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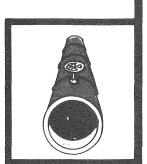
PB86-916913

NATIONAL **TRANSPORTATION** SAFETY **BOARD**

WASHINGTON, D.C. 20594

AIRCRAFT ACCIDENT REPORTS

BRIEF FORMAT U.S. CIVIL AND FOREIGN AVIATION **ISSUE NUMBER 17 OF 1984 ACCIDENTS**



SEP 19 1986

NTSB/AAB-86/13

Doc **NTSB AAB** 86 13 Issue 17



UNITED STATES GOVERNMENT

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Washington, D.C. 20594						
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NATIONAL TRANSPORTATI		1984 in Brief Format				
Washington, D. C. 20	594	14.Sponsoring Agency Code				
15 Sunnlementary Notes						

16.Abstract

This publication contains selected aircraft accident reports in Brief Format occurring in U.S. civil and foreign aviation operations during Calendar Year 1984. Approximately 200 General Aviation and Air Carrier accidents contained in this publication represent a random selection. This publication is issued irregularly, normally eighteen times each year. The Brief Format represents the facts, conditions, circumstances and probable cause(s) for each accident.

File Numbers: 5000 through 6012

17 AVEX + WORD accident, probable certificate/rating, injuricate operating certificate, fli accident occurred during, weather	18 Distribution This document to the public National Techn mation Service field, Virgini	through the laical Infor- e, Spring-	
19.Security Classification (of this report) UNCLASSIFIED	20.Security Classification (of this page) UNCLASSIFIED	21.No. of Pages 286	22.Price

FOREWORD

The National Transportation Safety Board, in accordance with the provisions of Title VII of the Federal Aviation Act of 1958 (as amended) and Section 304(a) of the Independent Safety Board Act of 1974, has determined the probable cause(s) of the accidents reported herein.

This publication is issued eighteen (18) times per year and contains approximately 200 U.S. and foreign aircraft accident/incident reports arranged in state and date order.

The enclosed computer briefs are the reports of the National Transportation Safety Board and thereby subject to the limitations of 49 USC 1441(e) which states:

"No part of any report or reports of the Board, relating to any accident or the investigation thereof, shall be admitted as evidence or used in any suit or action for damage growing out of any matter mentioned in such report or reports."

In reading these reports, it should be borne in mind that they are produced directly from records on magnetic disk by electronic data processing equipment. Due to spacing limitations a number of abbreviations are utilized in the narrative section. Therefore, caution should be exercised in reading this section on the Briefs of Accidents.

Collisions between aircraft are treated as one accident. An analysis is done on each aircraft involved in a collision. This produces two aircraft accident records per accident. Consequently, when compiling information on accidents involving collisions between aircraft, the number of accident records will exceed the number of accidents.

The Briefs of Accidents contain the essential information which fulfill most requirements of persons using these reports. However, for those having a need for more detailed information, the original factual reports are on file in the Washington Office of the National Transportation Safety Board. Upon request, these reports will be produced commercially for a fee to cover reproduction and postage. The cost will be assessed per printed page and photograph(s) reproduced.

Copies of material ordered will be mailed from the Washington business firm that holds the current contract for commercial reproduction of the Board's public files. Billing is also direct to you by the same company.

Orders for this material will also involve a user service charge by the Board for special services. This charge is in addition to the cost of commercial reproduction of material and will be included in the bill from the commercial reproduction firm.

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DEFINITIONS

The following definitions contained in CFR 49, Part 830, Paragraph 830.2 apply when used in this publication.

Aircraft Accidents

An occurrence associated with the operation of an aircraft which takes place between the time any person boards the aircraft with the intention of flight until such time as all such persons have disembarked, and in which any person suffers death or serious injury as a result of being in or upon the aircraft or by direct contact with the aircraft or anything attached thereto, or in which the aircraft receives substantial damage.

Fatal Injury

Any injury which results in death within 30 days of the accident.

Serious Injury

Any injury which 1) requires hospitalization for more than 48 hours, commencing within 7 days from the date the injury was received; 2) results in a fracture of any bone (except simple fractures of fingers, toes, or nose); involves lacerations which cause severe hemorrhages, nerve, muscle, or tendon damage; 4) involves injury to any internal organ; or 5) involves second or third degree burns affecting more than 5 percent of the body surface.

Substantial Damage

1) Except as provided in subparagraph (2) of this paragraph, substantial damage means damage or structural failure which adversely affects the structural strength, performance, or flight characteristics of the aircraft, and which would normally require major repair or replacement of the affected component. 2) Engine failure, damage limited to an engine, bent fairings or cowling, dented skin, small punctured holes in the skin or fabric, ground damage to rotor or propeller blades, damage to landing gear, wheels, tires, flaps, engine accessories, brakes, or wingtips are not considered "Substantial Damage" for the purpose of this part.

OCCURRENCE

Occurrence relates to the immediate circumstance of the event. Occurrences are numbered in descending order and directly relate to the phase of operation. Some examples of occurrences are as follows:

Gear Collapsed

Collapse of the landing gear due to mechanical failure other than malfunction of the retracting mechanism.

TYPE OF OPERATING CERTIFICATE/TYPE OF OPERATION

The type of operating certificate/type of operation refers to the purpose for which the aircraft is being operated at the time of the accident. This type of operating certificate is broken into two categories. These categories are:

1. GENERAL AVIATION

This operating certificate refers to operations involving U.S. and foreign aircraft owned and operated by persons, businesses, corporations, et cetera. This category also includes public use aircraft.

To further define General Aviation operations we have classified the following:

Personal

Flying by individuals in there own or rented aircraft for pleasure, or personal transportation not in furtherance of their occupation or company business.

Business

The use of aircraft by pilots (not receiving direct salary or compensation for piloting) in connection with their occupation or in the furtherance of a private business.

Corporate/Executive Operations

The use of aircraft owned or leased, and operated by a corporation or business firm for the transportation of personnel or cargo in furtherance of the corporation's or firm's business, and which are flown by professional pilots receiving a direct salary or compensation for piloting.

Instructional Flying

Refers to flying accomplished in supervised training under the direction of an accredited instructor.

Other Flying

Includes other kinds of flying not covered under the other broad categories. In some instances the criterion of direct financial return may or may not be present.

2. AIR CARRIER

This operating certificate refers to all operations conducted for direct financial return except instructional flying. It includes Domestic/Flag Air Carriers, Supplemental Air Carriers, All Cargo Air Service Air Carriers, Commercial Operators, Air Travel Club, and Corporate (14 CFR 125) operations. Also included in this category are Commuter Air Carrier and On-Demand Air Taxi operations.

Airframe/Component/System Failure/Malfunction

Occurrences resulting from failure of any part of the airframe/component/system while in flight or in motion on the ground. Excludes failure resulting from contact with another airplane or object, or impact with the ground, or damage from landing gear collapse or retraction.

Powerplant - Loss of Power

Occurrences of engine failure or malfunction for any reason. Includes engine stoppage, power interruption, or power loss, actual or simulated.

PHASE OF OPERATION

The phase of operation relates to the particular segment of the flight or occurrences during which the circumstances of the accident occur.

CAUSES AND RELATED FACTORS

In determining probable cause(s) of an accident, all facts, conditions and circumstances are considered. The object is to ascertain these cause-effect relationships in the accident sequence about which something can be done to prevent recurrence of the type of accident under consideration. Accordingly, for statistical purposes where two or more causes exist in an accident, each is recorded and no attempt is made to establish a primary cause. The term factor is used to denote those elements of an accident which further explain or supplement the probable cause(s). Additional items that are not categorized as cause or factors are indicated as findings. These items are of interest in the investigation, however, they do not relate directly to the cause of the accident.

BASIC WEATHER CONDITIONS

The types of weather conditions (VMC/IMC) are determined in accordance with the prescribed minima in Part 91 of the Federal Aviation Regulations. These minima pertain to the ceiling and visibility, in conjunction with the type of airspace at the accident site. Type of weather conditions are based on surface weather as determined from officially recognized sources. Weather conditions encountered in flight are not necessarily representative of the classifications VMC/IMC as carried under Weather Data.

FILE ORDER LISTING

ISSUE NUMBER 17

CALENDAR YEAR 1984

File Order Listing - Issue No. 17, 1984

File Number	Aircraft Regist.	Date	Location	Aircr Make 	aft Model	Injury Index	Page
5000	876AA	010784	SEATTLE, WA	BOEING	727-223	NONE	250
5001	25	012084	YAKIMA, WA	CESSNA	CE500	NONE	252
5002	206RH	022884	KALAUPAPA, HI	CESSNA	402C	NONE	114
5003	88709	032284	DENVER, CO	BOEING	727-224	NONE	48
5004	766AS	010584	SEATTLE, WA	BOEING	B-727-90C	NONE	248
5005	75738	011484	KOTZEBUE, AK	CESSNA	207	NONE	2
5006	6968Q	030384	ATLANTA, GA	BEECH	19A SPORT	NONE	108
5007	8495E	021484	ANCHORAGE, AK	BELL	47G-2A	NONE	4
5008	82NA	010184	ATLANTIC OCEAN, AO	MCDONNELL DO	DC-10-30	MINOR	12
5008	656PA	010184	ATLANTIC OCEAN, AO	BOEING	747-121	MINOR	14
5009	8830E	052684	SALT LAKE CITY, UT	BOEING	727-200	NONE	238
5010	903TC	021584	TULSA, OK	NIHON	YS-11	NONE	210
5011	8852E	012084	TAMPA, FL	BOEING	727-225A	NONE	68
5012	2969	021084	WEST PALM BEACH, FL	GRUMMAN	G-73	NONE	72
5013	9707Y	021184	OPA LOCKA, FL	BEECH	95-A55	NONE	74
5014	808 <u>1</u> U	012384	CHICAGO, IL	MCDONNELL DO	DC-8-61	NONE	118
5015	5243Q	051684	MANSFIELD, OH	CESSNA	152	NONE	202
5016	2827U	033084	PARKERSBURG, WV	PIPER	PA-34-200T	FATAL	268
5017	348W	011784	JACKSONVILLE, FL	BEECH	D18S	NONE	66
5018	88706	032084	KANSAS CITY, MO	BOEING	727-224	SERIOUS	168
5020	15ST	022484	GROTON, CT	LOCKHEED	382G	NONE	56
5021	4620	052484	BAHAMAS, OF	BOEING	727-35	NONE	200
5022	31088	011484	DURANGO, CO	SWEARINGEN	SA227-AC	NONE	44
5023	35479	012084	REDDING, CA	PIPER	PA-31-350	NONE	18
5024	112FB	060384	WEST PALM BEACH, FL	GRUMMAN	G-111	NONE	82

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File Number	Aircraft Regist.	Date	Location	Aircr Make 	aft Model	Injury Index	Page
5025	756SS	051784	DULCE, NM	CESSNA	U206G	NONE	182
5026	132EM	050484	MIAMI, FL	EMBRAER	EMB-110P1	NONE	78
5027	313BA	022284	CHAMPAIGN, IL	BEECH	99	NONE	120
5028	708 ZW	051584	BATTLE CREEK, MI	DEHAVILLAND	DHC-7-102	NONE	158
5029	4753C	062684	ANCHORAGE, AK	FAIRCHILD	C-82A	NONE	10
5030	75941	062584	LARSEN BAY, AK	CESSNA	207A	NONE	8
5031	794N	030884	ERLANGER, KY	BOEING	737-200	NONE	144
5032	724DA	060384	FT.LAUDERDALE, FL	LOCKHEED	L-1011	NONE.	80
5033	1113J	012684	RICHMOND, VA	BRITISH AERO	1-11	NONE	244
5034	32139	061484	CHOWCHILLA, CA	PIPER	PA-32-300	NONE	34
5035	7831F	022084	RIVERSIDE, CA	CESSNA	150F	NONE	22
5035	6496M	022084	RIVERSIDE, CA	CESSNA	152	NONE	24
5036	150US	051784	MINNEAPOLIS, MN	MCDONNELL-DO	DC-10-40	NONE	162
5037	123CZ	060484	SPOKANE, WA	BEECH	1900C	NONE	254
5038	492DM	071784	COLUMBIA, MO	BEECH	C-45H	NONE	172
5039	1014P	062984	GRAND ISLAND, NE	SWEARINGEN	SA227-AC	NONE	178
5040	1993	031084	DFW AIRPORT, TX	BOEING	727-23	NONE	228
5041	888B	030784	FORT WORTH, TX	BEECH	BE-200	NONE	226
5042	7360A	082084	REDDING, CA	CESSNA	172	NONE	38
5043	203AA	021784	SANTA ANA, CA	MCDONNELL DO	DC-9-82	NONE	20
5044	8924E	021684	FOREST PARK, GA	MCDONNEL DOU	DC-9-31	NONE	106
5045	9015U	070984	PORTLAND, OR	BOEING	B737-222	NONE	216
5046	50319	081884	GASTONIA, NC	CESSNA	150H	NONE	176
5047	411EA	082584	ORLANDO, FL	MCDONNELL DO	DC-9-51	NONE	88
5048	751PA	041484	MARTINIQUE, OF	BOEING	747-121	NONE	198

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File Number	Aircraft Regist.	Date	Location	Aircr Make	aft Model	Injury Index	Page
5049	2969	041784	FT. LAUDERDALE, FL	GRUMMAN	G-73T	NONE	76
5050	417PE	062784	PORTLAND, ME	BOEING	737-130	MINOR	154
5051	401EA	012184	TAMPA, FL	DOUGLAS	DC-9-51	NONE	70
5052	FBPVS	051184	LOS ANGELES, CA	BOEING	747	NONE	26
5053	956VJ	080684	NASHVILLE, TN	MCDONNELL DO	DC-9-30	NONE	220
5054	49995	033084	CLAYTON, NC	PIPER	PA-28R-200	NONE	174
5056	237AM	052484	ALBUQUERQUE, NM	SWEARINGEN	SA226TC	NONE	184
5058	6507U	101884	SEATTLE, WA	MOONEY	M2OC	NONE	258
5058	86970	101884	SEATTLE, WA	BOEING	VC-137B-BN	NONE	260
5059	86971	093084	AKRON, OH	BOEING	VC-137B-BN	NONE	204
5059	3057L	093084	AKRON, OH	CESSNA	310J	NONE	206
5060	305MM	092484	LAFAYETTE, IN	BEECH	A36TC	NONE	142
5061	29144	102284	ORLANDO, FL	MESSERSCHMIT	BO-105	NONE	94
5062	322CS	010284	TETERBORO, NJ	LOCKHEED	1329-25	NONE	180
5063	146AP	051184	UNALASKA, AK	BRITISH AERO	BAE-146	NONE	6
5064	1014T	112984	PULLMAN, WA	FAIRCHILD-SW	SA 227	NONE	262
5065	72TM	083184	WASHINGTON, DC	BEECH	58	NONE	58
5066	31264	111484	TALLAHASSEE, FL	SWEARINGEN	SA-226AT	NONE	100
5067	8830V	102184	PALM COAST, FL	BELLANCA	17-31A	NONE	92
5068	66KA	032884	HERNDON, VA	BEECH	C90	NONE	246
5070	723RW	051784	COVINGTON, KY	BOEING	727	SERIOUS	146
5071	8711E	060584	PHILADELPHIA, PA	BOEING	720-025	NONE	218
5072	613US	092984	SEATTLE, WA	BOEING	747-200B	NONE	256
5073	3420N	080784	KISSIMMEE, FL	MOONEY	M2OF	NONE	86
5074	780JA	090384	WASHINGTON, DC	MCDONNELL-DO	MD-80	NONE	62

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File Number	Aircraft Regist.	Date	Location	Aircr Make	Model	Injury Index	Page
5074	7078U	090384	WASHINGTON, DC	BOEING	727-22	NONE	60
5075	21YF	110384	WHEELING, IL	CESSNA	T210L	NONE	134
5076	320BA	060984	CHICAGO, IL	BEECH	99	MINOR	124
5077	914MA	092984	HOUSTON, TX	DEHAVILLAND	DHC-6-300	NONE	232
5078	5115S	102684	TULSA, OK	SWEARINGEN	SA226TC	NONE	212
5079	6713D	112784	GLENDALE, CA	BEECH	C24R	NONE	42
5080	333MV	032184	MOLINE, IL	SHORT BROS	SD3-30	NONE	122
5081	13CM	070384	MUNCIE, IN	ENSTROM	F-28A	NONE	140
5082	163MA	041684	MILWAUKEE, WI	SWEARINGEN	SA226TC	NONE	264
5083	460MC	090784	WASHINGTON, DC	DASSAULT/SUD	FAN JET FA	NONE	64
5084	139PB	122784	NAPLES, FL	DOUGLAS	DC3A	NONE	102
5085	402PB	122984	SANFORD, FL	CESSNA	402B	NONE	104
5086	855TW	060284	FLUSHING, NY	BOEING	727-31	NONE	192
5087	8048U	062684	CHICAGO, IL	MCDONNELL-DO	DC-8-54	NONE	130
5089	1053U	111384	MIAMI, FL	PIPER	PA-34-200	NONE	98
5090	1992	070384	DENVER, CO	BOEING	727-23	NONE	50
5091	501SS	081384	MEMPHIS, TN	SWEARINGEN	SA226TC	MINOR	222
5092	5785V	111184	DAK CITY, UT	AEROSPATIALE	SA315B (LA	NONE	240
5092	9362	111184	DAK CITY, UT	AEROSPATIALE	SA-316 ALO	MINOR	242
5093	97RE	110584	CHICAGO, IL	ROCKWELL INT	NA-265-25	NONE	136
5094	722AA	101784	LAS VEGAS, NV	BOEING	727-227	NONE	186
5095	124AA	091584	DFW AIRPORT, TX	MCDONNELL-DO	DC-10-10	NONE	230
5096	3322L	100884	HOUSTON, TX	DOUGLAS	DC9-32	NONE	236
5096	107T	100884	HOUSTON, TX	CESSNA	CITATION 5	NONE	234
5097	264US	120484	ATLANTA, GA	BOEING	727-251	NONE	112

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File Number	Aircraft Regist.	Date	Location	Aircr Make 	aft Model	Injury Index	Page
5098	1921T	102184	FORT MORGAN, CO	BEECH	99A	NONE	54
5099	5840T	110484	SANTA ANA, CA	WESTLAND	WG30	NONE	40
5100	1806U	061084	LOS ANGELES, CA	MCDONNELL DO	DC-10-10	NONE	28
5101	2756F	101084	CHAMBLEE, GA	BELL	206B	NONE	110
5102	4867T	061884	CHICAGO, IL	MCDONNELL DO	DC-8-73	NONE	126
5103	7351F	082984	MADISON, WI	BOEING	737-291	NONE	266
5104	9058P	072984	DENVER, CO	DEHAVILLAND	DHC-7-100	NONE	52
5105	25RL	122184	AKRON, OH	BEECH	58P	NONE	208
5106	233AM	062784	JOPLIN, MO	SWEARINGEN	SA226TC	NONE	170
5108	501PA	061184	LOS ANGELES, CA	LOCKHEED	L-1011-385	NONE	32
5109	2GL	061384	PONTIAC, MI	FAIRCHILD	SA-227-TT	NONE	160
5110	518PE	072684	BUFFALO, NY	BOEING	727-232	NONE	194
5111	79CM	102984	JACKSONVILLE, FL	PIPER	PA-60	NONE	96
5112	721RW	072584	MINNEAPOLIS, MN	BOEING	727-2M7	NONE	164
5113	1852U	102784	CHICAGO, IL	MCDONNELL-DO	DC-10-30	NONE	132
5114	117AA	121284	JAMAICA, NY	MCDONNELL DO	DC-10-10	NONE	196
5116	175P	021584	INDIANAPOLIS, IN	SWEARINGEN	SA-26AT	NONE	138
5117	3613D	050784	GORHAM, ME	BARNES	FIREFLY 7	MINOR	152
5118	DABYP	122084	NEW ORLEANS, LA	BOEING	747-200	NONE	148
5118	UNK	122084	NEW ORLEANS, LA	UNKNOWN	UNKNOWN	NONE	150
5119	4712U	061184	SAN FRANCISCO, CA	BOEING	747-122	NONE	30
5120	9121V	090584	SARATOGA, WY	MOONEY	M2OF	NONĖ	270
5122	8330G	090484	DADE COLLIER, FL	PIPER	PA-28-161	FATAL	90
6001	XALAP	030384	DENVER, CO	GATES LEARJE	25D	NONE	46
6002	GSAIL	062384	CHICAGO, IL	BOEING	707-323C	NONE	128

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File Aircraft				Aircr	aft	Injury	
Number	Regist.	Date	Location 	Make 	Mode1	Index	Page
6003	DIKKS	071484	CONCORD, CA	PIPER	PA-31T	FATAL	36
6004	CGSCA	010984	ST. LOUIS, MO	DOUGLAS	DC-3C	FATAL	166
6005	хвсрн	010784	MCALLEN, TX	CESSNA	182	NONE	224
6006	CGDPP	042884	MARINE CITY, MI	CESSNA	152	NONE	156
6007	XAPIK	072484	KEY WEST, FL	MCDONNELL DO	DC-8-51	SERIOUS	84
6008	CGHLW	041684	DIAMOND LAKE, OR	CESSNA	150L	FATAL	214
6009	DQFDN	061984	BARBERS POINT, HI	CESSNA	206	NONE	116
6010	XAAMF	011084	LOS ANGELES, CA	MCDONNEL DOU	DC-9-30	MINOR	16
6011	DABYO	011884	JAMAICA, NY	BOEING	747-230	SERIOUS	188
6012	LNRKB	022884	JAMAICA, NY	MCDONNELL DO	DC-10-30	SERIOUS	190

1				
4				

AIRCRAFT ACCIDENT REPORTS BRIEF FORMAT U.S. CIVIL AND FOREIGN AVIATION ISSUE NUMBER 17 OF 1984 ACCIDENTS

File No 5005 1/14/84 KOTZEE	BUE, AK	A/C Reg. N	o. N75738	T f	me (Lċ1) -	1722 AS	т
Basic Information Type Operating Certificate-ON-DEMAND AIR	R TAXI	\ircraft Dam	age		Injur	ies	
Name of Carrier -BERING AIR	INC	MINOR	~ 5 ~	Fata1	Serious	Minor	None
Type of Operation -NON SCHED, DO	MESTIC, CARGO	ire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 135		NONE	Pass	0	0	0	0
Incident Occurred During -LANDING							
Aircraft Information							
Make/Model - CESSNA 207			NTAL TSIO-520		nstalled/A		
Landing Gear - TRICYCLE-FIXED	Number Engine			Stall	Warning S	ystem - '	YES
Max Gross Wt - 3800	Engine Type		UEL INJECTED				
No. of Seats - 6	Rated Power	- 300	HP				
Environment/Operations Information							
Weather Data	Itinerary				roximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departur			OFF AIR	RPORT/STRIP		
Method - N/A	KOTZEBUE, AK			_			
Completeness - N/A	Destination			Airport Da	ata		
Basic Weather - VMC	NOORVIK,AK			_	T 1		
Wind Dir/Speed- 080/010 KTS Visibility - 50.0 SM	ATC/Airspace					N/A	
Lowest Sky/Clouds - CLEAR	Type of Fligh	t Dian - VED	1		Lth/Wid - Surface -		
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Clear				Status -		
Obstructions to Vision- NONE	Type Apch/Lnd			Kuliway	Jiaius	N/ A	
Precipitation - NONE	Type Apony End	, ION	CED LANDING				
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 33	Medi	cal Certifica	te - VALID	MEDICAL-NO	WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Rev	iew	Fligi	nt Time (Ho			
COMMERCIAL, ATP			Total -		Last 24		5
SE LAND, ME LAND	Months Since - Aircraft Type -	2	Make/Mode1-		Last 30		100
	Aircraft Type -	C-207	Instrument-		Last 90	Days-	280
			Multi-Eng -	2025			
Instrument Rating(s) - AIRPLANE							
Narrative							
THE PLT STATED THAT SHORTLY AFTER TAKEOFF THE REVEALED THAT THE CRANKSHAFT HAD FAILED IN FASPECIFIED.							

1/14/84 KOTZEBUE,AK File No. - 5005 A/C Reg. No. N75738 Time (Lc1) - 1722 AST Occurrence #1 LOSS OF POWER(TOTAL) - MECH FAILURE/MALFUNCTION Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. ENGINE ASSEMBLY, CRANKSHAFT - FATIGUE MATERIAL DEFECT(INADEQUATE QUALITY CONTROL) - MANUFACTURER Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN Phase of Operation LANDING - FLARE/TOUCHDOWN ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1 Factor(s) relating to this incident is/are finding(s) 2

Type Operating Certificate	-NONE (GENERAL A		t Damage		Injur		
		MINOR		Fatal	•	Minor	None
Type of Operation Flight Conducted Under	-BUSINESS	Fire	Cre	-	0	0	1
Incident Occurred During		NONE	Pas	s O	O	U	•
Aircraft Information							
Make/Model - BELL 47G-2 Landing Gear - SKID	ZA	Eng Make/Model ~ LY Number Engines - 1			Installed/Atall Warnin		
Max Gross Wt - 2850			CIP-FUEL INJECTED		tali warnin	g system	1 - 140
No. of Seats - 3		Rated Power -					
-Environment/Operations Infor	mation						
Weather Data		Itinerary			Proximity		
Wx Briefing - NO RECORMethod - N/A	RD OF BRIEFING	Last Departure Point ANCHORAGE.AK		OFF AI	RPORT/STRIP		
Completeness - N/A		Destination		Airport D	ata		
Basic Weather - VMC		LOCAL		Amport			
Wind Dir/Speed- CALM				Runway	Ident -	N/A	
Visibility - 60.0	_	ATC/Airspace		,	Lth/Wid -		
Lowest Sky/Clouds -		RED Type of Flight Plan				N/A	
	13000 FT BROKEN	Type of Clearance	- NONE - FORCED LANDING	Runway	Status -	N/A	
Obstructions to Vision- Precipitation -	NONE	Type Apch/Lndg	- FURCED LANDING				
•	DUSK						
Personnel Information							
Pilot-In-Command	Ag	ge - 45	Medical Certific	ate - VALID	MEDICAL-WA	IVERS/LI	TIMIT
Certificate(s)/Rating(s)	В	ennial Flight Review		ght Time (H			
COMMERCIAL		Current - YES	Total -	561	Last 24	Hrs -	1
SE LAND, SE SEA		Months Since - 3		286	Last 30	Days- L	JNK/NR
HELICOPTER		Aircraft Type - 47G2A	Instrument- Multi-Eng -		Last 90 Rotorcr		98 288
			Multi-Elig -	•	KO (O) C)	ait	200
Instrument Rating(s)	- NONE						
-Narrative							
ACFT TAIL ROTOR STRUCK SNOW	DURING AN AUTORO	TATIVE LANDING FOLLOWING	AN ENG FAILURE.	THE SNOW DE	PTH VARIED		
		REVEALED THAT THE RT HAND					

File No. - 5007 2/14/84 ANCHORAGE, AK A/C Reg. No. N8495E Time (Lc1) - 1640 YST LOSS OF POWER(PARTIAL) - MECH FAILURE/MALF Occurrence #1 Phase of Operation CRUISE - NORMAL Finding(s) 1. UNDETERMINED 2. IGNITION SYSTEM, MAGNETO - FAILURE, PARTIAL 3. MAINTENANCE - INADEQUATE - OTHER MAINTENANCE PSNL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 4. AUTOROTATION - PERFORMED - PILOT IN COMMAND IN FLIGHT COLLISION WITH TERRAIN Occurrence #3 LANDING - FLARE/TOUCHDOWN Phase of Operation Finding(s) 5. TERRAIN CONDITION - SNOW COVERED ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Factor(s) relating to this incident is/are finding(s) 5

-Basic Information Type Operating Certificate-Al	R CARRIER - FLAG/DOMESTIC	Aircraft Damage		Injuries	
Name of Carrier -All Type of Operation -SC	IR PAC	MINOR Fire	Fatai	Serious M	linor None
Type of Operation -SC Flight Conducted Under -14 Incident Occurred During -LA	I CFR 121	Fire NONE	Crew O Pass O	0	0 6 0 1
-Aircraft Information Make/Model - BRITISH AEROS Landing Gear - TRICYCLE-RETE Max Gross Wt - 82250 No. of Seats - 93	RACTABLE Number Eng Engine Type	odel - LYCOMING AL ines - 4 e - TURBOFAN r - 6970 LBS		T Installed/Acti Stall Warning S	
-Environment/Operations Information					
Weather Data Wx Briefing - FSS Method - UNK/NR	Itinerary Last Departo ADAK,AK	ure Point		rt Proximity NIRPORT	
Completeness - WEATHER NOT Basic Weather - VMC Wind Dir/Speed- 300/005 KTS	FPERTINENT Destination UNALASKA,/ S	AK	Runy	.ASKA vay Ident - 30	
Visibility - 7.0 SM Lowest Sky/Clouds - UNM Lowest Ceiling - 10 Obstructions to Vision- NOM Precipitation - NOM Condition of Light - DAN	K/NR Type of File DOO FT OVERCAST Type of Cle NE Type Apch/Li NE	ght Plan - IFR arance - TRAFFIC ndg - ADF/NDB STRAIGH FULL ST	Run ADVISORY Run T-IN	vay Lth/Wid - 3 vay Surface - GR vay Status - DR	AVEL
Pilot-In-Command Certificate(s)/Rating(s)	Age - 57 Biennial Flight R Current	Medical (Certificate - VAI Flight Time		IVERS/LIMIT
ATP SE LAND, ME LAND	Current Months Since Aircraft Type	- 6 Make - 100 Inst	1 - 26000 /Model- 100 rument- UNK/NR 1-Eng - 22000	Last 24 Hr Last 30 Da Last 90 Da	rs - 5 lys- UNK/NR lys- UNK/NR : - UNK/NR
Instrument Rating(s) - /	AIRPLANE		-		
	THE GREEN SYS. DURING THE ROL STATED THAT THE YELLOW HYDRA REPORTED THAT MANAGEMENT HAD	L-OUT, THE PLT SEL ULIC SYS WAS USED DECIDED TO USE THE	ECTED THE EMERGE! BECAUSE OF A PRO!	NCY YELLOW SYS & BLEM WITH THE GRE	

File No. - 5063 5/11/84 UNALASKA,AK A/C Reg. No. N146AP Time (Lc1) - 1745 ADT

Occurrence
Phase of Operation

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING

Finding(s)

- 1. LANDING GEAR, NORMAL BRAKE SYSTEM INOPERATIVE
- 2. MAINTENANCE INADEQUATE COMPANY/OPERATOR MGMT
- IMPROPER DECISION COMPANY/OPERATOR MGMT
- 4. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT PERFORMED PILOT IN COMMAND
- 5. BRAKES(EMERGENCY) SELECTED -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2,3,4

Factor(s) relating to this incident is/are finding(s) 1

Type Operating Certifica	+e-ON-DEMAND ATD	TAYT	Aircraft	Damage		Injur	ies	
Name of Carrier	-UYAK AIR SERVI	CE	MINOR	Dallage	Fatal	Serious	Minor	None
Name of Carrier Type of Operation Flight Conducted Under	-NON SCHED, DOME	STIC, PASSENGER	Fire	Cre	ew O	0	0	1
			NONE	Pas	ss O	0	0	3
Incident Occurred During	-LANDING							
ircraft Information		(V== /**
Make/Model - CESSNA 2				INENTAL 10-520		Installed/Ad		
Landing Gear - TRICYCLE Max Gross Wt - 3800	- F I X E D	Number Eng		P-FUEL INJECTE		tall Warning	g System	- 162
No. of Seats - 7		Rated Power		BOO HP	,			
		nated Towe						
invironment/Operations Inf Meather Data	ormation	Itinerary			Ainpont	Proximity		
Wx Briefing - UNK/NR		Last Depart	ture Point			RPORT/STRIP		
Method - UNK/NR		LARSEN BA			O/ , A2	,		
Completeness - WEATHE		Destination			Airport D	ata		
Basic Weather - VMC	·	LOCAL			·			
Wind Dir/Speed- 270/01	O KTS						N/A	
Visibility - 15.0		ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds -		Type of F1				Surface -		
	- 3300 FT OVERCA					Status -	N/A	
Obstructions to Vision Precipitation		Type Apcn/L	-nag -	FORCED LANDING				
Condition of Light								
Personnel Information Pilot-In-Command	A	vae - 30		Medical Certific	rate - VALTO	MEDICAL-WA	TVFRS/LTM	it T
Certificate(s)/Rating(s		ge Biennial Flight F			ight Time (H		1121107 211	
COMMERCIAL	,	Current	- YES	Total -	•	•	Hrs -	5
SE LAND, SE SEA		Months Since		Make/Mode1-	103	Last 24 Last 30 Last 90	Days-	100
		Aircraft Type	e - C-207				54,5	211
				Multi-Eng -	4	Rotorcr	aft -	64
Instrument Rating(s)	- AIRPLANE							
larrative	TIE AT 2200 ET ME	THE END PEOAL	TO CHAPE	OTI COVERED TH	E WINDSHIELD	& OIL DDES	SLIDE	
12 MINS AFTER TAKEOFF WH OST. SUBSEQUENTLY, THE PL							JUKE	
ING, THE NOSE GEAR COLLAPS	ED 0 THE DOOD WAS	DAMAGED AN EV	AM DEVEALED	THE #2 CONNECT	THE DOD D/N	633403 HV	n	

File No 50	30 6/25/84 LARSEN BAY,AK	A/C Reg. No. N75941	Time (Lc1) - 1110 ADT
Occurrence #1 Phase of Operation	LOSS OF POWER(TOTAL) - MECH FAILURE, CRUISE - NORMAL	MALFUNCTION	
Finding(s) 1. ENGINE ASSEMBLY	,CONNECTING ROD - FAILURE,TOTAL		
Occurrence #2 Phase of Operation	DESCENT - EMERGENCY		· · · · · · · · · · · · · · · · · · ·
Occurrence #3 Phase of Operation	NOSE GEAR COLLAPSED LANDING - ROLL		
Finding(s) 2. TERRAIN CONDITI	ON - HIGH VEGETATION		
Probable Cause		·	
The National Transpois/are finding(s) 1	rtation Safety Board determines that 1	the Probable Cause(s) of this incide	ent
Factor(s) relating t	o this incident is/are finding(s) 2		•

File No 5029 6/	'26/84 ANCHORAGI	E,AK	A/C Reg. No.	N4753C	Т :	ime (Lc1) -	0924 AD	Γ ,
Basic Information Type Operating Certificat Name of Carrier Type of Operation Flight Conducted Under Incident Occurred During	-NORTHERN AIR CAI -NON SCHED, DOMES -14 CFR 121	LL CARGO RGO TIC,CARGO	Aircraft Damag MINOR Fire NONE		Fatal O O	Injur Serious O O		None 2 0
Aircraft Information Make/Model - FAIRCHILE Landing Gear - TRICYCLE- Max Gross Wt - 50000 No. of Seats - UNK/NR	C-82A	Number Engl	del - P&W R-280 nes - 2 - RECIPROCA - 2100 HF	TING-CARBURETO	S	Installed/Adtall Warning		
Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed - 030/005 Visibility - 30.0 Lowest Sky/Clouds - Lowest Ceiling Obstructions to Vision- Precipitation Condition of Light	5 KTS SM 7500 FT - 7500 FT OVERCAS - NONE - RAIN	T Type of Clea	C/INC C/INC nt Plan - IFR	Α 1	rport Da ANCHORA Runway Runway Runway Runway	ata AGE	ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND		e - 31 ennial Flight Re Current Months Since Aircraft Type	view - UNK/NR To - UNK/NR Ma	il Certificate Flight Stal - 64 ske/Model- 4 strument- UNK/ Ulti-Eng - UNK/	Time (Ho 100 140	ours) Last 24 Last 30	Hrs - Days- U	3 NK/NR
Instrument Rating(s)	- AIRPLANE							
Narrative URING ARRIVAL AT THE DESTINAT: ORMAL OR EMERGENCY SYSTEMS. TH AS REDUCED & SUBSEQUENTLY A WH IMBAL RING/TRAVEL NUT, P/N A76 LECTRIC ACTUATOR.	HEY ELECTED TO RETHEELS UP LANDING W	URN TO ANCHORAGE AS MADE ON A FOA	WHERE EMERGENO MED RWY. AN EXA	CY EQUIPMENT WA	AS AVAIL. AT THE R	ABLE. FUEL IGHT		

File No 5029	6/26/84	ANCHORAGE, AK	A/C Reg. No. N47530	Time (Lc1) - 0924 ADT	
	AIRFRAME/COMPONENTAPPROACH	T/SYSTEM FAILURE/MA	LFUNCTION		
Finding(s) 1. LANDING GEAR,GEAR 2. GEAR EXTENSION	- · · · - · · · · - · · · · · · · · · ·				- -
Occurrence #2 Phase of Operation Finding(s) 3. WHEELS UP LANDING	LANDING - FLARE/TO	DUCHDOWN			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Brief of Incident

	NTIC DCEAN, AD		No. NB2NA		Time (Lc1) -		
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -PAN AMERICAN Type of Operation -NON SCHED,IN Flight Conducted Under -14 CFR 121 Incident Occurred During -CRUISE	WORLD AIRWAY	Aircraft Da NONE Fire NONE	mage Cre Pas Oth	s O	Injur Serious O O	ies Minor O 1	None 13 316 166
Aircraft Information Make/Model - MCDONNELL DOUGLAS DC-10 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 555000 No. of Seats - 345	0-30 Eng Make/N Number Eng Engine Typ Rated Powe	e - TURBOF			Installed/A Stall Warnin		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 030/015 KTS Visibility - UNK/NR Lowest Sky/Clouds - 2000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart NEW YORK, Destination ST. MAART ATC/Airspace ITERED Type of Fli Type of Cle Type Apch/L	NY EN ight Plan - If earance - IF	R	OFF A: Airport [UNKNOI Runway Runway Runway	WN y Ident - y Lth/Wid - y Surface -	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP,CFI SE LAND,ME LAND,SE SEA,ME SEA	Age - 40 Biennial Flight R Current Months Since Aircraft Type	Review - YES - UNK/NR	ical Certific Fli Total - Make/Model- Instrument- Multi-Eng -	ght Time (H UNK/NR UNK/NR UNK/NR	Hours) Last 24 Last 30 Last 90	Hrs - l Days- l	JNK/NR JNK/NR JNK/NR
Instrument Rating(s) - AIRPLANE -Narrative NEARLY COLLIDED WITH PAA N656PA AT FL370 NONRADAR ENVIRONMENT. BOTH ACFT WERE AT MI ARTCC. THE D72 CONTROLLER(CTLR) FAILED N HE APPROVED FL370 FOR N82NA, & PLACED FI ITIONALLY, D81 & R81 CTLRS FAILED TO DETECT OF WHEN HE FOUND IT. THE BOARD ALSO FOUND	THEIR ASSIGNED FLI TO COORDINATE THE T PROGRESS STRIP F CT CONFLICT BETWEEN	GHT LEVEL & W ALT OF N656PA FOR N82NA IN W I THE TWO ACFT	ERE OPERATING WITH THE D81 RONG BAY AT S THE R72 CTL	ON ROUTES CTLR, FAI ECTOR 72 PO R DID NOT	APPROVED & LED TO NOTE DSITION. CAREFULLY RE	ISSUED E	

PAGE - - 12-

File No. - 5008 1/01/84 ATLANTIC OCEAN, AO A/C Reg. No. N82NA Time (Lc1) - 1554 EST Occurrence #1 NEAR COLLISION BETWEEN AIRCRAFT Phase of Operation CRUISE - NORMAL Finding(s) 1. IFR SEPARATION STANDARDS - NOT MAINTAINED - ATC PERSONNEL(ARTCC) 2. CREW/GROUP COORDINATION - INADEQUATE - ATC PERSONNEL(ARTCC) Occurrence #2 ABRUPT MANEUVER Phase of Operation CRUISE - NORMAL ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

File No 5008 1/01/84 ATLA	NTIC OCEAN,AO A/	C Reg. No.	N656PA	Time (Lc1)	- 1554 ES	T
Type Operating Certificate-AIR CARRIER Name of Carrier -PAN AMERICA Type of Operation -SCHEDULED,I Flight Conducted Under -14 CFR 121 Incident Occurred During -CRUISE	- FLAG/DOMESTIC Airc N WORLD AIRWAY NON NTL,PAX/CARGO Fire NON	•	Fat Crew Pass	Inju al Serious O O O O		None 15 151 329
Aircraft Information Make/Model - BOEING 747-121 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 710000 No. of Seats - 495	Engine Type - Rated Power -	UNK/NR		ELT Installed/ Stall Warni	ng System	
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - WEATHER NOT PERTINEN Basic Weather - VMC Wind Dir/Speed- 030/015 KTS Visibility - UNK/NR Lowest Sky/Clouds - 2000 FT SCA Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Po LONDON, ENGLAND T Destination MIAMI,FL ATC/Airspace TTERED Type of Flight Pi	oint) an - IFR	Airp OF Airpo Ru Ru Ru	oort Proximity F AIRPORT/STRI ort Data unway Ident unway Lth/Wid unway Surface	P - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP SE LAND,ME LAND Instrument Rating(s) - AIRPLANE	Age - 53 Biennial Flight Review Current - YES Months Since - UNK Aircraft Type - UNK		l Certificate - \ Flight Tim tal - UNK/NR ke/Model- UNK/NR strument- UNK/NR	ne (Hours)		
Narrative ACFT NEARLY COLLIDED WITH PAA N82NA AT FL37C A NONRADAR ENVIRONMENT. BOTH ACFT WERE AT TH MIAMI ARTCC. THE D72 CONTROLLER(CTLR) FAILED WHEN HE APPROVED FL37O FOR N82NA, & PLACED F ADDITIONALLY, D81 & R81 CTLRS FAILED TO DETE STRIP WHEN HE FOUND IT. THE BOARD ALSO FOUND	EIR ASSIGNED FLIGHT LEVE TO COORDINATE THE ALT OF LT PROGRESS STRIP FOR N8: CT CONFLICT BETWEEN THE	AMI WHEN AC L & WERE OP F N656PA WI 2NA IN WRON TWO ACFT. T	FT PASSED ABOUT CERATING ON ROUTES TH THE DB1 CTLR, G BAY AT SECTOR THE R72 CTLR DID P	S APPROVED & IS FAILED TO NOTE 72 POSITION. NOT CAREFULLY F	SUED BY CONFLICT	

File No. - 5008 1/01/84 ATLANTIC OCEAN,AO A/C Reg. No. N656PA Time (Lc1) - 1554 EST

Occurrence NEAR COLLISION BETWEEN AIRCRAFT
Phase of Operation CRUISE - NORMAL

Finding(s)

1. IFR SEPARATION STANDARDS - NOT MAINTAINED - ATC PERSONNEL(ARTCC)

2. CREW/GROUP COORDINATION - INADEQUATE - ATC PERSONNEL(ARTCC)

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1,2

----Probable Cause----

Brief of Accident/Incident

File No 6010 1,	/10/84 LOS ANGE	LES,CA	A/C Reg. No.	XAAMF	Т	ime (Lc1) -	1316 PS	Т
-Basic Information								
Type Operating Certifica		LAG/DOMESTIC	Aircraft Damage	•		Injur		
Name of Carrier	-AEROMEXICO		NONE		Fatal	Serious	Minor	None
Type of Operation Flight Conducted Under	-SCHEDULED, INTL,	PASSENGER	Fire	Crew	0	0	2	4
			NONE	Pass	0	0	2	25
Acc/Inc Occurred During	-APPROACH							
-Aircraft Information						_		
• • • • • • • • • • • • • • • • • • • •	DOUGLAS DC-9-30	•	del - UNKNOWN UN	IKNOWN		Installed/Ad		
Landing Gear - TRICYCLE	-RETRACTABLE	Number Engli			S	tall Warning	g System	- YES
Max Gross Wt - 109000			- UNK/NR					
No. of Seats - 116		Rated Power	- UNK/NR					
-Environment/Operations Info	ormation							
Weather Data		Itinerary				Proximity		
Wx Briefing - UNK/NR		Last Departu			OFF AI	RPORT/STRIP		
Method - UNK/NR		MONTERREY,	MX					
Completeness - UNK/NR		Destination			Airport D			
Basic Weather - VMC		LOS ANGELES	S,CA		LOS AN			
Wind Dir/Speed- 260/00							24L	
Visibility - 7.0	=	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds -						Surface -		
Lowest Ceiling Obstructions to Vision	- NONE		rance - IFR	•	Runway	Status -	N/A	
		Type Apch/Lnd	dg - UNK/NR	.				
Precipitation Condition of Light	- NONE							
	- DATEIGHI							
-Personnel Information		11111 / Aum				_		
Pilot-In-Command Certificate(s)/Rating(s		e - UNK/NR ennial Flight Re		Certifica	te - UNK/N nt Time (H			
ATP	, 81			riigi al - Ul:		Last 24	Una - III	NIZ /NID
ME LAND		Months Since		.ai - Ui :e/Mode1- Ui		Last 24 Last 30		
ME LAND		Aircraft Type		strument- U		Last 90		
		All Clart Type		ti-Eng - U		Rotorcra		
	•		Mai	ti Liig Oi	417 1415	KO COT CIT		INIX/ INIX
Instrument Rating(s)	- AIRPLANE							
-Narrative								
AEROMEXICO DC-9 ENCOUNTERED	WAKE TURBULENCE F	ROM & TWA 1 - 1011	ON THE APPROACH	1 TO RWY 24	. THE AFR	OMEXICO ACE	Г	
6 MILES (1 MIN & 10 SEC) B								

Brief of Accident/Incident (Continued)

File No. - 6010 1/10/84 LOS ANGELES,CA A/C Reg. No. XAAMF Time (Lc1) - 1316 PST

Occurrence VORTEX TURBULENCE ENCOUNTERED
Phase of Operation APPROACH - IAF TO FAF/OUTER MARKER (IFR)

Finding(s)

1. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident is/are finding(s) 1

File No 5023 1/20/84 RED	DDING, CA	A/C Reg. No.	N35479	Time (Lo	:1) - 0643 PST	
Basic Information Type Operating Certificate-ON-DEMAND	AIR TAXI	Aircraft Damag	 e		Injuries	
Name of Carrier -AFS AIRLIN		MINOR	F	atal Serio	ous Minor	None
Type of Operation -NON SCHED	,DOMESTIC,PASSENGER	Fire	Crew	•	0	1
Flight Conducted Under -14 CFR 139 Incident Occurred During -TAXI	5	ON GROUND	Pass	0 (0	4
Aircraft Information						
Make/Model - PIPER PA-31-350	Eng Make/Mo	del - LYCOMING	TIO-540-J2BD		led/Activated	
Landing Gear - TRICYCLE-RETRACTABLE				Stall Wa	arning System	- YES
Max Gross Wt - 7800	Engine Type	- RECIP-FUE	L INJECTED			
No. of Seats - 10	Rated Power					
Environment/Operations Information						
Weather Data	Itinerary		Α.	irport Proxim	ity	
Wx Briefing - UNK/NR	Last Departu			ON AIRPORT		
Method - UNK/NR	SAME AS AC	C/INC				
Completeness - UNK/NR	Destination		1 i A	rport Data		
Basic Weather - VMC	ARCATA, CA			REDDING MUNIC		
Wind Dir/Speed- CALM				Runway Ident		
Visibility - 40.0 SM	ATC/Airspace			Runway Lth/W		
Lowest Sky/Clouds - CLEAR		ht Plan - IFR		Runway Surface		
Lowest Ceiling - NONE		ranc e - IFR		Runway Status	s - N/A	
Obstructions to Vision- NONE	Type Apch/Ln	dg - UNK/N	R			
Precipitation - NONE						
Condition of Light - DAWN						
Personnel Information						
Pilot-In-Command	Age - 34		1 Certificate		AL-NO WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Re			Time (Hours)		
COMMERCIAL, ATP		- YES To	tal - 460	00 La:	st 24 Hrs -	. 5
SE LAND, ME LAND	Months Since	- 4 Ma	ke/Model- 170	00 La:	st 30 Days- UN	IK/NR
	Aircraft Type		strument- UNK/ľ		st 90 Days- UN	
		Mu	lti-Eng - UNK/	NR Ro	torcraft - UN	IK/NR
Instrument Rating(s) - AIRPLANE						
Narrative						
HILE TAXIING TO TAKEOFF, SMOKE WAS NOTED WITCH. THE PLT IMMEDIATELY STOPPED & SECULANITROL HEATER, MODEL B4050, REVEALED THE AS CORRODED & A B-NUT WAS "FINGER TIGHT." LEATER. THE DIRECTOR OF MAINTENANCE SAID TO THE DIRECTOR OF	RED THE ACFT & ASSISTE AFT SECTION OF THE TU ALSO, THERE WAS FIRE	D THE PASSENGER BE ASSEMBLY HAD DAMAGE IN THE N	S IN DEPLANING CRACKED; THE OSE SECTION OF	. AN EXAM OF INNER TUBE AS THE ACFT, NE	THE SEMBLY AR THE	
	PAGE	18				

File No. - 5023 1/20/84 REDDING, CA A/C Reg. No. N35479 Time (Lc1) - 0643 PST

Occurrence

FIRE

Phase of Operation TAXI - TO TAKEOFF

Finding(s)

- 1. MAINTENANCE, INSPECTION OF AIRCRAFT INADEQUATE COMPANY MAINTENANCE PSNL
- 2. AIR COND/HEATING/PRESSURIZATION CORRODED
- 3. AIR COND/HEATING/PRESSURIZATION CRACKED
- 4. AIR COND/HEATING/PRESSURIZATION LOOSE
- 5. FLUID, FUEL LEAK
- 6. FUSELAGE FIRE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,3,4,5,6

Factor(s) relating to this incident is/are finding(s) 2

File No 5043 2/17/84 SANTA	ANA,CA	A/C Rég. 1	No. N2O3AA	Т	ime (Lc1) -	- 0846 PST	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -AMERICAN AIR Type of Operation -SCHEDULED,DOI Flight Conducted Under -14 CFR 121 Incident Occurred During -CLIMB	LINES, INC.	Aircraft Dai NONE Fire NONE	mage Crew Pass	-	Injur Serious O O		None 5 93
Aircraft Information Make/Model - MCDONNELL DOUGLAS DC-9-8 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 400000 No. of Seats - UNK/NR	32 Eng Make/Mod Number Engin Engine Type Rated Power	el - P&W JT es - 2 - TURBOF	BD-217		Installed/Æ tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - TELETYPE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 360/005 KTS Visibility - 40.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departur SANTA ANA,C Destination DALLAS,TX ATC/Airspace Type of Fligh Type of Clear Type Apch/Lnd	A t Plan - IFI ance - IFI g - FUI	₹	OFF AI Airport D JOHN W Runway Runway Runway Runway	MAYNE / Ident / Lth/Wid / Surface / Status	- 01L - 5700/	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP Instrument Rating(s) - AIRPLANE	Age - UNK/NR Biennial Flight Rev Current - Months Since - Aircraft Type -	Med iew UNK/NR UNK/NR	ical Certifica	ate - UNK/N yht Time (H NNK/NR NNK/NR NNK/NR	IR Hours) Last 24 Last 30 Last 90	4 Hrs - UN) Days- UN) Days- UN raft - UN	K/NR K/NR
SHORTLY AFTER TAKEOFF A TTL PWR LOSS WAS EXPENSUBSTANTIAL DAMAGE OCCURRED IN THE COMPRESSOR FORCED COMPLETELY OUT OF THEIR DISK DOVETAIL HAD FRACTURED JUST ABOVE THE PLATFORM. THE 18 METALLURGICAL EXAMINATION OF THE 18TH BLADE DITHROUGH THE ROOT OF THR BLADE PROGRESSING IN I	SECTION FROM STAGE SLOTS. OF THE 18 REM IH BLADE WAS FRACTUR ISCLOSED THE BLADE S HIGH CYCLE FATIGUE F	6 REARWARD. AINING BLAD ED THROUGH USTAINED A I ROM THE ORIG	40 STAGE 8 CC ES, 17 WERE MI THE ROOT AREA DIAGONAL AND T	OMPRESSOR B SSSING THEI JUST BELOW RANSVERSE EDGE OF TH	SLADES WERE R AIRFOILS THE PLATFO FRACTURE BE DISK.	WHICH .	
	PAGE2	O					

File No. - 5043 2/17/84 SANTA ANA,CA A/C Reg. No. N203AA Time (Lc1) - 0846 PST

Occurrence LOSS OF POWER(TOTAL) - MECH FAILURE/MALFUNCTION
Phase of Operation CLIMB - TO CRUISE

Finding(s)
1. COMPRESSOR ASSEMBLY,BLADE - FATIGUE
2. COMPRESSOR ASSEMBLY,BLADE - SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 1,2$

Type Operating Certificate-NONE (GENERA	A AVIATION) Aircrat	t Damage		Injur	iles	
Type operating our trifleate home (denem	MINOR		Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire			0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Incident Occurred During -STANDING		Other	0	0	0	1
Aircraft Information						
Make/Model - CESSNA 150F		NTINENTAL 0-200-A		nstalled/#		
Landing Gear - TRICYCLE-FIXED	Number Engines -			all Warnir	ng Syste	m - YES
Max Gross Wt - 1600		CIPROCATING-CARBURE	TOR			
No. of Seats - 2	Rated Power -	100 HP			. 	
Environment/Operations Information						N
Weather Data	Itinerary		Airport P			
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Poin	:	ON AIRP	ORT		
Completeness - N/A	Destination		Airport Da			
Basic Weather - VMC	SAME AS ACC/INC			DE MUNI		
Wind Dir/Speed- 080/005 KTS	470/41		•		- 09	
Visibility - 25.0 SM	710/71 Space	NONE		Lth/Wid		
Lowest Sky/Clouds - 20000 FT THIN Lowest Ceiling - NONE	Type of Clearance	- NUNE		Surface Status		. '
Obstructions to Visjon- NONE	Type of Crearance Type Apch/Lndg		Runway	Status	DRT	
Precipitation - NONE	Type Apcil/Liliag	- TRAFFIC PATTERIN				
Condition of Light - NIGHT(DARK)						
Personnel Information						
Pilot-In-Command	Age - 40	Medical Certificat	e - VALID	MEDICAL-NO	WAIVER	RS/LIMIT
Certificate(s)/Rating(s)	Age - 40 Biennial Flight Review	Fligh	t Time (Ho	urs)		
PRIVATE	Current - UNK/NI	R Total -	91	Last 24	4 Hrs -	UNK/NR
SE LAND	Months Since - UNK/N	R Make/Mode1-	42	Last 30	Days-	UNK/NR
	Aircraft Type - UNK/N	R Instrument-	0	Last 90	Days-	13
Instrument Rating(s) - NONE						
 Narrative						

File No. - 5035 2/20/84 RIVERSIDE, CA A/C Reg. No. N7831F Time (Lc1) - 1821 PST

Occurrence ON GROUND COLLISION WITH OBJECT Phase of Operation STANDING - ENGINE(S) OPERATING

Finding(s)
1. WRONG RUNWAY - SELECTED - PILOT OF OTHER AIRCRAFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5035 2/20/84	RIVERSIDE, CA	A/C Reg. No. N6496	! 	Time (Lc1)	- 1821 PST	
Basic Information Type Operating Certificate-NONE		Aircraft Damage		Inju		ė.
T C. O		MINOR	Fatal	-		None
Type of Operation -PERSO		ire	Crew 0	0	0	1
Flight Conducted Under -14 CF Incident Occurred During -TAKEO		NONE	Pass 0	0	0	0
The ident occurred buring -Takeo	rr 		Other O	0	0	1
Aircraft Information					•	
Make/Model - CESSNA 152		el - LYCOMING 0-235-l		Installed/		
Landing Gear - TRICYCLE-FIXED	Number Engine			Stall Warni	ng System	- YES
Max Gross Wt - 1670		- RECIPROCATING-CA	RBURETOR			
No. of Seats - 2	Rated Power	- 110 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - PATWAS	Last Departure	e Point		RPORT		
Method - UNK/NR	RIVERSIDE, CA					
Completeness - UNK/NR	Destination	•	Airport	Data		
Basic Weather - VMC	LANCASTER.CA	1		SIDE MUNI		
Wind Dir/Speed- 080/005 KTS	EANOASTER, OF	•		y Ident	- UNK/NR	
Visibility - 25.0 SM	ATC/Airspace			y Lth/Wid		
•	FT THIN BKN Type of Flight	Plan - NONE		y Surface		
Lowest Ceiling - NONE	Type of Cleara			v Status		
Obstructions to Vision- NONE	Type Apch/Lndo		Kuliwa	y Status	DKI	
Precipitation - NONE	Type Apcily Linds	3 - 14014E				
Condition of Light - NIGHT(DARK)					
Personnel Information Pilot-In-Command	Age - 27	Medical Cert	ficate - VALI	D MEDICAL -N	N WATVERS/	ITMIT
Certificate(s)/Rating(s)	Biennial Flight Rev		Flight Time (0 WAIVERS/	
PRIVATE	•	V=0 +	- 119	last 2	4 Hrs - 11N	IK/NP
SE LAND	Current - Months Since -	7 Make/Mode	- 119 e1- 109	last 2	O Dave-	6
JE ERIO	Aircraft Type -	C-152 Instrumer	1 103	last 9	O Days	14
	All Clart Type	C 132 Tristi direi		Last	o bays	14
Instrument Rating(s) - NONE						
·Narrative						
	NA 1505 N70215 DUDING THE	TAKEDEE DOLL AT DIVE	DOTTE MILAT AD	DT NEADEN	MAC	
SNA 152, N6496M, COLLIDED WITH CESS JED A CLEARANCE FOR TAKEOFF FROM RW						
OFF.	1 09 DOL TAYTED ONIO TAXTAL	AT A WILL THIERSE	12 INVINAL "F	, AND EXEC	טובט וחב	

File No. - 5035 2/20/84

RIVERSIDE, CA

A/C Reg. No. N6496M

Time (Lc1) - 1821 PST

ON GROUND COLLISION WITH OBJECT

Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

- 1. LIGHT CONDITION DARK NIGHT
- 2. WRONG RUNWAY SELECTED PILOT IN COMMAND
- 3. LANDING LIGHTS NOT USED PILOT IN COMMAND
- IMPROPER USE OF PROCEDURE, VISUAL/AURAL PERCEPTION PILOT IN COMMAND
- 5. OBJECT AIRCRAFT PARKED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2

Factor(s) relating to this incident is/are finding(s) 1,4,5

File No 5052 5/11/84 LOS	ANGELES, CA	A/C Reg. N	o. FBPVS	Ti	me (Lc1) -	2156 PDT	
Type of Operation	INTL,PAX/CARGO	Aircraft Dam MINOR Fire IN FLIGHT	Crew	Fata1 0 0	Injur Serious O O		None 1 O
Incident Occurred During -TAKEOFF							
Aircraft Information Make/Model - BOEING 747 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 733000 No. of Seats - 396	Eng Make/N Number Eng Engine Typ	dodel - GE CF6- gines - 4 de - TURBOFA er - 47000	50 N		nstalled/A		
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - UNK/NR Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- UNK/NR Precipitation - UNK/NR Condition of Light - NIGHT(DARK)	Type of Cle Type Apch/L	CC/INC	A	Runway Runway Runway	ORT ta ELES INTL	UNK/NR	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE	Biennial Flight R	Review - YES - UNK/NR - UNK/NR	cal Certificate Flight Total - UNK Make/Model- UNK Instrument- UNK Multi-Eng - UNK	Time (Ho /NR /NR /NR	ours) Last 24 Last 30 Last 90	Hrs - UN Days- UN Days- UN aft - UN	K/NR K/NR
DURING ROTATION THE #2 ENG SUSTAINED AN EXP DROP IN THE #2 ENG PERFORMANCE PARAMETERS & LITES. THE CREW DISCHARGED A FIRE BOTTLE. A WITHOUT FURTHER INCIDENT. THE ENG DAMAGE WA HAD FRACTURED AS A RESULT OF A HIGH-STRESS(IGNITOR PAD AREA OF THE CRF OUTER CASING. T	THE ILLUMINATION OF FTER THE ENG WAS SHU S PRIMARILY CONFINED LOW-CYCLE) FATIGUE.	F THE #2 ENG TH JT DOWN & THE F) TO AN AXIALLY THE FATIGUE OF	RUST REVERSERS UEL DUMPED, THE RUPTURED OUTER IGINATED AT A Z	"UNLOCK A CREW LAN CASING O	AND IN TRAN IDED THE AC OF THE CRF.	SIT" FT THE CRF	
	PAGE-	26					

File No. - 5052 5/11/84 LOS ANGELES,CA A/C Reg. No. FBPVS Time (Lc1) - 2156 PDT

Occurrence #1 EXPLOSION
Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. COMPRESSOR ASSEMBLY,CASTING - FATIGUE
2. COMPRESSOR ASSEMBLY,CASTING - EXPLODED

Occurrence #2 LOSS OF POWER(PARTIAL) - MECH FAILURE/MALF
Phase of Operation TAKEOFF - INITIAL CLIMB

Occurrence #3 FORCED LANDING
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)
3. FUEL DUMPED - INTENTIONAL - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

