

TOP SECRET
STAFF SUMMARY SHEET

BYE MAN-132

TO	ACTION	SIGNATURE (SUPPNAME), GRADE AND DATE	TO	ACTION	SIGNATURE (SUPPNAME), GRADE AND DATE
1 ESC/CS	Coord		6		
2 ESC/CV	Coord		7		
3 ESC/CC	Approve		8		
4			9		
5			10		

SURNAME OF ACTION OFFICER AND GRADE	SYMBOL	PHONE	INITIALS	SUSPENSE DATE
1Lt Gravitt	AFENC/EWFE	5-2021	dwg	

SUBJECT Impact of M7300 Cancellation on Electronic Warfare Support

DATE

SUMMARY

1. (TS) [] The Air Force Electronic Warfare Center (AFENC) has been notified that the M7300 Signals Intelligence collection program will be terminated. The data received from the M7300 system directly supports the Selectively Improved Flagging Technique (SIFT), Tab 2, and the Advanced Tactical Flagging System (ATFS), Tab 3, concept and its loss will severely impact the capability to provide technical data for EW reprogramming. A proposed message to express our concern over this program termination is at Tab 1.
2. (TS) [] The AFENC established SIFT using pulse-level data collected from the M7300 collection system. The decision to use the M7300 system was based on its collection methods closely mirroring those used by USAF EW receivers. To date, the AFENC has spent \$600K and dedicated four man-years of effort to developing this capability. An additional \$5.5M and attendant eight man-years of effort have been planned to fully support operational needs of the EW reprogramming community.
3. (TS) [] The ATFS concept was also designed to directly exploit ELINT collected from the M7300 system. The inability of any other national collector to provide usable in-theater pulse data led the AFENC to again choose M7300. Currently, the AFENC has \$2.3M contracting effort to build an antenna receiving system to obtain M7300 pulse-level data to support in-theater reprogramming. The overall cost of the ATFS prototype development is estimated at \$4.67M with \$2.04M already invested.
4. (TS) [] Cancellation of the M7300 program also affects the quality and usefulness of national data to support the reprogramming community.

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5. (TS) [] The intelligence staff of the DoD must be made aware that significant requirements exist for use of the M7300 data. The termination

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the program impacts several on-going efforts and severely cripples capabilities to provide vital in-theater reprogramming support. The consequences of these decisions mean the AFEWC will eventually have to develop new capabilities based on the [REDACTED]

[REDACTED]

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RECOMMENDATION

6. (U) Approve release of message at Tab 1 to HQ USAF/XO, HQ USAF/IN, and SAF/DSPO.



STEVEN S. PEACOCK
Colonel, USAF
AFEWC Commander

3 Tabs

1. Proposed msg on M7300 impact
2. Background paper on BIFT
3. Background paper on ATFS

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FROM: HQ ESC/CC
TO: HQ USAF/XO
HQ USAF/IN
SAF/DSPO

SUBJ: CANCELLATION OF M7300

1. THE LOSS OF M7300 DATA WILL ELIMINATE THE ABILITY OF THE ELECTRONIC SECURITY COMMAND'S AIR FORCE ELECTRONIC WARFARE CENTER (AFWC) TO IDENTIFY WARTIME RESERVE MODES (WARM) FOR AIR FORCE ELECTRONIC WARFARE (EW) SYSTEMS. THESE EW SYSTEMS REPRESENT OVER A \$9.0 BILLION INVESTMENT. SIGNAL-LEVEL ELINT, BECAUSE OF ITS OPELINT NATURE, DOES NOT LEND ITSELF TO WARM DETECTION. USING RAW TECHNICAL INTELLIGENCE IS THE ONLY WAY TO IDENTIFY WARM MODES FOR AIR FORCE EW SYSTEMS.

2. M7300 IS THE ONLY SIGINT SATELLITE SYSTEM CAPABLE OF TRANSMITTING TECHNICAL INTELLIGENCE TO A THEATRE USER. THE AFWC IS DEVELOPING A PROTOTYPE TACTICAL EW SUPPORT SYSTEM CALLED THE ADVANCED TACTICAL FLAGGING SYSTEM (ATFS). THE ATFS WILL SUPPORT IN-THEATRE ELECTRONIC COMBAT DECISION-MAKING BY RECEIVING AND PROCESSING M7300 PULSE DATA. ALL STAFF, SAC, TAC, MAC, AND ESC HAVE VALIDATED THIS PROGRAM AND HAVE ALLOCATED OVER \$5 MILLION IN FY90 TO CONTINUE ITS DEVELOPMENT. THE AIR FORCE HAS INVESTED \$4 MILLION TO DATE. THE ATFS WILL BE A CRITICAL COMPONENT IN MEETING THE AIR FORCES'S REPROGRAMMING REQUIREMENTS IN THE 1990'S.

