DOCKET No.: SA-521

EXHIBIT No. 7F

NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C.

AIRWORTHINESS GROUP CHAIRMAN'S FACTUAL REPORT ATTACHMENT V: Service Difficulty Reports (SDR)

K alu ri	To Ma	h M	enin.									ka termi	Ţ	Adhar Qi	iệr)	1			
1. Submitter	Infor	nati	on						-			-							
(a) Unique Control #		A99()108				Sei	rvice Diff		-	Repo	rt			1	7			
(b) Difficulty Date		1999]		A 2 4	SI			3 4	4		U.S. Dep					
(c) Registration Number		,						Carrier and S	Stru	ctui				of Transp Federal	Avid	atic	n		
(d) Submitter Type	i i arriei	PAR	T 121	(A)				Rep	ortin	ıg	<u> </u>	_		Admin	istro	atic	חנ		
2. Codes					3. Major Equipment Identity														
(a) JASC Code	2731					(a) Ope	erator Desig	nator	nator ARWA Op			Operator Type Air Carrier ((A)			
(b) When Discovered		NSP/MAINT (IN) (c) How						Manufac	urer	Mo	del	Serial Number		Total Time		`ota ycle			
(d) Nature of Condition	. синн	R (O))			(ъ) А	ircra	ft DOU	£	DC	863F	45969)						
(e) Action Taken	NONE	(K)				(c)]	Engin	ie											
(f) FAA Region	SO (g) Dis	t.Off.	19	(d) Pro	pelle	er											
4. Problem Description												· -							
MIA - FLT 617 - P SHOT FOUND LE AND REPLACED	FT ELE	VAT	OR GE	EAR TAB CRAN	NK A	ARM	I ASS	EMBLY INE	OAR	D AN	ID OU	TBOAR	DI	BROKEN, RE	MO	LE VE	D		
5. Specific Pa	rt Or	Str	uctu	re Causing l	Dif	ficu	lty												
(a) Part Name	(b) Mar	ıufac	turer	(c) Part	Nur	nbe	r			(d) Serial Number									
ARM																			
(e) Part	(f) Par			(g) Total		h) To			(i) Time C Overhaul										
Condition BROKEN		catio VAT		Time	Cycles Since Repair														
6. Componen				het Include) of		o Dowt											
(a) Component N				nufacturer	2 I			umber	<u> </u>	ı. C	ial Nu		_	() M = J = 1	N T	-1			
(a) Component I	Valile		b) IVIA	nuiaciurei	_	(c) I	art	Number_	(a) Ser	iai Nu	mber	+	(e) Model	Nun	nbe			
(f) Location	,		(a) To	stal Time		љ) [′]	Fotal	Cycles		-	(a) Tie	ne Sinc	~ I '	Overhaul					
(i) Document	(f) Location (g) Total Time						TOTAL	Cycles			(1)_111.	ne Snic	٦,	Repair Inspection	-		İ		
7. Structure (Causir	ıg D	iffic	ulty															
(a) Body or Fuselage Station Water								(b) Cracl	ι Len	gth (inches)		N	umber Of C	rac	ks			
	From /At: To: From /						To:												
From /At S	t Stringer Left Right To Strii				ger			From /At ButtLin			Line Left Right			To ButtLine			Right		
	C C										C C								
From /At Wing	gStatio	To WingStat	ion		Right	Struc	Structural Other (c) (Corrosion Level 2						