-Basic Information Type Operating Certificate-AIR CARRIER - FLAG/DOMESTIC Aircraft Damage Nome of Careforn - UNITED AIRLINES, INC. NONE OPERATION - CARRIER - FLAG/DOMESTIC, PAR/CARGO Fire Crew 0 0 0 12 Fight Conducted Under - CARRIER - FLAG/DOMESTIC, PAR/CARGO Fire Crew 0 0 0 12 Incident Occurred During - TAKEOFF NONE Pass 0 0 0 0 200 -	File No 5100 6/1	10/84 LOS ANGE	LES,CA	A/C Reg	. No. N1806U		Time (Lc1) -	1402 PDT	
Name of Carrier	Basic Information Type Operating Certificate	e-AIR CARRIER - F	LAG/DOMESTIC	Aircraft	 Damage		Iniur	ies	
Flight Conducted Under	Name of Carrier	-UNITED AIRLINES	, INC.			Fata1			None
Incident Occurred During -TAKEOFF Aircraft Information Make/Model - MCDONNELL DOUGLAS DC-10-10	Type of Operation	-SCHEDULED, DOMES	TIC,PAX/CARGO		-		_	-	
Aircraft Information Make/Model - MCDDNNELL DOUGLAS DC-10-10				NONE	F	ass 0	0	0	200
Make/Model - MCDONNELL DOUGLAS DC-10-10 Eng Make/Model - GE CF6-6D	Incident Occurred During	-TAKEOFF							
Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 440000 No. of Seats - 264 Rated Power - 40000 LBS THRUST Titinerary Westner Data Wx Briefing - COMPANY Method - UNK/NR Basic Weather - WC Wind Dir/Speed- 270/007 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Districtions to Vision- NONE Precipitation - NONE Districtions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Certificate(s)/Rating(s) ATP SE LAND, ME LAND Age - 58 Biennial Flight Review Months Since - UNK/NR Months Since - UNK/NR Months Since - UNK/NR Minterent - VALID MEDICAL-WAIVERS/LIMIT Minterent - UNK/NR Minterent - VALID Medical -									
Max Gross Wt - 440000 No. of Seats - 264 Rated Power - 40000 LBS THRUST Environment/Operations Information Weather Data Weather Data UNK/NR Wethod - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed - 270/007 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Cobstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND,ME LAND ATP SE LAND,ME LAND Instrument Rating(s) - AIRPLANE Narrative ECREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5					F6-6D	EL			
No. of Seats - 264 Rated Power - 40000 LBS THRUST Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 270/007 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Completeness - NONE Precipitation - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND, ME LAND AGP - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Current - UNK/NR Months Since - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR Aircraft Type - UNK/NR Make/Model - 800 Last 24 Hrs - UNK/NR Make/Model - 800 Last 24 Hrs - UNK/NR Minstrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING, AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5	<u> </u>	RETRACTABLE			0544		Stall Warnir	ng Syst em	- YES
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 270/007 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Constructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP									
Weather Data Wx Briefing - COMPANY Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 270/007 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Completeness - Work University - Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Completeness - Work Condition of Light - DAYLIGHT Personnel Information - NONE Condition of Light - DAYLIGHT Personnel Information - Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND, ME LAND AITPORT PROXImity ON AIRPDRT Itinerary Last Departure Point UDS ANGELES, CA Airport Data Airport Data Airport Data LOS ANGELES INT'L Runway Ident - 25 Runway Lth/Wid - 1209/ 150 Runway Surface - COMCRETE Runway Surface - COMCRETE Runway Status - DRY Type of Clearance - IFR Runway Status - DRY Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP Current - UNK/NR SE LAND, ME LAND Aircraft Type - UNK/NR Aircraft Type - UNK/NR Aircraft Type - UNK/NR Aircraft Type - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Multi-Eng - UNK/NR Multi-Eng - UNK/NR PREVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5	NO. Of Seats - 264		Rated Powe	r - 400					
Wx Briefing - COMPANY Method - UNK/NR LOS ANGELES,CA Completeness - UNK/NR Destination Airport Data Basic Weather - VMC WASHINGTON,DC LOS ANGELES INT'L Runway Ident - 25 Visibility - 10.0 SM ATC/Airspace Runway Lth/Wid - 1209/ 150 Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Surface - CONCRETE Lowest Celling - NONE Type of Clearance - IFR Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - UNK/NR Total - 21000 Last 24 Hrs - UNK/NR Aircraft Type - UNK/NR Make/Model- 800 Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Rotorcraft - UNK/NR Nulti-Eng - UNK/NR Rotorcraft -	- ·	mation							
Method - UNK/NR									
Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 270/007 KTS Visibility - 10.0 SM ATC/Airspace Lowest Sky/Clouds - CLEAR Obstructions to Vision- NONE Precipitation Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND, ME LAND ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLANE Destination WASHINGTON, DC Runway Status - DRY Runway Status - DRY Runway Status - DRY NONE Wedical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Flight Time (Hours) Flight Time (Hours) ATP SE LAND, ME LAND Months Since - UNK/NR Aircraft Type - UNK/NR Months Since - UNK/NR Minstrument - UNK/NR Multi-Eng - UNK/NR FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5						UN A	IRPORT		
Basic Weather - VMC WASHINGTON,DC LOS ANGELES INT'L Wind Dir/Speed- 270/007 KTS Runway Ident - 25 Visibility - 10.0 SM ATC/Airspace Runway Lth/Wid - 1209/ 150 Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Surface - CONCRETE Lowest Ceiling - NONE Type of Clearance - IFR Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - UNK/NR Total - 21000 Last 24 Hrs - UNK/NR SE LAND,ME LAND Months Since - UNK/NR Make/Model - 800 Last 30 Days - UNK/NR Aircraft Type - UNK/NR Instrument UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5				ES,CA		Ainnont	Data		
Wind Dir/Speed- 270/007 KTS Visibility - 10.0 SM ATC/Airspace Runway Ident - 25 Visibility - 10.0 SM ATC/Airspace Runway Lth/Wid - 1209/ 150 Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Status - DRY Obstructions to Vision- NONE Type of Clearance - IFR Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Current - UNK/NR Total - 21000 Last 24 Hrs - UNK/NR ATP Current - UNK/NR Make/Model- 800 Last 30 Days- UNK/NR Months Since - UNK/NR Make/Model- 800 Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5	•			N DC		•			
Visibility - 10.0 SM ATC/Airspace Runway Lth/Wid - 1209/ 150 Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Surface - CONCRETE Lowest Ceiling - NONE Type of Clearance - IFR Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - UNK/NR Total - 21000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model - 800 Last 30 Days- UNK/NR Aircraft Type - UNK/NR Make/Model - 800 Last 30 Days- UNK/NR Months Since - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5		KTS	WASIIINGIO	1,00					
Lowest Ský/Clouds - CLEAR Type of Flight Plan - IFR Runway Surface - CONCRÈTE Lowest Ceiling - NONE Type of Clearance - IFR Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - UNK/NR Total - 21000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model- 800 Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Last 90 Days- UNK/NR Months Since - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5			ATC/Airspace						150
Lowest Ceiling - NONE Type of Clearance - IFR Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - UNK/NR Total - 21000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model- 800 Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5	Lowest Sky/Clouds -	CLEAR	Type of Fli	ght Plan -	IFR				
Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - UNK/NR Total - 21000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model - 800 Last 30 Days - UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Last 90 Days - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5	Lowest Ceiling -	NONE							
Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - UNK/NR Total - 21000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model - 800 Last 30 Days - UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Last 90 Days - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5			Type Apch/L	ndg -	NONE				
Personnel Information Pilot-In-Command Age - 58 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - UNK/NR Total - 21000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model - 800 Last 30 Days - UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Last 90 Days - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5									
Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLANE CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5	Condition of Light -	DAYLIGHT							
Certificate(s)/Rating(s) ATP Current - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Aircraft Type - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5									
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Aircraft Type - UNK/NR Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5									
Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5	SE CAND, ME CAND					- IINK/ND	last 30	Days- UN	K/ND
Instrument Rating(s) - AIRPLANENarrative E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5			All Clair Type	Oldky lak		- UNK/NR	Rotorce	aft - UN	K/NR
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E CREW WERE UNABLE TO RETRACT THE RIGHT WING SPOILERS AFTER TAKEOFF & RETURNED TO THE DEPARTURE ARPT FOR AN EVENTFUL LANDING. AN INSPECTION REVEALED RUST & DEBRIS IN THE AREA OF THE BELLCRANK WHICH PREVENTED THE #1, #4 & #5	Instrument Rating(s)	- AIRPLANE							
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								4 & #5	

File No. - 5100 6/10/84 LOS ANGELES,CA A/C Reg. No. N1806U Time (Lc1) - 1402 PDT

Occurrence
Phase of Operation

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. FLT CONTROL SYST, WING SPOILER SYSTEM - FOREIGN OBJECT

2. FLT CONTROL SYST, WING SPOILER SYSTEM - CORRODED

3. FLT CONTROL SYST, WING SPOILER SYSTEM - MOVEMENT RESTRICTED

4. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,3

Factor(s) relating to this incident is/are finding(s) 4

Type of Operation -SCHEDULED,DOMESTIC,PASSENGER Fire Crew 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Type Operating Certificate-AIR CARRIER - FLAG/DOMESTIC Aircraft Damage (Arrier) Name of Carrier - LONITED AIRLINES MINOR Fatal Serious Minor Non Type of Operation - SCHEDULED, DOMESTIC, PASSENGER Fire Crew 0 0 0 0 3 Incident Occurred During - APPROACH Aircraft Information Make/Model - BOEING 747-122	File No 5119	6/11/84 SA	N FRANCISCO, CA	A/C Reg	. No. N4712U	1	ime (Lc1) -	- 2130 PD	Т
Name of Carrier	Name of Carrier	Basic Information								
Name of Carrier	Name of Carrier	Type Operating Certific	ate-AIR CARRI	ER - FLAG/DOMESTIC	Aircraft	Damage		Injur	ries	
Type of Operation	Type of Operation	Name of Carrier	-UNITED AI	RLINES			Fatal	•		None
Incident Occurred During -APPROACH Aircraft Information	Incident Occurred During -APPROACH Aircraft Information	Type of Operation	-SCHEDULED	.DOMESTIC.PASSENGER		Cr				3
Incident Occurred During -APPROACH Aircraft Information	Incident Occurred During -APPROACH Aircraft Information	Flight Conducted Under	-14 CFR 12	1				_	_	1
Make/Model - BDEING 747-122 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 775000 No. of Seats - 429	Make/Model - BOEING 747-122 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 775000 No. of Seats - 429						•	•	•	·
Make/Model - BOEING 747-122 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 775000 No. of Seats - 429 Engine Type - TURBOFAN Rated Power - UNK/NR Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UIX/NR Basic Weather - VMC Wind Dir/Speed - 280/025 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Distructions to Vision- NoNE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Months Since - 198 UT9D-3 ELT Installed/Activated - YES, Stall Warning System - YES Stall Warning System - UNK/NR Sall Warning System - VES Stall Warning System - VES St	Make/Model - BOEING 747-122 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 775000 No. of Seats - 429	Aircraft Information								
Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 775000 No. of Seats - 429 No. of Seats - 429 Nated Power - UNK/NR Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - U.X./NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed - 280/025 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision - NONE Condition of Light - DUSK Personnel Information - NONE Condition of Light - DUSK ATP ME LAND Me LAND Me LAND Number Engines - 4 Stall Warning System - YES Engine Type - TURBOFAN Rated Power - UNK/NR Itinerary Last Departure Point OFF AIRPORT/STRIP OFF AIR	Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 775000 No. of Seats - 429 No. of Seats - 100K/NR No. of Seats - 100K	and the second s	747-122	Eng Make/	Model - P&W	JT9D-3	FIT	Installed/A	ctivated	- YES/NO
Max Gross Wt - 775000 No. of Seats - 429 No. of Seats - 410 No. of No	Max Gross Wt - 775000 No. of Seats - 429 Rated Power - UNK/NR Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - Ut.:/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed - 280/025 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Method - Ut.:/NR Last Departure Point OFF AIRPORT/STRIP HONOLULU,HI Destination SAN FRANCISCO,CA Runway Ident - N/A Runway Ident - N/A Runway Surface - N/A Runway Surface - N/A Type of Clearance - IFR Runway Status - N/A Type of Clearance - IFR Runway Status - N/A Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Biennial Flight Review Flight Time (Hours) Current - YES Total - 31140 Last 24 Hrs - UNK/NR Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days- UNK/NR Mitti-Eng - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR	•				0.00				
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Method - Uii/NR Completeness - UNK/NR Destination Airport Data Basic Weather - VMC SAN FRANCISCO,CA Wind Dir/Speed- 280/025 KTS Visibility - 15.0 SM ATC/Airspace Runway Ident - N/A Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - IFR Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - FULL STOP Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Agr - 59 Total - 31140 Last 24 Hrs - UNK/NR ME LAND Medical Certificate - UNK/NR Make/Model - UNK/NR Last 30 Days - UNK/NR Aircraft Type - UNK/NR Make/Model - UNK/NR Last 90 Days - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR	Method - Utic/NR Completeness - UNK/NR Destination Airport Data Basic Weather - VMC SAN FRANCISCO,CA Wind Dir/Speed- 280/025 KTS Visibility - 15.0 SM ATC/Airspace Runway Ident - N/A Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - IFR Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - FULL STOP Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Age - 59 Total - 31140 Last 24 Hrs - UNK/NR Months Since - UNK/NR Make/Model- UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR		5		ture Point				•	
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Visibility - 15.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - IFR Runway Status - N/A Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR	Visibility - 15.0 SM		פה עדכ	JAN FRAN	CISCO, CA		Bunkas	. Idont .	- NI/A	
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Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND ME LAND ME LAND Type of Clearance - IFR Runway Status - N/A Type Apch/Lndg - FULL STOP Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Flight Time (Hours) Current - YES Total - 31140 Last 24 Hrs - UNK/NR Make/Model- UNK/NR Aircraft Type - UNK/NR Make/Model- UNK/NR Instrument- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR	Lowest Ceiling - NONE Type of Clearance - IFR Runway Status - N/A Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND ME LAND ME LAND ME LAND Months Since - UNK/NR Aircraft Type - UNK/NR Multi-Eng - UNK/NR Runway Status - N/A Type of Clearance - IFR Runway Status - N/A Runway Status - N/A Runway Status - N/A Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Flight Time (Hours) Current - YES Total - 31140 Last 24 Hrs - UNK/NR Make/Model - UNK/NR Last 30 Days - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR					TED				
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command	Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR ME LAND Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days - UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR									
Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR ME LAND Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days - UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR	Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR ME LAND Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days - UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR						Runway	Status .	N/A	
Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR ME LAND Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR	Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR ME LAND Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR			Type Apcn/	Lnag -	FULL STUP				
Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR ME LAND Months Since - UNK/NR Make/Model- UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument- UNK/NR Rotorcraft - UNK/NR	Personnel Information Pilot-In-Command Age - 59 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR ME LAND Months Since - UNK/NR Make/Model- UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument- UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR									
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ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR ME LAND Months Since - UNK/NR Make/Model- UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR	ATP Current - YES Total - 31140 Last 24 Hrs - UNK/NR ME LAND Months Since - UNK/NR Make/Model- UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR		e)						11 4 L N 3 / L 1	
ME LAND Months Since - UNK/NR Make/Model- UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR	ME LAND Months Since - UNK/NR Make/Model- UNK/NR Last 30 Days- UNK/NR Aircraft Type - UNK/NR Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR		<i>3</i>						1 Hnc - III	NIK /NID
Multi-Eng - UNK/NR Rotorcraft - UNK/NR	Multi-Eng - UNK/NR Rotorcraft - UNK/NR					Moke/Medel-	LINIZ/AID	Last 2	A Dave- III	NIC/NIC
Multi-Eng - UNK/NR Rotorcraft - UNK/NR	Multi-Eng - UNK/NR Rotorcraft - UNK/NR	ME CAND				Tantaumont	UNK/NK	Last 30	Days- U	NK/IVK
Instrument Rating(s) - AIRPLANE	Instrument Rating(s) - AIRPLANE			All Craft Type	e - UNK/NK					
That dilett kathig(a) AIR LAND	That differe Rating(3) ATRICANC	Instrument Pating(s) - ATDDIANE							
		This i direct kat mg(s								
	USI INSIDE IHE UUTEK MAKKEK. A "LUUD BANG" WAS HEARD & LEFT AILEKUN INPUT WAS NEEDED TO CONTROL ACTT HEADING. THE									
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NDING WAS MADE WITHOUT INCIDENT UNTIL THE FLAPS WERE RAISED WHILE TAXIING & THE FLT ENGINEER REPORTED A #4 HYDRAULIC STEM FAILURE. THE CAPT LOST BRAKES AND HAD TO UTILIZE STANDBY BRAKES. AT THIS TIME A SPLIT FLAP INDICATION WAS	NDING WAS MADE WITHOUT INCIDENT UNTIL THE FLAPS WERE RAISED WHILE TAXIING & THE FLT ENGINEER REPORTED A #4 HYDRAULIC Stem Failure. The capt lost brakes and had to utilize standby brakes. At this time a split flap indication was									•
NDING WAS MADE WITHOUT INCIDENT UNTIL THE FLAPS WERE RAISED WHILE TAXIING & THE FLT ENGINEER REPORTED A #4 HYDRAULIC STEM FAILURE. THE CAPT LOST BRAKES AND HAD TO UTILIZE STANDBY BRAKES. AT THIS TIME A SPLIT FLAP INDICATION WAS SERVED. INSPECTION REVEALED FLAP TRACK FRACTURED APRX 6 INCHES AFT OF THE FORWARD ATTACH POINT. THE FRACTURE INITIATED	NDING WAS MADE WITHOUT INCIDENT UNTIL THE FLAPS WERE RAISED WHILE TAXIING & THE FLT ENGINEER REPORTED A #4 HYDRAULIC STEM FAILURE. THE CAPT LOST BRAKES AND HAD TO UTILIZE STANDBY BRAKES. AT THIS TIME A SPLIT FLAP INDICATION WAS SERVED. INSPECTION REVEALED FLAP TRACK FRACTURED APRX 6 INCHES AFT OF THE FORWARD ATTACH POINT. THE FRACTURE INITIATED									
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NDING WAS MADE WITHOUT INCIDENT UNTIL THE FLAPS WERE RAISED WHILE TAXIING & THE FLT ENGINEER REPORTED A #4 HYDRAULIC STEM FAILURE. THE CAPT LOST BRAKES AND HAD TO UTILIZE STANDBY BRAKES. AT THIS TIME A SPLIT FLAP INDICATION WAS SERVED. INSPECTION REVEALED FLAP TRACK FRACTURED APRX 6 INCHES AFT OF THE FORWARD ATTACH POINT. THE FRACTURE INITIATED OUTBOARD FLANGE #1 BOLTHOLE WALL BECAUSE OF PITTING CORROSION. A PORTION OF THE FORE FLAP & A SMALL WING PANEL PARATED FROM THE ACFT. DURING FLAP RETRACTION AFTER LANDING, THE TRANSMISSION BALL NUT JAMMED. THE DRIVE TORQUE BE FRACTURED AT THIS TIME AND THE BROKEN END OF THE ROTATING TORQUE TUBE DAMAGED HYDRAULIC LINES, CAUSING A	NDING WAS MADE WITHOUT INCIDENT UNTIL THE FLAPS WERE RAISED WHILE TAXIING & THE FLT ENGINEER REPORTED A #4 HYDRAULIC STEM FAILURE. THE CAPT LOST BRAKES AND HAD TO UTILIZE STANDBY BRAKES. AT THIS TIME A SPLIT FLAP INDICATION WAS SERVED. INSPECTION REVEALED FLAP TRACK FRACTURED APRX 6 INCHES AFT OF THE FORWARD ATTACH POINT. THE FRACTURE INITIATED OUTBOARD FLANGE #1 BOLTHOLE WALL BECAUSE OF PITTING CORROSION. A PORTION OF THE FORE FLAP & A SMALL WING PANEL PARATED FROM THE ACFT. DURING FLAP RETRACTION AFTER LANDING, THE TRANSMISSION BALL NUT JAMMED. THE DRIVE TORQUE BE FRACTURED AT THIS TIME AND THE BROKEN END OF THE ROTATING TORQUE TUBE DAMAGED HYDRAULIC LINES, CAUSING A				DV DOETNO AC	TED THIS INCL	SENT & HAITTEE	ATDITMES		
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File No. - 5119 6/11/84 SAN FRANCISCO, CA A/C Reg. No. N4712U Time (Lc1) - 2130 PDT

Occurrence Phase of Operation AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

APPROACH

Finding(s)

1. FLIGHT CONTROL, FLAP ATTACHMENT - CORRODED

- 2. FLIGHT CONTROL, FLAP ATTACHMENT FATIGUE
- 3. HYDRAULIC SYSTEM, LINE LEAK
- 4. LANDING GEAR, NORMAL BRAKE SYSTEM INOPERATIVE

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

-Basic Information	- 410 CARRIER	FLAC/DOMESTAC	41	D			7 m 4 s s m .		
Type Operating Certificate Name of Carrier	-PAN AMERICAN	WORLD AIRWAY	Aircraft SUBSTAN			Fatal	Injur Serious		None
Name of Carrier Type of Operation	-SCHEDULED, DOM	MESTIC, PAX/CARGO	Fire		Crew	0			12
Flight Conducted Under	-14 CFR 121		NONE		Pass	0	0	0	145
Incident Occurred During									
-Aircraft Information									· /*
Make/Model - LOCKHEED Landing Gear - TRICYCLE-	L-1011-385-3	Eng Make/N Number End		LS ROYCE RB	211		installe d/ Ad tall Warning		
Max Gross Wt - 450000	RETRACTABLE	Number Eng	Jines - 3	BOFAN		51	alı warnınç	g System ·	- 1E2
No. of Seats - 249		Rated Powe	er - 50	OOO LBS THRU	ST				
-Environment/Operations Info	rmation								
Weather Data	•	Itinerary				Airport F	Proximity		
Wx Briefing - COMPANY		Last Depart	ure Poi n t			OFF AIR	RPORT/STRIP		
Method - IN PERS		LOS ANGEL	.ES,CA						
Completeness - WEATHER	NOT PERTINENT					Airport Da			
Basic Weather - VMC	NTC	MIAMI,FL					GELES INT'L		
Wind Dir/Speed- 230/014 Visibility - 10.0		ATC/Airspace				•	Ident - Lth/Wid -		150
Lowest Sky/Clouds -				TED			Surface -		130
Lowest Ceiling -		Type of Cle					Status -		
Obstructions to Vision-	NONE			ILS-COMPLET	E	,			
Precipitation -				STRAIGHT-IN					
Condition of Light -	DAYLIGHT			FULL STOP					
-Personnel Information									
Pilot-In-Command		Age - 50		Medical Cert				IVERS/LIM	IΤ
Certificate(s)/Rating(s)		Biennial Flight F	eview - vec	Total		nt Time (Ho		Une -	4
		Months Since	- 1	Make/Mod	e1-	2483	Last 24	Dave- UN	K/NR
SE CAND, ME CAND		Aircraft Type	- 1-1011	Instrume	nt-UN	JK/NR	Last 90	Days UN	K/NR
			2 1011	Multi-En	ig - UN	IK/NR	Rotorcr	aft - UN	K/NR
Instrument Rating(s)	- AIRPLANE								
COMMERCIAL,ATP SE LAND,ME LAND Instrument Rating(s)	- AIRPLANE	Current Months Since Aircraft Type	- YES - 1 - L-1011	Total Make/Mod Instrume Multi-En	- 1 lel- ent- UN lg - UN	15783 2483 JK/NR JK/NR	Last 24 Last 30 Last 90 Rotorcr	Hrs - Days- UN Days- UN aft - UN	K/I K/I

File No 5108	6/11/84	LOS ANGELES,CA	A/C Reg. No. N501PA	Time (Lc1) - 1403 PDT	
	FRAME/COMPONE	NT/SYSTEM FAILURE/MALFU	UNCTION		
Finding(s) 1. LANDING GEAR,NORMAL	RETRACTION/EX	TENSION ASSEMBLY - FA	ILURE, TOTAL		
Probable Cause		,			

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft Da	mage		Injur	ies	
		MINOR	-	Fatal		Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91		Fire	Crew		0	0	1
Incident Occurred During -LANDING		NONE	Pass	0	0	0	4
ircraft Information Make/Model - PIPER PA-32-300	Fna Naka/1	Andal IVCOMT	NC 10 E40	ELT:	[matallad/A		- VEC/A
Landing Gear - TRICYCLE-FIXED		moder - Litcomi gines - 1	NG 10-540		[nstalled/A tall Warnin		
Max Gross Wt - 3400			FUEL INJECTED	3	Latt Wallill	g system	- 163
No. of Seats - 6		er - 300					
nvironment/Operations Information leather Data	Itinerary			Ainmont I	Proximity		
Wx Briefing - NO RECORD OF BRIEFI		ture Point		ON AIR			
Method - N/A	COALINGA			011 7211	J		
Completeness - N/A	Destination	, •		Airport Da	ata		
Basic Weather - VMC	SAME AS A	ACC/INC		CHOWCH	ILLA		
Wind Dir/Speed- 300/005 KTS				Runway	Ident -	30	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid -		60
Lowest Sky/Clouds - 4000 FT SC	ATTERED Type of F1	ight Plan - N C	NE		Surface -		
Lowest Ceiling - NONE	Type of Cle Type Apch/L	earance - NC	NE	Runway	Status -	DRY	
	Type Apch/I	_ndg - S1	RAIGHT-IN				
Precipitation - NONE Condition of Light - NIGHT(DARK)							
ersonnel Information Pilot-In-Command	Ago = 62	Mod	lical Certifica	to - VALID	MEDICAL -WA	TVEDS/LTM	тт
Certificate(s)/Rating(s)	Age - 63 Biennial Flight F	Peview	Flin	ht Time (H	nurs)	IIVERS/ CIM	1.
PRIVATE	Current	- UNK/NR	Total -	710	Last 24	Hrs -	2
SE LAND, ME LAND	Months Since	- UNK/NR	Make/Model-	710	Last 30	Days- UN	K/NR
,	Aircraft Type	e - UNK/NR	Instrument- U	NK/NR	Last 90	Days-	12
	• •		Make/Model- Instrument- U Multi-Eng -	83	Rotorcr	aft - UN	K/NR
Instrument Rating(s) - AIRPLANE							
arrative							
CFT COLLIDED WITH VASI LIGHTS DURING A	N UNSCHEDULED LANDIN	NG WHEN PLT BE	CAME ILL & ACC RANSPORTED BY	URDING TO	THE PASSENG	IERS	

File No. - 5034 6/14/84 CHOWCHILLA, CA A/C Reg. No. N32139 Time (Lc1) - 2140 PDT Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation APPROACH Finding(s) 1. PRECAUTIONARY LANDING - ATTEMPTED - PILOT IN COMMAND 2. AIRCRAFT HANDLING - UNCONTROLLED - PILOT IN COMMAND INCAPACITATION(OTHER ORGANIC PROBLEM) - PILOT IN COMMAND 4. REMEDIAL ACTION - PERFORMED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation APPROACH Finding(s) 5. LIGHT CONDITION - DARK NIGHT 6. OBJECT - APPROACH LIGHT/NAVAID

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3

Factor(s) relating to this incident is/are finding(s) 5,6

----Probable Cause----

Brief of Accident/Incident

File No 6003 7/14/84 CONCOR	D,CA A	/C Reg. No. DIK	ĸĸs	т	ime (Lc1) -	1212 PDT	
Type Operation PERSONAL Flight Conducted Under -14 CFR 91 Acc/Inc Occurred During -APPROACH	DE Fir	craft Damage SSTROYED e GROUND	Crew Pass	Fata1 2 4	Injur Serious O O	les Minor O O	None 0 0
Aircraft Information Make/Model - PIPER PA-31T Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 9000 No. of Seats - 7	Eng Make/Model Number Engines Engine Type Rated Power	- P & W PT6A-28 - 2 - TURBOPROP - 620 HP			Installed/Adtall Warning		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELETYPE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 310/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 15000 FT SCATT Lowest Ceiling - 25000 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure F SANTA MONICA,C Destination CONCORD,CA ATC/Airspace ERED Type of Flight F N Type of Clearanc Type Apch/Lndg	lan - NONE	Α	OFF AI drport D BUCHAN Runway Runway Runway	AN Ident - Lth/Wid - Surface -		150
	Age - 49 Biennial Flight Review Current - YE Months Since - 1 Aircraft Type - PE	<i>i</i> ES Total Make/Mo k-42 Instrum		: Time (H 400 K/NR K/NR	Last 24 Last 30 Last 90	Hrs - UN Days- UN	K/NR K/NR K/NR
Instrument Rating(s) - AIRPLANE							
THE PIPER PA-31T WAS A FOREIGN REGISTERED ACFT SEAT HELD A GERMAN COMMERCIAL CERTIFICATE WITH PLT IN THE RIGHT FRONT SEAT HELD AN AMERICAN FARRIVAL, THE ACFT WAS CLEARED TO ENTER A RIGHT ON THE SAME RWY. WHEN THE PA-31 AIRCREW CALLED IN SIGHT, BUT THEY DID NOT REPLY. THE DECATHLE LAND. THE PA-31 WAS OBSERVED TO OVERSHOOT THE AN ERRATIC, SLOW SPEED, NOSE HI TURN AT LOW ALL OCCURRED ON A GROUND STRUCTURE. AN INVESTIGATION	I AIRPLANE INSTRUMENT, PIVATE CERTIFICATE WIT TRAFFIC PATTERN FOR FOUND TO A BASE LOW PLT WAS THEN INSTRUCTURN TO THE FINAL APCH.T, THEN IT ENTERED A FOUND TO THE FINAL APCH.T.	SINGLE ENG LAND H AN AIRPLANE SI WY 32R & WAS TO LEG, THE TOWER AS TED TO CHANGE HI H COURSE TO RWY 3 RIGHT TURN, NOSE	& MULTI- INGLE ENG FOLLOW A SKED IF 1 IS APCH 1 32R. WITN DOWN SPI	ENG LAND CAND RA COECATHL CHEY HAD CO 32L & JESSES RE CN, CRASH	RATINGS. THE TING. DURING ON THAT WAS THE DECATHLE WAS CLEARED PORTED THE ABOUT THE AB	ELANDING JN TO ACFT MADE IMPACT	

Brief of Accident/Incident (Continued)

File No. - 6003 7/14/84 CONCORD, CA A/C Reg. No. DIKKS Time (Lc1) - 1212 PDT LOSS OF CONTROL - IN FLIGHT Occurrence #1 Phase of Operation APPROACH - VFR PATTERN - BASE TO FINAL Finding(s) 1. PLANNED APPROACH - IMPROPER - PILOT IN COMMAND IMPROPER USE OF EQUIPMENT/AIRCRAFT, DIVERTED ATTENTION - PILOT IN COMMAND 3. AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND 4. STALL/SPIN - INADVERTENT - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - UNCONTROLLED Finding(s) 5. OBJECT - BUILDING(NONRESIDENTIAL) ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident is/are finding(s) 3,4

Factor(s) relating to this incident is/are finding(s) 1,2

-Basic Information						
Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraf MINOR	t Damage	Fata1	Inju Serious	ries Minor	None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	•	ŏ	ŏ	2
Incident Occurred During -OTHER					_	_
-Aircraft Information						
Make/Model - CESSNA 172	Eng Make/Mode1 - CO			Installed/		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1		S	tall Warni	ng System	- YES
Max Gross Wt - 2300	Engine Type - RE		ETOR			
No. of Seats - 4	Rated Power -	145 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	· · · · · · · · · · · · · · · · · ·		ON AIR	PORT		
Completeness - N/A	SAME AS ACC/INC Destination		Airport D	2+2		
Basic Weather - VMC	SAN MARTIN,CA		BENTON			
Wind Dir/Speed- 140/005 KTS	3AK MAK12K,3A				- UNK/NR	
Visibility - 20.0 SM	ATC/Airspace			Lth/Wid		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE	Runway	Surface	- UNK/NR	
Lowest Ceiling - NONE	Type of Clearance		Runway	Status	- UNK/NR	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 56	Medical Certifica			AIVERS/LIM	IT
Certificate(s)/Rating(s) PRIVATE	Biennial Flight Review Current - YES	Total -	ht Time (H 1170		4 Hrs -	2
SE LAND	Months Since - 11	Make/Model-		Last 3		13
SE EARD	Aircraft Type - UNK/NR	Instrument-	7	Last 9		16
	ATT OF EACH TO THE OF T		•	2001	0 00,0	, .
Instrument Rating(s) - NONE						
-Narrative						
BRIEFED PAX ON USE OF BRAKES SO HE COULD	HAND PROP ACET, PLT STATED.	THE ACFT "GOT AWA	Y FROM THE	PASSENGER		
N THE ENGINE STARTED. ACFT CONTACTED A PAR						

File No. - 5042 8/20/84 REDDING,CA A/C Reg. No. N7360A Time (Lc1) - 1700 PDT

Occurrence
Phase of Operation

ON GROUND COLLISION WITH OBJECT OTHER

Finding(s)

- 1. PROPER ASSISTANCE NOT OBTAINED PILOT IN COMMAND
- 2. STARTING PROCEDURE INITIATED -
- 3. BRAKES(NORMAL) IMPROPER USE OF PASSENGER
- 4. OBJECT AIRCRAFT PARKED
- 5. OBJECT AIRPORT FACILITY

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $1s/are\ finding(s)$ 1

Factor(s) relating to this incident is/are finding(s) 4,5

File No 5099 11/04/84 SAN	TA ANA,CA A/C Reg	. No. N5840T	T i	me (Lc1) -	2145 PST	
Basic Information Type Operating Certificate-COMMUTER	Aircraft	Damage		Injuri		
	NONE		Fatal	Serious		None
Type of Operation -POSITIONIN		Crew		0	0	2
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Incident Occurred During -CLIMB						
Aircraft Information				·		
Make/Model - WESTLAND WG30	Eng Make/Model - ROLL	S POYCE GEM 510	FIT T	nstalled/Ac	tivated -	- NO -N/A
Landing Gear - TRICYCLE-FIXED	Number Engines - 2	S ROTOL GEM STO		tall Warning		
Max Gross Wt - 12350	Engine Type - TURB	NSHAFT	31	arr warring	Jystem	140
No. of Seats - 18	Rated Power - 10					
Environment/Operations Information						
Weather Data	Itinerary		Airport F			
Wx Briefing - UNK/NR	Last Departure Point		OFF AIR	RPORT/STRIP		
Method - UNK/NR	SANTA ANA,CA					
Completeness - UNK/NR	Destination		Airport Da	ata		
Basic Weather - IMC	LOS ANGELES, CA		JOHN WA	YNE		
Wind Dir/Speed- CALM			Runway	Ident -	19	
Visibility - 2.000 SM	ATC/Airspace		-	Lth/Wid -	2887-N/	Δ.
Lowest Sky/Clouds - 700 FT	Type of Flight Plan -	IFR		Surface -		
Lowest Ceiling - OBSCURED	Type of Clearance -			Status -		
Obstructions to Vision- HAZE	Type Apch/Lndg -			•		
Precipitation - NONE	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Condition of Light - NIGHT(DARK)						
Personnel Information Pilot-In-Command	Amo - 26	ledical Certifica	.ta - VALTD	MEDICAL -WAI	VEDC/LTM:	
Certificate(s)/Rating(s)					VERS/LIM	11
	Biennial Flight Review		ht Time (Ho			Z /ND
PRIVATE	Current - UNK/NR	Total - Make/Model-	4400	Last 24	Hrs - UNI	
SE LAND	Months Since - UNK/NR	Make/Model-	4/5	Last 30	Days- UNI	K/NR
HELICOPTER	Aircraft Type - UNK/NR	Instrument- L	INK/NR	Last 90	Days- UNI	K/NR
		Multi-Eng - L	INK/NR	Rotorcra	aft - UNI	K/NR
Instrument Rating(s) - HELICOPTE	D					
	K					
Narrative						
RING A CLIMB TO CRUISE, THE CREW EXPERIEN	CED CONTROL DIFFICULTIES WHEN T	HE FOR-&-AFT TRI	M ACTUATOR	REGAN TO MO	TOR	
RWARD AND WOULD NOT STOP. AN EMERG DESCEN						
OM INCREASING OVER 120 KTS. THE ACFT RETU						
RNING LIGHTS WERE OBSERVED. AN INVESTIGAT						
ULING OF THE CONTACT OPERATION BY A BROKE						
				ED AS MICKO	CKACKS	
ICH RESULTED FROM COLD FORMING BENDING AN	O SUDSEQUENT STRAIGHTENING PRUC	ESS DOKING MANUF	ACTURE.			
	PAGE40					

File No. - 5099 11/04/84 SANTA ANA,CA A/C Reg. No. N5840T Time (Lc1) - 2145 PST

Occurrence AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation CLIMB - TO CRUISE

Finding(s)

1. ELECTRICAL SYSTEM,ELECTRIC RELAY - FAILURE,TOTAL
2. MATERIAL DEFECT(INADEQUATE QUALITY CONTROL) - MANUFACTURER
3. REMEDIAL ACTION - PERFORMED - PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

----Probable Cause----

File No 5079 11/27/84 GL	ENDALE, CA	A/C Reg.	No. N6713D	т	ime (Lc1)	- 0958 PST	
Basic Information Type Operating Certificate-ON-DEMAND	AIR TAXI	Aircraft Da	mage		Int	uries	
Name of Carrier -RIVERSIDE		MINOR	age	Fatal	Serious		None
Type of Operation -NON SCHED	.DOMESTIC.PASSENGER	Fire	Crev		0	0	1
Type of Operation -NON SCHED Flight Conducted Under -14 CFR 13	5	NONE	Pass	•	ŏ	Ö	1
Incident Occurred During -LANDING					•		•
Aircraft Information							
Make/Model - BEECH C24R	Eng Make/Mo	del - LYCOMI	NG 10-360-A1B6	ELT	Installed	/Activated	- YES/NO
Landing Gear - TRICYCLE-FIXED	Number Engi	nes - 1		S	tall Warn	ing System	- YES
Max Gross Wt - 2750	Engine Type	- RECIP-	FUEL INJECTED				
No. of Seats - 4	Rated Power	- 200					
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - FSS	Last Departu	re Point		OFF AI	RPORT/STR	IP	
Method - TELEPHONE	RIVERSIDE.				•		
Completeness - FULL	Destination			Airport D	ata		
Basic Weather - VMC	PASO, ROBLE	S.CA					
Wind Dir/Speed- 190/004 KTS		-,		Runway	Ident	- N/A	
Visibility - 6.0 SM	ATC/Airspace				Lth/Wid		
Lowest Sky/Clouds - CLEAR	Type of Flig	ht Plan - VF	R		Surface		
Lowest Ceiling - NONE	Type of Clea			•	Status	· .	
Obstructions to Vision- HAZE	Type Apch/Lr			Karmay	5 14 145	117.5	
Precipitation - NONE	Type Apolly El	140	· • •				
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 35	Med	ical Certifica	ate - VALID	MEDICAL-	NO WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Re			ght Time (H		·	
COMMERCIAL.ATP.CFI		- YES	Total -			24 Hrs -	0
SE LAND, ME LAND	Months Since	- 0	Make/Model-			30 Days-	12
	Aircraft Type		Instrument-			90 Days-	40
		52 . / .	Multi-Eng -	450			. •
Instrument Rating(s) - AIRPLANE							
TER A LOSS OF ENG POWER, THE PLT MADE A ABILIZER SNAGGED A GUY WIRE WHICH CROSSE						MD	
EDED A ROTOR & BODY KIT. HE PURCHASED A	KIT THAT DID NOT HAVE	A YELLOW OVE	RHAUL TAG. THE	OPERATOR'	S PERSONN		
EN OVERHAULED, ASSEMBLED & INSTALLED THE ATION. NUMEROUS DISCREPANCIES WERE FOUND S FOUND IN THE ENGINE DRIVEN FUEL PUMP S	CONCERNING THE ELCTRI					THE VANE	
		40					
	PAGE	4Z					

File No 50	79 11/27/84 	GLENDALE, CA	A/C Reg. No. N6713D	Time (Lc1) - 0958 PST
Occurrence #1 Phase of Operation	LOSS OF POWER(TO CRUISE	TAL) - MECH FAILURE/M	ALFUNCTION	
Finding(s) 1. MAINTENANCE - I 2. FUEL SYSTEM,PUM 3. FUEL SYSTEM,SCR 4. FLUID,FUEL - ST	P - FAILURE,PARTIA EEN - BLOCKED(PART	L IAL)		
Occurrence #2 Phase of Operation		NCY		
Occurrence #3	ON GROUND COLLIS	ION WITH OBJECT		

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,4

Brief of Incident

File No 5022 1/14/84 D	URANGO, CO	A/C Reg.	No. N31088	т.	ime (Lc1) -	2105 MST	-
Basic Information							
Type Operating Certificate-COMMUTER		Aircraft Da	mage		Injur	ies	
Name of Carrier -COMMUTER	AIRLINES OF CO.	MINOR		Fatal	Serious		None
Type of Operation -SCHEDULE			Crew	0	0	0	2
Flight Conducted Under -14 CFR 1	35	NONE	Pass	0	0	0	4
Incident Occurred During -LANDING							
Aircraft Information							
Make/Model - SWEARINGEN SA227-AC	Eng Make/Mo	del - GARRET	T TPE 331-11	ELT 1	[nstalled/A	ctivated	- YES/NO
Landing Gear - TRICYCLE-RETRACTABL	E Number Engi	ines - 2		St	tall Warning	g System	- YES
Max Gross Wt - 12500	Engine Type	- TURBOP	ROP			-	
No. of Seats - 18	Rated Power	- 1000	HP				
Environment/Operations Information	_						
Weather Data	Itinerary			Airport F	Proximity		
Wx Briefing - COMPANY	Last Departu	re Point		ON AIR			
Method - IN PERSON	ALBUQUERQL						
Completeness - FULL	Destination	_,		Airport Da	ata		
Basic Weather - VMC	SAME AS AC	C/INC			TA COUNTY		
Wind Dir/Speed- CALM					Ident -	02	
Visibility - 4.000 SM	ATC/Airspace				Lth/Wid -		150
Lowest Sky/Clouds - 2000 FT	Type of Flic	ht Plan - IF	R		Surface -		
	OVERCAST Type of Clea			Runway	Status -	ICE COVE	RED
Obstructions to Vision- NONE	Type Apch/Lr					SNOW - D	
Precipitation - RAIN	3,12 , 32		_				
Condition of Light - NIGHT(DAR	K) .						
Personnel Information							
Pilot-In-Command	Age - 27	Med	ical Certifica	te - VALID	MEDICAL-WA	IVERS/LIM	IIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Re	eview	Fliq	ht Time (Ho	ours)		
ATP	Current	- YES	Total -	7000	Last 24	Hrs -	4
SE LAND, ME LAND	Months Since	- 6	Make/Model-	3200	Last 30	Davs- UN	IK/NR
·	Aircraft Type	- SA-227	Instrument- U	NK/NR	Last 90	Days-	220
			Multi-Eng - U		Rotorcr	aft - UN	IK/NR
Instrument Rating(s) - AIRPLAN	E						
	E 		Multi-Eng - U	NK/NR 	Rotorcr	aft - UN	IK/NR
Narrative CCORDING TO THE CAPTAIN, THE COPLT WAS M 15 KTS. HE SAID A SLIGHTLY HIGHER AIRSPE EADING EDGE OF THE WINGS. IN THE FLARE, O THE LEFT. THE LEFT MAIN WHEEL TOUCHED ONTROL & APPLIED CORRECTIVE ACTION, BUT HE NORMAL APCH SPEED WAS 103 KTS FOR THE NCREASED BY 19 KTS IF THERE WAS ICE ON T	ED WAS USED TO COMPENSA THE ACFT YAWED LEFT & F DOWN ABOUT 21 FT FROM T THE ACFT WENT OFF THE F ACFT'S WEIGHT. ACCORDI	ATE FOR A SMA REPORTEDLY TO THE EDGE OF T RWY, HIT A SN	LL ABOUNT OF I UCHED DOWN WIT HE 150 FT WIDE OW BANK & MUD,	CE THAT REM H THE NOSE RWY. THE (THEN THE M	MAINED ON TO ABOUT 15 DO CAPT TOOK NOSE GEAR CO	HE EGS Ollapsed.	

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File No. - 5022 1/14/84 A/C Reg. No. N31088 Time (Lc1) - 2105 MST DURANGO.CO IN FLIGHT ENCOUNTER WITH WEATHER Occurrence #1 Phase of Operation OTHER Finding(s) 1. WEATHER CONDITION - ICING CONDITIONS 2. WING - ICE Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 3. AIRSPEED - INADEQUATE - COPILOT 4. SUPERVISION - INADEQUATE - PILOT IN COMMAND 5. DIRECTIONAL CONTROL - NOT MAINTAINED -6. GROUND LOOP/SWERVE - INADVERTENT -Occurrence #3 NOSE GEAR COLLAPSED Phase of Operation LANDING Finding(s) 7. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - ICY 8. TERRAIN CONDITION - SNOWBANK 9. TERRAIN CONDITION - SOFT 10. TERRAIN CONDITION - WET ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3,4,5 Factor(s) relating to this incident is/are finding(s) 1,2,7,8,9,10

Brief of Accident/Incident

Basic Information							
Type Operating Certificate-ON-	DEMAND AIR TAXI	Aircraft Damage	•		Inju	ırtes	
Name of Carrier -TAX	I AEREO DE VERACRUZ	SUBSTANTIAL		Fata1	Serious	Minor	None
Type of Operation -NON	SCHED, INTL, PASSENGER	Fire	Crew	0	0	_	2
Flight Conducted Under -14		NONE	Pass	0	0	0	3
Acc/Inc Occurred During -LAN							
Aircraft Information							
Make/Mode1 - GATES LEARJET	25D Eng Make/	Model - GE 610-8A		ELT I	nstalled/	'Activated	- YES/N
Landing Gear - TRICYCLE-RETRA				St	all Warnt	ng System	- YES
Max Gross Wt - 15000	Engine Tv	gines - 2 De - TURBOFAN				3 -,	
No. of Seats - 10	Rated Pow	er - 2950 LBS	S THRUST				
Environment/Operations Informati	on						
Weather Data	Itinerary			Airport F	roximity		
Wx Briefing - NWS	Last Depar	ture Point		ON AIRF			
Method - IN PERSON	SAN ANTO			Old Alki			
Completeness - FULL	Destination	•		Airport Da	ta		
Basic Weather - VMC	SAME AS			•	ON INTL		
Wind Dir/Speed- 030/010 KTS	SAME AS	100, 1110			Ident	- 35R	
Visibility - 15.0 SM	ATC/Airspace					- 12000/	200
Lowest Sky/Clouds - 300	O FT SCATTERED Type of F1	ight Plan - IFR				- CONCRETE	
Lowest Sky/Clouds - 300 Lowest Ceiling - 2500	O FT OVERCAST Type of C1	earance - IFR		Runway	Status	- DRY	-
Obstructions to Vision- NONE	Type Apch/	Lndg - ILS-C					
Precipitation - SNOW		FULL S					
Condition of Light - DAYL	IGHT						
Personnel Information							
Pilot-In-Command	Age - 26	Medica	1 Certificat	e - VALID	MEDICAL-N	NO WAIVERS	LIMIT
Certificate(s)/Rating(s)	Biennial Flight			t Time (Ho			
COMMERCIAL	Current	- NO To	tal -	2020	Last 2	24 Hrs -	4
ME LAND	Months Since	- 0 Mai	ke/Mode1-	28	Last 3	30 Days- UN	NK/NR
	Aircraft Typ	e - UNK/NR In:	strument-	128	Last 9	O Days-	32
		Mu	lti-Eng -	1790			
Instrument Rating(s) - AI	RPLANE						
Narrative							
T 1 MI FROM THE ARPT WHILE ESTAB	LISHED ON THE GLIDE SLOPE,	THE PLT WAS ADVI	SED BY THE C	ONTROLLER	TO GO ARO	DUND DUE TO	כ
FIC ON THE GROUND. JUST AFTER TH	IE PLT ADVANCED THE THROTTL	ES & RETRACTED TH	E LANDING GE	AR, THE CO	NTROLLER	AGAIN	
RED THE PLT FOR LANDING SINCE TH	IE TRAFFIC ON THE GROUND HA	D CLEARED THE RWY	. THE PLT ST	ATED HE IN	MEDIATEL	"CHOPPED	ıt
THROTTLES & EXTENDED THE GEAR. T							
IKLING OF THE FUSELAGE SKIN WAS F	VIDENT JUST FORWARD OF EAC	H ENG. EXTENSIVE	EXTERNAL BUC	KLING COUL	D BE SEE	N IN THE	
WEING OF THE FOSCEAGE SKIN WAS E							

Brief of Accident/Incident (Continued)

File No. - 6001 3/03/84 DENVER,CO A/C Reg. No. XALAP Time (Lc1) - 1345 MST

Occurrence HARD LANDING
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)
1. LEVEL OFF - IMPROPER - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident is/are finding(s) 1

File No 5003 3/22/84 DENVE	R,CO	A/C Reg	. No. N88709	Т	ime (Lc1) -	0943 MST	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -CONTINENTAL Type of Operation -SCHEDULED,DC Flight Conducted Under -14 CFR 121 Incident Occurred During -LANDING	AIRLINES, INC	Aircraft NONE Fire NONE	Damage Cre Pas		Injur Serious O O		None 7 126
Aircraft Information Make/Model - BOEING 727-224 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 142000 No. of Seats - UNK/NR	Eng Make/M Number Eng Engine Typ Rated Power	e - TURB	DFAN		Installed/A		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart CHICAGO,II Destination SAME AS AG ATC/Airspace Type of Flig Type of Cle Type Apch/Li	L CC/INC ght Plan - arance -		ON AIR Airport D STAPLE Runway Runway Runway	ata TON Ident - Lth/Wid - Surface -		200
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND,SE SEA	Age - UNK/NR Biennial Flight R Current Months Since Aircraft Type	eview - YES - UNK/NR		ght Time (H UNK/NR UNK/NR UNK/NR	lours) Last 24 Last 30 Last 90	Hrs - UN Days- UN Days- UN aft - UN	IK/NR IK/NR
Instrument Rating(s) - AIRPLANE							
PRIOR TO TAXIING AT CHICAGO, THE PLT HAD THE SECOND OFFICER'S PANEL WAS "ON". THE R/A RECYSO THE PLT REFERRED TO THE MINIMUM EQUIP'T LIFT THE WARNING SYSTEM WAS INOP. DURING TAXI/"INFLIGHT. ALL WATER WAS SHUT OFF IN THE REAR UPON LANDING AS THE ACFT SLOWED ON THE RWY, WAS FOUND IN THE FULL UP POSITION (AIRSTAIR OF THE AIRSTAIR WILL HAVE THE APPEARANCE OF BEIT PRESSURE COULD KEEP THE AIRSTAIR IN THE CLOSE	YCLED THE AIRSTAIR IST WHICH REQUIRED TAKEOFF THE AIRSTAI OF THE ACFT TO AVO THE AIRSTAIR OPENED DPEN) AFTER LANDING NG UP & LOCKED ALTH	& REPORTED THAT THE AI R HANDLE MO ID POSSIBLE TO THE FUL . THE HANDL OUGH THE UP	THAT IT APPEARE RSTAIR BE VISUA VED LEADING TO ICE BUILD-UP & L DOWN POSITION E CAN BE PULLED LOCKS ARE NOT E	D CLOSED. T LLY CHECKED AIRSTAIR OF THE FLT CO THE EXTER DOWN PARTI NGAGED. RES	THE LIGHT RED CLOSED PRIMERING ABOUT ONTINUED TO RNAL AIRSTAI SALLY (NOT LE	MAINED ON OR TO FLI 1 FT DENVER. R HANDLE OCKED) &	

File No. - 5003

3/22/84

DENVER, CO

A/C Reg. No. N88709

Time (Lc1) - 0943 MST

Occurrence

MISCELLANEOUS/OTHER

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. DOOR, ENTRANCE STAIR - UNLOCKED

- 2. PROCEDURES/DIRECTIVES NOT UNDERSTOOD PILOT IN COMMAND
- 3. DOOR, ENTRANCE STAIR OPEN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2

Factor(s) relating to this incident is/are finding(s) 1,3

	DENVER, CO	A/C Reg. No. N1992		Time (Lc1)	- 2317 MDT	
Basic Information Type Operating Certificate-AIR CARE		rcraft Damage		Inju	uries	
Name of Carrier -AMERICAN		INOR	Fat	al Serious	Minor	None
Type of Operation -SCHEDULE	D,DOMESTIC,PASSENGER F1	re		0 0	0	7
Flight Conducted Under -14 CFR Incident Occurred During -LANDING		ONE		0 0	0	68
Aircraft Information						
Make/Model - BOEING 727-23	Eng Make/Model	- P&W JT8D-11		ELT Installed/	Activated	- NO -N/
Landing Gear - TRICYCLE-RETRACTABL				Stall Warni		
Max Gross Wt - 142000	Engine Type	- TURBOJET			. 3 -,	
No. of Seats - 134	Rated Power	-	ST			
Environment/Operations Information						
Weather Data	Itinerary		Airp	ort Proximity		
Wx Briefing - COMPANY	Last Departure	Point	01	AIRPORT		
Method - IN PERSON	CHICAGO, IL					
Completeness - FULL	Destination		Airpo	ort Data		
Basic Weather - VMC	DENVER, CO		S1	APLETON INT'L		
Wind Dir/Speed- 200/012 KTS			Ru	ınway Ident	- 26L	
Visibility - 20.0 SM	ATC/Airspace		Ru	inway Lth/Wid	- 10010/	150
Lowest Sky/Clouds - 9000 FT	SCATTERED Type of Flight	Plan - IFR	Ru	inway Surface	- CONCRETE	
Lowest Ceiling - NONE	Type of Clearan	ce - IFR	Ru	ınway Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP		•		
Precipitation - NONE						
Condition of Light - NIGHT(BR	IGHT)					
Personnel Information						
Pilot-In-Command	Age - 50	Medical Cert	ificate - \	ALID MEDICAL-V	WAIVERS/LIM	ΙT
Certificate(s)/Rating(s)	Biennial Flight Revie	W	Flight Tin	ne (Hours)		
COMMERCIAL, ATP, FLT ENG	Current - Y	ES Total	- 12625	Last 2	24 Hrs -	2
SE LAND, ME LAND	Months Since -	4 Make/Mode	9100	Last 3	30 Days- UN	K/NR
HELICOPTER	Aircraft Type - 7	27 Instrume	nt- UNK/NR	Last 9	90 Days-	150
	•	Multi-Eng	g - UNK/NR		craft - UN	

File No. - 5090 7/03/84 DENVER,CO A/C Reg. No. N1992 Time (Lc1) - 2317 MDT

Occurrence

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

- 1. LIGHT CONDITION NIGHT
- 2. WEATHER CONDITION CROSSWIND
- 3. WEATHER CONDITION TAILWIND
- 4. WRONG RUNWAY SELECTED PILOT IN COMMAND
- 5. COMPENSATION FOR WIND CONDITIONS IMPROPER PILOT IN COMMAND
- 6. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 7. GROUND LOOP/SWERVE INADVERTENT PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 5,6

Factor(s) relating to this incident is/are finding(s) 1,2,3,4

ficate-AIR CARRIER -FERRY er -14 CFR 91 ring -TAKEOFF	MINOR Fire NONE	Damage Crew Pass	Fata1 0 0	Injur Serious O O		None 2 4
er -14 CFR 91 ring -TAKEOFF VILLAND DHC-7-100	Fire NONE	Pass	0	0	0	2
er -14 CFR 91 ring -TAKEOFF VILLAND DHC-7-100	NONE	Pass	-	-		
VILLAND DHC-7-100						
VILLAND DHC-7-100	Eng Moke/Medel DOW				,	
	FOO MAKE/WOOD - PAW	PT6-50	FIT	nstalled/#	activated -	- NO -N/A
	Number Engines - 4				ng System	
00	Engine Type - TURB	OPROP	•			
59						
Information						
	Itinerary		Airport P	roximity		
	Last Departure Point		ON AIRP	ORT		
K/NR	CASPER, WY					
	Destination	Α	drport Da	ta		
	DENVER, CO					
0/005 KTS						
20.0 SM			•	•		
			•			
				Status ·	- UNK/NR	
	Type Apch/Lndg -	PRECAUTIONARY LAND	ING			
- NIGHT(DARK)						
			==		/	
					11VERS/LIM	11
ng(s)			: lime (Ho	urs)	4 11 1181	14 /ND
	Current - YES	lotal - UNK	/NR	Last 24	A Hrs - UN	K/NR
	Months Since - 5	Make/Model- UNK	/NR	Last 30	Days- UN	K/NK
	Aircraft Type - DHC-/					
ng(s) - AIRPLANE						
	Information MPANY MK/NR MK/NR MC MC MC MC MC MC MC MC MC M	Itinerary IMPANY IMP	Itinerary MMPANY Last Departure Point MK/NR CASPER,WY MK/NR Destination DENVER,CO 00/005 KTS 20.0 SM ATC/Airspace - 12000 FT THIN BKN Type of Flight Plan - IFR - 25000 FT OVERCAST Type of Clearance - IFR sion-NONE NONE NONE NIGHT(DARK) Age - 28 Medical Certificate Right Review Current - YES Months Since - 5 Make/Model- UNK Aircraft Type - DHC-7 Instrument- UNK Multi-Eng - UNK	Itinerary Airport P IMPANY Last Departure Point ON AIRP IK/NR CASPER,WY IK/NR Destination Airport Da IC DENVER,CO SOUNDEST RUNWAY - 12000 FT THIN BKN Type of Flight Plan - IFR Runway - 25000 FT OVERCAST Type of Clearance - IFR Runway Sion- NONE Type Apch/Lndg - PRECAUTIONARY LANDING - NONE - NIGHT(DARK) Age - 28 Medical Certificate - VALID IC CUrrent - YES Total - UNK/NR Months Since - 5 Make/Model - UNK/NR Aircraft Type - DHC-7 Instrument - UNK/NR Multi-Eng - UNK/NR Agg(s) - AIRPLANE	Itinerary MPANY Last Departure Point CASPER,WY MK/NR Destination DENVER,CD MO/005 KTS 20.0 SM ATC/Airspace - 12000 FT THIN BKN Type of Flight Plan - IFR Sion- NONE NONE - NIGHT(DARK) Age - 28 Medical Certificate - VALID MEDICAL-WA Months Since - 5 Make/Model- UNK/NR Last 26 Months Since - 5 Make/Model- UNK/NR Last 36 Multi-Eng - UNK/NR Rotorer Maliport Proximity ON AIRPLANE Airport Proximity ON AIRPLANE	Itinerary

File No. - 5104 7/29/84

DENVER, CO

A/C Reg. No. N9058P

Time (Lc1) - 0358 MDT

Occurrence

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. LANDING GEAR, MAIN GEAR SHOCK ABSORBING STRUT - SEPARATION

- 2. MAINTENANCE, INSTALLATION IMPROPER COMPANY MAINTENANCE PSNL
- IMPROPER USE OF PROCEDURE, INFORMATION UNCLEAR MANUFACTURER
- 4. LANDING GEAR, MAIN GEAR SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,4

Factor(s) relating to this incident is/are finding(s) 3

File No 5098 10/21/84 FORT I	MORGAN, CO A	/C Reg. No. N19	21T	Time (Lc1) -	1512 MDT	
Basic Information Type Operating Certificate-COMMUTER Name of Carrier -PIONEER AIRWA	Air	craft Damage NOR	Fatal	Injurio Serious	es Minor	None
Type of Operation -SCHEDULED, DOI	MESTIC.PASSENGER Fir		Crew 0	0	0	2
Flight Conducted Under -14 CFR 135		NE NE	Pass 0	0	ŏ	4
Incident Occurred During -CRUISE	140	NE	rass 0	O		•
Aircraft Information						
Make/Model - BEECH 99A	Eng Make/Model		EL.	T Installed/Ac		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines			Stall Warning	System	- YES
Max Gross Wt - 10400	9 ,.	- TURBOPROP				
No. of Seats - 17	Rated Power	- 550 HP				
Environment/Operations Information	_					
Weather Data	Itinerary			t Proximity		
Wx Briefing - COMPANY	Last Departure P	oint	OFF A	AIRPORT/STRIP		
Method - IN PERSON	DENVER, CO					
Completeness - FULL	Destination		Airport	Data		
Basic Weather - IMC	SYDNEY, NE					
Wind Dir/Speed- 007/007 KTS					N/A	
Visibility - 10.0 SM	ATC/Airspace				N/A	
Lowest Sky/Clouds - 700 FT THIN				ay Surface - 1	N/A	
Lowest Ceiling - 10000 FT BROK				ay Status 🕒	N/A	
Obstructions to Vision- NONE Precipitation - SNOW SHOWER	Type Apch/Lndg	- FORCED LA	NDING			
Condition of Light - DAYLIGHT						
Personnel Information				·		
Pilot-In-Command	Age - 43		rtificate - VAL		VERS/LIM	11
Certificate(s)/Rating(s)	Biennial Flight Review		Flight Time			
ATP, CFI	Current - YE		- 8790	Last 24		
SE LAND, ME LAND	Months Since - C		lode1- 18	Last 30		
	Aircraft Type - 99		ment- UNK/NR	Last 90	Days- UN	K/NR
		Multi-	Eng - 7267	Rotorcra	ft - UN	K/NR
Instrument Rating(s) - AIRPLANE						
Narrative PTAIN SHUTDOWN RT ENGINE IN-FLIGHT DUE TO A NDITIONS AT THE TIME OF THE ENGINE SHUTDOWN S MADE IN A CORN FIELD. POST INCIDENT EXAMI ILED IN FATIGUE, CAUSING ADDITIONAL DAMAGE E WERE FOUND ON VARIOUS UNPROTECTED AREAS OF	. THE CAPTAIN WAS UNABL NATION OF THE RT ENGINE TO THE REMAINING BLADES	E TO MAINTAIN A	LTITUDE AND AN A COMPRESSOR TU	EMERGENCY LAND RBINE BLADE HA		

File No. - 5098 10/21/84 FORT MORGAN, CO A/C Reg. No. N1921T Time (Lc1) - 1512 MDT Occurrence #1 LOSS OF POWER(TOTAL) - MECH FAILURE/MALFUNCTION Phase of Operation CLIMB Finding(s) 1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS 2. WEATHER CONDITION - LOW CEILING 3. COMPRESSOR ASSEMBLY, BLADE - FATIGUE Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH TERRAIN Phase of Operation LANDING Finding(s) 4. NACELLE/PYLON - CROP ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3

Factor(s) relating to this incident is/are finding(s) 4

	/24/84	GROTON,CT	A	/C Reg. No.	N15ST	Т	ime (Lc1)	- 1745 ES	Т
Basic Information Type Operating Certifica		RIFR - FLAG	/DOMESTIC Air	craft Damag			Inju	ries	
Name of Carrier	-TRANS A	MERICA AIRL	INE. IN MI		-	Fatal	Serious		None
Type of Operation	-SCHEDUL	ED, INTL, CAR	30 Fir	е	Crew	0	0	0	7
Flight Conducted Under		121	NO	NE	Pass	0	0	0	0
Incident Occurred During	-TAXI								
Aircraft Information									
Make/Model - LOCKHEED			Eng Make/Model				Installed/		
Landing Gear - TRICYCLE	-RETRACTAB	LE	Number Engines			S	tall Warniı	ng System	ı - UNK/N
Max Gross Wt - 155000			Engine Type						
No. of Seats - 3			Rated Power	- 4350 HP					
Environment/Operations Inf	ormation								
Weather Data		I.	tinerary				Proximity		
Wx Briefing - UNK/NR Method - UNK/NR			Last Departure P	oint		ON AIR	PORT		
			NASSAU						
Completeness - UNK/NR			Destination			Airport D			
Basic Weather - VMC Wind Dir/Speed- 340/01	2 VIC		GROTON, CT			TRUMBU		- N/A	
Visibility - 20.0		A .	TC/Airspace				Lth/Wid	,	
Lowest Sky/Clouds -				lan - TED			Surface		
Lowest Ceiling			Type of Clearanc					- N/A	
Obstructions to Vision			Type Or Creatane		R	Kanway	314145	14, ~	
Precipitation			Type Apoli, Endg	5/1////	•				
Condition of Light									
Personnel Information									
Pilot-In-Command		Age -	39	Medica	1 Certifica	te - VALID	MEDICAL-W	AIVERS/LI	MIT
Certificate(s)/Rating(s)	Bienn	ial Flight Review		Flig	nt Time (H	ours)		
ATP		C	urrent - UN	K/NR To	tal - Š	8490	Last 2	4 Hrs - L	INK/NR
ME LAND		M	onths Since - UN	K/NR Ma	ke/Model-				
		Α	ircraft Type - UN	K/NR In	strument- U				
				Mu	1ti-Eng - Ul	NK/NR	Rotorc	raft - L	INK/NR
Instrument Rating(s)	- AIRPLA	NE							
	URING TAXI								

