE THE SYSTEM FOR THE FOLLOWING PURPOSES ONLY:

GROUND CHECK WITH THE RI-8 SYSTEM TO INSURE ITS OPERATIVE.

PASS A/G FILES AND EXPLOITABLE MSGS ONLY WHEN A DSU CANNOT BE CONTACTED.

ATTEMPT IDENTIFICATIONS ONLY WHEN THE DSU CANNOT BE CONTACTED.

OUR EQUIPMENT HAS BEEN TESTED AND PRESENTLY HAS A RANGE OF 120 MILES. THE QUESTION ARISES AS HOW TO PASS THE FILES AND EXPLOITABLE

MSG. WE NOW REPORT THIS DATA IN AIR AND SEATS HOWEVER THIS OCCURS WITHIN THREE HRS AFTER ACFT RECOVERY. THERE ARE NO ESTAB PROCEDURES

FOR MORE TIMELY TRANSMISSION OF INDIVIDUAL FILES AND MSGS RECEIVED

DATE	27	TIME	
MONTH	OCT	YEAR	70
PAGE NO.	1	NO. OF PAGES	1

TYPED NAME AND TITLE

Capt Miller/eds

PHONE

4642

RELEASER

SIGNATURE

TYPED (or stamped) NAME AND TITLE
EDWARD J. MILLER, Captain, USAF
OIC Mission Management

SECURITY CLASS



ABBREVIATED JOINT MESSAGEFORM

S [REDACTED] ON

CONTROL NO. [REDACTED]
 DRAFTER'S ROUTINE
 TO [REDACTED]

Capt Miller

DRAFTED BY
 Capt Miller

PHONE
 2641

FOR TO ACFT RECOVERY. WHAT ARE YOUR RECOMMENDATIONS? AGAIN, ASSURED THAT THE ONLY TIME OUR ACFT WILL PASS THIS DATA TO OUR GROUND STATION IS WHEN CONTACT WITH A DCU HAS BEEN ATTEMPTED WITH NEGATIVE RESULTS.

CONTROL NO.	TOP/TOD	PAGE NO. 2	NO. OF PAGES 2	MESSAGE IDENTIFICATION	INITIALS <i>CM</i>
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DOR*

