VILLES

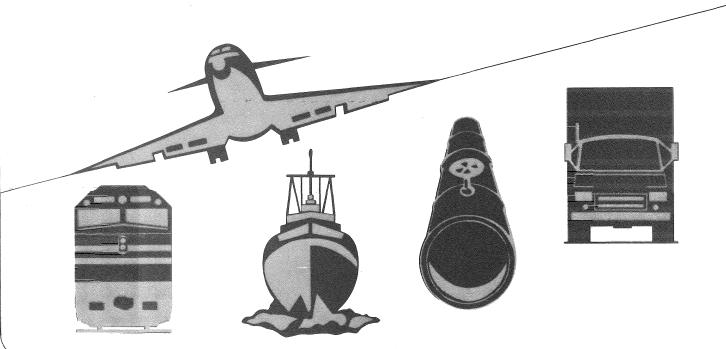
PB90-916901 NTSB/AAB-90/01

NATIONAL TRANSPORTATION SAFETY BOARD



AIRCRAFT ACCIDENT REPORTS

BRIEF FORMAT
U.S. CIVIL AND FOREIGN AVIATION
ISSUE NUMBER 1 OF 1989 ACCIDENTS





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15. Supplementary 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 1989. Approximately 200 General Aviation and Air Carrier accidents contained in this publication represent a random selection. This publication is issued irregularly, approximately fifteen times each year. The Brief Format represents the facts, conditions, circumstances and probable cause(s) for each accident.

File Numbers: 1 through 9
10 through 52
54 through 98
100 through 200

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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 approximately fifteen (15) 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.

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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.

<u>Airframe/Component/System Failure/Malfunction</u>

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 1

CALENDAR YEAR 1989

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1	5134T	010289	CANTWELL, AK	CHAMPION	7GCBC -	NONE	2
2	5074R	011289	BELL MOUNTAIN, AK	HUGHES	500-D	NONE	10
	73290	010389	RUSSIAN MISSION, AK	CESSNA	207A	NONE	4
4	67667	011089	KETCHIKAN, AK	DEHAVILLAND	DHC-2	NONE	8
5	6420E	011089	JUNEAU, AK	CESSNA	185F	NONE	6
6	901ZZ	011589	ASHLAND, VA	CESSNA	172N	NONE	352
7	6414K	011689	BIG LAKE, AK	CESSNA	150	NONE	16
8	3799R	010889	CHADRON, NE	CESSNA	172	MINOR	268
9	43527	011589	PORT LIONS, AK	PIPER	PA-32-300	NONE	14
11	4355Z	020889	BOULDER, CO	PIPER	PA-18-150	NONE	122
12	7049	020689	ILIAMNA, AK	PIPER	PA-18	NONE	24
13	4280Z	012189	GIRDWOOD, AK	PIPER	PA-18	NONE	18
14	1243A	022289	SULATNA RIVER, AK	PIPER	PA-18	NONE	32
15	53120	021989	CHUGIAK, AK	CESSNA	152	NONE	30
16	78627	022389	IGIUGIG, AK	PIPER	PA-11	NONE	34
17	89038	020689	GRAND FORKS, ND	CESSNA	152	NONE	262
18	9459D	020689	MAYVILLE, ND	CESSNA	172RG	NONE	264
19	52095	013089	ELK CITY, ID	CESSNA	180J	NONE	198
20	49104	012589	PUYALLUP, WA	CESSNA	152	NONE	362
21	3254Y	013089	N. BONNEVILLE, WA	CESSNA	182	NONE	364
22	95286	021589	BEAVER MARSH, OR	PIPER	PA28-140	NONE	316
23	8726K	011589	SOUTH ST. PAUL, MN	STINSON	108-1	NONE	234
24	70122	030989	ALEXANDER LAKE, AK	CESSNA	185E	NONE	44
25 ,	4433N	031689	FAIRBANKS, AK	AERONCA	15AC	NONE	46
26	4257T	030989	KASIGLUK, AK	PIPER	PA-32	NONE	42

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File	Aircraft	+		Aircr	aft	Injury	
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27	35038	021589	SKWENTNA, AK	PIPER	J-5	NONE	28
28	6675H	020289	RICHARDS, TX	PIPER	J-3C-65	MINOR	332
29	732FN	011689	SEKIU, WA	CESSNA	206	MINOR	356
30	7343E	011489	CARSON CITY, NV	CESSNA	210	NONE	292
31	9024C	020589	WRANGELL, AK	CESSNA	180	NONE	22
32	97764	022589	ALBANY, OR	STINSON	108-1	NONE	318
33	22997	011489	CLARION, IA	CESSNA	150	NONE	180
34	9824X	030789	SHELL LAKE, AK	CESSNA	185	NONE	40
35	4737P	012789	DURANGO, CO	CESSNA	P210N	NONE	120
36	8774B	011989	WILLIAMSBURG, OH	CESSNA	172	MINOR	308
37	14970	012289	CAMBRIDGE, OH	CESSNA	150	NONE	310
38	89867	010989	AUDUBON, IA	CESSNA	140	NONE	178
39	4843G	012989	AINSWORTH, NE	CESSNA	172	NONE	270
40	61064	021189	WAYLAND, MO	CESSNA	150	NONE	246
41	9755	021089	DAWSON, GA	GRUMMAN	G-164A	NONE	174
42	4717D	022589	SPARTA, IL	CESSNA	182A	NONE	206
43	48688	012989	MINDEN, NV	AERONCA	0-58B	FATAL	294
44	3576W	031289	SEABECK, WA	PIPER	PA-32	NONE	368
45	9104R	011989	ARLINGTON, WA	CESSNA	180A	NONE	358
46	8792H	032589	ROSALIA, WA	GRUMMAN/SCHW	G-164A	NONE	372
47	945FE	010589	ASPEN, CO	CESSNA	208B	SERIOUS	114
48	11SE	021189	WALKER, LA	PITTS	S2B	SERIOUS	222
49	66385	010189	AUSTIN, TX	CESSNA	150	NONE	328
50	5999M	030389	SAN ANTONIO, TX	CESSNA	421B	NONE	338
51	9023D	031489	HENRYETTA, OK	PIPER	PA-22-160	NONE	312

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54	47431	012789	GOODLAND, KS	PIPER	PA-28-181	NONE	218
55	25909	022389	KANSAS CITY, MO	CESSNA	152	NONE	248
56	9044L	030589	PINE CREEK, WI	AERONCA	7KCAB	NONE	384
57	3016A	040289	FREEDOM, WI	CESSNA	170B	NONE	390
58	8359L	022589	FORT WASHINGTON, MD	CESSNA	172I	SERIOUS	226
59	2582F	012289	PORT TOWNSEND, WA	CHAMPION	7ECA	NONE	360
60	73771	020989	NOME, AK	CESSNA	207	SERIOUS	26
61	9685B	032589	SKWENTNA, AK	CESSNA	180-A	NONE	48
62	9850X	041189	TRINITY LAKE, AK	CESSNA	185	NONE	52
63	4713U	022489	HONOLULU, HI	BOEING	747-122	FATAL	176
64	5119C	030389	DES MOINES, IA	CESSNA	310	NONE	192
65	8782L	011689	BOGALUSA, LA	PIPER	PA-25-235	MINOR	220
66	24658	011789	GREENFIELD, IA	BEECH	C-23	NONE	182
67	611CZ	022589	HUDSON, IA	COMPOSITE AI	COZY	NONE	184
68	4314R	022589	FT. MADISON, IA	CESSNA	182RG	NONE	188
69	6418D	022889	GRAND RAPIDS, MN	CESSNA	172	NONE	238
70	3627D	030189	HARRISBURG, AR	GRUMMAN	G-164B	NONE	60
71	5329B	030189	CROOKSTON, MN	CESSNA	152	NONE	240
72	6610Q	030289	GRIFFITHVILLE, AR	GRUMMAN	G-164B	NONE	62
73	25884	040989	IRWINDALE, CA	CESSNA	152	NONE	110
75	69383	021989	CORONA, CA	CESSNA	402B	FATAL	98
76	757KR	010789	STRATFORD, CT	CESSNA	152	NONE	130
77	41692	031689	LAKEWOOD, NJ	BELLANCA	7GCBC	NONE	278
78	2361K	011389	ALBANY, NY	PIPER	PA-38-112	NONE	300

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80	7652A	042489	FAIRBANKS, AK	CESSNA	180	NONE	58
81	7085	040389	KOTZEBUE, AK	PIPER	PA-18	MINOR	50
82	11250	011589	KETCHIKAN, AK	DEHAVILLAND	DHC-3	FATAL	12
83	7407T	030389	BASTROP, TX	CESSNA	172	NONE	340
84	9992Z	030389	ANCHORAGE, AK	CESSNA	U-206G	NONE	36
85	1292F	030689	PUNTILLA LAKE, AK	CESSNA	A-185-F	MINOR	38
86	1749U	012389	KALSKAG, AK	CESSNA	207	NONE	20
87	6479L	041789	KENAI, AK	CESSNA	152	NONE	54
88	6894H	021889	QUINCY, IL	CESSNA	172M	NONE	204
89	. 1672T	010989	PLEASANTON, CA	CESSNA	414	FATAL	82
90	16733	040589	PARK CITY, UT	BELL	206B-III	NONE	350
91	80795	031089	MONROE CITY, MO	CESSNA	150	NONE	250
92	527Y	041889	KINDRED, ND	GRUMMAN	G-164	NONE	266
93	98934	030389	CEDAR RAPIDS, IA	CESSNA	310	NONE	190
94	6602Q	031089	WYNNE, AR	GRUMMAN	G-164A	NONE	64
95	69806	030289	NORFOLK, NE	CESSNA	310Q	NONE	272
96	5371D	030589	CRESCO, IA	CESSNA	172	NONE	194
97	4639W	012989	RENO, NV	GULFSTREAM C	112TCA	NONE	296
98	24508	050489	LACEY, WA	PIPER	PA-38-112	NONE	380
100	5620X	020889	COTTONWOOD, ID	AERO COMMAND	S2R	NONE	200
101	1790E	032289	CATOOSA, OK	AERONCA	7AC	MINOR	314
102	4836Q	- 032489	LAKE ARTHUR, LA	CESSNA	A185F	NONE	224
103	54US	021789	SPOKANE, WA	MITSUBISHI	MU-2B-35J	NONE	366
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106	4340S	041789	GRANGEVILLE, ID	AIR TRACTOR	AT-301	MINOR	202
107	5315D	030589	SUPERIOR, WI	CESSNA	172N	NONE	386
108	7551Z	031889	ANACORTES, WA	CESSNA	TU206	NONE	370
109	504JT	040689	INDEPENDENCE, OR	THIESSEN	RV-4	NONE	320
110	2918W	020189	STRATHMORE, CA	BELL	47G-3B2	SERIOUS	94
111	26PL	040289	HANFORD, CA	LOWE	QUICKIE Q-	MINOR	108
112	6713Q	031889	WESTLEY, CA	GRUMMAN	G-164B	SERIOUS	106
113	91363	022689	EL PASO, TX	ICA BRASOR	IS-28B2	SERIOUS	334
114	277 M B	030889	LEGGETT, CA	STEARNS	BD-4	FATAL	104
115	9039E	010589	CALEXICO, CA	MAULE	M-5-210C	NONE	80
116	9675Z	022289	AGUILA, AZ	WARWICK	THORP T-18	SERIOUS	78
117	51K	020489	TRACY, CA	WAR REPLICAS	P-51	FAŢAL	96
118	3331R	011489	VALPARAISO, IN	PIPER	PA-28-180	NONE	214
119	3045M	031289	WEST CHICAGO, IL	PIPER	PA-34-200T	NONE	210
120	9504T	040289	ALLEGAN, MI	PIPER	PA-38-112	NONE	230
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124	590GC	010689	GREENWOOD, MS	CESSNA	210L	NONE	252
125	2439B	011289	TERRA CEIA, FL	PIPER	PA-38-112	NONE	138
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127	6866Q	041989	ARLINGTON, WA	BEECH	A55	NONE	374
128	6064R	050489	LYNDEN, WA	CESSNA	172	NONE	378
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131	66688	032289	CORUNNA, MI	CESSNA	150M	FATAL	228
132	9439B	012189	LARIMORE, ND	CESSNA	172RG	NONE	260
133	6 Y	010989	WILMINGTON, OH	SWEARINGEN	SX-300	FATAL	306
134	36970	020489	CLEARWATER, FL	ВЕЕСН	A23-24	SERIOUS	156
135	997	020389	KEY WEST, FL	WACO	YMF	MINOR	154
136	926SA	021089	FERNANDINA BCH, FL	PIPER	PA-38-112	NONE	162
137	339RH	031789	CHESAPEAKE, VA	HALSTEAD	SANDPIPER	NONE	354
138	95975	021389	CROOKSTON, MN	CESSNA	152	NONE	236
139	7662X	022589	UNIONVILLE, IA	CESSNA	172B	NONE	186
140	44ME .	012289	TUCSON, AZ	LEHMAN/JERRE	VANS RV-4	FATAL	76
141	4763T	011789	FORT MYERS, FL	PIPER	PA-32-300	MINOR	142
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143	312BH	010589	QUEMADO, NM	BUMGARTNER/H	STEEN SKYB	NONE	284
144	96319	010489	LONGMONT, CO	CESSNA	172	NONE	112
145	4440L	010289	CHEYENNE, WY	CESSNA	172	NONE	392
146	9739L	010289	SANTA FE, NM	BEECH	19	NONE	282
147	30PC	041089	PENSACOLA, FL	BEECH	200	FATAL	172
148	9874	031189	STUTTGART, AR	GRUMMAN	G-164A	MINOR	66
149	7245	041389	OSCEOLA, AR	GRUMMAN	G-164A	MINOR	.70 21 0
150	16733	010889	PARK CITY, UT	BELL	206B III	NONE	346
151	89803	011989	JACKSONVILLE, FL	CESSNA	152	NONE	144
151	32816	011989	JACKSONVILLE, FL	PIPER	PA-28-151	NONE	146
152	8547H	030189	RIVERDALE, CA	GRUMMAN	G-164A	SERIOUS	102
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155	9578V	032789	WEST BEND, WI	CESSNA	172M	NONE	388
156	1672M	040589	LOS LUNAS, NM	CESSNA	182P	MINOR	290
157	35053	032489	FORT DODGE, IA	CESSNA	177	NONE	196
158	3070 M	012389	LAS CRUCES, NM	PIPER	PA-34-200T	NONE	288
159	4028D	021189	BALDWIN, WI	CESSNA	182A	NONE	382
160	6347H	011789	PAGE, AZ	CESSNA	T207A	NONE	74
161	4445W	041289	INDIANAPOLIS, IN	BEECH	A60	NONE	216
162	1721W	011889	BROOMFIELD, CO	BEECH	V35B	MINOR	118
163	2652N	011889	FARMINGTON, NM	CESSNA	140	NONE	286
164	83596	011989	MEDICINE LAKE, MT	PIPER	PA-18-150	NONE	256
165	69117	020989	GILL, CO	CESSNA	152	NONE	124
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167	735VE	031389	BROOMFIELD, CO	CESSNA	TU206G	MINOR	128
168	4273Z	032589	GREAT FALLS, MT	PIPER	PA-18-150	NONE	258
169	5398R	011789	OAKLAND, CA	CESSNA	TR182	NONE	84
170	1058D	011889	SONOMA, CA	CESSNA	190	NONE	88
171	6913D	011789	SANTA ANA, CA	PIPER	PA-32R-301	NONE	86
172	22988	012189	NAPA, CA	CESSNA	150H	NONE	90
173	2860W	012689	DAYTONA BEACH, FL	ВЕЕСН	A36	NONE	148
174	4506D	012789	PANACEA, FL	BEECH	G-35	MINOR	150
175	8163F	013089	SAN MARTIN, CA	PIPER	PA-28-161	MINOR	92
176	9961	012289	SANTA FE, TX	PITTS	S1A	SERIOUS	330
177	83864	040589	CHEYENNE, WY	PIPER	PA-34-220T	NONE	394
178	98923	042589	OTTAWA, IL	CESSNA	172D	NONE	212

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179	132BC	050189	WIXOM, MI		CESSNA	320D	MINOR	232
180	5874P	052089	DECATUR, TX	į	PIPER	PA-24-250	NONE	344
181	50703	041789	ATHENS, TX	•	CESSNA	150 J	MINOR	342
182	375 M C	022689	EL PASO, TX		INTERMOUNTAI	CALLAIR A-	MINOR	336
183	7701V	031389	FISHER, AR	,	CALLAIR	A9-B	NONE	68
184	8 1GJ	031189	LINCOLN, NE	ı	JENNINGS	PIETENPOL	NONE	274
185	23702	041589	ROSEAU, MN		AIR TRACTOR	AT-301	NONE	244
186	9424V	040889	LAKE ELMO, MN	!	MOONEY	M2OE	NONE	242
187	3832J	032689	PAPILLION, NE	(CESSNA	150	SERIOUS	276
188	6972C	022289	COMPTON, CA	ľ	NORTH AMERIC	AT-6	MINOR	100
189	61LM	011589	TUCSON, AZ	, r	MURPHEY	VANCRAFT 5	FATAL	72
190	2638N	012889	PENSACOLA, FL	(CESSNA	T31OR	NONE	152
191	4033J	031189	JACKSONVILLE, FL	·	ADAMS	AX-9	SERIOUS	170
192	3243B	030289	JACKSONVILLE, FL	ı	PIPER	PA-22-135	MINOR	168
193	863Z	022489	OKLAWAHA, FL	F	BELL	47G	NONE	166
194	204AP	020889	GREENVILLE, FL	. f	BELL	TH-1L	NONE	158
195	1010U	021689	DAYTONA BEACH, FL	,	AERO COMMANÓ	500U	NONE	164
196	6829Q	011689	BRIDGEPORT, CT	E	BEECH	S-35	MINOR	132
_197	2553X	032989	FARMINGDALE, NY	F	ROBINSON	R-22B	NONE	304
198	4385L	032489	PĨTTSTOWN, NU	F	PIPER	PA-28-181	SERIOUS	280
199	6888G	011489	SHIRLEY, NY	(CESSNA	150L	NONE	302
200	81859	020889	MELBOURNE, FL	(CESSNA	T210L	MINOR	160

AIRCRAFT ACCIDENT REPORTS BRIEF FORMAT U.S. CIVIL AND FOREIGN AVIATION ISSUE NUMBER 1 OF 1989 ACCIDENTS

File No 1 1/02/89 CANT	WELL, AK	A/C Reg. No. N	5134T	Т	ime (Lc1)	- 1512 AS	Г
Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft Damage			Inju	ries	
		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	1
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - CHAMPION 7GCBC		Model - LYCOMING 0-3	320-B2B		Installed/		
Landing Gear - TAILWHEEL-ALL FIXED		ngines - 1			l Warning	System - N	10
Max Gross Wt - 1650		pe - RECIPROCATIN	NG-CARBURE	TOR			
No. of Seats - 2	Rated Po	ver - 160 HP					
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEFIN Method - N/A	G Last Depai ANCHORAG			ON AIR	STRIP		
Completeness - N/A	Destination	า		Airport D	ata		
Basic Weather - VMC	CANTWELI	., AK		CANTWE	LL		
Wind Dir/Speed- CALM						- 04	
- Visibility - 15.0 SM	ATC/Airspace		•		Lth/Wid		NK/NR
Lowest Sky/Clouds - 4000 FT SCA				•	Surface		
Lowest Ceiling - NONE		earance - NONE		Runway	Status	- SNOW - L	ORY
Obstructions to Vision- NONE Precipitation - NONE	Type Apch,	Lndg - TRAFFIC	PATTERN				
Condition of Light - DAYLIGHT	•						
Personnel Information Pilot-In-Command	Age - 36	Medical (Certificat	e - VALID	MEDICAL-N	N WATVERS	/
Certificate(s)/Rating(s)	Biennial Flight			nt Time (H		,	
STUDENT	Current		1 -		Last 2	4 Hrs -	2
	Months Since	e - N/A Make/	/Model-	16	Last 3	Days-	3
	Aircraft Typ		rument-		Last 9	O Days-	12
Instrument Rating(s) - NONE							
Narrative							
			JAV AT CAN	ITWELL AV	THE WHEEL		
STUDENT PILOT AND HIS PASSENGER WERE ATT	EMPTING TO LAND ON	I A SNOW COVERED RUNV	WAY AI CAN	HWELL, AN	. INC WHILL	_	

File No. - 1 1/02/89 CANTWELL,AK A/C Reg. No. N5134T Time (Lc1) - 1512 AST

Occurrence #1
Phase of Operation

MAIN GEAR COLLAPSED

e of Operation LANDING - ROLL

Finding(s)

- 1. TERRAIN CONDITION SNOW COVERED
- 2. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND
- 3. LACK OF TOTAL EXPERIENCE PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S SELECTION OF UNSUITABLE TERRAIN FOR LANDING. CONTRIBUTING FACTORS WERE THE PILOT'S LACK OF TOTAL EXPERIENCE, AND THE SNOW COVERED RUNWAY.

File No 3 1/03/89 RUSSI	AN MISSION, AK	A/C Reg	g. No. N7329U	1	ime (Lcl)) - 1540 AS	Т
Basic Information Type Operating Certificate-COMMUTER Name of Carrier -RYAN AIR Type of Operation -SCHEDULED,DO Flight Conducted Under -14 CFR 135 Accident Occurred During -LANDING	MESTIC, PASSENGER	Aircraft SUBSTAN Fire NONE			Inj Serious O O	juries s Minor O O	None 1 1
Aircraft Information Make/Model - CESSNA 207A Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3800 No. of Seats - 7	Eng Make/M Number Eng Engine Typ Rated Powe	ines - 1 e - RECI	TINENTAL IO-520 P-FUEL INJECTED 300 HP	S	itall Warr	d/Activated ning System	
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 - 3.000 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 700 FT OVER Obstructions to Vision- UNK/NR Precipitation - SNOW Condition of Light - DAYLIGHT	KALSKAG,A Destination RUSSIAN M ATC/Airspace Type of Fli	K ISSION,AK ght Plan - arance -	COMPANY (VFR) NONE TRAFFIC PATTERN FORCED LANDING	OFF AI Airport C Runway Runway Runway Runway Runway	Proximity RPORT/STF Data Ident Lth/Wid Surface Status	- N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 33 Biennial Flight R		Medical Certific Fli	ate - VALID ght Time (F		-WAIVERS/LI	MIT
ATP SE LAND, ME LAND, SE SEA	Current Months Since Aircraft Type		Total - Make/Model- Instrument- Multi-Eng -	2205 207	Last	24 Hrs - 30 Days- 90 Days-	3 71 240
Instrument Rating(s) - AIRPLANE							
THE COMMERCIAL AIR TAXI PILOT AND HIS PASSENG HE HAD FLOWN OVER HIS INTENDED LANDING SITE A THE ENGINE OF CESSNA 207 LOST MOST OF ITS POW AND ELECTED TO LAND ON THE NEARBY, FROZEN, YU LANDING APPROACH DUE TO THE FEATURELESS, ALL SLIGHT RIGHT TURN. INSPECTION OF THE CRASH SI LEFT FUEL TANK SUMP. NO OTHER OBVIOUS ABNORMA FUEL TANK WERE CONTRIBUTORY TO THE ACCIDENT D	T RUSSIAN MISSION, ER. HE WAS UNABLE KON RIVER. HE SAID WHITE SURFACE OF T TE TWO DAYS AFTER LITIES WERE NOTED.	AK., TO INTO TO RESTORE THAT HE MITTER HE RIVER, A THE ACCIDEN IT IS UNKN	ISPECT THE RUNWA SUFFICIENT POWE SJUDGED HIS ALT IND STRUCK THE SI IT REVEALED NUME IOWN IF THE ICE	Y. ON THE D R TO REMAIN ITUDE DURIN JRFACE WHIL ROUS ICE CR CRYSTALS FO	OWNWIND L I AIRBORNE IG THE E STILL I YSTALS IN UND IN TH	EG, E N A N THE	

File No	3 . 1/03/89	RUSSIAN MISSION,AK	A/C Reg	. No. N7329U	Time (Lcl) - 1540 AST	
Occurrence #1 Phase of Operation		OWER(PARTIAL) - NON-MECHAN ATTERN - DOWNWIND	·			
1 POWERPLANT - FA	ILURE,PARTIAL NNING/DECISION - 1	MPROPER - PILOT IN COMMAND		Alexandrian Services (1997) Alexandrian		
Occurrence #2 Phase of Operation	FORCED LANDING					
Occurrence #3 Phase of Operation	DRAGGED WING, RC LANDING - FLARE	TOR, POD, OR FLOAT TOUCHDOWN				
Finding(s) 3 MANEUVER - IMPRO	OPER - PILOT IN CO	MMAND	•			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PARTIAL ENGINE POWER LOSS DUE TO UNDETERMINED REASONS. CONTRIBUTING TO THE ACCIDENT WAS THE PILOT'S IMPROPER
INFLIGHT PLANNING BY FLYING AT A TRAFFIC PATTERN ALTITUDE INSUFFICIENT TO INSURE A SAFE EMERGENCY LANDING EITHER ON
OR OFF THE AIRPORT AND HIS MISJUDGEMENT OF CLEARANCE ABOVE THE FROZEN RIVER.

	UNEAU,AK 		No. N6420E		ime (Lc1) -		
Basic Information Type Operating Certificate-ON-DEMAN		Aircraft [)amage		Injur	ies	
Name of Carrier -CHANNEL		SUBSTANTI		Fatal	Serious	Minor	None
Type of Operation -SCHEDULE			Cre		0	0	1
Flight Conducted Under -14 CFR 1 Accident Occurred During -LANDING	35	NONE	Pas	s 0	0	0	1
-Aircraft Information							
Make/Model - CESSNA 185F			NENTAL IO-520-		Installed/A		
Landing Gear - AMPHIBIAN	Number Eng				tall Warnir	ng System	- YES
Max Gross Wt - 3320	Engine_Typ		P-FUEL INJECTED				
No. of Seats - 4	Rated Powe	r 30	OO HP				
Environment/Operations Information						4	
Weather Data	Itinerary.	Dat t		•	Proximity		
Wx Briefing - FSS Method - IN PERSON	Last Depart	ure Point		ON AIR	PORT		4
Method - IN PERSON Completeness - WEATHER NOT PERTI	KAKE, AK			Administra D	-+-		
Basic Weather - VMC	NENT Destination SAME AS A	CC/INC		Airport D SNETTI			
Wind Dir/Speed- 135/020 KTS	SAME AS A	CC/ INC				36	
Visibility - 2.000 SM	ATC/Airspace				Lth/Wid -		100
Lowest Sky/Clouds - UNK/NR	Type of Fli	ght Plan - V	/FR		Surface -		, , ,
	OVERCAST Type of Cle					SNOW - [DRY
Obstructions to Vision- NONE	Type Apch/L	ndg - S	STRAIGHT-IN	-			
Precipitation - SNOW		F	ULL STOP				
Condition of Light - DAYLIGHT							
-Personnel Information					_		
Pilot-In-Command	Age - 38		edical Certific) WAIVERS,	LIMIT
Certificate(s)/Rating(s)	Biennial Flight R	eview - YES		ght Time (H		Una	4
COMMERCIAL,CFI SE LAND,SE SEA	Current Months Since	_	Total - Make/Model-	300	Last 24 Last 30		4 35
SE LAND, SE SEA	Aircraft Type		Instrument-	60	Last 90		85
	An erar c Type	ONN, NIC	Multi-Eng -			aft - UN	
. Instrument Rating(s) - AIRPLAN	E						
Name Aire							
-Narrative ? 135 FLT WAS DIVERTED TO REMOTE STRIP :	TO DICK UP ADDITIONAL	DACCENCEDO	THE DICEATONED	WAS NOT AM	ADE THAT TH	ıc	
WAY WAS COVERED BY 4 FT OF SNOW UNTIL							
WED AS IT WAS IN PREVIOUS WINTERS. THE							
R FLYING THE RWY TO CHECK ITS CONDITION							
IN I E I TING THE NATE TO CHECK THE CONDITION							

File No. - 5 1/10/89 JUNEAU,AK A/C Reg. No. N6420E Time (Lc1) - 1530 AST

Occurrence #1
Phase of Operation

NOSE OVER

Finding(s)

- 1. TERRAIN CONDITION SNOW COVERED
- 2. IN-FLIGHT PLANNING/DECISION INFORMATION INSUFFICIENT -
- 3. UNSUITABLE TERRAIN SELECTED DISPATCHER
- 4. WEATHER CONDITION SNOW
- 5. FLT WITH INADQT ENROUTE/DESTN FACILITIES DISPATCHED DISPATCHER
- 6. TERRAIN CONDITION BOX CANYON

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE MISJUDGEMENT OF THE RUNWAY CONDITIONS ON THE PART OF THE PILOT PRIOR TO LANDING. CONTRIBUTING TO THE ACCIDENT WERE
DEEP SNOW ON THE RUNWAY, BOX CANYON CONFIGURATION OF THE AREA PRECLUDING RUNWAY OVERFLIGHT, MARGINAL WEATHER/LIGHT
CONDITIONS FOR ASSESSING THE RUNWAY STATUS AND FAILURE ON THE PART OF COMPANY DISPATCH PERSONNEL TO ACQUIRE AND
PROVIDE THE PILOT WITH THE RUNWAY CONDITIONS BEFORE DIVERTING THE FLIGHT TO THE LOCATION OF THE MISHAP.

Injuries Fatal Serious Minor None Crew O O O 1 Pass O O O 1 Pass D C O O 1 Stall Warning System - YES
Fatal Serious Minor None Crew O O O 1 Pass O O O 1 LINIAB ELT Installed/Activated - YES/NG Stall Warning System - YES
Fatal Serious Minor None Crew O O O 1 Pass O O O 1 N14B ELT Installed/Activated - YES/NO Stall Warning System - YES
Fatal Serious Minor None Crew O O O 1 Pass O O O 1 N14B ELT Installed/Activated - YES/NO Stall Warning System - YES
Crew 0 0 0 1 Pass 0 0 0 1
Pass 0 0 0 1 N14B ELT Installed/Activated - YES/N0 Stall Warning System - YES
.N14B ELT Installed/Activated - YES/NO Stall Warning System - YES
N14B ELT Installed/Activated - YES/NO Stall Warning System - YES
.N14B ELT Installed/Activated - YES/N0 Stall Warning System - YES
N14B ELT Installed/Activated - YES/NO Stall Warning System - YES
Stall Warning System - YES
NC_CARRIDETOR
ING CARBORETOR
· · · · · · · · · · · · · · · · · · ·
Airport Proximity
OFF AIRPORT/STRIP
Airport Data
All por a baca
Runway Ident - N/A
Runway Lth/Wid - N/A
Runway Surface - WATER
Runway Status - WATER-CALM
T-IN
OP
UP .
Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Flight Time (Hours) 11 - 350 Last 24 Hrs - UNK/NR
Flight Time (Hours)
1] - 350 Last 24 Hrs - UNK/NR
e/Model- 33 Last 30 Days- 7
rument- 55 Last 90 Days- 27
i-Eng - UNK/NR Rotorcraft - UNK/NR
11 2/

File No	4	1/10/89	KETCHIKAN, AK	A/C Reg. No. N6766	67 	Time (Lcl) -	1500 AST	
Occurrence #1 Phase of Operation	DRAGGE LANDIN		OR, POD, OR FLOAT					
Finding(s) 1. FLARE - IMPROPE	R - PILO	T IN COMMAN	ID					
Probable Cause								

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLARE ATTITUDE AT TOUCHDOWN, CAUSING THE LEFT FLOAT TO DIG INTO THE WATER.

File No 2 1/1	12/89 BELL MOUNTAIN,AK		A/C Reg. No. N5074R			Time (Lcl) - 1115 AST				
Basic Information										
Type Operating Certificate	e-ON-DEMAND AIR T	AXI	Aircraft [Injur			
Name of Carrier Type of Operation Flight Conducted Under	-SOLOY, L.C.		SUBSTANT			Fatal			None	
Type of Operation	-NON SCHED, DOMES	TIC, PASSENGER	Fire		Crew	0	0	0	1	
Flight Conducted Under	-14 CFR 135		NONE		Pass	0	0	0	· 1	
Accident Occurred During	-LANDING									
-Aircraft Information	_									
Make/Model - HUGHES 500)-D			SON 250-C20B			installed/Ad			
Landing Gear - SKID		Number Eng	ines - 1			Si	all Warning	y System	- NO	
Max Gross Wt - 3000			e - TURBO				-			
No. of Seats - 4		Rated Powe	r - 42	20 HP 						
-Environment/Operations Infor	mation									
Weather Data		Itinerary			Α		roximity		•	
	D OF BRIEFING	Last Depart				OFF AIR	RPORT/STRIP			
Method - N/A		WASILLA,A	K							
Completeness - N/A		Destination			Αi	rport Da	ata			
Basic Weather - VMC	KTC	LOCAL				0	Talasak	N1 / A		
Wind Dir/Speed- 270/005		ATC/Airspace					Ident - Lth/Wid -	N/A		
Visibility - 30.0 Lowest Sky/Clouds -			wh+ Dlan - (COMPANY (VED			Surface -			
		Type of Cle			,			N/A		
Obstructions to Vision-		Type Of Cie		NONE		Kullway	Status	N/ A		
Precipitation -		Type Apcil/ L	nag i	NOINE						
Condition of Light -	DAVI IGHT									
-Personnel Information Pilot-In-Command		ie - 30		edical Certi	ficato	- VAL TD	MEDICAL -NO	WATVEDS	/. TMTT	
Certificate(s)/Rating(s)		ennial Flight R		edical certi				WAIVERS	/ LIMI	
ATP,CFI	, 61	Current	- YES				Last 24	Hrs -	2	
SE LAND		Months Since	-				Last 30		25	
HELICOPTER		Aircraft Type				00	Last 90	Days-	150	
TIEE TOOT TER		All oldic Type	5505	Multi-End		0	Rotorcra	ift -	4000	
				Martin Eng						
Instrument Rating(s)	- AIRPLANE									
PILOT ENCOUNTERED A COMPLETE	WHITEOUT CONDIT	ION DURING THE	APPROACH AND	HOVER ON A	MOUNTA	IN. THE	PILOT			
TED THAT AFTER TOUCHDOWN THE						.				

File No. -1/12/89 BELL MOUNTAIN, AK A/C Reg. No. N5074R Time (Lcl) - 1115 AST Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation HOVER Finding(s) 1. WEATHER CONDITION - WHITEOUT 2. CLEARANCE - MISJUDGED - PILOT IN COMMAND 3. VISUAL/AURAL PERCEPTION - PILOT IN COMMAND Occurrence #2 ROLL OVER Phase of Operation LANDING - FLARE/TOUCHDOWN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S MISJUDGMENT OF HIS CLEARANCE ABOVE THE TERRAIN DUE TO DISTORTED VISUAL PERCEPTION. CONTRIBUTING TO THE ACCIDENT WAS THE WHITEOUT CONDITION.

File No 82 1/15/89 KET	e No 82 1/15/89 KETCHIKAN, AK			Time (Lc1) - 0810 AST				
Basic Information Type Operating Certificate-COMMUTER Name of Carrier -TEMSCO HEL Type of Operation -NON SCHED, Flight Conducted Under -14 CFR 135 Accident Occurred During -DESCENT	DOMESTIC, PASSENGER	ON GROUND	Crew Pass	1 1	Injuri Serious O O	Minor O O	None O O	
Aircraft Information Make/Model - DEHAVILLAND DHC-3 Landing Gear - FLOAT Max Gross Wt - 7967 No. of Seats - 11	Eng Make/Mo Number Eng	odel - P&W R-134 ines - 1 e - RECIPROCA	0-59 TING-CARBURETO	ELT 1		tivated	- YES/NO	
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- 340/007 KTS Visibility - 75.0 SM Lowest Sky/Clouds - 1800 FT SC Lowest Ceiling - 3200 FT BR Obstructions to Vision- FOG Precipitation - SNOW SHOWER Condition of Light - DAYLIGHT	OKEN Type of Clea Type Apch/L	,AK < ght Plan - COMPA	Ai	OFF AIR rport Da Runway Runway Runway		N/A		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,SE SEA	Age - 22 Biennial Flight R Current Months Since Aircraft Type	eview - YES To - 9 Ma	l Certificate Flight tal - 14 ke/Model- 1 strument- UNK/ lti-Eng -	Time (Ho 70 50	burs) Last 24 Last 30	Hrs - Days-	1 25	
Instrument Rating(s) - AIRPLANE								
Narrative FTER DEPARTING THE FLOATPLANE BASE ON A CO ORTHWEST ALONG A SALT WATER STRAIT AT A LO NOW SQUALL AND THE PILOT ATTEMPTED A STEEP N 167 FT DEEP WATER. SEARCH AND RESCUE EFF	W ALTITUDE ABOVE WAT TURN TO REVERSE COU	ER. TWO MILES NW RSE. DURING THE	OF THE ARPT T	HE ACFT	ENTERED A	NK		

1/15/89 A/C Reg. No. N11250 Time (Lc1) - 0810 AST File No. - 82 KETCHIKAN, AK Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE Finding(s) 1. WEATHER CONDITION - SNOW 2. VFR FLIGHT INTO IMC - INADVERTENT - PILOT IN COMMAND 3. WEATHER EVALUATION - POOR - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING - TURN TO REVERSE DIRECTION Finding(s) 4. MANEUVER - EXCESSIVE - PILOT IN COMMAND 5. STALL - INADVERTENT -Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADVERTANT FLIGHT INTO IFR CONDITIONS AND THE STALL WHICH OCCURRED DURING THE TURN TO REVERSE COURSE. CONTRIBUTING TO THE ACCIDENT WERE THE SNOW CONDITIONS ENCOUNTERED.

Basic Information	_						
Type Operating Certificate-COMMUTE	R . ATBUAYS ING	Aircraft Dam		Fa+-1	Injur		Mana
Name of Carrier -PENINSU Type of Operation -NON SCH Flight Conducted Under -14 CFR	LA AIRWAYS, INC. ED DOMESTIC DAY/CARGO	SUBSTANTIAL		Fatal O	Serious O	Minor . O	
Flight Conducted Under -14 CFR	135	fire NONE	Pass		0	0	3
Accident Occurred During -LANDING		145142		ŭ		J	J
Aircraft Information							
Make/Model - PIPER PA-32-300		Model - LYCOMIN	G IO-540-K1A5		nstalled/A		
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3400		gines - 1 oe - RECIP-FO	HEL THUECTED	51	tall Warning	g System	- YES
No. of Seats - 7		er - 800 l					
Environment/Operations Information							
Weather Data	Itinerary			Airport F	•		
Wx Briefing - NO RECORD OF BRI	•			ON AIRF	PORT		
Method - N/A	KODIAK, AF			1: D			
Completeness - N/A Basic Weather - VMC	Destination SAME AS			Airport Da			
Wind Dir/Speed- 300/012 KTS	SAME AS A	ACC/ INC				24	
	ATC/Airspace				Lth/Wid -		100
Lowest Sky/Clouds - 3400 FT			PANY (VFR)		Surface -		
Lowest Ceiling - NONE	Type of Cle	earance - NON	E	Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/l	earance - NUN Lndg - TRA	FFIC PATTERN				
Precipitation - NONE		FUL	L STOP				
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 32	Medi	cal Certifica			IVERS/LIM	IIT
Certificate(s)/Rating(s)	Age - 32 Biennial Flight F Current	Review		ht Time (Ho			
ATP		, _ 0	Total -	6457	Last 24	Hrs -	3
SE LAND, ME LAND	Months Since Aircraft Type	- 6	Make/Model- Instrument-	498	Last 30 Last 90	Days-	63 161
	инстатт тур		Multi-Eng -		Last 90	Days-	101
Instrument Rating(s) - AIRPLA							
NATTATIVE AIR-TAXI PILOT REPORTED THAT WHEN HE	WAS ABOUT 15 FEET OVER	R THE RUNWAY TH	RESHOLD THE	ATRPLANE RE	GAN SINKING	3	
DLY. HE ADDED POWER AND AFT ELEVATOR							
LAGE TO STRIKE THE RUNWAY.	CONTROL, DOT THE AIRFT	TANE STILL LAND	LD HARD, CAUS	TING THE ALL	ביאט טו וווו	-	

File No. - 9 1/15/89 PORT LIONS,AK A/C Reg. No. N43527 Time (Lcl) - 1548 AST

Occurrence #1
Phase of Operation

HARD LANDING

LANDING - FLARE/TOUCHDOWN

Finding(s)

1. WEATHER CONDITION - DOWNDRAFT

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

3. STALL/MUSH - NOT CORRECTED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOTS INADEQUATE COMPENSATION FOR WIND CONDITIONS WHICH RESULTED IN A STALL/MUSH AND SUBSEQUENT HARD LANDING. THE DOWNDRAFT WHICH THE AIRCRAFT ENCOUNTERED WAS A FACTOR IN THE ACCIDENT.