File No. - 5020 2/24/84 GROTON,CT A/C Reg. No. N15ST Time (Lc1) - 1745 EST

Occurrence
Phase of Operation

ON GROUND COLLISION WITH OBJECT

Phase of Operation TAXI - FROM LANDING

Finding(s)

- 1. LIGHT CONDITION DUSK
- 2. OBJECT AIRCRAFT PARKED
- 3. CLEARANCE MISJUDGED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3

Factor(s) relating to this incident is/are finding(s) 1,2

-Basic Information	- 01 DEMAND ATD								
Type Operating Certificat Name of Carrier	e-UN-DEMAND AIR -GIBSON AVIATI		Aircraft MINOR	Damage		F-4-1	Inj Serious	uries Mino	r None
Type of Operation	-MON SCHED DOM	UN ECTIC CARCO	Fire		Crew	Fatal O	5er 10us	6 MITTO	
Flight Conducted Under		ESTIC, CARGO	IN FLIG	UT	Pass	Ö	0	0	
Incident Occurred During	-TAKEOFF		IN FLIG	П	rass	U	U	O	. 0
Make/Model - BEECH 58			Model - CON	TINENTAL 1	(O-520-C7				ed - YES/N
Landing Gear - TRICYCLE-	RETRACTABLE		gines - 2			S	tall Warr	ing Syste	em - YES
Max Gross Wt - 5400		Engine Ty	pe - REC	IP-FUEL IN	NJECTED				
No. of Seats - 6		Rated Pow	er -	285 HP					
-Environment/Operations Info	rmation								
Weather Data		Itinerary					Proximity	/	
Wx Briefing - FSS			ture Point			ON AIR	PORT		
Method - UNK/NR		WASHINGT							
Completeness - UNK/NR		Destination				Airport D			
Basic Weather - VMC		CHARLOTT	E,NC			NATION			
Wind Dir/Speed- 290/005							Ident		
Visibility - 8.0		ATC/Airspace					Lth/Wid		
Lowest Sky/Clouds -		ERED Type of F1					Surface		LT
Lowest Ceiling -			earance -			Runway	Status	- DRY	
Obstructions to Vision-		Type Apch/	Lndg -	STRAIGHT-	-IN				
Precipitation -									
Condition of Light -	NIGHT(DARK)								
-Personnel Information							MEDICAL		DO /1 THET
Pilot-In-Command		Age - 34		Medical Co				-NO MAINE	K2/LIMI1
Certificate(s)/Rating(s)		Biennial Flight				nt Time (F		04 11	LINIIZ /NID
ATP		Current	- YES		-			24 Hrs -	
SE LAND, ME LAND		Months Since	-		Mode 1 -		Last		
		Aircraft Typ	e - E55	_	ument-		Last	90 Days-	104
				Multi	-Eng -	1000			
Instrument Rating(s)	- AIRPLANE								
PLT MADE AN EMERGENCY LANDI	NG ON RWY 18 FO	LLOWING A LOSS C	F POWER IN	THE RT EN	3 & A SUE	SEQUENT I	N-FLIGHT	FIRE.	
ESTIGATION REVEALED A CRACK	IN THE #1 CYL T	HAT ORIGINATED A	T THE EXHAU	ST PORT, [DOWNSTREA	M OF THE	VALVE. TH	HE CRACK	
	HE TOD CDARK DI	UO HOLE EVENTUA	LLV TT DDO	CDECCED TO	THE DOI	NT THAT TH	HE FLAME	DATH	
PAGATED THROUGH FATIQUE TO T	HE TUP SPARK PL	UG MULE. EVENTUA	LLY, II PRU	GKESSED II	J INE PU		IIL I CAME	FAIII	

A/C Reg. No. N72TM File No. - 5065 8/31/84 WASHINGTON.DC Time (Lc1) - 0123 EDT LOSS OF POWER(PARTIAL) - MECH FAILURE/MALF Occurrence #1 Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. ENGINE ASSEMBLY, CYLINDER - FATIGUE Occurrence #2 FIRE Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 2. MISCELLANEOUS - FIRE 3. PRECAUTIONARY LANDING - PERFORMED - PILOT IN COMMAND ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

File No 5074 9/03/84 WASHI	NGTON, DC	A/C Reg. No. N7	O78U	Time (Lc1)	- 1518 EDT	
Type Operating Certificate-AIR CARRIER Name of Carrier -UNITED AIRLI Type of Operation -SCHEDULED,DO Flight Conducted Under -14 CFR 121 Incident Occurred During -STANDING	NES	Aircraft Damage MINOR Fire NONE	Pass	Injural Serious O O O O O O		None 7 32 42
Aircraft Information Make/Model - BOEING 727-22 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 142000 No. of Seats - 134	Number Engi	- TURBOFAN		ELT Installed// Stall Warni		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 200/008 KTS Visibility - 8.0 SM Lowest Sky/Clouds - 4500 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	KNOXVILLE, ATC/Airspace TERED Type of Flig	,DC TN ht Plan - IFR rance - NONE	ON Airpo NA Ru Ru Ru Ru	nway Lth/Wid nway Surface	- UNK/NR - UNK/NR - ASPHALT - DRY	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP SE LAND,ME LAND Instrument Rating(s) - AIRPLANENarrative MISHAP ACFT, NEW YORK AIR FLIGHT 306 (NYA 306 AREA AND POSITIONED IN THE #2 SPOT FOR TAKEOF CLEARED FIRST FOR TAKEOFF INSTEAD AND PLT INI NYA 306 LEFT WING TIP STRUCK TRAILING EDGE OF	F, ANTICIPATING UAL	view - YES Total - UNK/NR Make/ - 727 Instr Multi - 727, UNITED FLIGH - 827 WOULD RECEIVE	Flight Tim - 18000 'Model- 7611 'ument- UNK/NR -Eng - UNK/NR -TAGE - UNK/NR	Last 2/ Last 3/ Last 9/ Rotorc/ 	4 Hrs - UN 0 Days- UN 0 Days- UN raft - UN	IK/NR IK/NR IK/NR

File No. - 5074 9/03/84 WASHINGTON, DC A/C Reg. No. N7078U Time (Lc1) - 1518 EDT

Occurrence

ON GROUND COLLISION WITH OBJECT

Phase of Operation STANDING

Finding(s)

1. CLEARANCE - MISJUDGED - PILOT OF OTHER AIRCRAFT

2. OBJECT - AIRCRAFT MOVING ON GROUND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Basic Information Type Operating Certificate-AIR CARRIER	- FLAG/DOMESTIC	Aircraft D	amage			Injur	ries	
Name of Carrier -NEW YORK AIR		MINOR	J-		Fatal	Serious	Minor	None
Type of Operation -SCHEDULED,DO	MESTIC, PASSENGER	Fire	1	Crew	0	0	0	6
Flight Conducted Under -14 CFR 121		NONE		Pass	0	0	0	36
Incident Occurred During -TAXI				Other	0	0	0	39
Aircraft Infermation								
Make/Mode1 - MCDONNELL-DOUGLAS MD-80		odel - P&W u	JT8D-D-217			Installed/		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engi				S	tall Warnir	ng System	- YES
Max Gross Wt - 140000	Engine_Type			_				
No. of Seats - 147	Rated Power	- 2000	O LBS THRUS	T 				
Environment/Operations Information	•					B		
Weather Data	Itinerary	.na Dadma			Airport ON AIR	Proximity		
W× Briefing - COMPANY Method - IN PERSON	Last Departu				UN AIR	PURI		
Completeness - WEATHER NOT PERTINENT	WASHINGTON Destination	1, DC			irport D	2+2		
Basic Weather - VMC	NEWARK, NJ			~	NATION			
Wind Dir/Speed- 200/008 KTS	NEWARK, NO						- UNK/NR	
Visibility - 8.0 SM	ATC/Airspace					Lth/Wid	•	
	TERED Type of Flid	ht Plan - I	FR				- ASPHALT	
Lowest Ceiling - NONE	Type of Clea						- DRY	
Obstructions to Vision- HAZE	Type Apch/Lr	ndg - L	JNK/NR		•			
Precipitation - NONE								
Condition of Light - DAYLIGHT								
Personnel Information								
Pilot-In-Command	Age - 40		edical Certi				D WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Re				Time (H		4 11 116.	u. /i.m
ATP	Current	- YES	Total	- UNK	/NR		4 Hrs - UN	
SE LAND, ME LAND	Months Since		Make/Mode		500 (ND	Last 30	Days- UN	IK/NR
	Aircraft Type	- 00-9	Instrumen Multi-Eng	-	/NK /ND	Last 90	raft - UN	IK/NK
			MUITI-ENG	- UNK	/ INK	ROTORCI	raft - UN	IK/ INK
Instrument Rating(s) - AIRPLANE								
SHAP ACFT, NEW YORK AIR FLIGHT 306 (NYA 306								
EA AND POSITIONED IN THE #2 SPOT FOR TAKEOF	F, ANTICIPATING UA	827 WOULD	RECEIVE TAK	EOFF C	LEARANCE	FIRST. NY	A 306 WAS	
EARED FIRST FOR TAKEOFF INSTEAD AND PLT INI	TIATED A HARD RIGHT	TURN BUT A	CFT WAS NOT	IN PO	SITION T	O PASS CLE	AR.	

File No. - 5074

9/03/84

WASHINGTON, DC

A/C Reg. No. N780JA

Time (Lc1) - 1518 EDT

Occurrence

ON GROUND COLLISION WITH OBJECT

Phase of Operation TAXI - TO TAKEOFF

Finding(s)

1. CLEARANCE - MISJUDGED - PILOT IN COMMAND

2. OBJECT - AIRCRAFT PARKED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

File No 5083 9/07/84	WASHINGTON, DC A/C F	Reg. No. N460MC	Т	ime (Lc1) -	2130 ED)T
-Basic Information Type Operating Certificate-NONE (ft Damage		Injur		Al
	NONE		Fatal	Serious	Minor	None
Type of Operation -BUSINE Flight Conducted Under -14 CFF		Cre		0	0	2 3
Incident Occurred During -CRUISE		Pas	ss U	U	U	3
-Aircraft Information						
Make/Mode1 - DASSAULT/SUD FAN				Installed/A		
Landing Gear - TRICYCLE-RETRACTA			S	tall Warnin	ıg System	n - UNK/NF
Max Gross Wt - 22040	Engine Type - Ui					
No. of Seats - 12	Rated Power - U	NK/NR 				
-Environment/Operations Information-			A 1	B		
Weather Data	Itinerary			Proximity		
Wx Briefing - UNK/NR	Last Departure Poin	t	OFF AI	RPORT/STRIP	1	
Method - UNK/NR	TULSA, OK					
Completeness - UNK/NR	Destination		Airport D	ata		
Basic Weather - VMC	ŅEWARK, NJ		_			
Wind Dir/Speed- UNK/NR	/				N/A	
Visibility - 100.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			_	N/A	
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- UNK/NR				
Precipitation - NONE	33.50UT)					
Condition of Light - NIGHT(E	3R1GH1)					
-Personnel Information	A	Medical Certifi	t- VALTD	MEDICAL NO	N MATVED	- /L T8ÅTT
Pilot-In-Command	Age - 28 Biennial Flight Review		ight Time (H		WAIVER:	S/ CIMII
Certificate(s)/Rating(s) ATP	Current - YES	Total -			Hrs -	5
) Days- I	
SE LAND, ME LAND	Months Since - UNK/N	•		Last 90		
	Aircraft Type - UNK/N				raft - I	
		Multi-Eng -	2800	ROTORCE	art -	JINK/ INK

File No. - 5083 9/07/84 WASHINGTON, DC A/C Reg. No. N460MC Time (Lc1) - 2130 EDT

Occurrence Phase of Operation CRUISE - NORMAL

MISCELLANEOUS/OTHER

Finding(s)

1. MISCELLANEOUS

2. INCAPACITATION(STROKE) - PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2

Basic Information				A/C Reg							
Type Operating Certification	te-ON-DEMA	ND AIR TA	(I	Aircraft	Damage			Inj	uries		
Name of Carrier	-TAMPA A	IR CENTER		MINOR	_		Fatal	Serious	M ·	inor	None
Type of Operation			C,CARGO			rew	0	0		0	1
Flight Conducted Under				NONE	Р	ass	0	0		0	0
Incident Occurred During	LANDING	; 									
Aircraft Information											
Make/Model - BEECH D1				Model - P&W							d - YES/N
Landing Gear - TAILWHEE	-ALL REIF	RACTABLE			DD00477110 04D			tall Warr	ning Sy	yster	n - YES
Max Gross Wt - 8750 No. of Seats - 10			Rated Pow		PROCATING-CAR 50 HP	ROKFI	UR				
Environment/Operations Info Weather Data	ormation		Itinerary				Airport	Proximity	,		
Wx Briefing - UNK/NR			Last Depar	ture Point			ON AIR				
Method - UNK/NR			TAMPA, FL								
Completeness - UNK/NR			Destination			A	irport D	ata			
Basic Weather - IMC			JACKSONV	ILLE,FL				NVILLE I			
Wind Dir/Speed- 040/00!								Ident			
Visibility - UNK/NR			ATC/Airspace					Lth/Wid			
Lowest Sky/Clouds -			Type of F1					Surface			Г
		ORSCORED	Type of Cl				Runway	Status	- טאי	Υ	
Obstructions to Vision Precipitation			Type Apcn/	Lnag -	ILS-COMPLETE						
Condition of Light		-									
				-							
Personnel Information Pilot-In-Command		Δαe	- 56	N	ledical Certif	icate	- VALTO	MEDICAL:	-WATVFI	RS/I1	TMTT
Certificate(s)/Rating(s)	Rier	nnial Flight	Review	F		Time (H		WAT 1 C.	,	
COMMERCIAL, CFI	,	2,0,	Current Months Since	- YES	Total				24 Hrs	s -	40
SE LAND, ME LAND			Months Since	- 3	Make/Mode1	- 1	604	Last	30 Day	ys- l	JNK/NR
			Aircraft Type	e - D-18S	instrument			Last	90 Da	ys-	1599
					Multi-Eng	- 3	632				
<pre>Instrument Rating(s)</pre>	- AIRPLA	NE									
Name at the											
Narrative					SYSTEM REVEA						

File No. - 5017 1/17/84 JACKSONVILLE,FL A/C Reg. No. N348W Time (Lc1) - 0901 EST

Occurrence
Phase of Operation

IN FLIGHT COLLISION WITH TERRAIN

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. WEATHER CONDITION - LOW CEILING

- 2. WEATHER CONDITION OBSCURATION
- 3. GEAR EXTENSION NOT PERFORMED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3

Factor(s) relating to this incident is/are finding(s) 1,2

Basic Information							
Type Operating Certificate-AIR CARRIER		Aircraft D	amage	F-4-1	Injur		M
Name of Carrier -EASTERN AIRL: Type of Operation -SCHEDULED, DOI	INES, INC.	MINOR	0	Fatal ew O	Serious	Minor	None
Flight Conducted Under -14 CFR 121	MESTIC, PASSENGER	Fire NONE		ew 0 .ss 0	0	0	3 149
Incident Occurred During -CLIMB		NONE	Ра	ss o	U	U	149
Increent occurred buring -CLIMB							
Aircraft Information							
Make/Model - BOEING 727-225A		odel - P&W J	T8D-15		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng	ines - 3		9	itall Warnin	g System	- YES
Max Gross Wt - 173000	Engine Typ	e - TURBO	FAN				
No. of Seats - 157	Rated Powe	r - 1550	O LBS THRUST				
-Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - COMPANY	Last Depart	ure Point			RPORT/STRIP		
Method - IN PERSON	TAMPA, FL						
Completeness - WEATHER NOT PERTINENT	•			Airport [ata		
Basic Weather - VMC	HOUSTON, T	X					
Wind Dir/Speed-				Runway	/ Ident -	N/A	
Visibility - UNK/NR	ATC/Airspace					N/A	
Lowest Sky/Clouds - UNK/NR		ght Plan - I	FR		•	N/A	
Lowest Ceiling -		arance - I				N/A	
Obstructions to Vision- UNK/NR			RECAUTIONARY			•	
Precipitation - UNK/NR	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Condition of Light - UNK/NR			·				
-Personnel Information							
Pilot-In-Command	Age - 50	Me	dical Certifi	cate - UNK/	IR		
Certificate(s)/Rating(s)	Biennial Flight R			ight Time (
ATP	Current	- UNK/NR				Hrs - UN	NK/NR
ME LAND	Months Since		Make/Model-	5052	Last 30	Days- UN	NK/NR
	Aircraft Type	- UNK/NR	Instrument-	· UNK/NR	Last 90	Days- UN	NK/NR
	2.	•	Multi-Eng -			aft - UN	
			_				
Instrument Rating(s) - AIRPLANE							
-Narrative							
ACFT EXPERIENCED A RAPID LOSS OF FUEL QUA	NITY ON THE #4 FILE	I TANK DUDIA	IC THE CLIMP 1	CDIITCE TI	WESTIGATION	,	
EALED THAT PRIOR TO THIS FLT THE WATER SEP						Į.	
CH SEPARATED IN FLT. THE SEPARATED PLATE I						IAS	
CH SEPARATED IN FLT. THE SEPARATED PLATE I	MI LICIED DAMAGE TO	ONE OF THE	" I FUEL INSPE	CITON PLATE	MIND FUEL W	MJ	

File No. - 5011

1/20/84

TAMPA, FL

A/C Reg. No. N8852E

Time (Lc1) - 1715 EST

Occurrence

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation CRUISE - NORMAL

Finding(s)

1. DOOR, INSPECTION - SEPARATION

- 2. MAINTENANCE, INSTALLATION IMPROPER COMPANY MAINTENANCE PSNL
- 3. FUEL SYSTEM OVERLOAD
- 4. FUEL SYSTEM, TANK SIPHONING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s') of this incident is/are finding(s) 1,2

Factor(s) relating to this incident is/are finding(s) 4

File No 5051	1/21/84 TAMPA,FL	Α/	C Reg. No. N401E	A	ime (Lc1) -	1005 EST	
Basic Information Type Operating Certifi Name of Carrier Type of Operation Flight Conducted Under Incident Occurred Duri	-EASTERN AIRLINES -SCHEDULED,DOMEST -14 CFR 121	INC. MIN	•	Fatal Crew O Pass O	Injur Serious O O	ies Minor O O	None 5 28
Aircraft Information Make/Model - DOUGLA Landing Gear - TRICYO Max Gross Wt - 122000 No. of Seats - 127	S DC-9-51 CLE-RETRACTABLE)	Number Engines - Engine Type -	- P&W JT8D-17 - 2 - TURBOFAN - 16000 LBS THRU	S	Installed/A tall Warnin		
Environment/Operations I Weather Data Wx Briefing - COMP Method - UNK/ Completeness - UNK/ Basic Weather - VMC Wind Dir/Speed- 020/ Visibility - 1 Lowest Sky/Clouds - Lowest Ceiling Obstructions to Visi Precipitation Condition of Light	PANY YNR YNR YO17 KTS D.O SM - 1100 FT THIN BKN - 3000 FT OVERCAST ONNE - NONE		lan - IFR	OFF Al Airport [Runway Runway Runway Runway	/ Ident - / Lth/Wid - / Surface -	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating ATP ME LAND	g(s) Age	e - UNK/NR ennial Flight Review Current - UNW Months Since - UNW Aircraft Type - UNW	<pre>(/NR Total </pre> <pre>K/NR Make/Mod </pre> <pre>K/NR Instrume</pre>	ificate - UNK/N Flight Time (H - 8952 Hel- 1023 nt- UNK/NR g - UNK/NR	lours) Last 24 Last 30 Last 90	Hrs - Days- UN Days- UN	
Instrument Rating((s) - AIRPLANE						
WHILE CLIMBING AFTER TAKEOFF TO 1.74 EPR. SHORTLY AFTER 14000 FT, THERE WAS A LOUD EXTHE RIGHT ENG, RETURNED TO 1 SIDE OF THE ENG TAILPIPE. TE (CIRCUMFERENTIAL) PIECE OF FAXIAL ALIGNMENT WITH A GAP AIR CAUSED COKING OF THE OIL BEARING SEALS WERE DAMAGED.	THAT, THE 1ST OFFICER (PLOSIVE TYPE NOISE FR IAMPA & LANDED WITHOUT EARDOWN REVEALED THAT EARD SURFACE PLATING N IN THE REAR PISTON RIN L. THE TURBINE SHAFT N	NOTED THAT THE AVM OR OM THE REAR OF THE AVENTHER INCIDENT. AT THE HIGH PRESSURE COMMISSING FROM THE OUTSING REITHER RING COMMISSING FAILED APRX 13 IN	ON THE #2 ENG WAS ACFT AS THE RIGHT AN EXAM REVEALED OMPRESSOR CENTER SIDE DIAMETER SEA FORMED TO DESIGN NCHES FORWARD OF	AT THE MAX INE ENG LOST POWER THAT TURBINE BU TUBE SEALING RI LING SURFACE. I SPECS. THERE WA THE 4-1/2 BEAR	DICATION. AT R. THE CREW LADES HAD EX ING HAD AN A THIS FAILURE AS EVIDENCE ING. THE 4-1	ABOUT SECURED SITED THE APRX 1 IN WAS IN THAT HOT	

File No. - 5051 1/21/84 TAMPA,FL A/C Reg. No. N401EA Time (Lc1) - 1005 EST

Occurrence LOSS OF POWER(TOTAL) - MECH FAILURE/MALFUNCTION Phase of Operation CLIMB - TO CRUISE

Finding(s)

- 1. TURBINE ASSEMBLY, SEAL IMPROPER
- 2. MAINTENANCE, REPLACEMENT IMPROPER -
- 3. TURBINE ASSEMBLY, SEAL FAILURE, PARTIAL
- 4. TURBINE ASSEMBLY, SEAL LEAK
- 5. FLUID, OIL OVERTEMPERATURE
- 6. LUBRICATING SYSTEM BLOCKED(PARTIAL)
- 7. TURBINE ASSEMBLY, SHAFT FAILURE, TOTAL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,3,4

File No 5012 2/10/84 W	EST PALM BEACH,FL A/C F	Reg. No. N2969	Т	ime (Lc1) -	1150 EST	
Basic Information Type Operating Certificate-COMMUTER		ft Damage		Injur	ies	
Name of Carrier -CHALKS I	NTERNATIONAL AIRL NONE	_	Fata1	Serious	Minor	None
Type of Operation -SCHEDULE		Cre	w 0	0	0	2
Flight Conducted Under -14 CFR 1	35 NONE	Pas	s 0	0	0	12
Incident Occurred During -DESCENT						
Aircraft Information						
Make/Model - GRUMMAN G-73	Eng Make/Model - P&	%W PT6A-36		Installed/A		
Landing Gear - TRICYCLE-RETRACTABL	E Number Engines - 2	2	S	itall Warnin	g System	- YES
Max Gross Wt - 14000	Engine Type - Tl					
No. of Seats - 19	Rated Power -	750 LBS THRUST				
Environment/Operations Information		· · · · · · · · · · · · · · · · · · ·				
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS	Last Departure Poin	t	OFF AI	RPORT/STRIP		
Method - TELEPHONE	NASSAU					
Completeness - WEATHER NOT PERTI	NENT Destination		Airport D	ata		
Basic Weather - VMC	PALM BEACH,FL		WEST P	ALM BEACH I	NT'L	
Wind Dir/Speed- 100/012 KTS			Runway	Ident -	N/A	
Visibility - 7.0 SM	ATC/Airspace		Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - 2500 FT			Runway	Surface -	N/A	
Lowest Ceiling - NONE	Type of Clearance	- VFR	Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- UNK/NR				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 30	Medical Certific			WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review Current - UNK/N	Flig	ght Time (H	lours)		
ATP,CFI		R Total -	4000	Last 24		
SE LAND, ME LAND	Months Since - UNK/N		2000	Last 30	Days- UN	K/NR
	Aircraft Type - UNK/N	R Instrument- Multi-Eng -	JNK/NR	Last 90	Days-	250
		Multi-Eng - 1	JNK/NR	Rotorcr	aft - UN	K/NR
Instrument Rating(s) - AIRPLAN	E					
Nanna+iva						
Narrative	C ENCOUNTEDED EXTREME MOUNTAIN	C AND VIRBATIONS O	E CONTROL C	OLUMN AND T	ATI	
E ACFT EXPERIENCED AN ELEVATOR TRIM LOS CTION FLUTTERING WHILE ON DESCENT TO PA						
				THE ACTUAL	UK	
AFT FAILED AT A RIVET HOLE ALLOWING THE	ACTUATUR TO DISCUNNECT FROM IT	HE IKIM IAB SHAFI	ASSEMBLY.			

File No 501	2 2/10/84	WEST PALM BEACH, FL	A/C Reg. No. N2969	Time (Lc1) - 1150 EST	
Occurrence Phase of Operation	AIRFRAME/COMPONEN	MT/SYSTEM FAILURE/MALFUNG	CTION		
Finding(s) 1. FLT CONTROL SYST 2. FLIGHT CONTROL,E	•	ROL(TRIM) - FAILURE,TOTA	AL		
Probable Cause	-				

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5013 2/11/84 OPA	LOCKA, FL A/	C Reg. No. N	19707Y	Т	ime (Lc1) -	1730 EST	Γ
-Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION) Airc	raft Damage			Injur		
	MIN	IOR		Fata1	Serious	Minor	None
Type of Operation -PERSONAL	Fire		Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NON	IE	Pass	0	0	0	2
Incident Occurred During -LANDING							
-Aircraft Information					_		
Make/Model - BEECH 95-A55	Eng Make/Model -		IO-470-L		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines -			S	tall Warnin	g System	- YES
Max Gross Wt - 4880	Engine Type -		INJECTED				
No. of Seats - 6	Rated Power -	260 HP					
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEFIN				ON AIR	PORT		
Method - N/A	GRT HARBOUR CAY	,					
Completeness - N/A	Destination			Airport D			
Basic Weather - VMC	OPA LOCKA,FL			OPA-LO			
Wind Dir/Speed- 100/008 KTS						18L	
Visibility - 10.0 SM	ATC/Airspace				Lth/Wid -		244
Lowest Sky/Clouds - 2000 FT SCA					Surface -		
Lowest Ceiling - 10000 FT BRO			DATTERN	Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- IRAFFIC	PATTERN				
Precipitation - NONE Condition of Light - DAYLIGHT							
Condition of Light - DAYLIGHT			. -				
Personnel Information Pilot-In-Command	A 50	M11	04151-04	- VAL TO	MEDICAL-WA	TVEDC // T/	MTT
Certificate(s)/Rating(s)	Age - 50 Biennial Flight Review			t Time (H		IVERS/LII	MII
COMMERCIAL	Current - UNK		.1 - UN			Hrs - Ul	NIZ /NID
SE LAND.ME LAND.SE SEA	Months Since - UNK	(/NR Make		IV /ND	1 2 2 + 20	Dave- 11	MV /ND
SE LAND, ME LAND, SE SEA	Aircraft Type - UNK	MAKE MAKE	rument- UN	IK/ND	last 90	Days U	NK/ND
	Arricial Crype Give		i-Eng - UN	IK/NR	Last 90 Rotorcr	aft - U	NK/NR
		Mari	i, chg or	,		u	,
Instrument Rating(s) - AIRPLANE							
This (I dillett Rating(3) AIRI LANE							
	ANDING GEAR RETRACTED WHE	N THE LT MAT	N GEAR COL	ILD NOT BE	EXTENDED.		
						:D	
	RING WHICH PULLS THE LT MA	IN GEAR UPLO	CK OUT OF	THE WAY W		D	

2/11/84 File No. - 5013 OPA LOCKA, FL A/C Reg. No. N9707Y Time (Lc1) - 1730 EST AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #1 Phase of Operation APPROACH - VFR PATTERN - DOWNWIND Finding(s) 1. LANDING GEAR, GEAR LOCKING MECHANISM - CORRODED 2. LANDING GEAR, GEAR LOCKING MECHANISM - FAILURE, PARTIAL 3. MAINTENANCE, INSPECTION OF AIRCRAFT - IMPROPER - OTHER MAINTENANCE PSNL 4. LANDING GEAR, MAIN GEAR - JAMMED Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. WHEELS UP LANDING - INTENTIONAL - PILOT IN COMMAND ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident

The National Transportation Safety Board determines that the Probable Cause(s) of this incidential is/are finding(s) 1,2,3,4

Basic Information Type Operating Certificate-COMMUTER		Aircraft	Damage		Injur	ies	
Name of Carrier -CHALK'S INT	'L AIRLINE INC	MINOR	Dallage	Fatal	Serious	Minor	None
Type of Operation -SCHEDULED,D	OMESTIC, PAX/CARGO	Fire	Cre		0	0	2
Flight Conducted Under -14 CFR 135		NONE	Pas	ss O	0	0	17
Incident Occurred During -TAXI							
Aircraft Information							
Make/Model - GRUMMAN G-73T	Eng Make/M		PT6A-34		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng			ς	itali Warnir	ng System	- YES
Max Gross Wt - 31365.	Engine Typ						
No. of Seats - 17	Rated Powe	r - 	750 HP 				
Environment/Operations Information							
Weather Data	Itinerary	5			Proximity		
Wx Briefing - NO RECORD OF BRIEFIN Method - N/A				ON AIR	STRIP		
Method - N/A Completeness - N/A	WATSON IS Destination	LAND, FL		Admmont F			
Basic Weather - VMC	FT LAUDER	DALE EL		Airport [UDERDALE		
Wind Dir/Speed- 330/015 KTS	FI LAUDER	DALE, FL			/ Ident -	27	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid -		100
Lowest Sky/Clouds - CLEAR	Type of Fli	ght Plan -	VFR		Surface -		,00
Lowest Ceiling - NONE	Type of Cle				Status -		
Obstructions to Vision- NONE	Type Apch/L	ndg -	TRAFFIC PATTER	N			
Precipitation - NONE		_					
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 31		Medical Certific			WAIVERS,	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight R	eview	F1:	ight Time (F			
COMMERCIAL, ATP	Current	- UNK/NR				Hrs - U	
SE LAND, ME LAND, SE SEA, ME SEA	Months Since		Make/Model- Instrument-	3300	Last 30	Days- U	NK/NR
	Aircraft Type	- UNK/NR	Instrument- Multi-Eng -	UNK/NR	Last 90	aft - U	NK/NK
			Multi-Eng -	UNK/ NK	ROTOFCE	art - U	NK/ NK
Instrument Rating(s) - AIRPLANE							
Narrative							
R 2 UNSUCCESSFUL ATTEMPTS TO "RAMP" THE	ACFT, PLT TOOK OFF	AGAIN AND	FLEW TO FT. LAUL	DERDALE. FLY	-BY DISCLOS	ED	
OSE LANDING WHEEL WAS PRESENT. PLT MADE							

File No. - 5049 4/17/84 FT. LAUDERDALE, FL A/C Reg. No. N2969 Time (Lc1) - 1553 EST Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation TAXI Finding(s) 1. OBJECT - SUBMERGED OBJECT 2. LANDING GEAR, NOSE GEAR - OVERLOAD Occurrence #2 NOSE GEAR COLLAPSED Phase of Operation LANDING ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s)

Factor(s) relating to this incident is/are finding(s) 1

File No 5026 5/04/8	4 MIMMI,FL	A/C	Reg. N	o. N132EM	•	Time (Lc1)	- 1500 (DT
Basic Information Type Operating Certificate-ON	-DEMAND AIR TAXI	Aircra	ift Dam	age		Inju	ries	
		MINOR	?	-	Fata1	Serious	Mino	n None
	ST FLIGHT	Fire		Crew	-	0	0	2
Flight Conducted Under -14 Incident Occurred During -DE	CFR 91 SCENT	NONE		Pass	0	0	0	0
Aircraft Information								
Make/Model - EMBRAER EMB-1	10P1	Eng Make/Mode1 - P		A-34		Installed/		
Landing Gear - TRICYCLE-RETR	ACTABLE	Number Engines -			:	Stall Warni	ng Syst	em - YES
Max Gross Wt - 13007		9 7,	URBOPE					
No. of Seats - 21		Rated Power -	750	HP				
Environment/Operations Informat	ion				·		- -	
Weather Data		tinerary				Proximity		
Wx Briefing - UNK/NR		Last Departure Poin	nt		OFF A	IRPORT/STRI	P	
Method - TELETYPE		SAME AS ACC/INC						
Completeness - FULL	C	Destination			Airport	Data		
Basic Weather - VMC		LOCAL			_			
Wind Dir/Speed- 170/008 KTS		4				•	- N/A	
Visibility - 9.0 SM		C/Airspace					- N/A	
		Type of Flight Plan					- N/A	
Lowest Ceiling - 120 Obstructions to Vision- NON		Type of Clearance	- VFR		Runwa	y Status	- N/A	
Precipitation - NON		Type Apch/Lndg	- UNK	/NK				
Condition of Light - DAY	=							
Personnel Information	_							/
Pilot-In-Command	Age -	29	Mea	cal Certifica			O MYIAF	K2/LIMII
Certificate(s)/Rating(s)		lal Flight Review			tht Time (4 11	
COMMERCIAL, ATP		urrent - YES		Total - Make/Model-			4 Hrs - O Davs-	
SE LAND, ME LAND, SE SEA, ME		onths Since - 5 Ircraft Type - UNK/N		Instrument-			O Days- O Days-	
	A,	ircraft Type - UNK/N	NK	Multi-Eng -		Last	U Days-	200
Instrument Rating(s) - A	IRPLANE							
Narrative								
HE PLT REPORTED THAT DURING A DESC ATERAL GUST. HE STATED THAT THIS C BUT THE ACFT HAD GOTTEN IN A 20 DEG BINOR DAMAGE WAS NOTED TO THE RIGHT NBOARD GEAR DOOR.	AUSED THE ACFT TO NOSE LOW ATTITUD	O ROLL INTO ABOUT A DE & EXCEEDED THE TH	70 DEC	BANK. HE INI LINE SPEED BY	TIATED A	RECOVERY, AFTER LANDI	NG,	
NOUNTO GEAR DOOK.								

File No. - 5026 5/04/84 MIAMI,FL A/C Reg. No. N132EM Time (Lc1) - 1500 EDT

Occurrence Phase of Operation

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

DESCENT

Finding(s)

1. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND

2. WEATHER CONDITION - TURBULENCE

3. DESIGN STRESS LIMITS OF AIRCRAFT - EXCEEDED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,3

Factor(s) relating to this incident is/are finding(s) 2

File No 5032 6/03/84 FT.L/ 		No. N724DA		Time (Lc1) - 1105 EDT			
Type Operating Certificate-AIR CARRIER	- FLAG/DOMESTIC	Aircraft Da	amage		Injur		
Name of Carrier -DELTA AIRLIN Type of Operation -SCHEDULED,DO	MESTIC DAY/CARCO	MINOR Fire	Cma	Fatal O	Serious	Minor O	None 15
Flight Conducted Under -14 CFR 121	MESTIC, PAX/ CARGO	NONE	Crev Pass		0	ŏ	96
Incident Occurred During -LANDING ·							
Aircraft Information							
Make/Model - LOCKHEED L-1011 Landing Gear - TRICYCLE-RETRACTABLE	Eng Make/M Number Eng		ROYCE 211-22B		Installed/A tall Warnin		
Max Gross Wt - 430000	Engine Type		: AN	3	tali warnin	g System	- 165
No. of Seats - UNK/NR	Rated Powe						
-Environment/Operations Information	******						
Weather Data	Itinerary				Proximity		
Wx Briefing - COMPANY Method - IN PERSON	Last Depart NEW YORK,			ON AIR	PORT		
Completeness - WEATHER NOT PERTINENT		NI		Airport D	ata		
Basic Weather - VMC	FT.LAUDER	DALE,FL			UDERDALE IN	т	
Wind Dir/Speed- 080/004 KTS						09L	
Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR	ATC/Airspace	71	-n		Lth/Wid - Surface -		150
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Flig	gnt Plan - II arance - II		•	-	DRY	
Obstructions to Vision- NONE	Type Apch/L		SUAL	Kuriway	Status		
Precipitation - NONE	• • • • • • • • • • • • • • • • • • • •	F	JLL STOP				
Condition of Light - DAYLIGHT							
-Personnel Information Pilot-In-Command	Age - UNK/NR	Med	dical Certifica	te - UNK/N	R		
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight R	eview	Flig	ht Time (H			
ATP	Current	- UNK/NR	Total - l			Hrs - UN	
	Months Since Aircraft Type		Make/Model- l Instrument- l			Days- UN	
-	All Chart Type	- UNK/NK	Multi-Eng - l			aft - UN	
Instrument Rating(s) - AIRPLANE							
-Narrative							
ACFT LOST ENG COWLING COMPONENTS DURING	HE LANDING ROLL. I	NVESTIGATION	REVEALED THAT	ON THE PRE	VIOUS DAY		
HANICS HAD REMOVED THE #3 ENG LEFT & RIGHT		G & REPLACED	THE IGNITER PL	UGS. THE #	3 ENG LEFT	GAS	
ERATOR COMPRESSOR FAIRING WAS NOT LOCATED.							

File No. - 5032 6/03/84 FT.LAUDERDALE,FL A/C Reg. No. N724DA Time (Lc1) - 1105 EDT

Occurrence AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation LANDING - ROLL

Finding(s)

1. UNDETERMINED

2. FUSELAGE, FAIRING - SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Basic Information Type Operating Certificate-COMMUTER	A I C	. D		*		
Type operating certificate-commuter	MINOR	t Damage	Fatal	Injur Serious		None
Type of Operation -POSITIONING	Fire	Crev		0	0	3
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Incident Occurred During -LANDING						
-Aircraft Information						
Make/Model - GRUMMAN G-111	Eng Make/Model - WRI	IGHT R-1820-82	ELT	Installed/A	ctivated	- YES/N
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 2	TERROLLETING GARRIE	S	tall Warning	g System	- YES
Max Gross Wt - 31365 No. of Seats - 28	Engine Type - RE(Rated Power -		ETUR			
No. or seats - 28	Rated Power -	14/5 HP 				
-Environment/Operations Information			4			
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Point FT.LAUDERDALE.FL		ON AIR	SIKIP		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	WEST PALM BEACH, FL			ALM BEACH		
Wind Dir/Speed- 260/004 KTS	·		Runway	Ident -	09	
Visibility - 7.0 SM	ATC/Airspace			Lth/Wid -		150
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	FULL STOP				
Condition of Light - DAYLIGHT		1022 3101				
Pilot-In-Command	Age - 37	Medical Certifica	te - VALID	MEDICAL-NO	WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Age - 37 Biennial Flight Review	Flig	ht Time (H	ours)		
ATP	Current - UNK/NR		6000	Last 24	Hrs - UN	K/NR
ME LAND, ME SEA	Months Since - UNK/NR Aircraft Type - UNK/NR	Make/Model- Instrument- l	2000	Last 30	Days- UN	IK/NR
	Aircraft Type - UNK/NR	Multi-Eng - l	INK/NK INK/ND	Potoron	Days- UN aft - IIN	IK/NK IK/ND
		Marti Liig (MAKY MIK	KO COI CI	are on	IN IN
Instrument Rating(s) - AIRPLANE						
ER A REPOSITIONING FLT, THE MAIN GEAR COLL	APSED. AN EXAM OF THE HAND F	PUMP SELECTOR CONT	ROL VALVE	REVEALED		
ONE OF THE TWO DUMP PORTS FOR THE FLAP P					SURF	

File No. - 5024 6/03/84 WEST PALM BEACH, FL A/C Reg. No. N112FB Time (Lc1) - 0813 EDT

Occurrence GEAR COLLAPSED Phase of Operation TAXI - FROM LANDING

Finding(s)

1. HYDRAULIC SYSTEM - LEAK
2. LANDING GEAR, NORMAL RETRACTION/EXTENSION ASSEMBLY - ERRATIC

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

Brief of Accident/Incident

File No 6007 7/24/84 KEY	WEST,FL	A/C Reg. No.	XAPIK	Time (Lc1)	- 1335 ED	т
Basic Information Type Operating Certificate-AIR CARRIE Name of Carrier -AERONAVES Type of Operation -SCHEDULED, Flight Conducted Under -14 CFR 129 Acc/Inc Occurred During -DESCENT	DE MEXICO (AOMF INTL,PAX/CARGO	Aircraft Damag NONE Fire NONE		Ing atal Serious O O O 1	Juries s Minor 4 4	None 4 141
Aircraft Information Make/Model - MCDONNELL DOUGLAS DC- Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 278000 No. of Seats - 152	8-51 Eng Make/Mo Number Engi Engine Type Rated Power	- TURBOFAN	313	ELT Installed Stall Warr	d/Activated ning System	•
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 060/017 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 1000 FT SC Lowest Ceiling - 1500 FT BR Obstructions to Vision- NONE Precipitation - RAIN SHOWER Condition of Light - DAYLIGHT	Type Apch/Lr	yht Plan - IFR urance - IFR	Air I	rport Proximity OFF AIRPORT/STE port Data UNKNOWN Runway Ident Runway Lth/Wid Runway Surface Runway Status	- N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE	Age - 49 Biennial Flight Re Current Months Since Aircraft Type	eview - UNK/NR To - UNK/NR Ma - UNK/NR In	1 Certificate - Flight T tal - 14000 ke/Model- UNK/NI strument- UNK/NI lti-Eng - UNK/NI	ime (Hours) C Last R Last R Last	24 Hrs - UI 30 Days- UI 90 Days- UI craft - UI	NK/NR NK/NR
THE CAPTAIN REPORTED THAT THE SEAT BELT SIGNOWN KEY WEST, THE FLT BEGAN A DESCENT FROM SEVERE TURBULENCE. AT THAT TIME, THE AIRSPESUFFERED A SERIOUS INJURY, 4 PASSENGERS & 4 MIAMI INTL ARPT & LANDED WITHOUT FURTHER IN ALONG THE ROUTE. THERE WAS A CONVECTIVE SIGNOWN STATED THAT NO PREVIOUS ANNOUNCEMENTS WERE INJURIES OCCURRED WHEN OCCUPANTS WERE THROW	I FL37O. WHILE DESCEND ED WAS 27O KTS & THE FLT ATTENDANTS RECEI GIDENT. A WX STUDY RE MET FOR AN AREA OF TH MADE TO WARN THEM OF	DING THRU ABOUT ACFT WAS PASSIN VED MINOR INJUE VEALED A LARGE HUNDERSTORMS WIT POSSIBLE TURBUL	11,500 FT, THE A G THRU A CUMULUS IES. THE FLT CRI AREA OF LEVEL 2 H TOPS TO 45,000 ENCE, EXCEPT FOI	ACFT ENCOUNTERE S CLOUD. ONE PA EW CONTINUED TO TO LEVEL 5 THL O FT. THE PASSE	ED ASSENGER) JNDERSTORMS ENGERS	·

Brief of Accident/Incident (Continued)

File No. - 6007

7/24/84

KEY WEST, FL

A/C Reg. No. XAPIK

Time (Lc1) - 1335 EDT

Occurrence

IN FLIGHT ENCOUNTER WITH WEATHER

Phase of Operation DESCENT - NORMAL

Finding(s)

- 1. WEATHER CONDITION THUNDERSTORM
- 2. FLIGHT INTO KNOWN ADVERSE WEATHER CONTINUED PILOT IN COMMAND
- 3. PASSENGER BRIEFING INADEQUATE PILOT IN COMMAND
- 4. SEAT BELT SIGN CONTINUED PILOT IN COMMAND
- 5. SEAT BELT IMPROPER USE OF -
- 6. WEATHER CONDITION TURBULENCE (THUNDERSTORMS)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident is/are finding(s) 3.5

Factor(s) relating to this incident is/are finding(s) 1,2,6

Basic Information Type Operating Certificate-NONE (0	ng Certificate-NONE (GENERAL AVIATION) Aircraft Damage			Injurtes				
	,	MINOR		Fatal	Serious		None	
Type of Operation -PERSONA	-	Fire	Crew	-	0	0		
Flight Conducted Under -14 CFR		NONE	Pass	o	0	0	0	
Incident Occurred During -LANDING	i 							
Aircraft Information								
Make/Model - MOONEY M20F		Model - LYCOM:	ING IO-360				ed - YES/Y	
Landing Gear - TRICYCLE-RETRACTAE		igines - 1		S.	tall Warn	ing Syste	em - YES	
Max Gross Wt - 2740 No. of Seats - 4	Engine Ty		-FUEL INJECTED					
No. of Seats - 4	Rated Pow	er - 180) HP					
Environment/Operations Information								
Weather Data	Itinerary			Airport I				
Wx Briefing - NWS	Last Depar			ON AIR	PORT			
Method - UNK/NR	FT.MYERS							
Completeness - UNK/NR	Destination			Airport Da				
Basic Weather - VMC	SAME AS	ACC/INC		KISSIM				
Wind Dir/Speed- 360/005 KTS Visibility - 10.0 SM	ATC/Airspace				Ident	- 24 - 5000,	/ 100	
Lowest Sky/Clouds - UNK/NR		: Ight Plan - No	ONE		Surface	- ASPHAI		
Lowest Ceiling - 3100 F1		earance - N			Status	- DRY	- •	
Obstructions to Vision- NONE	Type Apch/		JLL STOP	· · · · · · · · · · · · · · · · · · ·	0 14 140	O.C.		
Precipitation - NONE	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Condition of Light - DAYLIGHT	Ţ							
 Personnel Information								
Pilot-In-Command	Age - 37		dical Certifica			WAIVERS/	LIMIT	
Certificate(s)/Rating(s)	Biennial Flight			ht Time (H				
PRIVATE	Current	- YES	Total -			24 Hrs -		
SE LAND	Months Since	- 17	Make/Model-			30 Days-		
	Aircraft lyp	e - UNK/NR	Instrument-	45	Last	90 Days-	30	
Instrument Rating(s) - NONE						x.		
Narrative								
RDING TO THE PLT, THE ACFT ENCOUNTER								
AGAIN. SUBSEQUENTLY, THE ACFT OVER!	RAN THE END OF THE RWY	& WAS DAMAGED	. THE PLT REPOR	TED THAT T	HERE WAS	A		

File No. - 5073 8/07/84 KISSIMMEE,FL A/C Reg. No. N3420N Time (Lc1) - 1600 EDT Occurrence #1 OVERRUN Phase of Operation LANDING - ROLL

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. WEATHER CONDITION THUNDERSTORM
- 3. WEATHER CONDITION UNFAVORABLE WIND
- 4. WEATHER CONDITION GUSTS
- 5. DISTANCE MISJUDGED PILOT IN COMMAND
- 6. AIRSPEED MISJUDGED PILOT IN COMMAND
- 7. PROPER TOUCHDOWN POINT EXCEEDED PILOT IN COMMAND
- 8. GO-AROUND NOT POSSIBLE PILOT IN COMMAND

ON GROUND COLLISION WITH TERRAIN Occurrence #2 Phase of Operation LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 5,6

Factor(s) relating to this incident is/are finding(s) 1,2,3,4

File No 5047 8/	8/25/84 ORLANDO,FL A/C Reg.			11EA	Т	ime (Lc1) -	1) - 1828 EDT		
-Basic Information									
Type Operating Certificate	e-AIR CARRIER - FLAC	JOMESTIC A1	rcraft Damage			Injur			
Name of Carrier	-EASTERN AIRLINES	(EALA) M	INOR		Fatal	Serious	Minor	None	
Type of Operation Flight Conducted Under	-SCHEDULED, DOMESTIC	PASSENGER F1	re	Crew	0	0	0	5	
		N	ONE	Pass	0	0	0	91	
Incident Occurred During	-TAKEOFF								
-Aircraft Information									
	DOUGLAS DC-9-51	Eng Make/Model				Installed/A			
Landing Gear - TRICYCLE-	RETRACTABLE	Number Engines			S	tall Warnin	g System	- YES	
Max Gross Wt - 121000		Engine Type							
No. of Seats - 139		Rated Power	- UNK/NR						
-Environment/Operations Info	rmation								
Weather Data		Itinerary				Proximity			
Wx Briefing - COMPANY		Last Departure	Point		ON AIR	PORT			
Method - IN PERS	DN	ORLANDO,FL							
Completeness - FULL		Destination		Α	irport D				
Basic Weather - VMC		HARTFORD,CT			ORLAND				
Wind Dir/Speed- 060/007							18		
Visibility - 7.0		ATC/Airspace				Lth/Wid -		200	
Lowest Sky/Clouds -						Surface -			
	25000 FT OVERCAST				Runway	Status -	DRY		
Obstructions to Vision-		Type Apch/Lndg	- NONE						
	NONE								
Condition of Light -	DAYLIGHT								
-Personnel Information									
Pilot-In-Command	Age ·					WEDÍCAL-NO	WAIVERS/	LIMII	
Certificate(s)/Rating(s)		nial Flight Revie			Time (H	•		_	
ATP		Current - Y		- 14	- 4 -	Last 24	· · ·	3	
ME LAND		Months Since -		Model- 8	941	Last 30	Days- UN	•	
	•	Aircraft Type - D		ument- UNK	/NR /NR	Last 30 Last 90	Days-	45	
			Multi	-Eng - UNK	/ NR	ROTORCE	aft - UN	NK/NR	
Instrument Rating(s)	- AIRPLANE								
-Nonno+ivo									
-Narrative	OTH LEET MATELLANDS	NO OFAR TIRES FAT	LED TAKEDEE WA	CAPORTER	AND ACET	WAS STORRE	n		
T PRIOR TO V1 AND ROTATION B RWY. PAX & CREW DEPLANED WIT					AND ACF	WAS STUPPE	U		

File No. - 5047 8/25/84 ORLANDO,FL A/C Reg. No. N411EA Time (Lc1) - 1828 EDT

Occurrence AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

1. LANDING GEAR,TIRE - FAILURE,TOTAL
2. ABORTED TAKEOFF - PERFORMED - PILOT IN COMMAND
3. LANDING GEAR,TIRE - UNDETERMINED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3

Factor(s) relating to this incident is/are finding(s) 1

Basic InformationType Operating Certificate-NON	E (GENERAL AVIATION)	Aircraft Dan	nage		Injur	ies		
		MINOR		Fatal	Serious	Minor	None	
	SONAL	Fire	Crew	1	O	o	0	
Flight Conducted Under -14		NONE	Pass	0	0	0	1	
Incident Occurred During -LAN	D1NG 							
-Aircraft Information								
Make/Model - PIPER PA-28-16		ake/Model - LYCOMIN	NG 0-320-D3G		installed/A			
Landing Gear - TRICYCLE-FIXED					all Warning	g System	- YES	
Max Gross Wt - 2325		e Type - RECIPRO		R				
No. of Seats - 4	Rated	Power - 160	HP					
Environment/Operations Informati	on							
Weather Data	Itinerary	v	A	irport F	roximity			
Wx Briefing - FSS		eparture Point		ON AIRF				
Method - IN PERSON	ST.PI	ETERSBURG, FL						
Completeness - FULL	Destina [.]	tion	Airport Data					
Basic Weather - VMC	FT.L/	AUDERDALE,FL		DADE CO	LLIER			
Wind Dir/Speed- 120/009 KTS						UNK/NR		
Visibility - 8.0 SM	ATC/Airs			Runway	Lth/Wid -	10500/	150	
Lowest Sky/Clouds - 250	O FT THIN BKN Type of	f Flight Plan - IFF	₹	Runway	Surface -	ASPHALT		
Lowest Ceiling - 2500		f Clearance - IFF		Runway	Status -	DRY		
Obstructions to Vision- NONE	Type Ap	och/Lndg - TR/	AFFIC PATTERN					
Precipitation - NONE								
Condition of Light - DAYL	IGHT							
-Personnel Information	•							
Pilot-In-Command	Age - 66	Med [*]	ical Certificate	- VALID	MEDICAL-WA	IVERS/LIM	AIT	
Certificate(s)/Rating(s)	Biennial Flig	ght Review	Flight	Time (Ho	ours)			
PRIVATE	Current			81		Hrs - UM		
SE LAND	Months S	ince - UNK/NR	Make/Model - UNK/ Instrument - UNK/	NR	Last 30	Days- UN	NK/NR	
	Aircraft	Type - UNK/NR	Instrument- UNK/	NR				
			Multi-Eng - UNK/	NR	Rotorcr	aft - UN	NK/NR	
Instrument Rating(s) - AI	RPLANE							
Managatina								
-Narrative			C & BECAME TOTALL					

9/04/84 DADE COLLIER.FL A/C Reg. No. N8330G Time (Lc1) - 1200 EDT File No. - 5122 Occurrence #1 MISCELLANEOUS/OTHER Phase of Operation CRUISE - NORMAL Finding(s) 1. MISCELLANEOUS 2. INCAPACITATION(HEART ATTACK) - PILOT IN COMMAND 3. REMEDIAL ACTION - PERFORMED - PASSENGER Occurrence #2 NOSE GEAR COLLAPSED Phase of Operation LANDING Finding(s) 4. LANDING GEAR, NOSE GEAR - OVERLOAD 5. AIRCRAFT HANDLING - PERFORMED - UNQUALIFIED PERSON ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2

File No 5067 10/21/84 PALM	COAST,FL A/C R	eg. No. N8830V	٦	Time (Lc1) -	1830 EDT	-
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraf MINOR	t Damage	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Incident Occurred During -LANDING	Fire NONE	Cre Pas	ew O	0 0	0	1 0
-Aircraft Information Make/Model - BELLANCA 17-31A Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3000 No. of Seats - 4	Eng Make/Model - LY Number Engines - 1 Engine Type - RE Rated Power -		9	Installed/Ao Stall Warnin		
-Environment/Operations Information						
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Point TITUSVILLE.FL			Proximity IRPORT/STRIP		
Completeness - N/A Basic Weather - VMC	Destination COLLEGE PARK,MD		Airport [Data		
Wind Dir/Speed- 120/012 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 6000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	ATC/Airspace	- NONE	Runway Runway Runway	/ Lth/Wid - / Surface -		
Personnel Information Pilot-In-Command Gertificate(s)/Rating(s)	Age - 42 Biennial Flight Review	Medical Certific	cate - VALIC		IVERS/LIM	1T
COMMERCIAL SE LAND	Current - YES Months Since - 1 Aircraft Type - UNK/NR	Total -	96845 UNK/NR	Last 24 Last 30	Days- UN	IK/NR
Instrument Rating(s) - AIRPLANE						
Narrative E PLT STATED THAT WHILE IN CRUISE FLT, THE AD. DURING THE LANDING THE LT WING HIT A SI ATING UP.						