102

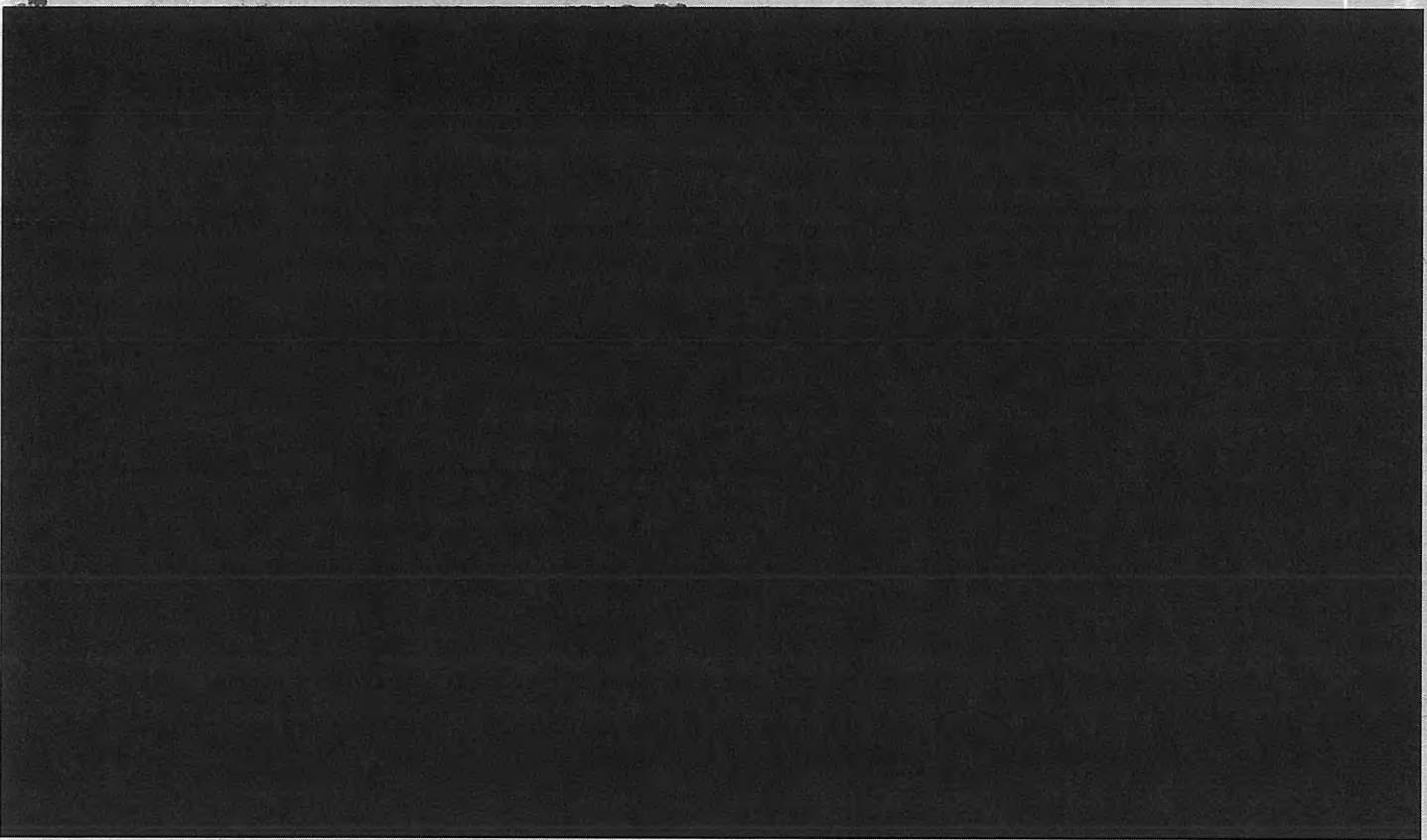
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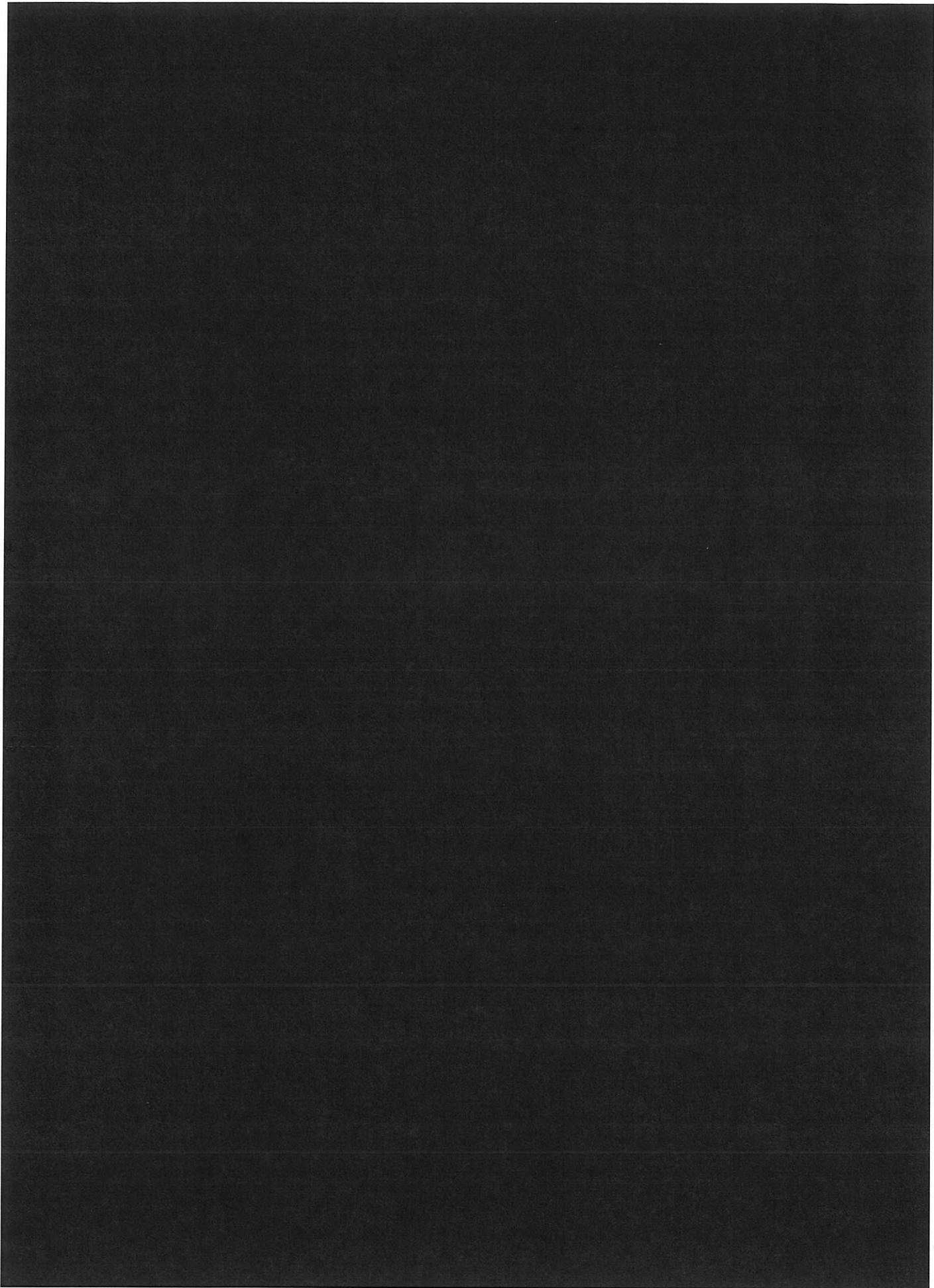
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DE YHLAKZ 0036 3170245
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SECRET

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DE YHLAKZ 0038 5582239
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P 242100Z
FM PACSCTYRGN

[REDACTED]

6994 SCRY SQ/DO
DET 3 6994 SCTY SQN/DO
DET 4 PSR/CC
USAFSS/DOR
NSAPAC
ZEM

[REDACTED]

REF YOUR 240936Z DEC 70 (NOTAL NSAPAC).

1. DUE TO NECESSITY FOR UTMOST SECURITY WITH REGARD TO ARDF MISSION OF EC-47 AIRCRAFT, DO NOT CONCUR WITH CLEAR VOICE COMMUNICATIONS TESTING UNLESS EQUIPMENT INSTALLATION/MAINTENANCE DIFFICULTIES ARISE WHICH MAKE CLEAR MODE TESTING ABSOLUTELY NECESSARY TO BRING EQUIPMENT TO OPERATIONAL STATUS. REQUEST INITIAL COMM TESTING BE CONDUCTED IN CIPHER MODE ONLY.
2. FOR [REDACTED]: AS DISCUSSED DURING 1 DEC MEETING AT UDORN, WE PLANNED TO USE FORMER USM-7 FREQUENCY AND CALLSIGN ALLOCATION FOR [REDACTED] GROUND STATION. PLEASE ADVISE ALCON OF STATUS YOUR ACTIONS TO OBTAIN MAC THAI APPROVAL THIS ARRANGEMENT AND ALSO STATUS YOUR EFFORTS TO OBTAIN PERMANENT CALLSIGN FOR [REDACTED]
3. FOR 6994SS: CONCUR WITH PROPOSED 31 DEC TEST WITH DET 2 IF ABOVE QUESTIONS ARE CLARIFIED. REQUEST YOU DEVELOP SPECIFIC PROCEDURES FOR COMM TESTING. TRAFFIC FORMAT AND TIMES OF CONTACT. PLEASE ADVISE ALCON ASAP.