Basic Information Type Operating Certificate-NONE (GEN	IFRAL AVIATION)	Aircraft Da	mage		Injur	ries	
Type operating certificate none (der	IENAL AVIATION)	SUBSTANTIA	L	Fatal	Serious		None
Type of Operation -PERSONAL		Fire	Crew	0		0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	0
Accident Occurred During -DESCENT							
Aircraft Information		.					
Make/Model - CESSNA 150		Model - CONTIN					
Landing Gear - TRICYCLE-FIXED		ngines - 1	OCATING-CARBURE		all Warnir	ng System	- YES
Max Gross Wt - 1600 No. of Seats - 2	Engine Ty Rated Pov			TUR			
NO. OF Seats - 2	Rated Pov	ver - 100					
Environment/Operations Information Weather Data	Itinerary			Ainmont (Proximity		
weather bata Wx Briefing - NO RECORD OF BRIEF		sture Point			PORT/STRIF)	
Method - N/A	ANCHORAG			011 411	CI OKI/ SIKII		
Completeness - N/A	Destination			Airport Da	ata		
Basic Weather - VMC	LOCAL	•					
Wind Dir/Speed- CALM				Runway	Ident -	N/A	
Visibility - 10.0 SM	ATC/Airspace			Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - 4000 FT S					Surface -		
Lowest Ceiling - NONE		earance - NO		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/	'Lndg - ST					
Precipitation - NONE		SI	MULATED FORCED	LANDING			
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 28	Manad	ical Certificat	· VALTO	MEDICAL NO	WATVEDO	/1 TMTT
	Biennial Flight					WAIVERS	/ LIMII I
STUDENT	Current	- N/A	Total -	96	Last 24	Hrs - U	NK/NR
5,55E(1)	Months Since	- N/A e - N/A pe - N/A	Make/Model-	51	Last 30	Days-	2
	Aircraft Tv	pe - N/A	Instrument-	0	Last 90	Days-	11
	21	•				•	
Instrument Rating(s) - NONE							
Narrative		,					
STUDENT PILOT WAS SIMULATING A FORCED	LANDING TO A FROZEN	LAKE WHEN A LO	SS OF POWER WAS	EXPERIENC	ED. THE AC	FT	
HED INTO A WOODED AREA DURING THE APCH							
THE ENGINE SHOULD HAVE BEEN KEPT AT A							

File No	7 1/16/89	BIG LAKE, AK	A/C Reg. No. N6414K	Time (Lcl) - 1415 AST
Occurrence #1 Phase of Operation	LOSS OF ENGINE	POWER		
Finding(s) 1. WEATHER CONDITIO 2. UNDETERMINED	N - TEMPERATURE	EXTREMES		
	IN FLIGHT COLL DESCENT - EMER	ISION WITH TERRAIN/WA	ER	
Finding(s) 3. OBJECT - TREE(S)				
Probable Cause	_			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE STUDENT PILOT'S FAILURE TO FOLLOW PROCEDURES DURING THE SIMULATED FORCED LANDING. CONTRIBUTING TO THE ACCIDENT WERE THE EXTREME TEMPERATURES.

Type Operating Certificate-NONE (GENERA		ft Damage ANTIAL	Fatal	Injuries Serious Mino	r None
Type of Operation -PERSONAL	Fire	Cre		0 0	
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAXI	NONE	Pas	-	0 0	1
-Aircraft Information					
Make/Model - PIPER PA-18	Eng Make/Model - L				
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750	Number Engines - Engine Type - R			tall Warning Syst	em - NU
No. of Seats - 2	3 7,	150 HP	,		
-Environment/Operations Information					
Weather Data	Itinerary			Proximity	
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Poin GIRDWOOD,AK	t	OFF A1	RPORT/STRIP	
Completeness - N/A	Destination		Airport D	ata	
Basic Weather - VMC	LOCAL		Allpoit	a ca	
Wind Dir/Speed- 030/006 KTS	2007/2		Runway	Ident - N/A	
Visibility - 60.0 SM	ATC/Airspace		Runway	Lth/Wid - N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan		Runway	Surface - N/A	
Lowest Ceiling - NONE	Type of Clearance		Runway	Status - N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE			
Precipitation - NONE Condition of Light - DAYLIGHT					
Pilot-In-Command	Age - 45			MEDICAL-NO WAIVE	RS/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review		ght Time (H	•	0
ATP SE LAND,ME LAND,SE SEA,ME SEA	Current - YES Months Since - 7	Total - Make/Model-		Last 24 Hrs - Last 30 Days-	
GLIDER	Aircraft Type - B-377	•	3100	Last 90 Days	30
GETSEN	All of all Citype B 077	Multi-Eng -	16000	Rotorcraft -	
Instrument Rating(s) - AIRPLANE					,
AIRLINE TRANSPORT PILOT LANDED UP-SLOPE O	N A GLACIER AND WAS TURNIN	G TO TAKEOFF DOWN-	SLOPE WHEN	TAILWIND AND	
20 DEGREE SLOPE CAUSED THE AIRCRAFT TO TUR					

A/C Reg. No. N4280Z File No. - 13 1/21/89 GIRDWOOD, AK Time (Lc1) - 1600 AST LOSS OF CONTROL - ON GROUND Occurrence #1 Phase of Operation TAXI - TO TAKEOFF Finding(s) 1. TERRAIN CONDITION - DOWNHILL 2. TERRAIN CONDITION - ICY 3. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND OVER CONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND OVER CONFIDENCE IN AIRCRAFT'S ABILITY - PILOT IN COMMAND Occurrence #2 GEAR COLLAPSED Phase of Operation TAXI - TO TAKEOFF -------DRAGGED WING, ROTOR, POD, OR FLOAT Occurrence #3 Phase of Operation TAXI - TO TAKEOFF

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S FAILURE TO MAINTAIN CONTROL OF THE AIRPLANE WHILE ATTEMPTING TO TAKEOFF FROM A SLOPED TERRAIN THAT WAS
TOO STEEP FOR A SAFE OPERATION. CONTRIBUTING TO THE ACCIDENT WAS THE DOWNHILL, ICY TERRAIN CONDITIONS AND THE PILOT'S
OVERCONFIDENCE IN BOTH HIS AND THE AIRPLANE'S ABILITY..

Basic Information Type Operating Certificate-ON-DEMAND AI					Time (Lc1) - 1900 AST			
	D TAYT	Aircraft	Damage			Injur	nies.	
					Fatal	Serious	Minor	None
Name of Carrier -BUSH AIR, IN Type of Operation -NON SCHED, DO	MESTIC PASSENGER	Fire	,	Crew		0	0	1
Flight Conducted Under -14 CFR 135		NONE		Pass		Ö	Ö	3
Accident Occurred During -LANDING		•						
Aircraft Information								
Make/Model - CESSNA 207	Eng Make/Mo		INENTAL IO-	-520		installed/		
Landing Gear - TRICYCLE-FIXED	Number Engi				S.	tall Warnir	ng System	- YES
Max Gross Wt - 3800	Engine Type		P-FUEL INJE	ECTED				
No. of Seats - 7	Rated Power	3	300 HP 					
nvironment/Operations Information					.			
Weather Data Itinerary		5			Airport			
Wx Briefing - NO RECORD OF BRIEFING	•	re Point			ON AIR	ואטי		
Method - N/A	BETHEL, AK							
Completeness - N/A	Destination				Airport Da			
Basic Weather - VMC	KALSKAG, AK	•			KALSKA		11111/2 /210	
Wind Dir/Speed- 140/003 KTS	ATC / A = ======						· UNK/NR	EO
Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR	ATC/Airspace Type of Flio	b+ Dlan -	VED			Lth/Wid -		50
Lowest Ceiling - NONE	Type of Clea						· DRY	
Obstructions to Vision- NONE	Type Apch/Lr			TTEDN	Rullway	Status	SNOW - (nev .
Precipitation - NONE	Type Apeny Er			LEKN			3140#	JK 1
Condition of Light - NIGHT(DARK)			1022 3101	·.				
Personnel Information								
Pilot-In-Command	Age 47	N	Medical Cert	tifica	te - VALID	MEDICAL-NO	WAIVERS,	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Re	view	**	Flig	ht Time (H	ours)		
COMMERCIAL, ATP		- YES			12490			5 .
SE LAND, ME LAND, SE SEA, ME SEA	Months Since		Make/Mod		4450	Last 30) Days-	29
HELICOPTER	Aircraft Type	- C-207	Instrume		505	Last 30 Last 90	Days-	29
			Multi-Er	ng -	1100	Rotorc	aft -	120
Instrument Rating(s) - AIRPLANE								
narrative PILOT LOST DIRECTIONAL CONTROL OF THE AIR	DIANE WHICH COLLISE	D WITH A G	NOWBEDM AET	TED 1 A	NOTNO WITH	THODEDATI	/E	
ING AND TAXI LIGHTS ON A DARK NIGHT. THE							, E	
AY, WITH THE LEFT MAIN WHEEL 2-3 FEET FRO								

File No. - 86 1/23/89 KALSKAG,AK A/C Reg. No. N1749U Time (Lc1) - 1900 AST

Occurrence #1

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

- 1. LANDING LIGHT INOPERATIVE
- 2. PROPER ALIGNMENT NOT ATTAINED PILOT IN COMMAND
- 3. TERRAIN CONDITION BERM
- 4. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 5. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT IMPROPER PILOT IN COMMAND
- 6. LIGHT CONDITION DARK NIGHT

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT FAILED TO PROPERLY ALIGN THE AIRPLANE ON THE RUNWAY FOR LANDING, THEN FAILED TO MAINTAIN DIRECTIONAL CONTROL
AFTER LANDING. CONTRIBUTING TO THE ACCIDENT WAS THE PILOTS OPERATION OF THE AIRPLANE WITH AN INOPERATIVE LANDING LIGHT
AND THE DARK NIGHT CONDITIONS.

Basic Information							
Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft Damage		F-+-1	Injur		
Type of Operation -PERSONAL		SUBSTANTIAL Fire	Crew	Fatal O		Minor O	None 1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	ő		
Accident Occurred During -TAKEOFF			, 5.22	-	-	-	·
Aircraft Information							
Make/Model - CESSNA 180		Model - CONTINENTAL					
Landing Gear - SKI		ngines - 1			tall Warnir	ng System	- YES
Max Gross Wt - 2550	· · · · · · · · · · · · · · · · · · ·	pe - RECIPROCATI ver - 225 HP	NG-CARBURE	UR			
No. of Seats - 4	Rated Pow	/er - 225 HP					
Environment/Operations Information Weather Data	Itinerary			Ainmont i	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		cture Point			RPORT/STRIF	o	
Method - N/A	SAME AS			011 A1	(1 0 ((1/31)(2)		
Completeness - N/A	Destination	•	1	Airport Da	ata		
Basic Weather - VMC	LOCAL			•			
Wind Dir/Speed- 090/020 KTS					Ident -		
Visibility - 20.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - CLEAR		ight Plan - NONE		,	Surface -	•	
Lowest Ceiling - NONE Obstructions to Vision- NONE		earance - NONE Lndg - NONE		Runway	Status -	- N/A	
Precipitation - NONE	Type Apcil/	Lind - None					
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 46 Biennial Flight	Medical Review	Certificate Flight	e - VALID t Time (Ho) WAIVERS/	LIMIT
PRIVATE	Current	- YES Tota	1 • -	350	Last 24	4 Hrs - UN	IK/NR
SE LAND, SE SEA		e - 15 · Make	/Model- rument- UNK	330	Last 30	Days- UN	IK/NR
	Aircraft Typ	e - UNK/NR Inst	rument- UNK	K/NR	Last 90		
		Mult	i-Eng - UNK	C/NR	Rotorc	raft - UN	IK/NR
Instrument Rating(s) - NONE							
-Narrative							
PLT ATTEMPTED A TAKEOFF FROM A ROUGH AND	UNEVEN FROZEN RIV	ER IN THE SKI EQUIP	PED ACFT. 1	THE TAKEO	FF WAS MADE	Ē	
WINDS OF 20 KTS GUSTING TO 35 KTS. AS TH							
ACFT BOUNCING ON THE ROUGH TERRAIN, TIPPE							

A/C Reg. No. N9024C Time (Lc1) - 1430 AST File No. - 31 2/05/89 WRANGELL, AK A/C Reg. No. N9024C

Phase of Operation TAKEOFF - GROUND RUN

Occurrence #1 DRAGGED WING, ROTOR, POD, OR FLOAT

Finding(s)

- 1. WEATHER CONDITION GUSTS
- 2. TERRAIN CONDITION ROUGH/UNEVEN
- 3. AIRCRAFT HANDLING INADEQUATE PILOT IN COMMAND
- 4. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PLT'S FAILURE TO PROPERLY COMPENSATE FOR THE WIND DURING TAKEOFF ON UNSUITABLE TERRAIN. CONTRIBUTING TO THE ACCIDENT WERE THE TERRAIN CONDITIONS AND GUSTING WINDS.

(GENERAL AVIATION) IC USE	Aircraft Damage SUBSTANTIAL	Fata	Injuries N Serious M	; linor None
IC USE	SUBSTANTIAL	Fata		
IC USE	-		() Serious M	linor None
IC USE			_	
	Fire	Crew C	-	0 (1
FR 91	NONE	Pass C) _. 0	0 0
UVERING 				
		•		
		0-320 E		
			Stall Warning S	ystem - NO
		ING-CARBURETOR		
Rated Po	wer - 150 HP	_		
n				
Itinerary		Airpo	rt Proximity	
BRIEFING Last Depar	rture Point	OFF	AIRPORT/STRIP	
SAME AS	ACC/INC			
Destinatio	n	Airpor	t Data	
LOCAL				
		Run	way Ident - N/	Α
ATC/Airspace	е	Run	way Lth/Wid - N/	Α
Type of F	light Plan - NONE	Run	way Surface - N/	A
Type of C	learance - NONE	Run	way Status - N/	Α .
Type Apch,	/Lndg - NONE			
GHT	•			
Age - 40	Medical	Certificate - VA	LID MEDICAL-NO WA	IVERS/LIMIT
Biennial Flight	Review	Flight Time	(Hours)	
		al - 1597	Last 24 Hr	s - 1
Months Since	e - 5 Mak	e/Model- 1250	Last 30 Da	ys- 15
Aircraft Typ	oe - PA-18 Ins	strument- UNK/NR	Last 90 Da	ys- 57
	Mu 1	ti-Eng - UNK/NR	Rotorcraft	- UNK/NR
E 5 5				
	IXED Number Ei Engine T Rated Por Itinerary BRIEFING Last Depai SAME AS Destination LOCAL ATC/Airspace Type of F Type of C Type Apch GHT Age - 40 Biennial Flight Current Months Since Aircraft Type	Eng Make/Model - LYCOMING (IXED Number Engines - 1 Engine Type - RECIPROCAT Rated Power - 150 HP Itinerary BRIEFING Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - NONE GHT Age - 40 Medical Biennial Flight Review Current - YES Tot Months Since - 5 Mak Aircraft Type - PA-18 Ins	Eng Make/Model - LYCOMING 0-320 E Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 150 HP The state Departure Point OFF SAME AS ACC/INC Destination Airport LOCAL Run ATC/Airspace Run Type of Flight Plan - NONE Run Type of Clearance - NONE Run Type Apch/Lndg - NONE GHT Age - 40 Medical Certificate - VA Biennial Flight Review Flight Time Current - YES Total - 1597 Months Since - 5 Make/Model 1250 Aircraft Type - PA-18 Instrument UNK/NR Multi-Eng - UNK/NR	Eng Make/Model - LYCOMING 0-320 ELT Installed/Acti IXED Number Engines - 1 Stall Warning S Engine Type - RECIPROCATING-CARBURETOR Rated Power - 150 HP Itinerary Airport Proximity OFF AIRPORT/STRIP SAME AS ACC/INC Destination Airport Data LOCAL Runway Ident - N/ ATC/Airspace Runway Lth/Wid - N/ Type of Flight Plan - NONE Runway Status - N/ Type Apch/Lndg - NONE GHT Age - 40 Medical Certificate - VALID MEDICAL-NO WA Biennial Flight Review Current - YES Total - 1597 Last 24 Hr Months Since - 5 Make/Model - 1250 Last 30 Da Aircraft Type - PA-18 Instrument UNK/NR Last 90 Da Multi-Eng - UNK/NR Rotorcraft

2/06/89 A/C Reg. No. N7049 Time (Lcl) - 1620 AST File No. - 12 ILIAMNA,AK Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING Finding(s) 1. WEATHER CONDITION - HIGH WIND 2. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND 3. WEATHER CONDITION - GUSTS 4. COMPENSATION FOR WIND CONDITIONS - NOT ATTAINED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S FAILURE TO COMPENSATE FOR THE GUSTY WIND CONDITIONS AND TO MAINTAIN CONTROL OF THE AIRPLANE. CONTRIBUTING
TO THE ACCIDENT WAS THE GUSTY WINDS.

File No 60 2/09/89 NOME	,AK A/C	Reg. No. N73771	Т	ime (Lcl) -	1425 AS	Γ
Basic Information						
Type Operating Certificate-ON-DEMAND A	IR TAXI Aircr	aft Damage		Injur	ies	
	SUBS	STANTIAL	Fatal	Serious	Minor	None
Type of Operation -BUSINESS	Fire	Cr	ew O	. 1	0	0
Flight Conducted Under -14 CFR 91	NONE	Pa	ss 0	0	0	0
Accident Occurred During -DESCENT						
Aircraft Information						
Make/Model - CESSNA 207	Eng Make/Model -	CONTINENTAL IO-520	F ELT	Installed/#	ctivated	- YES/YES
Landing Gear - TRICYCLE-FIXED	Number Engines -	1	5	tall Warnir	ng System	- YES
Max Gross Wt - 3800	Engine Type -	RECIP-FUEL INJECTE	D			
No. of Seats - 8	Rated Power -	300 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFIN		nt		RPORT/STRIF	-	
Method - N/A	COUNCIL, AK					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	NOME, AK		7.1. POL C D			
Wind Dir/Speed- 135/010 KTS	HOPE, AN		Punkay	Ident -	N/A	
Visibility - 3.000 SM	ATC/Airspace			Lth/Wid -		
	TTERED Type of Flight Pla	n - COMPANY (VED)		Surface -		
Lowest Sky/Crodds - UNK/NR SCA	Type of Clearance			Status -		
Obstructions to Vision- BLOWING SNOW	,,	- FORCED LANDING		Jtatus	14/ A	
	Type Apcil/ Lindy	- FUNCED LANDING	l			
Condition of Light - DAYLIGHT						
Personnel Information			_	•		
Pilot-In-Command	Age - 48	Medical Certifi	cate - VALID	MEDICAL-WA	IVERS/LI	ΛIΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	FI	ight Time (F	lours)		
COMMERCIAL, ATP, CFI	Current - YES		19000	Last 24	Hrs -	1
SE LAND, ME LAND	Months Since - 5	Make/Model-		Last 30	Days- U	NK/NR
	Aircraft Type - C-18			Last 90		83
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Multi-Eng -			aft - U	
Instrument Rating(s) - AIRPLANE						
Narrative						
E AIRPLANE TRANSPORT PILOT REPORTED THAT W						
ICE WITHIN A PERIOD OF ABOUT THREE MINUTES					1E	
E AIRPLANE IMPACTED ON A SNOW-COVERED MOUN						
	EIGHTH INCH LONG THREAD-L	IKE METAL SLIVER L	ODGED UNDER	THE LOW		
E AIRPLANE IMPACTED ON A SNOW-COVERED MOUN	EIGHTH INCH LONG THREAD-L	.IKE METAL SLIVER L	ODGED UNDER	THE LOW		

File No	60 2/09/89 	NOME, AK	A/C Reg. No. N73771	Time (Lcl) - 1425 AST
Occurrence #1 Phase of Operation	LOSS OF ENGINE P CRUISE - NORMAL	OWER(PARTIAL) - ME	CH FAILURE/MALF	
Finding(s) 1. FUEL SYSTEM,PUM	P - CONTAMINATION			
Occurrence #2 Phase of Operation	IN FLIGHT COLLIS DESCENT - EMERGE	ION WITH TERRAIN/W	JATER	
Finding(s) 2. TERRAIN CONDITI	ON - MOUNTAINOUS/H	ILLY		
Probable Cause				·

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PARTIAL LOSS OF POWER RESULTING FROM FUEL INTERRUPTION DUE TO A BLOCKAGE IN THE ENGINE FUEL PUMP LOW PRESSURE CHECK VALVE.

File No 27 2/15/89 SK	WENTNA, AK	A/C Reg. N	o. N35038	٦	ime (Lcl)	- 1415 AST	Г
Basic Information Type Operating Certificate-NONE (GEN	ERAL AVIATION)	Aircraft Dam	age		Inju	ries	
		SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -BUSINESS		Fire	Crew	, 0	0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	. 0	0	0	0
Accident Occurred During -LANDING		· ·					
Aircraft Information							
Make/Model - PIPER J-5	Eng Make/	Model - CONTINE	NTAL C-85-8	ELT	Installed/	Activated	- YES/NO
Landing Gear - TAILWHEEL-ALL FIXED	Number Er	gines - 1			itall Warni		
Max Gross Wt - 1450	Engine Ty	pe - RECIPRO	CATING-CARBUR	RETOR			
No. of Seats - 2	Rated Pow	ver ~ 85	HP				
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEF		ture Point			RPORT/STRI	P	
Method - N/A	CHUGIAK,						
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - VMC		CREEK, AK					
Wind Dir/Speed- CALM		,		Runway	Ident	- N/A	
Visibility - 150.0 SM	ATC/Airspace	•			Lth/Wid		
Lowest Sky/Clouds - CLEAR		ight Plan - NON	F .		Surface		
Lowest Ceiling - NONE		earance - NON			Status		
Obstructions to Vision- NONE		Lndg - VAL			014140	,	
Precipitation - NONE	Type Apeny	the the	LLI, ILKKAIN I	0220#1144			
Condition of Light - DAYLIGHT							
Pilot-In-Command	Age - 39	Medi	cal Certifica	ite - UNK/N	IR		
Certificate(s)/Rating(s)	Biennial Flight			ht Time (F			
PRIVATE	Current		Total -	252	***	4 Hrs -	0
SE LAND	Months Since		Make/Model-	123		0 Days-	Ö
32 2ts	Aircraft Typ		Instrument-		Last 9	,	4
						- ,	
Instrument Rating(s) - NONE							
Name to the second seco							
Narrative	TO 1 AND 11TO OUT FOUR	DDED DIDED E	4 7 D D L 4 M E . O M L 4	EDOZEN LA	VE 1815N TH	-	
HE 252 HOUR PRIVATE PILOT WAS ATTEMPTING						L	
EFT MAIN GEAR COLLAPSED, CAUSING SUBSTANT							
EAR ENCOUNTERED A SNOW BERM THAT WAS LARG							
HE PILOT RECOMMENDS A CLOSER INSPECTION O	F GROUND CONDITIONS	PRIOR TO LANDIN	G, AND NOT LA	NUING WHEN	I SNOW DRIF	IS	
RE VISIBLE FROM 100' AGL.							

File No. - 27 2/15/89 SKWENTNA, AK A/C Reg. No. N35038 Time (Lcl) - 1415 AST -----

Occurrence #1 Phase of Operation

MAIN GEAR COLLAPSED LANDING - ROLL

Finding(s)

- 1. TERRAIN CONDITION ROUGH/UNEVEN
- 2. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND

 3. LACK OF TOTAL EXPERIENCE TO THE COMMAND 3. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S SELECTION OF UNSUITABLE TERRAIN. A CONTRIBUTING FACTOR IS THE PILOT'S LACK OF EXPERIENCE IN OFF AIRPORT LANDINGS.

File No 15 2/19/89 CHUGI	AK,AK	A/C Reg. No. N	5312Q		ime (Lc1)	- 1430 AST	Γ
Basic Information Type Operating Certificate-NONE (GENERAL		ircraft Damage SUBSTANTIAL		Fatal	Inju Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	F	ire NONE	Crew Pass	0	0	0	1
Aircraft Information							
Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Number Engine	1 - LYCOMING O-: s - 1 - RECIPROCATI - 110 HP		9	Installed/Æ Stall Warnin		
Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure ELMENDORF AF			Airport ON AIF	Proximity RSTRIP		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM	Destination LOCAL		А		100D / Ident ·	- 01	
Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	ATC/Airspace Type of Flight Type of Cleara Type Apch/Lndg		ND GO	Runway	/ Lth/Wid · · / Surface · / Status ·	•	ERED
Personnel Information	A	Madia	0		MEDIOAL		/
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 28 Biennial Flight Revi	ew	Flight	Time (F			
PRIVATE SE LAND	Current - Months Since - Aircraft Type -	6 Make,	l - /Model- rument-		Last 24 Last 30 Last 90	Days-	0 3
Instrument Rating(s) - NONE							
Narrative HE 78 HOUR PRIVATE PILOT WAS ATTEMPTING A TOU KE OFF. AS THE POWER INCREASED, THE AIRPLANI KS UNABLE TO REGAIN COMPLETE DIRECTIONAL CON HE RUNWAY. THE NOSE GEAR COLLAPSED WHEN THE A OWN ON JANUARY 8, 1989, AND HAD APRX 11 HOUL GUST 31, 1988.	E VEERED QUICKLY TO T FROL, AND COLLIDED WI AIRPLANE STRUCK THE S	HE LEFT ON THE TH TWO SNOW BERI ECOND BERM. THE	ICY RUNWAY. MS AS HE WE PILOT STAT	HE REDU NT OFF 1 ED THAT	ICED POWER, THE LEFT SIONER HE HAD LAST	BUT DE OF	

File No. - 15 2/19/89 CHUGIAK, AK A/C Reg. No. N5312Q Time (Lcl) - 1430 AST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. TERRAIN CONDITION - ICY 2. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 3. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - GROUND RUN Occurrence #3 NOSE GEAR COLLAPSED Phase of Operation TAKEOFF - GROUND RUN ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL DURING A TOUCH AND GO LANDING. A CONTRIBUTING FACTOR IS THE PILOT'S LACK OF TOTAL FLIGHT EXPERIENCE.

Type Operating Certificate-NONE (GENERA		ft Damage			ries	
Towns of Owner things		ANTIAL	Fatal			None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE		ew 0	0	0	1
Accident Occurred During -MANEUVERING	NUNE	Pa	.55 0	0	U	,
Aircraft Information						
Make/Model - PIPER PA-18	Eng Make/Model - L			Installed/		
Landing Gear - SKI	Number Engines -			Stall Warni	ng System	- NO
Max Gross Wt - 1730		ECIPROCATING-CARB	URETUR			
No. of Seats - 2	Rated Power -	150 HP				
Environment/Operations Information	T. I. San and and			D		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary	_		Proximity IRPORT/STRI	Б	
Method - N/A	Last Departure Poin SAME AS ACC/INC	τ	UFF A	IKPUKI/SIKI	P	
Completeness - N/A	Destination		Airport	Nata		
Basic Weather - VMC	LOCAL		A II POI C	Data		
Wind Dir/Speed- CALM	EGOAL		Runwa	v Ident	- N/A	
Visibility - 80.0 SM	ATC/Airspace			y Lth/Wid	•	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		y Surface	•	
Lowest Ceiling - NONE	Type of Clearance		Runwa	y Status	- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information				·		
Pilot-In-Command	Age - 53	Medical Certifi	cate - VALI ight Time (O WAIVERS/	LIMII
Certificate(s)/Rating(s) PRIVATE	Biennial Flight Review Current - YES	Total -		Last 2	4 Hns -	4
SE LAND, SE SEA	Current - YES Months Since - 12	Make/Model-			O Days-	30
SE LAND, SE SEA	Aircraft Type - PA-18	mana, maa.		Last 9		30
	All clair Type TA 18	Tris tr dillerit	100	Lust 3	o buys	50
Instrument Rating(s) - NONE						
 Narrative						
Narrative PILOT LOST DIRECTIONAL CONTROL OF THE AIR	PLANE AT A LOW ALTITUDE TO	HE ATDDIANE CTAIL	ED AND CDAS	HED INTO A		

2/22/89 SULATNA RIVER, AK A/C Reg. No. N1243A Time (Lcl) - 1430 AST LOSS OF CONTROL - IN FLIGHT Occurrence #1 Phase of Operation MANEUVERING Finding(s) 1. STALL/MUSH - NOT IDENTIFIED - PILOT IN COMMAND 2. AIRCRAFT HANDLING - NOT MAINTAINED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING Finding(s) 3. OBJECT - TREE(S) ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN CONTROL OF THE AIRPLANE WHICH RESULTED IN A STALL.

-Basic Information						
Type Operating Certificate-NONE (GENER	AL AVIATION) Aircraf	t Damage		Inju	ries	
.) - - - - - - - - -		NTIAL .	Fatal	Serious		None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Accident Occurred During -TAKEOFF						
-Aircraft Information						
Make/Model - PIPER PA-11	Eng Make/Model - CC			Installed/		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1			tall Warni	ng System	- NO
Max Gross Wt - 1220		CIPROCATING-CARBUR	ETOR			
No. of Seats - 2	Rated Power -	90 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFIN			OFF AI	RPORT/STRI	Р	
Method - N/A	SAME AS ACC/INC			*		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - IMC	SAME AS ACC/INC		_			
Wind Dir/Speed- CALM		•			- N/A	
Visibility - 2.000 SM	ATC/Airspace			Lth/Wid		
Lowest Sky/Clouds - 500 FT	Type of Flight Plan			Surface		
	RCAST Type of Clearance		Runway	Status	- N/A	
Obstructions to Vision- FOG	Type_Apch/Lndg	- NONE				•
Precipitation - SNOW						
Condition of Light - DAYLIGHT						
-Personnel Information Pilot-In-Command	Age - 27	Medical Certifica	+o - VALID	MEDICAL -W	ATVEDS / LTM	117
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (F		AIVENS/ EII	
PRIVATE	Current - YES	Total -			4 Hrs -	4 .
SE LAND	Months Since - 8		46	Last 3		4
	Aircraft Type - PA-11				O Days-	4
Instrument Rating(s) - AIRPLANE						
-Narrative						
PILOT STATED THAT THE WEATHER WAS DETERI	DRATING DURING THE FLIGHT AN	ID HE ELECTED TO LA	ND ON A FR	OZEN LAKE.	THE	
OT THEN ELECTED TO GO-AROUND. DURING THE						

File No. - 16 2/23/89 IGIUGIG,AK A/C Reg. No. N78627 Time (Lcl) - 1720 AST

Occurrence #1
Phase of Operation

IN FLIGHT COLLISION WITH OBJECT

se of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

- TERRAIN CONDITION TREE(S)
- 2. AIRCRAFT HANDLING NOT MAINTAINED PILOT IN COMMAND
- 3. PERFORMANCE DATA NOT UNDERSTOOD PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN CONTROL OF THE AIRPLANE AND HIS FAILURE TO UNDERSTAND THE PERFORMANCE PARAMETERS OF HIS AIRPLANE.

File No 84 3/03/89	NCHORAGE, AK A/C	Reg. No. N9992Z		ime (Lcl) -	A	
Basic Information Type Operating Certificate-COMMUTER	Aircr	aft Damage		Injur		
Name of Carrier -TRAIL LA Type of Operation -NON SCHE	KE FLYING SER. SUBS	TANTIAL	Fatal	Serious	Minor	None
Flight Conducted Under -14 CFR	D,DOMESTIC,CARGO Fire 35 NONE	Cre Pas	_	0	0	1
Accident Occurred During -TAXI	35 NONE	ras	5 0	O	U	O
Aircraft Information						
Make/Model - CESSNA U-206G		CONTINENTAL IO-520-		Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines -			tall Warnir	ng Syst em	- YES
Max Gross Wt - 3600		RECIP-FUEL INJECTED				
No. of Seats - 4	Rated Power -	300 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS	Last Departure Poi	nt	ON AIR	PORT.		
Method - TELEPHONE	SEWARD, AK		Adamana D			
Completeness - PARTIAL, LMTD BY F			Airport D ANCHOR			
Basic Weather - VMC	SAME AS ACC/INC		_		32	
Wind Dir/Speed- 360/028 KTS Visibility - 40.0 SM	ATC/Airspace			Ident - Lth/Wid -		150
Lowest Sky/Clouds - 12000 FT		n - VED		Surface -		
Lowest Ceiling - NONE	Type of Clearance				DRY	
Obstructions to Vision- NONE	Type Apch/Lndg		Kui iwa y	Status	DIV.	
Precipitation - NONE	Type Aperly Endg	, J HAZ GITT 214				
Condition of Light - DAYLIGHT						
Pilot-In-Command	Age - 46	Medical Certific	ate - VALID	MEDICAL-NO	WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ght Time (H			
COMMERCIAL, ATP, CFI	Current - YES		27000	Last 24	Hrs -	1
SE LAND, ME LAND, SE SEA	Months Since - 5		1500	Last 30	Days-	65
	Aircraft Type - C-20		UNK/NR	Last 90	Days-	130
		Multi-Eng -	13000	Rotorcr	aft - U	NK/NR
Instrument Rating(s) - AIRPLAN	IE ···					
RING THE POST-LANDING TAXI, A STRONG LE	FT CROSSWIND LIFTED THE LEFT	WING CAUSING THE AT	RPLANE TO M	AKE AN		
CONTROLLED 270 DEGREE RIGHT TURN, DURIN	IG WHICH THE RIGHT WING TIP AN	D PROPELLER STRUCK	THE GROUND	THE		
NDS WERE REPORTED TO BE 28 KTS GUSTING						

File No. - 84 3/03/89 ANCHORAGE, AK A/C Reg. No. N9992Z Time (Lc1) - 0955 AST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAXI - FROM LANDING

Finding(s)

- 1. WEATHER CONDITION CROSSWIND
- 2. WEATHER CONDITION GUSTS
- 3. HAZARDOUS WEATHER ADVISORY DISREGARDED PILOT IN COMMAND
- 4. HAZARDOUS WEATHER ADVISORY DISREGARDED COMPANY/OPERATOR MGMT
- 5. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND ______

Phase of Operation TAXI - FROM LANDING

Occurrence #2 DRAGGED WING, ROTOR, POD, OR FLOAT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S AND COMPANY'S DISREGARD OF HAZARDOUS WEATHER CONDITIONS AND THE PILOT'S FAILURE TO MAINTAIN CONTROL OF THE AIRPLANE. CONTRIBUTING TO THE ACCIDENT WERE THE GUSTY CROSSWIND CONDITIONS.

	ILLA LAKE,AK	A/C Reg. No. N1	1292F	Ti	ime (Lcl) -	1130 AS	Т
Basic Information Type Operating Certificate-ON-DEMAND A: Name of Carrier -JIM & JULIE Type of Operation -NON SCHED,DO Flight Conducted Under -14 CFR 135 Accident Occurred During -MANEUVERING	OKONEK DMESTIC,PAX/CARGO F	Aircraft Damage SUBSTANTIAL ire NONE	Crew Pass		Injuri Serious O O	ies Minor O 1	None 1 1
Aircraft Information Make/Model - CESSNA A-185-F Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 3350 No. of Seats - 4	Number Engine	el - CONTINENTAL es - 1 - RECIP-FUEL I - 300 HP			nstalled/Actall Warning		
Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure SAME AS ACC, Destination ROHN RIVER, ATC/Airspace N BKN Type of Flight Type of Cleara Type Apch/Lndg	INC K : Plan - NONE ance - NONE		Airport Da Runway Runway Runway Runway	RPORT/STRIP ata Ident - Lth/Wid - Surface -		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP,CFI SE LAND,ME LAND,SE SEA Instrument Rating(s) - AIRPLANE	Age - 57 Biennial Flight Revi Current - Months Since - Aircraft Type -	ew YES Total 10 Make/ C-206 Instr	Flig	ht Time (Ho 11500 1000 1342	MEDICAL-WAI burs) Last 24 Last 30 Last 90 Rotorcra	Hrs - Days- Days-	4 23 23

File No. - 85 3/06/89 PUNTILLA LAKE,AK A/C Reg. No. N1292F Time (Lc1) - 1130 AST

Occurrence #1 ALTITUDE DEVIATION,UNCONTROLLED Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. TERRAIN CONDITION - MOUNTAINOUS/HILLY
2. AIRSPEED(VLOF) - REDUCED - PILOT IN COMMAND
3. WEATHER CONDITION - DOWNDRAFT
4. MANEUVER - IMPROPER - PILOT IN COMMAND
5. PREFLIGHT PLANNING/PREPARATION - POOR - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING - TURN TO REVERSE DIRECTION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO OBTAIN AN ADEQUATE AIRSPEED, THE TURN TO REVERSE COURSE MANEUVER PERFORMED AT THE REDUCED AIRSPEED AND POOR PREFLIGHT PLANNING. CONTRIBUTING TO THE ACCIDENT WERE THE MOUNTAINOUS TERRAIN AND THE DOWNDRAFT CONDITIONS.

			A/C Reg. No.	N9824X 	Time (Lcl) - 1130 AST				
Basic Information Type Operating Certificate-N	JONE (GENERAL	AVIATION)	Aircraft Damage		Fatal	Injur Serious	ies Minor	None	
	PERSONAL		Fire	Crew	0	0	0	1	
Flight Conducted Under -1 Accident Occurred During -L			NONE	Pass	0	0	0	0	
Aircraft Information									
Make/Model - CESSNA 185 Landing Gear - SKI/WHEEL		Eng Make/M Number Eng	odel - CONTINENTA	L IO-470-F		installed/A all Warnin			
Max Gross Wt - 3200			e - RECIP-FUEL	INJECTED	31	all warriin	y system	- 163	
No. of Seats - 4		Rated Powe		111020120					
Environment/Operations Informa	ation							·	
Weather Data		Itinerary	.		Airport F				
Wx Briefing - NO RECORD Method - N/A	OF BRIEFING	Last Depart			OFF AIR	PORT/STRIP			
Method - N/A Completeness - N/A		BIG LAKE, Destination	AK		Airport Da	**	-		
Basic Weather - VMC		SAME AS A	CC/TNC		A I POI C Da	ita			
Wind Dir/Speed- LIGHT AND	VARIABLE	SAME AS A	567 THC		Runway	Ident -	N/A		
Visibility - 10.0 S		ATC/Airspace			•	Lth/Wid -	•		
	EAR		ght Plan - NONE			Surface -			
Lowest Ceiling - NO	DNE		arance - NONE		Runway	Status -	N/A		
Obstructions to Vision- NO		Type Apch/L	ndg - FULL S	TOP					
Precipitation - NO	··-	`							
Condition of Light - DA	AYLIGHT								
Personnel Information Pilot-In-Command		Age - 45	Modical	Certificat	VALTO	MEDICAL WA	TVEDC /LIM	17.7	
Certificate(s)/Rating(s)		Biennial Flight R			it Time (Ho		IVERS/ LIM	11 1	
PRIVATE	•	Current	- NO Tota		711	Last 24	Hrs -	2	
SE LAND, SE SEA		Months Since		e/Mode1-		Last 30			
		Aircraft Type		trument-				12	
	ee -								

File No. - 34 3/07/89 SHELL LAKE, AK A/C Reg. No. N9824X Time (Lcl) - 1130 AST

Occurrence #1

ON GROUND COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING - ROLL

Finding(s)

- 1. TERRAIN CONDITION ROUGH/UNEVEN
- 2. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 3. TERRAIN CONDITION SNOWBANK
- 4. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND
- 5. LANDING GEAR, MAIN GEAR OVERLOAD
- 6. LANDING GEAR, MAIN GEAR SEPARATION

Occurrence #2 Phase of Operation LANDING - ROLL

NOSE OVER

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER INFLIGHT DECISION IN SELECTING UNSUITABLE TERRAIN ON WHICH TO LAND. CONTRIBUTING TO THE ACCIDENT WAS THE ROUGH/UNEVEN TERRAIN AND THE SNOWBANK.

File No 26 3,	/09/89	KASIGLUK, A	K	A/C Reg. No. N4257T			Time (Lcl) - 1530 A				Γ
-Basic Information								·			
Type Operating Certifica	te-COMMUT	ER		Aircra	t Damage			Inj	ur i	es	
Name of Carrier	-TIM CR	ACE		SUBST	NTIAL		Fatal	Serious	;	Minor	None
Type of Operation	-SCHEDUI	LED, DOMESTI	C, PASSENGER	Fire		Crew	0	0		0	1
Flight Conducted Under	-14 CFR	135		NONE		Pass	0	0		0	2
Accident Occurred During	-TAXI			,							•
-Aircraft Information											
Make/Model - PIPER PA	-32		Eng Make/Mo	del - L'	COMING IO-54	0-K1A5	ELT 1	nstalled	I/Ac	tivated	- YES/N
Landing Gear - TRICYCLE	-FIXED		Number Engi	nes -			St	all Warr	ing	System	- YES
Max Gross Wt - 3400			Engine Type	- RI	CIP-FUEL INJ	ECTED			_		-
No. of Seats - 6			Rated Power		300 HP						
-Environment/Operations Info	ormation-										
Weather Data			Itinerary				Airport F	roximity	,		
Wx Briefing - NO RECO	ORD OF BR	IEFING	Last Departu	re Poin	:		ON AIRS	TRIP			
Method - N/A		=	BETHEL, AK								
Completeness - N/A			Destination				Airport Da	ta			
Basic Weather - VMC			SAME AS AC	C/INC			KASIGLU	IK			
Wind Dir/Speed- 160/009	9 KTS						Runway	Ident	-	17	
Visibility - 30.0	·SM		ATC/Airspace				Runway	Lth/Wid	-	2400/	75
Lowest Sky/Clouds -	1500 F	T SCATTERED	Type of Flig	ht Plan	- COMPANY (V	FR)	Runway	Surface	-	SNOW	
Lowest Ceiling -	7000 F	T BROKEN	Type of Clea	rance	- NONE		Runway	Status	-	ICE COVI	ERED
Obstructions to Vision			Type Apch/Lr				_				
Precipitation	- NONE			_							
Condition of Light		Γ	•		·						
-Personnel Information											
Pilot-In-Command		Age	- 27		Medical Cer	tifica	te - VALID	MEDICAL-	NO 1	WAIVERS,	/LIMIT
Certificate(s)/Rating(s)	Bien	nial Flight Re	view		Flig	ht Time (Ho	urs) ·			
COMMERCIAL, CFI			Current	- YES	Total	-	1229	Last	24	Hrs -	3
SE LAND, ME LAND			Months Since Aircraft Type	- 3	Make/Mo		304	Last	30	Days-	105
			Aircraft Type	- PA-32	Instrum	ent-	106	Last	90	Days-	246
			C.		Multi-E	ng -					
Instrument Rating(s)	- AIRPL	ANE									
					,						
-Narrative											
PILOT HAD JUST LANDED AND A											

File No. - 26 3/09/89 KASIGLUK, AK A/C Reg. No. N4257T Time (Lc1) - 1530 AST

Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER
Phase of Operation TAXI - FROM LANDING

Finding(s)

1. TERRAIN CONDITION - SNOWBANK
2. AIRCRAFT HANDLING - IMPROPER - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADEQUATE VISUAL LOOKOUT WHICH RESULTED IN THE COLLISION WITH A SNOWBANK.