File No 50	57 10/21/84 	PALM COAST,FL	A/C Reg. No. N8830V	Time (Lcl) - 1830 EDT
Occurrence #1 Phase of Operation	LOSS OF POWER(PA	RTIAL) - MECH FAILURE/	MALF	
Finding(s) 1. IGNITION SYSTEM	,IGNITION COIL - 0	VERTEMPERATURE		
Occurrence #2 Phase of Operation		ION WITH OBJECT		
Finding(s) 2. PRECAUTIONARY LA	ANDING - PERFORMED	- PILOT IN COMMAND		
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

	File No 5061 10/22/84 ORL	ANDO, FL	A/C Reg.	No. N29144	т	ime (Lcl)	- 1715 EDT	•
Name of Carrièr								
Name of Carrièr	Type Operating Certificate-ON-DEMAND	AIR TAXI	Aircraft D	amage		Inju	ries	
Type of Operation -NON SCHED, DOMESTIC, PASSENGER Fire Crew 0 0 0 3 Incident Occurred During -LANDING NONE Pass 0 0 0 0 1 1 Incident Occurred During -LANDING NONE Pass 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 1 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 0 0 1 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Incident Occurred During -LANDING Pass 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Name of Carrier -OMNI FLIGH	IT AIRWAYS		•	Fatal			None
Flight Conducted Under	Type of Operation -NON SCHED.	DOMESTIC.PASSENGER		Crew				
Incident Occurred During -LANDING Aircraft Information						-	-	
Make/Model - MESSERSCHMITT B0-105				, 3.50		J		•
Landing Gear - SKID Max Gross Wt - 4629 No. of Seats - 4 Engine Type - TURBOSHAFT Rated Power - 420 HP	Aircraft Information							
Landing Gear - SKID Number Engines - 2 Stall Warning System - NO Max Gross Wt - 4629 Engine Type - TURBOSHAFT No. of Seats - 4 Rated Power - 420 HP	Make/Model - MESSERSCHMITT BO-105	Eng Make/	Model - ALLIS	ION 250-C20B	ELT	Installed/	Activated	- YES/YES
Max Gross Wt - 4629 No. of Seats - 4 No.								
No. of Seats - 4 Rated Power - 420 HP Environment/Operations Information Weather Data Wx Briefing - NO RECORD DF BRIEFING Method - N/A Basic Weather - VMC Wind Dir/Speed-110/007 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 3500 FT SCATTERED Type of Flight Plan - COMPANY (VFR) Lowest Sky/Clouds - 3500 FT SCATTERED Type of Flight Plan - COMPANY (VFR) Runway Status - DRY Dostructions to Vision-NONE Lowest Ceiling - NONE Condition of Light - DAYLIGHT Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) SE LAND, ME LAND Months Since - 1 Make/Model - 51 Make/Model - 51 Make/Model - 51 Material - 4563 Multi-Eng - 11 Rotocraft - 4440 Instrument Rating(s) - AIRPLANE, HELICOPTER Narrative E PURPOSE OF THE FLT WAS TO TRANSPORT A 76 VR OLD PATIENT, WHO WAS IN CRITICAL CONDITION. THE FLT WAS NORMAL WILL IT WAS ON FINAL APCH TO A 7TH FLOOR, ROOFTOP, MOSPITAL HELIPORT, DURING THE APCH, THE PLT ATTEMPTED TO CORRESS THE COLLECTIVE TO SLOW THE RATE OF DESCENT. HOWEVER, THE COLLECTIVE CONTROL WOULD NOT RAISE. THE PLT SA BALE TO KEEP THE HELICOPTER FIN EAN ANTENNA. AFTER THE INCIDENT. THE PLT NOTED THAT LAND HAD PLOY PER RAID FLOOR, RANTEN NA ANTENNA. AFTER THE INCIDENT, THE PLT NOTED THAT LAND HAD PLOY PER RAID HAD LODGED				SHAFT	•			
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING LESSURG,FL Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 110/007 KTS Usibility - 7.0 SM LOWest Sky/Clouds - 3500 FT SCATTERED Type of Flight Plan - COMPANY (VFR) LOWEST Sky/Clouds - 3500 FT SCATTERED Type of Flight Plan - COMPANY (VFR) Runway Jufant - N/A Lowest Ceiling - NONE Lowest Ceiling - NONE Lowest Ceiling - NONE Type of Clearance - NONE Condition of Light - DAYLIGHT Precipitation - NONE Condition of Light - DAYLIGHT Certificate(s)/Rating(s) COMMERCIAL, ATP - Current - YES SE LAND, ME LAND Months Since - 1 Months Since - 1 Months Since - 1 Make/Model - 51 Last 30 Days- UNK/NR HELICOPTER Aircraft Type - B0-105 Multi-Eng - 11 Rotorcraft - 4440 Instrument Rating(s) - AIRPLANE, HELICOPTER Narrative LE PURPOSE OF THE FLT WAS TO TRANSPORT A 76 YR OLD PATIENT, WHO WAS IN CRITICAL CONDITION. THE FLT WAS NORMAL WITH AND HELICOPTER ABIC DAYLOR OF THE FLT WAS TO TRANSPORT A 76 YR OLD PATIENT, WHO WAS IN CRITICAL CONDITION. THE FLT WAS NORMAL WILL IT WAS ON FINAL APCH TO A 77H FLOOR, ROOFTOP, HOSPITAL HELIPORT. DURING THE APCH, THE PLT ATTEMPTED TO WCREASE THE COLLECTIVE TO SLOW THE RATE OF DESCENT. HOWEVER, THE COLLECTIVE CONTROL WOULD NOT RAISE. THE PLT SABLE TO KEEP THE HELICOPTER FROM HITTING THE SIDE OF THE BULLDING, BUT SUBSCIDENTLY LANDED HARD ON A LOWER DOFTOP AT THE 2ND FLOOR LEVEL. THERE WAS MINOR DAMAGE TO THE SKID CROSSTOWERS, TAIL ROTOR, TAIL BOOM, LEFT DICTORNAL AFTER THE INCIDENT, THE PLT NOTED THAT A HADD HELD TYPE RADIO HAD LODGED				-				
Westher Data Westhering - NO RECORD OF BRIEFING Wethod - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 10/007 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 3500 FT SCATTERED Type of Flight Plan - COMPANY (VFR) Precipitation - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 35 COMMERCIAL, ATP - DAYLIGHT Commercial Size (S)/Rating(s) Elemental Flight Review Completeness - N/A Airport Data Airport Data ORLANDO, FL Runway Ident - N/A Runway Lth/wid - N/A Runway Surface - CONCRETE Runway Surface - CONCRETE Runway Surface - CONCRETE Runway Status - DRY Runway Status - DRY FULL STOP FORCED LANDING Personnel Information Pilot-In-Command Age - 35 COMMERCIAL, ATP Current - YES SE LAND, ME LAND Months Since - i Make/Model- 51 Last 30 Days- 45 Multi-Eng - 11 Rotorcraft - 4440 Instrument Rating(s) - AIRPLANE, HELICOPTER Narrative EP PURPOSE OF THE FLT WAS TO TRANSPORT A 76 YR OLD PATIENT, WHO WAS IN CRITICAL CONDITION. THE FLT WAS NORMAL ITIL IT WAS ON FINAL APCH TO A 7TH FLOOR, RODSTOP, HOSPITAL HELIPORT, DURING THE APCH, THE PLT ATTEMPTED TO INCREASE THE COLLECTIVE TO SLOW THE RATE OF DESCENT. HOWEVER, THE COLLECTIVE CONTROL WOULD NOT RAISE. THE PLT SEE LOND, ME LAND HEAT OF DESCENT. HOWEVER, THE COLLECTIVE CONTROL WOULD NOT RAISE. THE PLT SABLE TO KEEP THE HELICOPTER FROM HITTING THE SIDE OF THE BUILDING, BUT SUBSEQUENTLY LANDED HARD ON A LOWER IDETOR AT THE 2ND FLOOR LEVEL. THERE WAS MINNOR DAMAGE TO THE SKID CROSSTUBES, TAIL ROTOR, TAIL BOOM, LEFT RIPORTOR OF THE AND HOUSE THE NOTED THAT A HAND HELD TYPE RADIO HAD LODGED	Environment/Operations Information							
Wx Briefing - NO RECORD OF BRIEFING Last Départure Point Method - N/A LESBURG,FL Destination ORLANDO,FL ORLAND		Itinerary			Airport	Proximity		
Method - N/A Destination ORLANDO,FL ORLANDO HELIPORT Completeness - N/A Destination ORLANDO,FL ORLANDO,FL ORLANDO,FL ORLANDO,FL ORLANDO HELIPORT Wind Dir/Speed - 10/007 KTS ATC/Airspace Runway Ident - N/A Lowest Sky/Clouds - 3500 FT SCATTERED Type of Flight Plan - COMPANY (VFR) Runway Surface - CONCRETE Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - STRAIGHT-IN Precipitation - NONE FULL STOP Condition of Light - DAYLIGHT FORCED LANDING Personnel Information Pilot-In-Command Age - 35 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Blennial Flight Review Flight Time (Hours) COMMERCIAL,ATP Current - YES Total - 4563 Last 24 Hrs - 2 SE LAND, ME LAND Months Since - 1 Make/Model- 51 Last 30 Days UNK/NR HELICOPTER Aircraft Type - BO-105 Instrument 107 Last 90 Days - 45 Multi-Eng - 11 Rotorcraft - 4440 Instrument Rating(s) - AIRPLANE,HELICOPTER Narrative E PURPOSE OF THE FLT WAS TO TRANSPORT A 76 YR OLD PATIENT, WHO WAS IN CRITICAL CONDITION. THE FLT WAS NORMAL WILL IT WAS ON FINAL APCH TO A 7TH FLOOR, ROOFTOP, HOSPITAL HELIPORT. DURING THE APCH, THE PLT ATTEMPTED TO NOREAS THE COLLECTIVE TO SLOW THE RATE OF DESCENT. HOWEVER, THE COLLECTIVE CONTROL WOULD NOT RAISE. THE PLT SABLE TO KEEP THE HELICOPTER FROM HITTING THE SIDE OF THE BUILDING, BUT SUBSEQUENTLY LANDED HARD ON A LOWER 20FTOP AT THE 2ND FLOOR LEVEL. THERE WAS MINOR DAMAGE TO THE SKID CROSSTUBES, TAIL ROTOR, TAIL BOOM, LEFT RIZZONTAL STABLIZIZER FIN & AN ANTENNAL AFTER THE INCIDENT, THE PLOT NOTE OF THAT A HAND HELD TYPE RADIO HAD LODGED			ture Point				P	
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 110/007 KTS Wind Dir/Speed- 110/007 KTS ATC/Airspace Lowest Sky/Clouds - 3500 FT SCATTERED Type of Flight Plan - COMPANY (VFR) Lowest Sky/Clouds - 3500 FT SCATTERED Type of Flight Plan - COMPANY (VFR) Runway Status - DRY Obstructions to Vision- NONE Obstructions to Vision- NONE Type of Clearance - NONE Type of Clearance - NONE Type of Clearance - NONE FULL STOP FORCED LANDING Personnel Information Pilot-in-Command Certificate(s)/Rating(s) COMMERCIAL, ATP SE LAND, ME LAND Months Since - 1 Months Since - 1 Make/Model- 51 Last 30 Days- UNK/NR Aircraft Type - B0-105 Instrument Rating(s) - AIRPLANE, HELICOPTER Narrative E PURPOSE OF THE FLT WAS TO TRANSPORT A 76 YR OLD PATIENT, WHO WAS IN CRITICAL CONDITION. THE FLT WAS NORMAL WITL IT WAS ON FINAL APCH TO A 7TH FLOOR, ROOFTOP, HOSPITAL HELIPORT. DURING THE APCH, THE PLT ATTEMPTED TO NOREASE THE COLLECTIVE TO SLOW THE RATE OF DESCENT. HOWEVER, THE COLLECTIVE CONTROL WOULD NOT RAISE. THE PLT AS ABLE TO KEEP THE HELICOPTER FROM HITTING THE SIDE OF THE BUILDING, BUT SUBSEQUENTLY LANDED HARD ON A LOWER DOFTOP AT THE 2ND FLOOR LEVEL. THERE WAS MINOR DAWAGE TO THE SKID CROSSTUBES, TAIL ROTOR, TAIL BOOM, LEFT RIZDONTAL STABILIZER FIN & AN ANTENNAL AFTER THE INCIDENT, THE PLOT NOTE OF HATD AHAND HELD TYPE RADIO HAD LODGED					- · · · · · · · · · · · · · · · · · · ·	,	•	
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Visibility - 7.0 SM ATC/Airspace		OKEANDO,						
Lowest Ský/Clouds - 3500 FT SCATTERED Type of Flight Plan - COMPANY (VFR) Runway Surface - CONCRETE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - STRAIGHT-IN Precipitation - NONE FULL STOP FORCED LANDING Personnel Information Pilot-In-Command Age - 35 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL, ATP Current - YES Total - 4563 Last 24 Hrs - 2 SE LAND, ME LAND Months Since - 1 Make/Model- 51 Last 30 Days - UNK/NR HELICOPTER Aircraft Type - B0-105 Instrument- 107 Last 90 Days - 45 Multi-Eng - 11 Rotorcraft - 4440 Instrument Rating(s) - AIRPLANE, HELICOPTER Narrative HE PURPOSE OF THE FLT WAS TO TRANSPORT A 76 YR OLD PATIENT, WHO WAS IN CRITICAL CONDITION. THE FLT WAS NORMAL WILL IT WAS ON FINAL APCH TO A 7TH FLOOR, ROOFTOP, HOSPITAL HELIPOPT. DURING THE APCH, THE PLT ATTEMPTED TO CREASE THE COLLECTIVE TO SLOW THE RATE OF DESCENT. HOWEVER, THE COLLECTIVE CONTROL WOULD NOT RAISE. THE PLT SABLE TO KEEP THE HELICOPTER FROM HITTING THE SIDE OF THE BUILDING, BUT SUBSEQUENTLY LANDED HARD ON A LOWER DOFTOP AT THE 2ND FLOOR LEVEL. THERE WAS MINOR DAMAGE TO THE SKID CROSSTUBES, TAIL ROTOR, TAIL BOOM, LEFT THE INCIDENT, THE PLT NOTED THAT A HAND HELD TYPE RADIO HAD LODGED	, -•	ATC/Airspace						
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File No. - 5061 10/22/84 ORLANDO, FL A/C Reg. No. N29144 Time (Lc1) - 1715 EDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

1. ROTORCRAFT FLIGHT CONTROL, COLLECTIVE CONTROL - FOREIGN OBJECT

2. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND

3. CONTROL INTERFERENCE

Occurrence #2 HARD LANDING

Phase of Operation DESCENT - EMERGENCY

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,3

-Basic Information	TD TAY						
Type Operating Certificate-ON-DEMAND A	IR TAXI A1ro AIR SERVICE MIN	raft Damage		Fatal	Injur Serious		None
Name of Carrier -TOP FLIGHT Type of Operation -SCHEDULED,D	OMESTIC.CARGO Fire		Crew	0	0	0	1
Flight Conducted Under -14 CFR 135	NON		Pass	ŏ	ŏ	ŏ	ò
Incident Occurred During -LANDING - R		. <u>-</u>					
-Aircraft Information	/**						· /·
Make/Model - PIPER PA-60		LYCOMING 10-540	-G1B5		nstalled/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines -		OTED	51	tall Warnir	ig System	- YES
Max Gross Wt - 5500 No. of Seats - 6		RECIP-FUEL INJE	CIED				
NO. OF Seats - 6	Rated Power	290 ПР					
-Environment/Operations Information				_			
Weather Data	Itinerary		,		Proximity		
Wx Briefing - NO RECORD OF BRIEFIN		pint		ON AIR	ואטי		
Method - N/A Completeness - N/A	ORLANDO, FL			nnont De			
Basic Weather - VMC	Destination JACKSONVILLE.FL		А	rport Da	NVILLE INT	, I	
Wind Dir/Speed- CALM	UACKSUNVILLE, I	-				- 31	
Visibility - 7.0 SM	ATC/Airspace				Lth/Wid		150
	TTERED Type of Flight Pl	lan - NONE			Surface -		
Lowest Ceiling - NONE	Type of Clearance	- NONE				- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg			•			
Precipitation - NONE		FULL STOP					
Condition of Light - NIGHT(BRIGHT)						
-Personnel Information							
Pilot-In-Command	Age - 28	Medical Cert) WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review			Time (H			_
COMMERCIAL	Current - YES			_		4 Hrs -	5 "/ /ND
SE LAND, ME LAND	Months Since - 4			-		Days- UN	
	Aircraft Type - PA-	-60 Instrume Multi-En		270 354	Last 90	J Days-	371
		Muiti-En	g	334			
Instrument Rating(s) - AIRPLANE							
	LANDING DOLL AN EVAN OF		ANDING	CEAD STD	IT DEVEALE	 -	
T THE COLLAR HAD FAILED PERMITTING THE LO)
TIRE CAUSING IT TO FAIL. ACCORDING TO A							
TIRE CAUSING IT TO FAIL, ACCORDING TO A							

File No. - 5111 10/29/84 A/C Reg. No. N79CM Time (Lc1) - 2325 EST JACKSONVILLE, FL AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #1 Phase of Operation LANDING Finding(s) 1. LANDING GEAR, MAIN GEAR STRUT - FAILURE, TOTAL 2. LANDING GEAR, TIRE - FAILURE, TOTAL Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 3. DIRECTIONAL CONTROL - NOT POSSIBLE - PILOT IN COMMAND 4. GROUND LOOP/SWERVE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) $\mathbf{1}$

Basic Information						
Type Operating Certificate-NONE (GENERA		Damage		Injur		
Type of Operation -PERSONAL	MINOR Fire	Crew	Fatal O	Serious O	Minor O	None 1
Flight Conducted Under -14 CFR 91	Fire NONE	Pass	0	0	Õ	1
Incident Occurred During -LANDING	HONE	1 433	O	O	Ŭ	•
Aircraft Information						
Make/Model - PIPER PA-34-200	Eng Make/Mode1 - LYC			Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 2		S	tali Warning	g System	- YES
Max Gross Wt - 3600	3 1 1	CIP-FUEL INJECTED				
No. of Seats - 7	Rated Power -	200 HP				
Environment/Operations Information	Thirmson		Adumant	Dogwindty		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Point		ON AIR	Proximity		
Method - N/A	LABELLE,FL		UN AIR	FUNI		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	SAME AS ACC/INC		TAMIAM			
Wind Dir/Speed- 350/003 KTS	·				09	
Visibility - 10.0 SM	ATC/Airspace			Lth/Wid -		150
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -				ASPHALT	
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -	- TRAFFIC PATTERN				
Precipitation - NONE Condition of Light - NIGHT(DARK)	,	FULL STOP				
Personnel Information Pilot-In-Command	Age ~ 61	Medical Certifica	te - VALID	MEDICAL-WA	IVERS/LIM	IT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	ht Time (H	ours)		
COMMERCIAL	Current - YES	Total -		Last 24		14
SE LAND, ME LAND	Months Since - 14	•	130	Last 30	Days- UN	K/NR
	Aircraft Type - UNK/NR					
		Multi-Eng -	1500	Rotorcr	aft -	30 5
Instrument Rating(s) - AIRPLANE						
 Narrative						
NOSE CEAR COLLAPSED DURING A LANDING. AN	EXAM DISCLOSED THAT THE HYDE	RAULIC ACTUATOR FT	REWALL MOU	NTING BRACK	ET	
FAILED PRIOR TO COMPLETE EXTENSION OF THE						
VER, NO LOGBOOK ENTRY WAS FOUND TO VERIFY						

File No. - 5089 11/13/84 MIAMI,FL A/C Reg. No. N1053U Time (Lc1) - 1839 EST

Occurrence NOSE GEAR COLLAPSED Phase of Operation LANDING - ROLL

Finding(s)
1. LANDING GEAR,NORMAL RETRACTION/EXTENSION ASSEMBLY - FAILURE,TOTAL

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

-'---Probable Cause----

File No 5066 11/14/84	TALLAHASSEE, FL	A/C Reg. No	o. N31264	Ti	me (Lc1) -	0130 EST	•
Basic Information Type Operating Certificate-ON-DE	MAND AIR TAXI	Aircraft Dama	age		Injuri	ies	
Name of Carrier -PLANES		MINOR	-9-	Fatal	Serious	Minor	Non e
Type of Operation -NON SC	CHED, DOMESTIC, CARGO	Fire	Crew	0	0	0	2
Flight Conducted Under -14 CFF		NONE	Pass	Ō	Ō	O	0
Incident Occurred During -LANDIM							
Aircraft Information							
Make/Model ~ SWEARINGEN SA-226	SAT Eng Make,	/Model - AIRESEAF	CH TPE 331		nstalled/Ad		
Landing Gear - TRICYCLE-RETRACTA	ABLE Number Ei	ngines - 2		St	all Warning	g System	- YES
Max Gross Wt - 12500	Engine Ty	ype - TURBOPRO)P		_		
No. of Seats - 2	Rated Por		4P				
Environment/Operations Information							
Weather Data	Itinerary			Airport F	Proximity		
Wx Briefing - FSS		rture Point		ON AIRE			
Method - UNK/NR	ATLANTA						
Completeness - UNK/NR	Destination			Airport Da	ata		
Basic Weather - VMC	TALLAHA				SEE MUNI		
Wind Dir/Speed- CALM		,		Runway		18	
Visibility - 7.0 SM	ATC/Airspace	2			Lth/Wid -		150
Lowest Sky/Clouds - CLEAR		light Plan - IFR			Surface -		
Lowest Ceiling - NONE		learance - IFR				DRY	
Obstructions to Vision- NONE	Type Apch		AIGHT-IN				
Precipitation - NONE	Type Apon,	, <u>2.1.a</u> g	120/// 2//				
Condition of Light - NIGHT(DARK)						
Personnel Information							/
Pilot-In-Command	Age26		cal Certifica			WAIVERS	LIMII
Certificate(s)/Rating(s)	Biennial Flight			ht Time (Ho			114 / 1 m
ATP	Current		Total -			Hrs - Ul	•
SE LAND, ME LAND	Months Sinc	•	Make/Model-	250		Days- U	
	Aircraft Ty	•	Instrument-	440	Last 90	Days- U	NK/NR
			Multi-Eng -	3050			
Instrument Rating(s) - AIRP	LANE						
Narrative		~					
N31264 CRASHED INTENTIONALLY GEAR UP O							
THE CREW ATTEMPTED EMERGENCY GEAR EXTE						WHERE	
IT CONNECTS WITH TERMINAL 6. TS-70 WAS							
SERVICE BULLETIN 32-017 WHICH CHANGES	GEAR MICRO-SWITCHES FRO	M PARALLEL TO SE	RIES WAS NOT	COMPLIED W	ITH.		

File No 50	66 11/14/84 	TALLAHASSEE, FL	A/C Reg. No. N31264	Time (Lc1) - 0130 EST	
Occurrence #1 Phase of Operation 1. ELECTRICAL SYST	APPROACH - VFR P	NT/SYSTEM FAILURE/MALFO ATTERN - DOWNWIND G - DISCONNECTED	JNCTION	· · · · · · · · · · · · · · · · · · ·	
Occurrence #2 Phase of Operation	GEAR COLLAPSED LANDING - FLARE/	TOUCHDOWN			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5084 12/27/84	NAPLES, FL	A/C Reg. No.	N139PB	Time (Lc1)	- 2115 EST	
-Basic Information						
Type Operating Certificate-COMMU	TER	Aircraft Damage		Inj	uries	
Name of Carrier -PROVI	NCETOWN-BOSTON AIRLI	NONE	Fat		Minor	None
Type of Operation -SCHED Flight Conducted Under -14 CF	JLED, DOMESTIC, PASSENGER	Fire		0 0		3.
		NONE	Pass	0	0	4
Incident Occurred During -TAKEO	FF 					
-Aircraft Information						
Make/Mode1 - DOUGLAS DC3A		Model - P&W R-1830		ELT Installed		
Landing Gear - TAILWHEEL-RETRAC		jines - 2		Stall Warn	ing System	- YES
Max Gross Wt - 25200		e - RECIPROCAT	ING-CARBURETOR			
No. of Seats - 34	Rated Powe	er - 1200 HP				
-Environment/Operations Information					•	
Weather Data	Itinerary			ort Proximity		
Wx Briefing - COMPANY	Last Depart		ON	AIRPORT		
Method - IN PERSON	NAPLES, FL	-				
Completeness - WEATHER NOT PE				rt Data		
Basic Weather - VMC	TAMPA,FL			MEYERS		
Wind Dir/Speed- 060/003 KTS				nway Ident	- UNK/NR	
Visibility - 10.0 SM	ATC/Airspace			nway Lth/Wid		
Lowest Sky/Clouds - CLEAR		ight Plan - IFR		nway Surface		
Lowest Ceiling - NONE Obstructions to Vision- NONE		earance - IFR		nway Status	- UNK/NR	
Precipitation - NONE	Type Apcn/L	.ndg - STRAIG	TIONARY LANDING			
Condition of Light - NIGHT(DARK)	PRECAU	ITUNARY LANDING			
Condition of Light - Night	JAKK) 					
-Personnel Information						,
Pilot-In-Command	Age - 59		Certificate - V		WAIVERS/LIM	IT
Certificate(s)/Rating(s)	Biennial Flight F		Flight Time			
ATP	Current	- YES Tot	al - 15800	Last	24 Hrs - UN	
SE LAND, ME LAND	Months Since	- 1 Mak	e/Model- 4350 trument- UNK/NR	Last	30 Days- UN	K/NR
	Aircraft Type					
		Mui	ti-Eng - UNK/NR	KOTOP	craft - UN	K/NR
Instrument Rating(s) - AIRP	LANE					
-Narrative						
RTLY AFTER TAKEOFF, THE AIRCREW NOT	ED THAT THE ELEVATOR CONT	TOOL WAS LOCKED T	HEV DECLADED AN	EMEDGENCY 9. 1	ANDED	
HOUT CAUSING DAMAGE TO THE ACFT. AF						
TIOUT CAUSING DAMAGE TO THE ACTI. AT	ICK LANDING. INC CLEVAIUN	CEATERINAL GUST LU	CV MYD LOOND 911	LL INDIALLEU.		

File No. - 5084 12/27/84 NAPLES, FL A/C Reg. No. N139PB Time (Lc1) - 2115 EST

Occurrence

MISCELLANEOUS/OTHER

Phase of Operation

TAKEOFF

Finding(s)

1. FLIGHT CONTROL, GUST LOCK - NOT REMOVED

- 2. AIRCRAFT PREFLIGHT IMPROPER PILOT IN COMMAND
- 3. FLT CONTROL SYST, ELEVATOR CONTROL LOCKED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

		Reg. No. N402PB		ime (Lc1) -	1526 EST	
Basic Information Type Operating Certificate-COMMU	TER Aircr MINO	aft Damage R	Fatal	Injur Serious	ies Minor	Noné
Type of Operation -POSIT Flight Conducted Under -14 CF Incident Occurred During -CRUIS	R 91 NONE		-	0	0	1 0
Aircraft Information Make/Model - CESSNA 402B Landing Gear - TRICYCLE-RETRACT Max Gross Wt - 6300 No. of Seats - 10	ABLE Number Engines -	RECIP-FUEL INJECTED		Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - UNK/NR Completeness - WEATHER NOT PE Basic Weather - VMC Wind Dir/Speed- 130/010 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 4000 Lowest Celling - 4000 Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIG	Itinerary Last Departure Poi ORLANDO,FL RTINENT Destination JACKSONVILLE,FL ATC/Airspace FT Type of Flight Pla Type of Clearance Type Apch/Lndg	n - IFR - IFR	ON AIR Airport D SANFOR Runway Runway Runway Runway	ata D Ident - Lth/Wid - Surface -		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP,CFI SE LAND,ME LAND	Age - 28 Biennial Flight Review Current - YES Months Since - 2 Aircraft Type - 402	Medical Certifica Flig Total - Make/Model- Instrument- Multi-Eng -	ht Time (H 5300 150 331	lours) Last 24	Hrs - Days- UN	1
Instrument Rating(s) - AIRP	LANE					

File No. - 5085 12/29/84 SANFORD, FL A/C Reg. No. N402PB Time (Lc1) - 1526 EST

Occurrence AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation CRUISE

Finding(s)

- 1. FLIGHT CONTROL, ELEVATOR TAB SURFACE DISCONNECTED
- 2. MAINTENANCE, INSTALLATION IMPROPER COMPANY MAINTENANCE PSNL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 1,2$

LAG/DOMESTIC Aircraft ES MINOR TIC,PASSENGER Fire	Damage Cre	Fatal	Injuri Serious	es Minor	None
	Cre		-		
NONE	Pas	-	0	0	5 67
Number Engines - 2 Engine Type - TUR	BOFAN				
Itinerary Last Departure Point					
Destination WASHINGTON,DC ATC/Airspace ED Type of Flight Plan - Type of Clearance -	IFR	W.B HAI Runway Runway Runway Runway	RTSFIELD INT Ident - Lth/Wid - Surface -	09 8000/ CONCRETE	150
ennial Flight Review Current - YES Months Since - UNK/NR	F1i Total - Make/Model- Instrument-	ght Time (Ho UNK/NR UNK/NR UNK/NR	burs) Last 24 Last 30 Last 90	Hrs - UNI Days- UNI Days- UNI	K/NR K/NR K/NR
- 9	Number Engines - 2 Engine Type - TURE Rated Power - 140 Itinerary Last Departure Point SAME AS ACC/INC Destination WASHINGTON,DC ATC/Airspace ED Type of Flight Plan - Type of Clearance - Type Apch/Lndg - - 51 ennial Flight Review Current - YES Months Since - UNK/NR Aircraft Type - DC-9-31	Engine Type - TURBOFAN Rated Power - 14000 LBS THRUST Itinerary Last Departure Point SAME AS ACC/INC Destination WASHINGTON,DC ATC/Airspace ED Type of Flight Plan - VFR/IFR Type of Clearance - IFR Type Apch/Lndg - TRAFFIC PATTERN Ennial Flight Review Flight Current - YES Total - (Months Since - UNK/NR Make/Model - Multi-Eng - (Multi-Eng -	Number Engines - 2 Engine Type - TURBOFAN Rated Power - 14000 LBS THRUST Itinerary	Number Engines - 2 Engine Type - TURBOFAN Rated Power - 14000 LBS THRUST Itinerary Last Departure Point SAME AS ACC/INC Destination WASHINGTON,DC ATC/Airspace ED Type of Flight Plan - VFR/IFR Type of Clearance - IFR Type Apch/Lndg - TRAFFIC PATTERN A Medical Certificate - VALID MEDICAL-WAI Flight Review Current - YES Months Since - UNK/NR Make/Model - UNK/NR Airport Proximity OFF AIRPORT/STRIP OFF AIR	Number Engines - 2 Engine Type - TURBOFAN Rated Power - 14000 LBS THRUST Itinerary Last Departure Point SAME AS ACC/INC Destination WASHINGTON, DC ATC/Airspace D Type of Flight Plan - VFR/IFR Type of Clearance - IFR Type Apch/Lndg - TRAFFIC PATTERN Medical Certificate - VALID MEDICAL-WAIVERS/LIMENTIAL FILIPMENT TIME (Hours) Current - YES Current - YES Months Since - UNK/NR Make/Model - UNK/NR Aircraft Type - DC-9-31 Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/STRIP Airport Data W.B HARTSFIELD INT'L ARPT Runway Ident - 09 Runway Lth/Wid - 8000/ Runway Surface - CONCRETE Runway Status - DRY Time (Hours) Current - YES Total - UNK/NR Last 24 Hrs - UNI Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days - UNI Aircraft Type - DC-9-31 Instrument - UNK/NR Last 90 Days - UNI

File No. - 5044 2/16/84 FOREST PARK,GA A/C Reg. No. N8924E Time (Lc1) - 1231 EST

Occurrence LOSS OF POWER(TOTAL) - MECH FAILURE/MALFUNCTION
Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. TURBINE ASSEMBLY,TURBINE BLADE - FATIGUE
2. TURBINE ASSEMBLY,TURBINE BLADE - FAILURE,TOTAL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

Basic Information Type Operating Certificate-NONE (GENER	PAL AVIATION) A	ircraft Damage			Injur	ies	
,, pe special g ser er reads (uzz.		MINOR		Fatal	Serious		None
Type of Operation -INSTRUCTION	IAL F	ire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	0
Incident Occurred During -LANDING							
Aircraft Information					,		
Make/Model - BEECH 19A SPORT III		1 - LYCOMING 0-32			nstalled/A		
Landing Gear - TRICYCLE-FIXED	Number Engines				all Warnin	g System	- YES
Max Gross Wt - 2250		- RECIPROCATING	-CARBURET	OR			
No. of Seats - 4	Rated Power	- 150 HP					
Environment/Operations Information							
Weather Data	Itinerary			Airport P			
Wx Briefing - NO RECORD OF BRIEFIN		Point		ON AIRP	ORT		
Method - N/A	ATLANTA, GA						
Completeness - N/A	Destination		А	irport Da			
Basic Weather - VMC	LOCAL			FULTON		20	
Wind Dir/Speed- 340/005 KTS Visibility - 12.0 SM	ATC/Airspace				ident - Lth/Wid -	32	100
Lowest Sky/Clouds - 41000 FT SC/		Dian - NONE			Surface -		100
Lowest Ceiling - NONE	Type of Cleara					DRY	
Obstructions to Vision- NONE		- TRAFFIC P	ATTEDN	Kuriway	Status	DKI	
Precipitation - NONE	Type Apcil, Ling	TOUCH AND					
Condition of Light - DAYLIGHT		TOOGH AND					
Personnel Information							
Pilot-In-Command	Age - 38	Medical Ce	ertificate	- VALID	MEDICAL-WA	IVERS/LIM	IT
Certificate(s)/Rating(s)	Biennial Flight Revie		Flight	: Time (Ho	urs)		
STUDENT	Current - I		-	22	Last 24	Hrs - UN	IK/NR
	Months Since - I	N/A Make/N	lode1-	13	Last 30 Last 90 Rotorcr	Days- UN	IK/NR
	Aircraft Type - I	N/A Instru	ıment- UNK	:/NR	Last 90	Days-	10
		Multi-	Eng - UNK	:/NR	Rotorcr	aft - UN	IK/NR
Instrument Rating(s) - NONE							
Narrative							
STUDENT PLT LANDED HARD & THE NOSE GEAR			T TUE 40	CL TD -	CE THE DWY		

File No 50	06 3/03/84 ATL	ANTA, GA	A/C Reg. No. N6968Q	Time (Lc1) - 1535 EST
Occurrence #1 Phase of Operation	HARD LANDING LANDING - FLARE/TOUCH	IDOWN		
Finding(s) 1. FLARE - IMPROPE	R - PILOT IN COMMAND			
	NOSE GEAR COLLAPSED LANDING - FLARE/TOUCH	IDOWN		
Finding(s) 2. LANDING GEAR,NO	SE GEAR - OVERLOAD			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5101 10/10/84 CHAM	BLEE.GA	A/C Reg.	No. N2756F	7	1me (Lc1) -	- 1200 EDT	
Basic Information Type Operating Certificate-ON-DEMAND A Name of Carrier -DOOLEY HELI		Aircraft D	amage	Fatal	Injur Serious		None
Type of Operation -NON SCHED,D Flight Conducted Under -14 CFR 135 Incident Occurred During -CRUISE	DMESTIC, PA\$SENGER	Fire NONE		rew O ass O	0	0	1
Aircraft Information Make/Model - BELL 206B Landing Gear - SKID Max Gross Wt - 3200 No. of Seats - 6		del - ALLIS nes - 1 - TURBO	ON 250-C20B	ELT	Installed// Stall Warnir		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 130/006 KTS Visibility - 11.0 SM Lowest Sky/Clouds - 2500 FT SCA Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary G Last Departu HIGHLANDS, Destination CHAMBLEE,G ATC/Airspace TTERED Type of Flig Type Apch/Ln	NC A ht Plan - V rance - V	'FR	ON AIR Airport [DEKALE Runway Runway Runway	Data B/PEACHTREE	- ASPHALT	INK/NR
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND HELICOPTER Instrument Rating(s) - HELICOPTER	Months Since Aircraft Type	view - YES - UNK/NR	Total Make/Model	1ight Time () - 7903 - 5602 - UNK/NR	Hours) Last 24 Last 30 Last 90	4 Hrs - UN O Days- UN	IK/NR IK/NR IK/NR
	 OLLECTIVE HAD LOCKED HE CHECKED THE SYSTE	UP. EVEN W	/ITH CONSIDER: EVERAL REMEDIA	AL ACTION AT	TEMPTS TO N		

File No. - 5101 10/10/84 CHAMBLEE,GA A/C Reg. No. N2756F Time (Lc1) - 1200 EDT

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation CRUISE - NORMAL

Finding(s)

1. ROTORCRAFT FLIGHT CONTROL,COLLECTIVE CONTROL - UNDETERMINED
2. ROTORCRAFT FLIGHT CONTROL,COLLECTIVE CONTROL - LOCKED

Occurrence #2 FORCED LANDING
Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5097 12/04/84 ATLA	NTA,GA	A/C Reg. No. N	1264US	Time (Lc1) - 10	015 EST	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -NORTHWEST A Type of Operation -SCHEDULED,DI Flight Conducted Under -14 CFR 121 Incident Occurred During -CRUISE	IRLINES, INC. DMESTIC,PASSENGER	Aircraft Damage MINOR Fire IN FLIGHT	Fatal Crew O	Injurie: Serious I O O	s Minor O O	None 7 92
Aircraft Information Make/Model - BOEING 727-251 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 142000 No. of Seats - 134	Eng Make/M Number Enġ Engine Typ Rated Powe	e - TURBOFAN	EL	T Installed/Act Stall Warning S		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - TELETYPE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 010/004 KTS Visibility - 20.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 8000 FT BROWN Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	KEN Type of Cle	L ght Plan - IFR	OFF Airport HART Runw Runw Runw Runw	t Proximity AIRPORT/STRIP Data SFIELD ay Ident - N, ay Lth/Wid - N, ay Surface - N, ay Status - N,	/A /A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL, ATP, FLT ENG SE LAND, ME LAND, SE SEA, ME SEA Instrument Rating(s) - AIRPLANENarrative DURING CRUISE FLT ELECTRICAL FIRE ERUPTED IN FOR THE REAR GALLEY OVEN. ASSOCIATED CIRCUIT MINUTES THE UNIT WAS COOL TO TOUCH. UNSCHEDU IN BUSINESS. OVERHEATED OVEN TEMP CONTROL CI BEEN A CHRONIC PROBLEM AND ON 12/7/84 BEGAN	Months Since Aircraft Type THE CIRCUIT BOARD BREAKER OPENED, EL LED LANDING WAS MAD RCUITRY IS ENCLOSED	eview - YES Tota - UNK/NR Make - 727 Ins - Mult AND ELECTRICAL COM ECTRICAL POWER TO E. MANUFACTURER OF IN METAL BOX. AI	GALLEY WAS TURNED F UNIT REPORTEDLY RLINE REPORTED THI	(Hours) Last 24 H Last 30 D Last 90 D Rotorcraf MP CONTROL UNIT OFF AND WITHIN IS NO LONGER S FAILURE HAS	rs - UNK, ays- UNK, ays- UNK, t - UNK,	/NR

File No. - 5097 12/04/84 ATLANTA,GA A/C Reg. No. N264US Time (Lcl) - 1015 EST

Occurrence

FIRE

Phase of Operation CRUISE - NORMAL

Finding(s)

- 1. ELECTRICAL SYSTEM, ELECTRIC WIRING UNDETERMINED
- 2. ELECTRICAL SYSTEM, ELECTRIC WIRING OVERTEMPERATURE
- 3. MISC EOPT/FURNISHINGS, GALLEY SMOKE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1,2

File No 5002 2	/28/84 KAL	AUPAPA,HI	A/C Reg.	No. N2O6RH		Time (Lc1) -	- 0920 HS1	r
Basic Information								
Type Operating Certifica			Aircraft Da	amage		Injur	ies.	
		IIAN AIRWAYS IN	MINOR		Fatal	Serious	Minor	None
Type of Operation Flight Conducted Under	-SCHEDULED,	DOMESTIC, PASSENGER	Fire	Cre	_	0	0	1
		i	NONE	Pas	s O	0	0	1
Incident Occurred During	-LANDING							
Aircraft Information								
Make/Model - CESSNA 4				NENTAL TSIO-52		Installed/		
Landing Gear - TRICYCLE	-RETRACTABLE	Number Eng	,			Stall Warnir	ng System	- YES
Max Gross Wt - 6850				-FUEL INJECTED				
No. of Seats - 8		Rated Powe	er - 32!	5 HP				
Environment/Operations Inf	ormation							
Weather Data		Itinerary			Airport	Proximity		
Wx Briefing - FSS		Last Depart	ture Point		ON AI	RPORT		
Method - TELEPH		HONOLULU,	,HI					
Completeness - WEATHE	R NOT PERTINE				Airport I			
Basic Weather - VMC		KALAUPAPA	HI		KALAUI			
Wind Dir/Speed- CALM							- 23	
Visibility - 20.0		ATC/Airspace				/ Lth/Wid -		50
Lowest Sky/Clouds -		CATTERED Type of F1					ASPHALT	
	- NONE		earance - VI		Runwa	/ Status -	- DRY	
Obstructions to Vision		Type Apch/L	_ndg - S ⁻	TRAIGHT-IN				
Precipitation								
Condition of Light	- DAYLIGHT 							
Personnel Information								
Pilot-In-Command		Age - 56		dical Certific			IVERS/LI	MIT
Certificate(s)/Rating(s)	Biennial Flight F			ght Time (I			_
COMMERCIAL, ATP	- •	Current	- YES	Total -		Last 24		0
SE LAND, ME LAND, SE S	ΕA	Months Since		Make/Mode1-			Days- U	•
HELICOPTER		Aircraft Type	e - UNK/NR	Instrument-		Last 90		175
				Multi-Eng -	13000	Rotorc	art -	40
<pre>Instrument Rating(s)</pre>	- AIRPLANE							
-Narrative								
LE ON FINAL TO RWY 23, A 20								
CUTED A GO-AROUND & LANDED (

File No. - 5002 2/28/84 KALAUPAPA,HI A/C Reg. No. N206RH Time (Lc1) - 0920 HST

Occurrence
Phase of Operation

UNDERSHOOT

Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

1. PLANNED APPROACH - INADEQUATE - PILOT IN COMMAND

2. PROPER GLIDEPATH - NOT MAINTAINED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 1,2$

Brief of Accident/Incident

File No 6009 6/19/84 BARBE	RS POINT,HI A/C Re	g. No.	DQFDN	T	ime (Lc1)	- 2247 HS	T
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -FERRY	- AVIATION) Aircraft DESTROY Fire		Crew	Fatal O	•	uries Minor O	None 1
Flight Conducted Under -14 CFR 91 Acc/Inc Occurred During -LANDING	NONE		Pass	ó	0	0	ò
Aircraft Information Make/Model - CESSNA 206 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 4600 No. of Seats - 2			SIO-52O-M			/Activated ing System	
-Environment/Operations Information Weather Data W× Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 045/010 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure Point PAGO PAGO,SAMOA Destination HONOLULU,HI ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	NONE	LANDING	OFF AI Airport D BARBER Runway Runway Runway		- N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Riennial Flight Poview			te - VALID ht Time (F		NO WAIVERS	/LIMIT
ATP SE LAND, ME LAND	Current - YES Months Since - 8 Aircraft Type - WSTWIND) Inst	al - e/Model- trument- ti-Eng -	12131 1500 1713	Last Last	24 Hrs - 30 Days- 90 Days-	22 60 315
Instrument Rating(s) - AIRPLANE							
Narrative HE PLT STATED HE GOT OFF COURSE DURING THE F AS BEING ESCORTED INTO HONOLULU WHEN FUEL EX ARBERS POINT NAS AND THE PLT WAS RESCUED BY	HAUSTION OCCURRED. THE ACFT						

Brief of Accident/Incident (Continued)

File No. - 6009 6/19/84 Time (Lc1) - 2247 HST BARBERS POINT.HI A/C Reg. No. DQFDN Occurrence #1 LOSS OF POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. COMM/NAV EQUIPMENT, COMPASS RECEIVER - ERRATIC 2. BECAME LOST/DISORIENTED - INADVERTENT - PILOT IN COMMAND 3. FLUID, FUEL - EXHAUSTION FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY Occurrence #3 DITCHING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. LIGHT CONDITION - DARK NIGHT 5. TERRAIN CONDITION - WATER, ROUGH ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident

is/are finding(s) 2,3

Factor(s) relating to this incident is/are finding(s) 1,4,5

File No 5014 1/23/84	CHICAGO, IL	A/C Reg. No.	N808 1U	Time (Lc1)	- 2020 CST	-
Basic Information Type Operating Certificate-AIR C Name of Carrier -UNITE Type of Operation -SCHED Flight Conducted Under -14 CF Incident Occurred During -TAKEO	D AIRLINES, INC. ULED,INTL,PASSENGER R 121	Aircraft Damage MINOR Fire NONE	Fat Crew		uries Minor O O	None 8 39
Aircraft Information Make/Model - MCDONNELL DOUGLA Landing Gear - TRICYCLE-RETRACT Max Gross Wt - 328000 No. of Seats - 152		e - TURBOFAN		ELT Installed/ Stall Warns		
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- 200/012 KTS Visibility - 2.000 SM Lowest Sky/Clouds - 600 Lowest Ceiling - 600 Obstructions to Vision-FOG Precipitation - FREEZI Condition of Light - NIGHT(Itinerary Last Depart CHICAGO,I Destination TORONTO,C ATC/Airspace Type of Fli FT OVERCAST Type of Cle Type Apch/L NG DRIZZLE	L D ght Plan - IFR arance - IFR	ON Airpo O' Ru Ru Ru	ort Proximity AIRPORT rt Data HARE IAP nway Ident nway Lth/Wid nway Surface nway Status		150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRP	Age - 57 Biennial Flight R Current Months Since Aircraft Type	eview - YES To - 5 Mal - DC-8 Ins	Certificate - V Flight Tim tal - 16000 ke/Model- 500 strument- UNK/NR lti-Eng - UNK/NR	e (Hours) Last 2 Last 3 Last 9	24 Hrs - UN	IK/NR 75 IK/NR
AS THE CAPT APPLIED POWER & RELEASED E STATED THAT HE CLOSED THE THROTTLES & AROUND NEARLY 1-1/2 TIMES. THE 1ST OFF #4 ENG WAS NOT SPOOLING UP & HE SO INF SCATTERED AREAS OF SNOW; BRAKING ACTIC AT THE TIME OF THE INCIDENT. THE UNDER HAD TO BE REPLACED.	RAKES TO BEGIN THE TAKEOF PUT THE #1 & #2 THROTTLES ICER STATED THAT AS THE A ORMED THE CAPT. THE RWY C IN HAD BEEN REPORTED AS GO	IN REVERSE. THE CFT INITIALLY DR ENTERLINE HAD BE OD. THE CAPT SAI	ACFT THEN BEGAN IFTED TO THE RIGH EN DEICED & WAS R D THAT LIGHT RAIN	TO VEER LEFT & IT, HE NOTED THE EPORTED WET WE OR MIST WAS A	SPUN HAT THE LTH PRESENT	

File No 50	1/23/84	CHICAGO,IL	A/C Reg. No. N8081U	Time (Lc1) - 2020 CST	
Occurrence #1 Phase of Operation	LOSS OF CONTROL	- ON GROUND			
		NED - PILOT IN COMMAND USE OF - PILOT IN COMMA	AND		
Occurrence #2 Phase of Operation	DRAGGED WING, ROTAKEOFF	TOR, POD, OR FLOAT			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

1116 NO. 3027	2/22/84 CH	HAMPAIGN,IL	A/C Reg.	No. N313BA	Т	ime (Lc1) -	1008 CST	
Basic Information Type Operating Certific Name of Carrier	-BRITT AIR	RWAYS, INC.	Aircraft D MINOR	amage	Fatal	Injur Serious		None
Type of Operation Flight Conducted Under Incident Occurred Duri	-SCHEDULED -14 CFR 1: ng -APPROACH	D, DOMESTIC, PASSENGER	Fire NONE	Crew Pass	0	0 0	0	2 3
Aircraft Information								
Make/Model· - BEECH 9	99	Eng Make/Mo	odel - P&W P	T6A-20	ELT	Installed/#	ctivated	- YES/NO
Landing Gear - TRICYC	LE-RETRACTABLI	Number Eng	ines - 2		S	tall Warnir	ng System	- YES
Max Gross Wt - 10400		Engine Type	e - TURBO	PROP				
No. of Seats - 17		Rated Power	r - 55	O HP				
Environment/Operations II	nformation	·						
Weather Data		Itinerary			Airport	Proximity		
Wx Briefing - UNK/I	NR	Last Departi	ure Point		OFF AI	RPORT/STRIF	•	
Method - UNK/I	NR	ST. LOUIS	, MO					
Completeness - UNK/I	NR	Destination			Airport D			
Basic Weather - VMC		CHAMPAIGN	,IL			OF IL-WILL		
Wind Dir/Speed- 330/						/ Ident -		
Visibility - 20		ATC/Airspace				/ Lth/Wid -		
Lowest Sky/Clouds -		Type of Flig				Surface -		Ē
Lowest Ceiling	- NONE	Type of Cle		•	Runway	Status -	- DRY	
Obstructions to Vision		Type Apch/L	ndg - U	NK/NR				
Precipitation Condition of Light	- NONE - DAYLIGHT							
Pilot-In-Command		Age - 26	Me	dical Certifica	itë - VALID	MEDICAL-NO	WAIVERS.	/LIMIT
Certificate(s)/Rating	(s)	Biennial Flight R			ht Time (F			
ATP	,	Current	- UNK/NR	Total - `	4582	Last 2	4 Hrs - Ul	NK/NR
SE LAND, ME LAND		Months Since	- UNK/NR	Make/Model-	1161	Last 30	Days-	5
		Aircraft Type		Instrument- Multi-Eng -	370	Last 90	Days-	330

File No. - 5027 2/22/84 CHAMPAIGN,IL A/C Reg. No. N313BA Time (Lc1) - 1008 CST

Occurrence AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation APPROACH

Finding(s)

1. FLIGHT CONTROL,AILERON ATTACHMENT - DISCONNECTED

2. MAINTENANCE,INSTALLATION - IMPROPER - COMPANY MAINTENANCE PSNL

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

Basic Information Type Operating Certificate-/	AIR CARRIER - F	AG/DOMESTIC	Aircraft Da	mage		Intur	ies	
	MISSISSIPPI VAL		NONE	illage	Fata1	Serious	Minor	None
Type of Operation -	SCHEDULED, DOMES	TIC, PASSENGER	Fire	Crev	_	0	0	3
Flight Conducted Under Incident Occurred During			NONE	Pass	0	0	O	16
Aircraft Information								
Make/Model - SHORT BROS			del - P&W PT	6A-45R		Installed/A		
Landing Gear - TRICYCLE-RET Max Gross Wt - 22600	IRACIABLE	Number Engi Engine Type		POD	S	tall Warnin	g System	- YES
No. of Seats - 30		Rated Power						
Environment/Operations Inform	ation							
Weather Data Wx Briefing - COMPANY		Itinerary Last Departu	na Daint			Proximity RPORT/STRIP		
Method - IN PERSON		CEDAR RAPI			UFF AI	RPURI/SIRIP		
Completeness - FULL		Destination			Airport D	ata		
Basic Weather - VMC		MOLINE,IL			QUAD C			
Wind Dir/Speed- 300/016 K		.==					27	.=-
Visibility - 7.0 S Lowest Sky/Clouds -	SM 2500 FT	ATC/Airspace Type of Flic	sht Dlan - IE	·D		Lth/Wid - Surface -		150
		Type of Clea					DRY	
Obstructions to Vision- NO		Type Apch/Lr				0.0.00		
Precipitation - No		•••	•					
Condition of Light - DA	AYLIGHT							
Personnel Information Pilot-In-Command	Age	e - UNK/NR	Med	lical Certifica	ate - VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Bi	ennial Flight Re	eview	Flig	ght Time (H	ours)		
ATP, FLT ENG			- UNK/NR	Total - l			Hrs - UNI	
SE LAND, ME LAND		Months Since		Make/Model- l Instrument- l			Days- UNI	
		Aircraft Type	- UNK/NK	Multi-Eng - (aft - UN	
Instrument Rating(s) -	AIRPLANE							
Narrative								
NG AN APCH, THE RIGHT ENG LOS	T POWER, BUT AN	UNEVENTFUL LAND	ING WAS MADE	. AN EXAM REVI	EALED THE A	FT FUEL TAN	K,	
ISTING OF THE #3 & #4 FUEL CE	LLS. WERE EMPTY	. ALTHOUGH THE F	UEL QUANTITY	GAGE INDICATE	D 500 LBS	OF FUEL REM	AINING.	

File No. - 5080

3/21/84 MOLINE,IL

A/C Reg. No. N333MV

Time (Lc1) - 1715 CST

Occurrence

LOSS OF POWER(TOTAL) - NON-MECHANICAL

Phase of Operation APPROACH

Finding(s)

1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND

- 2. ENGINE INSTRUMENTS, FUEL QUANTITY GAGE FALSE INDICATION
- 3. FLUID, FUEL EXHAUSTION
- 4. FUEL SUPPLY INADEQUATE PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,3,4

Factor(s) relating to this incident is/are finding(s) 2

	/84 CHICAGO,IL	A/C Reg.	No. N320BA	Т.	me (Lc1) -	0926 CD1	•
Basic Information Type Operating Certificate-/ Name of Carrier -E		Aircraft Da MINOR	mage	Fatal	Injur Serious		None
Type of Operation -	SCHEDULED, DOMESTIC, PASSENGER	Fire	Cre		0	0	2
Flight Conducted Under -		NONE	Pas		Ö	1	8
Incident Occurred During -			, 43		Ū		
Aircraft Information							
Make/Model - BEECH 99		lodel - P&W PT	6A-20		[nstalled/A		
Landing Gear - TRICYCLE-RET		ines - 2		Sf	tall Warnin	g System	- YES
Max Gross Wt - 10400	Engine Typ						
No. of Seats - 15	Rated Powe	er - 550	HP				
Environment/Operations Informa							
Weather Data	Itinerary			•	Proximity		
Wx Briefing - UNK/NR	Last Depart			ON AIR	PORT		
Method - UNK/NR	BLOOMINGT	ON, IN					
Completeness - UNK/NR Basic Weather - VMC	Destination	•		Airport Da	ата		
Wind Dir/Speed- 220/005 K	CHICAGO, I	L			Talant -	14	
Visibility - 4.000 S	=			Runway	Ident - Lth/Wid -		200
	400 FT SCATTERED Type of Fli	abt Dlan - IE	D		Surface -		200
Lowest Ceiling - 4		earance - IF				DRY	
Obstructions to Vision- FO		ndg - ST		Kullway	Julia	DKI	
Precipitation - NO		inag 51	RAIGHT IN				
Condition of Light - DA							
ersonnel Information							
Pilot-In-Command	Age - 41	Mod	ical Certific	ato - VALTO	MEDICAL -WA	TVEDC/LT	ATT
Certificate(s)/Rating(s)	Biennial Flight F			ght Time (Ho		1 4 5 7 5 1 1	111
ATP	Current	- UNK/NR				Hrs - Ul	JK /ND
	Months Since		Make/Model-	LINK / ND	Last 24	Dave- III	MK/ND
		- OINT/INK		ONK/ NK	Last 50	Days O	AIC / IAIC
SE LAND, ME LAND		- LINIZ/MD				Dave- III	ALZ / KID
	Aircraft Type	e - UNK/NR	Instrument-		Last 90		
		e - UNK/NR	Instrument- Multi-Eng -			Days- UI aft - UI	

File No. - 5076 6/09/84 CHICAGO,IL A/C Reg. No. N320BA Time (Lc1) - 0926 CDT

Occurrence
Phase of Operation

GEAR COLLAPSED

Phase of Operation LANDING

Finding(s)

1. HYDRAULIC SYSTEM - FATIGUE

2. GEAR DOWN AND LOCKED - NOT POSSIBLE - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) $\mathbf{1}$

File No 5102 6/18/84 CHI	CAGO,IL A/C	Reg. No. N4867T		ime (Lc1) -	1030 CD	T
Basic Information Type Operating Certificate-AIR CARRIE	R - FLAG/DOMESTIC Aircr MINO	aft Damage R	Fatal	Injur Serious	ies Minor	None
Type of Operation -POSITIONIN Flight Conducted Under -14 CFR 91 Incident Occurred During -LANDING	G F1re NONE		rew 0 ass 0	0	0	0 3
Aircraft Information Make/Mode1 - MCDONNELL DOUGLAS DC- Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 335800 No. of Seats - 152	Number Engines - Engine Type -			Installed/A Stall Warnin		
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 260/020 KTS Visibility - UNK/NR Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poi CHICAGO,IL Destination SAME AS ACC/INC ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	n - IFR - IFR	ON AIR Airport E O'HARE Runway Runway Runway	Data E IAP / Ident - / Lth/Wid - / Surface -		150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE	Age - UNK/NR Biennial Flight Review Current - UNK/ Months Since - UNK/ Aircraft Type - UNK/	NR Total NR Make/Model	light Time (F - UNK/NR - UNK/NR - UNK/NR	lours) Last 24 Last 30 Last 90	Hrs - UI Days- UI Days- UI aft - UI	NK/NR NK/NR

File No. - 5102 6/18/84 CHICAGO,IL A/C Reg. No. N4867T Time (Lc1) - 1030 CDT

Occurrence
Phase of Operation

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation LANDING - ROLL

Finding(s)

1. HYDRAULIC SYSTEM, FITTING - FAILURE, PARTIAL

2. FLUID, HYDRAULIC - LEAK

3. LANDING GEAR, ANTI-SKID BRAKE SYSTEM - INCORRECT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

Factor(s) relating to this incident is/are finding(s) 3

Brief of Accident/Incident

File No 6002	6/23/84	CHICAGO, IL	A/C Reg. No	. GSAIL	Т	ime (Lc1)	- 2025 CD	т
Basic Information Type Operating Certific Name of Carrier Type of Operation Flight Conducted Under Acc/Inc Occurred Durir	-TRADEV -SCHEDU -14 CFF	VINDS AIRWAYS LTD ULED,INTL,CARGO ₹ 129	Aircraft Dama MINOR Fire NONE	ge Crew Pass		Inju Serious O O		None 4 O
Aircraft Information Make/Model - BOEING Landing Gear - TRICYCL Max Gross Wt - 323300 No. of Seats - UNK/NR		•				Installed/ tall Warni		
Environment/Operations Ir Weather Data Wx Briefing - UNK/N Method - UNK/N Completeness - UNK/N Basic Weather - IMC Wind Dir/Speed- 290/C Visibility - 1. Lowest Sky/Clouds - Lowest Ceiling Obstructions to Vision Precipitation Condition of Light	NR NR O15 KTS .000 SM 1000 I - 1000 I on- FOG - RAIN	Itinerary Last De GNDR, Destinat SAME ATC/Airsp Type of Type of Type Ap	parture Point NEWFNDLAND ion AS ACC/INC ace Flight Plan - IFR Clearance - IFR	COMPLETE	ON AIR Airport D O'HARE Runway Runway Runway	ata INTL Ident Lth/Wid Surface		
Personnel Information Pilot-In-Command Certificate(s)/Rating(ATP SE LAND,ME LAND			ht Review - YES T nce - 1 M Type - 707 I	otal - ake/Model-	yht Time (H 7148 1923 O	lours) Last 2 Last 3 Last 9	AIVERS/LI 4 Hrs - 0 Days- l 0 Days- l raft -	12 JNK/NR JNK/NR
Instrument Rating(s	s) - AIRP	LANE						
Narrative OUT 26 MIN BEFORE LANDING (AT 15 KTS. THEY ALSO BECAMORY ORM VISUALLY & ON RADAR WEST UTTER. RAIN INCREASED IN INTERPRETATION FOR A "VER" CREIVED VECTORS NORTH OF THE PROACH TO RUNWAY 14R" RI	CREW RECEI' ME AWARE OI ST OF ARPT NTENSITY DI CHART IN ' Y WET" RWY E ARPT & H	VED SIGMET 1C ADVISIN F A THUNDERSTORM WEST . ABOUT 15 MI OUT CRE URING FINAL APPROACH. COMPANY OPS MANUAL. C . ANOTHER FLT WHICH WELD FOR ABOUT 10 MIN.	OF ARPT. AT ABOUT W CEASED LOOKING AT ACFT LANDED, OVERR HART INDICATES A ST AS ARRIVING IN THE THEY THEN FLEW "	20 MI NE OF RADAR DUE T AN RWY & HIT OPPING DISTA ARPT AREA AT	ARPT THEY O INCREASI APCH LIGH NCE OF 7,9 THE TIME	COULD SEE NG WORKLOA IT. CREW DI 30 FT FROM OF THE ACC	THE D & GROUM D NOT INITIAL IDENT	ND

Brief of Accident/Incident (Continued)

6/23/84 File No. - 6002 CHICAGO.IL A/C Reg. No. GSAIL Time (Lc1) - 2025 CDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation APPROACH Finding(s) 1. LIGHT CONDITION - DARK NIGHT 2. WEATHER CONDITION - LOW CEILING 3. WEATHER CONDITION - RAIN 4. WEATHER CONDITION - THUNDERSTORM Occurrence #2 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 5. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 6. PERFORMANCE DATA - NOT USED - PILOT IN COMMAND 7. AIRCRAFT PERFORMANCE, LANDING CAPABILITY - EXCEEDED 8. WRONG RUNWAY - SELECTED - PILOT IN COMMAND 9. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - WET 10. AIRCRAFT PERFORMANCE, HYDROPLANING CONDITION - WATER Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 11. OBJECT - APPROACH LIGHT/NAVAID ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident $is/are\ finding(s)\ 5,6,7,8$ Factor(s) relating to this incident is/are finding(s) 1,2,3,4,9,10,11

File No 5087 6/26/84 CHICA	GO,IL	A/C Re	g. No. N8048U		Time (Lc1) -	0235 CDT	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -UNITED AIRLI Type of Operation -SCHEDULED,DOI Flight Conducted Under -14 CFR 121 Incident Occurred During -LANDING	NES INC.	Aircraft MINOR Fire NONE	C	Fatal rew O ass O	Injur Serious O O		None 3 0
Aircraft Information Make/Model - MCDONNELL-DOUGLAS DC-8- Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 315000 No. of Seats - 5		odel - P&W ines - 4 e - TUR	JT3D-3 BOFAN	ELT	Installed/A Stall Warnir		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 220/005 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 10000 FT Lowest Ceiling - 10000 FT BROK Obstructions to Vision- NONE Precipitation - RAIN Condition of Light - NIGHT(DARK)	NEWARK,NJ Destination CHICAGO,II ATC/Airspace Type of Flig EN Type of Clea	L ght Plan - arance -		ON AI Airport O'HAR Runwa Runwa Runwa	Data E y Ident - y Lth/Wid - y Surface -		200
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLANE	Age - UNK/NR Biennial Flight Ro Current Months Since Aircraft Type	eview - YES - UNK/NR	Total	light Time (- UNK/NR - UNK/NR - UNK/NR	Hours) Last 24 Last 30 Last 90	L Hrs - UN	IK/NR IK/NR IK/NR
DURING THE LANDING ROLL, THE LEFT MAIN GEAR ST FROM THE MAIN STRUT AND DRAG ALONG THE RWY. TO FAILURE, IT HAD 4459 HRS SINCE OVERHAUL. METAL 40% OF PIN X-SECTION, 2) EVIDENCE OF STRESS CO OF COPPER, SOMETIMES USED BEFORE CHROMIUM PLAT PREEXISTANT CRACK AND 5) INDICATIONS THAT FIN	HE LEFT MAIN GEAR I LLURGICAL STUDY OF DRROSION FROM OVER TING DURING OVERHAI	BOGIE WAS THE SWIVE TORQUING T UL, FOUND	LAST OVERHAULE L PIN REVEALED HE NUT ON THRE IN CRACK, 4) N	ED IN 1981. A D, 1) INTERGR EADED END OF	T THE TIME (ANULAR CRACK PIN, 3) TRAC	OF KING THRU	
	PAGE-	130					

File No. - 5087

6/26/84

CHICAGO, IL

A/C Reg. No. N8048U

Time (Lc1) - 0235 CDT

Occurrence

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation LANDING - ROLL

Finding(s)

1. MAINTENANCE - INADEQUATE - PILOT IN COMMAND

- 2. LANDING GEAR, MAIN GEAR ATTACHMENT OVERTORQUE
- 3. LANDING GEAR, MAIN GEAR ATTACHMENT STRESS CORROSION
- 4. LANDING GEAR, MAIN GEAR ATTACHMENT FAILURE, TOTAL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,3,4

Factor(s) relating to this incident is/are finding(s) 2

	/27/84 CHICAG	0,IL	A/C Reg.	No. N1852U	7	ime (Lc1) -	1318 CDT	
Basic Information Type Operating Certifica			Aircraft D	amage		Injur		
Name of Carrier Type of Operation Flight Conducted Under Incident Occurred During	-SCHEDULED,DON -14 CFR 121 -TAKEOFF	ES ESTIC,PASSENGER	MINOR Fire NONE		Fatal rew O ass O	Serious O O	Minor O O	None 11 265
Aircraft Information Make/Model - MCDONNEL Landing Gear - TRICYCLE Max Gross Wt - 565000 No. of Seats - 345	L-DOUGLAS DC-10-	Number Eng	lodel - GE CF lines - 3 le - TURBO			Installed/A Stall Warnin		
Environment/Operations Info Weather Data Wx Briefing - NWS Method - TELETY		Itinerary Last Depart SAME AS A			OFF A	Proximity IRPORT/STRIP		
Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 200/020 Visibility - 15.0 Lowest Sky/Clouds - Lowest Ceiling Obstructions to Vision Precipitation Condition of Light	SM 10000 FT SCATI - UNK/NR - NONE - NONE	Type of Cle	ght Plan - I	FR	Runwa) Runway		N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s ATP SE LAND,ME LAND		Age - UNK/NR Biennial Flight F Current Months Since Aircraft Type	Review - YES - UNK/NR	Make/Model	light Time (H - UNK/NR - UNK/NR - UNK/NR	Hours) Last 24 Last 30 Last 90	. Hrs - UN) Days- UN) Days- UN aft - UN	IK/NR IK/NR
Instrument Rating(s)	- AIRPLANE							
	ENGINE WAS SHUT	T DOWN AND THE ACE	T MADE AN UN	EVENTFUL LAN	DING AT THE	DEPARTURE		

File No. - 5113 10/27/84 CHICAGO,IL A/C Reg. No. N1852U Time (Lc1) - 1318 CDT

Occurrence
Phase of Operation

LOSS OF POWER(PARTIAL) - MECH FAILURE/MALF

Phase of Operation CLIMB - TO CRUISE

Finding(s)