Refuer 1	о Ма	n M	enu	e Marie								Return	Ŧ	. Adhar Q	1 0 1			
1. Submitter l	nfor	mati	on			Т												
(a) Unique Control #	TC8A		•		· · · · · · · · · · · · · · · · · · ·	1		Ser	vice Diff			ort			1			
(ъ) Difficulty Date	03/20/	1996			-]_		4 i C	S] Sarrier a			A ! - 4!		U.S. De				
(c) Registration Number	805CI	<							nal and	Stru	ctural I			of Trans	Avi	ation		
(d) Submitter Type	Carrie	r PAF	RT 12	1 (A)					Rep	ortin	g			Admin	istr	ation		
2. Codes								3. Major Equipment Identity										
(a) JASC Code								(a) Ope	rator Desig	gnator	TC8A	Opera Ty	tor /pe	I AIFLAMMETIAI				
(b) When Discovered	INSP/MAINT (IN) (c) How						•		Manufac	turer	Model	Serial Numbe		Total Time		Total ycles		
(d) Nature of	ОТНЕ	THER (O)				1				_								
Condition (e) Action Taken	NONE							Aircraf Engine		G	DC851	45649	,					
(f) FAA Region			st.Of	f. 23		+,		opelle					_					
4. Problem De			-				<u>-,</u>	орене	<u>-1</u>									
STAB TRIM, OR PI	ROBLE	EM W	ITH I	OAD	CAUSING	3 FL	JLL	DOWN	ELEVATO	OR. ON	POST F	LIGHT II	NSF	ECTION FO	UNI)		
RIGHT ELEVATOR INBOARD LINK. C	R GEAL CHECK	R TAI ED E	B CR. LEVA	ANK A	RMS BRORING	OKE . FC	EN. I DUN	REPLA D GOO	CED INBO	ARD A	AND OUT 5-0. (M)	TBOARD	CR	RANK ARMS	AN	D		
5. Specific Par						_												
(a) Part Name			factu		(c) Pa					(d) Serial Number								
ARM ASSEMBLY					4	710	542											
			Defe	ct	(g) Total			Total	(i) T		C Overhaul C Repair							
(e) Part Condition BROKEN		Loca	tion VAT(ND I	Time	-	<u>C</u>	ycles	Sir	100 -	Inspection	1						
					In alm d	_ <u>_</u> _		-45	Dood	ŀ								
6. Component (a) Component N				nufac		SL		Part No		(1)	Serial N		_	() \ (a d - 1	NI	. 1		
(a) Component 14	arric	— '	U) 1 V1 0	murac	iuici		(0) 1	alt IN	HIIDEI	(0)	Sellal IN	umber	+	(e) Model	IVUI	noei		
(f) Location			(a) T	otal Ti	ime		w) '	Fotal (veles	_	(a) Ti	ime Sinc	~ I '	Overhaul				
(i) Education			(6) 1	<u> </u>	iiiic		(11)	i Ottai C	yeres_		(1) 17	ine ome	-1	Repair Inspection				
7. Structure C	ausii	ng D	iffic	ulty														
(a) Body or Fuselage Station Water							;	T	(b) Cracl	Len	th (inches)	N	umber Of C	rac	ks		
From /At: To: From /A						\t:		To:										
From /At Stringer Left Right To Strin					_	_						To ButtLine Left Right						
							Ç	C								<u> </u>		
From /At Wing	Statio	tation Left Right To WingStat							Struc	tural	Other		c) Corrosion Level 2 3					
	CC						lol o l				1 (6)	(c) Corrosion Le			cl c			