240
0058

THIS IS A TRUE CERTIFIED COPY.

Jack Barnes
JACK BARNES, Lt Col, USAF
Operations Officer

[REDACTED]

46

JOINT MESSAGEFORM

RESERVED FOR COMMUNICATION CENTER

SECURITY CLASSIFICATION



MULTI SINGLE

TYPE MSG

X

PRECEDENCE

ACTION PRIORITY

INFO

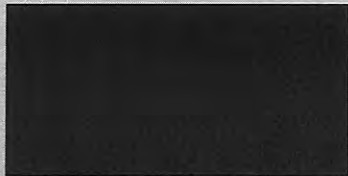
DTG

26/0831Z DEC 70

FROM: 6994 SOTY SQ THE HTW

TO: DET 2, 6994 SOTY SQ/DO

INFO:



BRAPAC

DET 3, 6994 SOTY SQ/DO

DET 4, PACSUTIRGH/CC

PACSUTIRGH/DCR

USAFHQ/DCR

SPECIAL INSTRUCTIONS

SUBJ: PAKSE KY-8 COMMUNICATIONS TEST

REFS: A. PACSUTIRGH DCR 242100Z DEC 70 (TOTAL DET 2)

B. [REDACTED] 240936Z DEC 70. (TOTAL DET 2)

1. REF ALPHA AUTHORIZES TEST OF PAKSE KY-8 COMMUNICATIONS FACILITY, AS REQUESTED IN REF BRAVO, DURING DET TWO 910 BRAVO MEN ON 31 DEC. MEN HAS SEND ITOT OF 0400Z. TEST IS CONTINGENT ON CLARIFICATION OF PAKSE FREQUENCY AND CALLSIGN USAGE POSED IN PARA 2, REF ALPHA.

2. ASSUMING [REDACTED] RESOLUTION OF FREQ AND C/S USAGE, YOU

DATE 26	TIME 1430
MONTH DEC	YEAR 70
PAGE NO. 1	NO. OF PAGES 2

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4891

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TYPED (or stamped) NAME AND TITLE

GARY D FLECHER, Captain, USAF
Asst Operations Officer

SECURITY CLASSIFICATION

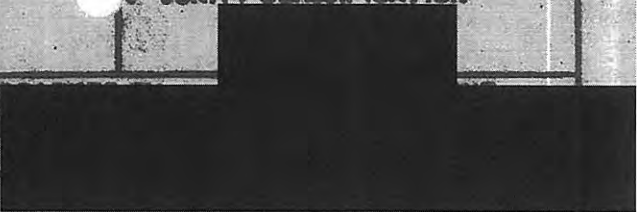


REGRAIDING INSTRUCTIONS

ABBREVIATED JOINT MESSAGEFORM
and/or CONTINUATION SHEET

SECURITY CLASSIFICATION

PRECEDENCE	RELEASED BY
ACTION PRIORITY	Capt Balcher
INFO	



SHOULD PLAN TO CONDUCT TEST AS REQUESTED. RECOMMEND SKEW OF 15 AND 45 MINUTES PAST THE HOUR FOR MINIMUM OF TEN MINUTE EACH FOR DURATION OF TIME IN AREA. MAINTAIN COMPLETE LOG OF ATTEMPTS INCLUDING TIMES OF CALLUPS, APPROX LOCATION, DEGREE OF SUCCESS AND ANY PERTINENT REMARKS OR SUGGESTIONS. REPORT RESULTS OF TEST TO ADDRESSEES OF THIS MSG UPON MSG RECOVERY.

1. PER PARA ONE, REF ALPHA, DO NOT ATTEMPT CLEAR VOICE COMMS WITHOUT APPROVAL OF HIGHER EMS.
2. DIRECT LIAISON ^{ZED} WITH [REDACTED] TO COORDINATE PROCEDURES, FRGS, CALLSIGNS, OR OTHER MATTERS PERTINENT TO TEST.
3. FOR DET 3. REQUEST YOU MONITOR TEST PROCEDURES CLOSELY TO FACILITATE YOUR ENTRY INTO PROGRAM.
4. FOR [REDACTED] REQUEST DET TWO BE INCLUDED IN ALL CORRESPONDENCE THIS SUBJ.
5. FOR DET 2. MSGS BEING SENT TO YOU BY SEPARATE MSG.

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[REDACTED]				INSTRUCTIONS	

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011855Z JUL 70

2 JUL 70 2:26 Z

DM

6994
Planning / Logistics

~~SECRET~~

1 JULY

1855

ROUTINE

* [REDACTED] *

PT 00223
RTTSZYUW RUNTEJAD290 1822000-SSSS--RUSQNA.
ZNY SSSSS
R 011855Z JUL 70
FM USAFSS
TO RUHHABA/CINCPACAF/DML
INFO RUEFHQA/CSAF/AFNIYSB/AFSMEME
RUEADWS/CH USAFSS/FT GEORGE G MEADE MD
RUSQNA/7AF/DML/TAN SON NHUT AFLD RVN
RUVARIA/AFLC/MCNA-1/MCMX
RUVRIA/WRAMA/WRNT/WRNC/ROBINS AFB GA
RUHHWA/PACSCYRGN/LO:DO/WHEELER AFB HAWAII
RUSQNA/6994SCTYSQ/CDR/TAN SON NHUT AFLD RVN
BT