1. TURBINE ASSEMBLY, TURBINE BLADE - FAILURE, TOTAL

- 2. TURBINE ASSEMBLY, TURBINE BLADE SEPARATION
- 3. TURBINE ASSEMBLY, CASING PENETRATED
- 4. NACELLE/PYLON, FAIRING SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Basic Information Type Operating Certificate-NONE (GENERAL AVIATION) Aircraft Damage Type of Operating Certificate-NONE (GENERAL AVIATION) Type of Operating Type of Operating Type of Operation Type of Operation Type of Operation Type of Operation Thight Conducted Under Type of Operation Type of		WHEELING, IL	A/C Reg. No.	N21YF	Т	ime (Lcl) -	1500 C	ST
Type of Operation -TEST FLIGHT Fire Crew 0 0 0 Flight Conducted Under -14 CFR 91 NONE Pass 0 0 0 O Incident Occurred During -TAKEOFF NONE Pass 0 0 0 O O O O O O O O O O O O O O O O		GENERAL AVIATION)		e	Fotol	•		None
Flight Conducted Under -14 CFR 91	Type of Openation TEST FL	TOUT		0		-		
Incident Occurred During -TAKEOFF Aircraft Information Make/Model - CESSNA T210L Landing Gear - TRICYCLE-RETRACTABLE MAX Gross Wt - 3400 No. of Seats - 6 Rated Power - 285 HP Environment/Operations Information Weather Data Weather Data Method - N/A Completeness - N/A Completeness - N/A Basic Weather - VMC Wisibility - 15.0 Lowest Sky/Clouds - CLEAR Usibility - 15.0 Lowest Sky/Clouds - CLEAR Obstructions to Vision - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SEA MAXE / SACMING Current - UNK/NR Monts Since - UNK/NR Monts Since - UNK/NR Monts Since - UNK/NR Monts Since - UNK/NR Make/Model - CONTINENTAL TSIO-520-H ELT Installed/Activated - UNI Stall Warning System - YE Stall Warni					_	_	-	1
Make/Model - CESSNA T210L Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3400 No. of Seats - 6 No. of Se			NUNE	rass	U	U	O	
Make/Model - CESSNA T210L Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3400 No. of Seats - 6	·Aircraft Information							
Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3400 No. of Seats - 6 Rated Power - 285 HP -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed - CALM Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Usest Sky/Clouds - CLEAR Destructions to Vision- Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL Same A Sacc INC SAME AS ACC/INC Airport Data Airport Proximity ON AIRPORT ON AIRPORT Airport Data Airport Proximity ON AIRPORT Airport Data Airport Data Airport Proximity ON AIRPORT Airport Data Airport Proximity ON AIRPORT Airport Data Airport Proximity ON AIRPORT Airport Proximity ON AIRPOR		Eng Make/Mod	del - CONTINENTA	AL TSI0-520-	H ELT	Installed/A	ctivate	d - UNK/NE
Max Gross Wt - 3400 No. of Seats - 6 Rated Power - 285 HP Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wisibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Competiting - NONE Completeness - N/A Basic Weather - VMC Wisibility - 15.0 SM ATC/Airspace Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Lowest Ceiling - NONE Precipitation - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) SE LAND, ME LAND Engine Type - RECIP-FUEL INJECTED Rated Power - 285 HP - Airport Proximity ON AIRPORT ON AIRPORT Airport Data Airport Data Charlotte ON AIRPORT ON	·							
No. of Seats - 6 Rated Power - 285 HP Environment/Operations Information Weather Data Itinerary Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 15.0 SM Local Local Visibility - 15.0 SM ATC/Airspace Lowest Sky/Clouds - CLEAR Cowest Sky/Clouds - CLEAR Completeness - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL COMMERCIAL Rated Power - 285 HP Airport Proximity ON AIRPORT Airport Data Airport Proximity ON AIRPORT Ai				LINJECTED	•		.9 0,010	
Weather Data Wx Briefing - NO RECORD OF BRIEFING		5 7.						
Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL Completeness - N/A Last Departure Point SAME AS ACC/INC Destination Last Departure Point SAME AS ACC/INC Airport Data	Environment/Operations Information							
Method - N/A SAME AS ACC/INC Completeness - N/A Destination Airport Data Basic Weather - VMC LOCAL PALWAUKEE Wind Dir/Speed- CALM Visibility - 15.0 SM ATC/Airspace Runway Ident - 12L Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - CONCRETE Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT					Airport	Proximity		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 15.0 SM LOCAL Visibility - 15.0 SM LOWEST Sky/Clouds - CLEAR LOWEST Ceiling - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL COMMERCIAL COMMERCIAL COMMERCIAL Bestination LOCAL LOCAL PALWAUKEE Runway Ident - 12L Runway Lth/Wid - 4447/ 50 Runway Surface - CONCRETE Runway Status - DRY ONNE Precipitation - NONE Type Apch/Lndg - NONE Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Flight Time (Hours) Current - UNK/NR Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Wx Briefing - NO RECORD OF BRI		re Point			•		
Basic Weather - VMC	Method - N/A	SAME AS AC	C/INC					
Wind Dir/Speed- CALM Visibility - 15.0 SM ATC/Airspace Runway Ident - 12L Visibility - 15.0 SM ATC/Airspace Runway Lth/Wid - 4447/ 50 Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - CONCRETE Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - DRY Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 43 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Completeness - N/A	Destination			Airport D	ata		
Visibility - 15.0 SM ATC/Airspace Runway Lth/Wid - 4447/ 50 Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - CONCRETE Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - DRY Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 43 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Basic Weather - VMC	LOCAL			PALWAU	KEE		
Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - CONCRETE Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 43 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Wind Dir/Speed- CALM				Runway	Ident ·	- 12L	
Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 43 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Visibility - 15.0 SM	ATC/Airspace			Runway	Lth/Wid ·	4447/	50
Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 43 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model - 150 Last 30 Days- UNK/NR	Lowest Sky/Clouds - CLEAR	Type of Fligh	nt Plan - NONE		Runway	Surface -	- CONCRE	TE
Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 43 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model - 150 Last 30 Days - UNK/NR	Lowest Ceiling - NONE	Type of Clear	rance - VFR		Runway	Status -	- DRY	
Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 43 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND, ME LAND Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Obstructions to Vision- NONE	Type Apch/Lno	dg - NONE		•			
Personnel Information Pilot-In-Command Age - 43 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND,ME LAND Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Precipitation - NONE							
Pilot-In-Command Age - 43 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND,ME LAND Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Condition of Light - DAYLIGHT	Ī						
Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND,ME LAND Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Personnel Information							
COMMERCIAL Current - UNK/NR Total - 3000 Last 24 Hrs - UNK/NR SE LAND,ME LAND Months Since - UNK/NR Make/Model- 150 Last 30 Days- UNK/NR	Pilot-In-Command	Age - 43	Medica) WAIVER	S/LIMIT
SE LAND, ME LAND Months Since - UNK/NR Make/Model - 150 Last 30 Days - UNK/NR	<pre>Certificate(s)/Rating(s)</pre>			Fligh				
	COMMERCIAL			tal -	3000			
Aircraft Type - UNK/NR Instrument- UNK/NR Last 90 Days- UNK/NR	SE LAND, ME LAND	Months Since				Last 30	Days-	UNK/NR
		Aircraft Type	- UNK/NR · In:	strument- UN	JK/NR	Last 90	Days-	UNK/NR
Multi-Eng - 1500 Rotorcraft - UNK/NR			Mu	lti-Eng -	1500	Rotorci	raft -	UNK/NR
Instrument Rating(s) - AIRPLANE	Instrument Rating(s) - AIRPLA	ANE						

File No. - 5075 11/03/84 WHEELING, IL A/C Reg. No. N21YF Time (Lc1) - 1500 CST

Occurrence Phase of Operation AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

TAKEOFF

Finding(s)

- 1. ELECTRICAL SYSTEM, ELECTRIC WIRING INADEQUATE
- 2. MAINTENANCE, INSTALLATION INADEQUATE -
- PROCEDURE INADEQUATE, CONDITION(S)/STEP(S) INSUFFICIENTLY DEFINED MANUFACTURER
- 4. FLT CONTROL SYST, ELEVATOR CONTROL JAMMED
- 5. ABORTED TAKEOFF PERFORMED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,3,4

Brief of Incident

File No 5093 11/05/84 CHICA	GO,IL A/C Reg	g. No. N97RE	Time (Lc1) - 1030 C	S T
Basic Information Type Operating Certificate-NONE (GENERA			Injuries	Mari
Type of Operation -EXECUTIVE/CO Flight Conducted Under -14 CFR 91 Incident Occurred During -APPROACH	NONE RPORATE Fire NONE	Fata1 Crew O Pass O	Serious Minor O O O O	None 2 8
Aircraft Information Make/Model - ROCKWELL INT'L NA-265-2 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 20372 No. of Seats - 10	Number Engines - 2 Engine Type - TURE		T Installed/Activated Stall Warning System	
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - UNK/NR Wind Dir/Speed- 330/011 KTS Visibility - 9.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 2000 FT OVER Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT		OFF Airport O'HA Runy Runy IFR Runy	et Proximity AIRPORT/STRIP Data RE INTERNATIONAL Vay Ident - 27L Vay Lth/Wid - 10141/ Vay Surface - ASPHAL Vay Status - DRY	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND,ME LAND	Age - UNK/NR ! Biennial Flight Review Current - YES Months Since - UNK/NR Aircraft Type - UNK/NR	Medical Certificate - VAL Flight Time Total - 11100 Make/Model- UNK/NR Instrument- UNK/NR Multi-Eng - UNK/NR		2 50 150
Instrument Rating(s) - AIRPLANE				
ACFT CONTROL WAS TEMPORARILY LOST WHEN 36 DEG LEADING EDGE OF THE WING. RAISING THE FLAPS T WAS ACCOMPLISHED AT A HIGHER THAN NORMAL AIRS ANTI-ICE SYSTEMS WERE ON AT THE TIME OF THIS FROM LIGHT RIME TO SEVERE CLEAR ICING. LIGHT	O 20 DEGS ALLEVIATED THE CON PEED. THE ACFT IS CERTIFIED INCIDENT. PLT REPORTS AT THE	FROL PROBLEM AND AN UNEVE FOR FLT INTO ICING CONDIT TIME MENTIONED ICING CON	ENTFUL LANDING FIONS AND ALL	

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File No. - 5093 11/05/84 CHICAGO, IL A/C Reg. No. N97RE Time (Lc1) - 1030 CST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE Finding(s) 1. WEATHER CONDITION - ICING CONDITIONS 2. FLIGHT INTO KNOWN ADVERSE WEATHER - PERFORMED - PILOT IN COMMAND 3. ANTI-ICE/DE-ICE SYSTEM, WING - INADEQUATE 4. WING - ICE Occurrence #2 ALTITUDE DEVIATION,UNCONTROLLED Phase of Operation CRUISE Finding(s) 5. REMEDIAL ACTION - PERFORMED - PILOT IN COMMAND The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3,4 Factor(s) relating to this incident is/are finding(s) 1

NONE (GENERAL AVIATION)		1175P	1 111	ne (Lc1) -	1941 C	SI
	Aircraft Damage			Injur		
	MINOR		Fatal	Serious	Minor	None
TEST FLIGHT	Fire	Crew	0	0	0	1
14 CFR 91	NONE	Pass	0	0	0	0
SA-26AT Eng Mak	e/Model - GARRETT TPE	331-1-151G	ELT Ir	nstalled/A	ctivate	d - YES-UNK/N
			•		9 -,	
			linnort Pr	ovimity		
	antuna Point					
·			ON AIRFO	JK I		
	•	٨	innont Dat	t a		
		~	•		D	
	S ACC/ INC				•	
						150
FOOD FT OVERCAST Type of	Clearers VED		•			ı
		DATTERN	Runway :	status -	UKT	
	FULL SI	OP				
AYLIGHI						
Age - 34	Medical				WAIVER	S/LIMIT
Biennial Fligh	ıt Review	Flight	Time (Hou			
Current	- YES Tota					
Months Sir		e/Mode1-	50	Last 30	Days-	UNK/NR
Aircraft T	ype - UNK/NR Inst	trument-	325	Last 90	Days-	UNK/NR
	Mult	ti-Eng -	290			
AIRPLANE						
	SA-26AT Eng Mak TRACTABLE Number Engine Rated P	SA-26AT Eng Make/Model - GARRETT TPE TRACTABLE Number Engines - 2 Engine Type - TURBOPROP Rated Power - 605 HP ation Itinerary Last Departure Point INDIANAPOLIS,IN Destination SAME AS ACC/INC TS SM ATC/Airspace 5000 FT Type of Flight Plan - NONE 5000 FT OVERCAST Type of Clearance - VFR ONE Type Apch/Lndg - TRAFFIC ONE FULL ST AYLIGHT Age - 34 Medical Biennial Flight Review Current - YES Tota Months Since - 7 Make Aircraft Type - UNK/NR Inst	SA-26AT Eng Make/Model - GARRETT TPE331-1-151G TRACTABLE Number Engines - 2	SA-26AT Eng Make/Model - GARRETT TPE331-1-151G ELT IT TRACTABLE Number Engines - 2 Sta	SA-26AT Eng Make/Model - GARRETT TPE331-1-151G ELT Installed/A TRACTABLE Number Engines - 2 Stall Warnin Engine Type - TURBOPROP Rated Power - 605 HP ation Itinerary Last Departure Point INDIANAPOLIS, IN Destination SAME AS ACC/INC TS SM ATC/Airspace SM ATC/Airspace SM ATC/Airspace FOOO FT Type of Flight Plan - NONE SOOO FT Type of Clearance - VFR Runway Surface - Runway Surface - Runway Status - ONE ONE ONE ONE AYLIGHT Age - 34 Medical Certificate - VALID MEDICAL-NO Biennial Flight Review Current - YES Total - 4250 Last 24 Months Since - 7 Make/Model - 50 Last 30 Aircraft Type - UNK/NR Instrument - 325 Last 90	SA-26AT Eng Make/Model - GARRETT TPE331-1-151G ELT Installed/Activate TRACTABLE Number Engines - 2 Stall Warning Syste

File No. - 5116 2/15/84 INDIANAPOLIS, IN A/C Reg. No. N175P Time (Lc1) - 1941 CST

Occurrence #1 MAIN GEAR COLLAPSED LANDING

Finding(s)

1. LANDING GEAR, MAIN GEAR ATTACHMENT - FATIGUE

Occurrence #2 LOSS OF CONTROL - ON GROUND LANDING - ROLL

Finding(s)

2. DIRECTIONAL CONTROL - NOT POSSIBLE - 3. GROUND LOOP/SWERVE - UNCONTROLLED - ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Basic Information Type Operating Certificate-NONE (GENERAL	AVTATION)	Aircraft D	amade		Injur	ies	
Type operating out the roate none (achemat	. ATTAILUIT)	MINOR	allage	Fatal			None
Type of Operation -BUSINESS		Fire	Cre	w O	0		1
Flight Conducted Under -14 CFR 91		NONE	Pas	s 0	0	0	1
Incident Occurred During -LANDING							
Aircraft Information				•			
Make/Model - ENSTROM F-28A			ING HIO-360-C1		Installed/A		
Landing Gear - SKID					tall Warnin	g System	- YES
Max Gross Wt - 1950			-FUEL INJECTED				
No. of Seats - 3	Rated Pov	ver - 20	95 HP 				
nvironment/Operations Information							
leather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Depar			ON AIR	PORT		
Method - N/A	INDIANAF	· · · · · · · · · · · · · · · · ·					
Completeness - N/A Basic Weather - VMC	Destination SAME AS			Airport Da DELAWA			
Wind Dir/Speed- 210/015 KTS	SAME AS	ACC/ INC				UNK/NR	
Visibility - 4.000 SM	ATC/Airspace	•			Lth/Wid -		
Lowest Sky/Clouds - 5000 FT		light Plan - N	IONE	Runway	Surface -	GRASS/TL	IRF
Lowest Ceiling - 5000 FT BROKE	N Type of Ci	learance - N	IONE			UNK/NR	
Obstructions to Vision- HAZE			ORCED LANDING	•			
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 39 Biennial Flight		dical Certific	ate - VALID ght Time (H		WAIVERS/	LIMIT
COMMERCIAL	Current	- YES				Hrs - III	IK /ND
SE LAND, ME LAND			Make/Model-	75	last 24) Dave- III	IK/ND
HELICOPTER	Aircraft Typ	e - 1 pe - UNK/NR	Instrument-	525	Last 90	Days on	50
, , , , , , , , , , , , , , , , , , ,	o. a. c , ,	5,	Make/Model- Instrument- Multi-Eng -	2500	Rotorc	aft -	75
Instrument Rating(s) - AIRPLANE							
DING TO THE PLT. HE WAS IN A 20 DEG LEFT	BANK WITH AN ATE	RSPEED OF AROL	IT 40 KTS WHEN	THE HELICOP	TER BEGAN		
			IT 40 KTS WHEN SPEED OF ABOUT				

File No 5081	7/03/84 MUNCIE	, IN A/	C Reg. No. N13CM	Time (Lc1) - 1230 EDT
	RAME/COMPONENT/SYSTE	M FAILURE/MALFUNCTION		
Finding(s) 1. ROTOR DRIVE SYSTEM,TA		- FAILURE,TOTAL		
Occurrence #2 FORC Phase of Operation LAND	ED LANDING ING			
Finding(s) 2. AUTOROTATION - PERFOR	MED - PILOT IN COMMAN	ND		
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5060 9/24/84	LAFAYETTE, IN	A/C Reg. No	. N305MM	Τ.	ime (Lc1) -	0945 EST	
Basic Information Type Operating Certificate-NONE (C	GENERAL AVIATION)	Aircraft Dama	ge	Fatal	Injur Serious	tes Minor	None
Type of Operation -BUSINES	:c	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR		NONE	Pass	ŏ	Ö	ő	3
Incident Occurred During -LANDING		HONE	, 433	Ŭ	Ŭ	Ū	ŭ
Aircraft Information							
Make/Model - BEECH A36TC		/Model - LYCOMING	TSI0-520-UB		Installed/A		
Landing Gear - TRICYCLE-RETRACTAE	BLE Number E	ngines - 1		· S	tall Warnir	ng System	- YES
Max Gross Wt - 3600	Engine T	ype - RECIP-FU	EL INJECTED				
No. of Seats - 6	Rated Po	wer - 300 H	IP				
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - FSS		rture Point		OFF AI	RPORT/STRIP	•	
Method - TELETYPE	CHICAGO			_			
Completeness - FULL	Destinatio			Airport D			
Basic Weather - IMC	LAFAYET	TE, IN		LAFAYE			
Wind Dir/Speed- 210/006 KTS	.== /					- N/A	
Visibility - 4.000 SM	ATC/Airspac				Lth/Wid -		
Lowest Sky/Clouds - UNK/NR		light Plan - IFR			Surface -		
Lowest Ceiling - 700 F1		learance - IFR		Runway	Status -	N/A	
Obstructions to Vision- FOG	Type Apch	/Lndg - FORC	ED LANDING				
Precipitation - NONE	_	•					
Condition of Light - DAYLIGH	 						
Personnel Information		861 *		- 115112 /51	D		
Pilot-In-Command	Age - 58		al Certificat	e - UNK/N nt Time (H			
Certificate(s)/Rating(s)	Biennial Flight		riigr otal + UN			Hrs - UN	IZ /NID
COMMERCIAL	Current						
SE LAND, ME LAND			Make/Model- UN	IK/NR	Last 30	Days- UN	K/NK
	Aircraft ly		instrument- UN		Last 90	Days- UN	K/NK
		N	Multi-Eng - UN	IK/NR	KOTOFC	art - UN	K/NR
Instrument Rating(s) - AIRPLA	ANE						
Narrative			Multi-Eng - UN	ik/nr 	Rotorci	raft - UN	K/N
HE PLT REPORTED THAT WHEN HE LEVELED OF TOFF." WHEN THE SWITCH WAS TURNED OF	F, THE ENG BEGAN TO RU	IN WITH A BIT OF \	/IBRATION, SO	HE RETURN	ED THE SWIT	ГСН	
"ON" & LEFT IT IN THAT POSITION FOR TRING A DESCENT THRU 2300 FT, IN IFR CO	INC REMAINUER OF INC PER	TINATION THE EN	CAUDDED DINN	ITNG THE	DIT WAS IN	ARIF	
RESTART THE ENG. HE REPORTED THAT TH	E VOET BOOKE OUT OF TH	I INMITON, INC EN	OW ALT THE P	NIT CAW A	CHITTADIE	4DLC	
ELD & LANDED, BUT THE ACFT RECEIVED M						JE	
ELD & LANDED, BUT THE ACTT RECEIVED M. SS OF POWER WAS IDENTIFIED.	INUK DAMAGE. ITE ENG U	PERAIED NURMALLY	DUKING A KUN-	OF. NO RE	ASUN FUR II	1L	
35 OF PUWER WAS IDENTIFIED.							

File No 50	60 9/24/84 LAFAYETTE,IN	A/C Reg. No. N305MM	Time (Lc1) - 0945 EST
Occurrence #1 Phase of Operation			
Finding(s) 1. UNDETERMINED			
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
Finding(s) 2. WEATHER CONDITI			
Phase of Operation			
Probable Cause			
The National Transpo	rtation Safety Board determines that	the Probable Cause(s) of this incide	ent

Factor(s) relating to this incident is/are finding(s) 2

File No 5031 3/08/84 ERLAI	NGER,KY	A/C Reg. No.	N794N	Ti	me (Lc1) -	0742 FST	
		A/O Neg. No.					
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -PIEDMONT AV Type of Operation -SCHEDULED, DO Flight Conducted Under -14 CFR 121	- FLAG/DOMESTIC	Aircraft Damag NONE Fire	ge Crew	Fataî O	Injur Serious O	ries Minor O	None 5
Flight Conducted Under -14 CFR 121 Incident Occurred During -LANDING	SHESTIS, FAX, SARGS	NONE	Pass Other	ŏ o	0	0	17 8
Aircraft Information Make/Model - BOEING 737-200 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 90000 No. of Seats - 112	Number Eng Engine Typ Rated Powe	fodel - P & W JT8 gines - 2 pe - TURBOJET er - 15500 LE			installed/Æ		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE	Itinerary Last Depart LOUISVILL	ure Point		Airport F ON AIRF			
Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 100/010 KTS Visibility300 SM Lowest Sky/Clouds - 300 FT Lowest Ceiling - 300 FT OBS Obstructions to Vision- BLOWING SNOW Precipitation - SNOW Condition of Light - DAYLIGHT	Destination SAME AS A ATC/Airspace Type of Fli CURED Type of Cle	•		Runway Runway Runway	CINCINNAT	- 36 - 9500/ - CONCRETE	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 38 Biennial Flight F	Review	al Certificate Flight	e - VALID : Time (Ho		WAIVERS/	LIMIT
COMMERCIAL, ATP, FLT ENG SE LAND, ME LAND	Current	- YES To - 4 Ma - B-737 In	otal - UNk ake/Model- 2 nstrument- UNk ulti-Eng - UNk	C/NR 2400 C/NR	Last 24 Last 30 Last 90	4 Hrs - UN Days- UN Days- UN raft - UN	K/NR K/NR
Instrument Rating(s) ~ AIRPLANE							
Narrative HILE THE ACFT WAS ABOUT 15 MI SW OF THE ARP ROUND CONTROLLER PERMISSION TO CLEAR SNOW R NTERSECTION OF RWY 27L. THE ACFT REPORTED A HE CONTROLLERS AS TO THE STATUS OF THE SNOW DTATING BEACON OF ONE OF THE VEHICLES ABOUT HE 8 VEHICLES BY AN ESTIMATED 10 FT. THE RW	EMOVAL EQUIPMENT TO T THE OUTER MARKER REMOVAL EQUIPMENT. 1,000 FT AHEAD.	D PROCEED NORTH (& WAS CLEARED TO . JUST AFTER TOUG THE CAPTAIN MADE	ON RWY 36 & TO D LAND. THERE CHDOWN THE CAP AN IMMEDIATE	EXIT RWY WAS NO CO PTAIN OBSE	7 36 AT THI DNVERSATION ERVED THE A	E N BETWEEN AMBER	
· · · · · · · · · · · · · · · · · · ·	PAGE	- 444					

File No. - 5031 3/08/84 ERLANGER,KY A/C Reg. No. N794N Time (Lc1) - 0742 EST

Occurrence MISCELLANEOUS/OTHER Phase of Operation LANDING

Finding(s)

- 1. WEATHER CONDITION LOW CEILING
- 2. WEATHER CONDITION SNOW
- 3. WEATHER CONDITION OBSCURATION
- 4. CONTROL TOWER SERVICE INADEQUATE ATC PSNL(LCL/GND/CLNC)
- 5. OBJECT VEHICLE
- 6. ABORTED LANDING PERFORMED PILOT IN COMMAND
- 7. GO-AROUND INITIATED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 4

Factor(s) relating to this incident is/are finding(s) 1,2,3,5

File No 5070 5/17/84 COVIN	GTON, KY	A/C Reg. I	No. N723RW	т	ime (Lc1) -	1723 EDT	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -REPUBLIC AIR Type of Operation -SCHEDULED,DO Flight Conducted Under -14 CFR 121 Incident Occurred During -STANDING	- FLAG/DOMESTIC LINES, INC. MESTIC,PASSENGER	Aircraft Da NONE Fire NONE	mage Crew Pass		Injur Serious O 1	ies Minor O 12	None 7 138
Aircraft Information Make/Model - BOEING 727 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 142000 No. of Seats - 145	Eng Make/M Number Eng Engine Typ Rated Powe	e - TURBOJ	ĒΤ		Installed/A tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - TELETYPE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 15.0 SM Lowest Sky/Clouds - 25000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	DETROIT,M ATC/Airspace TERED Type of Fli	,TN I ght Plan - IF arance - IF ndg - ST FU		ON AIR Airport D GREATE Runway Runway Runway Runway	ata R CINCINNAT	UNK/NR UNK/NR UNK/NR	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP,CFI SE LAND,ME LAND,ME SEA HELICOPTER	Age - 48 Biennial Flight R Current Months Since Aircraft Type	eview - UNK/NR - UNK/NR	ical Certifica Fligi Total - Make/Model- Instrument- UI Multi-Eng - UI	ht Time (F 18730 350 NK/NR	lours) Last 24 Last 30 Last 90	Hrs -	43 IK/NR IK/NR
Instrument Rating(s) - AIRPLANE,HENarrative AFTER LEVELING AT FL330, THE #2 ENG FIRE WARN SHUT DOWN THE ENG & USED A FIRE BOTTLE. THEY FIRE DEPT PERSONNEL MONITORED THE ACFT & RADI CREW WHILE TAXIING. FIRE TRUCK PERSONNEL REPO RELAYED THE INFO WITHOUT THE WORDS "SMALL AMO SLIDES. 1 PASSENGER WAS SERIOUSLY INJURED WHE THE SHOE'S HEEL CAME OFF. INVESTIGATION REVEA DETECTOR. THE FLT ATTENDANTS (F/A) WERE NOT P RENDERING IT UNUSABLE. SOME PASSENGERS TRIED	ING LIGHT & BELL A THEN DIVERTED TO C OED INFO TO GROUND RTED SEEING A "SMA UNT." SUBEQUENTLY, N A SLIDE BURST. T ILED THERE WAS A FA ROPERLY BRIEFED. 1	INCINNATI & M CONTROL. IN LL AMOUNT" OF THE ACFT WAS HERE WAS EVID LSE FIRE WARN F/A UNHOOKED	ADE A PRECAUTI TURN, GROUND C SMOKE FROM TH STOPPED & WAS ENCE IT WAS PUI ING INDICATION A GIRT BAR BE	ONARY LAND ONTROL REL E #1 ENG. EVACUATED NCTURED BY DUE TO A FORE OPENI	ING. AFTER AYED INFO TO THE TOTAL TH	LANDING, TO THE TROL ESCAPE IL AFTER	

File No. - 5070

5/17/84

COVINGTON, KY

A/C Reg. No. N723RW

Time (Lc1) - 1723 EDT

Occurrence #1

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation CRUISE - NORMAL

Finding(s)

1. FIRE WARNING SYSTEM, POWERPLANT - SHORTED

- 2. FIRE WARNING SYSTEM, POWERPLANT FALSE INDICATION
- 3. FIRE EXTINGUISHING EQUIPMENT SELECTED PILOT IN COMMAND
- 4. FLIGHT TO ALTERNATE DESTINATION PERFORMED PILOT IN COMMAND
- 5. PRECAUTIONARY LANDING PERFORMED PILOT IN COMMAND

Occurrence #2

MISCELLANEOUS/OTHER

Phase of Operation STANDING - ENGINE(S) NOT OPERATING

Finding(s)

- 6. CREW/GROUP COORDINATION INADEQUATE -
- 7. DOOR, EMERGENCY EXIT OTHER
- 8. EMERGENCY EQUIPMENT IMPROPER USE OF OTHER CREW MEMBER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

Factor(s) relating to this incident is/are finding(s) 6,8

File No 5118 12/20/84	NEW ORLEANS,LA	A/C Reg. No.	DABYP	Time (Lc1) -	1535 CST	
Basic Information Type Operating Certificate-AII	R CARRIER - FLAG/DOMESTIC	Aircraft Damage	!	Injur	ies	
Name of Carrier -LUI	THANSA GERMAN AIRLINES	NONE	Fata		Minor	None
Type of Operation -NOI Flight Conducted Under -14	N SCHED, INTL, PASSENGER	Fire	Crew O	-	0	18
Incident Occurred During -AP		NONE	Pass O Other O	_	0 0	346 1
Aircraft Information			·			
Make/Model - BOEING 747-200		Model - GE CF6-50	E	LT Installed/A		
Landing Gear - TRICYCLE-RETRA		gines - 4		Stall Warnir	g System	- YES
Max Gross Wt - 733000 No. of Seats - UNK/NR	Engine Typ Rated Powe					
Environment/Operations Informat						
Weather Data	Itinerary			rt Proximity		
W× Briefing - UNK/NR Method - UNK/NR	Last Depart FRNKFRT, (AIRPORT/STRIP		
Completeness - UNK/NR	Destination		Airpor			
Basic Weather - VMC	NEW ORLE	ANS, LA		ORLEANS INTL	. ~	
Wind Dir/Speed- 180/010 KTS	ATO /A /				19	450
Visibility - 7.0 SM Lowest Sky/Clouds - 200	ATC/Airspace OO FT SCATTERED Type of Fl	imbt Dien - IED		way Lth/Wid - way Surface -		
		earance - IFR		way Surrace - way Status -		
Obstructions to Vision- NONI Precipitation - NONI	Type Apch/I	Lndg - ILS-BA		way Status	DKT	
Condition of Light - DAYI		PRECAL	TIONARY LANDIN			
Personnel Information					TV506 /1 TIM	
Pilot-In-Command	Age - 47		Certificate - VA		IVERS/LIM	.11
Certificate(s)/Rating(s) ATP	Biennial Flight i		Flight Time al - 12000		Hrs - UN	L /ND
ME LAND	Current Months Since	- UNK/NR Tot	:al - 12000 :e/Model- UNK/NR		Days- UN	
ME LAND	Months Since Aircraft Type		strument- UNK/NR	Last 90		
	Africiant Type		ti-Eng - UNK/NR		aft - UN	
Instrument Rating(s) - A	RPLANE					
			WAS VESTSES FOR		750	
RING ARRIVAL, A BOEING 747, REGIST CKCOURSE APCH TO RWY 19 AT THE NEW						
THE ARRIVAL CONTROLLER TO CONTACT						
FR CODED TARGET APPEAR ON THE RAI						
AT TIME, ANOTHER CONTROLLER WAS T						
KING A STEEP TURN TO THE RIGHT. THE						
GHT PLANE WAS NEVER IDENTIFIED & \						
				ADOLL MAG AT T		
PLACE AT NEW ORLEANS. THE NEAR CO						

File No. - 5118 12/20/84 NEW ORLEANS,LA A/C Reg. No. DABYP Time (Lc1) - 1535 CST

Occurrence
Phase of Operation

NEAR COLLISION BETWEEN AIRCRAFT

Phase of Operation APPROACH - IAF TO FAF/OUTER MARKER (IFR)

Finding(s)

- 1. APPROACH CHARTS INADEQUATE
- INSUFFICIENT STANDARDS/REQUIREMENTS, AIRWAYS/AIRSPACE FAA(ORGANIZATION)
- 3. JUDGEMENT POOR PILOT OF OTHER AIRCRAFT
- 4. VISUAL LOOKOUT INADEQUATE PILOT OF OTHER AIRCRAFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3,4

Factor(s) relating to this incident is/are finding(s) 1,2

File No 5118 12/20/84	NEW ORLEANS, LA A/C	Reg. No. UNK		Time (Lc1) -	1535 CST	
Basic Information Type Operating Certificate-NONE (G	ENERAL AVIATION) Aircra	ft Damage	Fatal	Injur Serious		None
Type of Operation -UNKNOWN Flight Conducted Under -UNKNOWN	Fire	P	rew 0 ass 0	0	0	1
Incident Occurred During -CRUISE			ther 0	0	0	364
Aircraft Information Make/Model - UNKNOWN UNKNOWN Landing Gear - UNK/NR Max Gross Wt - UNK/NR No. of Seats - UNK/NR				Installed/A Stall Warnin		
Environment/Operations Information						
Weather Data Wx Briefing - UNK/NR Method - UNK/NR	Itinerary Last Departure Poin UNKNOWN	t		Proximity IRPORT/STRIP		
Completeness - UNK/NR Basic Weather - VMC	Destination UNKNOWN		Airport	Data		
Wind Dir/Speed- 180/010 KTS [.] Visibility - 7.0 SM	ATC/Airspace			y Ident - y Lth/Wid -	N/A N/A	
Lowest Sky/Clouds - 2000 FT	SCATTERED Type of Flight Plan		Runwa	y Surface -		
Lowest Ceiling - 25000 FT Obstructions to Vision- NONE Precipitation - NONE	BROKEN Type of Clearance Type Apch/Lndg	- UNK/NR - NONE	Runwa	y Status -	N/A	
Condition of Light - DAYLIGHT		PRECAUTIONARY	LANDIN			
Personnel Information Pilot-In-Command	Age - UNK/NR	Medical Certif				
Certificate(s)/Rating(s) UNK/NR	Biennial Flight Review Current - UNK/N	D Total	light Time (1 25+ 24	Hrs - UN	k/NP
	Months Since - UNK/N Aircraft Type - UNK/N	R Make/Mode1	- UNK/NR - UNK/NR	Last 30 Last 90	Days- UN Days- UN aft - UN	K/NR K/NR
Instrument Rating(s) - UNK/NR		_				
DURING ARRIVAL, A BOEING 747, REGISTRATI BACKCOURSE APCH TO RWY 19 AT THE NEW ORL BY THE ARRIVAL CONTROLLER TO CONTACT THE A VFR CODED TARGET APPEAR ON THE RADAR. THAT TIME, ANOTHER CONTROLLER WAS TRANSM MAKING A STEEP TURN TO THE RIGHT. THE OT LIGHT PLANE WAS NEVER IDENTIFIED & WAS N IN PLACE AT NEW ORLEANS. THE NEAR COLLISOF THE TCA. VFR FLT UP TO THE BOTTOM OF	EAN INTL ARPT. WHILE ON THE APC TOWER ON ANOTHER FREQUENCY. SH HE ATTEMPTED TO ADVISE THE NOEI ITTING. THE BOEING CREW SAW THE HER ACFT WAS A LIGHT SINGLE ENG OT OBSERVED TO TAKE EVASIVE ACT ION OCCURRED WHERE THE MIN ALT	H AT 2000 FT MSL DRTLY AFTER THAT NG CREW BY USING ACFT CCMING HEA PLANE THAT WAS ION. A GROUP II FOR THAT PART OF	, THE AIRCRE , THE ARRIVA AN OVERRIDE D-ON & TOOK FLYING AT 20 TERMINAL CON THE INSTR A	W WERE INSTR L CONTROLLER E FEATURE, BU EVASIVE ACTI FOO FT MSL. T ITROL AREA (T PCH WAS AT T	UCTED OBSERVED TAT ON BY HE CA) WAS HE BOTTOM	ı

File No. - 5118 12/20/84 NEW ORLEANS,LA A/C Reg. No. UNK Time (Lc1) - 1535 CST

Occurrence
Phase of Operation

NEAR COLLISION BETWEEN AIRCRAFT

Phase of Operation CRUISE

Finding(s)

1. APPROACH CHARTS - INADEQUATE

INSUFFICIENT STANDARDS/REQUIREMENTS, AIRWAYS/AIRSPACE - FAA(ORGANIZATION)

3. JUDGEMENT - POOR - PILOT IN COMMAND

4. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3,4

Factor(s) relating to this incident is/are finding(s) 1,2

-Basic Information							
Type Operating Certificate-NONE (SENERAL AVIATION)	Aircraft Da NONE	mage	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSON	AL.	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR		UNK/NR	Pass	0	0	1	1
Incident Occurred During -LANDING	3						
-Aircraft Information							
Make/Mode1 - BARNES FIREFLY 7		/Model - N/A			Installed/A		
Landing Gear - N/A		ngines - N/A		S	tall Warnin	g System	- NO
Max Gross Wt - 900		/pe - N/A					
No. of Seats - UNK/NR	Rated Po	ver - N/A					
-Environment/Operations Information-							
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BR		rture Point		OFF AI	RPORT/STRIP		
Method - N/A	GORHAM, I						
Completeness - N/A	Destination	ר		Airport D	ata		
Basic Weather - VMC	LOCAL			_			
Wind Dir/Speed- 030/005 KTS	170/11					N/A	
Visibility - 35.0 SM	ATC/Airspace				Lth/Wid -		
	SCATTERED Type of F				Surface -		
Lowest Ceiling - Obstructions to Vision- NONE		learance - NO		Runway	Status -	N/A	
Precipitation - NONE	Type Apch	/Lndg - T0	UCH AND GU				
•	.						
Condition of Light - DAYLIGH	·						
-Personnel Information					_		
Pilot-In-Command			lical Certificat				
Certificate(s)/Rating(s)	Biennial Flight	Review		nt Time (H			
COMMERCIAL	Current	- UNK/NR	Total - UN			Hrs - UN	
EDEC DALLOON		• - UNK/NR	Make/Model - UN	NK/NR	Last 30	Days- UN	IK/NR
FREE BALLOON	Aircraft Ty _l	oe - UNK/NR	Instrument- UN			Days- UN	
			Multi-Eng - UN	NK/NR	ROTORCE	aft - UN	IK/NR
Instrument Rating(s) - NONE							
Manuellin							
-Narrative	I ENGOLINTERED THESE STATE					DAGUET	
ING TOUCH AND GO LANDINGS THE BALLOOP		ע WINDS. THE BA	LLOON TOUCHED (UND.	JUWN HARD	ITELING THE	BASKET	

File No. - 5117 5/07/84 GORHAM,ME A/C Reg. No. N3613D Time (Lc1) - 0645 EDT

Occurrence

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. WEATHER CONDITION - UNFAVORABLE WIND

2. COMPENSATION FOR WIND CONDITIONS - IMPROPER - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 2$

Factor(s) relating to this incident is/are finding(s) 1

File No 5050 6/27/84 POR	LAND, ME	A/C Reg	g. No. N417PE	1	ime (Lc1) -	2334 EDT	
Basic Information Type Operating Certificate-AIR CARRIE	P - FLAG/DOMESTIC	Aircraft	Damage		Injur	ies	
Name of Carrier -PEOPLE EXP		MINOR	Jamage .	Fatal	Serious	Minor	None
Type of Operation -SCHEDULED,		Fire	Cre		0	0	7
Flight Conducted Under -14 CFR 121		NONE	Pas		ŏ	2	114
Incident Occurred During -DESCENT					_		
-Aircraft Information							
Make/Model - BOEING 737-130	Eng Make/N	lodel - P&W	JT8D9		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng	jines - 2		ġ	Stall Warnir	ng System	- YES
Max Gross Wt - 97800	Engine Typ	e - TURI	3OF AN				
No. of Seats - 100	Rated Powe	er - 140	000 LBS THRUST				
-Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - COMPANY	Last Depart	ture Point		ON AIF	RPORT		
Method - IN PERSON	NEWARK, No	j					
Completeness - FULL	Destination			Airport [Data		
Basic Weather - VMC	PORTLAND,	ME		PORTLA	AND		
Wind Dir/Speed- 200/006 KTS						- 11	
Visibility - 10.0 SM	ATC/Airspace			Runway	/ Lth/Wid ·	- 6800/	150
Lowest Sky/Clouds - 25000 FT TH	N BKN Type of Fli	ight Plan -	IFR	Runway	/ Surface ·	- MACADAM	
Lowest Ceiling - NONE	Type of Cle	earance -	IFR	Runway	/ Status ·	- DRY	
Obstructions to Vision- NONE	Type Apch/L	_ndg -	STRAIGHT-IN				
Precipitation - NONE		-					
Condition of Light - NIGHT(DARK)							
-Personnel Information							
Pilot-In-Command	Age - 37		Medical Certifi			D WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight F	Review		ight Time (F			
ATP	Current	- YES	Total -	UNK/NR		4 Hrs - UN	
SE LAND, ME LAND, SE SEA	Months Since		Make/Mode1-			Days- UN	
GLIDER	Aircraft Type	- 737	Instrument-		Last 90		
			Multi-Eng -	UNK/NR	Rotorci	raft - UN	IK/NR
Instrument Rating(s) - AIRPLANE							
TAIN HEARD LOUD "POP" AND OBSERVED AN EL N OFF BUS" LIGHTS. NO GENERATOR AMPS OR GENERATOR ON RT SIDE. "BUS OFF" LIGHT E:	REQS WERE OBSERVED. KTINQUISHED. WITHIN	A MINUTE,	R OF SMOKE. CAP SMOKE LEVEL INC	T STARTED AIREASED. CAP	PU AND PUT T REMOVED A		
LED FOR ELECTRICAL SMOKE AND FIRE CHECKL LED. CREW & PAX PERFORMED EMERGENCY EVAC TROL UNIT OCCURRED IN A CAPACITOR INSTAL ANTI-SKID SYSTEM INOP RESULTING IN THE	JATION. INSPECTION (LED IN THE CIRCUIT.	OF ACFT DIS	CLOSED THE FAIL	URE IN THE	GENERATOR	ED	
The state of the s	THE TREE TO						

File No. - 5050 6/27/84 PORTLAND.ME A/C Reg. No. N417PE Time (Lc1) - 2334 EDT Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation DESCENT - NORMAL Finding(s) 1. ELECTRICAL SYSTEM, VOLTAGE REGULATOR - FAILURE, PARTIAL 2. REMEDIAL ACTION - IMPROPER - PILOT IN COMMAND 3. ELECTRICAL SYSTEM, VOLTAGE REGULATOR - SHORTED 4. APU - IMPROPER USE OF - PILOT IN COMMAND 5. ELECTRICAL SYSTEM - SMOKE Occurrence #2 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 6. LANDING GEAR, ANTI-SKID BRAKE SYSTEM - INOPERATIVE 7. LANDING GEAR, TIRE - FAILURE, TOTAL ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3,6

Factor(s) relating to this incident is/are finding(s) 2,4,5

Brief of Accident/Incident

Basic Information						
Type Operating Certificate-NON	E (GENERAL AVIATION)	Aircraft Damage		Inj	uries	
		SUBSTANTIAL	Fa	tal Serious	Minor	None
	TRUCTIONAL	Fire	Crew	0 0	0	1
Flight Conducted Under -14		NONE	Pass	0 0	0	0
Acc/Inc Occurred During -CRU	ISE - NORMAL					
Aircraft Information						
Make/Model - CESSNA 152		Model - LYCOMING 0-	-235-L2C	ELT Installed	/Activated	- YES/Y
Landing Gear - TRICYCLE-FIXED	Number Er	ngines - 1		Stall Warn	ing System	- YES
Max Gross Wt - 1670	Engine Ty	pe - RECIPROCATI	NG-CARBURETOR			
No. of Seats - 2	Rated Pow	ver - 110 HP				•
Environment/Operations Information	on					
Weather Data	Itinerary		Aire	ort Proximity		
Wx Briefing - UNK/NR	Last Depar	ture Point		F AIRPORT/STR		
Method - UNK/NR		ONTARIO,CD	•		- ·	
Completeness - UNK/NR	Destination		Airpo	ort Data		
Basic Weather - VMC		ONTARIO, CD	· ·	ARINE CITY		
Wind Dir/Speed- 240/020 KTS				unway Ident	- N/A	
Visibility - 15.0 SM	ATC/Airspace			unway Lth/Wid		
Lowest Sky/Clouds - 1500				unway Surface		
Lowest Ceiling - NONE		earance - NONE		unway Status	- N/A	
Obstructions to Vision- NONE		Lndg - FORCED		•	·	
Precipitation - NONE		3				
Condition of Light - DAYL	IGHT					
Personnel Information						
Pilot-In-Command	Age - 17	Medica1	Certificate - '	VALID MEDICAL-	NO WAIVERS	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	Fliaht Ti	me (Hours)		
STUDENT	Current	- N/A Tota	a1 - 50	Last	24 Hrs -	4
	Months Since	e - N/A Make	e/Mode1 - 50	Last	30 Days- UN	IK/NR
	Aircraft Typ	pe - N/A Inst	trument- 0	Last	90 Days-	12
Instrument Rating(s) - NO	Months Since Aircraft Typ	e - N/A Make	e/Mode1- 50	Last	30 Days- UN	

Brief of Accident/Incident (Continued)

File No. - 6006 4/28/84 MARINE CITY, MI A/C Reg. No. CGDPP Time (Lc1) - 1715 EST Occurrence #1 LOSS OF POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. BECAME LOST/DISORIENTED - INADVERTENT - PILOT IN COMMAND 2. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 3. RADIO COMMUNICATIONS - DELAYED - PILOT IN COMMAND 4. FLUID, FUEL - EXHAUSTION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE OVER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. TERRAIN CONDITION - SOFT ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident

is/are finding(s) 1,2,3,4

Factor(s) relating to this incident is/are finding(s) 5

File No 5028 5/	15/84 BATTLE	CREEK,MI	A/C Reg.	No. N708ZW	1	ime (Lc1) -	1410 EDT	
-Basic Information								
Type Operating Certificat			Aircraft Da	mage		Injur	les	
	-AIR WISCONSIN		NONE		Fatal	Serious	Minor	None
Type of Operation Flight Conducted Under	-SCHEDULED, DOM	MESTIC, PASSENGER	Fire	Cre	ew O	0	0	3
Flight Conducted Under Incident Occurred During			NONE	Pas	ss O	0	0	22
-Aircraft Information								
Make/Model - DEHAVILLA	ND DHC-7-102	Eng Make/M	ode1 - P&W PT	6A-5O	ELT	Installed/A	ctivated	- UNK/NR
Landing Gear - TRICYCLE-	RETRACTABLE	Number Eng	ines - 4		9	itall Warnin	g System	- YES
Max Gross Wt - 43500		Engine Typ		ET				
No. of Seats - 59		Rated Powe	r - 1600	HP				
-Environment/Operations Info	rmation							
Weather Data		Itinerary				Proximity		
Wx Briefing - COMPANY		Last Depart			OFF A	RPORT/STRIP	•	
Method - UNK/NR		MUSKEGON,	IN					
Completeness - UNK/NR		Destination			Airport [ata		
Basic Weather - VMC		BATTLE CR	EEK,MI		_			
Wind Dir/Speed- UNK/NR							N/A	
Visibility - 15.0	SM	ATC/Airspace		_		Lth/Wid -		
Lowest Sky/Clouds -	CLEAR		ght Plan - IF			Surface -		
	NONE		arance - IF		Runway	Status -	N/A	
Obstructions to Vision-		Type Apch/L	ndg - UN	K/NR				
Precipitation - Condition of Light -								
condition of Light -			· 					
-Personnel Information Pilot-In-Command		A 0.4	90	ical Certific		ID.		
Certificate(s)/Rating(s)		Age - 34 Biennial Flight R			ight Time (F			
ATP		_					Hrs - UN	K /ND
ME LAND		Months Since	- 1E3	Make/Model-	860	Last 30		
ME EAND		Current Months Since Aircraft Type	- DHC-7	Instrument-	IINK /NB	last 90	Days ON	179
		ATT OF ATT TYPE	2.70	Multi-Eng -	•		aft - UN	
Instrument Rating(s)	- AIRPLANE							
-Narrative								
LE CRUISING AT 7000 FT MSL,							T =	
ISOLE, WHEN HE FELT A "SNAP"								
T BEGAN YAWING LEFT & RIGHT								
SEQUENTLY, THEY LANDED WITH CH LOADS THE SWITCH TO THE N					SPRING, P/	42M4231137	•	
	FILLONI / HEF DIC							

File No 5028	5/15/84	BATTLE CREEK,MI	A/C Reg. No. N708ZW	Time (Lc1) - 1410 EDT	
	FRAME/COMPONE ISE - NORMAL	NT/SYSTEM FAILURE/MALFUN	NCTION		
Finding(s) 1. FLT CONTROL SYST,RUD	DER TAB CONTR	ROL(TRIM) - FATIGUE			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5109 6/13/	/84 PONTIAC,MI	A/C R	eg. No. N2GL	Т	ime (Lc1) -	1120 EDT	-
Basic Information Type Operating Certificate-N	NONE (GENERAL AVI	NONE	t Damage	Fatal	Injur Serious O		None 2
Flight Conducted Under - Incident Occurred During -	14 CFR 91	NONE		ass 0	ŏ	ŏ	7
Aircraft Information Make/Model - FAIRCHILD SA Landing Gear - TRICYCLE-RET Max Gross Wt - 13230 No. of Seats - 10		Eng Make/Model - AI Number Engines - 2 Engine Type - TU Rated Power -			Installed/A tall Warnin		
Environment/Operations Informa Weather Data Wx Briefing - UNK/NR Method - UNK/NR		Itinerary Last Departure Point JANESVILLE,WI			Proximity RPORT/STRIP	,	
Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 290/008 K Visibility - 7.0 S Lowest Sky/Clouds - 12	SM 2000 FT	Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan		Runway Runway	Ident - Lth/Wid - Surface -	N/A	
Lowest Ceiling - 1: Obstructions to Vision- NO Precipitation - NO Condition of Light - D	DNE	Type of Clearance Type Apch/Lndg	- IFR - UNK/NR	Runway	Status -	N/A	
Personnel Information Pilot-In-Command	Age		Medical Certif) WAIVERS,	/LIMIT
Certificate(s)/Rating(s) ATP ME LAND		nial Flight Review Current - UNK/NF Months Since - UNK/NF Aircraft Type - UNK/NF	Total	- 2000 - UNK/NR	Last 24	l Hrs - Ul Days- Ul Days- Ul raft - Ul	NK/NR NK/NR NK/NR NK/NR
Instrument Rating(s) -	AIRPLANE						
Narrative HE AIRCREW NOTICED A "NOSE UP" P RPT PATTERN & TRAFFIC. THE PLT R HE ACFT WAS LANDED WITHOUT FURTH DRIZONTAL STABILIZER TRIM ACTUATO	EPORTED THAT FULL ER INCIDENT. AN I	FORWARD YOKE PRESSURE NVESTIGATION REVEALED	WAS REQUIRED TO	O STOP THE NO	SE UP CONDI	TION.	

File No 5109	6/13/84	PONTIAC, MI	A/C Reg. No. N2GL	Time (Lc1) - 1120 EDT	
	RFRAME/COMPONE CENT - NORMAL	NT/SYSTEM FAILURE/MA	ALFUNCTION		
Finding(s) 1. FLT CONTROL SYST,HOR	RIZ STAB DRIVE	- WORN			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5036 5/17/84 MINN	EAPOLIS, MN	A/C Reg. No	. N150US	T i	me (Lc1) -	1445 CDT	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -NORTHWEST O Type of Operation -SCHEDULED,D Flight Conducted Under -14 CFR 121 Incident Occurred During -CLIMB	RIENT AIRLINES OMESTIC,PAX/CARGO	Aircraft Dama MINOR Fire IN FLIGHT	Crew	Fatal O O	Injuri Serious O O		None 3 236
Aircraft Information Make/Model - MCDONNELL-DOUGLAS DC-1 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 555000 No. of Seats - 284	Number Eng Engine Type	odel - P&W JT90 ines - 3 e - TURBOFA0 4350	V		nstalled/Ac all Warning		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 210/018 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 7500 FT Lowest Ceiling - 7500 FT BRC Obstructions to Vision- BLOWING SNOW Precipitation - NONE Condition of Light - DAYLIGHT	KEN Type of Clea	ght Plan - IFR arance - IFR ndg - PRE		Airport Da Runway Runway Runway Runway DING	PORT/STRIP ita Ident - Lth/Wid - Surface - Status -	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE	Age - O Biennial Flight Re Current Months Since Aircraft Type	Medio	cal Certificat	e - VALID ot Time (Ho 6966 498 UK/NR	MEDICAL-NO burs) Last 24 Last 30 Last 90	Hrs - UN	K/NR K/NR K/NR
DURING CLIMB FROM FL330 TO FL370 THE 1ST OFF SHIELD. COCKPIT LIGHTS WERE TURNED OFF AND SINSPECTION OF THE ACFT DISCLOSED THE FIRE WAFLORESCENT LIGHT UNDERNEATH THE 1ST OFFICER STRETCHED TIGHTLY ACROSS THE LEFT END OF THE SHARP METAL EDGE ON THE LIGHT. INSULATION AND TESTING OF THE CIRCUIT BREAKERS DID NOT DETERMINED	MOKE STOPPED. FLT RI S IN A WIRE BUNDLE I S GLARE SHIELD. THE FLORESCENT LIGHT AI ID FABRIC SLEEVE AROU	ETURNED TO MIN LOCATED BTW CE WIRE BUNDLE (ND WAS FORCED UND THE WIRES	NEAPOLIS AND L NTER OF INSTRU REINSTALLED 4 TO TURN AN ABR	ANDED WITH IMENT PANEL DAYS BEFOR RUPT ANGLE	HOUT INCIDED AND THE RE) WAS ACROSS A	NT.	

File No. - 5036 5/17/84 MINNEAPOLIS, MN A/C Reg. No. N150US Time (Lc1) - 1445 CDT

Occurrence

FIRE

Phase of Operation CLIMB - TO CRUISE

Finding(s)

1. ELECTRICAL SYSTEM, ELECTRIC WIRING - CHAFED

- 2. MAINTENANCE, INSTALLATION IMPROPER COMPANY MAINTENANCE PSNL
- 3. ELECTRICAL SYSTEM, ELECTRIC WIRING ARCING
- 4. ELECTRICAL SYSTEM, ELECTRIC WIRING SMOKE
- 5. ELECTRICAL SYSTEM, ELECTRIC WIRING OVERTEMPERATURE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2

Factor(s) relating to this incident is/are finding(s) 1,3

Damage Injuries Fatal Serious Minor None Crew O O O 7 Pass O O O 120 JT8D ELT Installed/Activated - UNK/N Stall Warning System - YES BOFAN OOO LBS THRUST Airport Proximity OFF AIRPORT/STRIP
Stall Warning System - YES BOFAN OOO LBS THRUST Airport Proximity
Airport Data Runway Ident - N/A Runway Lth/Wid - N/A IFR Runway Surface - N/A IFR Runway Status - N/A UNK/NR
Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Flight Time (Hours) Total - UNK/NR Last 24 Hrs - UNK/NR Make/Model- UNK/NR Last 30 Days- UNK/NR Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR
APID CITY, SD, EN ROUTE FROM MSP TO SFO AT FLT N-FLT INSPECTION REVEALED THAT THE INBOARD INED IN A 7 DEG DOWN POSITION. THE FLT RETURNED A POST FLT INSPECTION DISCLOSED THAT THE

File No 511	2 7/25/84	MINNEAPOLIS, MN	A/C Reg. No.	N721RW	Time (Lc1) - 1450 CDT
Occurrence Phase of Operation	AIRFRAME/COMPONE	NT/SYSTEM FAILURE/MALF	FUNCTION		
Finding(s) 1. FLT CONTROL SYST 2. FLT CONTROL SYST	•	L - PREVIOUS DAMAGE L - FAILURE,PARTIAL			
Probable Cause	-				

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

Brief of Accident/Incident

File No 6004 1/09/84 ST. L0	UIS,MO A/C Re	g. No. CGSCA	Time (Lc1) - 2232 CST				
Basic Information Type Operating Certificate-ON-DEMAND AIR	SUBSTAN	TIAL	Fatal	Injur Serious	Minor	None	
Type of Operation -POSITIONING Flight Conducted Under -14 CFR 91 Acc/Inc Occurred During -LANDING	Fire ON GROU	Crew ND Pass		1 0	0	0	
Aircraft Information Make/Model - DOUGLAS DC-3C Landing Gear - TAILWHEEL-RETRACTABLE MA Max Gross Wt - 25200 No. of Seats - 24	Engine Type - REC		S	Installed/A tall Warnir		•	
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 340/012 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 1400 FT Lowest Ceiling - 1400 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)			OFF AI Airport D LAMBER Runway Runway Runway	T-ST.LOUIS Ident - Lth/Wid - Surface -	- 24 - 7600/		
	Age - 32 Biennial Flight Review Current - YES Months Since - 2 Aircraft Type - DC-3C	Medical Certifica Flig Total - Make/Model- Instrument- U Multi-Eng - U	ht Time (H 4000 1350 NK/NR	ours) Last 24 Last 30 Last 90	Hrs -	5 65 200	
Instrument Rating(s) - AIRPLANE							
THE POLITIES THE AUTHOR OF THE ACTION OF THE AUTHOR OF THE AUTHOR OF THE ACT OF THE OF THE ACT OF THE OF THE ACT OF THE O	THE CARGO WAS UNLOADED & THE FORMANCE. ENG RUN-UPS WERE EOFF, THE AIRCREW CALLED THE WAS "100LL AVGAS." ON THE ETRACTED. THE AIRCREW SELEC NT THRU A FENCE & HIT A HICHAN 100LL FUEL. THE TRUCK OF	E ACFT WAS REFUEL PERFORMED AFTER E E FBO & REQUESTED 3RD ATTEMPT TO D TED A HIGHWAY ON HWAY EMBANKMENT. ONTAINING JET-A F	ED, THE AI ACH ABORT THAT THE EPART, THE WHICH TO LINVESTIGAT	RCREW ABORT & REPORTEDL REFUELER BE ACFT TOOK AND. HOWEVE ION REVEALE	TED THE Y, THE E OFF, BUT ER, THE ED THAT		

Brief of Accident/Incident (Continued)

File No. - 6004 1/09/84 ST. LOUIS,MO Time (Lc1) - 2232 CST A/C Reg. No. CGSCA Occurrence #1 LOSS OF POWER(TOTAL) - NON-MECHANICAL Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. FLUID.FUEL - IMPROPER MAINTENANCE, SERVICE OF AIRCRAFT - IMPROPER - FBO PERSONNEL 3. AIRCRAFT PERFORMANCE, TWO OR MORE ENGINES - INOPERATIVE Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - EMERGENCY Finding(s) 4. OBJECT - UTILITY POLE Occurrence #4 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING Finding(s) 5. OBJECT - FENCE Occurrence #5 ON GROUND COLLISION WITH TERRAIN Phase of Operation LANDING Finding(s) 6. TERRAIN CONDITION - DIRT BANK ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident is/are finding(s) 1,2

Factor(s) relating to this incident is/are finding(s) 4,5,6

File No 5018	3/20/84	KANSAS CITY,MO	A/C Reg. No. N88706 Time (Lc1) - 1120 CST					CST		
Basic Information Type Operating Certific Name of Carrier		RRIER - FLAG/DOMESTIC ENTAL AIRLINES. INC	Aircraft MINOR	Damage	Fat		juries s Minor	None		
Type of Operation	-SCHEDU	LED, DOMESTIC, PAX/CARGO	Fire	(0 Sel-10u	1	7		
Flight Conducted Under	-14 CFR	121	NONE	-		o o	ó	, 70		
Incident Occurred Durin				C	ther	0 1	Ō	O		
Aircraft Information										
Make/Model - BOEING			Model - P&W	JT8D-9A		ELT Installe				
Landing Gear - TRICYCL	E-RETRACTA		gines - 3			Stall War	ning System	- YES		
Max Gross Wt - 142000		Engine Ty			_					
No. of Seats - UNK/NR		Rated Power	er - 145	500 LBS THRUS1						
Environment/Operations In	formation-									
Weather Data	• • • •	Itinerary				ort Proximit	У			
Wx Briefing - COMPA Method - UNK/N		Last Depar			UN	AIRPORT				
Completeness - UNK/N		SAME AS A Destination	ACC/ INC		Ainmo	rt Data				
Basic Weather - VMC	K	DENVER, CO	1		•	TERNATIONAL				
Wind Dir/Speed- 280/0	13 KTS	DENVER, CO	,			nway Ident	- UNK/NR			
Visibility - 7.		ATC/Airspace				nway luent nway Lth/Wid	•			
Lowest Sky/Clouds -		T SCATTERED Type of F1	ight Plan -	TFR		nway Surface				
Lowest Ceiling	- NONE	Type of Cle		IFR		nway Status	- UNK/NR			
Obstructions to Visio	n- NONE	Type Apch/		NONE			•			
Precipitation	- NONE		_							
Condition of Light	- DAYLIGH	T 								
Personnel Information										
Pilot-In-Command		Age - 33		Medical Certif			-NO WAIVERS	/LIMIT		
Certificate(s)/Rating(s)	Biennial Flight I			light Tim			_		
ATP		Current	- YES		- 7726		24 Hrs -	2		
ME LAND		Months Since		Make/Model			30 Days-	73		
		Aircraft Type	e - UNK/NR	Instrument	•		90 Days- rcraft - U	197		
				Multi-Eng	- 5831	ROTO	rcraft - u	NK/NK		
Instrument Rating(s) - AIRPL	ANE								
Narrative										
E TAXIING TO RWY O1 FOR T										
ACFT. HE TRIED TO MANEUVE										
OF THE LT WING. THE DRIV		SNOW REMOVAL VEHICLE ST	ATED THERE \	VAS CONDENSATI	ON ON THE	WINDOWS OF	THE			
AT THE TIME OF THE ACCIDE										

File No. - 5018 3/20/84 KANSAS CITY,MO A/C Reg. No. N88706 Time (Lc1) - 1120 CST

Occurrence
Phase of Operation

ON GROUND COLLISION WITH OBJECT

Phase of Operation TAXI - TO TAKEOFF

Finding(s)

- 1. OBJECT VEHICLE
- 2. VISUAL LOOKOUT INADEQUATE DRIVER OF VEHICLE
- 3. TERRAIN CONDITION SNOW COVERED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2

Factor(s) relating to this incident is/are finding(s) 1,3

File No 5106 6/27/84 JOPLIN	,MO A/C Reg. No.	N233AM T	Ime (Lc1) - 0732 CDT	
Basic Information Type Operating Certificate-COMMUTER Name of Carrier -AIR MIDWEST (Type of Operation -SCHEDULED,DOW Flight Conducted Under -14 CFR 135	Aircraft Damag AMWA) MINOR ESTIC,PASSENGER Fire NONE	e Fatal Crew O Pass O	Injuries Serious Minor O O O O	None 2 13
Aircraft Information Make/Model - SWEARINGEN SA226TC Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 12500 No. of Seats - 19	Eng Make/Model - AIRESEARC Number Engines - 2 Engine Type - TURBOPROP Rated Power - 940 HP	S	Installed/Activated - tall Warning System -	
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- O70/O11 KTS Visibility - 15.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 10000 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC ATC/Airspace Type of Flight Plan - IFR Type of Clearance - IFR Type Apch/Lndg - TRAFF	ON AIRF Airport Da JOPLIN Runway Runway Runway Runway Runway	ata	50
	Age - 35 Medica Biennial Flight Review Current - YES To Months Since - 0 Ma Aircraft Type - SA226 In	l Certificate - VALID Flight Time (Ho tal - 4000 ke/Model- 3000 strument- UNK/NR	ours) Last 24 Hrs -	8 /NR /NR
Instrument Rating(s) - AIRPLANE				
WHILE TAXIING TO TAKEOFF & ON THE TAKEOFF ROLL TIRES ON THE LEFT MAIN LANDING GEAR EXPLODED. UPON ARRIVAL AT THE DEST, THE NORMAL GEAR EXTE UTILIZED. NO FURTHER DAMAGE WAS INCURRED DURIN PARKING BRAKE. MAINTENANCE RECORDS REVEALED TH PARKING BRAKES; MAINTENANCE PERSONNEL COULD NO	., THE LEFT BRAKE OVERHEATED. TEN THE BEARINGS AND BRAKES ALŞO SEIZ NSION SYSTEM WAS INOPERATIVE AND NG THE LANDING. INVESTIGATORS DISC HAT ON JUNE 19 AND 22, DIFFICULTY	TO FIFTEEN MINS AFTER ED DUE TO THE HIGH TEI THE EMERGENCY EXTENSI OVERED A STICKING VAL' WAS REPORTED IN RELEA ETURNED THE ACFT TO S	DEPARTURE BOTH MPERATURES. DN SYSTEM WAS VE IN THE LEFT SING THE ERVICE.	