Danie T. Competing										
Basic Information Type Operating Certificate-NONE (GENERA	ι Δνταττον)	Aircraft Damage			Iniu	ıries				
Type operating our till loads hold (dentill)		SUBSTANTIAL	•	Fatal	Serious		None			
Type of Operation -PERSONAL		Fire	Crew	0	0	0	1.			
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	1			
Accident Occurred During -LANDING										
Aircraft Information										
Make/Model - CESSNA 185E		del - CONTINENTAL	IO-520-F		Installed/					
Landing Gear - SKI/WHEEL	Number Engi		*** '50755	S	tall Warni	ng System	- YES			
Max Gross Wt - 3350	Engine Type		INJECTED							
No. of Seats - 6	Rated Power	- 300 HP								
Environment/Operations Information	T 4 1			A 3	Dan established t					
Weather Data	Itinerary	Da tark			Proximity	· D				
Wx Briefing - NO RECORD OF BRIEFING				OFF AI	RPORT/STRI	.Р				
Method - N/A Completeness - N/A	STONEY RIN Destination	ER,AK	•	Airport D						
Basic Weather - VMC	LOCAL			A Import D	ala					
Wind Dir/Speed- CALM	LUCAL			Pupway	Ident	- N/A				
Visibility - 40.0 SM	ATC/Airspace				Lth/Wid					
Lowest Sky/Clouds - CLEAR		ht Plan - NONE			Surface					
Lowest Ceiling - NONE		rance - NONE			Status					
Obstructions to Vision- NONE		ida - FORCED	LANDING		• • • • • • • • • • • • • • • • • • • •	,				
Precipitation - NONE	.,,,									
Condition of Light - DAYLIGHT										
Personnel Information							/. -			
Pilot-In-Command Certificate(s)/Rating(s)	Age - 42 Biennial Flight Re			te - VALID nt Time (H		IO WALVERS	/LIMII			
PRIVATE	Current		1 -		Last 2		4			
SE LAND	Months Since	- 20 Make	/Model-	455	Last 3	30 Days-	15			
	Aircraft Type	- C-185 Inst	rument- i-Eng -	2	Last 9	υ Days-	20			
		Mult	1-Eng -	1						
Instrument Rating(s) - NONE										
-Narrative					 -					
PILOT INTENDED TO LAND ON THE FROZEN LAKE	BEFORE PROCEEDING	BACK TO HIS HOME	BASE, AS I	HE APPROAC	HED THE AR	REA				
THE FROZEN LAKE THE AIRPLANE RAN OUT OF FU										
R ROLLOUT THE AIRPLANE STRUCK A SNOWBANK.					- •					

File No	24 3/09/89	ALEXANDER LAKE,AK	A/C Reg. No. N70122	Time (Lcl) - 1845 AST
Occurrence #1 Phase of Operation		POWER(TOTAL) - NON-MECHANI	ICAL	
Finding(s) 1. FLUID,FUEL - EX 2. FUEL SUPPLY - 3. IN-FLIGHT PLANN	EXCEEDED - PILOT	IN COMMAND ROPER - PILOT IN COMMAND		
Occurrence #2 Phase of Operation		NCY		·
Occurrence #3 Phase of Operation		ION WITH TERRAIN/WATER		
Finding(s) 4. TERRAIN CONDITION 5. TERRAIN CONDITION	- · · · · · · · · · · · · · · · · · · ·		· .	
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER IN-FLIGHT PLANNING, DECISIONS WHICH RESULTED IN EXCEEDING THE AMOUNT OF FUEL AVAILABLE WHICH RESULTED IN FUEL EXHAUSTION.

	NKS, AK	A/C Reg.	No. N4433N	T	ime (Lcl)	- 1300 AST	. .
Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION)	Aircraft Da	_	Fatal		uries Minor	None
Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire NONE	Crew Pass	_	0	0	2
Make/Model - AERONCA 15AC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2070 No. of Seats - 2	Number Engi	- RECIPR	DCATING-CARBUR	S		Activated ing System	
Environment/Operations Information							·
Weather Data Wx Briefing - FSS Method - TELEPHONE	Itinerary Last Departu HEALY.AK	re Point		•	Proximity RPORT/STRI	ΙP	
Completeness - FULL Basic Weather - VMC	Destination FAIRBANKS,	AK		Airport D	ata		
Wind Dir/Speed- 020/003 KTS Visibility - 60.0 SM Lowest Sky/Clouds - CLEAR	ATC/Airspace Type of Flig			Runway	Ident Lth/Wid Surface		
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Filg Type of Clea Type Apch/Ln	rance - NO	NE		Status		
Personnel Information							
	Age - 28 Biennial Flight Re		ical Certifica Fliq	te - VALID ht Time (H		NO WAIVERS/	LTWII
COMMERCIAL, CFI	Current	- YES	Total -	560	Last 2		2
SE LAND, ME LAND	Months Since Aircraft Type	- 14 - PA-22	Make/Model- Instrument- Multi-Eng -	80 .	Last (30 Days- 90 Days-	5 10
Instrument Rating(s) - AIRPLANE							

A/C Reg. No. N4433N 3/16/89 FAIRBANKS.AK Time (Lcl) - 1300 AST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. CARBURETOR HEAT - IMPROPER USE OF - DUAL STUDENT 2. FUEL SYSTEM, CARBURETOR - ICE 3. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) 4. WEATHER CONDITION - CARBURETOR ICING CONDITIONS Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 5. TERRAIN CONDITION - ROUGH/UNEVEN

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE STUDENT PILOT'S INPROPER USE OF CARBURETOR HEAT AND THE INSTRUCTORS FAILURE TO PROPERLY SUPERVISE THE STUDENT ACTIONS WITHIN THE AIRPLANE.

Basic Information Type Operating Certificate-NONE (G	NERAL AVIATION)	Aircraft Da			Inju	ıries	
		SUBSTANTIA	L	Fatal	Serious	Minor	None
Type of Operation -PERSONAL		Fire	Cre	-	0 -	0	1
Flight Conducted Under -14 CFR 9	11	NONE	Pass	s 0	0	0	1
Accident Occurred During -TAKEOFF							
Aircraft Information							
Make/Model - CESSNA 180-A			ENTAL 0-470-L		Installed/		
Landing Gear - TAILWHEEL-ALL FIXE(!	Stall Warni	ng System	- YES
Max Gross Wt - 2650	Engine Typ		OCATING-CARBU	RETOR			
No. of Seats - 4	Rated Powe	r - 230	HP				
Environment/Operations Information	-						
Weather Data	Itinerary				Proximity		
Wx Briefing - FSS	Last Depart	ure Point		OFF A	[RPORT/STR]	Р	
Method - TELEPHONE	ANCHORAGE	, AK					
Completeness - WEATHER NOT PERTI	NENT Destination			Airport [Data		
Basic Weather - VMC	HEWETT LA	KE,AK					
Wind Dir/Speed- CALM						- N/A	
Visibility - 60.0 SM	ATC/Airspace				/ Lth/Wid		
Lowest Sky/Clouds - CLEAR		ght Plan - NO		Runway	/ Surface	- SNOW	
Lowest Ceiling - UNK/NR		arance - NO		Runway	/ Status	- SNOW - W	ET
Obstructions to Vision- NONE	Type Apch/L	ndg - NO	NE				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 51		ical Certifica			AIVERS/LIM	IT
Certificate(s)/Rating(s)	Biennial Flight R			ght Time (H			
PRIVATE	Current	- YES	Total -			4 Hrs -	1
SE LAND, SE SEA	Months Since		Make/Model-			O Days-	5
	Aircraft Type	- C-180A	Instrument-	7	Last 9	O Days-	14
Instrument Rating(s) - NONE							
Narrative							
PRIVATE PILOT WAS ATTEMPTING TO LAND							
W. DURING THE LANDING ROLL, THE AIRPLA							
THER LANDING IN THE TRACKS HE HAD JUST	MADE. A FEW SECONDS P	RIOR TO REACH	ING LIFT-OFF S	SPEED, THE	RIGHT MAIN		
HIT A COMPACTED SNOW MACHINE TRACK, O	AUSING THE PILOT TO LO	SE DIRECTIONA	L CONTROL. THE	PILOT WAS	UNABLE TO		
GAIN CONTROL AND THE AIRPLANE ULTIMATEL							
IEVES THAT THE ACCIDENT COULD HAVE BEE	N AVOIDED HAD HE REDUC	ED POWER AND	TURNED AROUND	IN HIS LAN	NDING TRACK	S	
OR TO ATTEMPTING THE TAKEOFF.							

File No	61 3/25/89	SKWENTNA, AK	A/C Reg. No. N9685B	Time (Lcl) - 1300 AST
Occurrence #1	LOSS OF CONTROL	- ON GROUND		
Phase of Operation	TAKEOFF - GROUND			
	NTROL - NOT MAINTAIN RAIN - SELECTED - P	NED - PILOT IN COMMAI ILOT IN COMMAND	ND	
Occurrence #2 Phase of Operation	NOSE OVER TAKEOFF - GROUND	RUN	·	
Probable Cause	·	·*		

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL OF THE AIRPLANE DURING THE TAKEOFF RUN. A CONTRIBUTING FACTOR TO THE ACCIDENT IS THE PILOT'S SELECTION OF AN UNSUITABLE LANDING/TAKEOFF SITE.

ION) Aircraft SUBSTAN Fire NONE	TIAL Cr	_	Serious O	ries Minor 1	None
SUBSTAN Fire	TIAL Cr	ew O	Serious O	Minor	
Fire	Cr	ew O	0		
			•	1	
NONE	Ра	SS ()			0
			0	0	0
Eng Make/Model - LYC	DMING 0-320	ELT	Installed/	Activated	- YES/YES
			tall Warni	ng System	- NO
		URETOR			
Rated Power -	150 HP				
inerary		Airport	Proximity		
Last Departure Point		OFF AI	RPORT/STRI	Р	
SELAWIK, AK					
estination	*.	Airport D	ata		
KOTZEBUE, AK					
				•	
		Runway	Lth/Wid	- N/A	
Type of Clearance -	NONE	Runway	Status	- N/A	
Type Apch/Lndg -	NONE				
34				O WAIVERS/	'LIMIT
al Flight Review	F1				
rrent - YES	Total -				4
nths Since - 1	Make/Model-	880			
rcraft Type - C-185	Instrument-	21	Last 9	O Days-	36
	Number Engines - 1 Engine Type - REC Rated Power inerary Last Departure Point SELAWIK,AK estination KOTZEBUE,AK C/Airspace Type of Flight Plan - Type of Clearance - Type Apch/Lndg - 34 al Flight Payiew	Number Engines - 1 Engine Type - RECIPROCATING-CARB Rated Power - 150 HP inerary Last Departure Point SELAWIK, AK estination KOTZEBUE, AK C/Airspace Type of Flight Plan - VFR Type of Clearance - NONE Type Apch/Lndg - NONE	Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 150 HP inerary	Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 150 HP inerary Last Departure Point SELAWIK, AK estination KOTZEBUE, AK C/Airspace Type of Flight Plan - VFR Type of Clearance - NONE Type Apch/Lndg - NONE Medical Certificate - VALID MEDICAL-N al Flight Payley Medical Certificate - VALID MEDICAL-N Flight Time (Hours)	Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 150 HP inerary Last Departure Point SELAWIK, AK estination KOTZEBUE, AK C/Airspace Type of Flight Plan - VFR Type of Clearance - NONE Type Apch/Lndg - NONE Medical Certificate - VALID MEDICAL-NO WAIVERS/ al Flight Payley Stall Warning System Stall Warning System Stall Warning System Stall Warning System Stall Warning System Stall Warning System Stall Warning System Stall Warning System Airport Proximity DFF AIRPORT/STRIP Runway Ident - N/A Runway Surface - N/A Runway Status - N/A Flight Time (Hours)

4/03/89 File No. - 81 KOTZEBUE, AK A/C Reg. No. N7085 Time (Lcl) - 1915 ADT . Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE - NORMAL Finding(s) 1. WEATHER CONDITION - SNOW 2. VFR FLIGHT INTO IMC - INTENTIONAL - PILOT IN COMMAND 3. WEATHER CONDITION - WHITEOUT 4. WEATHER EVALUATION - NOT OBTAINED - PILOT IN COMMAND 5. PREFLIGHT BRIEFING SERVICE - NOT OBTAINED - PILOT IN COMMAND 6. IN FLIGHT WEATHER ADVISORIES - NOT OBTAINED - PILOT IN COMMAND IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING - TURN TO REVERSE DIRECTION

Finding(s)

7. PROPER ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT CONTINUED FLIGHT INTO IFR CONDITIONS AND FAILED TO MAINTAIN THE ALTITUDE. CONTRIBUTING TO THE ACCIDENT
WAS THE PILOT'S FAILURE TO OBTAIN A WEATHER BRIEFING AND THE DETERIORATED WEATHER CONDITIONS WHICH WERE ENCOUNTERED.

File No 62 4/11/89 TRINI	TY LAKE,AK A/C Reg	J. No. N9850X	T	ime (Lcl)	- 1730 AD	Г
Basic Information Type Operating Certificate-NONE (GENERA				Inju	ıries	
	SUBSTAN	IAL	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	1
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 185	Eng Make/Model - CON	INENTAL IO-520			Activated	
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1		S	tall Warni	ng System	- YES
Max Gross Wt - 3350	Engine Type - REC	P-FUEL INJECTED				1
No. of Seats - 4	Rated Power - :	800 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS	 Last Departure Point 		OFF AI	RPORT/STRI	Р	
Method - TELEPHONE	ANCHORAGE, AK					
Completeness - WEATHER NOT PERTINENT	Destination		Airport Da	ata	•	
Basic Weather - VMC	SAME AS ACC/INC					
Wind Dir/Speed- 360/005 KTS			Runway	Ident	- N/A	
Visibility - 60.0 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	
Obstructions to Vision- NONE	Type Apch/Lndg -	VALLEY/TERRAIN FO	DLLOWING			
Precipitation - NONE		·		·		
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 47	ledical Certifica [.]	te - VALID	MEDICAL-N	O WAIVERS	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review	Fligh	nt Time (H	ours)		
PRIVATE	Current - YES	Total -	942	Last 2	!4 Hrs -	1
SE LAND, SE SEA	Months Since - 23		703	Last 3	0 Days-	7
	Aircraft Type - C-185	Instrument-	41	Last 9	00 Days-	12
Instrument Rating(s) - AIRPLANE						100
THE CHUMENT RATING(S) - ATRPLANE						
Narrative						
E PILOT WAS ATTEMPTING A LATE AFTERNOON LAN	DING AT AN OFF AIRPORT LANDI	NG SITE ON A SNOW	COVERED L	AKE. SHORT	LY	
TER TOUCH DOWN, THE RIGHT MAIN LANDING GEAR	SKI BECAME DETACHED FROM THE	GEAR LEG. THE GI	EAR LEG WE	NT THROUGH	1	
E SNOW AND INTO THE ICE BELOW, COLLAPSING T	HE RIGHT MAIN GEAR IN THE PRO	CESS. THE PILOT (REPORTED T	HAT THE SN	IOW	
NDITIONS WERE EXTREMELY WET, AND THAT DURIN	G THE LANDING ROLL THE RIGHT	MAIN SKI BECAME	MIRED IN T	HE HEAVY		
DW, ULTIMATELY CAUSING THE SKI ATTACHMENT B	OLTS TO FAIL AND ALLOWING TH	GEAR LEG TO STR	TKE THE TC	Ł.		

File No. - 62 4/11/89 TRINITY LAKE,AK A/C Reg. No. N9850X Time (Lc1) - 1730 ADT

Occurrence #1 MAIN GEAR COLLAPSED
Phase of Operation LANDING - ROLL

Finding(s)

1. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND

Occurrence #2 NOSE DOWN
Phase of Operation LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S SELECTION OF UNSUITABLE TERRAIN ON WHICH TO LAND.

Landing Gear - TRICYCLE-FIXED Number of Max Gross Wt - 1670 Engine No. of Seats - 2 Rated Position Research Res	Engines - 1 Type - REC ower arture Point AGE,AK	COMING 0-235	Crew Pass RBURETOR	St rport P		O O Activated ng System	
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING Aircraft Information Make/Model - CESSNA 152 Eng Make Landing Gear - TRICYCLE-FIXED Number I Max Gross Wt - 1670 Engine No. of Seats - 2 Rated Po Environment/Operations Information Weather Data Itinerary Wx Briefing - FSS Last Depa Method - TELEPHONE ANCHOR Completeness - WEATHER NOT PERTINENT Destination Basic Weather - VMC SAME AS Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspace	NONE	COMING 0-235	RBURETOR	O ELT I St	O nstalled/ all Warni 	O Activated ng System	O
Accident Occurred During -LANDING Aircraft Information Make/Model - CESSNA 152 Eng Make Landing Gear - TRICYCLE-FIXED Number I Max Gross Wt - 1670 Engine No. of Seats - 2 Rated Po Environment/Operations Information Weather Data Itinerary Wx Briefing - FSS Last Depa Method - TELEPHONE ANCHORA Completeness - WEATHER NOT PERTINENT Destination Basic Weather - VMC SAME AS Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspace	e/Model - LY(Engines - 1 Type - RE(ower	COMING 0-235	RBURETOR	ELT I St	nstalled/, all Warnin	Activated ng System	- YES/YI
Make/Model - CESSNA 152 Eng Make Landing Gear - TRICYCLE-FIXED Number of Max Gross Wt - 1670 Engine No. of Seats - 2 Rated Po Environment/Operations Information Weather Data Itinerary Wx Briefing - FSS Last Depa Method - TELEPHONE ANCHORA Completeness - WEATHER NOT PERTINENT Destination Basic Weather - VMC SAME AS Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspace	Engines - 1 Type - REC ower	CIPROCATING-CA	RBURETOR	St rport P	all Warni	ng System	
Landing Gear - TRICYCLE-FIXED Number I Max Gross Wt - 1670 Engine No. of Seats - 2 Rated Po Environment/Operations Information Weather Data Itinerary Wx Briefing - FSS Last Depa Method - TELEPHONE ANCHORA Completeness - WEATHER NOT PERTINENT Destination Basic Weather - VMC SAME AS Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspace	Engines - 1 Type - REC ower	CIPROCATING-CA	RBURETOR	St rport P	all Warni	ng System	
Max Gross Wt - 1670 Engine No. of Seats - 2 Rated Po Environment/Operations Information Weather Data Itinerary Wx Briefing - FSS Last Depa Method - TELEPHONE ANCHORA Completeness - WEATHER NOT PERTINENT Destination Basic Weather - VMC SAME AS Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspace	Type - REC ower - 	CIPROCATING-CA	 А і	 rport P	roximity		- YES
No. of Seats - 2 Rated Po Environment/Operations Information Weather Data Itinerary Wx Briefing - FSS Last Depa Method - TELEPHONE ANCHORA Completeness - WEATHER NOT PERTINENT Destination Basic Weather - VMC SAME AS Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspace	ower - 		 А і	rport P		 D	
Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM Itinerary Last Department ANCHORA Destination SAME AS ASTE ASTE ASTE ASTE ASTE ASTE ASTE ASTE	AGE, AK on					 -	
Wx Briefing - FSS Last Department	AGE, AK on					>	
Method - TELEPHONE ANCHOR Completeness - WEATHER NOT PERTINENT Destination Basic Weather - VMC SAME AS Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspace	AGE, AK on			OFF AIR	PORT/STRII	D	
Completeness - WEATHER NOT PERTINENT Destination Basic Weather - VMC SAME AS Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspace	on [']						
Basic Weather - VMC SAME AS Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspac			A	port Da	+-		
Wind Dir/Speed- 090/010 KTS Visibility - 30.0 SM ATC/Airspac	3 400/1110		ATT	port ba	la		
				Runwa∨	Ident	- N/A	
Lowest Sky/Clouds - 4000 ET SCATTERED Type of I					Lth/Wid		
)	Runway	Surface	- N/A	
Lowest Ceiling - 5500 FT OVERCAST Type of (Runway	Status	- N/A	
	h/Lndg -	- FORCED LANDII	NG				•
Precipitation - NONE Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command Age - 24		Medical Certi				O WAIVERS/	LIMIT
Certificate(s)/Rating(s) Biennial Flight			Flight T				_
	- YES	Total		_	Last 2		2
	ce - 5 ype - PA-34	Make/Mode Instrumen	i = 15 t - 1	1	Last 30 Last 90	Days-	28 63
Africalti	ype	Multi-Eng			Last 90	J Days-	U.S
Instrument Rating(s) - NONE							
Narrative							
			ON THE				

7 4/17/89	KENAI,AK	A/C Reg. No. N6479L	Time (Lcl) - 1159 ADT
		IECHANICAL	
	- IMPROPER - PILOT	IN COMMAND	
	NCY		· · · · · · · · · · · · · · · · · · ·
NOSE OVER LANDING - FLARE/	TO 110 120 111		
-	LOSS OF ENGINE PODESCENT - NORMAL AUSTION NING/PREPARATION FORCED LANDING	LOSS OF ENGINE POWER(TOTAL) - NON-M DESCENT - NORMAL AUSTION NING/PREPARATION - IMPROPER - PILOT FORCED LANDING DESCENT - EMERGENCY	LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL DESCENT - NORMAL AUSTION NING/PREPARATION - IMPROPER - PILOT IN COMMAND FORCED LANDING DESCENT - EMERGENCY

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PREFLIGHT PLANNING AND PREPARATION BY THE PILOT WHICH RESULTED IN FUEL EXHAUSTION.

File No 79 4/22/89	ANCHORAGE, AK	A/C Reg. No.	N90918	Time (Lcl) - 13	30 ADT
-Basic Information Type Operating Certificate-NONE	(GENERAL AVIATION)	Aircraft Damage		Injuries	: linor None
Type of Operation -PERSO Flight Conducted Under -14 CF Accident Occurred During -LANDII	R 91	Fire NONE	Crew (Pass (0 1 0 1
-Aircraft Information Make/Model - PIPER PA-18 Landing Gear - TAILWHEEL-ALL FI Max Gross Wt - 1750 No. of Seats - 2	(ED Number Eng	odel - LYCOMING C ines - 1 e - RECIPROCAT r - 180 HP		LT Installed/Acti Stall Warning S	
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 060/006 KTS Visibility - UNK/NR Lowest Sky/Clouds - 4000 Lowest Ceiling - 7000 Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIG	Itinerary RIEFING Last Depart SAME AS A Destination LOCAL ATC/Airspace FT SCATTERED Type of Fli FT OVERCAST Type Apch/L	CC/INC ght Plan - NONE	ON Airpor ELM Rur Rur Rur Rur Rur	ort Proximity AIRPORT It Data EENDORF Iway Ident - Os Iway Lth/Wid - 10 Iway Surface - AS Iway Status - DR	000/ 200 PHALT
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND, SE SEA Instrument Rating(s) - AIRP	Biennial Flight R Current Months Since Aircraft Type	eview - YES Tot - 4 Mak - C-172 Ins	Flight Time al - 5200 e/Model- 150	Last 24 Hr	s - 1 ys- 14 ys- 30

File No	79 4/22/89	ANCHORAGE, AK	A/C Reg. No. N90918	Time (Lcl) - 1330 ADT
Occurrence #1 Phase of Operation 1. DIRECTIONAL CON	LOSS OF CONTROL LANDING - ROLL NTROL - NOT MAINTAI	- ON GROUND NED - PILOT IN COMMAND		
Occurrence #2 Phase of Operation	DRAGGED WING, RO LANDING - ROLL	TOR, POD, OR FLOAT		
Probable Cause-	·			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL OF THE AIRPLANE DURING THE LANDING ROLL.

	,9	N7652A	Time (Lcl) - 1513 /	ADT
NONE (GENERAL AVIATION)	Aircraft Damage	· · · · · · · · · · · · · · · · · · ·	Injuries	
	SUBSTANTIAL	Fatal	Serious Mino	r None
PERSONAL	Fire	Crew O	0 0	1
14 CFR 91	NONE	Pass 0	0 0	0
LANDING				
		AL O-470K ELT	Installed/Activate	ed – YES/N
LL FIXED Number			Stall Warning Syste	em - YES
Engine	Type - RECIPROCAT	TING-CARBURETOR		
Rated	Power - 230 HP			
nat i on	,			
Itinerary		Airport	Proximity	
OF BRIEFING Last De	parture Point	ON AI	RSTRIP	
SAME	AS ACC/INC			
Destinat	ion	Airport	Data	
SAME	AS ACC/INC	•		
TS	,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		=	
	ace			/ 60
			•	
			, ,	
AYLIGHT		= .		
Age - 36	Medical	Certificate - VALI	D MEDICAL-WAIVERS/	LIMIT
Biennial Flig	ht Review	Flight Time (Hours)	
Current	- YES Tot	tal - 674	Last 24 Hrs -	1
Months Si	nce - 11 Mak	ke/Model- 526	Last 30 Days-	15
Aircraft	Type - C-180 Ins	strument- UNK/NR	Last 90 Davs-	26
-		lti-Eng - UNK/NR	Rotorcraft -	UNK/NR
	14 CFR 91 LANDING	Eng Make/Model - CONTINENTALL FIXED Engine Type - RECIPROCAT Rated Power - 230 HP ation Itinerary OF BRIEFING Last Departure Point SAME AS ACC/INC Destination SAME AS ACC/INC TS SM ATC/Airspace 5000 FT SCATTERED Type of Flight Plan - NONE ONE Type Apch/Lndg - TRAFFI ONE AYLIGHT Age - 36 Medical Biennial Flight Review Current - YES Tot Months Since - 11 Make	14 CFR 91 LANDING Eng Make/Model - CONTINENTAL O-470K ELT Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 230 HP ation Itinerary	14 CFR 91 LANDING Eng Make/Model - CONTINENTAL 0-470K ELT Installed/Activat. Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 230 HP ation Itinerary OF BRIEFING Last Departure Point SAME AS ACC/INC Destination SAME AS ACC/INC TS SAME AS ACC/INC Airport Proximity ON AIRSTRIP SAME AS ACC/INC FAIRBANKS Runway Ident - 01 SM ATC/Airspace Runway Lth/Wid - 3200 S000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - ASPHAI ONE ONE ONE Type Apch/Lndg Type Apch/Lndg Age - 36 Biennial Flight Review Current - YES Months Since - 11 Make/Model - 526 Last 30 Days-

File No	80 4/24/89	FAIRBANKS, AK	A/C Reg. No. N7652A	Time (Lc1) - 1513 ADT
0	LOSS OF CONTROL	ON ORGUND		
Occurrence #1 Phase of Operation	LOSS OF CONTROL LANDING - ROLL	- UN GRUUND		
Finding(s) 1. DIRECTIONAL CON	TROL - NOT MAIŃTAI	NED - PILOT IN COMMAND		
Occurrence #2 Phase of Operation	NOSE OVER LANDING - ROLL			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL OF THE AIRPLANE DURING THE LANDING ROLL.

-Basic Information	W. T. I. D. A. T. D. D. A. F. T.						
Type Operating Certificate-AGRIC	JLTURAL AIRCRAFT	Aircraft Da SUBSTANTIA		Fatal	Injur Serious		None
Type of Operation -AERIA	_ APPLICATION	Fire	Crew		0		1
Flight Conducted Under -14 CFF	₹ 137	NONE	Pass	0 -	O	0	. 0
Accident Occurred During -LANDII	NG 						
-Aircraft Information							
Make/Model - GRUMMAN G-164B		ake/Model - P&W R-					
Landing Gear - TAILWHEEL-ALL FIX		r Engines - 1			tall Warnin	g System	- UNK/NF
Max Gross Wt - 5200		e Type - RECIPR		ETOR			
No. of Seats - 1	Rated	Power - 600	HP				
-Environment/Operations Information						•	÷
Weather Data	Itinerar				Proximity		
Wx Briefing - NO RECORD OF BI		eparture Point		ON AIR	STRIP		
Method - N/A		ISBURG, AR					
Completeness - N/A Basic Weather - VMC	Destina LOCA	- •		Airport D	ata		
Wind Dir/Speed- 050/010 KTS	LUCA			Dumin	Ident -	UNK/NR	
Visibility - 12.0 SM	ATC/Airs	D 3CO			Lth/Wid -		
Lowest Sky/Clouds - 10000			NF		Surface -		D.F.
		f Clearance - NO				DRY	
Obstructions to Vision- NONE		pch/Lndq - FU			0		
Precipitation - NONE	21						
Condition of Light - DAYLIGH	нт .						
-Personnel Information							
Pilot-In-Command			ical Certifica			WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>		ght Review		nt Time (H			
COMMERCIAL	Current		Total -		Last 24	Hrs -	1
SE LAND	Months S	ince - 12 Type - C-150	Make/Model- Instrument- UI Multi-Eng - UI	8604	Last 30	Days- UNI	K/NR
	Aircraft	Type - C-150	Instrument- U	NK/NR	Last 90	Days- UN	K/NR
	1		Multi-Eng - U	NK/NR	ROTORCE	aft - UNI	K/NR.
Instrument Rating(s) - NONE							
-Narrative PILOT SAID THAT HE WAS RETURNING TO	A PRIVATE LDC STRI	D AFTER COMPLETING	AN AEDTAL ADD	TCATION O	DEDATION		
ING THE LANDING ROLL, THE LEFT BRAKE							

3/01/89 HARRISBURG, AR A/C Reg. No. N3627D Time (Lc1) - 0840 CST File No. - 70 Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation LANDING - ROLL Finding(s) 1. LANDING GEAR, NORMAL BRAKE SYSTEM - INOPERATIVE 2. HYDRAULIC SYSTEM, LINE - FAILURE, TOTAL 3. BRAKES(NORMAL) - NOT POSSIBLE - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - OPEN FIELD ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE HYDRAULIC LINE WHICH RENDERED THE BRAKE SYSTEM INOPERATIVE.

File No 72 3/02/89 GR	FFITHVILLE,AR	A/C Reg. No. N6610Q		[ime (Lcl) -	1530 CS1	Г
-Basic Information Type Operating Certificate-AGRICULTUF		ircraft Damage		Injur	ies	
		SUBSTANTIAL	Fatal	Serious	Minor	None
Type of Operation -INSTRUCTION			Crew O	0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pass 0	0	0	0
Accident Occurred During -LANDING						
-Aircraft Information	_					
Make/Model - GRUMMAN G-164B		1 - P&W R-985-AN1		Installed/Ad		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engine			Stall Warning	g System	- YES
Max Gross Wt - 4500 No. of Seats - 1	Engine Type Rated Power	- RECIPROCATING-CA	KROKETOK			
NO. OF SeatS - I	Rated Power	- 450 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEF			ON AIR	RSTRIP		
Method - N/A	GRIFFITHVILL	E,AR	A			
Completeness - N/A Basic Weather - VMC	Destination SAME AS ACC/	TNC	Airport [Јата		
Wind Dir/Speed- 130/005 KTS	SAME AS ACC/	INC	Pupua	/ Ident -	36	
Visibility - 7.0 SM	ATC/Airspace			/ Lth/Wid -		100
Lowest Sky/Clouds - UNK/NR	Type of Flight	Plan - NONE		Surface -		
	ERCAST Type of Cleara			Status -		31(1
Obstructions to Vision- NONE	Type Apch/Lndg	- STOP AND GO				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 38	Medical Certi	ficate - VALI	MEDICAL-WA	IVERS/LIN	MIT
Certificate(s)/Rating(s)	Biennial Flight Revi		Flight Time (
COMMERCIAL		YES Total		Last 24		2
SE LAND	Months Since -			Last 30		29
	Aircraft Type -	C-150 Instrumen	t- UNK/NR	Last 90	Days-	112
		Multi-Eng	- UNK/NR	Rotorcra	art - UN	NK/NR
Instrument Rating(s) - NONE						
PLT SAID THAT WHILE PRACTICING TO'S AND	LDGS ON A GRASS STRIP	HE ENCOUNTERED A SO	FT SPOT AND W	S UNARLE TO		
THE AIRCRAFT FROM NOSING OVER. THE NEW						
IAL APPLICATION OPERATION AND WAS NOT IN			- 	=		
=						

File No. - 72 3/02/89 GRIFFITHVILLE, AR A/C Reg. No. N6610Q Time (Lc1) - 1530 CST

Occurrence #1 NOSE OVER
Phase of Operation LANDING - ROLL

Finding(s)

1. TERRAIN CONDITION - SOFT
2. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO ASSURE SUITABLE TERRAIN WAS BEING USED FOR THE LANDING.

File No 94 3/10/89 WYNNE	A, AR	/C Reg. No. N66020	Т	ime (Lcl) -	0800 CS	Т
Basic Information Type Operating Certificate-AGRICULTURAL		craft Damage		Injur		
		STROYED	Fatal	Serious	Minor	None
Type of Operation -AERIAL APPLI			Crew O	0	0	1
Flight Conducted Under -14 CFR 137 Accident Occurred During -STANDING	ON	GROUND	Pass 0	0	0	0
Aircraft Information						
Make/Model - GRUMMAN G-164A	Eng Make/Model	- P&W R-1340-AN1	ELT	Installed/A	ctivated	- NO -N/
Landing Gear - TAILWHEEL-ALL FIXED		- 1		itall Warnin	g System	- YES
Max Gross Wt - 4500	Engine Type	- RECIPROCATING-CA	RBURETOR			
No. of Seats - 1	Rated Power	- 600 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING	·	pint	ON AIR	STRIP		
Method - N/A	WYNNE, AR					
Completeness - N/A	Destination		Airport D	ata		7
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- 360/005 KTS			Runway	Ident -	26	
Visibility - 15.0 SM	ATC/Airspace		Runway	Lth/Wid -	2000/	60
Lowest Sky/Clouds - CLEAR	Type of Flight P	lan - NONE	Runway	Surface -	GRASS/TI	JRF
Lowest Ceiling - NONE	Type of Clearance	e - NONE	Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE	·			
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 46		ficate - VALID		WAIVERS,	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review		Flight Time (+		•	
COMMERCIAL	Current - YES		- 5500	Last 24		0
SE LAND	Months Since - 19		1 - 4500	Last 30	Days-	5
	Aircraft Type - 7A0		t- 14	Last 90	Days-	10
		Multi-Eng	- UNK/NR	Rotorcr	aft - Ul	NK/NR
Instrument Rating(s) - NONE						
Narrative	UE ENGINE IN DEED DITTO					
E PLT SAID THAT WHILE ATTEMPTING TO START T GINE BACKFIRED AND CAUGHT FIRE. BEFORE THE	FIRE COULD BE EXTINGUISH	HED THE AIRCRAFT W	AS DESTROYED B	Y FLAMES.		
E LOCAL FIRE DEPT WAS CALLED AND RESPONDED. OM OTHER EQUIPMENT AND HANGAR TO PREVENT AD		ING THE FUEL TANK,	THE ACET WAS	PULLED AWAY		

File No. - 94 3/10/89 WYNNE,AR A/C Reg. No. N6602Q Time (Lc1) - 0800 CST

Occurrence #1 FIRE
Phase of Operation STANDING - STARTING ENGINE(S)

Finding(s)
1. ENGINE ASSEMBLY - FIRE
2. UNDETERMINED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN ENGINE FIRE DURING ENGINE START FOR UNDETERMINED REASONS.

----Probable Cause----

File No 148 3/11/89 STU	TGART, AR	/C Reg. No. N9	874	Т	ime (Lc1)	- 1530 CS	
-Basic Information Type Operating Certificate-AGRICULTURA	L AIRCRAFT Air	craft Damage			Iniu	ries	
Type operating our tri reads management		BSTANTIAL		Fatal	Serious		None
Type of Operation -AERIAL APPI			Crew	0	0	1	0
Flight Conducted Under -14 CFR 137 Accident Occurred During -MANEUVERING	NO i	NE	Pass	0	0	0	0
-Aircraft Information							
Make/Model - GRUMMAN G-164A	Eng Make/Model	- P&W R-1340-A	N1	ELT	Installed/	Activated	- NO -N/
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines	- 1		S	tall Warni	ng System	- YES
Max Gross Wt ~ 4500	Engine Type			ror		0 ,	
No. of Seats - 1	Rated Power	- 600 HP					
-Environment/Operations Information	·						
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFI		oint .			RPORT/STRI	Р	•
Method - N/A	STUTTGART, AR				, •	•	
Completeness - N/A	Destination		,	Airport D	ata		
Basic Weather - VMC	LOCAL			STUTTE			
Wind Dir/Speed- 220/010 KTS	200/12					- N/A	
Visibility - 10.0 SM	ATC/Airspace				Lth/Wid		
Lowest Sky/Clouds - CLEAR	Type of Flight P	lan - NONE			Surface		
Lowest Ceiling - NONE	Type of Clearance					- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg		ANDING	Kariway	Status	147.6	
Precipitation - NONE	Type Apelly Ellag	· TOROLD L	ANDING				
Condition of Light - DAYLIGHT				*			
-Personnel Information							
Pilot-In-Command	Age - 27	Medical C	ertificate	e - VALID	MEDICAL-N	O WAIVERS	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		Flight	t Time (F			
COMMERCIAL	Current - YE	S Total	_	306	Last 2	4 Hrs -	9
SE LAND	Months Since - 1	Make/	Model-	35	Last 3	O Da∨s-	35
	Aircraft Type - C-	172RG Instr	ument-	11	Last 9	O Days-	35
	•						
Instrument Rating(s) - NONE							
-Narrative							
PILOT REPORTED THAT AS HE WAS LINING UP	TO MAKE HIS FIRST SWATH	RUN. THE ENGIN	E LOST PO	VER. ALSO	. HE STATE	D	
T AS THE AIRCRAFT WAS LOSING ALTITUDE AND	POWER, IT GOT TO ABOUT	TELEPHONE POLE	HEIGHT.	THEN IT S	TALLED AND		
LIDED WITH THE TERRAIN AT A STEEP ANGLE.							
SHEARED, WHICH RESULTED IN THE LOSS POWE							
	,						
TILIZER, WHEN IT CRASHED.							

File No 1	48 3/11/89	STUTTGART, AR	A/C Reg. No. N9874	Time (Lcl) - 1530 CST
Occurrence #1 Phase of Operation	LOSS OF ENGINE F	OWER(TOTAL) - MECH F RIAL APPLICATION	AILURE/MALF	
Finding(s) 1. ENGINE ASSEMBLY				
Occurrence #2 Phase of Operation		RN TO LANDING AREA (EMERGENCY)	
Finding(s) 2. LOAD JETTISON -	NOT PERFORMED - P	ILOT IN COMMAND		
Occurrence #3 Phase of Operation		- IN FLIGHT	•	·
Finding(s) 3. AIRSPEED - NOT 4. STALL - INADVER		MMAND		
Occurrence #4 Phase of Operation	MANEUVERING	ION WITH TERRAIN/WAT		
Probable Cause				·
The National Transpo	rtation Safety Boa	rd determines that th	he Probable Cause(s) of this accid	lent was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE ENGINE BLOWER ASSEMBLY DRIVE SHAFT, WHILE MANEUVERING AT LOW ALTITUDE, AND FAILURE OF THE PILOT TO MAINTAIN ADEQUATE AIRSPEED, WHICH RESULTED IN A STALL BEFORE HE COULD LAND.

Brief of Accident

File No 183 3/13/89 FISHER			No. N7701V 		ime (Lcl) - 		
-Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION)	Aircraft Da	_		Injur		
		SUBSTANTIA		Fatal			None
Type of Operation -AERIAL APPLIC Flight Conducted Under -14 CFR 91	ATION	Fire	Cre	-	0	0	1
Accident Occurred During -MANEUVERING		NONE	Pass	s 0		O	U
·Aircraft Information					3		
Make/Model - CALLAIR A9-B			NG IO-540-B1C		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engir			9	itall Warnir	g System	- NO
Max Gross Wt - 3600	Engine_Type		FUEL INJECTED				
No. of Seats - 1	Rated Power	- 290	HP 				
-Environment/Operations Information							÷
Weather Data	Itinerary	- D			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departur FISHER,AR	e Point		UFF A.	RPORT/STRIP	•	
Completeness - N/A	Destination			Airport [12+2		
Basic Weather - VMC	LOCAL			Airport	ala		
Wind Dir/Speed- 210/007 KTS	LOCAL			Runway	/ Ident -	N/A	
Visibility - 4.000 SM	ATC/Airspace				Lth/Wid -		
	BKN Type of Fligh	t Plan - NO	NF.			N/A	
Lowest Ceiling - NONE	Type of Clear					N/A	
	Type Apch/Lnc					•.	
Precipitation - NONE	21	J					
Condition of Light - DAYLIGHT							
-Personnel Information							
	Age - 18 Biennial Flight Rev		ical Certifica Flig	ght Time (F	lours)		LIMIT
PRIVATE		YES	Total -		Last 24		5
SE LAND	Months Since -		Make/Model-	50	Last 30	Days-	45
	Aircraft Type -	C-152	Instrument- Multi-Eng -	1	Last 90 Rotorcr	Days-	50
	•		Multi-Eng -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE				•			
-Narrative							
LE PERFORMING AN AERIAL APPLICATION LOW PAS							
T ENGINE POWER AND MADE AN EMERGENCY LDG. P				HT ENGINE M	MAGNETO HAD		
LED CAUSING THE ENGINE FAILURE. THE PILOT W	AC NOT OUAL TETED FO	0 44 050 40	7 000				

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File No 18	3/13/89	FISHER, AR	A/C	Reg. No. N7	701V	Time	(Lc1) - 1745 CS	г
Occurrence #1 Phase of Operation	LOSS OF ENGINE PO MANEUVERING - AER	WER(TOTAL) - MECH F IAL APPLICATION	AILURE/MALF					
Finding(s) 1. IGNITION SYSTEM	•)					
Occurrence #2 Phase of Operation	FORCED LANDING							
Occurrence #3 Phase of Operation	IN FLIGHT COLLISI LANDING	ON WITH TERRAIN/WAT	ER					
Finding(s) 2. TERRAIN CONDITION	DN - NONE SUITABLE							
Probable Cause	-			New York				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE ENGINE MAGNETO RESULTING IN ENGINE FAILURE.