SUBJ: VIETNAMIZATION OF COMBAT CROSS [REDACTED], CINCPACAF (DML) FOR COLONEL T. E. BROUGHTON. REFERENCES:
A. JCSM 202-70.
B. USAF MATERIEL GUIDANCE FOR VNAF LOG SYSTEM, MAY 70.
1. THIS COMMAND HAS QUERIED CSAF FOR ANY INFORMATION OR DIRECTION THAT HAS BEEN DISSEMINATED CONCERNING THE VIETNAMIZATION OF THE COMBAT CROSS AIRCRAFT. IN REPLY

PAGE 2 RUNTEJAD290 [REDACTED]
WE WERE ADVISED TO CONTACT YOUR HEADQUARTERS. ASSUME YOU HAVE RESPONSIBILITY TO DEVELOP IMPLEMENTATION PLAN FOR TURNOVER OF EC-475.
2. USAFSS IS THE SOLE OPERATOR AND POSSESSES THE ONLY ON-SITE LOGISTICS SUPPORT CAPABILITY FOR COMBAT CROSS USAFSS MISSION EQUIPMENT. ALSO INCLUDED IS AFLC (MCMX) FOR BIG SAFARI SUPPORT AND WRAMA (WRNC/WRNT) FOR ARDF SUPPORT. TO DATE:

OUR PLANNING EFFORTS FOR TRAINING AND TRANSFER OF SUPPORT RESPONSIBILITY HAVE BEEN SEVERELY HAMPERED DUE TO A LACK OF INFORMATION. WE ARE DEVELOPING A DRAFT PLAN BASED ON BEST INFO HERE.
A. THERE HAVE BEEN LIMITED INSTRUCTIONS OR GUIDELINES CONCERNING TRAINING OF VNAF TECHNICIANS. VNAF OPERATORS HAVE BEEN ADDRESSED. NEEDED INFO IS:
(1) WILL WE HAVE TO TRAIN MAINTENANCE VNAF TECHNICIANS HOW MANY
(2) WHAT IS THEIR TECHNICAL/CAPABILITY/PROFICIENCY HOW PROFICIENT IN ENGLISH
(3) IF TRAINING IS REQUIRED, IT MUST BE FORMAL CLASSROOM AND OUT. WE ASSUME THE TRAINING LOCATION WILL HAVE

PAGE 3 RUNTEJAD290 [REDACTED]
TO BE TAN SON NHUT.
B. UNTIL VNAF MAINTENANCE TECHNICIANS ARE PROFICIENT, WILL USAFSS BE REQUIRED TO MAINTAIN THE AN/ALR-34 SYSTEMS, G EQUIPMENT AND KY-8 EQUIPMENT, OR WILL CONTRACTOR TECHNICIANS

* [REDACTED] *

ROUTINE

* [REDACTED] *

PT 00223

BE PROVIDED UNDER THE MILITARY ASSISTANCE PROGRAM
C. LOGISTICS SUPPORT IS ANTOEHRER AREA OF CONVER. SOME
OF THE EQUIPMENT INSTALLED IS NOT FEDERAL STOCK NUMBERED
AND IS SUPPORTED BY THE BIG SAFARI PROGRAM.

(1) WHAT TYPE OF SUPPLY SUPPORT IS ENVISIONED WILL
IT BE USAF OR VNAF OPERATED WHO WILL MAINTAIN THE FX
ACCOUNT

(2) HOW WILL ADDITIONAL SPARES BE PROCURED WHO
WILL PROGRAM FUNDS FOR SPARES

D. AVAILABILITY OF AGE IS ANOTHER CRITICAL ITEM. THE
MAJORITY OF THE AGE IS UNIQUE WITH NO OTHER USAF APPLICATION.
THIS COMMAND HAS STATED THAT ONE SET CAN BE PROVIDED, BUT
NOT UNTIL THE TURNOVER IS COMPLETE AND ONE OF OUR UNITS
IS INACTIVATED WHICH APPEARS TO BE SOMETIME DURING FY 73.

(1) HAVE ANY PLANS BEEN MADE TO PROCURE
ADDITIONAL AGE IF SO, WHEN WILL IT BE AVAILABLE

PAGE 4 RUWTEJA0290 [REDACTED]

(2) REF A CONCEPT OF OPERATIONS INDICATES FOUR
OPERATING LOCATIONS. OUR COMMITMENT FOR AGE WILL SUPPORT
ONE SITE. HOW WILL THE REMAINING SITE, BE SUPPORTED

3. REALIZE THE ABOVE QUESTIONS ARE BOTH GENERAL AND
SPECIFIC, BUT THE VIETNAMIZATION OF THE COMBAT CROSS
WILL HAVE A DECIDED IMPACT ON USAF SUPPORT POSTURE.
ANY COMMENTS OR DOCUMENTATION YOU MAY HAVE CONCERNING
OPERATIONAL AND LOGISTICS CONCEPTS, SUPPORT PROCEDURES AND
POLICIES, AND TARGET DATES FOR VIETNAMIZATION SHOULD BE
PROVIDED TO THIS HEADQUARTERS, LO/XR.

4. WE RECOMMENDED A CONFERENCE BE HELD SOONEST AT
YOUR HEADQUARTERS ON THIS SUBJECT WITH REPRESENTATIVES
FROM CSAF, PACAF, 7AF, 460TRW, TAC, AFLC,
WRAMA, ASD, USAFSS, PAC SCTY RGN, AND THE 6994TH
SCTY SO SO WE CAN DETERMINE RESPONSIBILITIES AND MAKE SOME
FIRM DECISIONS TO SUPPORT THE VIETNAMIZATION PROGRAM.