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1. Submitter	Infort	nation						1	D	:.cc:			Ī	**		-		
(a) Unique		0180314	.0			1	S	erv			lty Rep	ort	1		Á			
Control #						ł			S	\mathbf{D}	R				•			
(b) Difficulty Date	1 Z/Z//ZU	000					Fo	r A			 nd Gen	eral		U.S. Department				
(c) Registration						1				viatio		VI WI		of Transp				
Number							Operational and Structural Federal Administr											
(d) Submitter Type	i Camieri	PART 121	(A)			l		\mathbf{D}	ifficu]	-								
2. Codes						3. Major Equipment Identity												
(a) JASC Code	2730					(a) Operator Designator				signator	DHLA	Operat Ty		I AIFI SMIPELAI				
(ь) When Discovered		TAKEOFF (TO) (c) How Other (O)							Manu	facturer	Model	Serial Numbe	П	Total Time		otal cles		
(d) Nature of Condition	і (зінкк	OTHER (O)							DO	OUG	DC873F	_46123	,			_		
(e) Action	IARCIRI	ED TAK	EOF	F (C)			() Farrier						T					
Taken							(c) Er Prop						+					
(f) FAA Region 4. Problem 1		Dist.Off	. 0		ener	L						_						
NO NOSE DOW			TOL	ELEVATOR (CHE	CK	FOU	ND F	I.EVA	TOR TA	BS OUT C	F RIG.	ADI	USTED EL	.EVA	TOR		
CONTROL TAB										TOR TAL	00001	71 1010.7		COTED EL		· · · · ·		
5. Specific P	art Or	Struct	ure	Causing D	iffi	cu	lty											
(a) Part Name	(b) M a	nufactur	er	(c) Part	Nun	nbe	τ			ber	er							
TAB								╄			C 0t							
(e) Part		rt /Defec	t	(g) Total		(,, , , , , , , , , , , , , , , , , , ,					C Overhaul							
Condition OUT OF RIG		ocation EVATOR		Time	_	ус	les	╁╴	Sinc		Inspection							
6. Compone	.		Th	at Includes	s D	efe	ctiv	Pa	rt			-			_			
(a) Component				facturer			art N		_	(d) S	erial Nun	iber		(e) Model 1	Numi	ber		
(-, -						(-, -				. (-/				(.,,				
(f) Location	on	(g)	Γota	l Time		(h)]	Total	Cycl	es		(i) Time	Since		Overhaul Repair				
	(i) Docation (g) Total Time													Inspection				
7. Structure	Causii	ng Diffi	cul	ty						•								
(a) Body or Fuselage Station Waterline								(b)	Cracl	k Lengtl	(inches)	ľ	Vun	nber Of C	rack	S		
F	rom /At:	To:	T	From /A	t:		То:											
From /At	/At Stringer Left Right To Stringer				_			Fre	om /At ButtLine Left Rig			ht	7	To ButtLine		ft Right		
					\mathbf{c}	C								<u></u>				
From /At Wi	WingStation Left Right To WingStation						_	Structural Other (c) Co				Corrosion Level						
	0.0					C	C						(c) Corrosion Devel		<u>``]ɾ</u>	<u>. ا د</u>		

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1. Submitter	·Inf	orn	nati	on				Т		~		1.00						_		
(a) Unique Control #	RR	XA(0010	64				7	Δ	Servi		D		y Rep •	ort			(2	
(b) Difficulty Date	10/1	0/20	000						F	or Ai	. –			L id Ger	ieral	ļ	U.S. Department			
(c) Registration Number	811	AL					-		(Iner	_	Aviat		Struct	nral	ı	of Trans	Av	íatic	חג
(d) Submitter Type	Carr	rier P	PART	121	(A)					-				orting	u. u.	ı	Admin	nist	ratio	חמ
2. Codes						3	3. Major Equipment Identity													
(a) JASC Code	2730	0			_				(a)	Opera	tor D	esigna	tor	RRXA	Operat Ty		I AIFL ATTICT LAI			
(b) When Discovered	TAK	TAKEOFF (TO) (c) How Other (O)									Manı	ıfactu	rer	Model	Serial Numbe		Total Time		Total Cycle	
(d) Nature of Condition	FLT	LT CONT AFFECTED (F)							(b) A i	rcraft	D	OUG		DC871	46099	46099 52262			2141	8
(e) Action Taken	ABC	ABORTED TAKEOFF (C)								ngine										
(f) FAA Region	15		(peller			1			╗		_							
4. Problem Description																				
REJECTED T/O DUE TO NO ELEVATOR CHECK, ASKED FOR FREIGHT REWEIGH (120 KNOTS). PERFORMED REJECTED																				
T/O INSPECTION DEFECTS NOTE:	I IAW	V EV	VA W	ORK	CARD	SP001. 1	NO I	DEF	ECTS	NOTI	ED. IN	SPEC.	ΓED	ELEVA	TOR IA	W]	MM 27-30-1	1. N	0	J
5. Specific P	art (Or :	Stri	uctu	re Ca	using l	Dif	ficu	lty											
(a) Part Name		(b)) Mai	nufac	turer	(c)	Part	Nu	Number (d) Serial Number											
WARNING SYS	ГЕМ		-																	
() Danie Cam dist		(1	•	rt /De		(g) To			h) Tot		(i) Time C Overhaul									
(e) Part Conditi MALFUNCTION		-		catio VAT		Tim	ie	╀	Cycle	s	3	ince		rspection						
6. Componer		A cc		_		noluda	o T		otis.	a Dar	rt.							_		
(a) Component					nufactu		-3 L			umbe		(4)	Sa-	ial Nun	nher I		(e) Model 1	Ni	nha-	
(a) Component	140111			0) 1416	muracio	ii Ci		(6) 1	aiti	umoc	,1	(u)	361	Iai Ivuii	ildei	_	(e) MIOGEL	(VU)	HUCI	
(f) Locatio	n	耳		(g) T	otal Tin	1e		(h) '	Γotal	Cycle	s			(i) Time	e Since		Overhaul Repair			
																\mathbf{C}	Inspection			
7. Structure	Cau	<u>ısin</u>	g D	iffic	ulty	_														
(a) Body or Fuselage Station Waterline										(b)	Cracl	(Leng	gth (inches)	N	lui	nber Of C	rac	ks	
From /At: To:						From //			То:											
From /At Stringer Left Right					o Strin	ger	_		Fro	om /At ButtLir		ine			To ButtLine				tight	
			င	C									4		\subseteq					
From /At WingStation Left Rig			Right	To W	'ingStat	tion	Left	Right Structural Other (c) Cor					orrosion Level 2 3							