化氯化铵 化二氯磺基甲基甲基甲基磺基甲基甲基

File No 149 4/13/89 OSCE	OLA,AR A/C	A/C Reg. No. N7245 Time (Lc1) - 0640 CDT				
Basic Information Type Operating Certificate-AGRICULTURA Type of Operation -AERIAL APPL	SUBST.	ft Damage ANTIAL	Fatal Crew O	Injuries Serious Minor O 1	None O	
Flight Conducted Under -14 CFR 137 Accident Occurred During -MANEUVERING	NONE	Р	Pass 0	0 0	ŏ	
Aircraft Information Make/Model - GRUMMAN G-164A	Eng Make/Modèl - Pa			Installed/Activated	NO N/A	
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 4500 No. of Seats - 1	Number Engines - Engine Type - R		Ş	Stall Warning System	- YES	
Environment/Operations Information						
Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A	Itinerary - NO RECORD OF BRIEFING Last Departure Point - N/A OSCEOLA,AR			Proximity RPORT/STRIP		
Completeness - N/A Basic Weather - VMC	Destination LOCAL	Airport Data				
Wind Dir/Speed- 040/005 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 25000 FT SCA Lowest Ceiling - NONE Obstructions to Vision- NONE	ATC/Airspace TTERED Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	Runway Runway	/ Ident - N/A / Lth/Wid - N/A / Surface - N/A / Status - N/A		
Precipitation - NONE Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 22	Modical Contif	icoto VALTE	MEDICAL-NO WAIVERS	/L TMTT	
Certificate(s)/Rating(s)	Biennial Flight Review		light Time (F		/ LIMIII	
COMMERCIAL	Current - YES	Total	- 600	Last 24 Hrs -	7	
SE LAND	Months Since - 11 Aircraft Type - BE-24	Make/Model	- 240	Last 30 Days-	80	
	Aircraft Type - BE-24	R Instrument Multi-Eng	- 10 - 0	Last 30 Days- Last 90 Days- Rotorcraft -	150 0	
Instrument Rating(s) - NONE						
Narrative HE PLT SAID THAT WHILE PERFORMING AN AERIAL CFT WAS GOING UNDER THE WIRES, THE MAIN GEA HOUGHT THAT HAVING A DIRTY WINDSHIELD WHILE ONTRIBUTED TO THE ACCIDENT.	APPLICATION OPERATION, HE R	ATTEMPTED TO FLY SOIL, THEN THE A	UNDER SOME F	R. THE PLT SAID HE		

4/13/89 File No. - 149 OSCEOLA, AR A/C Reg. No. N7245 Time (Lc1) - 0640 CDT

Occurrence #1 Phase of Operation MANEUVERING - AERIAL APPLICATION

IN FLIGHT COLLISION WITH TERRAIN/WATER

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. WINDOW, FLIGHT COMPARTMENT WINDOW/WINDSHIELD DIRTY(FOGGY)
- 3. LIGHT CONDITION SUNGLARE
- 4. OBJECT WIRE, TRANSMISSION
- 5. CLEARANCE MISJUDGED PILOT IN COMMAND

Occurrence #2

NOSE OVER

Phase of Operation OTHER

Finding(s)

6. TERRAIN CONDITION - SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT, AND HIS MISJUDGEMENT OF CLEARANCE BETWEEN THE AIRPLANE, WIRES, AND THE GROUND DURING THE AERIAL APPLICATION MANEUVER. FACTORS RELATING TO THE ACCIDENT WERE: THE DIRTY WINDSHIELD, SUNGLARE, TRANSMISSION LINE (WIRES), AND SOFT TERRAIN.

File No 189 1/15/89 TUCSO	N, AZ	A/C Reg. No. N61LM Time			ime (Lc1) - 1104 MST		
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)		Injuries				
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING		DESTROYED Fire NONE	Pass	Fatal 1 0		Minor O O	None 0 0
Aircraft Information Make/Model - MURPHEY VANCRAFT 532 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 550 No. of Seats - 1		Model - ROTAX 532LC gines - 1 pe - RECIPROCATIN			Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 006/004 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	TUCSON,A Destination LOCAL ATC/Airspace Type of Fl Type of Cl	Z	A	OFF AI Airport D Runway Runway Runway	Ident - Lth/Wid - Surface -	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND GYROPLANE Instrument Rating(s) - NONE	Current Months Since	Review	Certificate Flight - 3 Model- rument- UNK i-Eng - UNK	e - VALID : Time (H 3200 89 :/NR	MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotorcr	*	
Narrative RING A PLEASURE FLIGHT, THE GYROCOPTER COLL RRAIN. THE WEATHER AT THE TIME OF THE ACCID ILURES OR MALFUNCTIONS WAS FOUND. A WITNESS ROCOPTER TO DESCEND JUST BEFORE IMPACT, AS TNESS SAID IT APPEARED THAT THE GYROCOPTER	ENT WAS CLEAR AND REPORTED THAT TH IF THE PILOT WAS	VISIBILITY WAS 50 M E ENGINE SOUNDED "FI ATTEMPTING TO AVOID	MILES. NO E NE" AND TH CONTACT WI	VIDENCE NAT HE OB	OF MECHANIC SERVED THE		

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE LOOKOUT BY THE PILOT DURING UNWARRANTED LOW FLIGHT.

Basic Information Type Operating Certificate-NONE (GE	NERAL AVIATION) Aircr	aft Damage		Injur	ies	
· · · · · · · · · · · · · · · · · · ·		TANTIAL	Fatal	Serious		None
Type of Operation -NON SCHE		Cre	w O	0	0	1
Flight Conducted Under -14 CFR 1 Accident Occurred During -MANEUVER		Pas	s 0	0	0	, O
accident occurred buring -maneover						
Aircraft Information	5		0 M . ELT	T		V=5 (1)
Make/Model - CESSNA T207A		CONTINENTAL TSIO-52				
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3800	Number Engines -	RECIP-FUEL INJECTED		tall Warnin	g System	- YES
No. of Seats - 2	Engine Type - Rated Power -	310 HP				
No. or seats	Rated Power	310 HF				
Environment/Operations Information				D		
Weather Data Wx Briefing - FSS	Itinerary Last Departure Poi	nt		Proximity RPORT/STRIP		
Method - TELEPHONE	TUBA CITY.AZ	nic .	. UFF AI	KPUKI/SIKIP		
Completeness - UNK/NR	Destination		Airport D	ata		•
Basic Weather - VMC	PAGE, AZ		A.I. por c b			
Wind Dir/Speed- 011 KTS	,,,,,,		Runway	Ident -	N/A	
Visibility - 20.0 SM	ATC/Airspace		Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - N/A	Type of Flight Pla	n - COMPANY (VFR)	Runway	Surface -	N/A	
Lowest Ceiling - 600 FT	OVERCAST Type of Clearance	- VFR	Runway	Status -	N/A	
Obstructions to Vision- HAZE	Type Apch/Lndg	- NONE				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 22	Medical Certific			IVERS/LII	MIT
Certificate(s)/Rating(s)	Biennial Flight Review		ght Time (F			
COMMERCIAL, CFI	Current - YES	Total -		Last 24		2
SE LAND, ME LAND	Months Since - 3	• • • • •		Last 30		73
	Aircraft Type - PA-3			Last 90	Days-	266
		Multi-Eng -	814			
Instrument Rating(s) - AIRPLAN	E					
This is different Ratiffig(3) ATRI LAN						
			DOACT LAVED	A FLOCK O	F BIRDS	
Narrative	NG THE ATRPLANE AT AROUT 500	FT AGI UNDER AN OVE				
	THE PILOT TOOK EVASIVE ACTION	TO AVOID A COLLISI	ON. AS HE A	TTEMPTED TO	RESUME	
	THE PILOT TOOK EVASIVE ACTION PROXIMITY TO THE TERRAIN. SUB	TO AVOID A COLLISICSEQUENTLY, THE VERT	ON. AS HE A ICAL STABIL	TTEMPTED TO	RESUME ED WITH	

File No. - 160 1/17/89 PAGE,AZ A/C Reg. No. N6347H Time (Lc1) - 0900 MST

Occurrence #1
Phase of Operation

IN FLIGHT COLLISION WITH OBJECT

Phase of Operation MANEUVERING

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. OBJECT BIRD(S)
- 3. MANEUVER EXCESSIVE PILOT IN COMMAND
- 4. OBJECT WIRE, TRANSMISSION
- 5. VISUAL LOOKOUT INADEQUATE PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT PLANNING/DECISION BY THE PILOT AND HIS INADEQUATE VISUAL LOOKOUT (FAILURE TO SEE-AND-AVOID THE OBSTRUCTION). FACTORS RELATED TO THE ACCIDENT WERE: THE BIRDS, THE PILOT'S EXCESSIVE MANEUVER, AND THE TRANSMISSION LINE.

Basic Information							
Type Operating Certificate-NONE (GENERAL	•	rcraft Damage JBSTANTIAL	-	atal	Injur Serious		None
Type of Operation -PERSONAL	Si Fir		Crew	1	0	Minor O	None O
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	NO)NE	Pass	1	0	0	0
Aircraft Information Make/Model - LEHMAN/JERRELL VANS RV-4	Eng Make/Model	- LYCOMING 0-32	O-D3G	ELT T	nstalled/Ad	stivated	- VES-UN
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1500 No. of Seats - 2	Number Engines			St	all Warning		
Environment/Operations Information							
Weather Data	Itinerary				roximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure F SAME AS ACC/IN			OFF AIR	PORT/STRIP		
Completeness - N/A	Destination	••	Air	port Da	ita	•	
Basic Weather - VMC	LOCAL				A AIRPARK		
Wind Dir/Speed- 002/004 KTS Visibility - 50.0 SM	ATC/Airspace				Ident - Lth/Wid -	19	36
Lowest Sky/Clouds - 12000 FT SCATI		Plan - NONE			Surface -		30
Lowest Ceiling - NONE	Type of Clearand					DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE					
Precipitation - NONE Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 37		rtificate -			WAIVERS/	LIMIT
Certificate(s)/Rating(s) PRIVATE	Biennial Flight Review Current - UN		Flight T - 30			Hrs - UN	k/NR
SE LAND	Months Since - UN		odel- UNK/N	n	1 + 20	Davis UN	ız /ND
	Aircraft Type - UN	NK/NR Instru	ment- UNK/N Eng - UNK/N	R	Last 90	Days- UN aft - UN	K/NR
Instrument Rating(s) - NONE							
 Narrative							
NG A LOCAL FLIGHT JUST AFTER TAKEOFF, THE DXIMATELY 5-7 FEET AGL. AT THE END OF THE ROLLED TO THE LEFT. THE NOSE PITCHED DOWN	RUNWAY, THE AIRPLANE W I AND THE AIRPLANE DESC	VENT INTO A STEE CENDED IN A SPIN	P CLIMB TO UNTIL COLL	200-300 ISION W	FEET AGL		
VIDENCE OF MECHANICAL FAILURES OR MALFUNCT	TIONS OF THE AIRPLANE V D/88. THE PILOT WAS ALS				T TIME OF	119	

File No. - 140 1/22/89 TUCSON,AZ A/C Reg. No. N44ME Time (Lcl) - 1230 MST

Occurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. JUDGEMENT - POOR - PILOT IN COMMAND

2. MANEUVER - IMPROPER - PILOT IN COMMAND

3. STALL/SPIN - INADVERTENT - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation DESCENT - UNCONTROLLED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: POOR JUDGEMENT BY THE PILOT IN ATTEMPTING AND THEN IMPROPERLY PERFORMING AN AEROBATIC MANEUVER AFTER TAKEOFF, RESULTING IN A STALL/SPIN TO THE GROUND.

----Probable Cause----

One de la Commentation							
-Basic Information Type Operating Certificate-NONE (GENERA	I AVIATION) Air	craft Damage			Inju	ries	
Type operating our tri reate none (actions		BSTANTIAL		Fatal			None
Type of Operation -PERSONAL	Fir		Crew		0	1	0
Flight Conducted Under -14 CFR 91	NO	NE	Pass	0	1	0	0
Accident Occurred During -LANDING							_
-Aircraft Information							
Make/Model - WARWICK THORP T-18	Eng Make/Model		60-A1A		Installed/		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines			S	tall Warnir	ng System	- NO
Max Gross Wt - 1800	Engine Type		G-CARBURE	TOR			
No. of Seats - 2	Rated Power	- 180 HP					
-Environment/Operations Information	<u>.</u> .				_		
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEFING		oint		ON AIR	PORT		
Method - N/A	AGUILA, AZ			4			
Completeness - N/A Basic Weather - VMC	Destination C LOCAL			Airport D EAGLE			
Wind Dir/Speed- CALM	LUCAL					- UNK/NR	
Visibility - 60.0 SM	ATC/Airspace				Lth/Wid		60
Lowest Sky/Clouds - CLEAR	Type of Flight P	lan - NONE			Surface ·		50
Lowest Ceiling - NONE	Type of Clearanc				Status		
Obstructions to Vision- NONE	Type Apch/Lndg		PATTERN	,	•		
Precipitation - NONE	<i>,</i> ,	FULL STO					
Condition of Light - DAYLIGHT	,						
-Personnel Information	/						
Pilot-In-Command	Age - 58				MEDICAL-WA	AIVERS/LIM	IIT
Certificate(s)/Rating(s)	Biennial Flight Review			nt Time (H			
COMMERCIAL, CFI	Current - YE Months Since - 9	S Total	-	4900	Last 24	4 Hrs -	2
SE LAND, ME LAND	Months Since - 9	Make/	Model-	2500	Last 30	Days- UN	IK/NR
	Aircraft Type - C-	150 Instr	ument- UN	IK/NR	Last 90	Days-	30
		Multi	-Eng -	20	Rotorci	raft - UN	IK/NR
Instrument Rating(s) - AIRPLANE							
LE LANDING, THE AIRPLANE TRAVELED OVER A R	ISE IN THE DWY & VEEDED	TO THE RIGHT	THE PLT	ATTEMPTED	TO CORRECT	Г	
H LEFT RUDDER, BUT THE ACFT CONTINUED OFF						•	•
HANICAL PROBLEMS WERE FOUND.		511011					

File No. - 116 2/22/89 AGUILA, AZ A/C Reg. No. N9675Z Time (Lcl) - 1600 MST LOSS OF CONTROL - ON GROUND Occurrence #1 Phase of Operation LANDING - ROLL Finding(s) 1. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - ROUGH/UNEVEN 2. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 3. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 4. TERRAIN CONDITION - DITCH ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN DIRECTIONAL CONTROL, WHICH RESULTED IN THE AIRCRAFT VEERING OFF THE RUNWAY. FACTORS RELATED TO THE ACCIDENT WERE: UNEVEN RUNWAY & THE DITCH.

-Basic Information						
Type Operating Certificate-NONE (G	ENERAL AVIATION) Aircr	aft Damage		Inju	ries	
	SUBS	TANTIAL	Fatal	Minor	None	
Type of Operation -PERSONA	L Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR		Pass	. 0	0	0	3
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - MAULE M-5-210C		CONTINENTAL IO-360		Installed/		
Landing Gear - TAILWHEEL-ALL FIXE			S	itall Warni	ng System	- YES
Max Gross Wt - 2300		RECIP-FUEL INJECTED				
No. of Seats - 4	Rated Power -	210 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRI	•	nt	ON AIR	PORT		
Method - N/A	MEXICALI, MX		41			
Completeness - N/A	Destination		Airport D			
Basic Weather - VMC	SAME AS ACC/INC		CALEXI		LINIZ /NID	
Wind Dir/Speed- CALM Visibility - 15.0 SM	ATC/Airspace			Ident Lth/Wid	- UNK/NR	75
	SCATTERED Type of Flight Plan	N - VED		Surface		/5
Lowest Ceiling - 5000 FT					- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg		· · · · · · · · · · · · · · · · · · ·	514145	5.11	
Precipitation - NONE	Type Apolly 2.10g					
Condition of Light - DAYLIGHT						
Personnel Information	Age - 49	Medical Certifica	te - VALID	MEDICAL-W	AIVERS/LIM	MIT
Pilot-In-Command		Flic	ht Time (H	lours)	•	
	Biennial Flight Review					
Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL	Biennial Flight Review Current - YES	Total -		Last 2	4 Hrs -	5
<pre>Certificate(s)/Rating(s)</pre>		Total -			4 Hrs - O Days-	5 25
<pre>Certificate(s)/Rating(s) COMMERCIAL</pre>	Current - YES	Total - Make/Model-	1119	Last 3		
<pre>Certificate(s)/Rating(s) COMMERCIAL</pre>	Current - YES Months Since - 1	Total - Make/Model-	1119 26 124	Last 3	O Days-	25

File No. - 115 1/05/89 CALEXICO, CA A/C Reg. No. N9039E Time (Lcl) - 1615 PST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. MAINTENANCE - INADEQUATE - OTHER MAINTENANCE PSNL 2. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT - PERFORMED - PILOT IN COMMAND 3. LANDING GEAR, NORMAL BRAKE SYSTEM - BINDING (MECHANICAL) 4. DIRECTIONAL CONTROL - NOT POSSIBLE -5. GROUND LOOP/SWERVE - UNCONTROLLED -Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 6. TERRAIN CONDITION - ROUGH/UNEVEN ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A BINDING BRAKE SYSTEM TORQUE PLATE. FACTORS RELATED TO THE ACCIDENT WERE: INADEQUATE MAINTENANCE BY OTHER MAINTENANCE PERSONNEL, AND OPERATION OF THE AIRPLANE WITH A KNOWN EFFICIENCY BY THE PILOT.

 Basic Information Type Operating Certificate NONE (GENER 	RAL AVIATION) Aircraft	Damage		Inju	ries	
	DESTROYE		Fatal	Serious		None
Type of Operation -PERSONAL	Fire	Crew	1	0	0	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	ON GROUN	ID Pass	0	0	0	0
-Aircraft Information						
Make/Model - CESSNA 414	Eng Make/Model - CONT	INENTAL TSIO-520-	N ELT	[nstalled/	Activated	- YES/YE
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 2			tall Warnir	ng System	- YES
Max Gross Wt - 6500	Engine Type - RECI	P-FUEL INJECTED				
No. of Seats - 8	Rated Power - 3	110 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport I	Proximity		
Wx Briefing - FSS	Last Departure Point		OFF AI	RPORT/STŘI	>	
Method - UNK/NR	SANTA ANA,CA					
Completeness - FULL	Destination		Airport Da	ata		
Basic Weather - IMC	OAKLAND, CA		OAKLANI	INT'L		
Wind Dir/Speed- 010/004 KTS			Runway	Ident	- 27R	
Visibility - UNK/NR	ATC/Airspace		Runway	Lth/Wid	- 5453/	150
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan -			Surface		
Lowest Ceiling - OBSCURED	Type of Clearance -		Runway	Status	- DRY	
Obstructions to Vision- FOG	Type Apch/Lndg -	ILS-COMPLETE				
Precipitation - NONE						\
Condition of Light - DAYLIGHT						
Personnel Information		•				
Pilot-In-Command		ledical Certificat			D WAIVERS,	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		it Time (Ho			
PRIVATE	Current - YES	Total -		Last 2		2
SE LAND, ME LAND	Months Since - 11	Make/Model-		Last 3		
	Aircraft Type - PA-23	Instrument- Multi-Eng -	98 155	Last 90	O Days-	26
		March Eng	155			
Instrument Rating(s) - AIRPLANE						
ARRIVAL, THE PLT WAS CLRD FOR AN ILS RWY						
R NOTED THE ACFT HAD DSCNDD THRU 2900 FT						
AT 3300 FT. THE PLT ACKNOWLEDGED BY SAYIN						•
N HE CANCELED THE CLNC & TOLD THE PLT TO						
T OF THE ARPT. IMPACT OCCURRED WITH A 150	OO FT RIDGE AT ABOUT THE 1000 F	T LEVEL. NO PREIM	IPACT PART	FAILURE O	R	

File No. - 89 1/09/89 PLEASANTON,CA A/C Reg. No. N1672T Time (Lc1) - 1124 PST

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation APPROACH - IAF TO FAF/OUTER MARKER (IFR)

Finding(s)

- 1. IFR PROCEDURE IMPROPER PILOT IN COMMAND
- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION FOG
- 4. TERRAIN CONDITION MOUNTAINOUS/HILLY
- 5. MINIMUM DESCENT ALTITUDE NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO PROPERLY FOLLOW THE IFR (INSTRUMENT FLIGHT RULES) PROCEDURES BY NOT MAINTAINING THE MINIMUM DESCENT ALTITUDE FOR THAT SEQMENT OF THE APPROACH. THE WEATHER CONDITIONS AND MOUNTAINOUS TERRAIN WERE CONSIDERED TO BE RELATED FACTORS.

Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft D	amage		Inju	ries	
		SUBSTANTI		Fatal	Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire NONE	Cre Pas	-	0	0	1
Aircraft Information		<i></i>					
Make/Model - CESSNA TR182 Landing Gear - TRICYCLE-RETRACTABLE		/Model - LYCOM ngines - 1	ING 0-540		Installed/		
Max Gross Wt - 3100	Engine T		ROCATING-CARBL		tall Warni	ng system	- 152
No. of Seats - 4	Rated Poi	, ,	5 HP				
Environment/Operations Information	_						
Weather Data	Itinerary				Proximity	•	
Wx Briefing - FSS Method - TELEPHONE	Last Depai RENO,NV	rture Point		ON AIR	PORI		
Completeness - UNK/NR	Destinatio			Airport D	ata		
Basic Weather - IMC	OAKLAND			OAKLAN			
Wind Dir/Speed- 070/006 KTS	•			Runway	Ident	- 27R	
Visibility - 2.000 SM	ATC/Airspace	е			Lth/Wid		150
	T OBS Type of F				Surface		
Lowest Ceiling - NONE		learance - V			Status	- DRY	
Obstructions to Vision- HAZE Precipitation - NONE	Type Apch,	Lnag - I	RAFFIC PATTERN	N.			
Condition of Light - NIGHT(DARK)							
Personnel Information							
Pilot-In-Command	Age - 30		dical Certific			O WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s) COMMERCIAL</pre>	Biennial Flight Current	Review - YES	Fl. Total -	ight Time (⊦	lours) Last 2	4 Una	4
SE LAND ME LAND		- 1ES e - 9			Last 2 Last 3		10
SE EARD, ME EARD		oe - C-TR182			Last 9		35
		,,,,,	Multi-Eng -			, .	
Instrument Rating(s) - AIRPLANE							
IOR TO LANDING, THE PLT EXTENDED THE LANDI							
LUMINATED. THE PLT MANUALLY EXTENDED THE G							
E PLT VISUAL NOTED THAT THE MAIN GEAR WAS E TOWER AND THE CONTROLLER NOTED THAT IT A							
E TOWER AND THE CONTROLLER NOTED THAT IT A RPLANE, MAIN WHEELS FIRST, AND HELD THE NO							
RPLANE VEERED TO THE RT. THE PLT APPLIED B						HE	
RPLANE EXITED THE RWY AND NOSED OVER. THER							
E GEAR COLLAPSE. THE PLT RPTD THAT THE AIR	DI ANE HAD EVDEDTE	MCED A DREVIOU	S HADD I ANDING	2			

File No 169 1/17/89 OAKLAND	,CA A/C Reg. No. N539	98R Time (Lc1) - 0112 PST
Occurrence #1 NOSE GEAR COLLAPSED Phase of Operation LANDING - ROLL		
Finding(s) 1. LANDING GEAR,NOSE GEAR ASSEMBLY - PREVIOUS 2. MAINTENANCE,INSPECTION OF AIRCRAFT - INADE	DAMAGE	
The National Transportation Safety Board determ PREVIOUS DAMAGE DUE TO PREVIOUS HARD LANDING.		

-Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION) Aircraft	Damage		Injuries	
, , , , , , , , , , , , , , , , , , , ,	SUBSTAN			ous Minor	None
Type of Operation -PERSONAL	Fire	Crew	-	0 0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	NONE	Pass	0	0 0	1
-Aircraft Information					
Make/Model - PIPER PA-32R-301T	Eng Make/Model - LYC	MING TIO-540-S1AD		led/Activated	
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1		Stall W	arning System	- YES
Max Gross Wt 3617	Engine Type - REC				
No. of Seats - 6	Rated Power -	300 HP .			
-Environment/Operations Information					
Weather Data	Itinerary		Airport Proxim	ity	
Wx Briefing - NO RECORD OF BRIEFIN			ON AIRPORT		
Method - N/A	SAME AS ACC/INC				
Completeness - N/A	Destination	A	irport Data		
Basic Weather - VMC Wind Dir/Speed- CALM	VAN NUYS,CA		JOHN WAYNE	400	
Visibility - 20.0 SM	ATC/Airspace		Runway Ident	- 19R id - 5700/	150
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE		ce - ASPHALT	
Lowest Ceiling - NONE	Type of Clearance -		Runway Statu		
Obstructions to Vision- NONE		NONE	Kunway State	3 DK1	
Precipitation - NONE	Type Apolly Elling	110112			
Condition of Light - NIGHT(DARK)					
Pilot-In-Command	Age - 55	Medical Certificate	- VALID MEDIC	AL-WAIVERS/LI	MIT
	Biennial Flight Review		Time (Hours)		
Certificate(s)/Rating(s)	Current - YES	Total - 1		st 24 Hrs -	2
Certificate(s)/Rating(s) PRIVATE		Make/Model-	673 La	st 30 Days-	18
<pre>Certificate(s)/Rating(s)</pre>	Months Since - 7				
Certificate(s)/Rating(s) PRIVATE	Months Since - 7 Aircraft Type - PA-32R	Instrument- UNK	I/NR La	st 90 Days-	58
Certificate(s)/Rating(s) PRIVATE			I/NR La	st 30 Days- st 90 Days- torcraft - U	

1/17/89 SANTA ANA,CA A/C Reg. No. N6913D A/C Reg. No. N6913D Time (Lc1) - 2345 PST File No. - 171

Occurrence #1 Phase of Operation TAKEOFF - GROUND RUN

ON GROUND COLLISION WITH OBJECT

Finding(s)

- 1. LIGHT CONDITION DARK NIGHT
- 2. PREFLIGHT PLANNING/PREPARATION POOR PILOT IN COMMAND
- HABIT INTERFERENCE PILOT IN COMMAND
- 4. OBJECT AIRPORT FACILITY
- 5. WRONG RUNWAY SELECTED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: POOR PREFLIGHT PLANNING AND PREPARATION BY SELECTING THE WRONG RUNWAY DESPITE NOTAM AND ATIS INFORMATION INDICATING THE RUNWAY WAS CLOSED.

File No 170 1/18/89 SONOMA	,CA A/C Re	eg. No. N1058D	Т	ime (Lcl) -	1315 PST	
-Basic Information Type Operating Certificate-NONE (GENERAL		Damage		Injur		
Time of Openstian DEDCONAL	SUBSTAN		Fatal	Serious	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crev Pass	-	0	0	1
Accident Occurred During -LANDING	NONE	Pass	. 0	O	O	
-Aircraft Information						
Make/Model - CESSNA 190	Eng Make/Model - JAC		ELT	Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1			tall Warnin	g System	- YES
Max Gross Wt - 3150	Engine Type - REC		RETOR			
No. of Seats - 5	Rated Power -	275 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Point		ON AIR	PORT		
Method - N/A	SAME AS ACC/INC		A			
Completeness - N/A	Destination LOCAL		Airport D	ata VALLEY		
Basic Weather - VMC Wind Dir/Speed- CALM	LUCAL				16	
Visibility - 30.0 SM	ATC/Airspace			Lth/Wid -		65
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE		Surface -		03
Lowest Ceiling - NONE	Type of Clearance		•		DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -		,	010100	2	
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command /	Age - 39	Medical Certifica	te - VALID	MEDICAL-NO	WAIVERS/	LIMIT
	Biennial Flight Review	Flig	ht Time (H			
ATP,CFI	Current - YES				Hrs - UN	K/NR
SE LAND, ME LAND	Months Since - 6		110	Last 30 Last 90	Days-	4
	Aircraft Type - SD3-60	Instrument-		Last 90	Days-	63
and the second section of the second section is the second section of the second section in the second section of the second section is the second section of the second section in the second section is the second section of the second section of the second section is the second section of the second section of the second section is the second section of the section o		Multi-Eng -	580			
Instrument Rating(s) - AIRPLANE		. 4				
-Narrative						
LE PRACTICING TOUCH AND GO LANDINGS, DURING	THE LANDING ROLL. THE ATRE	LANE REGAN VEERIN	IG TO THE L	FFT. THE		
OT WAS UNABLE TO MAINTAIN DIRECTIONAL CONTRO					ГНЕ	
T MAIN GEAR BRAKE MECHANISM, REVEALED THAT A	A CLIP BROKE FREE AND JAMME	D RETWEEN THE DIS	C HOUSTNG	AND THE WHE	I HUB.	

File No. - 170 1/18/89 SONOMA, CA A/C Reg. No. N1058D Time (Lcl) - 1315 PST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. DIRECTIONAL CONTROL - NOT POSSIBLE -2. LANDING GEAR, NORMAL BRAKE SYSTEM - JAMMED Occurrence #2 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 3. TERRAIN CONDITION - DITCH ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

A JAMMED BRAKE MECHANISM RESULTING IN THE PILOT'S INABILITY TO MAINTAIN DIRECTIONAL CONTROL.

Basic Information Type Operating Certificate-NONE (GENERAL AVIA) Type of Operation -INSTRUCTIONAL	TION) Aircraft [SUBSTANT]) amage				
				Injur	ies	
Type of Operation -INSTRUCTIONAL			Fatal	Serious	Minor	None
Type of operation 1101/Rooffolial	Fire	Cre		0	0	2
Flight Conducted Under -14 CFR 91	NONE	Pas	· -	0	0	Ō
Accident Occurred During -LANDING	HONE	1 43	3 0	U	O	Ü
-Aircraft Information						
Make/Model - CESSNA 150H	Eng Make/Model - CONTI	INENTAL 0-200A	ELT :	Installed/A	ctivated	- YES/YE
Landing Gear - TRICYCLE-FIXED	Number Engines - 1		S.	tall Warning	g System	- YES
Max Gross Wt - 1600	Engine Type - RECIA	PROCATING-CARBU	RETOR			
No. of Seats - 2	Rated Power - 10	OO HP				
Environment/Operations Information						
	tinerary			Proximity		
	Last Departure Point		ON AIR	PORT		
Method - N/A	SAME AS ACC/INC					
	Destination		Airport Da			
Basic Weather - VMC	LOCAL		NAPA C			
Wind Dir/Speed- 080/008 KTS					18L	
	ΓC/Airspace			Lth/Wid -		75
	Type of Flight Plan - N			Surface -		
	Type of Clearance - \		Runway	Status -	DRY	
	Type Apch/Lndg - 1	TOUCH AND GO				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command Age -		edical Certific			WAIVERS/	LIMII
, <i>,</i> , ,	ial Flight Review		ght Time (Ho	•	11	_
	urrent - YES	Total -			Hrs -	
	onths Since - 10	Make/Model-	UNK/NR	Last 30	Days- UN	K/NR
A 1	ircraft Type - UNK/NR	Instrument-		Last 90	Days-	50
		Multi-Eng -	UNK/NR	ROTORCE	aft - UN	K/NR
Instrument Rating(s) - AIRPLANE						

File No 1	72 1/21/89 NAPA,CA	A/C Reg. No. N22988	Time (Lcl) - 1315 PST	
Occurrence #1 Phase of Operation	LOSS OF CONTROL - ON GROUND LANDING - ROLL			
2. REMEDIAL ACTION	AYED - DUAL STUDENT - DELAYED - PILOT IN COMMAND(CFI) TROL - NOT MAINTAINED - PILOT IN COMMAND	(CFI)	·	
Occurrence #2 Phase of Operation	ON GROUND COLLISION WITH TERRAIN/WATER LANDING - ROLL			
Finding(s) 4. TERRAIN CONDITI	ON - DITCH		•	
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE CFI'S DELAY IN ABORTING THE TAKEOFF, LEADING TO A LOSS OF DIRECTIONAL CONTROL.

-Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION) Ai	ircraft Damage			Injur	ies	
·		SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -PERSONAL		ire	Crew	0	0	1	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		IONE	Pass	0	0	3	0
-Aircraft Information							
Make/Model - PIPER PA-28-161		- LYCOMING 0-32			Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines				tall Warnin	ng System	- YES
Max Gross Wt - 2325		- RECIPROCATING	-CARBURE	TOR			
No. of Seats - 4	Rated Power	- 160 HP					
-Environment/Operations Information	Itinonany			Ainmont	Dnovimiti		
Weather Data Wx Briefing - FSS	Itinerary Last Departure	Doint	_		Proximity RPORT/STRIP	,	
Method - TELEPHONE	SAN MARTIN,CA			OFF AI	KPUKI/SIKIP		
Completeness - UNK/NR	Destination	•		Airport D	ata		
Basic Weather - VMC	OCEANO, CA			•	COUNTY		
Wind Dir/Speed- 350/002 KTS						N/A	
Visibility - 10.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - 20000 FT TH	IN BKN Type of Flight	Plan - VFR			Surface -		
Lowest Ceiling - NONE	Type of Clearar	nce - VFR		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LA	NDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT				. 			
-Personnel Information	\						
Pilot-In-Command	Age - 36				MEDICAL-NO	WAIVERS/	LIMII
<pre>Certificate(s)/Rating(s) PRIVATE</pre>	Biennial Flight Revie Current - Y	ew ∕55 - To+ol	Filgr	nt Time (F	Last 24	Lina	. 2
SE LAND	Months Since -		- 1 ado	89	Last 24 Last 30		26
SE LAND	Aircraft Type - F		ment-		Last 90	Days-	39
	All Clait Type - F	A 28 ITISCI W	inerit.	3	Rotorcr		4
					KO COI CI	u	7
Instrument Rating(s) - NONE							•
-Narrative						- · 	
RTLY AFTER TAKEOFF, THE ENGINE LOST PART	IAL POWER. THE PILOT ATT	EMPTED TO RELAND	AT THE	AIRPORT,	HOWEVER, TH	ΙE	
INE LOST POWER COMPLETELY AND AN EMERGEN	CY LANDING WAS MADE IN A	FIELD. INSPECTI	ON OF TH	HE ENGINE	REVEALED		
T A SPARK PLUG WAS LOOSE. THE REMAINING	DILIGS WEDE SEVEDELY LEAD	AND CARRON FOIL	ED THE	FNGINE WA	S SUCCESSEU	11 I V	

File No. - 175 1/30/89 SAN MARTIN, CA A/C Reg. No. N8163F Time (Lcl) - 1545 PST LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. IGNITION SYSTEM, SPARK PLUG - FOULED 2. MAINTENANCE, INSPECTION OF AIRCRAFT - INADEQUATE - OTHER MAINTENANCE PSNL 3. IGNITION SYSTEM SPARK PLUG - LOOSE Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - SOFT ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was ENGINE FAILURE DUE TO A LOOSE SPARK PLUG WITH THE REMINAING PLUGS FOULED WITH CARBON DEPOSITS.

File No 110 2/01/89 STRAT	HMORE,CA A/C Re	g. No. N2918W	Т	ime (Lcl) -	0941 PST	
Basic Information						
Type Operating Certificate-AGRICULTURAL				Injur		
	DESTROY			Serious	Minor	None
Type of Operation -AERIAL APPLI		Crew	0	1	0	0
Flight Conducted Under -14 CFR 137	NONE	Pass	0	0	0	0
Accident Occurred During -HOVER		Other	0	0	1	0
Aircraft Information						
Make/Model - BELL 47G-3B2	Eng Make/Model - LYC	OMING TVO-435-B1A	ELT	Installed/A	ctivated	- NO -N/
Landing Gear - SKID	Number Engines - 1		S	tall Warnir	ng System	- NO
Max Gross Wt - 3100	Engine Type - REC	IPROCATING-CARBURE	TOR .		•	
No. of Seats - 2	Rated Power -	280 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING				RPORT/STRIF)	
Method - N/A	SAME AS ACC/INC		J A1	M. 5M., 57MI		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL	,	in por c b	ata		
Wind Dir/Speed- VARIABLE/003 KTS	LOCAL		Punyay	Ident -	N/A	
Visibility - 5.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE	, ,	Surface -		
	Type of Clearance -		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg -	NONE				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command		Medical Certificate			IVERS/LIM	IT
Certificate(s)/Rating(s)	Biennial Flight Review	Fligh	t Time (H			
COMMERCIAL	Current - YES	Total - 16	6000	Last 24	Hrs -	4
SE LAND	Months Since - 12	Make/Model-	9000	Last 30	Days-	10
HELICOPTER	Aircraft Type - UNK/NR	Make/Model- S Instrument- UNA Multi-Eng - UNA	K/NR	Last 90	Days - UN	K/NR
		Multi-Eng - UN	(/NR	Rotorcr	aft - 1	2000
Instrument Rating(s) - NONE						
Narrative RING A HOVERING MANEUVER, AFTER THE HELICOP COUNTERED. SUBSEQUENTLY, THE EXTERNAL LOAD WN & IT COLLIDED WITH THE TRUCK. NO PREIMPA OKEN RIBS & A MINOR HEAD INJURY; A GROUND L	SWUNG & SNAGGED ON THE SERVI CT MECHANICAL FAILURE OR MAL	CE TRUCK. THE HELIC FUNCTION WAS REPOR	COPTER WA	S THEN PULL		

File No. - 110 2/01/89 STRATHMORE, CA A/C Reg. No. N2918W Time (Lcl) - 0941 PST

Phase of Operation HOVER

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Finding(s)

- 1. WEATHER CONDITION UNFAVORABLE WIND
- 2. WEATHER CONDITION GUSTS
- 3. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 4. OBJECT VEHICLE
- 5. CLEARANCE NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER COMPENSATION FOR WIND CONDITIONS BY THE PILOT, AND HIS FAILURE TO MAINTAIN CLEARANCE FROM THE SERVICE TRUCK. FACTORS RELATING TO THE ACCIDENT WERE: THE UNFAVORABLE (VARIABLE) AND GUSTY WIND CONDITIONS AND CLOSE PROXIMITY OF THE SERVICE VEHICLE.

File No 117 2/04/89 TRAC	Y,CA A/C Re	g. No. N51K	Τi	me (Lcl) -	1545 PST	
Basic Information Type Operating Certificate-NONE (GENER				Injur	ies	
	DESTROY	ED	Fatal	Serious	Minor	None
Type of Operation -FLT TEST	Fire	Crew	1	0	0	0
Flight Conducted Under -14 CFR 91	NONE	Pass	Ο	0	0	0
Accident Occurred During -APPROACH						
Aircraft Information						
Make/Model - WAR REPLICAS P-51	Eng Make/Model - HON	DA 1829CC	ELT I	nstalled/A	ctivated -	- NO -N/A
Landing Gear - TAILWHEEL-RETRACTABLE	MAINS Number Engines - 1			all Warnin		
Max Gross Wt - 2000		IPROCATING-CARBURE	TOR			
No. of Seats - 1	Rated Power -	104 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport F	rovimity		
Wx Briefing - NO RECORD OF BRIEFIN				PORT/STRIP		
Method - N/A	TRACY, CA		OFF AIR	PURI/SIRIP		
Completeness - N/A	Destination		Airport Da	+-		
Basic Weather - VMC	LOCAL		TRACY	la		
Wind Dir/Speed- CALM	LUCAL			T dont	20	
Wind Dir/Speed Calm Visibility - UNK/NR	ATO /A :		Runway		29	400
	ATC/Airspace	NONE		Lth/Wid -		100
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -			Surface -		
Lowest Ceiling - NONE	Type of Clearance -		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -	TRAFFIC PATTERN				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information	•					
Pilot-In-Command	Age - 43	Medical Certificat	e - VALID	MEDICAL-NO	WAIVERS/	_IMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Fligh	t Time (Ho	urs)		
PRIVATE	Current - UNK/NR	Total -	622	Last 24	Hrs - UN	K/NR
SE LAND	Months Since - UNK/NR	Make/Model-	9	Last 30	Days- UN	·/NR
	Aircraft Type - UNK/NR	Instrument- UN	K/NR	Last 90	Davs- UN	K/NR
	3.	Multi-Eng - UN	K/NR	Rotorcr	aft - UN	K/NR
Instrument Rating(s) - NONE						
Narrative		-				
JRING A LOCAL TEST FLIGHT, THE PILOT LOST C					ΤΟ	
SE. THE AIRPLANE COLLIDED WITH THE TERRAIN						
LERON CONTROL BELLCRANK WAS NOT INSTALLED						
PORTED SEEING BOTH AILERONS AND THE WINGS		EVIDENCE INDICATED	AILERON O	VERTRAVEL.	THE	
OCKPIT CONTROL STICK WAS NOT EQUIPPED WITH	CONTROL TRAVEL STOPS.					

File No. - 117 2/04/89 TRACY,CA A/C Reg. No. N51K Time (Lc1) - 1545 PST

Occurrence #1 Phase of Operation

LOSS OF CONTROL - IN FLIGHT

Phase of Operation APPROACH - VFR PATTERN - BASE TURN

Finding(s)

1. FLIGHT CONTROL, AILERON ATTACHMENT - IMPROPER

- 2. MAINTENANCE, MODIFICATION NOT CORRECTED PILOT IN COMMAND
- 3. FLIGHT CONTROL, AILERON FLUTTER
- 4. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE IMPROPER INSTALLATION OF THE AILERON CONTROLS OF THIS HOMEBUILT ACFT BY THE PILOT/MANUFACTURER WHICH LED TO THE INFLIGHT LOSS OF CONTROL OF THE AIRPLANE. CONTRIBUTING TO THE ACCIDENT WAS THE PILOT'S INEXPERIENCE IN THE AIRPLANE.

File No 75 2/19/89 CORO	DNA, CA	A/C Reg. No.	N69383	T	ime (Lcl) -	1210 PST	
Basic Information Type Operating Certificate-ON-DEMAND A Name of Carrier -LAS VEGAS F Type of Operation -NON SCHED, E Flight Conducted Under -14 CFR 135 Accident Occurred During -DESCENT	LYERS, INC.	Aircraft Damage DESTROYED Fire NONE	Crew Pass	Fatal 1 9	Injur Serious O O	ies Minor O O	None 0 0
Aircraft Information Make/Model - CESSNA 402B Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6300 No. of Seats - 10	Eng Make/Mo Number Engi Engine Type Rated Power	e - RECIP-FUEL			Installed/A tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - N/A Lowest Ceiling - OBSCURED Obstructions to Vision- UNK/NR Precipitation - UNK/NR Condition of Light - DAYLIGHT		NV CA ght Plan - VFR arance - VFR		OFF AIG irport Da Runway Runway Runway	Ident - Lth/Wid - Surface -	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP,CFI SE LAND,ME LAND	Age - 34 Biennial Flight Re Current Months Since Aircraft Type	eview - YES Tot - 4 Mak - C-402 Ins	al - 4 e/Model- trument-	Time (Ho		Hrs - Days-	1 25 41
Instrument Rating(s) - AIRPLANE		•					
Instrument Rating(s) - AIRPLANE	E PLT HAD RCVD A PREF URROUNDING MTNS OBSCU E, THE PLT WAS ADVISE GER SHOWED MTN PEAKS DESCRIBED A LOW CLOUD CE OF POWERED FLT AND	LT WX BRIEFING I JRED BY CLOUDS, A ED THAT SANTA ANA PROTRUDING THROU CEILING NR THE NO EVIDENCE OF	N WHICH HE W ND THAT VFR WAS REPORTI GH A SOLID C CRASH SITE A PREIMPACT CO	AS ADVISE FLT TO SA NG 1400 F LOUD LAYE ND CLOUD NTROL OR	ED OF LOW O ANTA ANA WA ET OVEST WI ER AND SHOW TOPS AT 50 ENGINE MAL	EILINGS S NOT TH 5 JED THE JOO FT. FUNCTION.	