5. FOR AFLC/WRAMA: SINCE YOU WILL BE PROVIDING
THE LOGISTICS SUPPORT FOR THIS PROGRAM, REQUEST YOUR
THINKING AND ACTION TAKEN TO DATE. WILL YOU BE USING
MAP PROCEDURES WHAT ARE YOUR RECOMMENDATIONS

PAGE 5 RUWTEJA0290 [REDACTED]

6. FOR PAC SCTY RGN: USAFSS/PAC SCTY RGN LOGISTICS
RESPONSIBILITIES SHOULD BE ABLE TO BE DETERMINED FOLLOWING SUGGESTED
MEETING AND RECEIPT OF ABOVE REQUESTED INFO. REQUEST
YOU ESTABLISH CONTACT WITH PACAF PROJECT OFFICER. GP1.

BT
#0290

NNNN#

5 10 5 50 1

ROUTINE

* [REDACTED] *

ROUTINE

*

PT 00333
RTTSZYUW RUMHWHAI764 2240329-SSSS-RUSOSNA
ZNY SSSSS
R 120214Z AUG 79
FM PACSCTYRG WHEELER AFB HAWAII
TO RUSOSNA/69945CTYSG LG TSN AB RVN
INFO RORTEJA/USAFSS XRXG LOXA
BT

120214Z AUG 79
6994
29

SUBJ: COMBAT CROSS VIETNAMIZATION
UNTIL SUCH TIME AS POLICIES AND PROCEDURES ARE
ESTABLISHED BETWEEN VARIOUS USAF/ODD AGENCIES INVOLVED IN
TRANSFER OF EC-47 AIRCRAFT TO VNAF, ALL REQUESTS FOR INFOR-
MATION OR ASSISTANCE CONCERNING LOGISTICS ASPECTS OF COMBAT
CROSS VIETNAMIZATION, SHOULD BE DIRECTED TO THIS HQ/LOG/ODD.

GP-1.
BT
#1764

*in case of
Col. [unclear]*

NNNNZ



ROUTINE

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LH

001 70 1:07

010007Z JUL 70

Planner's copy JUL 70

VNAF VS 0007

ZCZCRDU149

PP WRDQR
DE YHLAKZ 2 1820009
P 010007Z
FM PACSCT YRGN
TO 6994SCT YSQ CC
TEM

SUBJ: VIETNAMIZATION OF ARDF
REF: (A) YOUR CC 301025Z JUN 70
(B) MY DOA 090301Z JUN 70
(C) USAFSS 112035Z JUN 70
(D) MY DOA 152139Z JUN 70
(E) MY DOA 170126Z JUN 70
(F) YOUR 250114Z MAY 70

1. YOUR ARE AN ADDEE ON REFS B THRU E. THESE MSGS ALL PERTAIN TO VIETNAMIZATION OF THE ARDF PROGRAM AND PROVIDE LATEST INFORMATION AVAILABLE. REF C IS USAFSS GUIDANCE AND PARA 2 ACCEPTS THE 6994 PROPOSED SQUADRON AS BEING REALISTIC. REF B AUTHORIZES YOU TO PARTICIPATE IN DISCUSSIONS WITH BOTH 7AF AND NRV AS APPROPRIATE. BASED ON YOUR CC 301025Z (REF A) IT MAY BE THAT SOME OF REF MSGS WERE LOST IN TRANSMISSION WE ARE PREPARING A COURIER PACKAGE OF ABOVE REFS TO BE FORWARDED. WE CONCUR WITH YOUR PROPOSAL TO ASSIST NRV. HOWEVER, A VNAF SQUADRON AS INTEGRATED NVAF/ARVN SQUADRON. BELIEVE WE ARE OPPOSED TO AN ORIGINALLY PROPOSED BY YOU IS BEST STRUCTURE. WOULD APPRECIATE ANY SPECIFIC RATIONALE BEHIND NRV CONCEPT OF AN INTEGRATED VNAF/ARVN SQUADRON.

210

JOINT MESSAGEFORM

RESERVED FOR COMMUNICATION CENTER

FILE: INT 5-58

4 JULY

TYPE MSG

X

PRECEDENCE

ACTION ROUTINE

INFO

DTG

04/0935Z JUL 70

FROM: 6994 SCTY SQ

TO: PACSCTYRGN/DOA

SPECIAL INSTRUCTIONS

Planning
ARVN
VNAF

4 JULY

0935

SUBJ: VIETNAMIZATION OF ARDF

REF A. MY 301025Z JUN 70.

B. YOUR 010007Z JUN 70.

C. MY 250114Z May 70.

APPRECIATE COURIER PACKAGE IN REF B. AM IN RECEIPT OF ALL EXCEPT YOUR 170128Z AND HAVE MAINTAINED LIAISON AND PARTICIPATED IN DISCUSSIONS AS AUTHORIZED. AS RESULT OF DISCUSSIONS THE MANNING STRUCTURE OF THE PROPOSED SQUADRON IS ALMOST IDENTICAL TO THE VNAF SQ COMPILED BY THIS UNIT. IT WAS PRIMARILY BECAUSE OF THE INSISTANCE OF THE CHIEF SSTB THAT INTEGRATED SQUADRON UNDER COMMAND OF THE SSTB WAS SELECTED. HAVE BEEN INFORMED BY NRV [REDACTED] THAT BOTH OPTIONS WERE PRESENTED TO CHIEF SSTB AND HE INSISTED ON THE MIX BECAUSE OF THE FLEXIBILITY HE WOULD HAVE FOR PERSONNEL INPUTS TO THE SYSTEM FROM EXISTING RESOURCES. FURTHER INQUIRY HAS REVEALED THAT ON OR ABOUT 10 MAY 70 RVNAF JGS REQUESTED MACV TO APPROVE THE TRANSFER FROM VNAF [REDACTED] TO ARVN (FOR SUBSEQUENT ASSIGNMENT TO SSTB) APPROXIMATELY 320 PERSONNEL SPACES TO BE OCCUPIED BY BACK-END OPERATORS. MACV REQUESTED

DATE	TIME
04	0930
MONTH	YEAR
JUL	70
PAGE NO.	NO. OF PAGES
1	3

D R A F T E R	TYPED NAME AND TITLE	PHONE	SIGNATURE
	LT COL BARNES	4437	
	SECURITY CLASSIFICATION		TYPED (or stamped) NAME AND TITLE
			JACK BARNES, Lt Col., USAF Commander

DD FORM 173 NOV 63

REPLACES EDITION OF 1 MAY 58 WHICH MAY BE USED.