Reidi	To Mai	, Mic	mi				<u> </u>					leturn]	o /	adhar Q	ner.	1		
1. Submitter	Inforn	natio	on		Ţ		~		~~		70		T					
(a) Unique Control #		7000	30]		Ser	vice Dij S	D]		_	ort			(2		
(b) Difficulty Date	03/13/19	997			Fo	r	Air C	arrier a				Aviatio	n	U.S. De				
(c) Registration Number	630BX				lo	pε	eratio	nal and			ral I	Difficult	y	of Trans Federal Admir	Avi	atio	on	
(d) Submitter Type	Carrier	PART	`121	(A)	1			Rep	ortin	ıg			1	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
2. Codes					3.	M	1ajor	Equipn	ient l	de	ntity		-					
(a) JASC Code	2730					(a) Operator Designator						Operate Typ		I AIFLATTIET (A)				
(b) When Discovered		KEOFF (TO) (c) How						Manufacture		rer Model		Serial Number		Total Time		Fota 'ycl		
(d) Nature of Condition		NT A	FFE	CTED (F) (W)		(b) .	Aircraf	t DOU	JG	DO	C871F	45973						
(e) Action Taken					_		Engin						\bot					
(f) FAA Region 4. Problem I) Dist	.Off.	23	(d)) P :	ropelle	r										
TAKEOFF WAS NOTIFIED. MAIN INSPECTION OF THE ATTACHIN CATALOG, 27-30 VERIFY NORMA	NTENANO THE RIC G BOLT I D-0 FIGUI	CE IN SHT E HEAI RE 53	SPEC LEV DS. T. . THI	CTED THE CONT ATOR TAB DRIV HE INSTALLATI E AIRCRAFT TH	TROI VE T ON '	L S UE W	SYSTEN BE ASS AS COF	IS OF THI EMBLY, V RECTED	E ELEV VASHE USINC	/AT ERS TH	OR FO WERI IE DO	OR DEFEC E FOUND UGLAS II	CTS INS LLU	. DURING STALLED ISTRATEI	TH BEI PA	E NEA .RT	S	
		_		re Causing D														
(a) Part Name	(b) Mai	nufac	turer	(c) Part 1	Vum	be	<u>r</u>			(d) Serial Number								
ELEVATOR (e) Part	(f) Par	t /De	fect	(g) Total	(h)	To	otal	(i) Tin	ne 💽 (Overhaul								
Condition	•	catio		Time			les	Sinc		Repair Inspection								
JAMMED	CO	VAT NTRO)L	1098				109	8					_				
				That Includes					_									
(a) Component	Name) Ma	nufacturer	(0	c) F	Part Nu	mber	(d)	Ser	ial Nu	ımber	┡	(e) Model	Nu	mbe	er	
(f) Locatio	n		(g) To	otal Time	(l	h) 7	Γotal C	ycles			(i) Ti	ne Since	~	Overhaul Repair Inspection				
7. Structure	Causin	σD	iffic	ultv						_			-	_			_	
(a) Body or F	ine	-	T	(b) Cracl	Leng	th (inches)	1	Nun	nber Of (Crac	eks						
From /At: To: From /A																		
From /At Stringer Left Right To String							Right	ht From /At ButtLine Left Right			ight		To ButtL	ine	Left	Right		
0 0					្ឋ	C							$oldsymbol{ol}}}}}}}}}}}}}}}$	\sim	L			
From /At WingStation Left Right To WingS					on L	eft	Right	Structural Other (c) C					Cor	rosion Le	vel	2	3	