File No. - 75 2/19/89 CORONA, CA A/C Reg. No. N69383 Time (Lcl) - 1210 PST IN FLIGHT ENCOUNTER WITH WEATHER Occurrence #1 Phase of Operation DESCENT - NORMAL Finding(s) 1. PREFLIGHT PLANNING/PREPARATION - IMPROPER - PILOT IN COMMAND 2. WEATHER FORECAST - DISREGARDED - PILOT IN COMMAND 3. IN FLIGHT WEATHER ADVISORIES - DISREGARDED - PILOT IN COMMAND 4. WEATHER CONDITION - LOW CEILING 5. VFR FLIGHT INTO IMC - INTENTIONAL - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - NORMAL Finding(s) 6. TERRAIN CONDITION - MOUNTAINOUS/HILLY

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO PROPERLY PREFLIGHT AND PLAN FOR FLIGHT AND HIS INTENTIONAL FLIGHT INTO IMC CONDITIONS. FACTORS CONTRIBUTING TO THE ACCIDENT WERE THE LOW CEILING CONDITIONS IN CONJUNCTION WITH THE MOUNTAINOUS TERRAIN.

----Probable Cause----

File No 188 2/22/89 COMPTO	DN,CA A/C Reg	g. No. N6972C	T	ime (Lc1) - 16	645 PST	
Basic Information Type Operating Certificate-NONE (GENERAL	_ AVIATION) Aircraft SUBSTAN	2	Fatal	Injuries Serious M	Minor	·None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	Fire ON GROUI	Crew ND Pass	-	0	1 0	0
Aircraft Information Make/Model - NORTH AMERICAN AT-6 Landing Gear - TAILWHEEL-RETRACTABLE MA Max Gross Wt - 5300 No. of Seats - 2	Engine Type - REC		S	Installed/Act tall Warning S		
Environment/Operations Information	Itinonony		Ainnont	Dnovimity		
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Point COMPTON,CA		OFF AI	Proximity RPORT/STRIP		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 260/008 KTS	Destination LOCAL			N Ident - 25		
Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	ATC/Airspace Type of Flight Plan - Type of Clearance - Type Apch/Lndg -		Runway	Lth/Wid - 3 Surface - AS Status - DR	SPHALT	60
Pilot-In-Command Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (H	ours)	·	
COMMERCIAL SE LÄND	Current - YES Months Since - 22 Aircraft Type - SNJ-5	Total - Make/Model- Instrument- Multi-Eng -	652 2338	Last 24 Hr Last 30 Da Last 90 Da Rotorcraft	ays- ays-	IK/NR 2 4 1
Instrument Rating(s) - NONE						
Narrative THE BEGINNING OF A LOCAL PLEASURE FLIGHT, CRUCK DURING A FORCED LANDING ON A RESIDENTIAL LINDER WAS CRACKED IN TWO PARTS. A METALLURGIOR TO THE FINAL BREAK. COMBUSTION BY-PRODUCTEA OF THE CRACKS.	AL STREET. INSPECTION OF THE GICAL EXAMINATION REVEALED TH	ENGINE REVEALED HAT THREE SEPARAT	THAT THE N	UMBER FIVE CRACKS EXISTED)	

File No 18	B8 2/22/89 COMPTON,CA	A/C Reg. No. N6972C	Time (Lc1) - 1645 PST
	LOSS OF ENGINE POWER(TOTAL) - MECH TAKEOFF - INITIAL CLIMB	FAILURE/MALF	
Finding(s) 1. ENGINE ASSEMBLY	CYLINDER - FATIGUE		
	FORCED LANDING DESCENT - EMERGENCY	·	
	IN FLIGHT COLLISION WITH OBJECT DESCENT - EMERGENCY		
Finding(s) 2. OBJECT - WIRE,TR	RANSMISSION		
Occurrence #4 Phase of Operation	ON GROUND COLLISION WITH OBJECT LANDING - ROLL		
Finding(s) 3. OBJECT - POLE			
Probable Cause		·	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FATIGUE CRACKS THAT EXISTED IN AN ENGINE CYLINDER.

File No 152 3/01/89 RIVER	DALE,CA A/C I	Reg. No. N8547H	Т	ime (Lcl) -	1251 PST	
-Basic Information Type Operating Certificate-AGRICULTURAL	AIRCRAFT Aircra	t Damage		Injur		
-	DESTRO	DYED	Fatal	Serious	Minor	None
Type of Operation -AERIAL APPLI		Cr	ew O	1	0	0
Flight Conducted Under -14 CFR 137	ON GRO	DUND Pa	ss 0	0	0	0
Accident Occurred During -MANEUVERING	·					
-Aircraft Information						
Make/Model - GRUMMAN G-164A	Eng Make/Model - P&			Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines -			Stall Warnir	g System	- YES
Max Gross Wt - 4500		CIPROCATING-CARB	URETOR			
No. of Seats - 1	Rated Power -	450 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		•
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Poin	t	OFF A	RPORT/STRIP		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport [ata		
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- LIGHT AND VARIABLE			Runway	/ Ident -	N/A	
Visibility - 20.0 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	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE	•			
Precipitation - NONE	, , , , , , , , , , , , , , , , , , , ,					
Condition of Light - DAYLIGHT						
Pilot-In-Command	Age - 59	Medical Certifi			IVERS/LIM	IT
Certificate(s)∱Rating(s)	Biennial Flight Review		ight Time (H			
COMMERCIAL	Current - YES		23200	Last 24	Hrs -	1
SE LAND	Months Since - 1 Aircraft Type - BE-35	Make/Model- Instrument-	7000	Last 30	Days-	2
	Aircraft Type - BE-35	Instrument-	113	Last 90	Days-	24
Instrument Rating(s) - AIRPLANE						
-Narrative						
ING AN AERIAL APPLICATION FLIGHT, THE PILO	T HAD JUST COMPLETED A SWAT	TH RUN OVER A FIE	LD. WHEN THE	AIRPLANE		
LIDED WITH POWER LINES. HE SAID THAT AFTER						
FLAGGERS. WHEN HE LOOKED FORWARD AGAIN, T						

File No. - 152 3/01/89 RIVERDALE, CA A/C Reg. No. N8547H Time (Lcl) - 1251 PST Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING - AERIAL APPLICATION Finding(s) 1. OBJECT - WIRE, TRANSMISSION 2. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND DIVERTED ATTENTION - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE VISUAL LOOKOUT BY THE PILOT, WHEN HE DIVERTED HIS ATTENTION. THE POWER LINE WAS A RELATED FACTOR.

ЭΤ.
None
0
I - YES/NO n - NO
•
MIT
4
10 10

File No. - 114 3/08/89 A/C Reg. No. N277MB LEGGETT, CA Time (Lcl) - 1530 PST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE - NORMAL Finding(s) 1. TERRAIN CONDITION - HIGH TERRAIN 2. WEATHER CONDITION - LOW CEILING 3. WEATHER CONDITION - FOG 4. WEATHER CONDITION - DRIZZLE 5. VFR FLIGHT INTO IMC - CONTINUED - PILOT IN COMMAND IN FLIGHT COLLISION WITH OBJECT Occurrence #2 Phase of Operation CRUISE Finding(s) 6. OBJECT - TREE(S) 7. PROPER ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S CONTINUATION OF VFR FLIGHT INTO INSTRUMENT METEOROLOGICAL CONDITIONS (IMC), AND HIS FAILURE MAINTAIN PROPER ALTITUDE. FACTORS RELATED TO THE ACCIDENT WERE THE ADVERSE WEATHER CONDITIONS, HIGH TERRAIN, AND TREES.

File No 112 3/18/89	WESTLEY, CA	A/C R	eg. No. N6713Q		Time (Lcl)	- 0900 PS1	「
-Basic Information Type Operating Certificate-AGRICL	ULTURAL AIRCRAFT	Aircraf	t Damage		Inj	uries	
		SUBSTA	NTIAL	Fata			None
Type of Operation -AERIAL	APPLICATION	Fire	Cı	rew 0			0
Flight Conducted Under -14 CFR Accident Occurred During -MANEUV		NONE	Pa	ass 0	0	0	0
Accident occurred buring -maneov							
-Aircraft Information							
Make/Model - GRUMMAN G-164B		Make/Model - P&			T Installed		
Landing Gear - TAILWHEEL-ALL FIX		per Engines - 1			Stall Warr	ing System	- YES
Max Gross Wt - 6075		ine Type - RE ed Power -		BURETUR			
No. of Seats - 1	кат	ea Power - 	450 HP				
-Environment/Operations Information-							
Weather Data	Itiner				t Proximity		
Wx Briefing - NO RECORD OF BR		Departure Point		OFF	AIRPORT/STR	!IP	
Method - N/A Completeness - N/A		STLEY,CA nation		Airport	. Do+o		
Basic Weather - VMC		CAL		ATTPOT	Data		
Wind Dir/Speed- 210/008 KTS	23	DAL		Runy	av Ident	- N/A	
Visibility - 5.0 SM	ATC/Ai	^space			ay Lth/Wid		
Lowest Sky/Clouds - N/A		of Flight Plan	- NONE	Run	ay Surface	- N/A	
Lowest Ceiling - 4000 F					ay Status	- N/A	
Obstructions to Vision- NONE	Туре	Apch/Lndg	- FORCED LANDING	G			
Precipitation - RAIN Condition of Light - DAYLIGH	IT.						
Condition of Light - DATEIGH	 						
-Personnel Information							
Pilot-In-Command	Age -	37 Light Review	Medical Certif			NO WAIVERS	LIMIT
Certificate(s)/Rating(s) COMMERCIAL	Biennial F	t - YES	Total .	light Time	(Hours) Last	24 Uns -	2
ME LAND	Months	Since - 7	Make/Model	- 1500	Last	30 Days- UN	JK/NB ∠
ME EARD	Aircra	Since - 7 ft Type - BE-58	Instrument	- 411	Last	90 Days- UN	IK/NR
			Multi-Eng	- 1424	Rotor	craft -	61
			_				
Instrument Rating(s) - AIRPL	ANE						
-Narrative							
PLT RPRTD THAT DURING AN AERIAL APP	LICATION FLT, THE	ENG LOST PARTIA	L POWER. AS HE I	MANEUVERED	TO AVOID OB	STACLES,	
ACFT MUSHED INTO A CULTIVATED FIELD							
S OF POWER.				- 1 - 1 - 1 - 1 - 1 - 1			

3/18/89 WESTLEY, CA A/C Reg. No. N6713Q Time (Lc1) - 0900 PST File No. - 112 Occurrence #1 LOSS OF ENGINE POWER Phase of Operation MANEUVERING - AERIAL APPLICATION Finding(s) 1. UNDETERMINED Occurrence #2 FORCED LANDING MANEUVERING - TURN TO LANDING AREA (EMERGENCY) Phase of Operation IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING - TURN TO LANDING AREA (EMERGENCY) Finding(s) 2. TERRAIN CONDITION - HIGH OBSTRUCTION(S) 3. MANEUVER - PERFORMED - PILOT IN COMMAND 4. AIRSPEED - INADEQUATE -5. STALL/MUSH Occurrence #4 NOSE OVER Phase of Operation OTHER ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
A LOSS OF ENGINE POWER FOR UNDETERMINED REASONS. A FACTOR RELATED TO THE ACCIDENT WAS THE PROXIMITY OF OBSTRUCTIONS.

File No 111 4/02/89 HANF0	D,CA A/C Reg. No. N26PL			Time (Lc1) - 0900 PDT					
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	N) Aircraft Damage SUBSTANTIAL			Injuries Fatal Serious Minor Nor				
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH		Fire NONE	Crew Pass	0	0 0	1	None 0 0		
Aircraft Information Make/Model - LOWE QUICKIE Q-200 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 720 No. of Seats - 2	N umber Er	ngines - 1 pe - RECIP	NENTAL D-200-A PROCATING-CARBUR OO HP	S	Installed/A tall Warnir				
Environment/Operations Information									
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Depar SALINAS	ture Point		Airport ON AIR	Proximity PORT				
Completeness - N/A	Destination	1		Airport D					
Basic Weather - VMC Wind Dir/Speed- 350/005 KTS	SAME AS	ACC/INC		HANFOR		32			
Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of C	ight Plan - N earance - N		Runway Runway	Lth/Wid - Surface -	_	75		
Personnel Information					M507041 114	TV500 // TN			
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 71 Biennial Flight		edical Certifica Flia	te - VALID ht Time (H		TAFK2/ FIM	11 (
PRIVATE SE LAND	Current Months Since	- YES	Total - Make/Model-	1500 50 NK/NR	Last 24 Last 30 Last 90		5 10 20 IK/NR		
Instrument Rating(s) - NONE									
Narrative IILE ON FINAL APPROACH TO LAND, THE AIRPLANE BE FENCE, JUST SHORT OF THE RUNWAY. NO PREIM						D.			

File No. - 111 4/02/89 HANFORD, CA A/C Reg. No. N26PL Time (Lc1) - 0900 PDT Occurrence #1 UNDERSHOOT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. DISTANCE - MISJUDGED - PILOT IN COMMAND 2. ALTITUDE - MISJUDGED - PILOT IN COMMAND IN FLIGHT COLLISION WITH OBJECT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 3. OBJECT - FENCE IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #3 Phase of Operation OTHER ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT MISJUDGED HIS ALTITUDE & DISTANCE TO THE RUNWAY, WHILE ON FINAL APPROACH, WHICH RESULTED IN AN UNDERSHOOT OF THE RUNWAY. A FACTOR RELATED TO THE ACCIDENT WAS THE FENCE.

File No 73 4/09/89 IR	·	eg. No. N25884	Т	ime (Lcl)	- 1702 PD	Г
Basic Information Type Operating Certificate-NONE (GEN	ERAL AVIATION) Aircraf	t Damage	Fatal	Inju		Nama
Type: of Openation - INCIDUCTI		NTIAL				
Type of Operation -INSTRUCTI Flight Conducted Under -14 CFR 91		Crew	_		0	2
Accident Occurred During -LANDING	NONE	Pass	O	O	O	O
Aircraft Information Make/Model - CESSNA 152	Eng Make/Model - LY	COMING 0-235-12C	FLT	Installed/	Activated	- VEC/N
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			tall Warni		
Max Gross Wt - 1650	Engine Type - RE			taii waiiii	ing system	163
No. of Seats - 2	· /,	110 HP	ETUK			
Environment/Operations Information				Daniel Color		
Weather Data	Itinerary			Proximity	n	
Wx Briefing - NO RECORD OF BRIEF Method - N/A	• • • • • • • • • • • • • • • • • • • •		UFF AI	RPORT/STRI	۲	
•	EL MONTE, CA		Ainnest C	2+2		
Completeness - N/A	Destination		Airport D	ата		
Basic Weather - VMC Wind Dir/Speed- 180/008 KTS	LOCAL		D	Talaura	N1 / A	
	ATC /A impropr			Ident	•	
Visibility - 8.0 SM Lowest Sky/Clouds - CLEAR	ATC/Airspace	NONE		Lth/Wid		
Lowest Sky/Crodds - CLEAR Lowest Ceiling - NONE	Type of Flight Plan Type of Clearance			Surface Status		
Obstructions to Vision- HAZE	Type Of Creatance Type Apch/Lndg		Runway	Status	- N/A	
Precipitation - NONE	Type Apch/ Lndg	- FURCED LANDING				
Condition of Light - DAYLIGHT						
Department Information						
Personnel Information Pilot-In-Command	Age - 22	Medical Certifica	te - VALID	MEDICAL -W	ATVEDS /I TA	ATT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (H		AIVLK3/LIN	11
COMMERCIAL, CFI	Current - VES	Total -			4 Hrs -	2
SE LAND	Current - YES Months Since - 1 Aircraft Type - PA-28	Make/Model-				26
JE ENNO	Aircraft Type - PA-28	Instrument-	66	Last 9	O Days O Days-	
	All of art Type TA 28	Multi-Eng -		Last 5	Juys	37
		marci Liig	Ũ			
Instrument Rating(s) - AIRPLANE						
Narrative		MCI THE OST CHITO	UED THE EH	51 CHUT 05	~	
Narrative CESSNA 152 COLLIDED WITH A FENCE DURING	A FORCED LANDING. AT 4,000 FT				F	
	A FORCED LANDING. AT 4,000 FT NG FAILURE. THE STUDENT PILOT	SWITCHED THE FUEL	SHUT OFF V	ALVE TO		
	A FORCED LANDING. AT 4,000 FT NG FAILURE. THE STUDENT PILOT M. THE CFI THEN "DOUBLE CHECKE	SWITCHED THE FUEL D" TO SEE THAT THE	SHUT OFF V STUDENT S	ALVE TO WITCHED TH	E FUEL	
	A FORCED LANDING. AT 4,000 FT NG FAILURE. THE STUDENT PILOT M. THE CFI THEN "DOUBLE CHECKE NG BEGAN TO FIRE AND THEN QUIT	SWITCHED THE FUEL D" TO SEE THAT THE . THE CFI THEN CHE	SHUT OFF V STUDENT S CKED THE F	ALVE TO WITCHED TH UEL SHUT O	E FUEL FF	
Narrative CESSNA 152 COLLIDED WITH A FENCE DURING LEVE TO THE OFF POSITION TO SIMULATE AN EN HE ON POSITION. THE ENG DID NOT REGAIN RPN HUT OFF VALVE TO THE "ON" POSITION. THE EN LEVE AGAIN ALONG WITH THE MIXTURE CTRL, M	A FORCED LANDING. AT 4,000 FT NG FAILURE. THE STUDENT PILOT M. THE CFI THEN "DOUBLE CHECKE NG BEGAN TO FIRE AND THEN QUIT AGNETOS, AND ENG PRIMER. AT 20	SWITCHED THE FUEL D" TO SEE THAT THE . THE CFI THEN CHE OO FT MSL THE PROP	SHUT OFF V STUDENT S CKED THE F ELLER STOP	ALVE TO WITCHED TH UEL SHUT O PED TURNIN	E FUEL FF	
Narrative CESSNA 152 COLLIDED WITH A FENCE DURING A LEVE TO THE OFF POSITION TO SIMULATE AN EN HE ON POSITION. THE ENG DID NOT REGAIN RPH HUT OFF VALVE TO THE "ON" POSITION. THE EN LEVE AGAIN ALONG WITH THE MIXTURE CTRL, MA HE CFI ENGAGED THE STARTER IN AN ATTEMPT	A FORCED LANDING. AT 4,000 FT NG FAILURE. THE STUDENT PILOT M. THE CFI THEN "DOUBLE CHECKE NG BEGAN TO FIRE AND THEN QUIT AGNETOS, AND ENG PRIMER. AT 20 TO RESTART THE ENG. THE CFI OV	SWITCHED THE FUEL D" TO SEE THAT THE . THE CFI THEN CHE OO FT MSL THE PROP ERSHOT THE INTENDE	SHUT OFF V STUDENT S CKED THE F ELLER STOP D LANDING	ALVE TO WITCHED TH UEL SHUT O PED TURNIN AREA AND	E FUEL FF G.	
Narrative CESSNA 152 COLLIDED WITH A FENCE DURING LVE TO THE OFF POSITION TO SIMULATE AN EI E ON POSITION. THE ENG DID NOT REGAIN RPI UT OFF VALVE TO THE "ON" POSITION. THE EI LVE AGAIN ALONG WITH THE MIXTURE CTRL, M E CFI ENGAGED THE STARTER IN AN ATTEMPT LECTED ANOTHER ROAD AND LANDED SHORT OF	A FORCED LANDING. AT 4,000 FT NG FAILURE. THE STUDENT PILOT M. THE CFI THEN "DOUBLE CHECKE NG BEGAN TO FIRE AND THEN QUIT AGNETOS, AND ENG PRIMER. AT 20 TO RESTART THE ENG. THE CFI OV IT. THE ACFT STRUCK A FENCE AN	SWITCHED THE FUEL D" TO SEE THAT THE . THE CFI THEN CHE OO FT MSL THE PROP ERSHOT THE INTENDE D NOSED OVER. THE	SHUT OFF V STUDENT S CKED THE F ELLER STOP D LANDING ACFT WAS E	ALVE TO WITCHED TH UEL SHUT O PED TURNIN AREA AND XAMINED AN	E FUEL FF G.	
	A FORCED LANDING. AT 4,000 FT NG FAILURE. THE STUDENT PILOT M. THE CFI THEN "DOUBLE CHECKE NG BEGAN TO FIRE AND THEN QUIT AGNETOS, AND ENG PRIMER. AT 20 TO RESTART THE ENG. THE CFI OV IT. THE ACFT STRUCK A FENCE AN F FUEL. AC 61-21 STATES, IN PA	SWITCHED THE FUEL D" TO SEE THAT THE . THE CFI THEN CHE OO FT MSL THE PROP ERSHOT THE INTENDE D NOSED OVER. THE	SHUT OFF V STUDENT S CKED THE F ELLER STOP D LANDING ACFT WAS E	ALVE TO WITCHED TH UEL SHUT O PED TURNIN AREA AND XAMINED AN	E FUEL FF G.	

4/09/89 IRWINDALE,CA File No. - 73 A/C Reg. No. N25884 Time (Lc1) - 1702 PDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation MANEUVERING Finding(s) 1. FLUID, FUEL - STARVATION 2. EMERGENCY PROCEDURE - SIMULATED - PILOT IN COMMAND(CFI) 3. PROCEDURES/DIRECTIVES - IMPROPER - PILOT IN COMMAND(CFI) 4. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND(CFI) Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 5. STARTING PROCEDURE - ATTEMPTED - PILOT IN COMMAND(CFI) Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 6. OBJECT - FENCE Occurrence #4 NOSE OVER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 7. TERRAIN CONDITION - HIGH VEGETATION 8. TERRAIN CONDITION - ROUGH/UNEVEN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PROCEDURE USED BY THE CERTIFIED FLIGHT INSTRUCTOR IN SIMULATING AN ENGINE FAILURE. CONTRIBUTING TO THIS ACCIDENT WAS THE LACK OF TOTAL FLIGHT INSTRUCTION EXPERIENCE OF THE FLIGHT INSTRUCTOR.

File No 144 1/04/89 1	_ONGMONT,CO	A/C Reg. No. N	96319	Time (Lcl) - 1000 MST			ST	
-Basic Information Type Operating Certificate-NONE (GI Type of Operation -PERSONAL	· -	Aircraft Damage SUBSTANTIAL Fire	Crew	Fatal O	Inj Serious O O	uries Minor O	None 1 0	
Flight Conducted Under -14 CFR S Accident Occurred During -LANDING	91	NONE	Pass	0	O	O	O	
Aircraft Information								
Make/Model - CESSNA 172		/Model - LYCOMING 0-3	320-D2J			/Activated		
Landing Gear - TRICYCLE-FIXED		ngines – 1 vpe – RECIPROCATIN	NO CADDUDE		tali warn	ing System	- YES	
Max Gross Wt - 2300 No. of Seats - 4	Engine To		NG-CARBURE	TUR				
NO. Of Seats - 4	Rated For	wer - 160 HF						
Environment/Operations Information								
Weather Data	Itinerary				Proximity			
Wx Briefing - NO RECORD OF BRIE		rture Point		ON AIR	PORT			
Method - N/A	DENVER,	00	1					
Completeness - N/A	Destination			Airport D				
Basic Weather - VMC	SAME AS	ACC/INC		LONGMO				
Wind Dir/Speed- CALM					Ident	- 29		
Visibility - 20.0 SM	ATC/Airspace					- 4200/	60	
Lowest Sky/Clouds - CLEAR		light Plan - NONE				- ASPHALT		
Lowest Ceiling - NONE	Type of C			Runway	Status	- DRY		
Obstructions to Vision- NONE	Type Apch							
Precipitation - NONE		FULL STO)P					
Condition of Light - DAYLIGHT								
Personnel Information								
Pilot-In-Command	Age - 49	Medical (Certificat	e - VALID	MEDICAL-	WAIVERS/LIM	4IT	
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	Fligh	t Time (H	ours)			
STUDENT	Current	- N/A Total	1 -	22	Last	24 Hrs -	1	
	Months Since	e - N/A Make/	/Model-	22	Last	30 Days- UN	NK/NR	
	Aircraft Ty	oe - N/A Instr	rument-	2	Last	90 Days- UN	NK/NR	
Instrument Rating(s) - NONE	•							
-Narrative								
STUDENT PLT LANDED ON RWY 29 (4200 X								
T VEERED TO THE LEFT, ENCOUNTERED A SM								
THE RUNWAY WAS STILL COVERED WITH SNOW	AT THE EDGES. HE BE	LIEVED THAT PLOWING 7	THE FULL W	IDTH OF TO	HE RUNWAY	MAY		
E HELPED PREVENT THE ACCIDENT.								

File No. - 144 1/04/89 LONGMONT, CO A/C Reg. No. N96319 Time (Lcl) - 1000 MST Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 1. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - SNOW COVERED 2. PROPER ALIGNMENT - NOT MAINTAINED - PILOT IN COMMAND 3. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND 4. TERRAIN CONDITION - SNOWBANK Occurrence #2 NOSE OVER Phase of Operation LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE STUDENT PILOT TO MAINTAIN PROPER RUNWAY ALIGNMENT DURING THE LANDING ROLL. FACTORS RELATED TO THE ACCIDENT WERE: SNOW ON THE EDGES OF THE RUNWAY, THE STUDENT'S LACK OF TOTAL EXPERIENCE, AND THE SNOWBANK.

File No 47 1/05/89 AS	PEN, CO A,	/C Reg. No. N945FE	Т	ime (Lcl) -	0739 M S	ST
Basic Information Type Operating Certificate-ON-DEMAND Name of Carrier -P. M. AIR Type of Operation -NON SCHED Flight Conducted Under -14 CFR 13 Accident Occurred During -APPROACH	, INC. DES ,DOMESTIC,CARGO Fire		Fatal Crew O Pass O	Injur Serious 1 O	ies Minor O 1	None O O
Aircraft Information Make/Model - CESSNA 208B Landing Gear - TRICYCLE-FIXED Max Gross Wt - 8750 No. of Seats - 2	<u> </u>			Installed/A stall Warnin		•
Environment/Operations Information Weather Data Wx Briefing - FSS Method - ACFT RADIO Completeness - PARTIAL,LMTD BY PI Basic Weather - IMC Wind Dir/Speed- CALM Visibility - 3.000 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 900 FT O Obstructions to Vision- NONE Precipitation - SNOW Condition of Light - DAWN	Itinerary Last Departure Po DENVER,CO LOT Destination SAME AS ACC/ING ATC/Airspace Type of Flight P BSCURED Type Apch/Lndg	C lan - IFR	OFF AI Airport D ASPEN- Runway Runway Runway	PITKIN COUN	TY 15 7003/ ASPHALT	Γ '
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND	Age - 33 Biennial Flight Review Current - YE: Months Since - 6 Aircraft Type - C-:	S Total Make/Mode	1- 322 it- 200	MEDICAL-NO lours) Last 24 Last 30 Last 90	Hrs - Days- L	2 JNK/NR
Instrument Rating(s) - AIRPLANE						
Narrative LT SAID HE ENCOUNTERED SEVERE TO EXTREME F HE BEGAN IMMEDIATE RIGHT TURN AS CALLED MISSED APCH POINT IS AT 11.5 DME) BECAUSE OUNTAIN 3 MI EAST OF ARPT. WX ANALYSIS IN XTREME TURBULENCE. PLTS LANDING AND DEPAR ADAR SHOWED ACFT SPEED AT 183.1 KTS BETWE TS. PLT SAID HE REFERRED TO CURRENT COMME OVERNMENT INSTRUMENT APCH BOOK WAS FOUND AID PLT PANICKED AFTER ENCOUNTERING TURBU	FOR IN MISSED APCH PROCEDING THERE WAS HIGHER TERRAIN DICATED POTENTIAL FOR LIGHTING ARPT PRIOR TO AND AFTION IAF AND FAF. BETWEEN FAIRCIAL INSTRUMENT APCH CHARTIN ACFT. RADIOS WERE NOT TO	JRE. PLT SAID HE M TO RIGHT. ACFT COL T TO MODERATE TURE ER ACCIDENT REPORT F AND MISSED APCH T WHILE EXECUTING	ADE LEFT TURN LIDED WITH TRE ULENCE BUT NOT ED LIGHT TO MC POINT, ACFT SF APCH. ONLY OBS	AT 15 DME ES ON SEVERE TO DERATE CHOP PEED WAS 95. SOLETE	7	·

File No. - 47 1/05/89 ASPEN, CO A/C Reg. No. N945FE Time (Lcl) - 0739 MST IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation APPROACH - MISSED APPROACH (IFR) Finding(s) 1. WEATHER CONDITION - TURBULENCE IN CLOUDS 2. WEATHER CONDITION - LOW CEILING 3. WEATHER CONDITION - OBSCURATION 4. WEATHER CONDITION - SNOW Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation APPROACH - MISSED APPROACH (IFR) Finding(s) 5. IFR PROCEDURE - IMPROPER - PILOT IN COMMAND 6. TERRAIN CONDITION - MOUNTAINOUS/HILLY 7. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S IMPROPER IFR PROCEDURE. CONTRIBUTING FACTORS INCLUDED MODERATE TURBULENCE, LOW CEILINGS, OBSCURATION AND SNOW.

Basic Information Type Operating Certificate-NONE (GE Type of Operation -EXECUTIV	NERAL AVIATION)	Aircraft Da					
Type of Operation -EXECUTIV		SUBSTANTIA		Fatal	Injur Serious	ies Minor	None
Flight Conducted Under -14 CFR 9 Accident Occurred During -TAKEOFF	E/CORPORATE 1	Fire NONE	Crew Pass	0	0	0	1 5
Aircraft Information							
Make/Model - PIPER PA-31T Landing Gear - TRICYCLE-RETRACTABL Max Gross Wt - 9000 No. of Seats - 7		- TURBOP			Installed/Atall Warnir		
Environment/Operations Information							
Weather Data Wx Briefing - FSS Method - TELEPHONE	Itinerary Last Departu SAME AS AC			Airport ON AIR	Proximity PORT		
Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 330/005 KTS Visibility500 SM Lowest Sky/Clouds - N/A	Destination ENGLEWOOD, ATC/Airspace	·	R	Runway Runway	MOFFAT Ident - Lth/Wid -	25 5600/ ASPHALT	100
Lowest Ceiling - 400 FT Obstructions to Vision- FOG Precipitation - SNOW Condition of Light - DAYLIGHT	OBSCURED Type of Clea Type Apch/Lr			Runway	Status -	SNOW - W	/ET
Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 47 Biennial Flight Re		ical Certifica	ite - VALID iht Time (H		IVERS/LIM	11 1
ATP, CFI	Current	- YES	Total -	9555	Last 24		1
SE LAND, ME LAND	Months Since Aircraft Type		Make/Model- Instrument- Multi-Eng -	862	Last 30 Last 90		32 78
Instrument Rating(s) - AIRPLAN	E						•
Narrative HE PLT REQUESTED THE SNOW COVERED RWY BE R EVIDENCE OF UNEVEN PLOWING & CONCLUDED T ABOUT 80 KTS, HE FELT THE LEFT GEAR DR IRPLANE SWERVED TO THE RIGHT EDGE OF THE NTO A SNOWBANK & WAS DAMAGED. RPRTDLY, T	THE "RUNWAY DEMARCATION AG AND THE AIRPLANE BEGOORWY. SUBSEQUENTLY, THE	DN WAS ADEQUA GAN TO SWERVE HE PLT LOST C	TE FOR TAKEOFF LEFT. HE COR ONTROL OF THE	HE SAI RECTED WIT AIRPLANE &	D THAT DRG H RUDDER & IT CONTINL	TAKEOFF, THE IED	

File No. ~ 154 1/06/89 CRAIG, CO A/C Reg. No. N82290 Time (Lcl) - 1307 MST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. WEATHER CONDITION - SNOW 2. WEATHER CONDITION - FOG 3. WEATHER CONDITION - OBSCURATION 4. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - SNOW COVERED 5. AIRPORT SNOW REMOVAL - INADEQUATE - AIRPORT PERSONNEL 6. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - ROUGH/UNEVEN 7. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND 8. VISUAL/AURAL PERCEPTION - PILOT IN COMMAND 9. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 10. GROUND LOOP/SWERVE - UNCONTROLLED -Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - GROUND RUN Finding(s) 11. TERRAIN CONDITION - SNOWBANK ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: UNSUITABLE TERRAIN (RUNWAY CONDITION) SELECTED BY THE PILOT. FACTORS RELATED TO THE ACCIDENT WERE: THE ADVERSE WEATHER CONDITIONS, INADEQUATE REMOVAL OF SNOW FROM THE RUNWAY BY AIRPORT PERSONNEL, UNEVEN SNOW COVERED RUNWAY, LACK OF VISUAL PERCEPTION BY THE PILOT, AND SNOWBANKS BESIDE THE RUNWAY.

File No 162 1/18/89 BROOM	FIELD,CO	A/C Reg. No. N	1721W	T	ime (Lcl)	- 1130 MS	T
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -SALES DEMO Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	J	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal O O		uries Minor O	• None 1 1
Aircraft Information Make/Model - BEECH V35B Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3400 No. of Seats - 5	Number Engine Engine Type	- 285 HP	INJECTED	· S	tall Warr	I/Activated ling System	- YES
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed 190/006 KTS Visibility - 60.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure SAME AS ACC Destination LOCAL ATC/Airspace Type of Fligh Type of Clear Type Apch/Lnd	/INC t Plan - NONE ance - NONE	PATTERN	OFF AI Airport D JEFFCO Runway Runway Runway	Ident Lth/Wid	- 29R - 7498/ - ASPHALT	100
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND	Age - 39 Biennial Flight Rev Current - Months Since - Aircraft Type -	iew		t Time (H 2241 26	lours) Last Last	NO WAIVERS, 24 Hrs - UI 30 Days- 90 Days-	
Instrument Rating(s) - AIRPLANE	· · · · · · · · · · · · · · · · · · ·						
Narrative HE CFI RATED PLT WAS PERFORMING A SALES-DEMO ONTROL TOWER HAD CLEARED THE FLIGHT TO LAND 90 DEGREES AT 6 KNOTS. THE CFI SAID THAT JUS ONTROLS AND ATTEMPTED A RESTART, TO NO AVAIL XTENDED THE LANDING GEAR TO ABSORB LANDING I ANDING GEAR COLLAPSED DURING ROLL OUT AND TH NVESTIGATION REVEALED THAT THE FUEL SELECTOR N THE FUEL LINES OR FUEL PUMP. BOTH PAX SAID	ON RWY 29R, A 7,498 C T PRIOR TO TURNING B THE CFI FIRST RETR MPACT. THE ACFT TOUCH BE ACFT CAME TO REST	X 100 FT ASPHALT ASE, THE ENGINE ACTED THE LANDIN HED DOWN 600 FEE 400 FEET FROM TH TANK AND THE RG	RWY, WITH STOPPED. TH G GEAR, TO T SHORT OF E APPROACH T TANK WAS	WINDS REHE CFI TO CLEAR OB THE RUNW END OF REMPTY. N	PORTED AS BOK THE SSTACLES, BAY. THE BWY 29R. F	THEN .	

Time (Lc1) - 1130 MST 1/18/89 A/C Reg. No. N1721W File No. - 162 BROOMFIELD, CO Occurrence #1 LOSS OF ENGINE POWER Phase of Operation APPROACH - VFR PATTERN - BASE TURN Finding(s) 1. FLUID, FUEL - STARVATION 2. FUEL TANK SELECTOR POSITION - IMPROPER - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 COMPLETE GEAR COLLAPSED Phase of Operation LANDING - ROLL Finding(s) 3. TERRAIN CONDITION - ROUGH/UNEVEN 4. LANDING GEAR - OVERLOAD

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL STARVATION DUE TO IMPROPER FUEL TANK SELECTIOR OPERATION BY THE PILOT. A FACTOR RELATED TO THE ACCIDENT WAS: UNPREPARED (ROUGH/UNEVEN) TERRAIN SHORT OF THE RUNWAY.

----Probable Cause----

File No 35 1/27/89	DURANGO, CO	A/C Reg. No.	N4737P	Т	ime (Lc1)	- 1800 MS	т
Type of Operation -NON SCH	DO TRANSPORTATION, HED,DOMESTIC,CARGO	Aircraft Damag SUBSTANTIAL Fire	e Crew	Fatal O	Inju Serious O	uries Minor O	None 1
Flight Conducted Under -14 CFR Accident Occurred During -TAKEOFF	135	NONE	Pass	0	0	O	0
Aircraft Information		/M				/ .	
Make/Model - CESSNA P210N Landing Gear - TRICYCLE-RETRACTAE		['] Model - CONTINENT ngines - 1	AL 1510-520-		installed, tall Warn		I - YES/YE
Max Gross Wt - 3400	Engine Ty		LINJECTED	3	tarr warm	ing system	1 - 153
No. of Seats - 6	Rated Pow						
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - FSS	•	ture Point		ON AIR	PORT		
Method - TELEPHONE	SAME AS	•					
Completeness - FULL	Destination			Airport D			
Basic Weather - IMC	ALBUQUER	RQUE, NM		ANIMAS			
Wind Dir/Speed- CALM				•	Ident	- 19	-
Visibility - 2.000 SM	ATC/Airspace			•	Lth/Wid		
Lowest Sky/Clouds - UNK/NR	,,	ight Plan - IFR			Surface		
Lowest Ceiling - 1000 FT	COVERCAST Type of Cl	earance - IFR		Runway	Status	- SNOW -	DRY
Obstructions to Vision- BLOWING	SAND Type Apch/	Lndg - NONE					
Precipitation - SNOW SHO	OWER						
Condition of Light - NIGHT(DA	ARK)	· · · · · · · · · · · · · · · · · · ·					
Personnel Information							
Pilot-In-Command	Age - 27		1 Certificat			O WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial flight			t Time (H			
COMMERCIAL, ATP, CFI	Current	- YES To	tal -	2912	Last 2	24 Hrs -	3
SE LAND, ME LAND	Months Since	e ~ 3 Ma	ke/Mode1-	400		80 Days-	57
•	Aircraft Typ			166	Last 9	00 Days-	134
		Mu	lti-Eng -	1538			
Instrument Rating(s) - AIRPLA	NNE						
Narrative							

Time (Lcl) - 1800 MST 1/27/89 A/C Req. No. N4737P File No. - 35 DURANGO, CO

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

- 1. TERRAIN CONDITION SNOWBANK
- 2. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND
- 3. LIGHT CONDITION DARK NIGHT
- 4. FLIGHT INTO KNOWN ADVERSE WEATHER ATTEMPTED PILOT IN COMMAND
- 5. SELF-INDUCED PRESSURE PILOT IN COMMAND
- 6. WEATHER CONDITION SNOW
- 7. ICE/FROST REMOVAL FROM AIRCRAFT NOT PERFORMED PILOT IN COMMAND
- OVER CONFIDENCE IN PERSONAL ABILITY PILOT IN COMMAND

Occurrence #2 Phase of Operation TAKEOFF - INITIAL CLIMB

GEAR COLLAPSED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN RUNWAY ALIGNMENT DURING TAKEOFF. THAT THE PILOT ATTEMPTED FLIGHT INTO KNOWN ADVERSE CONDITIONS FROM AN AIRPORT THAT WAS NOT APPROVED FOR IMC OPERATIONS IS CONSIDERED TO BE A CONTRIBUTING FACTOR.

-Basic Information Type Operating Certificate-NONE (GENERAL	_ AVIATION) Aircraf SUBSTA	t Damage NTIAL	Fatal	Injur Serious	ies Minor	None
Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	- Fire NONE	Crew Pass		0 0	0	2 0
-Aircraft Information Make/Model - PIPER PA-18-150 Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Model - LY Number Engines - 1			Installed/A		
Max Gross Wt - 1625 No. of Seats - 2	<u> </u>	CIPROCATING-CARBUR 150 HP	RETOR			
-Environment/Operations Information						
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Point SAME AS ACC/INC		Airport ON AIR	Proximity PORT		
Completeness - N/A Basic Weather - VMC	Destination LOCAL		Airport D	ata R MUNICIPAL		
Wind Dir/Speed- CALM	EUCAL				UNK/NR	
Visibility - 50.0 SM	ATC/Airspace			Lth/Wid -		75
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE		Surface - Status -	DRY	
-Personnel Information						
Pilot-In-Command	Age - 34	Medical Certifica	ite - VALID ght Time (H		IVERS/LIM	ΙΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review Current - YES	Total -		Last 24	Hrs -	1
SE LAND, ME LAND	Months Since - 4 Aircraft Type - BE-76	Make/Model-	165	Last 30 Last 90	Days-	46
GLIDER	Aircraft Type - BE-76	Instrument- Multi-Eng -				64 14
Instrument Rating(s) - AIRPLANE						
-Narrative	CKOUT WITH A DRIVATE DIT T	UE CUECK DIT TOID	THE DIT TO	MAIZE		
ATP RATED CFI WAS PERFORMING A RENTAL CHE DING AND "IF SUFFICIENT RUNWAY REMAINED," 5 FT ASPHALT RWY. THE CHECK PILOT HAD BEEN EASED THE CONTROLS AND WAITED FOR THE PLT	TO MAKE ANOTHER TAKEOFF. A FOLLOWING THROUGH ON THE C	LANDING WAS COMPLE ONTROLS BUT DURING	TED ON RWY THE LANDI	8R, A 4,100 NG ROLL HE	0	
TROLS, THE STICK WENT FORWARD AND HE HEARD TOOK THE CONTROLS AND ATTEMPTED TO CORRECT	THE ENGINE SPEED UP. THE A	IRPLANE SWERVED TO	THE LEFT.	THE CHECK		

A/C Reg. No. N4355Z Time (Lcl) - 1410 MST File No. - 11 2/08/89 BOULDER, CO Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. CREW/GROUP COORDINATION - INADEQUATE - PILOT IN COMMAND(CFI) 2. TOUCH-AND-GO - INITIATED - DUAL STUDENT 3. DIRECTIONAL CONTROL - NOT MAINTAINED - DUAL STUDENT 4. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 5. TERRAIN CONDITION - SNOWBANK Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE DUAL STUDENT TO MAINTAIN DIRECTIONAL CONTROL AND THE FAILURE OF THE PILOT IN COMMAND (CFI), TO PROVIDE ADEQUATE REMEDIAL ACTION IN A TIMELY MANNER, TO CORRECT THE SWERVE. A ...COND PROBABLE CAUSE WAS THE CFI'S FAILURE TO PROVIDE ADEQUATE SUPERVISION DURING THE LANDING ROLL. INADEQUATE CREW COORDINATION IS CONSIDERED A FACTOR.