ST 400 1969-387-901

ABBREVIATION

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PRECEDENCE

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PHONE

ACTION ROUTINE

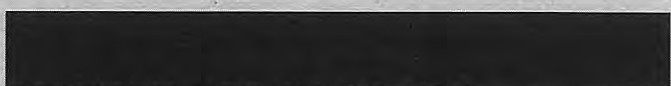
INFO

LT COL BARNES

LT COL BARNES

4437

COORDINATION BY INTERESTED AGENCIES ON HIS PROPOSED RESPONSE TO JGS WHICH STATED IN PART QUOTE: MACV POSES NO OBJECTION TO TRANSFERRING OPERATORS OF THE BACK-END EQUIPMENT INSTALLED IN THE EC-47 AIRCRAFT TO THE ██████████ J7/JGS. UNQUOTE. ON 20 MAY 70 THE FOLLOWING OFFICES COORDINATED ON A PAPER FROM AFGP TO MACV DISAGREEING WITH THE INTEGRATED CONCEPT AND THE NUMBER OF PERSONNEL INVOLVED: AFGP, 7AF DO, DOE, DIF, DPL, DI, AND CS. 6994 SS HAD PARTICIPATED IN CONVERSATIONS BUT WAS NOT ASKED TO COORDINATE ON THE PAPER. ON 21 MAY 70 THE COMMANDER 7AF CALLED A MEETING OF ALL THOSE WHO DISAGREED WITH MACV PROPOSED REPLY. 6994 SS WAS NOT INVITED. AT THE CLOSE OF THE MEETING THE VAST MAJORITY OF THOSE IN ATTENDANCE AGREED TO THE MACV PROPOSED REPLY AND COORDINATED ON A REVISED PAPER STATING CONCURRENCE WITH MACV REPLY BUT RECOMMENDED CHANGING THE NUMBER OF PERSONNEL SPACES INVOLVED FROM 320 to 137. AGAIN, 6994 SS WAS NOT ASKED TO OFFICIALLY COORDINATE. 6994 SS SUBSEQUENTLY DEVELOPED THE VNAF SQUADRON STRUCTURE (REF C) AND HAVE ASSISTED NRV ██████████ IN DEVELOPING THE SQUADRON AS REQUESTED. ■ DEVELOPMENT CONTINUES TO FOLLOW THE STRUCTURE OUTLINED IN REF C AS PERTAINS TO NUMBER AND AFSC OF PERSONNEL. FURTHER, THE SUBJECT OF VNAF VS INTEGRATED SQUADRON HAS BEEN THOROUGHLY DISCUSSED BY MACV, NRV ██████████, CAS, 509 BRG AND 6994 SS. DURING INITIAL DISCUSSIONS IT WAS GENERALLY AGREED THAT THE VNAF STRUCTURE WAS THE MOST PRACTICAL.



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REGRADE INSTRUCTIONS				SEC	

ABBREVIATED MESSAGEFORM
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PRECEDENCE	RELEASED BY	DRAFTED BY	PHONE
ACTION ROUTINE	LT COL BARNES	LT COL BARNES	4437
INFO			

AFTER MUCH THOUGHT AND AS RESULT OF THE INSISTENCE OF THE CHIEF SSTB THE MAJORITY OF ALL AGENCIES CONCUR WITH THE INTEGRATED CONCEPT. PRESENT INDICATIONS ARE THAT THE PROPOSED INTEGRATED SQUADRON UNDER COMMAND OF THE SSTB WILL BE PRESENTED TO RVNAF JGS FOR REVIEW. WILL CONTINUE TO WORK FOR VNAF SQUADRON BUT SEE NO WAY TO FORCE ISSUE AT THIS LEVEL.



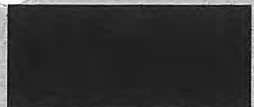
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REGRADE INSTRUCTIONS

3

FILE: INT 5-6 R

DO
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PRIORITY

050315Z NOV 70

699L SCTYSG

USAFSS/CC/XR

PACSCYRGN/CC/LO/DO

VNAF VS ARVN



C/TO:
SSLO

SUBJ: STATUS OF EC-47 TURNOVER PLANNING ACTIONS (U).

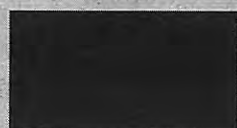
1. REF MY CC 010316Z NOV 70 AND PACSCYRGN DO 030256Z NOV 70. AT THE SUGGESTION OF B/GEN SYKES 7AF DI, WHO COORDINATED ON MY REF CC MSG, I DISCUSSED THE MATTER OF REOPENING THE ISSUE OF THE SPLIT ARVN/VNAF SQUADRON STRUCTURE WITH B/GEN YOUNG, THE AFGP CHIEF, AND RAN INTO A STONE WALL. GEN YOUNG STATED THAT HE WOULD NOT SUPPORT CHANGING THE PRESENT SPLIT CONCEPT AT THIS LATE DATE, AND IN FACT WOULD NOT AGREE TO CHANGING THE MISSION MAINTENANCE FUNCTION TO A VNAF RESPONSIBILITY (t)

GEN YOUNG'S VIEWS ON THIS WERE SO STRONG THAT I WAS UNABLE TO PROCEED VERY FAR WITH MY ARGUMENTS OR GET HIM TO READ THE TALKING PAPER OR MY REFERENCED MSG. HE STATED THAT 7AF HAD ALREADY ESTABLISHED A POSITION ON THIS SEVERAL MONTHS AGO WHEN GEN BROWN DECIDED (IN THE FACE OF STAFF OPPOSITION I UNDERSTAND) TO GO ALONG WITH THE SPLIT CONCEPT USING THE RATIONALE THAT THE