Time (Lc1) - 0732 CDT File No. - 5106 6/27/84 JOPLIN, MO A/C Reg. No. N233AM Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. LANDING GEAR, NORMAL BRAKE SYSTEM - BINDING (MECHANICAL) 2. PARKING BRAKES - NOT SELECTED -3. MAINTENANCE - INADEQUATE - COMPANY MAINTENANCE PSNL 4. LANDING GEAR, NORMAL BRAKE SYSTEM - OVERTEMPERATURE Occurrence #2 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation CRUISE - NORMAL Finding(s) 5. LANDING GEAR, TIRE - BURST 6. LANDING GEAR, NORMAL RETRACTION/EXTENSION ASSEMBLY - DISABLED 7. LANDING GEAR, EMERGENCY EXTENSION ASSEMBLY - ENGAGED

----Probable Cause----

8. EMERGENCY PROCEDURE - PERFORMED - PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 1,3,4$

Basic InformationType Operating Certificate	-ON-DEMAND AIR	Y TAXI	Aircraft [)amage		Injur	tes	
Name of Carrier	-ASTRO AIRWAYS	CORP.	MINOR		Fatal	Sertous	Minor	None
Type of Operation Flight Conducted Under	-NON SCHED, DOM	ESTIC,CARGO	Fire	Crew	0	0	0	1
			NONE	Pass	0	0	0	. 0
Incident Occurred During	-APPROACH 							
-Aircraft Information								
Make/Model - BEECH C-45			/Mode1 - P&W F	₹-985		Installed/A		
Landing Gear - TRICYCLE-R	ETRACTABLE		ngines - 2			tall Warnin	g System	- NO
Max Gross Wt - 8625				ROCATING-CARBURE	TOR			
No. of Seats - 2		Rated Po	wer - 45	50 HP				
Environment/Operations Infor	mation							
Weather Data		Itinerary				Proximity		
Wx Briefing - FSS			rture Point		ON AIR	PORT		
Method - UNK/NR		OMAHA, N						
Completeness - UNK/NR		Destinatio			Airport D			
Basic Weather - VMC	VTC	SAME AS	ACC/INC		REGION		00	
Wind Dir/Speed- 360/007 Visibility - 20.0		ATC/Airspac	_			· Ident - · Lth/Wid -	02	450
	SM CLEAR		e light Plan - 1	ED		Surface -		
	NONE		learance - 1			Status -		
Obstructions to Vision-				RAFFIC PATTERN	Kuriway	Status	DKI	
Precipitation -		Type Apcil	, Lindy	RAITIO TATTERN				
Condition of Light -	NIGHT (DARK)							
Personnel Information Pilot-In-Command		Age - 43	Me	edical Certificat	te - VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>		Biennial Flight	Review	F1igh	nt Time (F			,
ATP		Current	- YES			Last 24	Hrs -	. 8
SE LAND, ME LAND		Months Sinc	e - 1 pe - UNK/NR	Make/Model- Instrument- UN	600	Last 30	Days- UN	K/NR
		Aircraft Ty	pe - UNK/NR					
				Multi-Eng - UN	IK/NR	Rotorcr	aft - UN	K/NR
Instrument Rating(s)	- AIRPLANE							
PLT REPORTED THAT HE WAS UNA	BLE TO GET A D	OWN & LOCKED IN	DICATION ON TH	HE MAIN LANDING	GEAR WHEN	ARRIVING AT		
JMBIA. HE STATED THAT HE WENT								

File No 50	38 7/17/84 	COLUMBIA, MO	A/C Reg. No. N492DM	Time (Lc1) - 2140 CDT
Occurrence #1 Phase of Operation	AIRFRAME/COMPONE APPROACH	NT/SYSTEM FAILURE/MAI	LFUNCTION	
Finding(s) 1. LANDING GEAR -	UNDETERMINED			
Occurrence #2 Phase of Operation	GEAR COLLAPSED LANDING - ROLL			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5054 3/30/84 CLAY1	ON, NC	A/C Reg. No	. N4999S	1	ime (Lc1)	- 1545 EST	
Basic Information							
Type Operating Certificate-ON-DEMAND AI		ircraft Dama	ge		Inju	ries	
Name of Carrier -CAROLINA FLY	ING SERVICE	MINOR	_	Fatal	Serious	Minor	None
Type of Operation -NON SCHED,DC Flight Conducted Under -14 CFR 135	MESTIC, PASSENGER F	ire	Cre	N O	0	0	1
Flight Conducted Under -14 CFR 135		NONE	Pas	s 0	0	0	2
Incident Occurred During -LANDING							
Aircraft Information							
Make/Model - PIPER PA-28R-200	Eng Make/Mode	1 - LYCOMING	IO-360-C1C		Installed/		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engine				itall Warni	ng System	- YES
Max Gross Wt - 2600	Engine Type	- RECIP-FU	EL INJECTED				
No. of Seats - 4	Rated Power	- 200 H	P 				
Environment/Operations Information	•						
Weather Data	Itinerary				Proximity		
Wx Briefing - FSS	Last Departure	Point		OFF A	RPORT/STRI	P	
Method - TELEPHONE	MT. OLIVE,NC						
Completeness - WEATHER NOT PERTINENT	Destination			Airport [ata		
Basic Weather - VMC	RALEIGH, NC			JOHNS1	ON CO.		
Wind Dir/Speed- 290/014 KTS				Runway	Ident	- N/À	
Visibility - 15.0 SM	ATC/Airspace			Runway	Lth/Wid	- N/A	
Lowest Sky/Clouds - 6000 FT SCAT	TERED Type of Flight	Plan - NONE				- N/A	
Lowest Ceiling - NONE	Type of Cleara	nce - NONE		Runway	Status	- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORC	ED LANDING	-			
Precipitation - NONE	j, , , ,						
Condition of Light - DAYLIGHT							
Pilot-In-Command	Age - 39	Medic	al Certific	ate - VALTI	MEDICAL-W	ATVERS/LIN	ITT
Certificate(s)/Rating(s)	Biennial Flight Revi			ght Time (H		AIVENO, EI	
COMMERCIAL			otal -			4 Hrs -	1
SE LAND, ME LAND	Months Since -		ake/Model-		Last 3		
JE EARD, ME EARD	Aircraft Type -		nstrument-			Days-	
	All Graft Type		ulti-Eng -		2451 0	0 00,0	
Instrument Rating(s) - AIRPLANE							
Narrative							
RING FLT, THE PLT & A PASSENGER NOTED A LOS							
EELS-UP FORCED LANDING WAS MADE IN A PLOWED						1,	
D FAILED FROM FATIGUE. A METALLURGICAL EXAM							
RMALLY ASSOCIATED WITH OVERHAUL OF THE CRAN	KSHAFT. THE CRANKSHAF	T HAD 130 FL	T HRS SINCE	IT HAD BE	N RECONDIT	IONED	
AN FAA APPROVED REPAIR STATION.							

File No. - 5054 3/30/84 .CLAYTON,NC A/C Reg. No. N4999S Time (Lc1) - 1545 EST

Courrence #1 LOSS OF POWER(TOTAL) - MECH FAILURE/MALFUNCTION Phase of Operation CRUISE - NORMAL

Finding(s)

1. ENGINE ASSEMBLY, CRANKSHAFT - PREVIOUS DAMAGE
2. MAINTENANCE, MAJOR REPAIR - IMPROPER - OTHER MAINTENANCE PSNL
3. ENGINE ASSEMBLY, CRANKSHAFT - FATIGUE

Cocurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY

Cocurrence #3 IN FLIGHT COLLISION WITH TERRAIN LANDING - FLARE/TOUCHDOWN

Finding(s)

4. TERRAIN CONDITION - SOFT
5. WHEELS UP LANDING - PERFORMED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,3

-Basic Information Type Operating Certificate-NONE (GENER)	AL AVIATION) Aircraft	- Damade		Injuri	65	
Type operating out threate noise (acreen	MINOR	Damage	Fatal	•		None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Incident Occurred During -LANDING						
-Aircraft Information						_
Make/Model - CESSNA 150H	Eng Make/Model - COM			Installed/Ad		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			tall Warning	g System -	- YES
Max Gross Wt - 1600	Engine Type - REC		TOR			
No. of Seats - 2	Rated Power -	100 HP 				
-Environment/Operations Information				.		
Weather Data	Itinerary			Proximity		
Wx Briefing · - FSS Method - TELEPHONE	Last Departure Point		OFF AT	RPORT/STRIP		
Completeness - FULL	VILLA RICA,GA Destination		Airport D	2+2		
Basic Weather - UNK/NR	CHARLOTTE, NC		A Import D	ala		
Wind Dir/Speed- 140/004 KTS	CHARLOTTE, NC		Rupway	Ident -	N/A	
Visibility - 5.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan	- NONE			N/A	
Lowest Ceiling - 8000 FT BRO				Status -	N/A	
Obstructions to Vision- HAZE	Type Apch/Lndg	- PRECAUTIONARY LAN	DING			
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 63	Medical Certificat			IVERS/LIM	ΙT
Certificate(s)/Rating(s)	Biennial Flight Review	-	t Time (H	1 4 04	I I	•
PRIVATE	Current - YES Months Since - 2	Total - Make/Model- Instrument- Multi-Eng - UN	1050	Last 24	Hrs -	2
SE LAND	Aircraft Type - C-172	Make/Model-	1050	Last 30	Days- UN	1 E
	Aircraft Type - C-1/2	Multi-Epa - UA	3U IV /NID	Potoron	oays-	v /ND
		MUTCI-ETIE - ON	IN/ INK	RO (O) C)	art ON	N/ INK
Instrument Rating(s) - NONE						
-Narrative						
REACHED CHARLOTTE, NC, AND DISCOVERED HE					•	
COULD NOT LOCATE THE ARPT BECAUSE OF LOW NTIFIABLE LANDMARKS. PRECAUTIONARY LANDIN						
NIIFIABLE LANUMARKS. PRECAUIIUNARY LANDIN	A MAS LEKLOKWED IN A LIFTD RI	ECAUSE OF A LOW FUE	L SIAIE.	IDE AFI		

A/C Reg. No. N50319 Time (Lc1) - 1825 EDT File No. - 5046 8/18/84 GASTONIA, NC

Occurrence IN FLIGHT COLLISION WITH TERRAIN

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 2. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 3. WEATHER CONDITION HAZE
- 4. BECAME LOST/DISORIENTED INADVERTENT PILOT IN COMMAND
- 5. PRECAUTIONARY LANDING PERFORMED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 4

Factor(s) relating to this incident is/are finding(s) 1,2,3,5

File No 5039 6	/29/84 G	RAND ISLAND, NE	D ISLAND,NE A/C Reg. No. N1014P				1637 CDT	
-Basic Information Type Operating Certifica	te-COMMUTER		Aircraft Da	mage		Injur	ies	
		AIRWAYS, INC. (PIOA D, DOMESTIC, PASSENGER	MINOR	9-	Fata1	Serious	Minor	None
Type of Operation	-SCHEDULE	D, DOMESTIC, PASSENGER	Fire	Cre	_	0	0	2
Flight Conducted Under		35	NONE	Pas	s 0	0	0	3
Incident Occurred During	- TAKEUFF							
-Aircraft Information								
	EN SA227-AC		Model - GARRET	T TPE 331		Installed/A		
Landing Gear - TRICYCLE Max Gross Wt - 12500	-KEIKACIABL	Engine Ty	gines - 2 pe - TURBOP	Don	S	tall Warning	g System	- YES
No. of Seats - 21		Rated Pow						
		Rateu FOW						
-Environment/Operations Inf	ormation							
Weather Data		Itinerary				Proximity		
Wx Briefing - UNK/NR		Last Depar			ON AIR	PURT		
Method - UNK/NR Completeness - UNK/NR		GRAND IS Destination			Airport D	2+2		
Basic Weather - VMC		KEARNEY,				OUNTY REGIN	Δ1	
Wind Dir/Speed- 130/01	2 KTS	KERKIET,					17	
Visibility - 15.0		ATC/Airspace				Lth/Wid -		150
Lowest Sky/Clouds -		THIN BKN Type of F1	ight Plan - VF	R	Runway	Surface -	ASPHALT	
	- NONE		earance - IF		Runway	Status -	DRY	
Obstructions to Vision		Type Apch/	Lndg - NO	NE				
Precipitation Condition of Light								
-Personnel Information Pilot-In-Command		Age - 40	Mod	ical Certific	ate - VALID	MEDICAL -NO	WATVEDS/	LIBATT
Certificate(s)/Rating(s)	Biennial Flight			ght Time (H		WAIVERS	CIMI
ATP	,	Current	- YES	Total -	• •	<u>.</u> .	Hrs -	3
SE LAND, ME LAND		Months Since		Make/Mode1-	1830	Last 24 Last 30 Last 90	Days- UN	K/NR
		Aircraft Typ	e - SA227AC	Instrument-		Last 90	Days-	295
				Multi-Eng -	1845			
Instrument Rating(s)	- AIRPLAN	E						
-Narrative		T						
CAPT STARTED THE RT ENG AT							NG	
PASSENGERS ON TAKEOFF.& EN THE LT. STRIKING A RWY LIGH								
ICIC I I SIKIKING A KWY I KAM	i. Duking I	ne invesiinaiinv 186		AS CULINII UN I	DE STAKT LU	Und.		

File No 503	9 6/29/84 G	RAND ISLAND,NE	A/C Reg. No. N1014P	Time (Lc1) - 1637 CDT
Occurrence #1 Phase of Operation				
Finding(s) 1. STARTING PROCEDU 2. PROPELLER SYSTEM 3. CHECKLIST - NO 4. DIRECTIONAL CONT	T FOLLOWED -	D		
Occurrence #2 Phase of Operation				
Finding(s) 5. OBJECT - RUNWAY	LIGHT			
Probable Cause	-			
The National Transporis/are finding(s) 1	tation Safety Board	determines that the	Probable Cause(s) of this incid	ent

Factor(s) relating to this incident is/are finding(s) 4,5

File No 5062 1/0	02/84 FIERBURU	NJ A	/C Reg. No. N:	322CS 		ime (LCI)	- 0147 ES	
Type Operating Certificate	-ON-DEMAND AIR TA	(I Air	craft Damage				ıries	
Name of Carrier Type of Operation Flight Conducted Under	-BUSINESS JET AIRI	INE (BJA MI	NOR	0	Fatal			None
Flight Conducted Under	-NUN SCHED, DUMEST.	C, PASSENGER FIR	e NF	Crew Pass	0	0	0	3
Incident Occurred During	-LANDING	140	NL	rass	U	U	U	3
Aircraft Information								
Make/Model - LOCKHEED Landing Gear - TRICYCLE-		Eng Make/Model Number Engines		TFE-731-31			'Activated ing System	
Max Gross Wt - 44750	RETRACTABLE	Engine Type			3	tali warni	ing System	- 162
No. of Seats - 11		Rated Power		THRUST				
Environment/Operations Info	mation							
Weather Data Wx Briefina - FSS		Itinerary				Proximity		
Wx Briefing - FSS Method - TELEPHO	JE.	Last Departure P CHICAGO,IL	oint		ON AIR	PURI		
Completeness - FULL	1 C	Destination			Airport Da	ata		
Basic Weather - VMC		SAME AS ACC/IN	С		TETERBO			
Wind Dir/Speed- 060/006	KTS				Runway	Ident	- 24	
Visibility - 11.0		ATC/Airspace					- 6013/	150
Lowest Sky/Clouds -		Type of Flight P	lan - IFR				- ASPHALT	
Lowest Ceiling - Obstructions to Vision-		Type of Clearance			Runway	Status	- DRY	
Precipitation -		Type Apch/Lndg	- VISUAL STRAIGH	T - TNI				
Condition of Light -			FULL ST					
Personnel Information								
Pilot-In-Command Certificate(s)/Rating(s)	Age Bie	- 31 nnial Flight Review		Fligh	it Time (H	ours)	NO WAIVERS	
ATP, CFI		Current - YE	S Tota	1 - 1	0600	Last 2	24 Hrs -	9
SE LAND, ME LAND		Months Since - 1 Aircraft Type - 13	Make	/Model-	225	Last (30 Days- 90 Days-	40 120
		Afficiant Type - 13	Mult	i-Eng -	9400	Rotor	craft -	20
Instrument Rating(s)								
Narrative			,					
CS LANDED WITH THE LEFT MAIL	N LANDING GEAR PAR	TIALLY EXTENDED AFT	ER EMERGENCY	GEAR EXTEN	ITION PROC	EDURES		
ED. INVESTIGATION REVEALED								
E PROXIMITY DURING THE GEAR	EVTENITION SECUENCE	THE EATILIDE MODE	THAT CAUSED	THE JAM WA	S NOT DET	EDMINED		

File No. - 5062 1/02/84 TETERBORO,NJ A/C Reg. No. N322CS Time (Lc1) - 0147 EST

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation APPROACH - VFR PATTERN - DOWNWIND

Finding(s)

1. DOOR,LANDING GEAR - JAMMED

2. GEAR EXTENSION - NOT POSSIBLE - PILOT IN COMMAND

Occurrence #2 GEAR COLLAPSED
Phase of Operation LANDING - FLARE/TOUCHDOWN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) $\mathbf{1}$

	DULCE, NM	A/C Reg. No. N75	SSS .	Time (Lc1) - 1510	MDT
Basic Information					
Type Operating Certificate-ON-		Aircraft Damage		Injuries	
Name of Carrier -FOU	R CORNERS AVIATION; IN	MINOR	Fatal	Serious Mind	or None
Type of Operation -NON	SCHED, DOMESTIC, PASSENGER	Fire	Crew O	0 () 1
Flight Conducted Under -14		NONE	Pass 0	0 (5
Incident Occurred During -TAK	EOFF				
Aircraft Information					
Make/Model - CESSNA U206G	Eng Make/Mo	del - CONTINENTAL I	0-520-F ELT	Installed/Activa	ted - YES/NO
Landing Gear - TRICYCLE-FIXED				Stall Warning Sys	tem - YES
Max Gross Wt - 3600		- RECIP-FUEL IN	JECTED		
No. of Seats - 6	Rated Power				
Environment/Operations Informati	on				
Weather Data	Itinerary		Airport	t Proximity	
Wx Briefing - NO RECORD OF		re Point		AIRPORT/STRIP	
Method - N/A	DULCE, NM		511 2	TIN ONLY STREET	
Completeness - N/A	Destination		Airport	Data	
Basic Weather - VMC	FARMINGTON	I NISA	DULCE		
Wind Dir/Speed- 310/010 KTS	FARMINGTON	व , । जावा		av Ident - 33	
Visibility - 50.0 SM	ATC/Airspace)/ 40
		that Diam COMPANY (ay Lth/Wid - 5000	0/ 40
Lowest Sky/Clouds - CLEA		tht Plan - COMPANY (ay Surface - N/A	
Lowest Ceiling - NONE	. , , ,	11011		ay Status - N/A	
Obstructions to Vision- NONE		ndg - VALLEY/TE	RRAIN FOLLOWING		
Precipitation - NONE					
Condition of Light - DAYL	IGHT				
Personnel Information					
Pilot-In-Command	Age - 25			ID MEDICAL-WAIVERS,	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Re	eview	Flight Time ((Hours)	
ATP,CFI	Current	- YES Total	- 4984	Last 24 Hrs	- 4
CE LAND ME LAND	Months Since	- 4 Make/M	odel - 1500	Last 30 Days	- UNK/NR
SE LAND, ME LAND				Last 90 Davs	
SE LAND, ME LAND	Aircraft Type	- UNK/NR Instru	ment- UNK/NR	Last 30 Days	- 210
SE LAND, ME LAND	Aircraft Type	- ONN/INK INSTITUT	ment- UNK/NR Eng - 1151	Rotorcraft	

File No. - 5025 5/17/84 DULCE, NM A/C Reg. No. N756SS Time (Lc1) - 1510 MDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND 2. TERRAIN CONDITION - MOUNTAINOUS/HILLY 3. WEATHER CONDITION - UNFAVORABLE WIND 4. WEATHER CONDITION - HIGH DENSITY ALTITUDE 5. WEATHER CONDITION - DOWNDRAFT PROPER CLIMB RATE - NOT POSSIBLE -Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 7. OBJECT - WIRE, TRANSMISSION ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Factor(s) relating to this incident is/are finding(s) 2,3,4,5,7

File No 5056 5/24/84 ALB	UQUERQUE, NM A/C	Reg. No. N237AM	т	ime (Lc1) -	0800 MD	Γ
Basic Information Type Operating Certificate-COMMUTER Name of Carrier -AIR MIDWES Type of Operation -SCHEDULED, Flight Conducted Under -14 CFR 135 Incident Occurred During -APPROACH	T AIRLINES, INC MINO DOMESTIC,PAX/CARGO Fire	Crew	-	Injur Serious O O		None 2 17
Aircraft Information Make/Model - SWEARINGEN SA226TC Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 10062 No. of Seats - 19	Number Engines -	AIRESEARCH TPE-331 2 TURBOPROP 940 HP		Installed// tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - NWS Method - ACFT RADIO Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 190/007 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 25000 FT Lowest Ceiling - 25000 FT OV Obstructions to Vision- NONE Precipitation - UNK/NR Condition of Light - DAYLIGHT	Itinerary Last Departure Poi ROSWELL,NM Destination ALBUQUERQUE,NM ATC/Airspace Type of Flight Pla ERCAST Type of Clearance Type Apch/Lndg	in - VFR	ON AIR Airport D ALBUQU Runway Runway Runway	ata ERQUE INT'I	- 35 - 8993/ - ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND,ME LAND	Age - 31 Biennial Flight Review Current - YES Months Since - 3 Aircraft Type - SA-2	Total - Make/Model-	ght Time (H 6870 4300 430	ours) Last 2 Last 3	D WAIVERS 4 Hrs - D Days- U D Days-	2
Instrument Rating(s) - AIRPLANE						
WHEN GEAR WAS LOWERED FOR LANDING RT MAIN G DOORS APPEARED OPEN. REMEDIAL ACTION BY THE PERFORMED. WHEN ACFT WAS RAISED FROM RWY AN OUT OF WHEEL WELL. EXAMINATION OF MARKS ON THE KEELSON WEB AND THE DOOR HINGE. THIS WO THUS PREVENTING GEAR EXTENSION. A MECHANIC SCREW HOLES ON THE EVENING PRECEEDING THE I	FLT CREW DID NOT RECTIFY TO RT MAIN GEAR DOORS FORCES THE AWL AND IN THE WHEEL WOULD HAVE BLOCKED THE DOORS HAD PERFORMED A ROUTINE GE	THE SITUATION AND A COOPEN, A MECHANICS TELL INDICATED THE AWL FROM OPENING PAST THE	GEAR UP LAN OOL, CALLE BECAME LO HE HALF WAY	DING WAS D AN AWL, DGED BTW POSITION	FELL	

File No. - 5056 5/24/84 ALBUQUERQUE, NM A/C Reg. No. N237AM Time (Lc1) - 0800 MDT Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation APPROACH Finding(s) 1. DOOR, LANDING GEAR - FOREIGN OBJECT 2. MAINTENANCE - IMPROPER - COMPANY MAINTENANCE PSNL IMPROPER USE OF PROCEDURE, COMPLACENCY - COMPANY MAINTENANCE PSNL 4. DOOR, LANDING GEAR - JAMMED 5. GEAR EXTENSION - NOT POSSIBLE -Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 6. WHEELS UP LANDING ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident

is/are finding(s) 1,2,4

Factor(s) relating to this incident is/are finding(s) 3

File No 5094 10/17/84 LAS	VEGAS, NV	A/C Reg.	Time (Lc1) - 0654 PDT				
Basic Information Type Operating Certificate-AIR CARRIER	- FLAG/DOMESTIC	Aircraft D)amage		Injur	ries	
Name of Carrier -AMERICAN AI	RLINES. INC.	NONE		Fatal	•		None
Type of Operation -SCHEDULED.D	OMESTIC, PASSENGER	Fire	Cre	•	0	0	7
Flight Conducted Under -14 CFR 121		NONE	Pas	s O	0	0	23
Incident Occurred During -CLIMB							
Aircraft Information							
Make/Model - BOEING 727-227		lodel - P&W u	JT8D-9		Installed/		
Landing Gear - TRICYCLE-RETRACTABLE		jines - 3		S	tall Warnir	ng System	- YES
Max Gross Wt - 135400		e - TURBO					
No. of Seats - 134	Rated Powe	er - 1450	O HP				
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - COMPANY	Last Depart			OFF AI	RPORT/STRIF	•	
Method - IN PERSON	LAS VEGAS	S, NV					
Completeness - WEATHER NOT PERTINEN		50.01		Airport D	ata		
Basic Weather - VMC Wind Dir/Speed- 230/022 KTS	LOS ANGEL	.ES,CA		Bunuas	Ident -	- N/A	
Visibility - 50.0 SM	ATC/Airspace				Lth/Wid -		
	TTERED Type of Fil	oht Plan - I	FD		Surface -		
Lowest Ceiling - NONE		earance - I				- N/A	
Obstructions to Vision- NONE	Type Apch/L		INK/NR		•	, , , , , , , , , , , , , , , , , , ,	
Precipitation - NONE		J	·				
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 58		dical Certific			IVERS/LI	MIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight R			ght Time (H			
COMMERCIAL, ATP	Current	- YES	Total -			4 Hrs - U	
SE LAND, ME LAND	Months Since		Make/Model-	UNK/NR	Last 30	Days- U	NK/NR
	Aircraft Type	9 - 727	Instrument- Multi-Eng -	UNK/NK	Last 90	raft - U	NK/NR NK/ND
			Murci-Eng -	OINT/ INK	KO (O) C)	art o	AL AL
Instrument Rating(s) - AIRPLANE							
Narrative							
UNCOMMANDED DEPLOYMENT OF THE #8 LEADING	EDGE SLAT OCCUPPED	DURING A CLI	MR CONTROL OF	THE ACET W	AS NOT AFF	CTED &	
E FLT CONTINUED TO THE DESTINATION. THE CR							
TUATOR DID NOT DISCLOSE A MALFUNCTION OR F							
SPLAYED EVIDENCE OF AN INTERMITTENT MALFUN	CTION THAT COULD HA	VE FALSELY I	NDICATED THAT	THE ACTUATO	R WAS RETRA	ACTED,	
HEN IN REALITY IT HAD NOT.							

File No. - 5094 10/17/84 LAS VEGAS,NV A/C Reg. No. N722AA Time (Lc1) - 0654 PDT

Occurrence AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation CLIMB - TO CRUISE

Finding(s)

- 1. ELECTRICAL SYSTEM, ELECTRIC SWITCH ERRATIC
- 2. FLIGHT CONTROL, SLAT DEPLOYED INADVERTENTLY

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Brief of Accident/Incident

Basic Information							
Type Operating Certificate-AIR CARR	IER - FLAG/DOMESTIC	Aircraft Dama	ge		Injur	ies	
Name of Carrier -LUFTHANS Type of Operation -SCHEDULE	A AIRLINES	NONE Fire		Fatal	Serious		None
Type of Operation -SCHEDULE	D,INTL,CARGO			. 0	0	0	3
Flight Conducted Under -14 CFR 1	29	NONE	Pass	0	0	0	0
Acc/Inc Occurred During -TAKEOFF			Other	0	1	3	0
Aircraft Information		•					
Make/Model - BOEING 747-230	Eng Make/N	Model - GE CF6-5	OE2	ELT 3	nstalled/A	ctivated	- YES/NO
Landing Gear - TRICYCLE-RETRACTABL	E Number End	ines - 4		St	all Warnir	g System	- YES
Max Gross Wt - 710000	Engine Typ	e - TURBOFAN					
No. of Seats - UNK/NR		er - 52500 L					
Environment/Operations Information							
Weather Data	Itinerary			Airport F	roximitv		
Wx Briefing - COMPANY	Last Depart	ture Point		ON AIRE			
Method - IN PERSON	SAME AS A	ACC/INC					
Completeness - FULL	Destination		A	irport Da	ata		
Basic Weather - IMC	FRANKFURT	「,GERM.		JOHN F.	KENNEDY I	NT'L	
Wind Dir/Speed- 060/008 KTS				Runway	Ident -	· 31L	
Visibility - 5.0 SM	ATC/Airspace				Lth/Wid -		150
Lowest Sky/Clouds - UNK/NR		ight Plan - IFR		Runway	Surface -	SNOW	
Lowest Ceiling - 300 FT				Runway	Status -	· SNOW - C	RUSTED
Obstructions to Vision- FOG	Type Apch/L	ndg - NONE					
Precipitation - SNOW							
Condition of Light - NIGHT(DAR				. 			
Personnel Information							
Pilot-In-Command	Age - 47		al Certificate) WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight R	Review		: Time (Ho			
ATP	Current	- YES T	otal - 13	3977	Last 24	Hrs - UN	IK/NR
ME LAND	Months Since	- UNK/NR M	lake/Mode1-	1034	Last 30	Days- UN	IK/NR
	Aircraft Type	- UNK/NR N = - 747 I	nstrument- UN	(/NR	Last 90	Days- UN	IK/NR
		ĮV	luiti-Eng - UNK	(/NR	Rotorc	aft - UN	IK/NR
Instrument Rating(s) - AIRPLAN							
·Narrative THE TIME OF THE INCIDENT, RWY 31L WAS	THE ONLY ACTIVE BUY	ADDY O CHOW DEMO	WAL VEHICLES I	EDE DETN	LICED TO		
OVE SNOW FROM RWY 4L/22R. THE VEHICLE						IDVO	
CLEARED FOR TAKEOFF. THE PLT BEGAN HI						lbio,	
ABORTED TAKEOFF. THE DRIVER OF THE CAR						Q.	
IED BRAKES, BUT THE CAR SLID ONTO THE							
CAR & INJURED THE OCCUPANTS.	NWI. THE AUT & CAR L	TO NOT COLLIDE,	DOT OUT EXTING	231 1 KOM	THE ACT I O	EKTOKNED	

Brief of Accident/Incident (Continued)

File No. - 6011

1/18/84

JAMAICA, NY

A/C Reg. No. DABYO

Time (Lc1) - 1701 EST

Occurrence
Phase of Operation

PROPELLER BLAST OR JET EXHAUST/SUCTION

Phase of Operation TAKEOFF

Finding(s)

- 1. LIGHT CONDITION DARK NIGHT
- 2. OBJECT VEHICLE
- 3. INSTRUCTIONS, WRITTEN/VERBAL NOT UNDERSTOOD DRIVER OF VEHICLE
- 4. VISUAL LOOKOUT INADEQUATE DRIVER OF VEHICLE
- 5. ABORTED TAKEOFF PERFORMED PILOT IN COMMAND
- 6. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION SNOW COVERED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident is/are finding(s) 3,4

Factor(s) relating to this incident is/are finding(s) 1,2,6

Brief of Accident/Incident

File No 6012 2/	28/84 JAMAIC	CA, NY	A/C Reg. No. LNRKB Time (Lc1) - 1616			1616 ES	316 EST		
Basic Information Type Operating Certificat Name of Carrier Type of Operation Flight Conducted Under Acc/Inc Occurred During	-SCANDINAVIAN -SCHEDULED,INT -14 CFR 129	ATRI THES	Aircraft Dama SUBSTANTIAL Fire ON GROUND	ige Crew Pass		Injur Serious O 1	ries Minor 3 8	None 11 154	
Aircraft Information Make/Model - MCDONNELL Landing Gear - TRICYCLE- Max Gross Wt - 555000 No. of Seats - UNK/NR	. DOUGLAS DC-10- RETRACTABLE			I		Installed/A			
Lowest Ský/Clouds - Lowest Ceiling - Obstructions to Vision-	6 KTS 60 SM 200 FT 200 FT OVERO FOG DRIZZLE		DRWAY ACC/INC ight Plan - IFR learance - IFR 'Lndg - ILS-	·COMPLETE	ON AIR Airport D JOHN F Runway Runway Runway Runway	ata KENNEDY IN	- 04R - 10000/ - ASPHALT		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND,ME LAND		Age - 54 Biennial Flight Current Months Since Aircraft Typ	Medic Review - YES 1 e - 1 N pe - UNK/NR 3	al Certifica	ate - VALID ght Time (F 18000 2500 JNK/NR	lours) Last 24 Last 30 Last 90	4 Hrs - U	NK/NR NK/NR NK/NR	
Instrument Rating(s)	- AIRPLANE								
DURING AN ILS APCH TO RWY 4R WI WAS FAST ON FINAL APCH & WAS LA TOUCHDOWN SPEED. THE AIRCREW ME TO THE RGT OF THE RWY CENTERLIN HIT THE PIER & THE ACFT CAME TO SOME, BUT 1 PAX WITH A CARDIAC WIRING & SELF EXTINGUISHED ALMO DURING THE OCCURRENCE. THERE WA CREW DID NOT USE THE AIRSPEED	NDED APRX 4700 MBERS WERE UNAB WE TO AVOID A HE OREST IN A TIDA CONDITION WAS H ST IMMEDIATELY. AS EVIDENCE THAT	FT BEYOND THE ARBLE TO STOP ON THE ADDRESS OF THE A	PCH END OF THE RV HE REMAINING 3700 WITH THE APCH LO OCCUPANTS WERE OVER 48 HRS. A S ON REVEALED THAT REASED ON FINAL A	WY AT 36 KTS O FT OF RWY. GT PIER AT THE EVACUATED WIT SMALL FIRE WA THE AUTOTHRO APCH WHEN IT	ABOVE THE THE CAPT S HE DEPT END TH ONLY MIN AS CONFINED OTTLE HAD N WAS NOT NE	PROGRAMMED STEERED THE). THE LEFT NOR INJURIES) TO SOME EL MALFUNCTIONS EDED. ALSO	ACFT WING S TO LECTRIC ED . THE		

Brief of Accident/Incident (Continued)

File No. - 6012 2/28/84 A/C Reg. No. LNRKB JAMAICA.NY Time (Lc1) - 1616 EST OVERRUN Occurrence #1 LANDING - ROLL Phase of Operation Finding(s) 1. WEATHER CONDITION - TAILWIND 2. PROCEDURES/DIRECTIVES - DISREGARDED -3. AUTOPILOT/FLIGHT DIRECTOR, AUTO THROTTLE - ERRATIC THROTTLE/POWER CONTROL - NOT CORRECTED - COPILOT IMPROPER USE OF PROCEDURE, OVER CONFIDENCE IN AIRCRAFT'S ABILITY - COPILOT 6. AIRSPEED - EXCESSIVE - COPILOT 7. AIRSPEED(VREF) - EXCEEDED -8. SUPERVISION - IMPROPER - PILOT IN COMMAND IMPROPER USE OF PROCEDURE - PILOT IN COMMAND 10. GO-AROUND - NOT PERFORMED -Occurrence #2 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 11. OBJECT - APPROACH LIGHT/NAVAID Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident $is/are\ finding(s)\ 2,4,5,8,9,10$ Factor(s) relating to this incident is/are finding(s) 1,3,6,11

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File No. - 5086
                            6/02/84
                                       FLUSHING.NY
                                                                 A/C Reg. No. N855TW
                                                                                              Time (Lc1) - 0654 EDT
----Basic Information----
     Type Operating Certificate-AIR CARRIER - FLAG/DOMESTIC
                                                               Aircraft Damage
                                                                                                       Injuries
     Name of Carrier
                              -TRANS WORLD AIRLINES, INC
                                                               MINOR
                                                                                          Fatal
                                                                                                   Serious
                                                                                                             Minor
                                                                                                                       None
     Type of Operation
                               -SCHEDULED, DOMESTIC, PASSENGER
                                                               Fire
                                                                                   Crew
                                                                                             0
                                                                                                       0
                                                                                                                0
                                                                                                                         7
     Flight Conducted Under -14 CFR 121
                                                                NONE
                                                                                   Pass
                                                                                             0
                                                                                                       0
                                                                                                                        59
     Incident Occurred During -TAKEOFF
----Aircraft Information----
     Make/Model - BOEING 727-31
                                                   Eng Make/Model - P&W UNK
                                                                                             ELT Installed/Activated - UNK/NR
     Landing Gear - TRICYCLE-RETRACTABLE
                                                   Number Engines - 3
                                                                                                Stall Warning System - YES
     Max Gross Wt - 161000
                                                   Engine Type
                                                                - TURBOFAN
     No. of Seats - 119
                                                   Rated Power
                                                                - UNK/NR
----Environment/Operations Information----
   Weather Data
                                                Itinerary
                                                                                         Airport Proximity
     Wx Briefina
                     - COMPANY
                                                  Last Departure Point
                                                                                           OFF AIRPORT/STRIP
       Method

    IN PERSON

                                                    SAME AS ACC/INC
       Completeness - WEATHER NOT PERTINENT
                                                                                        Airport Data
                                                 Destination
     Basic Weather - VMC
                                                    ST. LOUIS, MO
                                                                                           JFK INT'L
       Wind Dir/Speed- 330/015 KTS
                                                                                           Runway Ident - N/A
                                                                                           Runway Lth/Wid - N/A
       Visibility
                    - 8.0 SM
                                                ATC/Airspace
       Lowest Sky/Clouds -
                                4000 FT
                                                  Type of Flight Plan - IFR
                                                                                           Runway Surface - N/A
       Lowest Ceiling
                           - 4000 FT BROKEN
                                                  Type of Clearance - IFR
                                                                                           Runway Status - N/A
       Obstructions to Vision- NONE
                                                  Type Apch/Lndg
                                                                   - PRECAUTIONARY LANDING
       Precipitation - RAIN
       Condition of Light - DAYLIGHT
----Personnel Information----
    Pilot-In-Command
                                            Age -
                                                    49
                                                                      Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT
      Certificate(s)/Rating(s)
                                            Biennial Flight Review
                                                                                   Flight Time (Hours)
         COMMERCIAL, ATP, FLT ENG
                                                                                   - ŬNK/NR
                                                Current
                                                             - UNK/NR
                                                                                                    Last 24 Hrs - UNK/NR
                                                                          Total
         SE LAND, ME LAND
                                                                           Make/Model- UNK/NR
                                                                                                    Last 30 Days- UNK/NR
                                                Months Since - UNK/NR
                                                Aircraft Type - UNK/NR
                                                                          Instrument- UNK/NR
                                                                                                    Last 90 Days- UNK/NR
                                                                           Multi-Eng - UNK/NR
                                                                                                     Rotorcraft - UNK/NR
         Instrument Rating(s) - AIRPLANE
----Narrative----
AFTER TAKEOFF FLT ATTENDANT REPORTED AFT AIRSTAIR PARTIALLY OPEN. FLT ENGINEER CHECKED & CONFIRMED AIRSTAIR OPEN
APRX 18 INCHES. REMEDIAL ACTION PERFORMED TO NO AVAIL. UNSCHEDULED LANDING PERFORMED WITHOUT INCIDENT. AS ACFT
TURNED ONTO TAXIWAY AIRSTAIR CONTACTED GROUND. INVESTIGATION DISCLOSED, PRIOR TO DEPT MAINTENANCE SUPERVISOR PLACARDED
AFT AIRSTAIR WARNING LIGHTS IN THE COCKPIT "INOPERATIVE." SUPERVISOR THEN MADE LOGBOOK ENTRY "AIRSTAIRS CHECKED
UP AND LOCKED." INSPECTION REVEALED PLUNGER ON AFT AIRSTAIR BUNGEE ASS'Y WAS BOUND INSIDE ITS HOUSING DUE TO
CORROSION & DIRT INSIDE THE BUSHING THROUGH WHICH PLUNGER SLIDES. MAINTENANCE MIN EQUIP & DISPATCH PROC WHICH WAS
PERFORMED WAS TO VERIFY UPLATCH MECHANISM ENGAGED WITH UPLOCK ROLLERS ON AIRSTAIR. A NON-VALID TWA ACFT MAINTENANCE
BULLETIN STATED THE ABOVE PROCESS DOES NOT ENSURE THE UPLATCH MECHANISM IS LOCKED AND THAT THE SOFT SURFACES MUST
BE IN CONTACT TO VERIFY THE CRANK ARMS ARE LOCKED OVER-CENTER.
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File No. - 5086 6/02/84 FLUSHING,NY A/C Reg. No. N855TW Time (Lc1) - 0654 EDT

Occurrence AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation TAKEOFF

Finding(s)

1. MAINTENANCE - INADEQUATE - COMPANY MAINTENANCE PSNL

2. DOOR, ENTRANCE STAIR - CORRODED

3. DOOR, ENTRANCE STAIR - BINDING (MECHANICAL)

4. DOOR, ENTRANCE STAIR - OPEN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Factor(s) relating to this incident is/are finding(s) 2,3

Brief of Incident

File No 5110 7/26/84 BUFFAL	.O , NY	A/C Reg.	No. N518PE	-	Time (Lc1) -	- 1658 ED	т
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -PEOPLE EXPRES Type of Operation -SCHEDULED,DOM Flight Conducted Under -14 CFR 121 Incident Occurred During -APPROACH	S AIRLINES	Aircraft D MINOR Fire NONE	Pamage Cro Pas		Injur Serious O O	ries Minor O	None 7 98
Aircraft Information Make/Model - BOEING 727-232 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 210000 No. of Seats - 154	Eng Make/M Number Eng Engine Typ Rated Powe	e - TURBO			Installed/A Stall Warnir		d - YES-UNK/NR n - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - ACFT RADIO Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- CALM Visibility - UNK/NR Lowest Sky/Clouds - CLEAR Lowest Ceiling - 5000 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT		y ght Plan - I arance - I	FR	OFF A: Airport [Runway Runway Runway	/ Ident - / Lth/Wid - / Surface -	- N/A - N/A	
	Age - 33 Biennial Flight R Current Months Since Aircraft Type	eview - YES - 2	Total - Make/Model-	ight Time (F 4500 100 UNK/NR	lours) Last 24 Last 30 Last 90) WAIVERS 4 Hrs - l) Days- l) Days- l raft - l	JNK/NR JNK/NR JNK/NR
DURING THE DEPARTURE FROM NEWARK, NJ, THE AIRC THE CREW SUSPECTED THAT A TIRE WAS OUT-OF-ROUN APCH TO BUFFALO, NY, THE VIBRATION OCCURRED AG THE APCH & LANDING WERE CONTINUED WITHOUT FURT REVEALED NO REASON FOR THE VIBRATION. HOWEVER, IT HAD SEPARATED ON FINAL APCH & HAD HIT A PAR PREPARATION & BONDING DURING A PREVIOUS REPAIR	D OR A GEAR DOOR AIN WHEN THE LAND HER INCIDENT. AFT DURING THE FLT, KED CAR CAUSING M	WAS VIBRATIN ING GEAR WAS ER LANDING, A PIECE OF T	IG & CONTINUED EXTENDED, BU AN EXAM OF THE THE LEFT TRAIL	THE FLT. DU T CEASED ON E ACFT, GEAR ING EDGE FLA	JRING THE FINAL APCH. R & GEAR DOO AP HAD SEPAR	RS RATED.	

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File No. - 5110 7/26/84 BUFFALO, NY A/C Reg. No. N518PE Time (Lc1) - 1658 EDT

Occurrence Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Finding(s)

- 1. FLIGHT CONTROL, FLAP FAILURE, PARTIAL
- 2. MAINTENANCE IMPROPER OTHER MAINTENANCE PSNL
- 3. FLIGHT CONTROL, FLAP VIBRATION
- 4. FLIGHT CONTROL, FLAP FAILURE, TOTAL
- 5. FLIGHT CONTROL, FLAP SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,4

File No 5114 12/12/	'84 JAMAICA,NY	AMAICA,NY A/C Reg. No. N117AA Time (Lc1) - 1) - 1617 EST		
Basic Information Type Operating Certificate-A Name of Carrier Type of Operation Flight Conducted Under	MERICAN AIRLINES INC. SCHEDULED.DOMESTIC.PASSENGER	Aircraft Damage MINOR Fire NONE	Fat Crew	Inji tal Serious O O	uries Minor O O	None 13 176	
Incident Occurred During -1		· 					
Aircraft Information Make/Model - MCDONNELL DO Landing Gear - TRICYCLE-REI Max Gross Wt - 440000 No. of Seats - 345	RACTABLE Number Eng	odel - GE CF6-6K ines - 3 e - TURBOFAN r - 39300 LBS		ELT Installed Stall Warn	/Activated ing System		
Environment/Operations Informa Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR	ation Itinerary Last Depart SAME AS A Destination		O	port Proximity N AIRPORT ort Data			
Basic Weather - UNK/NR Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - UN	LOS ANGEL	ES,CA ght Plan - IFR	JU Ri Ri	DHN F. KENNEDY unway Ident unway Lth/Wid unway Surface	- UNK/NR - UNK/NR		
	JK/NR Type of Cle JK/NR Type Apch/L JK/NR	arance - IFR		unway Status			
Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 56 Biennial Flight R		Certificate - ' Flight Ti	me (Hours)	WAIVERS/LIM	11 1	
COMMERCIAL, ATP	Current	- UNK/NR To	tal - 23935 ke/Model- 1680	Last	24 Hrs - UN	IK/NR	
SE LAND, ME LAND	Months Since Aircraft Type	- UNK/NR Ins	ke/Model- 1680 strument- UNK/NR lti-Eng - UNK/NR	Last	30 Days- UN 90 Days- UN craft - UN	IK/NR IK/NR IK/NR	
Instrument Rating(s) -	AIRPLANE						
Narrative DURING TAXI FOR DEPARTURE, ACFT EXTO INSPECT LANDING GEAR. INSPECTION BEAM ASS'Y CONCLUDED THE FAILURE ON 5/9/85 TO ADDRESS STRESS CORROSTRUCK BEAM HAD BEEN MODIFIED IN OR	ON REVEALED RT MAIN GEAR TRUCK WAS CAUSED BY STRESS CORROSION SION IN AREA WHERE THE FAILURE	BEAM FAILED. MET. MANUFACTURER RI	TALLURGICAL INSP EVISED SERVICE B	ECTION OF TRUC ULLETIN, A32-1	K 27,		

File No. - 5114 12/12/84 JAMAICA,NY A/C Reg. No. N117AA Time (Lc1) - 1617 EST

Occurrence AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation TAXI - TO TAKEOFF

Finding(s)
1. LANDING GEAR, MAIN GEAR STRUT - STRESS CORROSION

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

----Probable Cause----

File No.	- 5048	4/14/84 MARTINIQUE,		A/C Reg.	A/C Reg. No. N751PA			Time (Lc1) - 1850 EST			
Name of Ca Type of Op Flight Con	ting Certific	-PAN A -SCHED -14 CF	ARRIER – FLAG/DOMESTIC MERICAN (PAAA) ULED,INTL,PASSENGER R 121	Aircraft D MINOR Fire NONE	amage Crew Pass	Fatal O O	Injur Serious O O	ries Minor O O	None 13 250		
	- BOEING ar - TRICYCI Wt - 710000	LE-RETRACT	ABLE Number En	Model - P&W J gines - 4 pe - TURBO er - UNK/N	FAN		Installed/Æ Stall Warnir				
Basic Weat Wind Dir Visibili Lowest S Lowest C Obstruct Precipit Conditio	g - UNK/I - UNK/I ness - WEATI her - VMC /Speed- UNK/I ty - UNK/I ky/Clouds - eiling ions to Visio	NR NR HER NOT PE NR UNK/NR - UNK/NR DD - UNK/NR - NONE - UNK/NR	Itinerary Last Depar SAME AS RTINENT Destination NEW YORK ATC/Airspace Type of F1 Type of C1 Type Apch/	ACC/INC ,NY ight Plan - I earance - I	FR	OFF Al Airport [Runway Runway Runway Runway	/ Ident - / Lth/Wid - / Surface -	N/A N/A			
-Personnel In Pilot-In-Co Certifica ATP SE LAN	formation	- (s)	Age - 50 Biennial Flight Current Months Since Aircraft Typ	Review - YES - UNK/NR	dical Certificate Flight Total - 26 Make/Model- UNF Instrument- UNF Multi-Eng - UNF	t Time (H 8000 K/NR K/NR	dours) Last 24 Last 30 Last 90	AIVERS/LIM Hrs - Days- UN Days- UN	5 K/NR K/NR		
AR DOOR" AND Miami, FL, Wh Uator, Actuat	HROUGH FL2OO "LEFT WING DO ERE LANDING O OR BEAM ASS!" BULLETIN REG	DOR OPEN" Was made w Y and asso	RIENCED A LOSS OF #4 HYD LIGHTS, A MEDIUM FREQ VI ITHOUT INCIDENT. INVESTI C KEEL BEAM BOX ATTACHIN TECTION OF CRACKS IN THE	BRATION AND H GATION DISCLO IG HARDWARE WE	EARD A LOUD RUSH! SED LEFT WING LAN RE MISSING. BOE!	ING SOUNI NDING GEA NG SUBSEC	D. FLT DIVER AR DOOR QUENTLY HAS				

File No. - 5048 4/14/84 MARTINIQUE, A/C Reg. No. N751PA Time (Lcl) - 1850 EST

Occurrence Phase of Operation CLIMB - TO CRUISE

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Finding(s)

1. DOOR, LANDING GEAR - FATIGUE

2. DOOR, LANDING GEAR - SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5021 5/	24/84 BAHAMA	\$,	A/C Reg.	No. N4620	T	ime (Lc1) -	1450 EDT	
-Basic Information								
Type Operating Certificat	e-AIR CARRIER -	FLAG/DOMESTIC	Aircraft Da	mage		Injur	tes	
Name of Carrier	-GULF AIR, INC	! ●	NONE	_	Fatal	Serious	Minor	None
Type of Operation .	-NON SCHED, INT	L,PASSENGER	Fire	Crew	0	0	0	6
Flight Conducted Under	-14 CFR 121		NONE	Pass	0	0	0	119
Incident Occurred During	-CLIMB							
-Aircraft Information								
Make/Model - BOEING 72	7-35	Eng Make/Mo	ode1 - P&W JT	8D-7B	ELT	Installed/A	ctivated	- YES/ŅO
Landing Gear - TRICYCLE-	RETRACTABLE	Number Eng	ines - 3		9	itall Warnin	g System	- YES
Max Gross Wt - 161000		Engine Type	e - TURBOJ	ET			_ ,	
No. of Seats - 119		Rated Power	r - 14000	LBS THRUST				
-Environment/Operations Info	rmation							
Weather Data		Itinerary			Airport	Proximity		
Wx Briefing UNK/NR		Last Depart	ure Point		OFF A	RPORT/STRIP		
Method - UNK/NR		NASSAU						
Completeness - UNK/NR		Destination			Airport E	ata		
Basic Weather - VMC		HOUSTON, T	Χ .		•			
Wind Dir/Speed- 165/010	KTS				Runway	/ Ident -	N/A	
Visibility - 20.0		ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds -		ERED Type of Fli	oht Plan - IF	D			N/A	
• •	NONE		arance - IF			-	N/A	
Obstructions to Vision-		Type Apch/L			Kariwas	Julus	147.0	
Precipitation -		Type Aperly E	nag on	N/ NK				
Condition of Light -								
-Personnel Information Pilot-In-Command		Age - 34	Mos	ical Certifica	+= - UNIZ /N	.in		
·Certificate(s)/Rating(s)		Biennial Flight R			ht Time (
ATP		Current	- YES	Total -			Hrs - UN	IV /ND
		Months Since		Make/Model-	100			
SE LAND, ME LAND					IOO	Last 30	Days- UN	IK/NK
		Aircraft Type	- UNK/NR	Instrument- L			Days- UN	
				Multi-Eng - L	INK/ NK	ROTOPCI	aft - UN	IK/ NK
Instrument Rating(s)	- AIRPLANE							
-Narrative					_			
LE CLIMBING THRU FL 240, THE							ENG	
ACCORDANCE WITH THE ENG FIRE							_	
ESTIGATION REVEALED THAT THE							Г	
OGNIZE THIS PROBLEM DURING T						ARTER SYS.		
SEQUENTLY, THE STARTER DISIN	TEGRATED & DAMA	AGED WIRING & FUEL	& OIL LINES,	THEN A FIRE S	TARTED.			

File No. - 5021 5/24/84 BAHAMAS, A/C Reg. No. N4620 Time (Lc1) - 1450 EDT

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation STANDING - STARTING ENGINE(S)

Finding(s)

1. ENGINE ACCESSORIES, ENGINE STARTER - BINDING (MECHANICAL)

2. UNSAFE/HAZARDOUS CONDITION - NOT IDENTIFIED - FLIGHT ENGINEER

Occurrence #2 FIRE

Finding(s)

3. ENGINE ACCESSORIES, ENGINE STARTER - FAILURE, TOTAL

4. FUEL SYSTEM, LINE - OVERLOAD

Phase of Operation CLIMB - TO CRUISE

5. ENGINE ASSEMBLY, OTHER - FIRE

6. EMERGENCY PROCEDURE - PERFORMED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,3

File No 5015 5/16/8	4 MANSFIELD, OH	A/C Reg. No. N	15243Q	Ti	me (Lc1) -	1343 EDT	
Basic Information Type Operating Certificate-NO	NE (GENERAL AVIATION)	Aircraft Damage			Injur	les	
		MINOR	F	atai	Serious	Minor	None
Type of Operation -IN	STRUCTIONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14		NONE	Pass	0	0	0	0
Incident Occurred During -LA	NDING						
Aircraft Information							
Make/Model - CESSNA 152		ke/Model - LYCOMING O-	235-L2C		nstalled/#		
Landing Gear - TRICYCLE-FIXE		Engines - 1			all Warnir	ng System	- YES
Max Gross Wt - 1670		Type - RECIPROCATI	NG-CARBURETO	₹			
No. of Seats - 2	Rated	Power - 110 HP					
Environment/Operations Informat							
Weather Data	Itinerary				roximity		
Wx Briefing - UNK/NR		parture Point		ON AIRP	ORT		
Method - UNK/NR	STOW,				_		
Completeness - UNK/NR	Destinat		Ait	port Da			
Basic Weather - VMC Wind Dir/Speed- 310/010 KTS		IELD,OH			LD-LAHM Ident ·	05	
Visibility - 8.0 SM		200			Lth/Wid -		150
Lowest Sky/Clouds - 30					Surface -		130
		Clearance - VFR			Status ·		
Obstructions to Vision- NON		ch/Lndg - FULL ST	'OP	Karmay	Julus	.UK.	
Precipitation - NON		, on, enag	0.				
Condition of Light - DAY							
Personnel Information Pilot-In-Command	Age - 18	Medical	Certificate ·	- VALTD	MEDICAL-NO	WATVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flig		Flight ¹			, WAITENS,	
STUDENT	Current			19	Last 24	Hrs -	2
				19	Last 30	Days- UN	
	Aircraft	Type - N/A Inst	rument-	0	Last 90	Days-	49
			•				-
Instrument Rating(s) - N	ONE						
Narrative							
E PLT STATED THAT HE MADE A NORMA THE RWY.	L CROSS WIND LANDING AND	AFTER A 5-10 FT GROUN	ID ROLL, WAS E	BLOWN OF	F THE RT S	SIDE	

1. No. N5243Q Time (Lc1) - 1343 EDT File No. - 5015 5/16/84 MANSFIELD.OH A/C Reg. No. N5243Q

Occurrence

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

- 1. WEATHER CONDITION CROSSWIND
- 2. PREFLIGHT PLANNING/PREPARATION POOR PILOT IN COMMAND
- IMPROPER USE OF PROCEDURE, LACK OF TOTAL EXPERIENCE PILOT IN COMMAND
- 4. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2,4

Factor(s) relating to this incident is/are finding(s) 1,3

File No 5059 9/30/84 AKRON	, OH A/C	Reg. No. 86971	T	ime (Lc1) -	1758 EDT	
Basic Information Type Operating Certificate-NONE (GENERA) Type of Operation -MILITARY/AF Flight Conducted Under -14 CFR 91 Incident Occurred During -CLIMB	L AVIATION) Aircra NONE Fire NONE	Pa	Fatal rew 0 ass 0 ther 0	Injur Serious O O	ies Minor O O	None 17 28 2
Aircraft Information Make/Model - BOEING VC-137B-BN Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 258000 No. of Seats - UNK/NR	J ,,			Installed/A		
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 3000 FT OVER Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - DUSK	Itinerary Last Departure Poir CLEVELAND,OH Destination CAMP SPRINGS,MD ATC/Airspace Type of Flight Plar CAST Type of Clearance Type Apch/Lndg	n - IFR	OFF Al Airport E Runway Runway Runway		N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) MILITARY SE LAND,ME LAND	Age - 35 Biennial Flight Review Current - UNK/N Months Since - UNK/N Aircraft Type - UNK/N	NR Total	light Time (H - 4592 - UNK/NR - UNK/NR	lours) Last 24 Last 30 Last 90	Hrs - UN	K/NR IK/NR IK/NR
Instrument Rating(s) - AIRPLANENarrative A BOEING VC-137B-BW, USAF #58-6971, OPERATING ON AN IFR CLEARANCE. AFTER DEPARTING CLEVELAN CONTROL & WAS TRANSFERED TO CLEVELAND ARTCC. FLT LEVEL 230. A CESSNA 310J, N3057L, WAS CRU UNDER CONTROL OF CLEVELAND ARTCC. AS AF-2 WAS ACTIVATED FOR BOTH ACFT, ALERTING THE CONTROL AF-2 TO MAINTAIN 12,000 FT. AF-2 ACKNOWLEDGED DECREASING. RADAR DATA SHOWED A MIN SLANT RAN OPERATIONAL ERROR INVOLVING LESS THAN STANDAR	D, AF-2 WAS ASSIGNED AN AI ON INITIAL CONTACT WITH CI ISING IN THE SAME VICINITY CLIMBING THRU 12,200, AR LER OF A PENDING LOSS OF I . HOWEVER, AF-2 REACHED AF GE DIST OF 1/4 MI WITH 600	LT OF 8000 FT MSL LEVELAND ARTCC, A: (ON AN IFR CLEAR: CCC'S ATC COMPUTE: REQUIRED SEPARATI PRX 13,000 FT BEF O FT VERT SEPN. T	BY CLEVELAND F-2 WAS CLEAR ANCE AT 13,00 R CONFLICT AL ON. THE CONTR ORE STARTING HIS CONSTITUT	DEPARTURE RED TO CLIMB DO FT & WAS LERT FUNCTIO ROLLER INSTR DESCENT & S FED AN ATC	ALSO N WAS UCTED EPN CONTD	

File No. - 5059 9/30/84 AKRON,OH A/C Reg. No. 86971 Time (Lc1) - 1758 EDT

Occurrence MISCELLANEOUS/OTHER
Phase of Operation CLIMB - TO CRUISE

Finding(s)
1. IFR SEPARATION STANDARDS - NOT MAINTAINED - ATC PERSONNEL(ARTCC)

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

----Probable Cause----

File No 5059 9/30/84 AKRON	, он	A/C Reg. No.	N3057L	Т	ime (Lc1) -	1758 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL	_ AVIATION)	Aircraft Damag NONE Fire	e Crew	Fatal O	Injur Serious O	ies Minor O	None 2
Flight Conducted Under -14 CFR 91 Incident Occurred During -CRUISE		NONE	Pass Other	0	0	0	0 45
Aircraft Information Make/Model - CESSNA 310J Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5100 No. of Seats - 6	Eng Make/Moo Number Engir Engine Type Rated Power	- RECIP-FUE	L INJECTED		Installed/A Stall Warnin		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - IN PERSON Completeness - FULL Basic Weather - IMC Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 3000 FT OVERG Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - DUSK		WI MD nt Plan - IFR rance - IFR	,	OFF Al Airport C Runway Runway Runway	/ Ident - / Lth/Wid - / Surface -	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND	Age - 54 Biennial Flight Re Current Months Since Aircraft Type	view - YES To - 13 Ma - C-310 Ir		t Time (H 3002 K/NR K/NR	dours) Last 24 Last 30 Last 90	Hrs - UN Days- UN	IK/NR IK/NR IK/NR
Instrument Rating(s) - AIRPLANE							
A BOEING VC-137B-BN, USAF #58-6971, OPERATING ON AN IFR CLEARANCE. AFTER DEPARTING CLEVELAND CONTROL & WAS TRANSFERED TO CLEVELAND ARTCC. OF LT LEVEL 230. A CESSNA 310J, N3057L, WAS CRUUNDER CONTROL OF CLEVELAND ARTCC. AS AF-2 WAS ACTIVATED FOR BOTH ACFT, ALERTING THE CONTROL AF-2 TO MAINTAIN 12,000 FT. AF-2 ACKNOWLEDGED DECREASING. RDAR DATA SHOWED A MIN SLANT RANGOPERATIONAL ERROR INVOLVING LESS THAN STANDAR	D, AF-2 WAS ASSIGNED DN INITIAL CONTACT VISING IN THE SAME V CLIMBING THRU 12,20 LER OF A PENDING LOS LER OF A PENDING LOS LOST OF 1/4 MI W E DIST OF 1/4 MI W	D AN ALT OF BOOMITH CLEVELAND ICINITY ON AN IOOO ARTCC'S ATC SS OF REQUIRED CHED APRX 13,00 ITH600 FT VRT. S	O FT MSL BY O ARTCC, AF-2 N FR CLEARANCE COMPUTER CON SEPARATION. SO FT BEFORE SEPN. THIS COI	CLEVELAND WAS CLEAF AT 13,00 FLICT ALE THE CONTE STARTING NSTITUTE	DEPARTURE RED TO CLIMB DO FT & WAS ERT FUNCTION ROLLER INSTR DESCENT & S D AND ATC	ALSO WAS UCTED EPN CONTD	

File No 5059	9/30/84 AK	RON, OH	A/C Reg. No. N3057L	Time (Lc1) - 1758 EDT	
	CELLANEOUS/OTHER ISE - NORMAL				
Finding(s) 1. IFR SEPARATION STAND	ARDS - NOT MAINTA	INED - ATC PERSONI	NEL(ARTCC)		
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

File No 5105 12/21/84 AKF	RON, OH	A/C Reg. No. N25RL Time (Lc1) - 1430 EST			•		
Basic Information Type Operating Certificate-NONE (GENE	ERAL AVIATION)	Aircraft D	amage		Injur		
T		MINOR	_	Fatal	Serious	Minor	None
Type of Operation -EXECUTIVE		Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91 Incident Occurred During -LANDING		NONE	Pass	s 0	0	0	1
Aircraft Information Make/Model - BEECH 58P Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5400 No. of Seats - 6		ingines - 2 Type - RECIP	NENTAL TSIO-520 -FUEL INJECTED 5 HP		Installed// tall Warnir		
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - FSS	•	rture Point		ON AIR	PORT		
Method - UNK/NR	PEORIA,			A 1			
Completeness - UNK/NR	Destination			Airport D			
Basic Weather - IMC	MEDINA,	UH			FULTON	0=	
Wind Dir/Speed- 120/008 KTS Visibility - 75.0 SM	ATC /Ainense			•		- 25	150
Lowest Sky/Clouds - UNK/NR	ATC/Airspac	e Ilight Plan - I	t n		Lth/Wid - Surface -	- 0355/ - CONCRETE	
Lowest Ceiling - OBSCURED	- 1	Clearance - N		•	Status		Ė
Obstructions to Vision- FOG	Type Apch		LS-LOCALIZER	Ruilway	Status	WEI	
Precipitation - RAIN	Type Aper		ULL STOP				
Condition of Light - DAYLIGHT		·					
Personnel Information							.
Pilot-In-Command	Age - 38		dical Certifica) WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight			ght Time (H			
ATP, CFI	Current	- YES	Total -		Last 24		1
SE LAND, ME LAND, SE SEA, ME SEA	Months Sinc		Make/Model-		Last 30		
	Aircraft Ty	pe - UNK/NR	Instrument- Multi-Eng -		Last 90	Days-	154
			murti-chy -	31/1			
Instrument Rating(s) - AIRPLANE							
JRING ARRIVAL AT MEDINA, OH, THE PLT DISCO E WAS VECTORED FOR A LOCALIZER APCH TO RWY	/ 25. DURING THE AP	CH, HE DESCEND	ED TO THE MIN D	SESCENT ALT	(MDA) OF	г.	
12 FT AGL. WHEN HE HAD THE ARPT IN SIGHT, BOUT 1/3 OF THE WAY DOWN THE WET RWY. THE E DECIDED THERE WAS SUFFICIENT OVERRUN & (PLT REPORTED THAT	WHEN HE APPLIE	D BRAKES, THE A	ACFT BEGAN	HYDROPLANII	NG.	
) GO AROUND. HOWEVER, HE WAS UNAWARE THAT FF THE RWY. BEYOND THE 398 FT OVERRUN, THE JT OF SERVICE FOR OVER 6 MOS.	THERE WERE RAILROA	D TRACKS JUST	BEYOND THE OVER	RRUN. THE A	CFT CONTINU		
			·				