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraft	Damage		Injur	ies	
	SUBSTAN		Fatal	Serious		None
Type of Operation -INSTRUCTIONA		Crew	-	0	0	2
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass		0	0	0
Aircraft Information Make/Model - CESSNA 152	Fire Make / Made 1 LVO	OMINO O OSE LOS				VEC / VE
Landing Gear - TRICYCLE-FIXED	Eng Make/Model - LYCO Number Engines - 1	JMING U-235-L2C		Installed/A tall Warnin		
Max Gross Wt - 1670		PROCATING-CARBUR		tari wariin	ig system	163
No. of Seats - 2	9,1	110 HP				
Environment/Operations Information	Thinnan			D		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Point			Proximity RPORT/STRIP	,	
Method - N/A	GREELEY, CO		OFF AI	KPUKI/SIKIP		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		•			
Wind Dir/Speed- CALM	<u>,</u>				N/A	
Visibility - 60.0 SM	ATC/Airspace	NONE		Lth/Wid -		
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Flight Plan - Type of Clearance -			Surface -	* .	
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Crearance - Type Apch/Lndg -		Runway	Status -	N/A	
Precipitation - NONE	Type Apelly Elling	TOROLD LANDING				
Condition of Light - DAYLIGHT	···					
-Personnel Information	A	4	+- VAL TD	MEDICAL NO	WATVEDC	/
Pilot-In-Command Certificate(s)/Rating(s)		Medical Certifica Flic	ite - VALID iht Time (H		WAIVERS/	LIMII
COMMERCIAL, ATP, CFI	Current - YES	Total -	•	Last 24	Hrs -	3
SE LAND, ME LAND	Months Since - 8	Make/Model-		Last 30	Days-	78
	Aircraft Type - C-177RG	Instrument- Multi-Eng -		Last 90	Days-	178
Instrument Rating(s) - AIRPLANE						
-Narrative						
ATP RATED CFI AND A DUAL STUDENT WERE PRAC	TICING SIMULATED FORCED LAND	INGS OVER SNOW CO	VERED FIEL	DS. DURING	А	
CENT, THE CFI SAID HE ATTEMPTED TO ADD FUL						
A SNOW COVERED CORN FIELD AND THE NOSE GEA				_		•
THE SECOND TOUCHDOWN, THE NOSE GEAR DUG IN	I AND THE ACFT NOSED OVER. A I SINE STARTED AND RAN NORMALLY		INE RUN FA	ILED TO REV	EAL	

File No 1	65 2/09/89 GILL,CO	A/C Reg. No. N69117	Time (Lc1) - 1315 MST
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWER DESCENT - NORMAL		
THROTTLE/POWER	DURE - SIMULATED - PILOT IN COMMAND CONTROL - IMPROPER USE OF - PILOT I ON - TEMPERATURE EXTREMES		
Occurrence #2 Phase of Operation	DESCENT - EMERGENCY		
	IN FLIGHT COLLISION WITH TERRAIN/ LANDING - FLARE/TOUCHDOWN	WATER	
Finding(s) 4. TERRAIN CONDITI 5. TERRAIN CONDITI	ON - SNOW COVERED		
Occurrence #4 Phase of Operation	LANDING - ROLL		
Probable Cause			
The National Transpo	rtation Safety Roard determines tha	t the Probable Cause(s) of this accid	ent was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THE POWERPLANT CONTROLS BY THE CFI DURING DESCENT THROUGH LOW TEMPERATURE AIR.

File No 166 2/14/89 TELLU	RIDE,CO A/C	Reg. No. N7127J	Т	ime (Lcl)	- 1000 MS	Т
Type Operation		ft Damage ANTIAL Crev Pass	_	Inj Serious O O	uries Minor O O	None 1 2
Aircraft Information Make/Model - BALLOON WORKS AX8-24 Landing Gear - N/A Max Gross Wt - 900 No. of Seats - UNK/NR	Eng Make/Model - N Number Engines - N Engine Type - N Rated Power - N	I/A I/A			/Activated	
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poir SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plar Type of Clearance Type Apch/Lndg	ı – NONE	OFF AI Airport D Runway Runway Runway Runway	Proximity RPORT/STR ata Ident Lth/Wid Surface Status	- N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL FREE BALLOON	Age - 45 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - AX-7	Medical Certifica Flig Total - Make/Model- Instrument-	nt Time (H 453	ours) Last Last	24 Hrs - 30 Days- 90 Days-	1 14 14
Instrument Rating(s) - NONE	VALVE STUCK OPEN AND THE ND THE BALLOON STARTED TO THROAT AND POINTING IT OV G THE BACK UP BURNER, THE ABLE TO WORK THE STUCK VA	PLT ATTEMPTED TO SH RISE. THE PLT REDUC (ERBOARD. THIS BALLO PLT MANEUVERED AND LIVES UNTIL THEY CLO	HUT OFF FUE CED THE HEA OON WAS EQU LANDED IN OSED AND TH	L AT THE T ENTERIN IPPED WIT A WOODED E FUEL FL	G H OW	

2/14/89 TELLURIDE,CO A/C Reg. No. N7127J Time (Lcl) - 1000 MST File No. - 166 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #1 Phase of Operation LANDING Finding(s) 1. BALLOON EQUIPMENT, HEATER SYSTEM - FAILURE, PARTIAL 2. FUEL SYSTEM, FUEL SHUTOFF - FROZEN 3. THROTTLE/POWER CONTROL - NOT POSSIBLE -Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING Occurrence #3 HARD LANDING Phase of Operation LANDING Finding(s) 4. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: ICE FORMING IN THE FUEL TANK SHUT OFF VALVE, AND THE BURNER BLAST VALVE RESULTING IN A LOSS OF CONTROL DURING LANDING.

Basic Information			
Type Operating Certificate-NONE (GENERAL AVIATION) Aircraft Damage		Injuries	
	atal Seri	ous Minor	None
Type of Operation -PERSONAL Fire Crew	~	0 1	0
Flight Conducted Under -14 CFR 91 NONE Pass	0	0 0	1
Accident Occurred During -TAKEOFF			
Aircraft Information			
Make/Model - CESSNA TU206G Eng Make/Model - CONTINENTAL IO-520-F		led/Activated	
Landing Gear - TRICYCLE-FIXED Number Engines - 1	Stall W	arning System	ı - YEŞ
Max Gross Wt - 3600 Engine Type - RECIP-FUEL INJECTED			
No. of Seats - 4 Rated Power - 300 HP			
Environment/Operations Information			
Weather Data Itinerary Air	rport Proxim	ity	•
	ON AIRPORT		
Method - N/A BROOMFIELD,CO			
	port Data		
	JEFFERSON CO		
	Runway Ident		
		id - 9000/	
		ce - ASPHALT	
	Runway Statu	is - DRY	
Obstructions to Vision- NONE Type Apch/Lndg - NONE			
Precipitation - NONE			
Condition of Light - DAYLIGHT			
Personnel Information			
Pilot-In-Command Age - 48 Medical Certificate -			
	ime (Hours)		
PRIVATE Current - UNK/NR Total - 450	O La	st 24 Hrs -	O
SE LAND Months Since - UNK/NR Make/Model - 200	0 La	st 30 Days-	.5
Aircraft Type - UNK/NR Instrument- UNK/NF	K La	ist 90 Days-	15
Multi-Eng - C	O Ro	torcraft -	О
Instrument Rating(s) - NONE			
Narrative			
WHILE ON TAKEOFF ROLL IN GUSTY CROSS WIND CONDITIONS THE PLT FAILED TO MAINTAIN DIRECTIONAL CON	NTDOL OF THE	ACET	
AND DEPARTED THE RIGHT SIDE OF THE RUNWAY. THE PLT FAILED TO REDUCE PWR AND THE ACFT PROCEEDED			
AREA BETWEEN THE RNWY AND TAXIWAY, BECOMING AIRBORNE WHEN THE LANDING GEAR STRUCK THE TAXIWAY L			
STRUCK A CHAIN LINK FENCE AFTER BECOMING AIRBORNE AND FLIPPED INVERTED INTO A LAKE BORDERING TH			
PLT AND PAX EXITED THE ACFT THROUGH WINDOWS AND SWAM TO SHORE.	TE ART T. DOT		
TEL AND TAX EXTIES THE ACT THROUGH WINDOWS AND SWAM TO SHOKE.		, , , , , , , , , , , , , , , , , , ,	

File No 1	67 3/13/89	BROOMFIELD,CO	A/C Reg. No. N735VE	Time (Lc1) - 1450 MST
Occurrence #1 Phase of Operation				
	ON - GUSTS ONTROL - NOT MAINT	AINED - PILOT IN COMM - IMPROPER - PILOT IN		
Occurrence #2 Phase of Operation				
Finding(s) 5. OBJECT - FENCE				
Probable Cause			on Drobable Cause(s) of this poside	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S FAILURE TO PROPERLY CONTROL THE AIRCRAFT WHILE CONDUCTING A CROSSWIND TAKEOFF.

Basic Information Type Operating Certificate-NONE (GENER	RAL AVIATION)	Aircraft Dam	age		Injur	ies	
Type specialing series route none (acree	THE ATTRICTORY	SUBSTANTIAL	•	Fatal			None
Type of Operation -PERSONAL		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Pass	0	0	0	0
Aircraft Information							
Make/Model - CESSNA 152		/Model - LYCOMIN			Installed/A		
Landing Gear - TRICYCLE-FIXED					tall Warning	g System	- YES
Max Gross Wt - 1670		ype - RECIPRO		TUR			
No. of Seats - 2	Rated Po	wer - 110	HP 				
Environment/Operations Information							
Weather Data	Itinerary			Airport F			
Wx Briefing - UNK/NR		rture Point		OFF AIR	RPORT/STRIP		
Method - UNK/NR	STRATFO	•					
Completeness - UNK/NR	Destinatio	n		Airport Da			
Basic Weather - VMC Wind Dir/Speed- 060/012 KTS	LOCAL			SIKORS		06	
Visibility - 15.0 SM	ATC/Airspac	•			Ident - Lth/Wid -		150
Lowest Sky/Clouds - UNK/NR		e light Plan - NON	F		Surface -		130
Lowest Ceiling -		learance - NON			Status -		RY
Obstructions to Vision- NONE		/Lndg - FOR			314145	5.10.	
Precipitation - NONE	. , , , , , , , , , , , , , , , , , , ,	,g				*	
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 35		cal Certificat			IVERS/LIM	IT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight			nt Time (Ho			
STUDENT	Current	- N/A	Total -				
	Months Sinc	e - N/A pe - N/A	Make/Model-	14	Last 30	Days- UN	K/NR
	Aircraft ly	pe - N/A	Instrument-	1	Last 90	Days-	7
Instrument Rating(s) - NONE							
Narrative STUDENT PILOT WAS PRACTICING TOUCH AND OF FEET SHORTLY AFTER THREE TOUCH GO AND LA E, POLE AND SHRUBBERY. EXAMINATION OF THE THE CARBURETOR. THE BOTTOM SPARK PLUGS	NDINGS. THE PILOT HE ENGINE REVEALED	MADE A FORCED L THAT ACCELERATO	ANDING AND THE R PUMP DISCHAR	AIRPLANE GE TUBE WA	HIT A AS MISSING	TNE	

File No	76 1/07/89 STRATFORD,CT	A/C Reg. No. N757KR	Time (Lc1) - 0930 EST
	LOSS OF ENGINE POWER TAKEOFF - INITIAL CLIMB		
Finding(s) 1. UNDETERMINED			
Occurrence #2 Phase of Operation	DESCENT - EMERGENCY		
	IN FLIGHT COLLISION WITH TERRAIN/WATER LANDING - FLARE/TOUCHDOWN		
Finding(s) 2. OBJECT - FENCE 3. OBJECT - POLE			
Probable Cause			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE LOSS OF ENGINE POWER FOR UNDETERMINED REASONS.

Type Operating Certifica	ite-NONE (GENERA	•	t Damage		Injur		
Type of Operation	-PERSONAL	SUBSTA		Fatal O	Serious O	Minor 1	None 0
Flight Conducted Under	· - · · - · · -	Fire NONE	Crew Pass	0	0	1	0
Accident Occurred During		NONE	F 4 5 5	O	Ο,	•	
-Aircraft Information							
Make/Model - BEECH S- Landing Gear - TRICYCLE		Eng Make/Model - CC Number Engines - 1	NTINENTAL 10-520-BA		Installed/Adtall Warning		
Max Gross Wt - 3300	RETRACTABLE		CIP-FUEL INJECTED	5	tali warning	g system	- 1F2
No. of Seats - 4		Rated Power -					
-Environment/Operations Inf	ormation						
Weather Data		Itinerary			Proximity		
	CORD OF BRIEFING			ON AIR	PORT		
Method - N/A Completeness - N/A		BURLINGTON,VT Destination		Airport D	2+2		
Basic Weather - VMC		BRIDGEPORT, CT		•	ata PORT SIKORSK	· v	
Wind Dir/Speed- UNK/NR	, (BRIDGEF DRI, CI	,			29	
Visibility - UNK/NR		ATC/Airspace			Lth/Wid -		150
Lowest Sky/Clouds -		Type of Flight Plan	- IFR		Surface -		
Lowest Ceiling -	NONE	Type of Clearance				DRY.	
Obstructions to Vision	ı- NONE	Type Apch/Lndg	- TOUCH AND GO	·			
			FORCED LANDING				
Condition of Light	- NIGHT(BRIGHT)						
-Personnel Information				**	MED TO		
	.)	Age - 39	Medical Certificate			WAIVERS/	-IMII
Pilot-In-Command		Biennial Flight Review		t Time (H 3200		Hrs - UN	C/NID
Certificate(s)/Rating(s	,	Current - VEC					
<pre>Certificate(s)/Rating(s ATP,CFI</pre>	,	Current - YES Months Since - 6					
Certificate(s)/Rating(s ATP,CFI SE LAND,ME LAND	''	Months Since - 6	Make/Model- UN	K/NR	Last 30	Days- UN	
<pre>Certificate(s)/Rating(s ATP,CFI</pre>	••			K/NR K/NR	Last 30 Last 90		K/NR K/NR

File No 1	96	1/16/89	BRIDGEPORT,CT	A/C Reg. No. N6829Q	Time (Lc	1) - 2032 EST
Occurrence #1 Phase of Operation			WER(TOTAL) - NON-MECHANICA CLIMB	L		
2. FLUID, FUEL - ST	ARVATION		OPER - PILOT IN COMMAND			
Occurrence #2 Phase of Operation			CY		· 	
Occurrence #3 Phase of Operation			ON WITH TERRAIN/WATER OUCHDOWN			
Finding(s) 3. TERRAIN CONDITI	ON - DITC	H 				
Probable Cause						

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE IMPROPER FUEL SELECTOR POSITION AND LOSS OF POWER TO THE ENGINE DUE TO FUEL EXHAUSTION.

File No 153 1/05/89 MARGA	TE,FL A/C Re	g. No. N736BX	Т	ime (Lc1) -	0240 EST	
Basic Information Type Operating Certificate-NONE (GENERATIVE OF Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	AL AVIATION) Aircraft SUBSTAN Fire NONE		Fatal O O	Injuri Serious O O	es Minor 1 1	None O
Aircraft Information Make/Model - CESSNA R172K Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2550 No. of Seats - 4	- 3	TINENTAL IO-360-K IP-FUEL INJECTED 210 HP		Installed/Actall Warning		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 330/006 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(BRIGHT)	<i>,</i> , , , ,		OFF AI Airport D FT LAU Runway Runway Runway	DERDALE EXEC	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND Instrument Rating(s) - AIRPLANE	Biennial Flight Review Current - YES Months Since - 1	Medical Certifica Fligh Total - Make/Model- Instrument- Multi-Eng -	te - VALID ht Time (H 336 104 44 14		Hrs - Days-	T 7 43 85
Narrative WHILE BEING VECTORED TO INTERCEPT THE LOCALIZ THE RPM GAUGE FLUCTUATED. THE PLT APPLIED FUL DURING A SUBSEQUENT OFF-AIRPORT FORCED LANDIN EVIDENCE OF OIL STARVATION. THE ENG DRIVEN OI BECAME LODGED BETWEEN THE HOUSING & THE GEARS HAD FAILED & THAT THE #5 CONNECTING ROD HAD F	L THROTTLE, MIXTURE & PROPELI IG AT NIGHT, THE ACFT COLLIDE L PUMP DRIVE SHAFT HAD FAILE L ALSO, THERE WAS EVIDENCE OF	LER CONTROLS, BUT D WITH TREES. AN I D FROM OVERLOAD AI	THE ENG T EXAM OF TH FTER FOREI	HEN LOST POW E ENG REVEAL GN OBJECT(S)	ER. ED	

File No. - 153 1/05/89 MARGATE,FL A/C Reg. No. N736BX Time (Lc1) - 0240 EST

Occurrence #1
Phase of Operation

LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF

Phase of Operation APPROACH

Finding(s)

1. LUBRICATING SYSTEM, OIL PRESSURE PUMP - FOREIGN OBJECT

- 2. LUBRICATING SYSTEM, OIL PRESSURE PUMP FAILURE, TOTAL
- 3. FLUID, OIL STARVATION
- 4. ENGINE ASSEMBLY, CONNECTING ROD FAILURE, TOTAL
- 5. ENGINE ASSEMBLY SEIZED

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3

IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

6. LIGHT CONDITION - DARK NIGHT

7. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE ENGINE DRIVEN OIL PUMP DUE TO FOREIGN OBJECT(S), WHICH RESULTED IN OIL STARVATION AND SUBSEQUENT ENGINE FAILURE. FACTORS RELATED TO THE ACCIDENT WERE: DARK NIGHT AND TREES IN THE EMERGENCY LANDING AREA.

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraf	t Damage			Inj	urie	s	
-		SUBSTA	NTIAL		Fatal	Serious		Minor	None
Type of Operation -INSTRUCTIONA	L	Fire		Crew	-	0		0	2
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE		Pass	0	0		0	0
Aircraft Information									
Make/Model - PIPER PA-28-161			COMING 0-320-	03G		Installed			
Landing Gear - TRICYCLE-FIXED		ngines - 1				tall Warn	ing	System	- YES
Max Gross Wt - 2325 No. of Seats - 4	Engine li Rated Poi		CIPROCATING-C	ARBURI	=TOR				
NO. OF SeatS - 4	Rated Pol	wer - 	160 HP						
Environment/Operations Information									
Weather Data	Itinerary				•	Proximity			
Wx Briefing - NO RECORD OF BRIEFING Method - N/A		rture Point			ON AIR	PORT			
Completeness - N/A	Destination	BEACH, FL	~		Airport Da	2+2			
Basic Weather - VMC	LOCAL	•			•	R COUNTY			
Wind Dir/Speed- 120/007 KTS	200.12					Ident	- 1	1	
Visibility - 10.0 SM	ATC/Airspace	9		7	Runwaý	Lth/Wid	-	5000/	200
Lowest Sky/Clouds - CLEAR		light Plan				Surface	- A	SPHALT	
Lowest Ceiling - NONE		learance			Runway	Status	- D	RY	
Obstructions to Vision- NONE	Type Apch,	/Lndg	- TRAFFIC PAT	TERN					
Precipitation - NONE Condition of Light - DAYLIGHT									
									. – – – – .
Personnel Information Pilot-In-Command	Age 31		Medical Cert	ificat	te - VALID	MEDICAL-	NO W	AIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review			nt Time (H				
COMMERCIAL, CFI	Current	- YES		-		Last			2
SE LAND, ME LAND	Months Since			el-	17	Last	30 D	ays-	11
	Aircraft Typ	oe - C-152	Instrume Multi-Eng			Last	90 D	ays-	31
Instrument Rating(s) - AIRPLANE									
narrative HE DUAL STUDENT WAS PRACTICING A SHORT FI	EID IANDING THE	ACET TOUCH	ED DOWN JUST 9	TOOLS	OF THE DW	/ A MO845	NIT		
R, BEFORE THE NOSEWHEEL WAS LOWERED, THE									

A/C Reg. No. N81444 File No. - 121 1/07/89 BUNNELL, FL Time (Lcl) - 1630 EST Occurrence #1 UNDERSHOOT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. ALTITUDE - MISJUDGED - DUAL STUDENT 2. DISTANCE - MISJUDGED - DUAL STUDENT SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 4. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION -----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: MISJUDGEMENT OF ALTITUDE AND DISTANCE TO THE RUNWAY BY THE STUDENT PILOT, AND INADEQUATE SUPERVISION BY THE INSTRUCTOR PILOT (CFI). THE EXPOSED (RAISED) RUNWAY LIP WAS A FACTOR.

File No 125 1/1	2/89 TERRA CEIA,FL	A/C Reg. No.	N2439B	Time (Lc1) - 14	115 EST
Basic Information Type Operating Certificate		Aircraft Damage SUBSTANTIAL	Fatal		linor Non
Type of Operation Flight Conducted Under Accident Occurred During	-14 CFR 91	Fire NONE	Crew O Pass O	0	0 1
Aircraft Information Make/Model - PIPER PA-3 Landing Gear - TRICYCLE-F Max Gross Wt - 1670 No. of Seats - 2	IXED Number Engine	e/Model - LYCOMING O Engines - 1 Type - RECIPROCAT ower - 110 HP		Installed/Acti Stall Warning S	
Weather Data Wx Briefing - FSS Method - TELEPHONI Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 220/010 I Visibility - 15.0 Lowest Sky/Clouds - Lowest Ceiling - I Obstructions to Vision- I Precipitation - I Condition of Light - I	Itinerary Last Dep E FORT L Destinati SARASO KTS SM ATC/Airspa 2000 FT SCATTERED Type of NONE Type of NONE Type Apc NONE DAYLIGHT	TA,FL ce Flight Plan - NONE	OFF AI Airport [Runway Runway Runway TIONARY LANDING	/ Ident - N/ / Lth/Wid - N/ / Surface - N/ / Status - N/	A A A
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 32 Biennial Fligh Current Months Sin Aircraft T	Medical of Review - N/A Tot ce - N/A Mak ype - N/A Ins	Certificate - VALII Flight Time (F al - 92 e/Model- 61 trument- UNK/NR ti-Eng - UNK/NR	D MEDICAL-NO WA Hours) Last 24 Hr Last 30 Da Last 90 Da	AIVERS/LIMIT
Instrument Rating(s)	- NONE 				
Narrative HE STUDENT PLT STATED THAT DURII ALFUNCTION. HE ELECTED TO MAKE A O STOP THE ACFT BEFORE IT CONTII ROBLEMS.	A PRECAUTIONARY LANDING IN A	SOD FIELD. AFTER LA	NDING WITH A TAILWIN	ND, HE WAS UNAB	

File No. - 125 1/12/89 TERRA CEIA,FL A/C Reg. No. N2439B Time (Lc1) - 1415 EST OVERRUN Occurrence #1 Phase of Operation LANDING - ROLL Finding(s) 1. PRECAUTIONARY LANDING - PERFORMED - PILOT IN COMMAND 2. WEATHER CONDITION - TAILWIND 3. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND ON GROUND COLLISION WITH TERRAIN/WATER Occurrence #2 Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - DITCH ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE IMPROPER IN-FLIGHT PLANNING/DECISION BY THE STUDENT PILOT. FACTORS RELATED TO THE ACCIDENT WERE: TAILWIND CONDITIONS DURING THE LANDING AND THE PROXIMITY OF THE DITCH TO THE SELECTED LANDING AREA.

File No 130 1/13/89	SEBRING, FL	A/C Reg. No. N74	4473	T i	me (Lc1) -	1004 EST	
Basic Information Type Operating Certificate-NONE (G	ENERAL AVIATION)	Aircraft Damage			Injuri	es	
		SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -PERSONA		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR Accident Occurred During -LANDING	i	NONE	Pass	0	0	0	0
Aircraft Information							
Make/Model - BELLANCA 14-13-2		del - FRANKLIN 6A-3	335-B1		nstalled/Ac		
Landing Gear - TAILWHEEL-RETRACTA					all Warning:	System	- UNK/NR
Max Gross Wt - 2150		- RECIPROCATING	G-CARBURETO	IR .			
No of Seats - 4	Rated Power	- 180 HP					
Environment/Operations Information							
Weather Data	Itinerary		Δ		roximity	•	
Wx Briefing - NO RECORD OF BRI				OFF AIR	PORT/STRIP		
Method - N/A	LAKE PLACII),FL .					
Completeness - N/A Basic Weather - VMC	Destination		A 1	rport Da	ita		
Wind Dir/Speed- CALM	SEBRING, FL			Dunway	Ident -	N/A	
Visibility - 10.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - 12000 FT		ot Dian - NONE			Surface -		
Lowest Ceiling - NONE		rance - NONE		,	Status -	•	
Obstructions to Vision- NONE		dg - FORCED LA	ANDING	Ranway	Status	11/ 6	
Precipitation - NONE	. , , , , ,						
Condition of Light - DAYLIGHT							
Department To Constant to the							
Personnel Information Pilot-In-Command	Age - 52	Medical Co	ertificate	- VALTD	MEDICAL-WAI	VERS/LIM	тт
Certificate(s)/Rating(s)	Biennial Flight Rev			Time (Ho		VERS/ EIN	- '
PRIVATE	Current	YES Total	- 24	.20	Last 24	Hrs -	0
SE LAND	Months Since	· 4 Make/	Model-	67	Last 30	Davs-	7
	Aircraft Type	4 Make/N C-172 Instru	ument- UNK/	NR	Last 90	Davs-	32
		Multi	-Eng - UNK/	NR	Last 30 Last 90 Rotorcra	ft - UNI	K/NR
Instrument Rating(s) - AIRPLA	NE .						
Narrative JRING FLT AT AN ALT OF APRX 1000 FT. TH	E ENG LOST POWER. ATTEMP	S TO RESTART THE	ENG WERE UN	ISUCCESSE	UL. SUBSEQU	ENTLY.	
HE ACFT COLLIDED WITH TREES DURING AN E HRT NO: 19983) HAD FAILED & ALLOWED THE HG LOST POWER & THE PISTONS CONTACTED T	MERGENCY LANDING. AN EXAM CAMSHAFT GEAR TO ROTATE	OF THE ENG REVEAU TO AN OUT-OF-TIME	ED THE CAM	GEAR SN SUBSEQL	IAP RING (FR JENTLY, THE	_ ,	
G LOST POWER & THE PISTONS CONTACTED T	HE INTAKE & EXMAUST VALVE	S. THE ENG HAD A	IUIAL IIME	UF APKX	1205 HKS.		

1/13/89 File No. - 130 SEBRING, FL A/C Reg. No. N74473 Time (Lc1) - 1004 EST LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Occurrence #1 Phase of Operation CRUISE - NORMAL Finding(s) 1. ENGINE ASSEMBLY, OTHER - FAILURE, TOTAL 2. ENGINE ASSEMBLY, TIMING GEAR - DISCONNECTED Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 3. OBJECT - TREE(S) ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

FAILURE OF THE CAM GEAR SNAP RING, WHICH ALLOWED THE CAMSHAFT GEAR TO BECOME DISCONNECTED. FACTORS RELATED TO THE ACCIDENT WERE TREES IN THE EMERGENCY LANDING AREA.

Basic Information					. .		
Type Operating Certificate-ON-DI	EMAND AIR TAXI	Aircraft Dama	ge	Fatal			Nama
Name of Carrier -FLIG Type of Operation -NON: Flight Conducted Under -14 C	HI EAPRESS, INC. SCHED DOMESTIC CAPGO	Fire	Crew	7 a ta i			None 0
Flight Conducted Under -14 C	FR 135	NONE	Pass		_		0
Accident Occurred During -LAND	ING				O 1 O 0 Installed/Activated tall Warning System Proximity RPORT/STRIP Ata Ident - N/A Lth/Wid - N/A Surface - N/A Status - N/A MEDICAL-NO WAIVERS, Durs) Last 24 Hrs - Last 30 Days- Last 90 Days-		
Aircraft Information							
Make/Model - PIPER PA-32-300			IO-540-K1A5				
Landing Gear - TRICYCLE-FIXED		ngines - 1		St	all Warnin	g System	- YES
Max Gross Wt - 3400		ype - RECIP-FU					
No. of Seats - 7	Rated Po	wer - 300 H	P 				
Environment/Operations Information	n Itinerary			A			
Weather Data Wx Briefing - NO RECORD OF B	rture Point						
Method - N/A	SKIEFING LAST DEPA SAME AS			UFF AIR	PURI/SIRIP	,	
Completeness - N/A	Destinatio			Airport Da	ta		
Basic Weather - VMC		RSBURG,FL		A II poi t bo	· ca		
Wind Dir/Speed- 010/005 KTS	31 1212	Nobolid, i E		Runwav	Ident -	N/A	
Visibility - 7.0 SM	ATC/Airspac	e					
Lowest Sky/Clouds - 8000							
	Type of C						
Obstructions to Vision- NONE	Type Apch	/Lndg - FORC	ED LANDING	•			
Precipitation - NONE		· _					
Condition of Light - NIGHT	(DARK)						
Personnel Information							
Pilot-In-Command	Age - 29 Biennial Flight	Medic				WAIVERS/	LIMII
Certificate(s)/Rating(s)	Bienniai Flight	Review	Filgi	nt Time (Ho	urs)	Una -	0
ATP SE LAND,ME LAND	Current Months Sins	- YES I	otai - ako/Madal-	1623	Last 24	urs -	24
SE LAND, ME LAND	Months Sinc	e - 1 M	ake/Model-	105	Last 30	Days-	52 52
•	Afficiant Ty	ре - РА-32 — 1 М	ulti-Eng -	830	Last 30	Days	52
Instrument Rating(s) - AIR	PLANE	•					
E PILOT STATED THAT DURING THE INIT TURNED BACK TOWARD THE AIRPORT. ABO							
ALL POWER. SUBSEQUENTLY. THE ACFT N							
OM THE AIRPORT. AN EXAM OF THE ENGI							
MAGE OF THE ENGINE.	THE WO CONNE			,		 ,	

File No. - 141 1/17/89 FORT MYERS, FL A/C Reg. No. N4763T Time (Lcl) - 0630 EST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation CLIMB Finding(s) 1. ENGINE ASSEMBLY, CONNECTING ROD BOLT - FAILURE, TOTAL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 2. LIGHT CONDITION - DARK NIGHT 3. TERRAIN CONDITION - SOFT 4. TERRAIN CONDITION - WET ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE #5 CONNECTING ROD BOLT. FACTORS RELATED TO THE ACCIDENT WERE: DARK NIGHT AND THE SOFT AND WET (MARSHY) TERRAIN CONDITIONS IN THE EMERGENCY LANDING AREA.

Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft Damage SUBSTANTIAL		Fatal	Inju Serious	Minor	None
Type of Operation -INSTRUCTIONA	L.	Fire	Crew	0	0	0	. 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAXI		NONE	Pass Other	0	0 0	0	0 2
-Aircraft Information							,
Make/Model - CESSNA 152		Model - LYCOMING 0-23	35-L2C		Installed/		
Landing Gear - TRICYCLE-FIXED		ngines - 1			Stall Warni	ng System	- YES
Max Gross Wt - 1670 No. of Seats - 2	Engine Ty Rated Pow		G-CARBURE	IOR			
No. of Seats - 2	Rated Pow	/er - 110 HP					
-Environment/Operations Information	T # 100 = 00 = 00				B		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary	ture Point		Airport ON AIR	Proximity		
Method - N/A	SAME AS			UN AIR	PURI		
Completeness - N/A	Destination			Airport D	12+2		
Basic Weather - VMC	LOCAL	•		HERLON			
Wind Dir/Speed- CALM	2007/2					- UNK/NR	
Visibility - 7.0 SM	ATC/Airspace	:		,	Lth/Wid		
Lowest Sky/Clouds - 10000 FT SCAT	TERED Type of F1	ight Plan - NONE			Surface	•	
Lowest Ceiling - NONE	Type of C1	earance - NONE		Runway	Status	- UNK/NR	
Obstructions to Vision- NONE	Type Apch/	Lndg - NONE					
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information							
Pilot-In-Command	Age - 46				MEDICAL-W	AIVERS/LIM	IIT
Certificate(s)/Rating(s)	Biennial Flight		_	nt Time (F	•		_
STUDENT	Current	- N/A Total		42	Last 2		1
	Months Since Aircraft Typ			2 0	Last 30 Last 90		10
	ATTCTATE TYP	ne - N/A INSTR	ament-	O	Last 90	Days-	21
Instrument Rating(s) - NONE	-					*	
PER PA-28, N32816, WAS PARKED ON A RAMP W							
PARK IN THE SAME AREA AFTER THE PILOT HAD	LANDED. SUBSEQUE	NTLY, THE CESSNA'S RI	IGHT WING	MOVED IN MINOR DAM	ITO THE ARC	OF	

A/C Reg. No. N89803 File No. - 151 1/19/89 JACKSONVILLE, FL File No. - 151 1/19/89 JACKSONVILLE, FL A/C Reg. No. N89803 Time (Lcl) - 1600 EST

Phase of Operation TAXI - FROM LANDING

Occurrence #1 ON GROUND COLLISION WITH OBJECT

Finding(s)

- 1. OBJECT AIRCRAFT PARKED
- 2. CLEARANCE MISJUDGED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE CESSNA 152 PILOT MISJUDGED CLEARANCE BETWEEN HIS AIRCRAFT AND THE PARKED PIPER PA-28.

Type Operating Certific	ate-NONE (GEN	the state of the s	ft Damage	_	Injuri		
Type of Operation	DEDCOMA	MINOR Fire		Fatal w O	Serious O	Minor O	None
Flight Conducted Under	-PERSONAL		Cre Pas		0	0	1
Accident Occurred Durin		NONE	Oth		ŏ	ŏ	1.
-Aircraft Information							
Make/Model - PIPER P		Eng Make/Model - L			Installed/Ad		
Landing Gear - TRICYCL	E-FIXED	Number Engines -			Stall Warning	g System	- YES
Max Gross Wt - 2150		J 7.	ECIPROCATING-CARBU	RETOR			
No. of Seats - 4		Rated Power -	150 HP				
-Environment/Operations In	formation			A *	D		
Weather Data	n	Itinerary		Airport ON AI	Proximity		
<pre>Wx Briefing - UNK/N Method - UNK/N</pre>		Last Departure Poir SAME AS ACC/INC	τ	UN AI	RPURI		
Completeness - UNK/N		Destination		Airport	na+a		
Basic Weather - VMC	IX.	LOCAL		HERLO			
Wind Dir/Speed- CALM		LOCAL				UNK/NR	
Visibility - 7.	O SM	ATC/Airspace			y Lth/Wid -		
Lowest Sky/Clouds -		CATTERED Type of Flight Plan	- NONE		y Surface -		
Lowest Ceiling -	NONE	Type of Clearance	- NONE			UNK/NR	
Obstructions to Visio		Type Apch/Lndg	- NONE				
	- NONE					_	
Condition of Light	- DAYLIGHT						
-Personnel Information							
Pilot-In-Command	- \	Age - 65	Medical Certific			VERS/LI	WII
Certificate(s)/Rating(s)	Biennial Flight Review Current - UNK/N		ght Time († 235	Last 24	Una - 11	AUZ /AID
PRIVATE		Months Since - UNK/N			Last 24 Last 30		•
CE LAND		Aircraft Type - UNK/N			Last 90		
SE LAND			ik Tris traincire			Days C	
SE LAND		3.	Multi-Eng -	UNK/NR	Rotorcra	aft - U	NK/NR

File No 151	1/19/89 JACKSONVILLE,FL	A/C Reg. No. N32816	Time (Lcl) - 1600 EST
	GROUND COLLISION WITH OBJECT NDING - ENGINE(S) OPERATING		
Finding(s) 1. OBJECT - AIRCRAFT MO 2. CLEARANCE - MISJUD	VING ON GROUND GED - PILOT OF OTHER AIRCRAFT		
Probable Cause			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE CESSNA 152 PILOT MISJUDGED CLEARANCE BETWEEN HIS AIRCRAFT AND THE PARKED PIPER PA-28.

	DAYTONA BEACH, FL . A/C F	Reg. No. N2860W	Time	(Lc1) - 2040 ES	iT
Basic Information					
Type Operating Certificate-NONE (G	•	ft Damage		Injuries	
	SUBST/	ANTIAL	Fatal Se	rious Minor	None
Type of Operation -PERSONAL	L Fire	Crew	0 .	0 0	1
Flight Conducted Under -14 CFR	91 NONE	Pass	0	0 0	2
Accident Occurred During -STANDING	a	Other	0	0 0	1
Aircraft Information					
Make/Model - BEECH A36	Eng Make/Model - CO	ONTINENTAL IO-520-BA	ELT Inst	alled/Activated	I - YES/NO
Landing Gear - TRICYCLE-RETRACTABLE	LE Number Engines -	1	Stall	Warning System	r - YES
Max Gross Wt - 3600	Engine Type - RE	ECIP-FUEL INJECTED			
No. of Seats - 6	Rated Power -	285 HP			
Environment/Operations Information					
Weather Data	Itinerary		Airport Prox	imity	
Wx Briefing - NO RECORD OF BRI	EFING Last Departure Point	t	ON AIRPORT	•	
Method - N/A	SAME AS ACC/INC				
Completeness - N/A	Destination		Airport Data		
Basic Weather - VMC	DAYTONA BEACH, FL		SPRUCE CRE	FK	
Wind Dir/Speed- 140/003 KTS	SALTOIN SEASILE		Runway Ide		
Visibility - 10.0 SM	ATC/Airspace			/Wid - UNK/NR	e de la companya de
Lowest Sky/Clouds - 5500 FT		- NONE	Runway Sur		4.
Lowest Ceiling - NONE	Type of Clearance		Runway Sta		
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE	mannay sta	511.1, 11.1	
Precipitation - NONE	Type Apelly Ellag	140142			
Condition of Light - NIGHT(DA	DK)				
Personnel Information					
Pilot-In-Command	Age - 52	Medical Certificat			MIT
Certificate(s)/Rating(s)	Biennial Flight Review	Fligh	it Time (Hours)	
COMMERCIAL, ATP	Current - YES	Total - 2	8000	Last 24 Hrs -	2
SE LAND, ME LAND	Months Since - 3	-Make/Model-	200	Last 30 Days-	40
	Aircraft Type - DC-9	Instrument-	3500	Last 90 Days-	75
		Multi-Eng - 2	6000		

File No. - 173 1/26/89 DAYTONA BEACH,FL A/C Reg. No. N2860W Time (Lcl) - 2040 EST

Occurrence #1 ON GROUND COLLISION WITH OBJECT Phase of Operation STANDING - ENGINE(S) OPERATING

Finding(s)

- 1. OBJECT VEHICLE
- 2. VISUAL LOOKOUT INADEQUATE DRIVER OF VEHICLE
- 3. PROCEDURES/DIRECTIVES NOT FOLLOWED DRIVER OF VEHICLE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE DRIVER OF THE AUTOMOBILE TO MAINTAIN AN ADEQUATE VISUAL LOOKOUT AND TO YIELD THE RIGHT OF WAY TO THE AIRCRAFT.

File No 174 1/27/89 PAI	NACEA,FL A/C	Reg. No. N4506D	. Т	Time (Lc1) - 0618 ES		
-Basic Information Type Operating Certificate-NONE (GENI Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	SUBS1 Fire	aft Damage FANTIAL Crew Pass	-	Injur Serious O O	ries Minor 2 2	None 0 0
Accident Occurred During -TAKEOFF						
-Aircraft Information Make/Model - BEECH G-35 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2775 No. of Seats - 4	Eng Make/Model - (Number Engines -	CONTINENTAL E-225-8	ETOR	Installed/A	ng System	- YES
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEF: Method - N/A Completeness - N/A Basic Weather - IMC Wind Dir/Speed- CALM Visibility250 SM Lowest Sky/Clouds - PART OBS Lowest Ceiling - NONE Obstructions to Vision- FOG Precipitation - NONE Condition of Light - DAWN	Itinerary Last Departure Poir PANACEA,FL Destination NATCHEZ,MS ATC/Airspace Type of Flight Plar Type of Clearance Type Apch/Lndg	n - NONE	Airport ON AIR Airport E WAKULL Runway Runway Runway	Proximity PORT Data A COUNTY Ident Lth/Wid - Surface -	. 36 . 2900/	175
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL, FLT ENG SE LAND	Age - 63 Biennial Flight Review Current - YES Months Since - 7 Aircraft Type - C-172	Total - Make/Model-	ht Time (F	lours)	Hrs - U Days-	
Instrument Rating(s) - AIRPLANE	RECEIVED A WEATHER BRIEFING.	NO PECOPO DE A RPIE		OCATED HE		

File No. - 174 1/27/89 PANACEA, FL A/C Reg. No. N4506D Time (Lcl) - 0618 EST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. WEATHER CONDITION - FOG 2. WEATHER SERVICE - NOT USED - PILOT IN COMMAND 3. OVER CONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 4. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND 5. SPATIAL DISORIENTATION - PILOT IN COMMAND IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 6. OBJECT - TREE(S) ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

PILOTS LOSS OF CONTROL WHEN ENTERING THE FOG BANK DURING THE TAKEOFF, DUE TO SPATIAL DISORIENTATION.