5	0930
NOV	1970
1	4

3623

LtCol Inge/lss/CC



LEON S. INGE, Lt Colonel, USAF
Commander





[REDACTED]

VIETNAMESE WANT IT THAT WAY AND THE U.S. SHOULD NOT TRY TO SUPER-
IMPOSE ITS ORGANIZATIONAL CONCEPTS ON THE VIETNAMESE (THIS SEEMS
IRONIC SINCE THE U.S. ALREADY SUCCESSFULLY PATTERNED THE RVNAF
STRUCTURE LARGELY IN ITS OWN IMAGE). GEN YOUNG BELIEVES THE OPER-
ATION CAN BE MADE TO WORK IN SPLIT PASHION, FEELS THAT 7AF MUST
BE CONSISTENT WITH ITS PAST POSITION, AND STATED THAT SINCE THE
VNAF AND ARVN FORCE STRUCTURES WERE ALREADY FIRMLY PROGRAMMED,
THAT CHANGING OF RELATIVE MEMBERS (I.E. TRANSFERRING ARVN SPACES
TO VNAF) WOULD THROW TIGHT TRAINING SCHEDULES AND UNIT ACTIVATION
OBJECTIVES OUT OF KILTER. I'M UNABLE TO FOLLOW THIS LINE OF
REASONING, ESPECIALLY SINCE THE PROPOSED SQUADRON STRUCTURE HAS
YET TO BE PRESENTED TO THE SSTS AND THE JCS WHERE IT WILL ALMOST
CERTAINLY UNDERGO SOME MODIFICATIONS. I COMMENTED TO GEN YOUNG
THAT THE ESTABLISHED 7AF POSITION MAY HAVE BEEN INCORRECT SINCE IT
APPARENTLY WAS ARRIVED AT WITHOUT DUE CONSIDERATION OF THE
PECULIARITIES OF EC-47 ANDF OPERATIONS WHICH CERTAINLY ARE NOT
FULLY UNDERSTOOD BY THE VIETNAMESE EVEN TODAY. GEN YOUNG APPEARED
ADAMANT AND THE DISCUSSION ENDED. I WAS QUITE SURPRISED AT THIS
VIEWPOINT SINCE IN PREVIOUS DISCUSSIONS WITH THE AFOP PLANS AND
PROGRAMS STAFF, THEY EXPRESSED SUPPORT FOR AN ALL VNAF SQUADRON.

2. I HAD PREPARED A SHORT FLIP BRIEFING INTENDED FOR GEN CLAY,
OUTLINING BACKGROUND, ISSUE, FACTORS PRO AND CON, RECOMMENDED

U.S. (USAF) POSITION, RATIONALE, AND RECOMMENDED ACTION (I.E. RECONSIDER SINGLE/SPLIT ISSUE AND PURSUE WITH MACV AT STAFF LEVEL FIRST AND THEN PERHAPS ON COMMANDER LEVEL). WITHOUT AFGP SUPPORT OR AT LEAST NEUTRALITY, AM IN UNTENABLE POSITION IN ATTEMPT TO REACH GEN CLAY. IN VARIOUS RECENT CONTACTS WITH 460THW COMMANDER, AIR FORCE ELEMENTS AT MACMA, AND MACV J-2114, I HAVE EXPLAINED ENTIRE ARGUMENT AND RECEIVED VERBAL SUPPORT AT LEAST. AM UNSURE WHO IS WILLING TO FORMALLY NONCONCUR WITH NRV [REDACTED] PROPOSED PACKAGE, ASIDE FROM THIS UNIT. SINCE TIME APPEARS TO BE OF THE ESSENCE, A PERSONAL MESSAGE FROM GEN STAPLETON TO GEN CLAY MAY WELL PROVIDE AN OPPORTUNITY TO SURFACE THE ISSUE FOR FURTHER CONSIDERATION.

3. IN CONVERSATION WITH COL BOOTH, NRV [REDACTED], THIS DATE, I LEARNED THAT AN NSA POSITION PAPER ON THIS ISSUE, AMONG OTHER VIM MATTERS, HAS BEEN PREPARED FOR ADM GAYLER. IN IT, THE USAFSS OBJECTION TO THE SPLIT SQUADRON WAS DULY NOTED, BUT DISREGARDED ON THE BASIS THAT COL [REDACTED] (SSTB) HAS STATED HIS RELUCTANCE TO ALLOW VNAF INTO THE SSTB STRUCTURE, THAT THE U.S. SHOULD ALLOW THE VIETNAMESE TO DO THINGS THEIR WAY, AND THAT COL [REDACTED] MUST HAVE CONSIDERED AND ACCEPTED THE DIFFICULTIES INHERENT IN THIS TYPE OF OPERATION. IN OUR JUDGEMENT, THESE ARGUMENTS ARE SPECIOUS AND IRRELEVANT REGARDING THE OBJECTIVE OF EFFICIENT EMPLOYMENT OF THE EC-47 ARDP SYSTEM.