File No. - 5105 12/21/84 AKRON, OH A/C Reg. No. N25RL Time (Lc1) - 1430 EST

Occurrence #1 Phase of Operation LANDING - ROLL

OVERRUN

Finding(s)

- 1. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION FOG
- 4. WEATHER CONDITION RAIN
- 5. AIR NAVIGATION AIDS, NDB UNAVAILABLE
- 6. FLIGHT TO ALTERNATE DESTINATION PERFORMED PILOT IN COMMAND
- 7. WEATHER CONDITION UNFAVORABLE WIND
- 8. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION WET
- 9. GO-AROUND NOT PERFORMED PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH TERRAIN Phase of Operation LANDING - ROLL

Finding(s)

10. TERRAIN CONDITION - ROUGH/UNEVEN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 9

Factor(s) relating to this incident is/are finding(s) 1,2,3,4,7,8,10

Basic Information Type Operating Certificate	-AIR CARRIER - F	LAG/DOMESTIC	Aircraft D	amage		Inju	ries	
Name of Carrier Type of Operation Flight Conducted Under	TRANSCENTRAL A	RLINE CORP	NONE	J	Fatal			None
Type of Operation -	-SCHEDULED, DOMES	TIC, PASSENGER	Fire	Cro		0	0	4
Flight Conducted Under Incident Occurred During	-14 CFR 121		NONE	Pa	ss O	0	0	16
The raent occarried barring	- LANDING 							
Aircraft Information								
Make/Model - NIHON YS-1				-ROYCE DART 5	42-10J EL			
Landing Gear - TRICYCLE-RE	ETRACTABLE	Number Eng				Stall Warni	ng System	- YES
Max Gross Wt - 51800		Engine Typ						
No. of Seats - 55		Rated Powe	er - 230	5 HP				
Environment/Operations Inform	mation							
Veather Data		Itinerary			Airpor	t Proximity		
Wx Briefing - UNK/NR		Last Depart			ON A	IRPORT		
Method - UNK/NR		LITTLE RO	OCK, AR					
Completeness - UNK/NR		Destination			Airport			
Basic Weather - VMC		TULSA, OK				A INT'L		
Wind Dir/Speed- 150/023 k		ATO /A !					- 17L	200
Visibility - 10.0 Lowest Sky/Clouds -		ATC/Airspace	labt Diam - T	ED.		ay Lth/Wid ay Surface		200
	1700 FT OVERCAS	Type of Fli					- DRY	
Obstructions to Vision- N			ndg - I		Kanw	ay Status	DKI	
Precipitation - N		1,460 ,460.1,2		20 00 22.12				
Condition of Light - [
Personnel Information								
Pilot-In-Command	Ac	je - 35	Me	dical Certifi	cate - VAL	ID MEDICAL-W	AIVERS/LIN	/IT
<pre>Certificate(s)/Rating(s)</pre>	В	ennial Flight R			ight Time	(Hours)		
ATP		Current	- UNK/NR	Totai -	6000		4 Hrs - UN	
SE LAND, ME LAND		Months Since		Make/Mode1-	800	Last 3	O Days- UN	NK/NR
		Aircraft Type	e - UNK/NR	Instrument-	UNK/NR	Last 3 Last 9 Rotorc	O Days- UN	NK/NR
				Multi-Eng -	UNK/NR	Rotorc	raft - UN	NK/NR
Instrument Rating(s)	- AIRPLANE							
Narrative ACFT EXPERIENCED A NOSE WHEEL	CTEEDING MALE	INCTION & DAM OF	E THE DWV DU	DINC LANDING	THE NOSE	WHEEL CVCTEM		
REMOVED FROM THE ACFT & SUBMI			_					

2/15/84	TULSA,OK	A/C Reg. No. N903TC	Time (Lcl) - 1010 CST
· ·	IT/SYSTEM FAILURE/	MALFUNCTION	
EWHEEL STEERING -			
	ON GROUND		
	ON WITH TERRAIN		
N - GROUND N - WET			
	AIRFRAME/COMPONEN UNKNOWN EWHEEL STEERING - LOSS OF CONTROL - LANDING - ROLL ON GROUND COLLISI LANDING - ROLL N - GROUND	UNKNOWN EWHEEL STEERING - FATIGUE LOSS OF CONTROL - ON GROUND LANDING - ROLL ON GROUND COLLISION WITH TERRAIN LANDING - ROLL N - GROUND	AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION UNKNOWN EWHEEL STEERING - FATIGUE LOSS OF CONTROL - ON GROUND LANDING - ROLL ON GROUND COLLISION WITH TERRAIN LANDING - ROLL N - GROUND

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) $\mathbf{1}$

Brief of Incident

File No 5078 10/26/84 TU	ULSA,OK	A/C Reg. No. N	I5115S	T 1	ime (Lc1)	- 0824 CD1	-
Basic Information Type Operating Certificate-COMMUTER Name of Carrier -SCHEDULEE Type of Operation -SCHEDULEE Flight Conducted Under -14 CFR 13 Incident Occurred During -CRUISE	D SKYWAYS D,DOMESTIC,PASSENGER	Aircraft Damage MINOR Fire NONE	Crew Pass	Fatal O O		0	None 2 7
Aircraft Information Make/Model - SWEARINGEN SA226TC Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 12500 No. of Seats - 24	E Number Engir	- TURBOPROP	TPE 331			/Activated ing System	
Environment/Operations Information Weather Data Wx Briefing - NWS Method - TELEPHONE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- CALM Visibility - 2.500 SM Lowest Sky/Clouds - 1300 FT Lowest Ceiling - 1300 FT Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	- Itinerary Last Departur TULSA,OK Destination FAYETTEVILL ATC/Airspace Type of Fligh OVERCAST Type Apch/Lnc	E,AR et Plan - IFR eance - IFR	3	ON AIRF Airport Da TULSA : Runway Runway Runway	ata INTL' Ident Lth/Wid	- 26 - 7700/ - ASPHALT	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP,CFI SE LAND,ME LAND	Age - 27 Biennial Flight Rev Current - Months Since - Aircraft Type -	riew · UNK/NR Tota · UNK/NR Make · UNK/NR Inst	al -	t Time (Ho 6495 2866 615	ours) Last : Last :	WAIVERS/LII 24 Hrs - 30 Days- UI 90 Days-	5
Instrument Rating(s) - AIRPLANGNarrative DURING CRUISE, THE CREW EXPERIENCED A LOSS HEY USED THE EMERG GEAR EXTENSION SYSTEM HYDRAULIC LINE HAD SPRAYED FLUID IN THE COLOR. INE, BUT PARTS WERE REPORTEDLY NOT AVAILA FAILURE HAD OCCURRED AT A LONGITUDINAL SCI	S OF HYDRAULIC PRESSURE & MADE A SAFE EMERG LAN OCKPIT. A RECENTLY ISSUE ABLE. LONGITUDINAL SCRAT	IDING. AN EXAM RE ED SERVICE BULLET CHES WERE FOUND	EVEALED A C	RACKED 200 NDED REPL	OO PSI ALI ACEMENT O	UMINUM F THAT	

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File No. - 5078 10/26/84 TULSA,OK A/C Reg. No. N5115S Time (Lc1) - 0824 CDT

Occurrence AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation CRUISE - NORMAL

Finding(s)

1. HYDRAULIC SYSTEM,LINE - FATIGUE
2. HYDRAULIC SYSTEM,LINE - BURST
3. MAINTENANCE,SERVICE BULLETINS - NOT FOLLOWED -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

Factor(s) relating to this incident is/are finding(s) 3

Brief of Accident/Incident

File No 6008 4/16/84 DIA	MOND LAKE, OR A/C	Reg. No. CGHLW	1	ime (Lc1) -	1047 PST	
Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION) Aircra	aft Damage		Injur	ies	
	DESTR	ROYED	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	С	rew 1	0	0	0
Flight Conducted Under -14 CFR 91	NONE	P	ass 1	0	0	0
Acc/Inc Occurred During -DESCENT					_	-
Aircraft Information						
Make/Mode1 - CESSNA 150L	Eng Make/Model - (CONTINENTAL 0-200	-A ELT	Installed/A	ctivated	- YES/YES
Landing Gear - TRICYCLE-FIXED	Number Engines -	1	9	Stall Warnir	ng System	- YES
Max Gross Wt - 1600	Engine Type - F	ECIPROCATING-CAR	BURETOR		• ,	
No. of Seats - 2	Rated Power -	100 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - FSS	Last Départure Poir	nt		IRPORT/STŔIF	•	
Method - TELEPHONE	KLAMATH FALLS, OR	. •				
Completeness - FULL	Destination		Airport [)ata		
Basic Weather - IMC	PORTLAND.OR					
Wind Dir/Speed- UNK/NR	TONT EARLY ON		Runway	/ Ident -	- N/A	
Visibility - UNK/NR	ATC/Airspace			/ Lth/Wid -		
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan	- VED	•	/ Surface -	•	
Lowest Ceiling - OBSCURED	Type of Clearance	- VED			- N/A	
Obstructions to Vision- FOG		- NONE	Kuriwa	Julus	11/ 6	
Precipitation - UNK/NR	Type Apich Ling	NONE				
Condition of Light - DAYLIGHT						
					·	
Personnel Information Pilot-In-Command	4.55	Medical Certif	VAL TE	MEDICAL NO	NATVEDC/	
Certificate(s)/Rating(s)	Age - 26 Biennial Flight Review		light Time (F		ANTAEKS/	LIMII .
PRIVATE	Current - YES	Total		Last 24	4 Una -	3
				Last 22 Last 30		_
SE LAND	Months Since - 11 Aircraft Type - C-172	Make/Mode:	- 60			18
	Aircraft Type - C-1/2	2 Instrument	- 5	Last 90	Duays-	23
Instrument Rating(s) - NONE						
Narrative HE ACFT WAS ON A FLT FROM SACRAMENTO, CA T						
ORTLAND & SEATTLE. DURING A WX BRIEFING AT ECOMMENDED. HOWEVER, HE FILED A VFR FLT PLUGENE, HE INDICATED THAT HE WOULD BE CRUIS LEVATION OF ABOUT 5650 FT. THE ACFT CAME TO	AN & PROCEEDED ON THE TRIP. ING AT 11,500 FT. SUBSEQUEN D REST IN A NOSE DOWN ATTITU	WHEN HE FILED A NTLY, THE ACFT CR JDE & PARTIALLY B	FLT PLAN FROM ASHED INTO WO URIED IN SNOW	M KLAMMATH F DODED TERRAI W. AN EXAM (FALLS TO IN AT AN OF THE	
FT REVEALED NO PREIMPACT PART FAILURE OR PACT. PERSONNEL LOCATED ABOUT 4 MI NORTH						
·						

Brief of Accident/Incident (Continued)

File No. - 6008 4/16/84 DIAMOND LAKE, OR A/C Reg. No. CGHLW Time (Lc1) - 1047 PST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE - NORMAL Finding(s) 1. FLIGHT INTO KNOWN ADVERSE WEATHER - INITIATED - PILOT IN COMMAND IMPROPER DECISION, OVER CONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND WEATHER CONDITION - CLOUDS 4. WEATHER CONDITION - FOG 5. WEATHER CONDITION - OBSCURATION 6. VFR FLIGHT INTO IMC - CONTINUED - PILOT IN COMMAND 7. IMPROPER USE OF EQUIPMENT/AIRCRAFT, LACK OF TOTAL INSTRUMENT TIME - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation CRUISE Finding(s) 8. TERRAIN CONDITION - HIGH TERRAIN 9. OBJECT - TREE(S) IN FLIGHT COLLISION WITH TERRAIN Occurrence #3 Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident is/are finding(s) 6 Factor(s) relating to this incident is/are finding(s) 1,2,3,4,5,7,8,9

File No 5045 7/09/84 PORTL	AND,OR A/C Reg	j. No. N9015U	Ti	me (Lc1) -	1415 PDT	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -UNITED AIRLI Type of Operation -SCHEDULED, DO Flight Conducted Under -14 CFR 121 Incident Occurred During -CLIMB	- FLAG/DOMESTIC Aircraft NES, INC. NONE MESTIC,PASSENGER Fire NONE	Damage Crew Pass	Fatal O O	Injur Sertous O O		None 5 66
Aircraft Information Make/Model - BOEING B737-222 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 125000 No. of Seats - 115	Eng Make/Model - P&W Number Engines - 2 Engine Type - TUR Rated Power - 160			nstalled/A all Warnin		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - UNK/NR Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 310/005 KTS Visibility - 25.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAN DIEGO,CA ATC/Airspace Type of Flight Plan - Type of Clearance -	IFR	Airport Da Runway Runway Runway	RPORT/STRIP ita Ident - Lth/Wid - Surface -	· N/A · N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANENarrative FTER TAKEOFF, THE ACFT WAS CLIMBING THRU ABOREW DISCHARGED THE FIRE EXTINGUISHING UNITS	Biennial Flight Review Current - YES Months Since - 5 Aircraft Type - UNK/NR	Total - 1 Make/Model- UN Instrument- UN Multi-Eng - UN	t Time (Ho 8000 K/NR K/NR K/NR UMINATED. F THE APU	Last 24 Last 30 Last 90 Rotorcr THE FLT REVEALED	Hrs - UN Davs- UN	IK/NR IK/NR IK/NR
VIDENCE THAT A HARD OBJECT WAS INJESTED INTO BJECT CONTINUED THRU THE ENG & IMPACTED THE IPE ASSEMBLY. HOT GASES THEN VENTED INTO THE PU.	EXDUCER BLADE. THE BLADE FAI	LED AT A CRACK & P	ENETRATED	THE EXHAUS		
	PAGE-246					

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5071 6/05/84 PHILA	DELPHIA,PA A/C Reg.	No. N8711E	Time (Lcl) - 1312 ED	т
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -POL CANDIDAT Flight Conducted Under -14 CFR 91.59 Incident Occurred During -TAKEOFF	NONE Fire IN FLIGHT	Fatal Crew O	Injuries Serious Minor O O O O	None 7 88
Aircraft Information Make/Model - BOEING 720-025 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 229000 No. of Seats - 102	Eng Make/Model - P&W J Number Engines - 4 Engine Type - TURBO Rated Power - 1200	FAN	Installed/Activated Stall Warning System	
Environment/Operations Information Weather Data Wx Briefing - NWS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 230/007 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 25000 FT THIN Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	LOS ANGELES,CA ATC/Airspace	OFF A Airport Runwa Runwa FR Runwa FR Runwa	y Ident - N/A y Lth/Wid - N/A y Surface - N/A y Status - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE	Age - 61 Me Biennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	edical Certificate - NON- Flight Time (Total - 30000 Make/Model- 6000	VALID MEDICAL Hours) Last 24 Hrs - U	NK/NR NK/NR
Narrative WHILE CLIMBING THRU 600 FT AFTER TAKEOFF, THE LIGHT ILLUMINATED. A FIRE BOTTLE WAS DISCHARG REMAINED ILLUMINATED, SO A 2ND FIRE BOTTLE WA INCIDENT. EMERGENCY EQUIPMENT WAS STANDING BY THE 7TH STAGE TURBINE ASSEMBLY HAD FAILED, PE BY THE DISPLACED 7TH STAGE ASSEMBLY. FUEL LIN	ED. THE COPLT SAW FLAMES COMIN S DISCHARGED. THE AIRCREW RETU & THE PASSENGERS DEPLANED NOR NETRATING THE RIGHT SIDE OF TH	IG FROM THE ENG & THE FIR PRNED TO THE ARPT & LANDE MALLY. AN EXAM OF THE EN BE CASE. THE 6TH & 8TH ST PERE ALSO DAMAGED.	E WARNING LIGHT D WITHOUT FURTHER G REVEALED THAT	

File No. - 5071 6/05/84 PHILADELPHIA,PA A/C Reg. No. N8711E Time (Lc1) - 1312 EDT

Occurrence #1 LOSS OF POWER(PARTIAL) - MECH FAILURE/MALF
Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. TURBINE ASSEMBLY - FAILURE,TOTAL
2. EMERGENCY PROCEDURE - PERFORMED - PILOT IN COMMAND
3. FUEL SYSTEM,LINE - OVERLOAD

Occurrence #2 FIRE
Phase of Operation TAKEOFF - INITIAL CLIMB

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

----Probable Cause----

File No 5053 8/06/84 NAS	HVILLE, TN	A/C Reg. No.	N956VJ	Time (Lc1) -	1305 CDT	
Basic Information Type Operating Certificate-AIR CARRIE Name of Carrier -US AIR Type of Operation -SCHEDULED, Flight Conducted Under -14 CFR 121 Incident Occurred During -CLIMB		ircraft Dámage MINOR ire NONE	Fatal Crew O Pass O	Injuri Serious O O		None 5 80
Aircraft Information Make/Model - MCDONNELL DOUGLAS DC- Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 104000 No. of Seats - UNK/NR	Number Engine Engine Type			T Installed/Ac Stall Warning		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - WEATHER NOT PERTINE Basic Weather - VMC Wind Dir/Speed- 240/008 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 2800 FT SC Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	NT Destination PITTSBURGH,F ATC/Airspace ATTERED Type of Flight Type of Cleara Type Apch/Lndg	Plan - IFR Ince - IFR Company - PRECAU	OFF Airport Runw Runw Runw Runw	ay Ident - ay Lth/Wid - ay Surface - ay Status -	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE	Age - UNK/NR Biennial Flight Revi Current - Months Since - Aircraft Type -	UNK/NR Tot UNK/NR Mak UNK/NR Ins	Certificate - UNK Flight Time al - UNK/NR e/Model- UNK/NR trument- UNK/NR ti-Eng - UNK/NR	Last 24 Last 30 Last 90	Hrs - UNH Days- UNH Days- UNH aft - UNH	K/NR K/NR
DURING THE CLIMB-OUT, A 15% DECREASE IN THE BANG & FAILURE OF THE #2 ENG. THE #2 ENG WAEXAM REVEALED THAT THE RIGHT ENG TOP COWLINENG REMOVAL & TEARDOWN REVEALED THE #5 FUEL ON THE FUEL NOZZLE NUT & INADEQUATELY COMPRALLOWED LOCAL OVERTEMP OF THE OUTER COMBUST	S SHUT DOWN & THE ACFT IG HAD SEPARATED & THE L . NOZZLE NUT LOCK RING N RESSED THE #5 FUEL NOZZL TON CHAMBER CASE AT THE	WAS FLOWN BACK OWER SECTION O VAS MIS-ASSEMBL E SEAL. SUBSEQ E 6 O'CLOCK POS	TO THE DEPARTURE F THE COMBUSTION CED. THIS DETRACTED UENTLY, THE FUEL NITION.	ARPT. AN INIT: ASE WAS SPLIT. FROM THE TORG OZZLE LEAKED &	DUE	
	PAGE-226)				

File No. - 5053 8/06/84 NASHVILLE, TN A/C Reg. No. N956VJ Time (Lc1) - 1305 CDT

LOSS OF POWER(PARTIAL) - MECH FAILURE/MALF

Phase of Operation CLIMB - TO CRUISE

Finding(s)

- 1. FUEL SYSTEM, NOZZLE OTHER
- 2. MAINTENANCE, INSTALLATION IMPROPER OTHER MAINTENANCE PSNL
- 3. COMBUSTION ASSEMBLY OVERTEMPERATURE
- 4. COMBUSTION ASSEMBLY, OUTER CASING FAILURE, TOTAL
- 5. NACELLE/PYLON SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2,3,4

TER DULED SKYWAYS, INC. DULED,DOMESTIC,PASSENGE ER 135 SE		amage Crew Pass	_	Injur Serious O O		None 1
DULED SKYWAYS, INC. DULED,DOMESTIC,PASSENGE R 135	MINOR R Fire NONE	Crew	0	Serious O	Minor 1	1
OULED, DOMESTIC, PASSENGE R 135	R Fire NONE		0	0	1	1
		. 455	Ū			12
					· ·	
		EARCH TPE 331				
ABLE Number			St	all Warning	g System -	YES
	<i>y</i> ,	PROP				
Rated P	ower - 84	O HP				
]						
Itinerary						
			OFF AIR	PORT/STRIP		
	S,TN					
RTINENT Destinati	on		Airport Da	ıta		
FT. SM	ITH, AR					
					N/Å	
FT OVERCAST Type of	Clearance - I	FR	Runway	Status -	N/A	
Type Apc	h/Lndg - U	NK/NR				
SHT						
					IVERS/LIMI	ĬΤ
						6
						55
Aircraft T	ype - SA226TC					275
		Multi-Eng -	3500	Rotorcr	aft - UN	K/NR
PLANE						
	ABLE Number Engine Rated P Itinerary Last Dep MEMPHI RTINENT Destinati FT. SM ATC/Airspa FT SCATTERED Type of Type of Type Apc GHT Age - 51 Biennial Fligh Current Months Sin Aircraft T	ABLE Number Engines - 2 Engine Type - TURBO Rated Power - 84 Itinerary Last Departure Point MEMPHIS,TN ERTINENT Destination FT. SMITH,AR ATC/Airspace FT SCATTERED Type of Flight Plan - I Type Apch/Lndg - U SHT Age - 51 Me Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - SA226TC	ABLE Number Engines - 2 Engine Type - TURBOPROP Rated Power - 840 HP Itinerary Last Departure Point MEMPHIS,TN ERTINENT Destination FT. SMITH,AR ATC/Airspace FT SCATTERED Type of Flight Plan - IFR Type Apch/Lndg - UNK/NR HT Age - 51 Medical Certifica Biennial Flight Review Flig Current - YES Total - Months Since - 1 Make/Model- Aircraft Type - SA226TC Instrument- U Multi-Eng -	ABLE Number Engines - 2 Engine Type - TURBOPROP Rated Power - 840 HP Itinerary Last Departure Point OFF AIR MEMPHIS,TN RTINENT Destination Airport Da FT. SMITH,AR ATC/Airspace Runway FT SCATTERED Type of Flight Plan - IFR Runway Type Apch/Lndg - UNK/NR Age - 51 Medical Certificate - VALID Biennial Flight Review Flight Time (Ho Current - YES Total - 7500 Months Since - 1 Make/Model - 250 Aircraft Type - SA226TC Instrument - UNK/NR Multi-Eng - 3500	ABLE Number Engines - 2 Engine Type - TURBOPROP Rated Power - 840 HP Itinerary Last Departure Point MEMPHIS,TN RTINENT Destination FT. SMITH,AR ATC/Airspace ATC/Airspace FT SCATTERED Type of Flight Plan - IFR Type Apch/Lndg - UNK/NR Age - 51 Biennial Flight Review Current - YES Months Since - 1 Make/Model - 250 Multi-Eng - 3500 Rotorcr	ABLE Number Engines - 2 Engine Type - TURBOPROP Rated Power - 840 HP Itinerary Last Departure Point MEMPHIS,TN Destination FT. SMITH,AR ATC/Airspace FT SCATTERED Type of Flight Plan - IFR Type Apch/Lndg - UNK/NR AGe - 51 Biennial Flight Review Current - YES Months Since - 1 Make/Model - 250 Multi-Eng - 3500 Rotorcraft - UNk/NR Stall Warning System - Stall Warning Stall Stall Warning

File No. - 5091 8/13/84 MEMPHIS, TN A/C Reg. No. N501SS Time (Lc1) - 1540 CDT

Occurrence

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation CRUISE

Finding(s)

1. WINDOW, FLIGHT COMPARTMENT WINDOW/WINDSHIELD - FATIGUE

2. WINDOW, FLIGHT COMPARTMENT WINDOW/WINDSHIELD - SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Brief of Accident/Incident

asic Information Type Operating Certificate-NONE (GEN	IERAL AVIATION)	Aircraft Damage			Injuri	les	
,,,,,,, operating out the least west. (a.s.	,	SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -PERSONAL		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	0
Acc/Inc Occurred During -LANDING							
ircraft Information							
Make/Model - CESSNA 182		el - UNKNOWN UNKNO	OWN		nstalled/Ad		
Landing Gear - TRICYCLE-FIXED	Number Engin		CADBURETO		all Warning	j System	- YES
Max Gross Wt - 1640 No. of Seats - 4	Engine Type Rated Power		3-CARBURE IU	ĸ			
NO. 01 Seats - 4	Rated Fower	- UNK/NK					
Invironment/Operations Information				B			
/eather Data Wx Briefing - NO RECORD OF BRIEF	Itinerary ING Last Departur	o Doint	А	ON AIRP	roximity		
Method - N/A	REYNOSA,MX	e Point		UN AIRP	UKI		
Completeness - N/A	Destination		Δi	rport Da	ta		
Basic Weather - VMC	SAME AS ACC	/INC	6.	MILLER			
Wind Dir/Speed- 340/004 KTS	S2	, 2				31	
Visibility - 4.000 SM	ATC/Airspace			Runway	Lth/Wid -	4103/	150
Lowest Sky/Clouds - 1400 FT S					Surface -		
	OVERCAST Type of Clear			Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lnd	g - TRAFFIC I	PATTERN				
Precipitation · - NONE Condition of Light - DUSK							
Personnel Information Pilot-In-Command	Age - UNK/NR	Medical Co	ertificate	- LINK/NE	1		
Certificate(s)/Rating(s)	Biennial Flight Rev		Flight				
UNK/NR		LINIZ /ND T-4-1	LINU /	NID.	100+ 04	Hrs - UN	IK/NR
	Months Since -	UNK/NR Make/I	Model- UNK/	NR	Last 30	Days- UN	IK/NR
	Aircraft Type -	UNK/NR Instr	ument- UNK/	'NR	Last 30 Last 90	Days- UN	IK/NR
		Multi	-Eng - UNK/	'NR	Rotorcr	aft - UN	IK/NR
Instrument Rating(s) - UNK/NR				•			
Narrative PH, A FOREIGN REGISTERED ACFT, WAS OBS	SERVED BY THE TOWER OPEN	ATOD TO DIVE TOW	ADD THE DWY	2. DHI	UD PEEDDE		
'N. A FUKEIGN KEGISTEKEU AUFT. WAS UB:	DEKVED BY IME IUWEK UPEK	KING THE PROPELLE	AKD IDE KWI	& FULL	OF DEFORE		

Brief of Accident/Incident (Continued)

File No. - 6005 1/07/84 MCALLEN,TX A/C Reg. No. XBCPH Time (Lc1) - 1705 CST

Occurrence

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. FLARE - IMPROPER - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident/incident is/are finding(s) 1

File No 5041 3,	/07/84 FOR	WORTH, TX	A/C Re	eg. No. N888E	3		Time (Lc1) - 20	16 CS1	-
Basic Information Type Operating Certifica	te-NONE (GENER	RAL AVIATION)	Aircraft	: Damage				juries		
			MINOR		_	Fatal	Serious	s Mi	inor	None
Type of Operation	-PUBLIC USE		Fire		Crew	0	0		0	2
Flight Conducted Under Incident Occurred During			NONE		Pass	0	0		0	5
Aircraft Information	•••		M 1-1 DOI							VEC /NO
Make/Model - BEECH BE Landing Gear - TRICYCLE			Model - P&W gines - 2				Installe Stall Warı	•		•
Max Gross Wt - 12500	RETRACTABLE	Engine Tv	_				Stall War	iiig sy	/s tem	- 123
No. of Seats - 10		Rated Pow		850 HP						
Environment/Operations Info	ormation	•								
Weather Data Wx Briefing - UNK/NR		Itinerary	tuna Dai-t			Airport ON AI	Proximity	Y		
Wx Briefing - UNK/NR Method - UNK/NR		Last Depar SAN JOSE				UN AI	RPURI			
Completeness - WEATHER			•			Airport	Data			
Basic Weather - VMC	K 1401 I EKITIALI	SAME AS				MEACH				
Wind Dir/Speed- 200/000	6 KTS	SAME AS	, 2				v Ident	- 161	_	
Visibility - 7.0		ATC/Airspace					v Lth/Wid			150
Lowest Sky/Clouds -	CLEAR	Type of F1	ight Plan -	· IFR		Runwa	y Surface	- ASF	HALT	
	- NONE	Type of C1					y Status			
Obstructions to Vision		Type Apch/	Lndg -	TRAFFIC PAT	TTERN		-			
Precipitation				FULL STOP						
Condition of Light	- NIGHT(BRIGH	⁻) 								
Personnel Information Pilot-In-Command		Age - 45		Medical Cert	tificat	to - VALT	D MEDICAL	_WATVE	oc/itk	AT T
Certificate(s)/Rating(s)	Biennial Flight	Review	medical cer		nt Time (MAIVE	(3) [1]	
COMMERCIAL, ATP, CFI	,	Current	- YFS	Total				24 Hrs	-	5
SE LAND, ME LAND		Current Months Since	- 7	Make/Mod				30 Dav		
		Aircraft Typ	e - UNK/NR	Instrume				90 Day		90
		•••		Mu1ti-Er	ng -	3300		•		
Instrument Rating(s)	- AIRPLANE									
Narrative						· ·				
		AID DIEEEDENITIAL DW	D HISED TO N	SATNTAIN DIRE	ECTION	AL CONTRO	L. BOTH			
	EAVY BRAKING A	MIND DILLEKEMITAL DM	K 03LD 10 1		TO 1 TO 147					
FT VEERED RT ON TOUCHDOWN. HI								ATED		
FT VEERED RT ON TOUCHDOWN. HI SIDE TIRES AND THE LEFT OUTE RING ROLLOUT. AFTER ENGINES V	BOARD TIRE BLE	W DURING ROLLOUT.	PLT STATED	LEFT MAIN GE	EAR UNS	SAFE LIGH	T ILLUMIN			
FT VEERED RT ON TOUCHDOWN. HI SIDE TIRES AND THE LEFT OUTS	BOARD TIRE BLE WERE SECURED F	W DURING ROLLOUT. PAX & CREW EVACUATE	PLT STATED D ACFT. A F	LEFT MAIN GE PAX STEPPED (EAR UNS ON AIRS	SAFE LIGH STEP DOOR	T ILLUMIN TO ENTER	ACFT		
FT VEERED RT ON TOUCHDOWN. HI SIDE TIRES AND THE LEFT OUTE RING ROLLOUT. AFTER ENGINES V	BOARD TIRE BLE WERE SECURED F VESTIGATION RE	EW DURING ROLLOUT. PAX & CREW EVACUATE EVEALED MAIN GEAR C	PLT STATED D ACFT. A F OCKPIT LIGH	LEFT MAIN GE PAX STEPPED O HTS WERE WIRE	EAR UNS ON AIRS ED BACK	SAFE LIGH STEP DOOR KWARDS, T	T ILLUMIN TO ENTER HUS THE F.	ACFT ALSE		
FT VEERED RT ON TOUCHDOWN. HI SIDE TIRES AND THE LEFT OUTE RING ROLLOUT. AFTER ENGINES N D RT MAIN GEAR COLLAPSED. IN SAFE WARNING ON LEFT GEAR. R' AKE PLATE ASSEMBLIES SHOWED N	BOARD TIRE BLE WERE SECURED F VESTIGATION RE T WHEEL INBOAF EVIDENCE OF HE	EW DURING ROLLOUT. PAX & CREW EVACUATE EVEALED MAIN GEAR C RD BRAKE WAS BINDIN EAT. DISASSEMBLY OF	PLT STATED D ACFT. A F OCKPIT LIGH G WHEN 100 WHEEL ASS'	LEFT MAIN GE PAX STEPPED C HTS WERE WIRE PSI TEST PRE Y REVEALED F	EAR UNS ON AIRS ED BACK ESSURE PISTON	SAFE LIGH STEP DOOR (WARDS, T WAS RELE BORES HA	T ILLUMINA TO ENTER HUS THE FA ASED. BOTI D BEEN SAI	ACFT ALSE H NDED DO		
FT VEERED RT ON TOUCHDOWN. HI SIDE TIRES AND THE LEFT OUTE RING ROLLOUT. AFTER ENGINES N D RT MAIN GEAR COLLAPSED. IN SAFE WARNING ON LEFT GEAR. R AKE PLATE ASSEMBLIES SHOWED N POINT WHERE 16 RMS FINISH W	BOARD TIRE BLE WERE SECURED F VESTIGATION RE T WHEEL INBOAF EVIDENCE OF HE AS REMOVED. BO	EW DURING ROLLOUT. PAX & CREW EVACUATE EVEALED MAIN GEAR C EVEALED MAIN GEAR C EVEALED MAIN GEAR EVEALE	PLT STATED D ACFT. A F OCKPIT LIGH G WHEN 100 WHEEL ASS' O" RINGS SH	LEFT MAIN GE PAX STEPPED C HTS WERE WIRE PSI TEST PRE Y REVEALED F HOWED DETERIO	EAR UNS ON AIRS ED BACK ESSURE PISTON DRATION	SAFE LIGH STEP DOOR (WARDS, T WAS RELE BORES HA N. HYDRAU	T ILLUMIN, TO ENTER HUS THE F. ASED. BOTH D BEEN SAH LIC FLUID	ACFT ALSE H NDED DO WAS OI		
FT VEERED RT ON TOUCHDOWN. HI SIDE TIRES AND THE LEFT OUTE RING ROLLOUT. AFTER ENGINES N O RT MAIN GEAR COLLAPSED. IN SAFE WARNING ON LEFT GEAR. R NEE PLATE ASSEMBLIES SHOWED N	BOARD TIRE BLE WERE SECURED F VESTIGATION RE T WHEEL INBOAF EVIDENCE OF HE AS REMOVED. BO ND CONTAINED F	W DURING ROLLOUT. AX & CREW EVACUATE EVEALED MAIN GEAR CR RD BRAKE WAS BINDIN EAT. DISASSEMBLY OF TH SHUTTLE VALVE " HIGH CONCENTRATIONS	PLT STATED D ACFT. A F OCKPIT LIGH G WHEN 100 WHEEL ASS' O" RINGS SH	LEFT MAIN GE PAX STEPPED C HTS WERE WIRE PSI TEST PRE Y REVEALED F HOWED DETERIO	EAR UNS ON AIRS ED BACK ESSURE PISTON DRATION	SAFE LIGH STEP DOOR (WARDS, T WAS RELE BORES HA N. HYDRAU	T ILLUMIN, TO ENTER HUS THE F. ASED. BOTH D BEEN SAH LIC FLUID	ACFT ALSE H NDED DO WAS OI		

File No. - 5041 3/07/84 FORT WORTH,TX A/C Reg. No. N888B Time (Lc1) - 2016 CST

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. UNDETERMINED
2. MAINTENANCE - IMPROPER - OTHER MAINTENANCE PSNL
3. LANDING GEAR,NORMAL BRAKE SYSTEM - BINDING(MECHANICAL)
4. LANDING GEAR,GEAR WARNING SYSTEM - INCORRECT
5. FLUID,HYDRAULIC - CONTAMINATION

Occurrence #2 MAIN GEAR COLLAPSED Phase of Operation OTHER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

ic Information ype Operating Certificate-			Damage		Injuri	es	
lame of Carrier -	AMERICAN AIRLINES, INC	. MINOR	J	Fatal	Serious	Minor	None
ype of Operation - light Conducted Under -	SCHEDULED, DOMESTIC, PASS	SENGER Fire	Cre		0	0	7
		NONE	Pas	ss O	0	0	34
ncident Occurred During -	CRUISE						
craft Information							
Make/Model - BOEING 727-		g Make/Model - P&w			Installed/Ac		
anding Gear - TRICYCLE-RE		mber Engines - 3		S.	tall Warning	, System	- YES
lax Gross Wt - 153000		gine Type - TUR					
lo. of Seats - 125	ка:	ted Power - 14	000 LBS THRUST				
vironment/Operations Inform							
ther Data	Itine			Airport	Proximity		
/× Briefing - COMPANY		t Departure Point		OFF AII	RPORT/STRIP		
Method - UNK/NR		AN ANTONIO,TX		41 D	- 4 -		
Completeness - UNK/NR Basic Weather - VMC		ination HICAGO.IL		Airport Da	ata		
Wind Dir/Speed- 030/006 K		AICAGO,IL		Bunway	Ident -	N/A	
Visibility - 7.0		irspace			Lth/Wid -		
	2500 FT SCATTERED Type		TER		Surface -		
Lowest Ceiling - 2		e of Clearance -			Status -		
Obstructions to Vision- N		e Apch/Lndg -			• • • • • • • • • • • • • • • • • • • •	,	
Precipitation - N	IONE	, , ,	•				
Condition of Light - D	AYLIGHT						
rsonnel Information	,						
lot-In-Command	Age -		Medical Certifi			WAIVERS	/LIMIT
Certificate(s)/Rating(s)		Flight Review	Fì	ight Time (H	ours)		
ATP	Curre		Total -	9000 4500	Last 24	Hrs - U	NK/NR
ME LAND	Month	s Since - UNK/NR	Make/Model-	4500	Last 30	Days- U	NK/NR
	Aircr	aft Type - UNK/NR	Instrument-	UNK/NR	Last 90	Days- U	NK/NR
			Multi-Eng -	UNK/NR	Rotorcra	aft - U	NK/NR
	- AIRPLANE						
		aft Type - UNK/NR	Instrument- Multi-Eng -	UNK/NR UNK/NR	Last 90 Rotorcra	Da aft	iys- U : - U

File No. - 5040 3/10/84 DFW AIRPORT,TX A/C Reg. No. N1993 Time (Lc1) - 1341 CST

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation CRUISE - NORMAL

Finding(s)
1. FUSELAGE,SKIN - FATIGUE
2. FUSELAGE,SKIN - FAILURE,PARTIAL

Occurrence #2 DECOMPRESSION
Phase of Operation CRUISE - NORMAL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

Brief of Incident

File No 5095 9/15/84 DFW A	IRPORT,TX A/C Re	g. No. N124AA	Т	ime (Lc1) -	1305 CDT	
Basic Information Type Operating Certificate-AIR CARRIER Type of Operation -FERRY Flight Conducted Under -14 CFR 91 Incident Occurred During -DESCENT	- FLAG/DOMESTIC Aircraft MINOR Fire NONE	Damage Crew Pass	-	Injur Serious O O	ies Minor O O	None 3 0
Aircraft Information Make/Model - MCDONNELL-DOUGLAS DC-10 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 440000 No. of Seats - 345	-10 Eng Make/Model - GE Number Engines - 3 Engine Type - TUR Rated Power - UNK	BOFAN		Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 040/012 KTS Visibility - 12.0 SM Lowest Sky/Clouds - 1600 FT THIN Lowest Ceiling - 0bstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC ATC/Airspace BKN Type of Flight Plan - Type of Clearance -		OFF AI Airport D DFW RE Runway Runway Runway	GIONAL Ident - Lth/Wid - Surface -	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE	Age - 46 Biennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	Medical Certifica Flig Total - Make/Model- Instrument- L Multi-Eng - L	tht Time (H 16000 14500 JNK/NR	lours) Last 24 Last 30 Last 90	l Hrs - UN) Days- UN) Days- UN aft - UN	K/NR K/NR
THE ACFT EXPERIENCED SEPN OF THE RGT WING #3 THAT ON 7/5/84, THE COMPANY PERFORMED A "C" C SLAT RETRACT ALUMINUM PULLEY, P/N 1969-132, W ILLUSTRATED CATALOGUE SPECIFIES THAT AN ALUMI THE PHENOLIC PULLEY BECAUSE FLT JOADS ON THE EXAMINATION OF THE FAILED PULLEY & CABLE INDI DC-10'S REVEALED AT LEAST 3 OTHER ACFT HAD PH	HECK INSPECTION OF THE ACFT. AS REPLACED WITH A PHENOLIC NUM PULLEY BE INSTALLED ON 1 #3 SLAT EXCEEDED THE DESIGN CATED EVIDENCE OF AN OVERLOA	AT THIS TIME A F PULLEY, P/N 1969- HE #3 LEADING EDO LOAD OF THE PHENO D FAILURE. INSPEC	RGT WING #3 -172. THE D GE SLAT RAT DLIC PULLEY CTION OF OT	B LEADING ED DC-10 PARTS HER THAN '. METALLURG	GEGICAL	

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File No. - 5095 9/15/84 DFW AIRPORT,TX A/C Reg. No. N124AA Time (Lc1) - 1305 CDT

Occurrence

----Probable Cause----

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation DESCENT

Finding(s)

- 1. FLIGHT CONTROL, SLAT ATTACHMENT IMPROPER
- 2. MAINTENANCE, INSTALLATION IMPROPER COMPANY MAINTENANCE PSNL
- 3. FLIGHT CONTROL, SLAT ATTACHMENT FAILURE, TOTAL
- 4. FLIGHT CONTROL, SLAT SEPARATION

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 1,2,3$

File No 5077 9/	/29/84 HOUSTON,TX	A/C R	eg. No. N914MA	т	ime (Lc1) -	0715 CDT	•
Basic Information Type Operating Certificat Name of Carrier Type of Operation Flight Conducted Under Incident Occurred During	-METROFLIGHT INC. -SCHEDULED,DOMESTIC -14 CFR 135		t Damage Crev Pass		Injur Serious O O	ries Minor O O	None 2 6
Aircraft Information Make/Model - DEHAVILL/ Landing Gear - TRICYCLE- Max Gross Wt - 12500 No. of Seats - 24	AND DHC-6-300 -FIXED	Eng Make/Model - P& Number Engines - 2 Engine Type - TU Rated Power -			Installed/Æ tall Warnir		
Environment/Operations Info Weather Data Wx Briefing - FSS Method - ACFT RA Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 360/010 Visibility - 7.0 Lowest Sky/Clouds - Lowest Ceiling Obstructions to Vision Precipitation Condition of Light	I ADIO O KTS SM A' 1900 FT SCATTERED - 5000 FT BROKEN - NONE - NONE	tinerary Last Departure Point HULL FIELD,TX Destination SAME AS ACC/INC TC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- VFR	ON AIR Airport D HOUSTO Runway Runway Runway Runway	ata N INTERNATI Ident Lth/Wid Surface Status	- 14R - 6048/ - CONCRETE - DRY	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s COMMERCIAL,ATP,CFI SE LAND,ME LAND	C M A	27 ial Flight Review urrent - UNK/NR onths Since - UNK/NR ircraft Type - UNK/NR	Medical Certific Fli Total - Make/Model-	ate - VALID ght Time (H 5600 2110 580	MEDICAL-No lours) Last 24 Last 30	D WAIVERS/	1
Instrument Rating(s)Narrative DURING A LANDING ON RWY 14R, TI SAME TIME THE DHC-6 WAS APPROA ACCORDING TO TOWER PERSONNEL, THAT THE BOEING CLOSED & POSSII 10 KTS WHICH WOULD HAVE DRIFTEL LEVERS WERE STIFF & THAT THE LI FLYING THE ACFT) SELECTED GROUN HE TOOK THE CONTROLS, BUT WAS GEAR STRUT FAIRINGS.	HE ACFT VEERED OFF TH CHING TO LAND, A BOEI THE BOEING LANDED ABO BLY PASSED THE DEHAVI D WAKE TURBULENCE TOW EFT PROP SOUNDED LIKE ND BETA. WHEN THE CAP	NG 727 WAS ALSO IN TH UT 1 MI AFTER THE DEH LLAND DURING THE LAND ARD RWY 14R. THE DEHA IT SURGED DURING THE TAIN REALIZED THAT TH	E TRAFFIC PATTERN AVILLAND LANDED. ING SEQUENCE. THE VILLAND CAPTAIN R LANDING JUST AFT E COPLT COULD NO	TO LAND ON HOWEVER, THE WIND WAS FEPORTED THATER THE COPLLONGER CONT	I RWY 14L. IERE WAS EV ROM 360 DE IT THE POWE IT (WHO WAS ROL THE AC	IDENCE G AT R FT,	

9/29/84 HOUSTON, TX File No. - 5077 A/C Reg. No. N914MA Time (Lc1) - 0715 CDT Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING - ROLL Finding(s) 1. UNDETERMINED THROTTLE/POWER LEVER - BINDING(MECHANICAL) 3. WEATHER CONDITION - TAILWIND 4. WEATHER CONDITION - CROSSWIND 5. DIRECTIONAL CONTROL - NOT MAINTAINED -GROUND LOOP/SWERVE - UNCONTROLLED -Occurrence #2 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 7. OBJECT - AIRPORT FACILITY ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1 Factor(s) relating to this incident is/are finding(s) 7

File No 5096 10/08/84 HC	OUSTON,TX A/C Reg	. No. N107T	Time	(Lc1) - 0	706 CDT	
Basic Information Type Operating Certificate-NONE (GEN	NERAL AVIATION) Aircraft)amage		Injurie	s	
,) - - - - - - - - -	NONE		Fatal Se		Minor	None
Type of Operation -BUSINESS	_	Crew	0	0	0	2
Flight Conducted Under -14 CFR 9		Pass	Ŏ	Ö	ō	4
Incident Occurred During -TAKEOFF	· · · · · · · · · · · · · · · · · · ·	Other	Ö	0	0,	38
Aircraft Information						
Make/Model - CESSNA CITATION 550		JT 15D-4	ELT Inst	alled/Act	ivated -	YES/NO
Landing Gear - TRICYCLE-RETRACTABLE	E Number Engines - 2		Stall	Warning	System -	· UNK/NE
Max Gross Wt - 11850	Engine Type - TURB	OFAN		-	-	
No. of Seats - 8	Rated Power - 25	OO LBS THRUST				
Environment/Operations Information	-					
Weather Data	Itinerary		Airport Prox	imity		
Wx Briefing FSS	Last Departure Point		ON AIRPORT	•		
Method - IN PERSON	HOUSTON, TX					
Completeness - FULL	Destination	1	irport Data			
Basic Weather - IMC	KANSAS CITY, MO	•	HOBBY			
Wind Dir/Speed- 290/004 KTS	KANSAS OTTI,MO		Runway Ide	ent - O	Λ	
Visibility - UNK/NR	ATC/Airspace		Runway Lth			IEO
Lowest Sky/Clouds - 100 FT	Type of Flight Plan -	TED	Runway Sur			130
	OBSCURED Type of Clearance -		Runway Sta		NK/NR	
			Kuriway Sta	itus - 0	INC/ INC	
Obstructions to Vision- FOG	Type Apch/Lndg -	NONE				
Precipitation - NONE						
Condition of Light - DAWN						
Personnel Information Pilot-In-Command	Age - UNK/NR M	edical Certificate	LINIZ /ND			
	Age - UNK/NR M Biennial Flight Review	edical certificate	Time (Heine			
·Contition(-)/Potium(-)		Fingn	: lime (Hours			. /
Certificate(s)/Rating(s)	Bienniai Flight Review		. /s.m			
ATP	Current - UNK/NR	Total - UNI	K/NR	Last 24 H		
	Current - UNK/NR Months Since - UNK/NR	Total - UNI Make/Model- UNI	(/NR (/NR	Last 30 D	ays- UN	
ATP	Current - UNK/NR Months Since - UNK/NR	Total - UNM Make/Model- UNM Instrument- UNM	(/NR	Last 30 D Last 90 D	ays- UN ays- UN	(/NR
ATP	Current - UNK/NR Months Since - UNK/NR	Total - UNI Make/Model- UNI	(/NR	Last 30 D	ays- UN ays- UN	(/NR
ATP	Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	Total - UNM Make/Model- UNM Instrument- UNM	(/NR	Last 30 D Last 90 D	ays- UN ays- UN	(/NR
ATP SE LAND,ME LAND Instrument Rating(s) - AIRPLANI	Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	Total - UNM Make/Model- UNM Instrument- UNM	(/NR	Last 30 D Last 90 D	ays- UN ays- UN	(/NR
ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLAND Narrative	Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	Total - ŪNk Make/Model- UNk Instrument- UNk Multi-Eng - UNk	(/NR (/NR	Last 30 D Last 90 D Rotorcraf	ays- UNF ays- UNF t - UNF	(/NR
ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLAND Narrative 322L INADVERTENTLY CROSSED THE ACTIVE R	Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR E	Total - ÜNk Make/Model- UNk Instrument- UNk Multi-Eng - UNk	(/NR (/NR 	Last 30 D Last 90 D Rotorcraf	ays- UNF ays- UNF t - UNF	(/NR
ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLAND Narrative	Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR E	Total - ÜNk Make/Model- UNk Instrument- UNk Multi-Eng - UNk	(/NR (/NR 	Last 30 D Last 90 D Rotorcraf	ays- UNF ays- UNF t - UNF	(/NR
ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLAND Narrative 322L INADVERTENTLY CROSSED THE ACTIVE R	Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR E	Total - ÜNK Make/Model- UNK Instrument- UNK Multi-Eng - UNK RBORNE ON TAKEOFF HE RWY AND MADE A	(/NR (/NR FROM THAT RW MAX PERFORMA	Last 30 D Last 90 D Rotorcraf	ays- UNI ays- UNI t - UNI	(/NR
ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLAND Narrative 322L INADVERTENTLY CROSSED THE ACTIVE RUSS OCCURRED AS THE CAPTAIN AND 1ST OFFICE	Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR E WY O4 AT THE TIME N107T BECAME AI CER OF N107T OBSERVED N3322L ON T ORIGINALLY CLEARED FOR TAKEOFF ON	Total - ÜNK Make/Model- UNK Instrument- UNK Multi-Eng - UNK RBORNE ON TAKEOFF HE RWY AND MADE A RWY O4 VIA TAXIW	(/NR (/NR 	Last 30 D Last 90 D Rotorcraf	ays- UNP ays- UNP t - UNP	(/NR
ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLAND Narrative 322L INADVERTENTLY CROSSED THE ACTIVE RI SS OCCURRED AS THE CAPTAIN AND 1ST OFFICE IMB OVER THE TOP OF N3322L N3322L WAS (Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR E WY O4 AT THE TIME N107T BECAME AI CER OF N107T OBSERVED N3322L ON T ORIGINALLY CLEARED FOR TAKEOFF ON	Total - ÜNK Make/Model- UNK Instrument- UNK Multi-Eng - UNK RBORNE ON TAKEOFF HE RWY AND MADE A RWY O4 VIA TAXIW	(/NR (/NR 	Last 30 D Last 90 D Rotorcraf	ays- UNP ays- UNP t - UNP	(/NR

File No. - 5096 10/08/84 HOUSTON,TX A/C Reg. No. N107T Time (Lc1) - 0706 CDT

Occurrence
Phase of Operation

NEAR COLLISION BETWEEN AIRCRAFT

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. WEATHER CONDITION - FOG

- 2. BECAME LOST/DISORIENTED INADVERTENT PILOT OF OTHER AIRCRAFT
- 3. INSTRUCTIONS, WRITTEN/VERBAL NOT FOLLOWED PILOT OF OTHER AIRCRAFT
- 4. REMEDIAL ACTION PERFORMED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2,3

Factor(s) relating to this incident is/are finding(s) 1

Basic Information Type Operating Certificate-AIR CARI		Aircraft Da	mage		Injur		
Name of Carrier -REPUBLIC Type of Operation -SCHEDUL	C AIRLINES	NONE Fire	Crew	Fata1 O	Serious O	Minor O	None 4
Flight Conducted Under -14 CFR		NONE	Pass	Ö	ő	Ö	34
Incident Occurred During -TAXI			Other	0.	0	0	6
Aircraft Information							
Make/Model - DOUGLAS DC9-32 Landing Gear - TRICYCLE-RETRACTAB		lode1 - UNK UN	K		Installed/A Stall Warnir		
Max Gross Wt - 109000	Engine Typ			•	itari wariir	ig System	OIAK/ IAI
No. of Seats - 85	Rated Powe						
Environment/Operations Information							
Weather Data Wx Briefing - FSS	Itinerary	uma Dadat		•	Proximity		
Wx Briefing - FSS Method - IN PERSON	Last Depart HOUSTON,T			ON AIR	PURI		
Completeness - FULL	Destination	^		Airport D	ata		
Basic Weather - IMC	MEMPHIS,T	N		HOBBY			
Wind Dir/Speed- 290/004 KTS	.== (• 04	
Visibility - UNK/NR Lowest Sky/Clouds - 100 FT	ATC/Airspace	ght Plan - IF	D		Lth/Wid - Surface -		150
	OBSCURED Type of Cle					UNK/NR	
Obstructions to Vision- FOG	Type Apch/L					ŕ	
Precipitation - NONE							
Condition of Light - DAWN							
Personnel Information Pilot-In-Command	Age - UNK/NR	Med	ical Certificat	e - UNK/N	IR		
Certificate(s)/Rating(s)	Biennial Flight R			t Time (F			
ATP	Current	- UNK/NR	Total - 1			Hrs - UN	
SE LAND, ME LAND	Months Since		Make/Model-			Days- UN	
	Aircraft Type	- UNK/NR	Instrument- UN Multi-Eng - UN		Last 90 Rotorcr	raft - UN	
Instrument Rating(s) - AIRPLA	NE						
Narrative 322L INADVERTENTLY CROSSED THE ACTIVE	DWV OA AT THE TIME NAOT	T RECAME ATDR	ODNE ON TAKEOEE	EDOM TH	T DWV A NE	: AD	
	ICER OF N107T OBSERVED					.AN	
SS UCCURRED AS THE CAPTAIN AND 151 UFF						١Т	
MB OVER THE TOP OF N3322L. N3322L WAS FITT CREW DID NOT MAKE A NECESSARY TU							

File No. - 5096 10/08/84 HOUSTON,TX A/C Reg. No. N3322L Time (Lc1) - 0706 CDT

Occurrence NEAR COLLISION BETWEEN AIRCRAFT Phase of Operation TAXI - TO TAKEOFF

Finding(s)

- 1. WEATHER CONDITION FOG
- 2. BECAME LOST/DISORIENTED INADVERTENT PILOT IN COMMAND
- 3. INSTRUCTIONS, WRITTEN/VERBAL NOT FOLLOWED PILOT IN COMMAND
- 4. REMEDIAL ACTION PERFORMED PILOT OF OTHER AIRCRAFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2,3

Factor(s) relating to this incident is/are finding(s) 1

File No 5009 5/26/84 SALT I	AKE CITY,UT	A/C Reg.	No. N8830E		Fime (Lc1) -	0146 MD	Т
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -EASTERN AIRL Type of Operation -SCHEDULED,DOI Flight Conducted Under -14 CFR 121 Incident Occurred During -LANDING	- FLAG/DOMESTIC A INES MESTIC,PASSENGER F	ifrcraft Da NONE ifre NONE	Crew Pass	Fatal O O	0 0		None 7 20
Aircraft Information Make/Model - BOEING 727-200 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 142000 No. of Seats - UNK/NR	Eng Make/Mode Number Engine Engine Type Rated Power	e1 - P&W JT es - 2 - TURBOJ - 16000	8D-15 ET LBS THRUST	ELT	Installed/A Stall Warnir		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 150/010 KTS Visibility - 30.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure DENVER,CO	Point INC Plan - IF ance - IF y - ST	R R	ON AII Airport SALT Runwa Runwa Runwa	Data LAKE CITY IN y Ident - y Lth/Wid - y Surface - y Status -	- 16R - 12000/ - ASPHALT - DRY	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE	Age - 46 Biennial Flight Rev Current - Months Since - Aircraft Type -	Med ew YES UNK/NR 727	ical Certifica	te - UNK/ nt Time (NK/NR NK/NR NK/NR	NR Hours) Last 24 Last 30 Last 90	Hrs - U Days- U Days- U raft - U	NK/NR NK/NR
FLT 428 LANDED ON RWY 16R WHICH WAS CLOSED FOR ANNOUNCED IN ATIS INFO OSCAR. THE FLT CREW REBUT INSTEAD LANDED ON RWY 16R. THE CAPTAIN RENORMALLY HAVE USED THE WEST RUNWAY, 16R INSTEAT THE TIME OF OUR LANDING." WHEN FLT 428 WAS INSPECTION. VASI AND APCH LIGHTS FOR 16R WERE	R CONSTRUCTION. THE (PORTED THEY HAD OBTAIN PORTED, "I LANDED ON AD OF 16L. RUNWAY 16F ON FINAL THE RWY LIC	CLOSURE INF INED OSCAR. RUNWAY 16R R WAS LIGHT GHTS FOR RW CH LIGHTS F	THE FLT WAS CO , THINKING LEF ED AND EVERYTH Y 16R WERE ON S OR 16L WERE ON	LEARED TO F CLOSED, ING APPEA STEP 3 BE	LAND ON RWY AIRLINERS RED NORMAL CAUSE OF A F	/ 16L	

File No. - 5009 5/26/84 SALT LAKE CITY,UT A/C Reg. No. N8830E Time (Lc1) - 0146 MDT

Occurrence

MISCELLANEOUS/OTHER Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WRONG RUNWAY NOT SELECTED PILOT IN COMMAND
- 2. INFORMATION NOT UNDERSTOOD PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1,2