ter Remoti	g Ma	N										Ratur	n To	Adhac Qi	iery			
1. Submitter I	nfor	mati	ion					Sei	vice Dif	ficu	ilty Ren	ort			_			
(a) Unique Control #	IXX	A960)7					50.	S									
(b) Difficulty Date		/1996	5] [or	Air 1	Carrier a			Aviot	ion	U.S. Department of Transportation				
(c) Registration Number	821B							ratio	Federal	Federal Aviation Administration								
(d) Submitter Type	Carri	er PA	RT 12	21 (A)		_			Rep					Admir	HETCO	ION		
2. Codes							Mε	ajor [Equipme									
(a) JASC Code							(a) Opei	rator Desigr	ator	IXXA	_	erator Type					
(b) When Discovered	TAK	EOFF	(TO)) (c) How		Manufacturer M				Model	Seri Numl		Total Time	To Cyc			
(d) Nature of Condition	ОТН	OTHER (O)					(b) Aircraft DOUG				DC871F	458	11					
		ABORTED TAKEOFF (C) (D)					(c) Engine (d) Propeller											
	AA Region GL (g) Dist.Off. 23																	
4. Problem Description TAKEOFF OUT OF OAK WAS ABORTED AT 80 KT DUE TO AN ABNORMAL ELEVATOR EFFECTIVENESS CHECK. (M)																		
									ABNORMA	L EI	LEVATOR	EFFEC.	TIVEN	NESS CHEC	K. (M)		
5. Specific Par	rt Or	Str	uctu	re C	ausing]	Dif	ficu	ılty			_							
(a) Part Name	(b) N	<u> Ianuf</u>	actur	er	(c) Pa	rt N	umb	er			(d)	Serial N	lumb	ег				
CONTROL																		
(e) Part Condition		Part /1 Locat	Defec	t	(g) Total						C Overhaul Repair							
NOT EFFECTIVE			TOR		Time						Inspection	1						
6. Component					Include	o T) of c	otiv	Dort									
(a) Component N				nufac		-3 L			lumber		d) Serial N	Jumber	$\overline{}$	(e) Model	Numb	\ <u>\</u>		
(w) component :			0) 1110		, turor	_	(0)	uit I	dinoci	·····	d) Dellai i	dilloci	╅	(c) IVIOGCI	I VUIIIC	,C1		
(f) Location			(g) To	otal T	ìme		(h) [']	Total	Cycles		(i) T	ime Sin	ce	Overhaul Repair Inspection				
7. Structure C	ansii	10 D	iffic	nltv														
(a) Body or Fus			Water	·line	:	T	ტ) Cracl	Lei	ngth (inches	s)	Nu	mber Of C	racks					
From /At: To: From /A								To:										
From /At Stringer Left Right To Stri									From /At ButtLine Left Right					To ButtLine Left Right				
						0		C C						٦	7			
From /At WingStation Left Right To WingSta					tion	Left	Right	Structural Other					rosion Lev	2	3			
C C							C	C	(c) Corro						ر وا	_		