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** ./C BU. NO. AS MODEL A/C			AS REPORTING CUSTODIAN						
158188	A4M		UNIT VNA-331		X DISEMBARKED		MCAS B	eaufort, S	
7 SEP NO. ACDT.	AS ACDY, CLASS		AS ACDT. DATE		A10 TIM	(Local) At:	DAWN	DUSK	
2-75A	X MAJOR	MINOR	30Ncw	71	09	(8(S) D	Y DAY	NIGHT	
15 ACCIDENT LOCATION	heread heread		-		LATITUD	and the second s	LONGITUDE	I I	
34.	OZR VO	OZR VORTAC		85° 49' W		31° 34	31° 34' N		
				GHT CREW DU		GNMENT raft involved)			
DOBROW, Robert Harvey		dle)			84 SSAN/DESIG		BS CAUSE FACT		
and the later to the control of the	TIME OF ACCIDENT (CA	eck applie	1stLT	USMC		750	NIT ASSIGNED	UNO 27	
RONT REAR	LEFT RIGHT	OTHER (Sp.	ec(fy)	*	-				
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FRONT REAR	LEFT RIGHT	OTHER TSP	the second second second second						
انسان		1							
		SEC	TION C - FL	YING EXPERI	ENCE				
CF ASSIGNED DUTY ON FLIGHT SCHEDULE OR YELLOW SHEET (Last Name)			PILOT IN COMMAND		PLT/CP		OTHER	OTHER	
	,	FLIG	HT LEADER			OTHER			
-	•								
CZ TOTAL FLYING HO	URS	1	607.0		0	GEF 71			
		507.0		652.9		655.7		1 1 T	
C3 TOTAL TIME ALL SERIES THIS MODEL		4	459.3		.2	493.2			
C4 TOTAL TIME ALL SERIES THIS MODEL LAST 90 DAYS		73.0		73.0		73.0	4 4 4		
C5 TOTAL NIGHT TIME ALL SERIES THIS			75.0		••	1			
MODEL LAST 90 D		1	9.3	9	.3	9.3			
C6 TOTAL SHIPBOARD HELD LANDINGS		NONE							
		1				1			
C7 TOTAL CY LANDIN		370377				1	1 1	1 1	
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C7 TOTAL CV LANDIN D/N _ C8 TOTAL (Fixed #i LAST 30 DAYS D C9 DATE OF LAST NA INDICATE QUAL. NO	ng) CV LANDINGS /N ATOPS CHECK T QUAL. COND QUAL	NONE 3Ja	un7/ _r	Qualif	ied				
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SECTION A

TO: COMMANDER NAVAL SAFETY CENTER	AZ COPY DISTRIBUTION			
ROM: Aircraft Accident Board appointed by LiCol D. E. BANER	1 X CC NAVSAFECEN DIRECT			
ETOOL D. D. BAREA	TO BRIT OLIKE SYCKET BY AND SOUTH			
Y(A)	1 cc GG FMFLant, Norfolk, VA			

AS NARRATIVE DESCRIPTION OF ACCIDENT (GIVE A DETAILED HISTORY OF FLIGHT, OR CHRONOLOGICAL ORDER OF FACTS AND CIRCUMSTANCES LEADING TO THE ACCIDENT AS APPLICABLE). CONTINUE ON SEPARATE SHEET IF MORE SPACE IS NEEDED.

On 30 November 1974, AJAR 21, Buno 158188 departed NAS Pensacola at 15392, IFR, destined for MCAS Cherry Point, N. C. Shortly after level-off at FL310, pilot requested and was cleared to FL350 to remain VMC. Passing FL329, Jacksonville Center lost radio and radar contact with the aircraft. At 16352, the SAR Center at Fort Rucker, Alabama was called and an aircraft crash was reported 22 miles Northwest of Cairns AAF. Adverse weather (IFR/200' to 4.00' Overcast/Wind from Southwest to Southeast, 15 gusting to 20 knots/Thunderstorms in the vicinity/Radar TOPS recorded up to 20,000') hampered initial SAR effort, however, the second attempt was successful in locating the crash site and shortly thereafter locating the body of the pilot approximately one and three-quarters miles from the crash site. The remains and flight survival equipment were removed to Lyster Army Hospital. Crash site was secured by personnel from Fort Rucker.

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CAR USMC

OPRAY 3750/1 (Rev. 10-70) Page 5	SPECIAL HANDLING REC	2000年10日 10日 10日	REPORT SYMBOL OPNAV 3750-1	
	(Complete	SECTION G - DAM	AGE ()		
GI PROPERTY DAMAGE COST		PRIVATE COST	GOVERNMENT COST		
	G8	G8		G8	
G2 STHERAFT DAMAGE					
ESTROYED	MINOR	LIMITED	SUBSTANTIAL	NONE .	
FF 4/C Strone LCon Mirain	- Chr	64 DIR MANNOURL TO REPAIR	65 A/C EST HEPATI	C COS (

Aircraft totally destroyed. Wreckage confined to hole with dimensions of 40' X 35' X 8' deep. Some small components and structural material scattered around hole for approximately 200'. Crater was excavated to recover engine. Turbine section located 18' below ground level and compressor section located 20' down. U. S. Army engineers arranged with owner of wooded area where crash occurred to fill hole and improve farm road used to gain access to crash site. Owner agreed not to file claim. Cost of demage is unknown.