-Basic Information Type Operating Certificate-NONE (GENERA	ι Δνιδτίον)	Aircraft Dama	ane		Injur	ries	
	2 4714/10/1/	SUBSTANTIAL	_	Fatal	Serious	Minor	None
Type of Operation -PERSONAL		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Pass	0	0	0	1
-Aircraft Information							
Make/Model - CESSNA T310R Landing Gear - TRICYCLE-RETRACTABLE		'Model - CONTINEM ngines - 2	NTAL TS10-520-				
Max Gross Wt - 5500	Engine Ty		JEL INJECTED	3	tall Warnir	ig system	- 162
No. of Seats - 6	Rated Pov	•	-IP				
Environment/Operations Information			 				
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary	ture Point		Airport I ON AIR	Proximity		
Method - N/A	SAME AS			. UN AIR	PURI		
Completeness - N/A	Destination			Airport Da	ata		
Basic Weather - VMC	LOCAL			FERGUS	ON		
Wind Dir/Speed- 080/006 KTS	. = - /					18	
Visibility - 7.0 SM Lowest Sky/Clouds - CLEAR	ATC/Airspace	e ight Plan - NONE	· · · · · · · · · · · · · · · · · · ·		Lth/Wid - Surface -		40
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE		earance - NONE				DRY	
Obstructions to Vision- NONE	Type Apch/			Nannay	514145	S.C.	
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 42	Medio	cal Certificat	e - VALID	MEDICAL-WA	IVERS/LIM	IT .
Certificate(s)/Rating(s)	Biennial Flight			nt Time (H			
COMMERCIAL	Current		Total -	500	Last 24	Hrs - UN	K/NR
SE LAND, ME LAND	Months Since	_ -	Make/Model-	65	Last 30	Days-	16
and the control of th	Aircraft Typ		Instrument- Multi-Eng -		Last 90	Days-	16
Instrument Rating(s) - AIRPLANE							
-Narrative PLT REPORTED THAT AIRSPEED DIMINISHED WHI	LE ON ETNAL ADOL	DESILITING THE	I ANDING SHOOT	. טב דחב טי	AV DUDING	THE	
DING ROLL HE LOST CONTROL OF THE ACFT. IT							
DING RULL HE LOST CONTROL OF THE ACFT. IT FUNCTION OF THE ACFT.	IRAVELLED OFF THE	RWY AND INTO A	DIICH. THE PL	דטא ענט וי	REPORT ANY		

File No. - 190 1/28/89 PENSACOLA, FL A/C Reg. No. N2638N Time (Lcl) - 1530 CST Occurrence #1 UNDERSHOOT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. AIRSPEED(VREF) - NOT MAINTAINED - PILOT IN COMMAND 2. DISTANCE - MISJUDGED - PILOT IN COMMAND 3. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 4. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 5. TERRAIN CONDITION - DITCH ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN THE PROPER AIRSPEED DURING THE APPROACH RESULTING IN LANDING SHORT OF THE RUNWAY AND FAILURE TO MAINTAIN DIRECTIONAL CONTROL DURING THE LANDING ROLL.

asic Information Type Operating Certificate-NONE (GE)	NERAL AVIATION)	Aircraft	Damage			Ir	njuries	
		SUBSTAN			Fatal			None
Type of Operation -SIGHTSEE	ING	Fire		Crew	0	. 0	1	0
Flight Conducted Under -14 CFR 9	1	NONE	į.	Pass	0	0	2	0
Accident Occurred During -DESCENT		· 						
ircraft Information								
Make/Model - WACO YMF			OBS R-755-B2				ed/Activate	
Landing Gear - TAILWHEEL-ALL FIXED	•	gines - 1				Stall War	ning Syste	m - NO
Max Gross Wt - 2650	Engine Typ		IPROCATING-C	CARBURE	TOR			
No. of Seats - 3	Rated Powe	er - 	275 HP 					
nvironment/Operations Information								
leather Data	Itinerary					Proximit		
Wx Briefing - NO RECORD OF BRIE	•				OFF A	IRPORT/ST	RIP	
Method - N/A	KEY WEST					ъ.		
Completeness - N/A	Destination				Airport	Data		
Basic Weather - VMC	LOCAL				D	Talama	A1 / A	
Wind Dir/Speed- 130/010 KTS	ATC/Airspace					y Ident v Lth/Wid		
Visibility - 10.0 SM			NONE				•	
Lowest Sky/Clouds - 2000 FT : Lowest Ceiling - NONE	Type of Cle					y Surface		
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Cre				Runwa	y Status	- N/A	
Precipitation - NONE	· Type Apcil/1	Lilug	NONE					
Condition of Light - DAYLIGHT		•						
ersonnel Information								
Pilot-In-Command	Age - 59		Medical Cert	ificat	e - VALT	D MEDICAL	-WATVERS/I	IMIT
Certificate(s)/Rating(s)	Biennial Flight F		medical cell		t Time (WAIVENS, E	. 111111
ATP	_	- YES	Total				24 Hrs -	4
SE LAND, ME LAND	Months Since	-	Make/Mod				30 Davs-	20
,	Aircraft Type	_	Instrume				: 90 Days-	60
er 🕶	• • • • • • •	· -	Multi-Er	ng - (6000		.+ ,-	
Instrument Rating(s) - AIRPLAN	E							
Innotive								
larrative LT STATED THEY HAD JUST PASSED OVER .	A SCHOOL OF DOLDUTAL SIL	JTIE ON 4 C	TOUTSEETNO E	נוד מעכי	D WATER	AT APOUT	100 ET	
VERSED COURSE TO THE LEFT IN ORDER TO								
ACFT ROLLED INTO A VERT BANK & THE								
HE HAD OBSERVED A C-130 TYPE ACFT FL								
HE & HIS WIFE RECALLED HE HAD BEEN M.								
DOWN INTO THE SEAT DURING THE TURN.								ı
		E ISL SIEER	TURN AND WE	KE IN	ITE ZNU	DANK UF A	טפ וטטםו	
WHEN A "GUST" WAS FELT & THE NEXT TH			D LIDSTRE DOL	IN NET	THED DAY	DECVITED	SEETNG	

File No. - 135 2/03/89 KEY WEST,FL A/C Reg. No. N99Y Time (Lc1) - 1130 EST

Occurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation MANEUVERING

Finding(s)

1. WAKE TURBULENCE - ENCOUNTERED - PILOT IN COMMAND
2. ALTITUDE - INADEQUATE - PILOT IN COMMAND
3. MANEUVER - EXCESSIVE - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation DESCENT - UNCONTROLLED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE INABILITY OF THE PLT TO MAINTAIN CONTROL AFTER ENCOUNTERING HIS OWN WAKE TURBULENCE AT A LOW ALTITUDE DURING A STEEP
TURNING MANEUVER.

File No 134 2/	'04/89 CLEARWA	TER,FL	A/C Reg.	No. N3697Q	Т	ime (Lcl)	- 1130 EST	
Basic Information Type Operating Certificat	·	AVIATION)	Aircraft D DESTROYED Fire)	Fatal	Inju Serious 2	ries Minor O	None O
Type of Operation Flight Conducted Under Accident Occurred During	-LANDING		ON GROUND	-	ass 0	0	0	0
Aircraft Information Make/Model - BEECH A23 Landing Gear - TRICYCLE- Max Gross Wt - 2550 No. of Seats - 4	3-24	Number Eng	Model - LYCOM gines - 1 be - RECIF er - 18	P-FUEL INJECT	S	Installed/ Stall Warni		- YES-UNK/N - YES
Environment/Operations Info Weather Data Wx Briefing - UNK/NR Method - UNK/NR	ormation	Itinerary Last Depar CLEARWAT			Airport ON AIR	Proximity PPORT		
Completeness - WEATHER Basic Weather - VMC Wind Dir/Speed- 010/005 Visibility - 7.0 Lowest Sky/Clouds - Lowest Ceiling - Obstructions to Vision- Precipitation - Condition of Light -	KTS SM 1000 FT SCATTER NONE NONE NONE	Destination LOCAL ATC/Airspace RED Type of F1	ight Plan - N earance - N -ndg - G		Runway Runway Runway	ATER	- ASPHALT	75
		ge - 66 iennial Flight			icate - VALIC		AIVERS/LIM	IIT
COMMERCIAL, CFI SE LAND, ME LAND, SE SE	-		- YES - 4	Total	- 12000 - 35 - 1450	Last 2 Last 3	4 Hrs - UN O Days- O Days-	IK/NR 20 50
Instrument Rating(s)	- AIRPLANE							
Narrative N FINAL APCH AFTER A TRNG FLT, PPLIED & WITNESSES ON GRND HEA RIED A 180 DEG TURN BACK TO RW ETENT BUT ON LT TANK WHICH HOL BOUT 4 HRS SINCE TOPPED OFF TO T WING TANK AREA HAD LESS FIRE EING ON THE LT TANK; THE CFI S HE ENG QUIT EXCEPT BEING IN A	ARD ENG REV UP OK NY. ACFT HIT FENC DS 30 GALS, 26 G D 60 GALS CAPACIT E DAMAGE THAN RT N GAID HE THOUGHT I	. ABOUT 1/2 WAY ES AND CONST MA ALS USABLE. THE 7. NO FUEL FOUNI VING AREA WHICH F WAS ON THE RT	DOWN RWY AT TERIAL & BURS ACFT BURNS A D IN FUEL MAN CONTAINED MO TANK. THE CF	ABOUT 200 FT ST INTO FLAME ABOUT 8 GPH & NIFOLD & ENG DRE FUEL. THE	, THE ENG SPU S. FUEL SEL W HAD FLOWN FO WAS TEST RUN STU PLT RECA	JTTERED & C JAS FOUND OF DR A TOTAL OK OK AFTER AN ALLED THE F	FI UT OF OF CCIDENT. UEL SEL	

File No. - 134 2/04/89 CLEARWATER, FL A/C Reg. No. N3697Q Time (Lcl) - 1130 EST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation GO-AROUND (VFR) Finding(s) 1. FLUID, FUEL - STARVATION FUEL TANK SELECTOR POSITION - IMPROPER - PILOT IN COMMAND(CFI) 3. CHECKLIST - NOT USED - PILOT IN COMMAND(CFI) Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - EMERGENCY Finding(s) 4. EMERGENCY PROCEDURE - IMPROPER - PILOT IN COMMAND(CFI)

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL STARVATION DUE TO THE CFI DEPLETING THE FUEL SUPPLY FROM ONE OF TWO TANKS AND FAILING TO SELECT THE FULLEST TANK FOR LANDING. CONTRIBUTING TO THE ACCIDENT WAS THE CFI'S IMPROPER DECISION TO TURN BACK TO THE AIRPORT WHEN INSUFFICIENT ALTITUDE WAS AVAILABLE TO COMPLETE THE MANEUVER.

----Probable Cause----

File No 194 2/08/89 GREE	NVILLE, FL A/C	A/C Reg. No. N2O4AP Time (Lc1) - 1125 ES				T
Basic Information Type Operating Certificate-EXTERNAL LO		ft Damage		Inju		
7		ANTIAL	Fatal			None
Type of Operation -LOGGING	Fire	Crev	_	0	0	2
Flight Conducted Under -14 CFR 133 Accident Occurred During -MANEUVERING		Pass	-	0	0	0
Aircraft Information		·				
Make/Model - BELL TH-1L		YCOMING T53-L-13B				
Landing Gear - SKID	Number Engines -		5	tall Warni	ng System	- NU
Max Gross Wt - 9500 No. of Seats - 11	Engine Type - T Rated Power -	1400 HP				
Environment/Operations Information Weather Data	Itinerary		Ainpont	Proximity		
Wx Briefing - NO RECORD OF BRIEFIN		+		RPORT/STRI	D	
Method - N/A	GREENVILLE, FL		OII AI	KFOKT/ STKI	F	
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- 360/004 KTS			Runway	Ident	- N/A	
Visibility - 6.0 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		Runway	Status	- N/A	
Obstructions to Vision- FOG	Type Apch/Lndg	- FORCED LANDING				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information	·				.	
Pilot-In-Command	Age - 38	Medical Certifica			O WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s) ATP</pre>	Biennial Flight Review Current - YES	Total -	ght Time (H		1 Hns -	4
AIF	Months Since - 4	Make/Model-		La5(2	4 пгэ - О Пауе-	
HELICOPTER	Months Since - 4 Aircraft Type - TH-1L	Make/Model- Instrument-	82	last 9	O Days-	32
HELIOOI IEK	All Grant Type III IL	THIS CI GINETIC	02		raft -	
		•				
Instrument Rating(s) - HELICOPTER						
Narrative						
EXPERIENCED LOSS OF TRANSMISSION DRIVE A	ND PERFORMED AN AUTOROTATIO	N INTO TREES. EXAM	NATION OF	THE		
ISMISSION INDICATED THE SPRAG CLUTCH HAD		=		_	R	

Time (Lc1) - 1125 EST A/C Reg. No. N2O4AP File No. - 194 2/08/89 GREENVILLE, FL AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #1 Phase of Operation MANEUVERING Finding(s) 1. ROTOR DRIVE SYSTEM, CLUTCH ASSEMBLY - IMPROPER 2. MAINTENANCE, INSTALLATION - IMPROPER - COMPANY MAINTENANCE PSNL 3. ROTOR DRIVE SYSTEM, CLUTCH ASSEMBLY - FAILURE, TOTAL 4. ROTOR DRIVE SYSTEM - LOSS.TOTAL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - EMERGENCY Finding(s) 5. OBJECT - TREE(S) 6. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INSTALLATION OF THE IMPROPER SPRAG CLUTCH ASSEMBLY BY THE OWNERS MAINTENANCE PERSONNEL RESULTING IN FAILURE OF THE SPRAG CLUTCH AND THE LOSS OF TRANSMISSION DRIVE.

File No 200 2/08/89 MELBO	URNE, FL	A/C Reg. No. N	81859	-	Time (Lcl)	1751 ES	Т
Type Operation Type of Operation -FERRY Flight Conducted Under -14 CFR 91	L AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal O O	Injur Serious O O	ries Minor 1 O	None 0 0
Accident Occurred During -APPROACH							
Aircraft Information Make/Model - CESSNA T210L Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3800 No. of Seats - 6	Eng Make/M Number Eng Engine Typo Rated Powe	e - RECIP-FUEL		Ś	Installed/A Stall Warnir	ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	FORT PIER			OFF A	Proximity IRPORT/STRIF	,	
Completeness - N/A Basic Weather - IMC Wind Dir/Speed- 030/010 KTS Visibility - 6.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 800 FT BROK Obstructions to Vision- HAZE Precipitation - NONE		ght Plan - NONE arance - SPECIAL	VFR	Runway Runway Runway	JRNE REGIONA	04 3002/ ASPHALT	100
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND HELICOPTER	Age - 55 Biennial Flight Ro Current Months Since Aircraft Type	eview - YES Tota - 20 Make		t Time (F 5000 1200	MEDICAL-WA Hours) Last 24 Last 30 Last 90	Hrs - Days-	MIT 6 25 100
			i-Eng - 1		Rotorcr		1000
Instrument Rating(s) - AIRPLANE							7
Narrative HE ACFT WAS BEING FERRIED TO MELBOURNE BY A CINGINE RUN-UP REVEALED A 500-600 RPM MAGNETO INFORMATION FOR THE PLT HAD WORK HAT WHILE ON A 3-MILE FINAL TO RWY 4 AT MELBOURNE. THE ACFT COLLIDED WITH TREES AND THE GROUP THE ANK POSITION. NO FUEL SYSTEM LEAKS WERE HE LEFT TANK CONTAINED 25 GALLONS BUT APPEARS OW WHEN TESTED. THE RT MAG DROP WAS 700 RPM INTENTION OF THE REST TO THE REST MAG DROP WAS TO THE	DROP; THE LEFT TANK ODNE THAT REDUCE DURNE, THE ENGINE O DUND DURING A FORCE EVIDENT. FURTHER I ED TO BE 3/4 FULL.	C WAS 3/4 FULL AND O THE MAG DROP TO QUIT. HE SAID HE S ED LANDING. THE FU EXAMINATION REVEAL THE RT FUEL GAUGE	THE RIGHT 200-250 RP WITCHED TH EL SELECTO ED 3 OZ OF WAS ACCUR	TANK HAD M. THE PL E SELECTO R WAS FOL FUEL IN ATE AND T) APPROX 15 .T REPORTED)R TO THE OT JND IN THE .THE RT TANK .THE LEFT REA	GALLONS HER , D	

File No. - 200 2/08/89 MELBOURNE, FL A/C Reg. No. N81859 Time (Lcl) - 1751 EST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 2. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT - PERFORMED - PILOT IN COMMAND 3. FUEL TANK SELECTOR POSITIÓN - IMPROPER - PILOT IN COMMAND 4. FLUID, FUEL - STARVATION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - EMERGENCY Finding(s) 5. OBJECT - TREE(S) IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 6. TERRAIN CONDITION - HIGH VEGETATION ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO ACCURATELY DETERMINE FUEL QUANTITY PRIOR TO DEPARTURE FOLLOWED BY HIS FAILURE TO OPERATE THE ENGINE ON THE FULLEST FUEL TANK RESULTING IN A FUEL TANK BEING RUN DRY RESULTING IN ENGINE FAILURE WHILE ON SHORT FINAL APPROACH AT HIS DESTINATION.

File No 136 2/10/89 FE	RNANDINA BCH,FL	A/C Reg. No. N	926SA	Т	1430 EST	EST		
Basic Information Type Operating Certificate-NONE (GEN	ERAL AVIATION)	Aircraft Damage SUBSTANTIAL		Fatal	Injur Serious	ies Minor	None	
Type of Operation -INSTRUCTI	ONAI	Fire	Crew	0	0	0	1	
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Pass	Ö	Ö	Ō	Ó	
Accident occurred buring -Landing								
Aircraft Information								
Make/Model - PIPER PA-38-112	Eng Make/M	odel - LYCOMING 0-:	235-L2C	ELT	Installed/A	ctivated	- YES/N	
Landing Gear - TRICYCLE-FIXED	Number Eng				tall Warnir	ng System	- YES	
Max Gross Wt - 1670	Engine Type	e - RECIPROCATII	NG-CARBURET	OR				
No. of Seats - 2	Rated Powe	~ - 112 HP						
Weather Data	Itinerary			Airport	Proximity			
Wx Briefing - NO RECORD OF BRIEF		ure Point		ON AIR				
Method - N/A	JACKSONVI	LLE,FL						
Completeness - N/A	Destination	·	4	irport D	ata			
Basic Weather - VMC	SAME AS A	CC/INC		FERNAN	DINA BEACH	MUNI		
Wind Dir/Speed- 310/006 KTS		•		Runway	Ident -	- 04		
Visibility - 10.0 SM	ATC/Airspace			Runway	Lth/Wid -	5350/	100	
Lowest Sky/Clouds - 25000 FT S	CATTERED Type of Fli	ght Plan - NONE		Runway	Surface -	ASPHALT		
Lowest Ceiling - NONE		arance - NONE		Runway	Status -	DRY		
Obstructions to Vision- NONE	Type Apch/L	ndg - TOUCH AI	ND GO					
Precipitation - NONE								
Condition of Light - DAYLIGHT								
Personnel Information								
Pilot-In-Command	Age - 23	Medical	Certificate	- VALID	MEDICAL-WA	IVERS/LIM	TIN	
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight R	eview	Flight	: Time (H	ours)	-		
STUDENT	Current	- N/A Tota	_	41	Last 24	Hrs -	2	
	Months Since		/Model-	39	Last 30	Days-	33	
	Aircraft Type	- N/A Inst	rument-	1	Last 90	Days-	41	
Instrument Rating(s) - NONE								
PLT STATED THAT DURING A TOUCH-&-GO LA	NDING THE ACET STADE	ED TO VEED TOWARD	THE LEFT ST	DE DE TH	F RUNWAY L	IF.	1.5	
EMPTED TO CORRECT THE SITUATION BY USIN								
A OF GRASS. SUBSEQUENTLY, THE NOSE & RI								
A DI GRAJS. SUBSEQUENTET, THE NUSE & KI		LD. A FUSICKASH EA	AN KLVLALEL		I DUALE MAS	,		
CKED & THE WHEEL ASSEMBLY WOULD NOT TURN								

File No 13	6 2/10/89	FERNANDINA BCH,FL	A/C Reg. No. N926SA	Time (Lcl) - 1430 EST
Occurrence #1 Phase of Operation		NT/SYSTEM FAILURE/MALFUM	NCTION	
Finding(s) 1. LANDING GEAR,NOR	MAL BRAKE SYSTEM -	LOCKED		·
Occurrence #2 Phase of Operation		ON GROUND		
Finding(s) 2. DIRECTIONAL CONT 3. GROUND LOOP/SWER				
Occurrence #3 Phase of Operation				
Finding(s) 4. LANDING GEAR,MAI 5. LANDING GEAR,NOS				•
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOCKING OF THE LEFT BRAKE, WHICH RESULTED IN A GROUND SWERVE AND LOSS OF CONTROL DURING THE LANDING ROLL.

Type of Operation	Basic Information						
Type of Operation	Type Operating Certificate-NUNE (GENERAL			Fatal			None
Accident Occurred During -TAKEOFF Aircraft Information Make/Model - AERO COMMANDER 500U Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6000 Feats - 8 Rated Power - 290 HP Environment/Operations Information Weather Data Wx Briefing - FSS Landing Ground Activated - VX Stall Warning System - VX Stall Warning Stall Stall Warning Stall Stall Warning Stall Stall Warning S	Type of Operation -PERSONAL						1
Aircraft Information Make/Model - AERO COMMANDER 500U		NONE	P	ass 0	0 .	0	3
Make/Model - AFRO COMMANDER 500U Eng Make/Model - LYCOMING IO-540-E1A5 ELT Installed/Activated - Y Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6000 Roto Seats - 8 Retering Type - RECIP-FUEL INJECTED Rated Power - 290 HP Environment/Operations Information	Accident Occurred During -TAKEOFF						
Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6000 Max Gross Wt - 6000 No. of Seats - 8 Rated Power - 290 HP Environment/Operations Information Weather Data Wx Briefing - FSS Method - ACFT RADIO Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed - 020/006 KTS Visibility - 10.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 4100 FT BROKEN Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, ME LAND Itinerary Last Departure Point DAYTONA BEACH, FL DAYLONA BEACH, FL DAYLONA BEACH, FL DAYLONA BEACH Runway Ident - 06R Runway Ith/Wid - 3200/ 100 Runway Surface - ASPHALT Type of Flight Plan - NONE Runway Surface - ASPHALT Type of Clearance - NONE PRECAUTIONARY LANDING PRECAUTIO		/					
Max Gröss Wt - 6000 No. of Seats - 8 Rated Power - 290 HP Environment/Operations Information Weather Data Wx Briefing - FSS Method - ACFT RADIO Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed 020/006 KTS Visibility - 10.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 4100 FT BROKEN Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, ME LAND Instrument Rating(s) - NONE None None None None None None None None				1A5 EL			
No. of Seats - 8 Rated Power - 290 HP Environment/Operations Information Weather Data Itinerary Last Departure Point ON AIRPORT Method - ACFT RADIO DAYTONA BEACH, FL Completeness - WEATHER NOT PERTINENT Destination ORLANDO, FL Wind Dir/Speed- 020/006 KTS Visibility - 10.0 SM ATC/Airspace Runway Ident - 06R Lowest Sky/Clouds - N/A Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - 4100 FT BROKEN Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - PRECAUTIONARY LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND, ME LAND Months Since - 8 Make/Model - 81 Last 30 Days- 1 Aircraft Type - B-76 Instrument - 8 Last 90 Days- 3 Multi-Eng - 94 Instrument Rating(s) - NONE Narrative	3			ED	Stall Wall	ing system	- 163
Weather Data We Briefing - FSS Method - ACFT RADIO Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed - 020/006 KTS Visibility - 10.0 SM Lowest Sky/Clouds - N/A Dbstructions to Vision - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 36 Certificate(s)/Rating(s) PRIVATE SE LAND, ME LAND Months Since - 8 Make/Model - 81 Last 30 Days - 1 Instrument Rating(s) - NONE Narrative					•		
Wx Briefing - FSS	Environment/Operations Information						
Method - ACFT RADIO DAYTONA BEACH,FL Completeness - WEATHER NOT PERTINENT Destination ORLANDO,FL Wind Dir/Speed- 020/006 KTS Wind Dir/Speed- 020/006 KTS Wisibility - 10.0 SM ATC/Airspace Runway Ident - 06R Visibility - 10.0 SM ATC/Airspace Runway Lth/Wid - 3200/ 100 Lowest Sky/Clouds - N/A Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - 4100 FT BROKEN Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - PRECAUTIONARY LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND,ME LAND Months Since - 8 Make/Model - 81 Last 30 Days- 1 Aircraft Type - 8-76 Instrument - 8 Last 90 Days- 3 Multi-Eng - 94 Instrument Rating(s) - NONE Narrative						/	
Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 020/006 KTS Wisibility - 10.0 SM ATC/Airspace Lowest Sky/Clouds - N/A Lowest Ceiling - 4100 FT BROKEN Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND,ME LAND Months Since - 8 Months Since - 8 Make/Model - 81 Marrative NONE ATC/Airspace Runway Ident - 06R Runway Lth/Wid - 3200/ 100 Runway Surface - ASPHALT Runway Surface - ASPHALT Runway Status - DRY Runway Status - ASPHALT Runway Status - DRY Runway Status - DRY Runway Status - ASPHALT Runway Status - DRY Runway Status - DRY Runway Status - ASPHALT Runway Status - DRY Runway Status -				ON A	IRPORT		
Basic Weather - VMC				Airport	- Data		
Wind Dir/Speed- 020/006 KTS Visibility - 10.0 SM ATC/Airspace Runway Ident - 06R Visibility - 10.0 SM ATC/Airspace Runway Lth/Wid - 3200/ 100 Lowest Sky/Clouds - N/A Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - 4100 FT BROKEN Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - PRECAUTIONARY LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND, ME LAND Months Since - 8 Make/Model - 81 Last 30 Days - 1 Aircraft Type - B-76 Instrument - 94 Instrument Rating(s) - NONE Narrative				•			
Lowest Ský/Clouds - N/A Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - 4100 FT BROKEN Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - PRECAUTIONARY LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND, ME LAND Months Since - 8 Make/Model - 81 Last 30 Days - 1 Aircraft Type - B-76 Instrument - 94 Instrument Rating(s) - NONE Narrative		,					
Lowest Ceiling - 4100 FT BROKEN Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - PRECAUTIONARY LANDING Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND, ME LAND Months Since - 8 Make/Model- 81 Last 30 Days- 1 Aircraft Type - B-76 Instrument- 8 Last 90 Days- 3 Multi-Eng - 94 Instrument Rating(s) - NONE			1.22				100
Obstructions to Vision- NONE					•		
Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND, ME LAND Months Since - 8 Make/Model - 81 Last 30 Days - 1 Aircraft Type - B-76 Instrument - 8 Last 90 Days - 3 Multi-Eng - 94 Instrument Rating(s) - NONE Narrative					vay Ştatus	- DKT	
Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND, ME LAND Months Since - 8 Make/Model - 81 Last 30 Days - 1 Aircraft Type - B-76 Instrument - 8 Last 90 Days - 3 Multi-Eng - 94 Instrument Rating(s) - NONE Narrative		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2			
Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND, ME LAND Months Since - 8 Make/Model - 81 Last 30 Days - 1 Aircraft Type - B-76 Instrument - 8 Last 90 Days - 3 Multi-Eng - 94 Instrument Rating(s) - NONE Narrative	Condition of Light - DAYLIGHT						
Certificate(s)/Rating(s) PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND, ME LAND Months Since - 8 Make/Model - 81 Last 30 Days - 1 Aircraft Type - B - 76 Instrument - 8 Last 90 Days - 3 Multi-Eng - 94 Instrument Rating(s) - NONE Narrative		A 2C	Madiaol Contif	\/AI	ID MEDICAL	WATVEDS /LTI	ATT
PRIVATE Current - YES Total - 644 Last 24 Hrs - SE LAND, ME LAND Months Since - 8 Make/Model - 81 Last 30 Days - 1 Aircraft Type - B-76 Instrument - 8 Last 90 Days - 3 Multi-Eng - 94 Instrument Rating(s) - NONE						WAIVERS/LII	AITI
Multi-Eng - 94 Instrument Rating(s) - NONE		9	Total	- 644	Last		2
Multi-Eng - 94 Instrument Rating(s) - NONE Narrative	SE LAND, ME LAND		Make/Model	- 81	Last	30 Days-	16
Instrument Rating(s) - NONE 		Aircraft Type - B-76			Last	90 Days-	39
			Multi-Eng	- 94			
	Instrument Rating(s) - NONE						
		FTER HE HAD RETRACTED TH	E LANDING GEAR, H	E NOTED THA	THE ELEVA	TOR UP	
ROL WAS RESTRICTED. HE THEN REDUCED POWER ON BOTH ENGINES AND EXECUTED AN INTENTIONAL GEAR UP LANDING ON THE AY. POST ACCIDENT EXAMINATION REVEALED NO MALFUNCTION OR FAILURES THAT WOULD CAUSE THE ELEVATOR TO BE JAMMED.	ROL WAS RESTRICTED. HE THEN REDUCED POWER	ON BOTH ENGINES AND EXEC	UTED AN INTENTION	AL GEAR UP	LANDING ON	THE	

File No	95 2/16/89	DAYTONA BEACH, FL	A/C Reg. No. N1010U	Time (Lc1) - 1644 EST	
Occurrence #1 Phase of Operation	AIRFRAME/COMPONE TAKEOFF	NT/SYSTEM FAILURE/MALF	FUNCTION		
Finding(s) 1. FLIGHT CONTROL	SURFACES/ATTACHMEN	TS - UNDETERMINED		·	
Occurrence #2 Phase of Operation	GEAR NOT EXTENDE TAKEOFF - ABORTE	=			
Finding(s) 2. WHEELS UP LANDI	NG - INTENTIONAL -	PILOT IN COMMAND			
Probable Cause					
The National Transpo	rtation Safety Roa	rd determines that the	Probable Cause(s) of this accide	ent was:	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was CONTROL MALFUNCTION OF UNDETERMINED CAUSE THAT MADE FURTHER FLIGHT INADVISABLE.

File No 193 2/24/89	OKLAWAHA,FL	A/C Reg. No. N863Z			Time (Lc1) - 0755 EST			
-Basic Information Type Operating Certificate-AGRICUI	TURAL AIRCRAFT	Aircraft Damag	je		Inju	ries		
		SUBSTANTIAL		Fatal	Serious	Minor	None	
Type of Operation -OTHER N	VORK USE	Fire	Crew	0	0	0	1	
Flight Conducted Under -14 CFR		NONE	Pass	0	О	0	0	
Accident Occurred During -LANDING	à							
-Aircraft Information								
Make/Model - BELL 47G		ke/Model - LYCOMING	VO-435-A1B		Installed/			
Landing Gear - SKID		Engines - 1			tall Warni	ng System	- NO	
Max Gross Wt - 2350		Type - RECIPROCA		TOR				
No. of Seats - 3	Rated	Power - 200 HP	, 					
-Environment/Operations Information-								
Weather Data	Itinerary				Proximity			
Wx Briefing - NO RECORD OF BR	[EFI N G Last De	parture Point		OFF AI	RPORT/STRI	Р		
Method - N/A		AS ACC/INC						
Completeness - N/A	Destinat			Airport D	ata			
Basic Weather - VMC	LOCAL							
Wind Dir/Speed- 310/010 KTS						- N/A		
Visibility - 8.0 SM	ATC/Airsp				Lth/Wid.			
Lowest Sky/Clouds - CLEAR		Flight Plan - NONE			Surface			
Lowest Ceiling - NONE		Clearance - NONE		Runway	Status	- N/A		
Obstructions to Vision- NONE	Type Ap	ch/Lndg - STRAI	GHT-IN					
Precipitation - NONE	-							
Condition of Light - DAYLIGH				- -				
-Personnel Information Pilot-In-Command	Age - 27	Modias	ıl Certificat	- VALTD	MEDICAL -N	O MATVEDS	/. TMTT	
Certificate(s)/Rating(s)	Biennial Flig			t Time (H		U WAIVERS/	LIMII	
COMMERCIAL	3		otal -	•	•	4 Hrs -	3	
SE LAND, ME LAND		nce - 21 Ma					50	
HELICOPTER		Type - BELL-47 In	ike/Model- nstrument-	64	Last 9	O Davs-	80	
	A. Grare	Mı.	ılti-Ena -	10	Rotoro	raft -	50	
				. •		· •		
Instrument Rating(s) - AIRPLA	ANE							
Namakiya								
-Narrative OT WAS ATTEMPTING HIS FIRST LANDING (ON THE BACK OF A TOU	OK WHEN HE ALLOWED T	יטר טבו דפספדרי	TO DITO	LL DACK			
OF WAS AFTEMPTING HIS FIRST LANDING (SING THE TAIL ROTOR TO STRIKE THE GRO						NC		
SING THE TAIL RUTUR TO STRIKE THE GROUND.	DOIND MUTCH KEROLIED	IN THE HELICOPTER RU	LLING AND IT	- MAIN RU	IOK SIKIKI	NG		
GROUND.	,							

File No. - 193 2/24/89 OKLAWAHA,FL A/C Reg. No. N863Z Time (Lc1) - 0755 EST

Occurrence #1 DRAGGED WING, ROTOR, POD, OR FLOAT Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. ROTORCRAFT FLIGHT CONTROLS - IMPROPER USE OF - PILOT IN COMMAND

2. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND

Occurrence #2 ROLL OVER

----Probable Cause----

Phase of Operation LANDING - FLARE/TOUCHDOWN

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S FAILURE TO PROPERLY CONTROL THE HELICOPTER DURING AN ATTEMPTED LANDING ON THE BACK OF A TRUCK. CONTRIBUTING TO THE ACCIDENT WAS THE PILOT'S LACK OF EXPERIENCE IN PERFORMING SIMILAR LANDINGS.

Basic Information	ENEDAL AVIATION)	Ainanaft Damag	-		Toju	nios	
Type Operating Certificate-NONE (G	ENERAL AVIATION)	Aircraft Damage DESTROYED	=	Fatal	_	ries Minor	None
Type of Operation -BUSINESS	5	Fire	Crew		0		0
Flight Conducted Under -14 CFR 9		NONE	Pass	O	0	0	0
Accident Occurred During -APPROAC							
Aircraft Information							
Make/Model - PIPER PA-22-135		/Model - LYCOMING (
Landing Gear - TRICYCLE-FIXED		ngines - 1			tall Warni	ng System	- NO
Max Gross Wt - 1950		/pe - RECIPROCAT		FIUR			
No. of Seats - 4	Rated Pow	ver - 135 HP					
Environment/Operations Information	 Itinerary			Airport	Proximity		
Weather Data Wx Briefing - FSS		rture Point		ON AIR			
Method - TELEPHONE	ORANGEBI			ON AIR	FURI		
Completeness - UNK/NR	Destination	· ·		Airport D	ata		
Basic Weather - IMC		/ILLE.FL		•	NVILLE INT	'L	
Wind Dir/Speed- 030/006 KTS				Runway	Ident	- 07	
Visibility - 1.500 SM	ATC/Airspace	9		Runway	Lth/Wid	- 8000/	150
Lowest Sky/Clouds - N/A		light Plan - IFR			Surface		
	OVERCAST Type of Cl	learance - IFR		Runway	Status	- DRY	
Obstructions to Vision- FOG	Type Apch/	/Lndg - ILS-C					
Precipitation - NONE	214.)	FULL S	STOP				
Condition of Light - NIGHT(DAF							
Personnel Information	4.0	Madiaa	1 Cambifia.	+- VALTD	MEDICAL N	O WATVEDS	/1 TMTT
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 42 Biennial Flight	Peview	l Certifica Flic	ht Time (H		U WAIVERS	/ LIMII I
COMMERCIAL	Current	- NO To:	tal -	1094	last 2	4 Hrs -	4
SE LAND, ME LAND	Months Since	e - 26 Mai	ke/Model-	701	Last 3	O Davs-	24
or randine rand		pe - PA-22 Ins	strument-	275	Last 9	O Days-	47
		Mu	lti-Eng -	11		•	
Instrument Rating(s) - AIRPLAN	NE		•				
·							
Narrative DR APRCH WAS ATTEMPTED AT THE ORIG DES	T PUT A MISSED ADDOL	WAS MADE AT MINIM	IMS DIT DI	VEDTED TO	INY WHEDE	ПE	
CLEARED FOR AN ILS RWY 7 APRCH. THE							
TED PLT MADE IT APPEAR THAT HE WAS EQU							
500 FT. AT ABOUT 4.5 MI FROM RWY, FL							
OF RADAR-OBSERVED ALT EXCURSIONS DUR						FOR	
ILE, THEN GOT OFF. HE WAS TRYING TO RE							
S BFR HAD EXPIRED 2 MOS PRIOR TO THE	ODAGU A DEVITEU OF UT	LOCDOOK CHOWED NO	FULDENCE	OF COMPLEA	NCE WITH		

File No. - 192 3/02/89 JACKSONVILLE, FL A/C Reg. No. N3243B Time (Lcl) - 2127 EST

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

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

Finding(s)

- 1. IFR PROCEDURE IMPROPER PILOT IN COMMAND
- 2. MINIMUM DESCENT ALTITUDE NOT MAINTAINED PILOT IN COMMAND
- 3. AIRCRAFT/EQUIPMENT INADEQUATE PILOT IN COMMAND
- 4. COMM/NAV EQUIPMENT, GLIDE SLOPE RECEIVER NOT INSTALLED
- LACK OF RECENT INSTRUMENT TIME PILOT IN COMMAND
- 6. WEATHER CONDITION FOG
- 7. WEATHER CONDITION LOW CEILING
- 8. LIGHT CONDITION DARK NIGHT
- 9. OBJECT TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN UNSTABILIZED INSTRUMENT APPROACH WHEREIN THE PILOT DESCENDED BELOW THE MDA. CONTRIBUTING FACTORS INCLUDED AN INADEQUATELY EQUIPPED ACFT AND THE PILOT'S LACK OF RECENT INSTRUMENT EXPERIENCE.

File No 191 3/1	1/89 JACKSC	NVILLE,FL	A/C Reg. No. N4033J Time (Lc1) - 0904 EST						
-Basic Information Type Operating Certificate	-NONE (GENERAL	AVIATION)	Aircraft	Damage				uries	
, ,	-SIGHTSEEING -14 CFR 91 -LANDING		NONE Fire NONE		Crew Pass	Fatal O O	Serious O 1	Minor O 3	None 1 0
Make/Model - ADAMS AX-9		Eng Make	/Model - N/A			ELT	Installed	/Activated	- NO -N/
Landing Gear - N/A		Number E	ngines - N/A			S	tall Warn	ing System	- NO .
Max Gross Wt - 1929		Engine Ty	/pe - N/A				4		
No. of Seats - UNK/NR	_	Rated Po	ver - N/A						
-Environment/Operations Inform	mation								
Weather Data		Itinerary				Airport	Proximity		
Wx Briefing - UNK/NR			rture Point			OFF AI	RPORT/STR	ΙP	
Method - UNK/NR			ACC/INC						
Completeness - FULL		Destination	ו			Airport D	ata		
Basic Weather - VMC	47.0	LOCAL				5	*	/.	
Wind Dir/Speed- 020/006 P		4.70/4:	_				Ident	- N/A	
Visibility - 7.0 Lowest Sky/Clouds - (SM CLEAR	ATC/Airspace	e Light Plan -	NONE	•		Lth/Wid Surface	- N/A - N/A	
	NONE		learance -			,	Status	- N/A - N/A	
Obstructions to Vision- 1				FULL STOP		Kuriway	Status	IN/ A	
	NONE	Type Apelly	Ling	TOLL STOL				*	
Condition of Light - [
Pilot-In-Command	•	Age - 42		Medical Cert	ificat	e - NO ME	DICAL		
<pre>Certificate(s)/Rating(s)</pre>		Biennial Flight	Review		Fligh	it Time (H	ours)		
COMMERCIAL		Current	- YES	Total		801		24 Hrs -	1
		Months Since		Make/Mod		801	Last		9
FREE BALLOON		Aircraft Typ	oe - AX-9	Instrume	nt-	0	Last	90 Days-	9
Instrument Rating(s)	- NONE							•	
Monnotivo									
-Narrative BALLOON TIPPED OVER UPON LDG	THE DIT 9 A	DAY CTATED THAT	CAEETV POT	ETNO DECODE	e Durt	NO ELT MA	C ADECHAT	=	
IVEN AT LEAST TWICE. ON TOUCH									
ACCIDENT WAS NOT REPORTED UN			OTTIER PAA I	LLL UFUN FEM	ALL PA	A INCORTIN	G HER ARM	•	
MOCIPEIAL MAD MOL KELOKIED ON	11 MDOO1 40 I	ING ENTEN.							

File No. - 191 3/11/89 JACKSONVILLE, FL A/C Reg. No. N4033J Time (Lc1) - 0904 EST

Occurrence #1 MISCELLANEOUS/OTHER
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)
1. PROCEDURES/DIRECTIVES - NOT FOLLOWED - PASSENGER
2. WEATHER CONDITION - GUSTS

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF A PASSENGER TO FOLLOW PRE-BRIEFED INSTRUCTIONS DURING LANDING.