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4. NRV [REDACTED] HAS DECIDED TO PRESENT THE PROPOSAL PACKAGE TO SSB
VICE JCS. WHEN AND IF I RECEIVE THE OPPORTUNITY TO VISIT COL [REDACTED]
TOGETHER WITH CAS AND NRV [REDACTED], INTEND TO MAKE A LAST AND PERHAPS
QUIXOTIC ATTEMPT TO EXPLAIN THE CASE FOR AN AIL VNAF SQUADRON.
5. WILL ADVISE OF FURTHER DEVELOPMENTS.
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- 4

FILE: INT 5-68

NNNZCZCRDB576
PP YMRDQR
DE YWQADK 0034 3132052
ZNY MMNSH
ZKZK PP RNI DE
P 092045Z ZFF-4
FM USAFSS
TO 6994SCZYSSQ/CG/TSN AB RVN
INFO PACSCTYRGN/
CHIEF USAFSS/FM
ZEM



15
977
423

SUBJ: EC-47 TURNOVER PLANNING ACTIONS.
FOLLOWING MESSAGE TB GEN CLAY ON ABOVE SUBJECT IS PASSED
FOR YOUR INFORMATION: QUOTE: P 091945Z NOV 70
FM USAFSS
TO AFSSO 7AF

FOR GEN CLAY FROM STAPLETON
SUBJ: EC-47 TURNOVER PLANNING ACTIONS.
1. I HAVE BEEN ADVISED THAT THE PLANS FOR TURNOVER OF THE
20 EC-47 AIRCRAFT CALL FOR THE VNAF TO FLY THE AIRCRAFT WITH
THE ARVN TO FURNISH THE CRYPTOLOGIC PERSONNEL FOR THE BACK-
END CREWS. NSA HAS ASSIGNED ME THE RESPONSIBILITY FOR
TRAINING THE BACK-UP CREWS TO INCLUDE MAINTENANCE OF OUR
SPECIALIZED ARDF EQUIPMENT.
2. YOU MAY RECALL OUR DISCUSSIONS IN YOUR OFFICE ABOUT THE
ARDF SPECIAL RESEARCH REPORT WRITTEN BY COLONEL HARDEN AND
MAJOR WRAK. ONE OF THE PRINCIPAL USAF PROBLEMS SURFACED BY
THEIR REPORT WAS THE INHERENT DIFFICULTIES CREATED BY HAVING
ONE ORGANIZATION (460 TRW) RESPONSIBLE FOR FLYING THE AIRCRAFT
WHILE ANOTHER ORGANIZATION (6994 SCTY SQDN) WAS RESPONSIBLE
FOR OPERATING THE MISSION EQUIPMENT. THE USAF ARDF HAS BEEN
SUCCESSFUL ENOUGH TO WIN NSA'S TRAVIS TROPHY FOR THE UNIT
THAT HAS MADE THE MOST OUTSTANDING CONTRIBUTION TO THE
CRYPTOLOGIC BUSINESS DURING THE LAST YEAR BUT THAT RECOGNITION
WAS ACHIEVED IN SPITE OF THE WAY WE ARE ORGANIZED NOT BECAUSE
OF IT. HAVING BEEN DIRECTLY INVOLVED WITH OUR ARDF FUNCTION
SINCE ITS BEGINNING, I AM ACTUALLY AWARE OF OUR ORGANIZATIONAL
DEFICIENCIES AND AM RELUCTANT TO SEE US PASS ON TO THE
VIETNAMESE AND EVEN WORSE ARRANGEMENT THAN WE ARE USING. THE
VIETNAMESE ARRANGEMENT WILL SPLIT THE RESPONSIBILITIES NOT
JUST BETWEEN TWO COMMANDS BUT BETWEEN TWO SERVICES.
3. I AM NOT AT ALL SURE HOW WE ARRIVED AT OUR PRESENT
PREDICAMENT AND I AM IN NO POSITION TO SMOKE OUT THE ANSWERS.
INGE DIRNSA, VADM GAYLER, IS SCHEDULED TO BE IN SAIGON ON
THE 11TH AND 12TH NOV, I HAVE SUGGESTED THAT HE TRY TO GET
CLARIFICATION ON THE ISSUES THAT HAVE CREATED THIS VERY
DIFFICULT ORGANIZATIONAL ARRANGEMENT. IT APPEARS TO ME THAT
TWO BASIC POLICY DECISIONS MAY HAVE BEEN MADE WITHOUT
CONSIDERING THEIR IMPACT ON THE EC-47 TURNOVER. APPARENTLY,
THE FIRST POLICY DECISION WAS THAT THE VNAF WOULD FLY ALL THE
AIRCRAFT FOR VIETNAMESE ARMED FORCES AND YOU WOULD RECOGNIZE
IMMEDIATELY IF THAT IS A FACT. THE SECOND POLICY DECISION
MAY HAVE BEEN THAT THE SSBT WILL BE THE ONLY VIETNAMESE
NATIONAL CRYPTOLOGIC ORGANIZATION AND IT WILL HAVE ONLY
ARVN PERSONNEL ASSIGNED. APPLICATION OF THOSE TWO DECISIONS
GIVES US OUR CURRENT PLAN FOR VNAF TO FLY THE EC-47S AND ARVN
TO PROVIDE THE CRYPTOLOGIC BACK-END CREWS. I CAN FIND NO
EVIDENCE THAT ANYONE HAS EVEN IDENTIFIED THIS PROBLEM TO
THE RESPONSIBLE VIETNAMESE OFFICERS WHO WOULD HAVE THE
AUTHORITY TO TAKE CORRECTIVE ACTION.
4. WE IN USAFSS HAVE CONSISTENTLY ADVOCATED THAT THE EC-47
OPERATION BE ALL VNAF - FRONT-END AND BACK-END. YOU AND
ADM GAYLER TOGETHER MIGHT BE ABLE TO DETERMINE IF THE
VIETNAMESE HAVE, IN FACT, MADE THE FIRM DECISION THAT ONLY
THE ARVN WILL BE PERMITTED IN THE CRYPTOLOGIC ORGANIZATION
AND THAT THEY HAVE CONSCIOUSLY DECIDED TO CREATE AN EC-47
OPERATION THAT IS SPLIT BETWEEN THE VNAF AND THE ARVN.
LT COL INGE, COMMANDER, 6994, HAS FULL DETAILS ON WHAT WE
KNOW ABOUT THE PROBLEM SHOULD YOU NEED MORE INFORMATION.