______ LATITUDE

DESCRIPTION (Describe briefly extent of circust and property dange incurred)

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A/C MODEL AND BUREAU NO

A4M 158188

The Dietar 5%

SPECIAL HANDLING REQUIRED IN ACCORDANCE WITH OPNAVINST 3750.6J

MEMORANDUM

14 January 1975

From: CDR J. M. FULCHER

To: Commander, Naval Safety Center

Via: 13 (, 10 01

Subj: NAVSAFECEN Aircraft Accident Investigation 22-75;

submission of

Encl: (1) Summary Report of Aircraft Mishap Board Conclusions and Recommendations; VMA THREE-THREE-ONE 301530Z DEC 1974

(2) NAVAIREWORKFAC JACKSONVILLE Engineering Investigations 090011Z/202020Z DEC 1974/092204Z JAN 1975

(3) NAVAIREWORKFAC PENSACOLA Engineering Investigations 192230Z/202341Z DEC 1974

- 1. A-4M, BUNO 158188, assigned to MARINE ATTACK SQUADRON THREE-THREE-ONE, based at MCAS Beaufort, South Carolina, crashed and was destroyed (ALFA), 22 miles northwest of Cairns Army Air Field, Ozark, Alabama, on private property, at 1052 local on 30 November 1974. The pilot, 1ST LT R. H. DOBROW, USMCR, 092-36-9199/7501, ejected and received fatal injuries. Damage to private property was minimal.
- 2. The aircraft was on a scheduled IFR cross-country return flight from NAS Pensacola, Florida. The pilot had leveled at FL310 and subsequently requested a climb to FL350 in order to remain clear of weather. Jacksonville Center reported loss of radio and radar contact with BUNO 158188 at 1532Z at an altitude readout of 32,900 feet. When located, the crash site, canopy, seat and body of the pilot were separated by several miles.
- 3. The engine was shipped to NAVAIREWORKFAC Jacksonville, Florida, for engineering analysis. It was determined that the engine had failed catastrophically in flight due to severe FOD and had little or no RPM at impact. Best evidence pointed to the VSCF (variable speed control frequency) generator as the source of the FOD.
- 4. Selected aircraft components were delivered to NAVAIREWORKFAC Pensacola, Florida, for engineering analysis, and the significant results of this investigation revealed that the EPP (emergency generator), had been deployed and was turning at impact. Since radio and radar contact were not regained, the EPP apparently failed to restore power. There was also indications that the elevator disconnect had been actuated.
- 5. Recovered portions of the VSCF were hand carried to GE (General Electric), Erie, Pennsylvania, (the manufacturer), for

SPECIAL HANDLING REQUIRED IN ACCORDANCE WITH OPNAVINST 3750.6J

SPECIAL HANDLING REQUIRED IN ACCORDANCE WITH OPNAVINST 3750.6J

NAVSAFECEN AIRCRAFT ACCIDENT INVESTIGATION 22-75

further analysis. A second failed VSCF generator was also delivered and analyzed concurrently with the investigation of the
mishap generator. The investigation confirmed that the generator
from the crash site had suffered a case separation, loss of coolant/lubrication and had subsequently failed inflight. It was
also confirmed, however, that the generator did not fail catasthrophically, i.e., disintegrate due to overspeed. Later investigation at NAVAIREWORKFAC Jacksonville, with GE, PWA, NAVAIR and
NAVSAFECEN participation, concluded that the generator case
separation had allowed the unit to "droop" from its linear axis
sufficiently to interfere with, or flail against, the compartment housing. Pieces of the sheet metal housing and VSCF then
became FOD.

- 6. All components relating to the unsuccessful ejection attempt were hand delivered to NAVAIREWORKFAC, Pensacola, Florida, for engineering analysis. Representatives from NADC Warminster, Pennsylvania, NAVAIRECOVFAC, El Centro, California, Douglas Aircraft Corporation, and the NAVSAFECEN investigator, participated in a joint investigation of the subject components. It was determined that the ejection seat functioned normally up to the sequence involving man/seat separation. It was further determined that the parachute had been manually activated (pilot pulled D-Ring), but did not completely deploy, and was fouled with the raft, seat pan deployment line and pilot. There was evidence that the ditching handle was improperly seated in its detent, negating automatic parachute deployment and that the RSSK-8 seat pan was not locked and came open at man/seat separation, allowing the bottom half of the kit to hang up, resulting in raft deployment and subsequent parachute fouling.
- 7. COMNAVAIRSYSCOM has directed that changes in both the RSSK-8 and ESCAPAC IF3 be incorporated to prevent the factors which proved fatal in this mishap.
- 8. Numerous inflight case separations of the GE VSCF have been documented. All A-4M aircraft equipped with VSCF were grounded pending incorporation of Airframes Change No. 460 to the generator, which improves case integrity. An installed modified VSCF under the cognizance of NAVAIR is undergoing current flight testing, and should shed additional light on this problem. In addition, adherence to a rigid quality assurance program, and scheduled quality audit at the contractor, is expected to improve unit reliability.

Very respectfully,

CDR J. M. FULCHER