Type Of Operating Certificate-ON-DEMAND AIR TAXI	File No 5092 11/11/84 DAK C	ITY,UT A/C Reg. No.	N5785V	Time (Lc1) - 0845	MST
Type of Deration -SEISMIC Fire Crew 0 0 0 0 1 Flight Conducted Under -14 CFR 193 NONE Pass 0 0 0 0 0 0 Incident Occurred During -CRUISE NONE Pass 0 0 0 0 0 0 4		3			
Flight Conducted Under					
Incident Occurred Ouring -CRUISE			J. J	•	•
Aircraft Information Make/Model - AEROSPATIALE SA3158 (LAMA) Landing Gear - SKID Max Gross Wt - 4300 No. of Seats - 5 Rated Power - 562 HP Environment/Operations Information * Weather Data Wa Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VNC Wind Dir/Speed-CALM Visibility - 40.0 Lowest Sky/Clouds - CLEAR Lowest Sciling - NONE Dostructions to Vision- NONE Precipitation - NONE Commercial Certificate(s)/Rating(s) Comm		NONE		-	-
Make/Model - AEROSPATIALE SA315B (LAMA) Landing Gear - SKID Max Gross Wt - 4300 Max Gross Wt - 4300 No. of Seats - 5 Rated Power - 562 HP Environment/Operations Information * Weather Data W. Briefing - NO RECORD OF BRIEFING Completeness - N/A Basic Weather - VMC Wishoflity - 40.0 Wind Dir/Speed CALM Visibility - 40.0 Clark Styl/Clouds - CLEAR Lowest Styl/Clouds - CLEAR Lowest Styl/Clouds - CLEAR Lowest Styl/Clouds - NONE Conditions to Vision - NONE Condition of Light - DAYLIGHT Personnel Information Prictincomment Condition of Light - DAYLIGHT Personnel Information Pilot-in-Command Commence (s)/Rating(s) CCMMERCIAL SE LAND SE LAND Instrument Rating(s) - NONE Instrument Rating(s) - NONE Norrative BOTA ACT PERFORMING EXTERNAL LOAD OPERATIONS. N5785V WAS IN LEVEL FLT TO THE NORTH. N9362 WAS IN a 60-70 KT SLIGHT CLIMB TO THE SOUTHEAST. NEITHER PLT, BOTH IN RT SEATS, SAW THE OTHER PAINTED WHITE EACH PLT BROADCASTED HIS POSITION & DESTINATION BEFORE LIFTING OFF, BUT NEITHER RECEIVED A RESPONSE. NEITHER MADE ANY FURTHER TRANSMISSIONS AFTER TAKEOFF.	incident Occurred During -CRUISE		Other O	0 0	4
Make/Model - AEROSPATIALE SA315B (LAMA) Landing Gear - SKID Max Gross Wt - 4300 Max Gross Wt - 4300 No. of Seats - 5 Rated Power - 562 HP Environment/Operations Information * Weather Data W. Briefing - NO RECORD OF BRIEFING Completeness - N/A Basic Weather - VMC Wishoflity - 40.0 Wind Dir/Speed CALM Visibility - 40.0 Clark Styl/Clouds - CLEAR Lowest Styl/Clouds - CLEAR Lowest Styl/Clouds - CLEAR Lowest Styl/Clouds - NONE Conditions to Vision - NONE Condition of Light - DAYLIGHT Personnel Information Prictincomment Condition of Light - DAYLIGHT Personnel Information Pilot-in-Command Commence (s)/Rating(s) CCMMERCIAL SE LAND SE LAND Instrument Rating(s) - NONE Instrument Rating(s) - NONE Norrative BOTA ACT PERFORMING EXTERNAL LOAD OPERATIONS. N5785V WAS IN LEVEL FLT TO THE NORTH. N9362 WAS IN a 60-70 KT SLIGHT CLIMB TO THE SOUTHEAST. NEITHER PLT, BOTH IN RT SEATS, SAW THE OTHER PAINTED WHITE EACH PLT BROADCASTED HIS POSITION & DESTINATION BEFORE LIFTING OFF, BUT NEITHER RECEIVED A RESPONSE. NEITHER MADE ANY FURTHER TRANSMISSIONS AFTER TAKEOFF.	Ainonaft Information				
Landing Gear - SKID Number Engines - 1 Max Gross Wt - 4300 No. of Seats - 5 Engine Type - TUBBOSHAFT Rated Power - 582 HP		044)	ADTOLICTE TETO EL	T 7	VEC (NO
Max Gross Wt - 4300	•		AKIUUSIE IIIB EL		
No. of Seats - 5 Rated Power - 562 HP Environment/Operations Information Was ther Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - WWC Wind Dir/Speed CALM Visibility - 40.0 SM LoCAL LoCAL Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Status - N/A Lowest Sky/Clouds - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 COMMERCIAL Certificate(s)/Rating(s) COMMERCIAL SE LAND Months Since - UNK/NR Instrument Rating(s) - NONE Instrument Rating(s) - NONE Instrument Rating(s) - NONE Instrument Rating(s) - NONE Precipitation - NONE Committed - VALID MEDICAL-NO WAIVERS/LIMIT Priot-In-Command Age - 32 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) COMMERCIAL Current - UNK/NR Total - 5100 Last 24 Hrs - UNK/NR Months Since - UNK/NR Make/Model - 500 Last 30 Days - UNK/NR HELICOPTER Aircraft Type - UNK/NR Make/Model - 500 Last 30 Days - UNK/NR Months Since - UNK/NR Make/Model - 500 Last 30 Days - Soo Instrument Rating(s) - NONE Narrative BOTH Actr Development - UNK - None Instrument Rating(s) - NONE Narrative Son None None None Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT Airport Data Airport Data N/A None Precipitation - N/A None Runway Status				Stall warning Syst	em - NU
Environment/Operations Information * Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 40.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Cailing - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Priot-In-Command Certificate(s)/Rating(s) SE LAND Months Since - UNK/NR					
Environment/Operations Information * Weather Data Wx Briefing					
* Weather Data Wx Briefing - NO RECORD OF BRIEFING Wethod - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALW Visibility - 40.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Celling - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL COMPRECIAL CUrrent - UNK/NR HELICOPTER Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP Airport Proximity OFF AIRPORT/STRIP OFF AI					
Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Wind Dir/Speed- CALM Visibility - 40.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Destructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) SE LAND Months Since - UNK/NR Biennial Flight Review Flight Time (Hours) CUMMERCIAL SE LAND Months Since - UNK/NR HELICOPTER Months Since - UNK/NR Aircraft Type - UNK/NR Instrument - O Last 30 Days- 500 Instrument Rating(s) - NONE Narrative BOTH ACFT PERFORMING EXTERNAL LOAD OPERATIONS. N5785V WAS IN LEVEL FLT TO THE NORTH. N9362 WAS IN A 60-70 KT SLIGHT CLIMB TO THE SOUTHEAST. NEITHER PLT, BOTH IN RT SEATS, SAW THE OTHER ACFT BEFORE CONTACT, 3 MAIN ROTOR BROADCAST PAINT OF HORDER AT 4 45 DEG ANGLE. SUN WAS RISING IN EAST, TERRAIN WAS SNOW COVERED AND BOTH ACFT WERE PAINTED WHITE. EACH PLT BROADCASTED HIS POSITION & DESTINAIS OF BESTINAISON BEFORE LIFTING OFF, BUT NEITHER RECEIVED A RESPONSE. NEITHER MADE ANY FURTHER TRANSMISSIONS AFTER TAKEOFF.	· · ·	T ÷ i nonany	Ainnan	+ Dnovimity	
Method - N/A Destination Airport Data Basic Weather - VMC LOCAL Wind Dir/Speed- CALM Wind Dir/Speed- CALM Visibility - 40.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - N/A Lowest Sky/Clouds - NONE Type of Clearance - NONE Runway Status - N/A Dostructions to Vision- NONE Type of Clearance - NONE Runway Status - N/A Dostructions to Vision- NONE Type Apch/Lndg - UNK/NR Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 5100 Last 24 Hrs - UNK/NR SE LAND Months Since - UNK/NR Make/Model - 500 Last 30 Days - UNK/NR HELICOPTER Months Since - UNK/NR Instrument - O Last 90 Days - 500 Instrument Rating(s) - NONE Narrative BOTH ACFT PERFORMING EXTERNAL LOAD OPERATIONS. N5785V WAS IN LEVEL FLT TO THE NORTH. N9362 WAS IN A 60-70 KT SLIGHT CLIMB TO THE SOUTHEAST. NEITHER PLT. BOTH IN RT SEATS, SAW THE OTHER ACFT BEFORE CONTACT. 3 MAIN ROTOR BLADES OF N5785V PASSED THROUGH UPPER LEFT SECTION OF COCKPIT ON N9362. INCIDENT OCCURRED WITH ACFT CONVERGING AT A 45 DEG ANGLE. SUN WAS RISING IN EAST, TERRAIN WAS SNOW COVERED AND BOTH ACFT WERE PAINTED WHITE. EACH PLT BROADCASTOR WHITE RECEIVED A RESPONSE. NEITHER MADE ANY FURTHER TRANSMISSIONS AFTER TAKEOFF.		-			
Completeness - N/A Basic Weather - VMC Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 40.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Lowest Ceiling - NONE Distructions to Vision- NONE Type of Clearance - NONE Runway Status - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Dostructions to Vision- NONE Type Apch/Lndg - UNK/NR Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medical Certificate - VALID MEDICAL-ND WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Filight Review Filight Time (Hours) Commercial Current - UNK/NR Total - 5100 Last 24 Hrs - UNK/NR SE LAND Months Since - UNK/NR Make/Model - 500 Last 30 Days- UNK/NR HELICOPTER Aircraft Type - UNK/NR Instrument - 0 Last 90 Days - 500 Instrument Rating(s) - NONE Narrative BOTH ACFT PERFORMING EXTERNAL LOAD OPERATIONS. N5785V WAS IN LEVEL FLT TO THE NORTH. N9362 WAS IN A 60-70 KT SLIGHT CLIMB TO THE SOUTHEAST. NEITHER PLT, BOTH IN RT SEATS, SAW THE OTHER ACFT BEFORE CONTACT. 3 MAIN ROTOR BLADES OF N5785V PASSED THROUGH UPPER LEFT SECTION OF COCKPIT ON N9362. INCIDENT OCCURRED WITH ACFT CONVERSING AT A 45 DEG ANGLE. SUN WAS RISING IN EAST, TERRAIN WAS SNOW COVERED AND BOTH ACFT WERE PAINTED WHITE. EACH PLT BROADCASTED HIS POSITION & DESTINATION BEFORE LIFTING OFF, BUT NEITHER RECEIVED A RESPONSE. NEITHER MADE ANY FURTHER TRANSMISSIONS AFTER TAKEOFF.	•		UFF	AIRPURI/SIRIP	
Basic Weather - VMC Wind Dir/Speed- CALM Wind Dir/Speed- CALM Visibility - 40.0 SM ATC/Airspace Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Dbstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL Current - UNK/NR Total - 5100 Last 24 Hrs - UNK/NR SE LAND Months Since - UNK/NR Make/Model - 500 Last 30 Days - UNK/NR HELICOPTER Aircraft Type - UNK/NR Instrument - 0 Last 90 Days - 500 Instrument Rating(s) - NONE Narrative BOTH ACFT PERFORMING EXTERNAL LOAD OPERATIONS. N5785V WAS IN LEVEL FLT TO THE NORTH. N9362 WAS IN A 60-70 KT SLIGHT CLIMB TO THE SOUTHEAST. NEITHER PLT, BOTH IN RT SEATS, SAW THE OTHER ACFT BEFORE CONTACT. 3 MAIN ROTOR BLADES OF N5785V PASSED THROUGH UPPER LEFT SECTION OF COCKPIT ON N9362. INCIDENT OCCURRED WITH ACFT CONVERSING ATA 45 DEG ANGLE. SUN WAS RISING IN EAST. TERRAIN WAS SNOW COURSED AND BOTH ACFT WERE PAINTED WHITE. EACH PLT BROADCASTED HIS POSITION & DESTINATION BEFORE LIFTING OFF, BUT NEITHER RECEIVED A RESPONSE. NEITHER MADE ANY FURTHER TRANSMISSIONS AFTER TAKEOFF.		·		5.1	
Wind Dir/Speed- CALM Visibility - 40.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Dobstructions to Vision- NONE Type Apch/Lndg - UNK/NR Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 5100 Last 24 Hrs - UNK/NR SE LAND Months Since - UNK/NR Make/Model - 500 Last 30 Days - UNK/NR HELICOPTER Aircraft Type - UNK/NR Instrument - O Last 90 Days - 500 Instrument Rating(s) - NONE Narrative BOTH ACFT PERFORMING EXTERNAL LOAD OPERATIONS. N5785V WAS IN LEVEL FLT TO THE NORTH. N9362 WAS IN A 60-70 KT SLIGHT CLIMB TO THE SOUTHEAST. NEITHER PLT, BOTH IN RT SEATS, SAW THE OTHER ACFT BEFORE CONTACT. 3 MAIN ROTOR BLADES OF N5785V PASSED THROUGH UPPER LEFT SECTION OF COCKPIT ON N9362. INCIDENT OCCURRED WITH ACFT CONVERGING AT A 45 DEG ANGLE. SUN WAS RISING IN EAST, TERRAIN WAS SNOW COVERED AND BOTH ACFT WERE PAINTED WHITE. EACH PLT BROADCASTED HIS POSITION & DESTINATION BEFORE LIFTING OFF, BUT NEITHER RECEIVED A RESPONSE. NEITHER MADE ANY FURTHER TRANSMISSIONS AFTER TAKEOFF.	·		Airport	Data	
Visibility - 40.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Dbstructions to Vision- NONE Type Apch/Lndg - UNK/NR Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 5100 Last 24 Hrs - UNK/NR SE LAND Months Since - UNK/NR Make/Model - 500 Last 30 Days - UNK/NR Aircraft Type - UNK/NR Instrument - 0 Last 90 Days - 500 Instrument Rating(s) - NONE Narrative BOTH ACFT PERFORMING EXTERNAL LOAD OPERATIONS. N5785V WAS IN LEVEL FLT TO THE NORTH. N9362 WAS IN A 60-70 KT SLIGHT CLIMB TO THE SOUTHEAST. NEITHER PLT, BOTH IN RT SEATS, SAW THE OTHER ACFT BEFORE CONTACT. 3 MAIN ROTOR BLADES OF N5785V PASSED THROUGH UPPER LEFT SECTION OF COCKPIT ON N9362. INCIDENT OCCURRED WITH ACFT CONVERGING AT A 45 DEG AND STEED HIS POSITION & DESTINATION BEFORE LIFTING OFF, BUT NEITHER RECEIVED A RESPONSE. NEITHER MADE ANY FURTHER TRANSMISSIONS AFTER TAKEOFF.		LOCAL	_		
Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Dostructions to Vision- NONE Type Apch/Lndg - UNK/NR Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 5100 Last 24 Hrs - UNK/NR SE LAND Months Since - UNK/NR Make/Model - 500 Last 30 Days - UNK/NR HELICOPTER Aircraft Type - UNK/NR Instrument - 0 Last 90 Days - 500 Instrument Rating(s) - NONE Narrative BOTH ACFT PERFORMING EXTERNAL LOAD OPERATIONS. N5785V WAS IN LEVEL FLT TO THE NORTH. N9362 WAS IN A 60-70 KT SLIGHT CLIMB TO THE SOUTHEAST. NEITHER PLT, BOTH IN RT SEATS, SAW THE OTHER ACFT BEFORE CONTACT. 3 MAIN ROTOR BLADES OF N5785V PASSED THROUGH UPPER LEFT SECTION OF COCKPIT ON N9362. INCIDENT OCCURRED WITH ACFT CONVERGING AT A 45 DEG ANGLE. SUN WAS RISINEN IN EAST, TERRAIN WAS SNOW COVERED AND BOTH ACFT WERE PAINTED WHITE. EACH PLT BROADCASTED HIS POSITION & DESTINATION BEFORE LIFTING OFF, BUT NEITHER RECEIVED A RESPONSE. NEITHER MADE ANY FURTHER TRANSMISSIONS AFTER TAKEOFF.					
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FURTHER TRANSMISSIONS AFTER TAKEOFF.					
PAGE-240	FURTHER TRANSMISSIONS AFTER TAKEOFF.	•			
PAGE-240					
		PAGE-240			

Occurrence

MIDAIR COLLISION

Phase of Operation CLIMB

Finding(s)

- 1. TERRAIN CONDITION SNOW COVERED
- 2. TERRAIN CONDITION MOUNTAINOUS/HILLY
- 3. LIGHT CONDITION DAYLIGHT
- 4. VISUAL LOOKOUT INADEQUATE PILOT IN COMMAND
- 5. VISUAL LOOKOUT INADEQUATE PILOT OF OTHER AIRCRAFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 4,5$

Factor(s) relating to this incident is/are finding(s) 1,2,3

Basic Information Type Operating Certificate-ON-DEMAN	D AID TAY!		Induntas	
Type operating certificate-un-Deman	D AIR TAXI Aircraft Da MINOR	nage Fatal	Injuries Serious Minor	None
Type of Operation -SEISMIC	Fire	Crew 0		1
Flight Conducted Under -14 CFR 1		Pass 0	0 1	2
Incident Occurred During -CLIMB	NONE	Other 0	ŏ ŏ	1
Aircraft Information				
	ALOUETTE Eng Make/Mode1 - TURBOM			
Landing Gear - SKID	Number Engines - 1		Stall Warning System	- NO
Max Gross Wt - 4960	Engine Type - RECIPR			
No. of Seats - 7	Rated Power - 562	HP 		
Environment/Operations Information				
Weather Data	Itinerary		Proximity	
Wx Briefing - NO RECORD OF BRIE		OFF A	IRPORT/STRIP	
Method - N/A	OAK CITY,UT		5 - 1	
Completeness - N/A Basic Weather - VMC	Destination	Airport	vata	
Wind Dir/Speed- CALM	LOCAL	D	Idamb - N/A	
Visibility - 40.0 SM	ATC/Airspace		y Ident - N/A y Lth/Wid - N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan - NO		y Surface - N/A	
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Finght Fian - No			
Obstructions to Vision- NONE	Type Apch/Lndg - UN		y Status - N/A	
Precipitation - NONE	Type Apch/ Lhag - UN	K/NK		
Condition of Light - DAYLIGHT				
Personnel Information Pilot-In-Command	Age - 40 Med	ical Certificate - VALI	D MEDICAL -NO WATVERS	TMTT
Certificate(s)/Rating(s)	Biennial Flight Review	Flight Time (LIMITI
COMMERCIAL	Current - YES	Total - 8098		42
SE LAND	Months Since	Make (Made) 4429	Last 24 nrs	42 4/ND
	Months Since - 3 Aircraft Type - UNK/NR	Make/Model- 1428 Instrument- UNK/NR Multi-Eng - UNK/NR	Last 30 Days- UN	2/ NK
	Africiant Type - UNK/NK	The trument onk / NK	Last 90 Days-	241
HELICOPTER	• •	Multi-Eng - UNK/NR	Rotorcraft - UN	K/NR

File No. - 5092

11/11/84

OAK CITY,UT

A/C Reg. No. N9362

Time (Lc1) - 0845 MST

Occurrence

MIDAIR COLLISION

Phase of Operation

CLIMB

Finding(s)

- 1. TERRAIN CONDITION SNOW COVERED
- 2. TERRAIN CONDITION MOUNTAINOUS/HILLY
- 3. LIGHT CONDITION DAYLIGHT
- 4. VISUAL LOOKOUT INADEQUATE PILOT IN COMMAND
- 5. VISUAL LOOKOUT INADEQUATE PILOT OF OTHER AIRCRAFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 4,5$

Factor(s) relating to this incident is/are finding(s) 1,2,3

-Basic Information Type Operating Certificate-AIR CARRIER	- ELAC/DOMESTIC	Aircraft Damage			Injuri	05	
Name of Carrier -US AIR	- FLAG/DUMESTIC	NONE	F:	atal S	injuri Serious	es Minor	None
Type of Operation -SCHEDULED, DOI	MESTIC, PASSENGER	Fire	Crew	0	0	0	4
Flight Conducted Under -14 CFR 121		NONE	Pass	0	0	0	37
Incident Occurred During -APPROACH							
-Aircraft Information							
Make/Model - BRITISH AEROSPACE CO. 1		lode1 - ROLLS ROYCE	506-14D		talled/Ac		
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng			Stal	1 Warning	System	- YES
Max Gross Wt - 80500 No. of Seats - UNK/NR		er - TURBOFAN er - 10410 LBS	TUDUCT				
NO. OF Seats - DINK/INK	Rated Powe	er - 10410 LBS					
-Environment/Operations Information							
Weather Data	Itinerary	Balat		rport Pro			
W× Briefing - COMPANY Method - TELETYPE	Last Depart PHILADELF		'	JFF AIRPU	RT/STRIP		
Completeness - WEATHER NOT PERTINENT	Destination	MIA, PA	Air	oort Data	1		
Basic Weather - VMC	SAME AS A	CC/INC			VELYN BYR	D INT'L	
Wind Dir/Speed- 240/007 KTS		, 1.10		Runway Ic		N/A	
Visibility - 12.0 SM	ATC/Airspace			Runway Lt	:h/Wid -	N/A	
Lowest Sky/Clouds - CLEAR		ght Plan - IFR			ırface -		
Lowest Ceiling - NONE		earance - IFR		Runway St	atus -	DRY	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/l	ndg - VISUAL					
Precipitation - NONE Condition of Light - DUSK							
Condition of Light 5 bosk							
Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 52 Biennial Flight F		Certificate - Flight T)		
ATP	Current		1 - 2230		Last 24	Hrs - IIN	K/NP
ME LAND	Months Since		/Mode1- 950		Last 30		
,,,= = = = = = = = = = = = = = = = = =	Aircraft Type		rument- UNK/N		Last 90		
	21		i-Eng - UNK/N	R	Rotorcra	ft - UN	K/NR
Instrument Rating(s) - AIRPLANE							
Narrative	THE THE DURING TU	TIMAL ADDDOLOU T	OTU DITC CT:T	ED TUAT *	THE ENG		
498, EXPERIENCED A PARTIAL POWER LOSS ON O DL DOWN OCCURRED MOMENTS AFTER SELECTING TO							

File No 50	33 1/26/84 	RICHMOND, VA	A/C Reg. No. N1113J	Time (Lcl) - 1730 EST	
Occurrence Phase of Operation	LOSS OF POWER(PA	RTIAL) - MECH FAILU	RE/MALF		
Finding(s) 1. FUEL SYSTEM - U	NDETERMINED				
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) $\mathbf{1}$

File No 5068 3/28/84 HERND	ON, VA A/O	C Reg. No. N66KA	т	ime (Lc1) -	2030 E	ST
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Airci MING	raft Damage OR	Fatal	Injur Serious	ies Minor	None
Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Incident Occurred During -APPROACH	Fire IN F	-	rew 0 ass 0	0	0	2
Aircraft Information Make/Model - BEECH C90 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 10500 No. of Seats - 8	Eng Make/Model - Number Engines - Engine Type - Rated Power -			Installed/A tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- 050/013 KTS Visibility - 3.000 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 800 FT BROK Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - NIGHT(DARK)	Itinerary Last Departure Po- ROANOKE,VA Destination SAME AS ACC/INC ATC/Airspace Type of Flight Pla EN Type of Clearance Type Apch/Lndg	an - IFR	OFF AI Airport D Runway Runway Runway		- N/A - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND HELICOPTER	Age - 40 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - UH-	Total Make/Model	light Time (H - 94004 - 4900 - 1700	ours) Last 24 Last 30 Last 90	1 Hrs - Days-	5 UNK/NR 120
Instrument Rating(s) - AIRPLANE						
THE ACFT ENTERED AN UNCOMMANDED DIVE AT ABOUT REVEALED THAT DURING THE DESCENT, IN ORDER TO THEREAFTER THE ELEVATOR TRIM SYSTEM MALFUNCTI A BRIEF FLARE-UP OF SMOKE & SPARKS ERUPTED UN PLT DELAYED AN EMERGENCY BUT DID NOT RELAY IN FOUND THE ELEVATOR TRIM TAB CABLE BROKEN AT THE CABIN ENTRANCE DOOR. FRAYED IN AN IRREGUL IN THE ELECTRICAL POWER DIODES LOCATED BENEAT OPERATED AT TOO HIGH TORQUE & THE CABLES WERE	ACCOMODATE OTHER AIR TRACONED & JAMMED THE TRIM INDER THE RT INSTRUMENT PAIFORMATION CONCERNING THE HE TRIM SERVO, LOCATED UNDER ANNE INDER THE THE CONTROL PEDESTAL.	AFFIC, THE PLT EXC N THE FULL NOSE DO' NEL ON THE LT SIDE CONTROL PROBLEM. NDER THE AFT CABIN CH AREA, THE LOOSE INSPECTION REVEALE	EEDED VNE SPE WN TRIM POSIT OF THE CONTR POST INCIDENT FLOOR JUST F CABLES BECAM O THE FRICTIO	EDS. SHORTLION. WHEN OL COLUMN TEXAMINATION ORWARD OF THE ENTANGLED	-Y , THE DN	

File No. - 5068 3/28/84 HERNDON, VA A/C Reg. No. N66KA Time (Lc1) - 2030 EST

Occurrence
Phase of Operation

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

tion DESCENT

Finding(s)

1. AIRSPEED - EXCEEDED - PILOT IN COMMAND

- 2. FLT CONTROL SYST, ELEVATOR TAB CONTROL (TRIM) FAILURE, TOTAL
- 3. FLT CONTROL SYST, ELEVATOR TAB CONTROL(TRIM) JAMMED
- 4. ELECTRICAL SYSTEM SHORTED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

File No 5004 1/05/8	34 SEATTLE, WA	A/C Reg.	No. N766AS	Т	ime (Lc1)	- 1400 PST	
Basic Information							
Type Operating Certificate-AI	R CARRIER - FLAG/DOME	STIC Aircraft D MINOR	amage	Fatal	Inju Serious	ries Minor	None
Type of Operation -PC	SITIONING	Fire	Cre		0	0	6
Flight Conducted Under -14		NONE	Pas	-	ŏ	ŏ	Ö
Incident Occurred During -LA	NDING						
Aircraft Information							
Make/Model - BOEING B-727-	- 3	Make/Model - P&W u	JT8D-7		Installed/		
Landing Gear - TRICYCLE-RETR		per Engines - 3		\$	itall Warni	ng System	- YES
Max Gross Wt - 170000		ine Type - TURBO					
No. of Seats - UNK/NR	Rat 	ed Power - 1400	OO LBS THRUST				
Environment/Operations Informat							
Weather Data	Itiner			•	Proximity		
Wx Briefing - NWS		Departure Point		ON AIF	PORT		
Method - ACFT RADIO		RTLAND, OR		A			
Completeness - FULL		nation		Airport [
Basic Weather - IMC Wind Dir/Speed- 010/003 KTS		ME AS ACC/INC			.E-TACOMA / Ident	460	
Visibility125 SM					/ Ident / Lth/Wid	- 16R	150
		rspace of Flight Plan - 1	rED		Surface		
	200 FT OVERCAST Type					- WET	-
Obstructions to Vision- FO		Apch/Lndg - 1		Kuliway	Jiaius	W L 1	
Precipitation - RAI	J.	Apeny Endg	ELS COMPLLIE				
Condition of Light - DAY							
-Personnel Information Pilot-In-Command	A 00 -	51 Me	edical Certific	cate - VALII	MEDICAL-W	ATVEDS/LTA	AT T
Certificate(s)/Rating(s)		light Review		ight Time (F		AIVENS/ EI	
ATP	Curren		Total -			!4 Hrs -	0
SE LAND, ME LAND, SE SEA, ME	=	Since - 2	Make/Mode1-	UNK/NR	Last 3	O Davs-	ŏ
or riving the riving or original		ft Type - 727	Instrument-	UNK/NR	Last 9	O Davs-	Ö
		, ,	Multi-Eng -			raft - UN	NK/NR
Instrument Rating(s) - A	AIRPLANE						
Nonnetive							
-Narrative	TO DWY 16D WHILE ON	AN TIE ADDDOACH A	MALVETE OF THE	EDD DEADOU	CHUMED **		
ACFT STRUCK THE APPROACH LIGHTS REASED DESCENT RATE FOLLOWING V			NALISIS UF THE	FUK KEAUUU	SHOWED AN	•	

File No. - 5004 1/05/84 SEATTLE,WA A/C Reg. No. N766AS Time (Lc1) - 1400 PST

Occurrence #1 UNDERSHOOT
Phase of Operation APPROACH - FAF/OUTER MARKER TO THRESHOLD (IFR)

Finding(s)

1. WEATHER CONDITION - LOW CEILING
2. WEATHER CONDITION - FOG
3. WEATHER CONDITION - RAIN
4. PROPER GLIDEPATH - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH OBJECT
Phase of Operation APPROACH - VFR PATTERN - DOWNWIND

Finding(s)
5. OBJECT - APPROACH LIGHT/NAVAID

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 4

Factor(s) relating to this incident is/are finding(s) 1,2,3,5

Basic Information Type Operating Certificate-AIR CARRIER	- FLAG/DOMESTIC A	ircraft Damage			Injuries	;	
Name of Carrier -ALASKA AIRLI Type of Operation -SCHEDULED,DO Flight Conducted Under -14 CFR 121 Incident Occurred During -LANDING	NES INC MESTIC,PASSENGER F	WINOR ire NONE	Fa Crew Pass	atal Se O O	erious M O O	finor O O	None 8 73
Aircraft Information Make/Model - BOEING 727-223 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 142000 No. of Seats - 134	Eng Make/Mode Number Engine Engine Type Rated Power		ust		alled/Acti Warning S		
Environment/Operations Information Weather Data Wx Briefing - NWS Method - IN PERSON Completeness - FULL Basic Weather - IMC Wind Dir/Speed - O2O/OO6 KTS Visibility250 SM Lowest Sky/Clouds - 400 FT PART Lowest Ceiling - 400 FT OBSO Obstructions to Vision- FOG Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure ANCHORAGE,AK Destination SEATTLE,WA ATC/Airspace OBS Type of Flight URED Type Apch/Lndg	Plan - IFR nce - IFR	A1r; ; ; ; ;		NT'L ARPT ent - 34 n/Wid - 11 face - AS	1900/ 1	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLANENarrative E CAPT STATED THAT UPON VISUAL CONTACT WITH	Months Since - Aircraft Type -	YES Total 3 Make/Mo 727 Instrum Multi-E	Flight T - 14300 del- UNK/NI ent- UNK/NI ng - UNK/NI	ime (Hours D R R R R	a) Last 24 Hr Last 30 Da Last 90 Da Rotorcraft	s - UNK ays- ays-	(/NR 46 95

File No. - 5000 1/07/84 SEATTLE, WA A/C Reg. No. N876AA Time (Lc1) - 0053 PST

Occurrence DRAGGED WING, ROTOR, POD, OR FLOAT

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WEATHER CONDITION FOG
- 2. WEATHER CONDITION CROSSWIND
- 3. PROPER ALIGNMENT NOT MAINTAINED -
- 4. REMEDIAL ACTION INITIATED PILOT IN COMMAND
- 5. CLEARANCE MISJUDGED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 5

Factor(s) relating to this incident is/are finding(s) 1,2

Type Operating Certification	ate-NONE (GE	NERAL AVIATION)	Aircra	ıft Damage			Inju	ries	
			MINOF	2		Fatal	Serious	Minor	None
Type of Operation		IONAL	Fire		Crew	0	0	0	3
Flight Conducted Under Incident Occurred During			NONE		Pass	0	0	0	0
Aircraft Information									
Make/Model - CESSNA	CE500	Fna	Make/Model - F	2W .IT15D-1		FIT	Installed/	Activated	- NO -N/
Landing Gear - TRICYCL			per Engines -				tall Warni		
Max Gross Wt - 11500	e nemaorabe		ine Type - 1			J	carr warm	g cyclom	
No. of Seats - 8		Rat		2200 LBS T					
-Environment/Operations In	 formation								
Weather Data		Itiner					Proximity		
Wx Briefing - UNK/N			Departure Poin	nt ,		ON AIR	PORT		
Method - UNK/NI		SE	ATTLE BFI,WA						
Completeness - UNK/N	R		nation			Airport D			
Basic Weather - VMC		YA	KIMA,WA			YAKIMA			
Wind Dir/Speed- 250/0								- 27	
Visibility - 10.0	O SM	ATC/Ai					Lth/Wid		150
Lowest Sky/Clouds -			of Flight Plan			-	Surface		
		OVERCAST Type				Runway	Status	- DRY	
Obstructions to Vision		Туре	Apch/Lndg						
	- NONE			TOUCH AN	D GO				
Condition of Light									
-Personnel Information									
Pilot-In-Command			37				WEDÍCYT-M	AIVERS/LI	#I T
Certificate(s)/Rating(s)	Biennial F	light Review			t Time (H		4 11	•
ATP, CFI		Curren	t - YES	Total			Last 2		
SE LAND, ME LAND		Months	Since - 6 ft Type - UNK/I	Make/	Model-	/3	Last 3 Last 9	O Days- U	NK/NR
GLIDER		Aircra	ft Type - UNK/I		-Eng -			o bays- raft - Ui	
Instrument Rating(s) - AIRPLAN	IE			J				
-Narrative									
ACFT MADE A HARD LANDING	WHILE ON A T	RAINING FLT. AC	CORDING TO THE	INSTRUCTOR	PLT, "DUR	ING THE L	ANDING FLA	RE,	
WERE DESCENDING VERY GRADU	ALLY AS THE	AIRSPEED CONTIN	UED TO DISSIPA	ΓΕ." LATE IN	THE FLAR	E THE ANG	LE OF ATTA	CK	
ICATOR WAS APPROACHING THE									
OST IMMEDIATELY THE MAIN G									
	DING FROM OF	THE WINCE D. TA	TI CEDUCTURE W	AD CLEAD & D	TME TOE A	RT 1/R IN	THICK TH	F	
E OF THE INCIDENT, THE LEAP WAS 24 DEG F.	DING EDGE OF	THE WINGS & TA	IL SIKUCIUKE N	AD CLEAR & R	THE TOE A	2, 0 1	111120111	_	

File No. - 5001 1/20/84 YAKIMA,WA A/C Reg. No. N25 Time (Lc1) - 0850 PST

Occurrence

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WING ICE
- 2. AIRSPEED INADEQUATE PILOT IN COMMAND
- 3. PROPER DESCENT RATE NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 2,3

Factor(s) relating to this incident is/are finding(s) 1

	6/04/84	SPOKANE, WA	A/C Reg	. No. N123CZ	-	Time (Lc1) -	1048 PDT	
Basic Information Type Operating Certific			Aircraft [Damage		Injur		
Name of Carrier	-CASCADE	AIRWAYS	MINOR	•	Fata1	Serious	Minor	None
Type of Operation	-SCHEDULI				ew O	0	0	2
Flight Conducted Under		135	IN FLIGH	T Pa	ss O	0	0	3
Incident Occurred Durin	g -TAKEOFF							
Aircraft Information								
Make/Model - BEECH 1			odel - P&W F	PT6-65		Installed/A		
Landing Gear - TRICYCL	.E-RETRACTABI	-			9	Stall Warnin	g System	- YES
Max Gross Wt - 16600			e - TURBO					
No. of Seats - 21		Rated Powe	r - 110	00 HP				
Environment/Operations Ir	formation					· 	-	
Weather Data		Itinerary			Airport	Proximity		
Wx Briefing - COMPA	NY	Last Depart	ure Point			RSTRIP		
Method - UNK/N		SPOKANE, C	A					
Completeness - UNK/N	IR	Destination			Airport [
Basic Weather - IMC		PORTLAND,	OR			NE INT'L		
Wind Dir/Speed- 190/0							03	
Visibility - 3.	000 SM	ATC/Airspace			Runway	y Lth/Wid -	9000/	150
Lowest Sky/Clouds -	SCATTERE	Type of Flig	ght Plan - 1	IFR	Runway	y Surface -	ASPHALT	
Lowest Ceiling	- 900 FT	OVERCAST Type of Cle	arance - :	IFR	Runway	y Status -	WET	
Obstructions to Visio	n- FOG	Type Apch/L	ndg - '	TRAFFIC PATTER	N			
	- RAIN							
Condition of Light	- DAYLIGHT							
Personnel Information								
Pilot-In-Command		Age - 44		edical Certifi			IVERS/LIM	İΤ
Certificate(s)/Rating(s)	Biennial Flight R	eview		ight Time (
COMMERCIAL, ATP		Current Months Since	- YES	Total -			Hrs -	
SE LAND, ME LAND		Months Since	- 2	Make/Mode1-	150	Last 30	Days- UN	IK/NR
		Aircraft Type	- 1900C	Instrument-	UNK/NR	Last 90 Rotorcr	Days- UN	IK/NR
				Multi-Eng -	UNK/NR	Rotorcr	aft - UN	IK/NR

File No. - 5037 6/04/84 SPOKANE, WA A/C Reg. No. N123CZ Time (Lc1) - 1048 PDT

Occurrence FIRE/EXPLOSION
Phase of Operation TAKEOFF - INITIAL CLIMB

1. ELECTRICAL SYSTEM - SHORTED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)$ 1

	LE,WA	A/C Reg.	No. N613US	,	ime (Lc1) -	1438 PD	Г
-Basic Information Type Operating Certificate-AIR CARRIER	- FLAG/DOMESTIC	Aircraft Da	nage		Injur		
Name of Carrier -NORTHWEST AI Type of Operation -SCHEDULED, IN	RLINES, INC.	MINOR	•	Fatal	Serious	Minor	None
Type of Operation -SCHEDULED, IN	NTL, PASSENGER				0		14
Flight Conducted Under -14 CFR 121 Incident Occurred During -CLIMB		NONE	Pass		0	_	158
-Aircraft Information							
Make/Model - BOEING 747-200B		del - P&W JT		ELT	Installed/A	ctivated	- YES/NO
Landing Gear - TRICYCLE-RETRACTABLE	Number Engi	nes - 4 - TURBOF		S	tall Warnir	g System	- YES
Max Gross Wt - 800000	Engine Type	- TURBOF	AN				
No. of Seats - 394	Rated Power	- 50000	LBS THRUST				
-Environment/Operations Information							
Weather Data Wx Briefing - COMPANY Method - IN PERSON	Itinerary				Proximity		
Wx Briefing - COMPANY	Last Departu			OFF AI	RPORT/STRIF	•	
Method - IN PERSON	SEATTLE, WA						
Completeness - WEATHER NUT PERITNENT	Destination			Airport D	ata		
Basic Weather - VMC	SEOUL, KOR	EA		_			
Wind Dir/Speed- 290/005 KTS	.=./					· N/A	
Visibility - 50.0 SM	ATC/Airspace		_	Runway	Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Fing	nt Plan - IF	R R	Runway	Surface -		
Lowest Ceiling - NONE					Status -	· N/A	
Obstructions to Vision- NONE	Type Apcn/Lr	ag - PR	ECAUTIONARY LAN	NDING			
Precipitation - NONE Condition of Light - DAYLIGHT							
Pilot-In-Command	Age - 54	Med	ical Certificat	te - VALID	MEDICAL-WA	IVERS/LI	MIT
Certificate(s)/Rating(s)	Biennial Flight Re	view	Fligh	nt Time (F	lours)		
COMMERCIAL, ATP	Current	- YES	Total - 2	20939	Last 24	1 Hrs - U	NK/NR
SE LAND, ME LAND	Months Since	- 4	Make/Model-	2739	Last 30	Days- U	NK/NR
	Current Months Since Aircraft Type	- 747	Instrument- UM	NK/NR	Last 90	Days- U	NK/NR
			Multi-Eng - U	NK/NR	Rotorc	raft - U	NK/NR
Instrument Rating(s) - AIRPLANE							
-Narrative							
RING CLIMBOUT, PASSING THRU 4000 FT MSL, TH RING AN EXPLOSIVE SOUND FOLLOWED BY A DROW E ACFT RETURNED TO SEATTLE FOR AN UNEVENTFO CATED IN A RURAL AREA APRX 11 MILES SOUTH O	P IN FUEL FLOW WITH UL LANDING. THE ENGI	N1 SPEED DEC NE EXHAUST T	REASING TO 30% AIL CONE AND N	RPM ON TH JMEROUS TU	IE #2 ENGINE IRBINE BLADE		
RUCTURE HAD WEAKENED BY SULFIDATION DUE TO COWED CONTACT WITH THE TURBINE BLADES, RESI	EXHAUST GAGES ESCAP	ING THRU AN	INSPECTION POR	T. FAILURE		श	
	2405						

File No. - 5072 9/29/84 SEATTLE, WA A/C Reg. No. N613US Time (Lc1) - 1438 PDT

Occurrence
Phase of Operation

LOSS OF POWER(PARTIAL) - MECH FAILURE/MALF

Phase of Operation CLIMB - TO CRUISE

Finding(s)

1. TURBINE ASSEMBLY, GUIDE VANE SUPPORT - FAILURE, TOTAL

- 2. TURBINE ASSEMBLY, TURBINE BLADE SEPARATION
- 3. REMEDIAL ACTION PERFORMED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 1,2$

File No 5058 10/18/84 SEAT	TLE,WA A/C Re	A/C Reg. No. N6507U Time (Lc1) - 1445 PDT			Г	
Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION) Aircraft	Damage		Inju	ries	
	NONE		Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Incident Occurred During -CRUISE		Other	0	0	0	49
Aircraft Information						
Make/Model - MOONEY M2OC	Eng Make/Model - LYC	OMING 0-360		Installed/		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1		S	itall Warnir	ng System	- YES
Max Gross Wt - 2575	Engine Type - REC	IPROCATING-CARBURE	TOR			
No. of Seats - 4	Rated Power -	180 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFIN	G Last Departure Point		OFF AI	RPORT/STRIE	>	
Method - N/A	SPANAWAY, WA					
Completeness - N/A	Destination	I	Airport D	ata		
Basic Weather - VMC	ARLINGTON, WA					
Wind Dir/Speed- 060/003 KTS			Runway	· Ident ·	- N/A	
Visibility - 15.0 SM	ATC/Airspace				- N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE	Runway	Surface	- N/A	
Lowest Ceiling - NONE	Type of Clearance	NONE			- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg -	NONE	•			
Precipitation - NONE	,, ,					
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 54	Medical Certificate	e - VALID	MEDICAL-NO	WAIVERS,	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	F1 igh:	t Time (H	lours)		
PRIVATE	Current - UNK/NR	Total -	1800	Last 2	4 Hrs - Ul	NK/NR
SE LAND	Months Since - UNK/NR	Make/Model - UN	K/NR	Last 30	Days- U	NK/NR
	Aircraft Type - UNK/NR	Instrument- UN	K/NR	Last 9	0 Days- U	VK/NR
		Multi-Eng - UN	K/NR	Rotorc	raft - Ul	NK/NR
Instrument Rating(s) ~ AIRPLANE						
Narrative						
RING ARRIVAL, A BOEING VC-137B-BN, USAF #5						
URSE APCH. AT 1442:49, TRACON ADVISED AF-2						
ACON ADVISED AF-2 THE TRAFFIC HAD MOVED TO						
1443:29, AF-2 ADVISED THAT THE FLT WAS CH						
ATED IN THE RIGHT, SAW THE TRAFFIC, A MOON	EY M2OC, N6507U, ON A COLLIST	ON COURSE. HE TOOK	CONTROL	& INITIATE	DEVASIVE	
TION. THE PLT OF N6507U WAS CRUISING AT 2,						
OM HIS RIGHT REAR AREA. THE MOONEY'S #1 RA					PLT WAS	
T IN RADIO CONTACT WITH ATC. THE LAST DIGI						
ANSMITTED. THE TRANSPONDER HAD NO MODE "C"	ALT REPORTING CAPABILITY. AL	L OF THE BACKCOURS!	E APCH WA	S OUTSIDE	THE TCA.	

File No. - 5058 10/18/84 SEATTLE, WA

A/C Reg. No. N6507U Time (Lc1) - 1445 PDT

Occurrence NEAR COLLISION BETWEEN AIRCRAFT

Phase of Operation CRUISE

Finding(s)

- 1. COMM/NAV EQUIPMENT, TRANSMITTER INOPERATIVE
- 2. COMM/NAV EQUIPMENT, RECEIVER INOPERATIVE
- 3. COMMUNICATIONS NOT POSSIBLE PILOT IN COMMAND
- 4. VISUAL LOOKOUT DELAYED PILOT OF OTHER AIRCRAFT
- 5. REMEDIAL ACTION PERFORMED PILOT OF OTHER AIRCRAFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 4

Factor(s) relating to this incident is/are finding(s) 1,2,3

File No 5058 10/18/84 SEA	TLE, WA A/C Reg.	No. 86970	Time (Lc1) - 1445 PDT
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -MILITARY/AF Flight Conducted Under -14 CFR 91 Incident Occurred During -APPROACH	NONE	9	Injuries tal Serious Minor None 0 0 0 16 0 0 0 33 0 0 1
Aircraft Information Make/Model - BOEING VC-137B-BN Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 258000 No. of Seats - UNK/NR	Eng Make/Model - P&W T Number Engines - 4 Engine Type - TURBC Rated Power - UNK/N	FAN	ELT Installed/Activated - UNK/NR Stall Warning System - YES
Environment/Operations Information Weather Data Wx Briefing - MILITARY Method - UNK/NR Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 060/003 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SPOKANE,WA Destination SEATTLE,WA ATC/Airspace Type of Flight Plan - I Type of Clearance - I Type Apch/Lndg - I	O Airp B R R R FR R	port Proximity FF AIRPORT/STRIP ort Data OEING FIELD unway Ident - 31L unway Lth/Wid - 10000/ 200 unway Surface - ASPHALT unway Status - DRY
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) MILITARY SE LAND, ME LAND Instrument Rating(s) - AIRPLANE	Age - 33 Me Biennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR		Last 30 Days- UNK/NR Last 90 Days- UNK/NR
DURING ARRIVAL, A BOEING VC-137B-BN, USAF #COURSE APCH. AT 1442:49, TRAFFIC HAD MOVED TO AT 1443:29, AF-2 ADVISED THAT THE FLT WAS COMMENTED IN THE RIGHT, SAW THE TRAFFIC, A MODIACTION. THE PLT OF N6507U WAS CRUISING AT 2 FROM HIS RIGHT REAR AREA. THE MOONEY'S #1 ROT IN RADIO CONTACT WITH ATC. THE LAST DIG TRANSMITTED. THE TRANSPONDER HAD NO MODE "C	OF TRAFFIC AT ITS 10 O'CLOCK FOR ITS 11 O-CLOCK POSITION AT 1-14ANGING ITS FREQ TO BOEING TOWER BEY MACC, NG507U, ON A COLLISION 500 FT OUTSIDE THE SEATTLE TCA ADIO WAS INOP & ITS #2 RADIO ANTITY WHEEL ON HIS TRANSPONDER WAS	POSITION AT 2 MI, ALT 1/2 MI. AF-2 ACKNOWLE R. SHORTLY THEREAFTER N COURSE. HE TOOK CON & DID NOT SEE AF-2, FENNA HAD BEEN VANDAL STUCK ON "5" & CODE	UNKN. AT 1443:11, DGED BOTH TRANSMISSIONS. THE ACFT CMDR OF AF-2, UTROL & INITIATED EVASIVE WHICH HAD CONVERGED UTZED, THUS THE PLT WAS 1205 WAS BEING

File No. - 5058 10/18/84 SEATTLE, WA A/C Reg. No. 86970 Time (Lc1) - 1445 PDT

Occurrence NEAR COLLISION BETWEEN AIRCRAFT
Phase of Operation APPROACH - IAF TO FAF/OUTER MARKER (IFR)

Finding(s)

- 1. COMMUNICATIONS NOT POSSIBLE PILOT OF OTHER AIRCRAFT
- 2. TRAFFIC ADVISORY ISSUED ATC PERSONNEL(DEP/APCH)
- 3. VISUAL LOOKOUT INADEQUATE COPILOT
- 4. VISUAL LOOKOUT DELAYED PILOT IN COMMAND
- 5. REMEDIAL ACTION PERFORMED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 3,4

Factor(s) relating to this incident is/are finding(s) 1

File No 5064 11/29/84	PULLMAN, WA	A/C Reg.	No. N1014T	Т	ime (Lc1) -	1905 PST	
-Basic Information Type Operating Certificate-COMMUT		Aircraft Da	mage		Injur		
Name of Carrier -CASCAD	E AIRWAYS, INC.	MINOR	_	Fatal	Serious		None
Type of Operation -SCHEDU		Fire	Cr		0	0	2 13
Flight Conducted Under -14 CFR Incident Occurred During -TAKEOF		NONE	Pa	ss O	U	O	13
	, 						
-Aircraft Information							
Make/Model - FAIRCHILD-SWEARIN		odel - AIRESE			Installed/A		
Landing Gear - TRICYCLE-RETRACTA				S	tall Warnin	g System	- YES
Max Gross Wt - 13500		- TURBOP					
No. of Seats - 19	Rated Power	840	HP 				
-Environment/Operations Information-							
Weather Data	Itinerary.				Proximity		
Wx Briefing - NWS	Last Departi			ON AIR	PORT		
Method - IN PERSON	LEWISTON,	ID					
Completeness - FULL	Destination			Airport D			
Basic Weather - IMC	SAME AS A	CC/INC			N-MOSCOW		
Wind Dir/Speed- 150/011 KTS						23	
Visibility - 1.000 SM	ATC/Airspace	L. D	_		Lth/Wid -		100
Lowest Sky/Clouds - PART OB					Surface -	SNOW - W	
Lowest Ceiling - 300 F Obstructions to Vision- FOG	T OBSCURED Type of Clear Type Apch/Li			Runway	Status -	SNOM - M	E I
Precipitation - SNOW	Type Apcri/ Li	nag - No	INE				
Condition of Light - NIGHT(D	APK)						
-Personnel Information							
Pilot-In-Command	Age - 34		ical Certifi			WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight R			ight Time (F			
ATP	Current	- YES	Total -			Hrs - UN	
ME LAND	Months Since		Make/Model-			Days- UN	
	Aircraft Type	- UNK/NR	Instrument-		Last 90		
			Multi-Eng -	UNK/NR	Rotorcr	aft - UN	K/NK
Instrument Rating(s) - AIRPL	ANE						
-Narrative							
ACFT LANDING GEAR COLLAPSED AFTER T							
THE RIGHT OF CENTERLINE ON A FAIRLY	CONSTANT ARCH UNTIL CONT.	ACTING A SNOW	BERM AT A T	AXIWAY INTE	RSECTION. AN	ı	
	WAS BEING CONDUCTED WIT	H A DADTTALLV	ORSCHIDED WI	NDSHIFID & (ONLY THE FAR	FND	
ESTIGATION REVEALED THAT THE TAKEOFF THE RWY WAS VISIBLE THRU THE FALLING		II A FARITALLI	ODSCORED WI	1100.11220 0 1			

File No. - 5064 11/29/84 A/C Reg. No. N1014T PULLMAN, WA Time (Lc1) - 1905 PST

Occurrence #1

ON GROUND COLLISION WITH TERRAIN

Phase of Operation TAKEOFF

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- IMPROPER DECISION, VISUAL/AURAL PERCEPTION PILOT IN COMMAND
- 3. LIGHT CONDITION DARK NIGHT
- 4. TERRAIN CONDITION SNOW COVERED
- 5. WEATHER CONDITION SNOW
- 6. WEATHER CONDITION FOG
- 7. WEATHER CONDITION CROSSWIND
- 8. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND
- 9. TERRAIN CONDITION SNOWBANK

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

Factor(s) relating to this incident is/are finding(s) 2,3,4,5,6,7,9

File No 5082 4/16/84 MI	LWAUKEE,WI	A/C Reg.	No. N163MA	Т	ime (Lc1) -	1757 CS	Т
Basic Information Type Operating Certificate-COMMUTER		Aircraft Da	amage		Injur		
Name of Carrier -MIDSTATE		MINOR	_	Fatal	Serious	Minor	None
Type of Operation -SCHEDULED		Fire	Crew	-	0	0	2
Flight Conducted Under -14 CFR 13 Incident Occurred During -LANDING	5	NONE	Pass	. 0	0	0	8
Aircraft Information							
Make/Model - SWEARINGEN SA226TC	Eng Make/M	odel - AIRES	EARCH TPE 331		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE				S	tall Warnin	g System	- YES
Max Gross Wt - 10062	Engine Typ						
No. of Seats - 22	Rated Powe	r - 84	O HP				
Environment/Operations Information							
Weather Data	Itinerary			•	Proximity		
Wx Briefing - COMPANY	Last Depart			ON AIR	PORT		
Method - TELETYPE	INDIANAPO	LIS, IN					
Completeness - WEATHER NOT PERTIN				Airport D			
Basic Weather - VMC	MILWAUKEE	, WI			L MITCHELL	LINIZ /ND	
Wind Dir/Speed- 360/025 KTS Visibility - 8.0 SM	ATC/Airspace				Ident - Lth/Wid -	UNK/NR	200
Lowest Sky/Clouds - UNK/NR		ght Plan - I	ED		Surface -		
Lowest Sky/Crouds - ONK/NR Lowest Ceiling - 2300 FT C		arance - I				DRY	L
Obstructions to Vision- NONE	Type Apch/L		LS-COMPLETE	Kuriway	Status	DICT	
Precipitation - RAIN	Type Aperly E	nag 1	L5 00M LL1L				
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age ~ 35	Me	dical Certifica	te - VALID	MEDICAL-WA	IVERS/LI	MIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight R	eview	Flig	ght Time (H	ours)		
ATP	Current	- UNK/NR	Total -	7243	Last 24		5
ME LAND	Months Since	- UNK/NR	Make/Mode1-	4269		Days- U	NK/NR
	Aircraft Type	- UNK/NR	Instrument-		Last 90	Days-	208
			Multi-Eng -	5140			
Instrument Rating(s) - AIRPLANE							
Narrative							
A GEAR UP LANDING WAS PERFORMED AFTER THE	CDEW WAS LINABLE TO EY	TEND THE DOT	MATH GEAD THOI	I NODMAI &	EMEDG DDOCE	DUDES	
AN EXAM OF THE ACFT DISCLOSED THE RGT MAIN						DONES.	
ITS BUSHING. THE BUSHING & BOLT WERE DRY 8						ABLE	
OF SUPPLYING ENOUGH PRESSURE TO OVERCOME 1							
BY MAINTENANCE PERSONNEL BECAUSE OF ITS LO			· · · · · · · · · · · · · · · · · · ·				

File No. - 5082 4/16/84 MILWAUKEE, WI A/C Reg. No. N163MA Time (Lc1) - 1757 CST Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation DESCENT Finding(s) DOOR, LANDING GEAR - BINDING (MECHANICAL) 2. MAINTENANCE, LUBRICATION - INADEQUATE - COMPANY MAINTENANCE PSNL 3. LANDING GEAR, MAIN GEAR - MOVEMENT RESTRICTED Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. WHEELS UP LANDING - PERFORMED - PILOT IN COMMAND ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this incident

is/are finding(s) 1,2,3

LAG/DOMESTIC Aircraf ES, INC. NONE TIC,PAX/CARGO Fire NONE	= :	Fatal rew O ass O	Injur Serious O O		None 5 103
Engine Type - TU	RBOJET	9	Installed/Ad		
MADISON, WI Destination ROCKFORD, IL ATC/Airspace Type of Flight Plan Type of Clearance	- IFR - IFR - PRECAUTIONARY	ON AIR Airport [MADISO Runway Runway Runway Runway Runway	RPORT Data DN y Ident - y Lth/Wid - y Surface - y Status -	9005/ ASPHALT	150
ennial Flight Review Current - UNK/NR Months Since - UNK/NR	Medical Certif F Total Make/Model Instrument	icate - VALII light Time (F - UNK/NR - UNK/NR - UNK/NR	D MEDICAL-NO Hours) Last 24 Last 30 Last 90	Hrs - UN Days- UN Days- UN	NK/NR NK/NR NK/NR
	Engine Type - TUR Rated Power - 1 Itinerary Last Departure Point MADISON, WI Destination ROCKFORD, IL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg Itinerary Last Departure Point MADISON,WI Destination ROCKFORD,IL ATC/Airspace Type of Flight Plan - IFR Type of Clearance - IFR Type Apch/Lndg - PRECAUTIONARY The - UNK/NR Medical Certife ennial Flight Review Current - UNK/NR Total Months Since - UNK/NR Make/Model Aircraft Type - UNK/NR Instrument	Engine Type - TURBOJET Rated Power - 14500 LBS THRUST Itinerary	Engine Type - TURBOJET Rated Power - 14500 LBS THRUST Itinerary	Engine Type - TURBOJET Rated Power - 14500 LBS THRUST Itinerary	

A/C Reg. No. N7351F Time (Lc1) - 1450 CDT File No. - 5103 8/29/84 MADISON, WI

Occurrence LOSS OF POWER(TOTAL) - MECH FAILURE/MALFUNCTION

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. TURBINE ASSEMBLY, TURBINE BLADE - FAILURE, TOTAL

- 2. TURBINE ASSEMBLY, TURBINE BLADE SEPARATION
- 3. PRECAUTIONARY LANDING PERFORMED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1

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3/30/84
      File No. - 5016
                                      PARKERSBURG.WV
                                                                 A/C Reg. No. N2827U
                                                                                          Time (Lc1) - 1402 EST
----Basic Information----
      Type Operating Certificate-ON-DEMAND AIR TAXI
                                                               Aircraft Damage
                                                                                                       Injuries
     Name of Carrier
                              -CARROLL'S AIR CHARTER SER
                                                                                                             Minor
                                                               NONE
                                                                                          Fata1
                                                                                                   Serious
                                                                                                                       None
     Type of Operation
                               -NON SCHED, DOMESTIC, PASSENGER
                                                               Fire
                                                                                   Crew
                                                                                             1
                                                                                                       0
                                                                                                                0
                                                                                                                         0
     Flight Conducted Under
                              -14 CFR 135
                                                                NONE
                                                                                   Pass
                                                                                                       0
                                                                                                                0
                                                                                                                         3
     Incident Occurred During -TAXI
                                                                                   Other
----Aircraft Information----
     Make/Mode1
                  - PIPER PA-34-200T
                                                   Eng Make/Model - CONTINENTAL LTSIO-360-EB ELT Installed/Activated - YES/NO
     Landing Gear - TRICYCLE-RETRACTABLE
                                                   Number Engines - 2
                                                                                                Stall Warning System - YES
                                                   Engine Type - RECIP-FUEL INJECTED
     Max Gross Wt - 4570
     No. of Seats -
                                                   Rated Power
                                                                      200 HP
  --Environment/Operations Information----
   Weather Data
                                                                                         Airport Proximity
                                                Itinerary
     Wx Briefing
                     - FSS
                                                  Last Departure Point
                                                                                           ON AIRPORT
       Method
                     - TELEPHONE
                                                    CHARLESTON, WV
       Completeness - FULL
                                                 Destination
                                                                                        Airport Data
     Basic Weather - VMC
                                                    NORTH BAY
                                                                                           GILL ROBB WILSON FIELD
       Wind Dir/Speed- 280/012 KTS
                                                                                           Runway Ident - UNK/NR
       Visibility - 20.0 SM
                                                ATC/Airspace
                                                                                           Runway Lth/Wid - UNK/NR
       Lowest Sky/Clouds -
                                2500 FT SCATTERED Type of Flight Plan - IFR
                                                                                           Runway Surface - UNK/NR
       Lowest Ceiling

    7000 FT BROKEN

                                                  Type of Clearance - UNK/NR
                                                                                           Runway Status - UNK/NR
       Obstructions to Vision- NONE
                                                  Type Apch/Lndg
                                                                      - STRAIGHT-IN
       Precipitation
                       - NONE
       Condition of Light - DAYLIGHT
  --Personnel Information----
    Pilot-In-Command
                                                                       Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT
                                            Age -
                                                      66
      Certificate(s)/Rating(s)
                                            Biennial Flight Review
                                                                                   Flight Time (Hours)
         COMMERCIAL
                                                Current
                                                              - UNK/NR
                                                                                        3400
                                                                                                     Last 24 Hrs -
                                                                          Total
                                                                                                     Last 30 Days- UNK/NR
         SE LAND, ME LAND
                                                Months Since - UNK/NR
                                                                          Make/Mode1-
                                                                                        1200
                                                Aircraft Type - UNK/NR
                                                                          Instrument-
                                                                                         300
                                                                                                    Last 90 Days-
                                                                                                     Rotorcraft - UNK/NR
                                                                           Multi-Eng -
                                                                                        1200
         Instrument Rating(s) - AIRPLANE
----Narrative----
AFTER AN UNSCHEDULED LANDING DUE TO THE CONDITION OF A PATIENT ABOARD THE ACFT, THE ACFT TURNED OFF A TAXIWAY INTO
THE GRASS AND STOPPED. RESCUE PERSONNEL FOUND THE PLT INCAPACITATED FROM A HEART ATTACK AND COLLAPSED OVER THE CONTROLS
AND THE NURSE ADMINISTERING CPR TO THE PATIENT. BOTH THE PLT AND PASSG EXPIRED.
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File No. - 5016 3/30/84 PARKERSBURG,WV A/C Reg. No. N2827U Time (Lci) - 1402 EST

Occurrence MISCELLANEOUS/OTHER
Phase of Operation TAXI - FROM LANDING

Finding(s)
1. AIRCRAFT HANDLING - NOT POSSIBLE 2. INCAPACITATION(HEART ATTACK) - PILOT IN COMMAND
-----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident $is/are\ finding(s)\ 2$

Type of Operation -BUSINESS Fire Crew 0 0 0 0 Flight Conducted Under -14 CFR 91 NONE Pass 0 0 0 0 Incident Occurred During -CRUISE NONE Pass 0 0 0 0 O O O O O O O O O O O O O O O	Time (Lc1) - 1000 MDT			
Type of Operation — BUSINESS Fire Crew O O O O Flight Conducted Under — 14 CFR 91 NONE Pass O O O O O O O O O O O O O O O O O O	None			
-Aircraft Information Make/Model - MOONEY M2OF	1			
Make/Model - MODNEY M2OF				
Landing Gear - TRICYCLE-RETRACTABLE Number Engines - 1 Stall Warning System - Yi Max Gross Wt - 2740 Engine Type - RECIP-FUEL INJECTED No. of Seats - 4 Rated Power - 180 HP	VEC /N			
Max Gross Wt - 2740 No. of Seats - 4 Rated Power - 180 HP Environment/Operations Information Weather Data Wx Briefing - FSS Last Departure Point Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 060/005 KTS Visibility - 60.0 SM Lowest Sky/Clouds - 12000 FT SCATTERED Destination Obstructions to Vision- Obstructions to Vision- Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE Engine Type - RECIP-FUEL INJECTED Rated Power - 180 HP Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP Airport Data Airport Data Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP Airport Data Airport Proximity OFF AIRPORT/STRIP OFF AI				
No. of Seats - 4 Rated Power - 180 HP Environment/Operations Information Weather Data Itinerary Wx Briefing - FSS Last Departure Point Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 060/005 KTS Visibility - 60.0 SM Lowest Sky/Clouds - 12000 FT SCATTERED Type of Flight Plan - VFR Completenes to Vision- NONE Obstructions to Vision- NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE Rated Power - 180 HP Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/STRIP Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP Airport Proximity OFF AIRPORT/STRIP OFF AIRPO	113			
Environment/Operations Information Weather Data				
Wx Briefing - FSS				
Method - TELEPHONE FORT COLLINS,CO Completeness - WEATHER NOT PERTINENT Destination Airport Data Basic Weather - VMC POCATELLO,ID Wind Dir/Speed- 060/005 KTS Visibility - 60.0 SM ATC/Airspace Runway Ident - N/A Lowest Sky/Clouds - 12000 FT SCATTERED Type of Flight Plan - VFR Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Completeness - WEATHER NOT PERTINENT Destination Airport Data Basic Weather - VMC POCATELLO,ID Wind Dir/Speed- 060/005 KTS Runway Ident - N/A Visibility - 60.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - 12000 FT SCATTERED Type of Flight Plan - VFR Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Basic Weather - VMC POCATELLO,ID Wind Dir/Speed- 060/005 KTS Runway Ident - N/A Visibility - 60.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - 12000 FT SCATTERED Type of Flight Plan - VFR Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Wind Dir/Speed- 060/005 KTS Visibility - 60.0 SM ATC/Airspace Runway Ident - N/A Lowest Sky/Clouds - 12000 FT SCATTERED Type of Flight Plan - VFR Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Lowest Sky/Clouds - 12000 FT SCATTERED Type of Flight Plan - VFR Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Lowest Ceiling - NONE Type of Clearance - VFR Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Obstructions to Vision- NONE Type Apch/Lndg - FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIM Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N				
PRIVATE Current - YES Total - 7842 Last 24 Hrs - UNK/N SE LAND Months Since - 1 Make/Model- 5842 Last 30 Days- 4 Aircraft Type - M2OF Instrument- 3 Last 90 Days- 4	WII			
SE LAND Months Since - 1 Make/Model - 5842 Last 30 Days - 4 Aircraft Type - M2OF Instrument - 3 Last 90 Days - 4	'ND			
Aircraft Type - M2OF Instrument- 3 Last 90 Days- 4	41			
	41			
Instrument Rating(s) - NONE				
Narrative				
HILE IN LEVEL CRUISE FLT AT 10500 FT, THE PLT HEARD A HIGH-PITCHED WHINE THAT LASTED FOR ABOUT 5 SECONDS. THE NGINE THEN SEIZED AND THE PLT MADE A FORCED LANDING IN MOUNTAINOUS FOOTHILLS. DURING THE LANDING ROLL, THE LANDING GEAR DILLAPSED. EXAMINATION OF THE DISASSEMBLED ENGINE REVEALED EVIDENCE OF HIGH HEAT DISTRESS AND A FRACTURED CRANKSHAFT. ETAILED EXAMINATION OF THE CRANKSHAFT REVEALED EVIDENCE OF A LACK OF LUBRICATION AND FATIGUE. MAINTENANCE RECORDS EVEALED THAT THE ACFT WAS INVOLVED IN A GEAR COLLAPSE INCIDENT IN 1977 THAT RESULTED IN A PROP STRIKE AND SUDDEN ENGINE TOPPAGE. THE ENGINE WAS NOT DISASSEMBLED AND INSPECTED AT THAT TIME AS SUGGESTED BY AVCO LYCOMING SERVICE LETTER				
D. L163B.				

File No. - 5120 9/05/84 SARATOGA.WY A/C Reg. No. N9121V Time (Lc1) - 1000 MDT Occurrence #1 LOSS OF POWER(TOTAL) - MECH FAILURE/MALFUNCTION Phase of Operation CRUISE - NORMAL Finding(s) 1. UNDETERMINED 2. MAINTENANCE, SERVICE BULLETINS - NOT FOLLOWED -3. FLUID, OIL - STARVATION 4. ENGINE ASSEMBLY, CRANKSHAFT - OVERTEMPERATURE 5. ENGINE ASSEMBLY, CRANKSHAFT - FATIGUE Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 GEAR COLLAPSED Phase of Operation LANDING - ROLL Finding(s) 6. AIRPORT FACILITIES - ROUGH/UNEVEN 7. TERRAIN CONDITION - MOUNTAINOUS/HILLY ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this incident is/are finding(s) 1.5

Factor(s) relating to this incident is/are finding(s) 3,4,6,7

NTSB-AAB-86-13

brief Format U.S. Civil and Foreign Aviation Issue Number 17 of 1984 Accidents



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