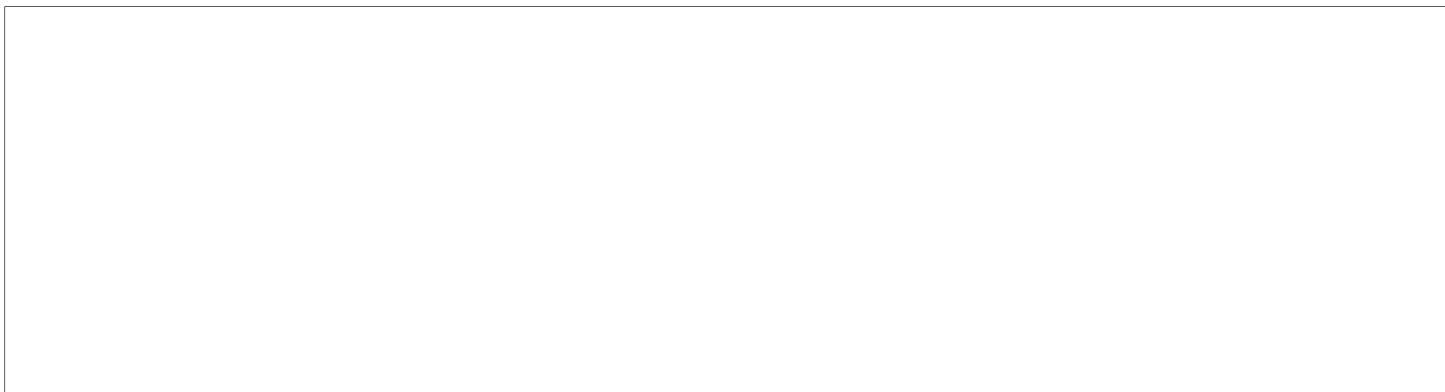
3. CANCELLATION OF THE M7300 PROGRAM WILL IMPACT THE AFWC BY ELIMINATING THE ONLY PULSE-LEVEL DATA SOURCE FOR THE REPROGRAMMING/OPERATIONAL SUPPORT OF THE FOLLOWING AIR FORCE EW SYSTEMS:

RADAR WARNING RECEIVERS (RWR)		JAMMER/ECM SYSTEMS	
ALR-62I	F-111/EF-111	ALQ-99E	EF-111A
ALR-69	F-16/A-10/F-4E	ALQ-131	F-16/A-10/F-111
ALR-46(V)3	F-4E/RF-4C	ALQ-135	F-15
ALQ-46(V)4	B-52	ALQ-161	B-1B
APR-47	F-4G	ALQ-172	B-52H

4. IN ADDITION TO THESE AIR FORCE SYSTEMS, THERE ARE PLANS TO USE M7300 DATA FOR THE NAVY ALR-67 AND THE ARMY APR-39 RWR'S. ALSO, OGDEN LOGISTICS CENTER (AFLC), HILL AFB, PLANS TO USE M7300 TECHNICAL INTELLIGENCE FOR ECCM STUDIES AND ANALYSIS TO SUPPORT THE APG-66 AND APG-68 REPROGRAMMABLE RADARS ON F-16 AIRCRAFT.

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7. THE LOSS OF THE M7300 PROGRAM EQUATES TO A REDUCTION IN THE AFWC'S ABILITY TO SUPPORT SAC, TAC, AND MAC BY 65 TO 70 PERCENT. WITHOUT PULST-LEVEL ELINT, SIGNAL-LEVEL ELINT MUST BE ANALYZED AND PROCESSED. THIS LOSS DETAILED ELINT DOES NOT PROVIDE ENOUGH INFORMATION TO SUPPORT THE EW REPROGRAMMING. THIS IN TURN SLOWS THE ENTIRE ELECTRONIC WARFARE INTEGRATED REPROGRAMMING (EWIR) PROCESS AND REDUCES THE NUMBER OF NECESSARY REPROGRAMMING ACTIONS THE AFWC CAN IDENTIFY IN A CONTINGENCY.

8. THE M7300 PROGRAM IS THE ONLY SYSTEM THAT MEETS SEVERAL OF AFWC REQUIREMENTS. THE LOSS OF THIS SYSTEM SEVERELY CRIPPLES THE CAPABILITY OF THE AFWC TO PROVIDE VITAL SUPPORT TO THE REPROGRAMMING COMMUNITY AND THE THEATRE COMMANDERS.

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