----Probable Cause----

File No 147 4/10/89 PENS	ACOLA,FL	A/C Reg	. No. N3OPC		-	Time (Lcl) ·	- 1300 CD	Т,
Basic Information Type Operating Certificate-NONE (GENER, Type of Operation -EXECUTIVE/CO Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	•	Aircraft DESTROYE Fire IN FLIGH)	Crew Pass	Fatal 2 1	Injur Serious O O	ries Minor O O	None O O
Aircraft Information Make/Model - BEECH 200 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 12500 No. of Seats - 10						Installed/Æ		- YES-UNK/NR - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELETYPE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 340/010 KTS Visibility - 2.000 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 700 FT BROW Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - DAYLIGHT	PENSACOL Destination ATLANTA, ATC/Airspace Type of Fl KEN Type of Cl	GA e ight Plan - earance -		,	OFF AI Airport [PENSAG Runway Runway Runway	COLA REGIONA	AL - 34 - 7002/ - ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP,CFI SE LAND,ME LAND	Age - 45 Biennial Flight Current Months Since Aircraft Typ	Review - YES - 1	edical Certi Total Make/Mode Instrumer Multi-Eng	Fligh - 1 ∋l- nt-	t Time (F 4200 3000 1120	Hours) Last 24 Last 30	1 Hrs -	MIT 1 24 114
Instrument Rating(s) - AIRPLANENarrative THE AIRCRAFT WAS ROUTINELY FLOWN TO PENSACOLA BAGS, 2 PLACED IN THE AFT BAGGAGE AREA BY THE CVR RECORDED THE PAX STATING THAT THERE WAS AN EMERG WAS DECLARED TO THE PNS ATCT. SUBSECT DARK SMOKE BEHIND IT. THE AIRCRAFT IMPACTED A OF A LIGHTNING STRIKE, AIRCRAFT SYSTEM MALFUNCHEMICAL TESTS SHOWED TRACES OF HYDROCHLORIC METALLURGICAL EXAM OF BROKEN FUEL LINE SHOWED WINDOWS WERE SEVERELY SOOTED. THE FLIGHT CREAT	E GROUND CREW, THE A FIRE. THE FIRE I QUENTLY, THE AIRCR AN APARTMENT COMPL NCTION, OR INCENDI AND SULPHURIC ACI O OVERLOAD FAILURE	OTHER 2 CARI N THE AFT CAR AFT WAS SEEN EX AND A POS ARY DEVICE WAS D ON PAX ART AND POST HE	RIED ONBOARD BIN AREA WAS DESCENDING CCRASH FIRE AS FOUND DUR ICLES BUT NO AT DISTRESS.	D BY TI S CONF OUT OI E DESTI RING TI ONE ON	HE PAX. A IRMED BY F THE OVE ROYED IT. HE INVEST THE CAB	AFTER TAKEOF THE 1ST OFF ERCAST STREA NO EVIDENC TIGATION. FO IN INTERIOR.	FF THE FICER. AMING CE DRENSIC	

File No. - 147 4/10/89 PENSACOLA.FL A/C Reg. No. N3OPC Time (Lcl) - 1300 CDT Occurrence #1 FIRE Phase of Operation CLIMB Finding(s) 1. FUSELAGE, CABIN - FIRE 2. FUSELAGE, CABIN - SMOKE Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation DESCENT - EMERGENCY Finding(s) 3. EMERGENCY PROCEDURE - NOT FOLLOWED - PILOT IN COMMAND 4. EMERGENCY PROCEDURE - NOT FOLLOWED - COPILOT/SECOND PILOT PHYSICAL IMPAIRMENT(CARBON MONOXIDE) - PILOT IN COMMAND PHYSICAL IMPAIRMENT(CARBON MONOXIDE) - COPILOT/SECOND PILOT IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #3 Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
AN IN FLIGHT CABIN FIRE OF UNDETERMINED ORIGIN AND PHYSICAL IMPAIRMENT OF THE FLIGHT CREW DUE TO SMOKE AND FIRE.
CONTRIBUTING FACTORS WERE THE FAILURE OF THE FLIGHT CREW TO DON THE AVAILABLE OXYGEN MASKS TO REDUCE THE EFFECT OF
THE SMOKE AND FUMES IN THE COCKPIT.

File No 41 2/10/89 DAWSC	ON, GA A/C Re	eg. No. N9755		Time (Lcl) -	1000 ES	Τ .
-Basic Information Type Operating Certificate-AGRICULTURAL				Injur		
	SUBSTAN		Fatal		Minor	None
Type of Operation -AERIAL APPLI			Crew 0 Pass 0	0	0	1
Flight Conducted Under -14 CFR 137 Accident Occurred During -LANDING	NONE	· F	ass 0	U	O	O
accident occurred buring -Landing	, ,					
-Aircraft Information			_			
Make/Model - GRUMMAN G-164A	Eng Make/Model - P&V			Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1			Stall Warnin	g System	- YES
Max Gross Wt - 4500	Engine Type - REC		RBURETOR			
No. of Seats - 1	Rated Power -	450 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING			OFF A	IRPORT/STRIP		
Method - N/A	SAME AS ACC/INC		Į.			
Completeness - N/A	Destination		Airport	Data		
Basic Weather - VMC	SAME AS ACC/INC		0			
Wind Dir/Speed- 320/008 KTS				y Ident -		
Visibility - 10.0 SM	ATC/Airspace			y Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			y Surface -		
Lowest Ceiling - NONE	Type of Clearance			y Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg -	FORCED LANDIN	IG			
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 59	Medical Certif			IVERS/LII	MIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	·F	Flight Time (•		
COMMERCIAL	Current - YES	Total	- 13867	Last 24		6
SE LAND, ME LAND, SE SEA	Months Since - 13	Make/Mode1	- 5000	Last 30	Days-	10
HELICOPTER	Aircraft Type - G-164-A			Last 90		0
		Multi-Eng	- 800	Rotorcr	aft -	500
Instrument Rating(s) - NONE				ā		
OT WAS COMPLETING THE SECOND AERIAL APPLIC						
REGAIN POWER WERE ONLY MOMENTARILY SUCCESS	FUL AND THE PILOT WAS FORCED	TO LAND IN TH	HE WHEAT. ON	ROLLOUT THE		
CRAFT WENT INTO A PLOWED FIELD AND NOSED O					AKING	
CH RESULTED IN AN EXCESSIVELY RICH MIXTURE						

A/C Reg. No. N9755 Time (Lcl) - 1000 EST File No. - 41 2/10/89 DAWSON, GA Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation MANEUVERING - AERIAL APPLICATION Finding(s) 1. FUEL SYSTEM, CARBURETOR FLOAT - LEAK Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 2. TERRAIN CONDITION - SOFT

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: TOTAL LOSS OF ENGINE POWER DUE TO LEAKING CARBURETOR FLOAT. CONTRIBUTING TO THE ACCIDENT WAS THE SOFT TERRAIN USED FOR A FORCED LANDING.

----Probable Cause----

File No 63 2/24/89 HONOL	ULU,HI	A/C Reg. No. N47	130	T	ime (Lc1) -	0209 HST	·
Basic Information Type Operating Çertificate-AIR CARRIER	- FLAG/DOMESTIC A	ircraft Damage			Injuri		
Name of Carrier -UNITED AIRLI Type of Operation -SCHEDULED,IN	NES, INC.	SUBSTANTIAL		Fatal			None
Type of Operation -SCHEDULED, IN	TL, PASSENGER F	ire	Crew	0	3		3
Flight Conducted Under -14 CFR 121 Accident Occurred During -CLIMB			Pass		2		306
Aircraft Information				•			
Make/Model - BOEING 747-122	Eng Make/Mode	I - P&W JT9D-3A			Installed/Ad		•
Landing Gear - TRICYCLE-RETRACTABLE	Number Engine:	5 - 4		S	tall Warning	g System	- YES
Max Gross Wt - 734000	Engine_Type	- TURBOFAN					
No. of Seats - 400	Rated Power	- 43000 LBS THR	RUST				
Environment/Operations Information	* * * * * * * *	·					
Weather Data	Itinerary	De tot	А		Proximity		
Wx Briefing - COMPANY Method - TELETYPE	Last Departure	POINT		OFF AII	RPORT/STRIP		
	HONOLULU, HI		A ±	nnont D	.+.		
Completeness - WEATHER NOT PERTINENT			A 1	rport D	ата		
Basic Weather - VMC	AUCKLAND			Dunuay	Ident -	N/A	
Wind Dir/Speed- UNK/NR Visibility - UNK/NR	ATC/Airspace	•			Lth/Wid -		
Lowest Sky/Clouds - N/A	Type of Flight	Dian - IED			Surface -		-
Lowest Sky/Crouds - N/A Lowest Ceiling - UNK/NR	Type of Cleara				Status -		
Obstructions to Vision- UNK/NR	Type Of Crearai	- FORCED LAN	IDING	Rullway	status -	N/ A	
Precipitation - UNK/NR	Type Apch/Lndg	- FURCED LAN	IDING				
Condition of Light - NIGHT(DARK)							
Personnel Information Pilot-In-Command	Age - 59	Medical Cer	tificate	- VALTO	MEDICAL-NO	WATVERS/	'I TMTT
Certificate(s)/Rating(s)						WAI VERS	
ATP	Biennial Flight Revie Current	/FS Total	- 280	00	Last 24	Hrs -	0
SE LAND, ME LAND, SE SEA	Months Since -	2 Make/Mo	del- 16	50	Last 30	Davs-	
GLIDER	Months Since - Aircraft Type - E	R-747 Instrum	ent- UNK/	NR	Last 90	Davs- UN	IK/NR
delben	Arrelait Type .	Multi-F	na - UNK/	NR	Rotorcra	ift - UN	IK/NR
	•		9 5.1.1,	•••			,
Instrument Rating(s) - AIRPLANE							
Narrative							
L #811 WAS A SCHEDULED PASSENGER FLIGHT FRO CKLAND, NEW ZEALAND. THE FLT WAS UNEVENTFUL EW HEARD A "THUMP" FOLLOWED BY AN EXPLOSION	UNTIL AFTER DEPARTURE	FROM HNL. WHILE	CLIMBING	FROM FL:	220 TO FL230	THE	
UTDOWN BECAUSE OF FOD. THE FLT RETURNED TO BE CARGO DOOR DEPARTED INFLT CAUSING EXTENS	HNL AND PASSENGERS WEI	RE EVACUATED. INSF	ECTION RE	VEALED '	THE FORWARD		
SSENGERS WERE EJECTED AND LOST AT SEA. INVE						н	
LOWED IT TO BE IMPROPERLY LATCHED. AND THE	OPERATION AND MAINTENA	NCE TO ASSURE AIR	WORTHINES	S OF THI	E DOOR AND		
LOWED IT TO BE IMPROPERLY LATCHED, AND THE TCHING MECHANISM. (SEE NTSB/AAR-90/01)	OPERATION AND MAINTENA	ANCE TO ASSURE AIR	RWORTHINES	S OF THI	E DOOR AND		

File No. - 63

2/24/89

HONOLULU, HI

A/C Reg. No. N4713U

Time (Lcl) - 0209 HST

Occurrence #1
Phase of Operation

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation CLIMB - TO CRUISE

Finding(s)

- 1. DOOR, CARGO UNLATCHED
- 2. DOOR, CARGO SEPARATION
- 3. MAINTENANCE, INSPECTION OF AIRCRAFT IMPROPER COMPANY MAINTENANCE PSNL
- 4. AIRCRAFT/EQUIPMENT, INADEQUATE DESIGN MANUFACTURER
- ACFT/EQUIP, INADEQUATE STANDARD/REQUIREMENT FAA(ORGANIZATION)
- 6. AIR COND/HEATING/PRESSURIZATION DECOMPRESSION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE SUDDEN OPENING OF THE IMPROPERLY LATCHED FORWARD LOBE CARGO DOOR IN FLIGHT AND THE SUBSEQUENT EXPLOSIVE DECOMPRESSION. CONTRIBUTING TO THE ACCIDENT WAS A DEFICIENCY IN THE DESIGN OF THE CARGO DOOR LOCKING MECHANISMS, WHICH MADE THEM SUSCEPTIBLE TO INSERVICE DAMAGE, AND WHICH ALOWED THE DOOR TO BE UNATCHED, YET TO SHOW A PROPERLY LATCHED AND LOCKED POSITION. ALSO CONTRIBUTING TO THE ACCIDENT WAS THE LACK OF PROPER MAINTENANCE AND INSPECTION OF THE CARGO DOOR BY UNITED AIRLINES, AND A LACK OF TIMELY CORRECTIVE ACTIONS BY BOEING AND THE FAA FOLLOWING A PREVIOUS DOOR OPENING INCIDENT.

Type Operating Certificate-NONE (GENE		raft Damage		Injur		
Time of Openation DEDCOMAL		STANTIAL	Fatal O	Serious O	Minor O	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NON		-	0	0	1
Accident Occurred During -APPROACH	·	1 433	O	O	O	Ü
Aircraft Information						
Make/Model - CESSNA 140		CONTINENTAL C-85-12		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1450	Number Engines -	RECIPROCATING-CARBUR		itall Warnin	ng System	- NU
No. of Seats - 2	-	85 HP	ETUK			
	Rateu Fowei	03 116				
Environment/Operations Information Weather Data	Itinerary		Ainmont	Proximity		
Wx Briefing - FSS	Last Departure Po	int	ON AIR			
Method - TELEPHONE	DES MOINES, IA		ON AIN	OKT		
Completeness - FULL	Destination		Airport D	ata		
Basic Weather - VMC	AUDUBON, IA		AUDUBO			
Wind Dir/Speed- 200/020 KTS			Runway	Ident -	14	
Visibility - 20.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Pl			Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	- FULL STUP				
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 33	Medical Certifica	te - VALID	MEDICAL-WA	IVERS/LIM	ΙΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ht Time (F			
STUDENT	Current - N/A		40	Last 24	Hrs -	1
	Months Since - N/A		40	Last 30	Days-	8
	Aircraft Type - N/A		NK/NR	Last 90	Days-	11
		Multi-Eng - U	NK/NR	Rotorcr	aft - UN	K/NR
Instrument Rating(s) - NONE						
Narrative						
E ON SOLO CROSS COUNTRY TRAINING FLIGHT						
AY 14 WITH A RIGHT CROSSWIND IN EXCESS	OF 20 KNOTS. DURING THE LA	NDING FLARE, HE FELT	HE WAS LOS	ING		

1/09/89 File No. - 38 AUDUBON, IA A/C Reg. No. N89867 Time (Lcl) - 1115 CST LOSS OF CONTROL - IN FLIGHT Occurrence #1 Phase of Operation LANDING Finding(s) 1. WEATHER CONDITION - CROSSWIND 2. GO-AROUND - ATTEMPTED - PILOT IN COMMAND 3. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND IN FLIGHT COLLISION WITH OBJECT Occurrence #2 Phase of Operation GO-AROUND (VFR) Finding(s) 4. OBJECT - TREE(S) IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation / DESCENT - UNCONTROLLED ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO MAINTAIN CONTROL OF THE AIRPLANE. CONTRIBUTING TO THE ACCIDENT WERE THE CROSSWIND

CONDITIONS.

File No 33 1/14/89 CLARI	ON,IA . A/C Reg	g. No. N22997	Т	ime (Lc1) -	1200 CST	
Basic Information Type Operating Certificate-NONE (GENERA				Injuri		
	SUBSTAN		Fatal			None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	1
Aircraft Information						
Make/Model - CESSNA 150	Eng Make/Model - CON	INENTAL 0-200-A		Installed/Ac		
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600	Number Engines - 1 Engine Type - REC	PROCATING-CARBURE		tall Warning	System	- YES
No. of Seats - 2	3	PRUCATING-CARBURE	TUR			
	Rated Fower -					
Environment/Operations Information Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING				RPORT/STRIP		
Method - N/A	BLAINE, MN			,		
Completeness - N/A	Destination		Airport Da	ata		
Basic Weather - VMC	WEBSTER CITY, IA		•			
Wind Dir/Speed- 200/021 KTS			Runway	Ident -	N/A	
Visibility - 10.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - 20000 FT SCAT				Surface -		
Lowest Ceiling - NONE	Type of Clearance -		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 - 27 Biennial Flight Review	Medical Certificat	e - VALID t Time (Ho		MAINERS/	LIMII
<pre>Certificate(s)/Rating(s) PRIVATE</pre>	Current - YES				Unc -	2
SE LAND	Months Since - 10	Total - Make/Model-	126	1ast 24	Dave-	
SE LAND	Aircraft Type - C-150	Instrument-	120	Last 30	Days-	a
	Afficiant Type C 150	Make/Model- Instrument- Multi-Eng - UN	K/NR	Potorcra	ft - IIN	k/NR
•		Marci Eng On	IX/ IVIX	KO COI CI U		IX/ IXIX
Instrument Rating(s) - NONE						
Narrative RING A PERSONAL CROSS COUNTRY FLIGHT, THE P A RURAL GRAVEL ROAD, AND DURING THE ROLL-O BSEQUENT INVESTIGATION REVEALED NO MECHANIC NDITIONS WERE FAVORABLE FOR CARBURETOR ICIN D DEWPOINT WAS 25 DEGS F.	UT, A ROAD SIGN WAS STRUCK CA AL MALFUNCTION, LACK OF FUEL	USING SUBSTANTIAL OR FUEL CONTAMIN	DAMAGE TO ATION. ME	THE ACFT. FEOROLOGICAL		

Time (Lc1) - 1200 CST File No. - 33 1/14/89 A/C Reg. No. N22997 CLARION, IA Occurrence #1 LOSS OF ENGINE POWER Phase of Operation CRUISE Finding(s) 1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS 2. CARBURETOR HEAT - DELAYED - PILOT IN COMMAND 3. FUEL SYSTEM, CARBURETOR - ICE Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 4. OBJECT - SIGN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO PROPERLY USE THE CARBURETOR HEAT DURING ICING CONDITIONS RESULTING IN CARBURETOR ICE FORMATION AND SUBSEQUENT LOSS OF ENGINE POWER.

<pre>Basic Information Type Operating Certificate-NONE (GENE)</pre>	RAL AVIATION) Aircr	aft Damage		Injur:	es	
		STANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew	0		0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	2
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - BEECH C-23		LYCOMING 0-360-A4J				
Landing Gear - TRICYCLE-FIXED		1		tall Warning	g System	- YES
Max Gross Wt - 2450	0).	RECIPROCATING-CARBUR	FIOR			
No. of Seats - 4	Rated Power -	180 HP				
Environment/Operations Information						
Weather Data Wx Briefing - FSS	Itinerary			Proximity		
wx Briefing - FSS Method - TELEPHONE	Last Departure Poi FT. WAYNE.IN	int	OFF AI	RPORT/STRIP		
Completeness - FULL	Destination		Airport D	a+a		
Basic Weather - VMC	GREENFIELD, IA		Amport b	αια		
Wind Dir/Speed- 200/013 KTS	antelli Tees, TA		Runwav	Ident -	N/A	
Visibility - 20.0 SM	ATC/Airspace			Lth/Wid C-		
Lowest Sky/Clouds - ^25000 FT SC	ATTERED Type of Flight Pla	an - IFR	Runway	Surface -	N/A	
Lowest Ceiling - NONE	Type of Clearance	- IFR	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 - 26	Medical Certifica	+0 - VALTD	MEDICAL -NO	WATVEDS /	LIMIT
Certificate(s)/Rating(s)	Age – 26 Biennial Flight Review	Flic	ht Time (H		WAIVERS/	CIMII
COMMERCIAL, CFI	Current - YES	Total -	1353	Last 24	Hrs -	8
SE LAND, ME LAND	Months Since - 9	Make/Model- 72 Instrument-	180	Last 30	Days-	52
	Aircraft Type - C-17	72 Instrument-	197	Last 90	Days-	115
		Multi-Eng -	241			
Instrument Rating(s) - AIRPLANE						
Narrative PILOT SAID THAT HE WAS ABOUT TEN MILES	FROM LITE DECTINATION 1227	LIAD IT IN CICUT. TUS	N CLOCED !!	16 1ED EL 10:	ı.T	
PILUI SAID IHAI HE WAS ABOUL IEN MILES	FRUM HIS DESIINALIUN ARPI,	HAD II IN SIGHI, IHE	IN CLUSED H	12 ILK LEIGH	11	

Time (Lc1) - 1310 CST 1/17/89 GREENFIELD, IA File No. - 66 A/C Reg. No. N24658 Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH Finding(s) 1. FLUID, FUEL - EXHAUSTION PREFLIGHT PLANNING/PREPARATION - POOR - PILOT IN COMMAND 3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. TERRAIN CONDITION - NONE SUITABLE 5. LANDING GEAR, MAIN GEAR - OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO ASSURE AN AN ADEQUATE SUPPLY OF FUEL WAS ON BOARD IN ORDER TO COMPLETE THE FLIGHT.

-Basic Information Type Operating Certificat	e-NONE (GENERAL AVI.	ATION) Aircraft	Damage		Injur	ies	
Type operating certificat	e None (GENERAL AVI)	SUBSTANT		Fatal			None
Type of Operation		Fire	Crew			0	1
Flight Conducted Under		NONE	Pass	0	0	O .	0
Accident Occurred During	-LANDING						
-Aircraft Information	4100045T M50 0 007			E. T.			V.50 (1)
Make/Model - COMPOSITE Landing Gear - TRICYCLE-		Y Eng Make/Model - LYCC					
Max Gross Wt - 1500	RETRACTABLE	Number Engines - 1 Engine Type - REC			tall Warnin	g System ·	- NU
No. of Seats - 2		Rated Power -		LION			
-Environment/Operations Info Weather Data		Itinerary		Airport F	Provimity		
Wx Briefing - NWS		Last Departure Point			RPORT/STRIP		
Method - ACFT RA		WATERLOO, IA		0	,		
Completeness - FULL		Destination		Airport Da	ata		
Basic Weather - VMC	•	LOCAL			•		
Wind Dir/Speed- 230/006		/				N/A	
Visibility - 7.0		ATC/Airspace	NONE		Lth/Wid -		
Lowest Sky/Clouds - Lowest Ceiling -	25000 FT OVEDCAST	Type of Clearance -	TDAFFIC ADVISORY	Punway	Surface - Status -		
Obstructions to Vision-		Type Apch/Lnda -		Kanway	Jacas	147.4	
	NONE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Condition of Light -	DAYLIGHT	X.					
Pilot-In-Command	Age -	- 57 N	ledical Certifica	te - VALID	MEDICAL-WA	IVERS/LIM	T
Certificate(s)/Rating(s)	Bienr	nial Flight Review	Fligl	ht Time (Ho	ours)		
PRIVATE	(Current - YES Months Since - 17	Total - Make/Model-	196	Last 24	Hrs - UNA	(/NR
SE LAND		Months Since - 17 Aircraft Type - C-172	Make/Model-	4	Last 30	Days- UNK	(/NR /ND
		arrerart Type - C-172	Instrument- Multi-Eng - Ul	NK/ND	Potorcr	aft - IINI	/NR
•			Marci Eng of	un, run	KO COI CI	u. c	., 141
Instrument Rating(s)	- NONE						
-Narrative							
PILOT SAID THAT WHILE FLYIN	G AN EXPERIMENTAL CO	DZY ACFT ON A LOCAL FLIG	HT. THE ENGINE O	JIT. AN EME	RGENCY LDG		
ATTEMPTED IN A FARM FIELD A							

File No	67 2/25/89	HUDSON, IA	A/C Reg. I	No. N611CZ	Time (Lc1) - 1250 CST
Occurrence #1 Phase of Operation	LOSS OF ENGINE PO	OWER(TOTAL) - NON-N	IECHANICAL		
Finding(s) 1. AIRCRAFT PREFLI 2. FLUID,FUEL - EX	GHT - IMPROPER - P HAUSTION	ILOT IN COMMAND			
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGE	NCY		·	·
Occurrence #3 Phase of Operation	IN FLIGHT COLLIS	ION WITH TERRAIN/WA TOUCHDOWN	TER		
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PREFLIGHT BY THE PILOT WHICH RESULTED IN AN INADEQUATE FUEL SUPPLY AND FUEL EXHAUSTION.

-Basic Information			A/C Reg. No. N					
Type Operating Certificate-N	IONE (GENERAL AV		Aircraft Damage SUBSTANTIAL		Fatal	Injur Serious	ies Minor	None
	ERSONAL 4 CFR 91 ANDING	·	ire NONE	Crew Pass	0	0	0	1 2
-Aircraft Information								
Make/Model - CESSNA 172B		Eng Make/Mode	el - CONTINENTAL	0-300-D		[nstalled/A		
Landing Gear - TRICYCLE-FIX	ED	Number Engine				tall Warnin	g System	- YES
Max Gross Wt - 2200		Engine Type	- RECIPROCATI	NG-CARBURI	ETOR			
No. of Seats - 4		Rated Power	- 145 HP					
-Environment/Operations Informa	tion							
Weather Data		Itinerary				Proximity		
Wx Briefing - NO RECORD Method - N/A	OF BRIEFING	Last Departure FT. MADISON.			OFF AIR	RPORT/STRIP		
Completeness - N/A		Destination			Airport Da	ata	•	
Basic Weather - VMC		OSCEOLA, IA			ро. с ос			
Wind Dir/Speed- 120/007 KT	S	•		•	Runway	Ident -	N/A	
Visibility - 12.0 S	М	ATC/Airspace			Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - 12					Runway	Surface -	N/A	
Lowest Ceiling - 25 Obstructions to Vision- NO Precipitation - NO Condition of Light - DA	NE	Type of Cleara Type Apch/Lndo	ance - NONE g - FORCED	LANDING	Runway	Status -	N/A	
-Personnel Information								
Pilot-In-Command		41				WEDICAL-NO	WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Bie	nnial Flight Revi			nt Time (Ho		Lina	
ATP, CFI, MILITARY				1 - ' /Mode1-		Last 24		1
SE LAND, ME LAND		Months Since - Aircraft Type -	DC-9 Inst	rument-	1812	Last 30 Last 90	Days-	105
		All Clait Type	Mult	i-Eng -	9700	Rotorcr	aft - UN	
Instrument Rating(s) -	AIRPLANE							
Nonnotivo								
-Narrative PILOT SAID THAT WHILE CRUISING RECTIFY THE POWER LOSS AND AN E ITCH TORE OFF THE NOSE GEAR AND T ACCIDENT INVESTIGATION REVEAL PPER VALVE. METEOROLOGICAL COND RTS. THE MIS-RIGGING OF THE CAR OT ATTEMPTED TO RESTORE POWER W	MERGENCY LANDIN THE AIRCRAFT C ED THE CARB HEA ITIONS AT THE T B HEAT BOX PREV	G WAS ATTEMPTED CONTINUED TO SLIDE T BOX TO BE IMPRO IME WERE CONDUCIN	ON A SNOW COVERED E ABOUT 300 FEET OPERLY RIGGED AND OF FOR CARB ICING	D FARM FIE , COMING T D A SEAL M G ACCORDIN	ELD. A COLL TO STOP ON MISSING FRO NG TO ICINO	ISION WITH IT'S NOSE. OM THE PROBABILI	ΤÝ	

2/25/89 File No. - 139 UNIONVILLE.IA A/C Reg. No. N7662X Time (Lcl) - 1445 CST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation CRUISE Finding(s) 1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS 2. FUEL SYSTEM, CARBURETOR - ICE CARBURETOR HEAT - IMPROPER USE OF - PILOT IN COMMAND 4. CARBURETOR HEAT CONTROL - INADEQUATE 5. MAINTENANCE, MODIFICATION - IMPROPER - OTHER MAINTENANCE PSNL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

6. TERRAIN CONDITION - SNOW COVERED

7. TERRAIN CONDITION - DITCH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE FAILURE OF THE ENGINE DUE TO CARBURETOR ICE. CONTRIBUTING FACTORS INCLUDED CARBURETOR ICING CONDITIONS, IMPROPER
USE OF THE CARBURETOR HEAT CONTROL BY THE PILOT, AND THE IMPROPERLY RIGGED CARBURETOR AIR BOX WHICH RESULTED IN
REDUCED CARBURETOR HEATING CAPABILITY.

-Basic Information Type Operating Certificate-NONE (GEN			Injur	
Tune of Operation DEDCOMAL	SUBSTAN		al Serious	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire IN FLIG		0	0
Accident Occurred During -TAKEOFF			•	
-Aircraft Information	•			
Make/Model - CESSNA 182RG	Eng Make/Model - LYC		LT Installed/Ad	
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1		Stall Warning	g System - YES
Max Gross Wt - 3100 No. of Seats - 4	3 ,,	IPROCATING-CARBURETOR 235 HP		
-Environment/Operations Information				
Weather Data	Itinerary		ort Proximity	
Wx Briefing - NO RECORD OF BRIEF	•	ON	AIRPORT	
Method - N/A	FT. MADISON, IA			
Completeness - N/A	Destination	•	`t Data	
Basic Weather - VMC	SPRINGFIELD, MO		MADISON	4.0
Wind Dir/Speed- 150/008 KTS Visibility - 15.0 SM	ATC/Airspace		nway Ident - nway Lth/Wid -	16 4000/ 75
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan -		nway Ethywid -	
	VERCAST Type of Clearance -		nway Status -	
Obstructions to Vision- NONE	Type Apch/Lndg -		iway Status	DKI
Precipitation - NONE	Type Apeny Enag	TORGED EARDING		
Condition of Light - DAYLIGHT	*	,		
-Personnel Information				
Pilot-In-Command	Age - 39 Biennial Flight Review	Medical Certificate - VA		WAIVERS/LIMIT
Certificate(s)/Rating(s)		Flight Time Total - 121	(Hours)	Line LINIZ /ND
PRIVATE SE LAND	Current - YES Months Since - 7	Make/Model - 45		Hrs - UNK/NR Davs- 7
SE LAND	Aircraft Type - UNK/NR	Instrument- 9		Days- 7
	All Clart Type - UNK/NK	Multi-Eng - UNK/NR	Last 90 Rotorcra	aft - UNK/NR
Instrument Rating(s) - NONE				
-Narrative				
PLT SAID THAT SHORTLY AFTER TAKEOFF AN	D DURING INITIAL CLIMB SMOKE WA	S NOTICED COMING FROM T	HE DEEROSTER	
T ON THE PAX SIDE. TURNING DOWNWIND, TH				1F
			·	
RRED WINDSTELD TIMILIED VISIBILITY TO I				
RRED WINDSIELD, LIMITED VISIBILITY TO T S CAUSED THE FIRE TO BURN MORE INTENSEL	I. THE REL EVISIED THE MOLT WELL			
S CAUSED THE FIRE TO BURN MORE INTENSEL			ACCIDENT	
· · · · · · · · · · · · · · · · · · ·	E ACFT WAS NOT EQUIPPED WITH A F	IRE EXTINGUISHER. POST)

File No. - 68 2/25/89 FT. MADISON, IA A/C Reg. No. N4314R Time (Lcl) - 1330 CST

Occurrence #1

FIRE

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. ELECTRICAL SYSTEM, ELECTRIC WIRING - SHORTED

2. MAINTENANCE, ANNUAL INSPECTION - NOT PERFORMED - PILOT IN COMMAND

3. FIRE EXTINGUISHER - NOT INSTALLED

Occurrence #2 Phase of Operation DESCENT - EMERGENCY

FORCED LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN ELECTRICAL WIRING SHORT THAT CAUSED AN IN FLIGHT FIRE.

Type uperating certificate-N	NONE (GENERAL AVIATION		t Damage		Fo.+-1		uries	Nama
Type of Operation -F Flight Conducted Under -1	PERSONAL	SUBSTAN Fire NONE	NIIAL	Crew Pass	_	0 0	Minor O	None 1 0
Accident Occurred During -L		NONE		Pa55			·	
-Aircraft Information Make/Model - CESSNA 310 Landing Gear - TRICYCLE-RET Max Gross Wt - 5500 No. of Seats - 6	TRACTABLE	Eng Make/Model - COM Number Engines - 2 Engine Type - REC Rated Power -					d/Activated ning System	
-Environment/Operations Informa								
Weather Data Wx Briefing - UNK/NR Method - UNK/NR	La	nerary ast Departure Point OMAHA,NE	•		ON AIR	Proximity PORT	,	
Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- 070/015 KT		stination AURORA,IL				ata RAPIDS Ident	- 09	
Visibility - 1.000 S Lowest Sky/Clouds - Lowest Ceiling - Obstructions to Vision- FC Precipitation - RA Condition of Light - DL	200 FT SCATTERED T 300 FT OVERCAST T DG T	ype of Clearance		ATTERN	Runway		- 7000/ - ASPHALT - WET	
	Age - Biennia	44 1 Flight Review	Medical Ce		te - VALID nt Time (F		NO WAIVERS	/LIMII
Pilot-In-Command Certificate(s)/Rating(s)	Curi	rent - YES			1466	Last	24 Hrs -	2
<pre>Certificate(s)/Rating(s) PRIVATE</pre>		ths Since - 8 craft Type - C-152	Instru	lodel- iment- Eng -		Last Last	30 Days- 90 Days-	4 28
<pre>Certificate(s)/Rating(s)</pre>								
<pre>Certificate(s)/Rating(s) PRIVATE</pre>								

File No. - 93 3/03/89 CEDAR RAPIDS,IA A/C Reg. No. N98934 Time (Lcl) - 1850 CST

Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Phase of Operation CRUISE

- 1. ENGINE ASSEMBLY, CRANKSHAFT FAILURE, TOTAL
- 2. EMERGENCY PROCEDURE PERFORMED PILOT IN COMMAND
- 3. FLIGHT TO ALTERNATE DESTINATION PERFORMED PILOT IN COMMAND

Occurrence #3 UNDERSHOOT Phase of Operation APPROACH

Finding(s)

- 4. WEATHER CONDITION LOW CEILING
- 5. PROPER GLIDEPATH EXCEEDED PILOT IN COMMAND
- 6. WEATHER CONDITION RAIN
- 7. VISUAL LOOKOUT RESTRICTED PILOT IN COMMAND
- 8. OBJECT APPROACH LIGHT/NAVAID

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PROPER TOUCHDOWN POINT WAS NOT ATTAINED BY THE PILOT AND THE CRANKSHAFT FAILURE ON ONE ENGINE. CONTRIBUTING TO THE ACCIDENT WERE THE WEATHER CONDITIONS AND THE APPROACH LIGHTS WHICH WERE CONTACTED.

Basic Information	NA DEMAND ATD TAVE	. Administra	Damasas		Turker		
Type Operating Certificate-O	M-DEMAND AIR TAXI	Aircraft SUBSTANT		Fatal	Injur: Serious		None
Type of Operation -P	POSITIONING	Fire	Crew		0	0	1
Flight Conducted Under -1		NONE	Pass	-	Ö	Ö	0
Accident Occurred During -L				-	-	-	-
Aircraft Information							
Make/Model - CESSNA 310		Eng Make/Model - CONT	-		nstalled/Ad		
Landing Gear - TRICYCLE-RET	RACTABLE			Sta	all Warning	g System	- YES
Max Gross Wt - 5500	•	Engine Type - RECI					
No. of Seats - 2		Rated Power - 2	85 HP				
Environment/Operations Informa							
Weather Data		tinerary		Airport P	•		
Wx Briefing - NWS Method - ACFT RADIO		Last Departure Point KANSAS CITY,MO		ON AIRPO	JRI		
Completeness - FULL		Destination		Airport Da	+->		
Basic Weather - IMC		DES MOINES, IA		DES MOIN			
Wind Dir/Speed- 080/014 KT	·s	DES MOTNES, TA			ldent -	12	
Visibility - 1.500 S		TC/Airspace			th/Wid -		0150
Lowest Sky/Clouds - UN		Type of Flight Plan -	TFR		Surface -		0.00
		Type of Clearance -		Runway S		WET	
Obstructions to Vision- FO		Type Apch/Lndg -		, , , , , ,			
Precipitation - FR	EEZING DRIZZLE						
Condition of Light - NI	GHT (DARK)						
Personnel Information							
Pilot-In-Command	Age -		ledical Certifica			WAIVERS/	LIMIT
Certificate(s)/Rating(s)		ial Flight Review		nt Time (Hou			
COMMERCIAL	C	urrent - YES	Total -	3041	Last 24	Hrs -	6
	M	onths Since - 3 ircraft Type - C-310	Make/Model-	1585	Last 30	Days-	22
SE LAND, ME LAND	Α	ircraft Type - C-310	Make/Model- Instrument- Multi-Eng -	364	Last 90	Days-	90
SE LAND, ME LAND			Multi-Eng -	1828	Rotorcra	ift - UN	K/NR
SE LAND, ME LAND							
SE LAND,ME LAND Instrument Rating(s) -	AIRPLANE						
	AIRPLANE		·				
Instrument Rating(s) - Narrative E ON THE THIRD LANDING ATTEMPT	, AFTER TWO GO-AR						
Instrument Rating(s)	, AFTER TWO GO-AR	NDITIONS WERE , DARK NI	GHT, 500 FT CEIL	ING, 1 1/2 I	MILES		
Instrument Rating(s)	, AFTER TWO GO-AR ISTING WEATHER CO HE PLT SAID THE CO	NDITIONS WERE , DARK NI NTROL TOWER TURNED THE	GHT, 500 FT CEIL LIGHTS UP TO BRI	ING, 1 1/2 M GHT INTENSI	MILES TY TO		
Instrument Rating(s)	, AFTER TWO GO-AR ISTING WEATHER CO BE PLT SAID THE CO T. THE PLT SAID T	NDITIONS WERE , DARK NI NTROL TOWER TURNED THE HE BRIGHT LIGHTS CAUSED	GHT, 500 FT CEIL LIGHTS UP TO BRI DISTORTION AND	ING, 1 1/2 M GHT INTENSI THE ILLUSION	MILES TY TO		

File No. - 64 3/03/89 DES MOINES, IA A/C Reg. No. N5119C Time (Lc1) - 0530 CST

Occurrence #1

HARD LANDING

Phase of Operation

LANDING

Finding(s)

- 1. WEATHER CONDITION ICING CONDITIONS
- 2. ANTI-ICE/DE-ICE SYSTEM INITIATED PILOT IN COMMAND
- 3. WEATHER CONDITION LOW CEILING
- 4. FLARE IMPROPER PILOT IN COMMAND
- VISUAL/AURAL PERCEPTION PILOT IN COMMAND
- 6. WEATHER CONDITION DRIZZLE
- 7. LIGHT CONDITION DARK NIGHT
- 8. LANDING GEAR, MAIN GEAR OVERLOAD
- 9. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO PROPERLY FLARE THE AIRPLANE. CONTRIBUTING TO THE ACCIDENT WERE THE WEATHER CONDITIONS.

-Basic Information Type Operating Certificate-NONE (GENE	ERAL AVIATION) Aircraf	t Damage		Injur	ies	
, ,	SUBSTA		Fatal	Serious		None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	3
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - CESSNA 172		COMING 0-320-H2AD		Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			Stall Warnin	ıg System	- YES
Max Gross Wt - 2300		CIPROCATING-CARBURE	TOR			
No. of Seats - 4	Rated Power -	160 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS	Last Departure Point		ON AIR	RPORT		
Method - TELEPHONE	ROCHESTER, MN					
Completeness - FULL	Destination		Airport [
Basic Weather - VMC Wind Dir/Speed- 020/017 KTS	SAME AS ACC/INC			CHURCH	00	
Visibility - 15.0 SM	ATC/Airspace		,	/Ident - /Lth/Wid -	33	50
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		/ Surface -		
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Clearance			/ Status -		
Obstructions to Vision- NONE	Type Of Creatance Type Apch/Lndg		Kuriway	Jiaius	TCL COVE	KLD
Precipitation - NONE	Type Apelly Endg	1022 3101				
Condition of Light - DAYLIGHT						
-Personnel Information Pilot-In-Command	Age - 39	Medical Certificat	e - VALIC	MEDICAL-WA	IVERS/LIM	IT
<pre>Certificate(s)/Rating(s)</pre>						
cer til leate(3)/kating(3)	Biennial Flight Review Current - YES	Total -	113	Last 24	Hrs - UN	K/NR
PRIVATE		Make/Model-	88	Last 30	Davs-	1
	Months Since - 18					
PRIVATE	Months Since - 18 Aircraft Type - C-172		K/NR	Last 90	Days-	2
PRIVATE						

File No 96	3/05/89	CRESCO, IA	A/C Reg. No. N5371D	Time (Lc1) - 1240 CST
Occurrence #1 I		- ON GROUND		
Finding(s) 1. NOTAMS - NOT OBTAI 2. UNSUITABLE TERRAIN 3. TERRAIN CONDITION 4. DIRECTIONAL CONT 5. WEATHER CONDITION	N - SELECTED - F - ICY TROL - NOT MAINT)MMAND	
Occurrence #2 C		SION WITH OBJECT		

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN CONTROL OF THE AIRPLANE DURING THE LANDING ON A CLOSED RUNWAY.

Basic Information Type Operating Certificate-NONE (GENER	PAL AVIATION) Aircra	ft Damage		Iniu	ıries	
Type operating certificate mont (denti		ANTIAL	Fatal			None
Type of Operation -PERSONAL	Fire	Crew		0		1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Accident Occurred During -LANDING						
Aircraft Information			-		,	
Make/Model - CESSNA 177		YCOMING 0-360-A1F6				
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2500	Number Engines - Engine Type - RI	ı ECIPROCATING-CARBUR		Stall Warni	ng system	- 152
No. of Seats - 4	5 1	180 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFIN		t	ON AI	RPORT		
Method - N/A	DES MOINES, IA			D = 1 =		
Completeness - N/A Basic Weather - VMC	Destination SAME AS ACC/INC		Airport FORT			
Wind Dir/Speed- 180/016 KTS	SAME AS ACC/INC			y Ident	- 12	
Visibility - 15.0 SM	ATC/Airspace			y Lth/Wid		100
Lowest Sky/Clouds - 8000 FT SCA	ATTERED Type of Flight Plan			y Surface		
Lowest Ceiling - NONE	Type of Clearance		Runwa	y Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 68	Medical Certifica	te - VALI	D MEDICAL-V	/AIVERS/LII	MIT
<pre>Certificate(s)/Rating(s)</pre>	Age - 68 Biennial Flight Review	Flig	ht Time (•	
COMMERCIAL	Current - YES	Total -	2462	Last 2		2
SE LAND, ME LAND	Months Since - 10 Aircraft Type - C-177	Make/Model-	1500	Last 3	30 Days-	9
	Aircraft Type - C-177	Instrument- Multi-Eng -	277	Last 9	00 Days-	17
Instrument Rating(s) AIRPLANE						
Narrative PLT RPRTD THAT WHILE LANDING IN A GUSTY	X-WIND CONDITION THE ACET	ENCOUNTEDED MODEDAT	F TUDRULE	NCE DURING	THE	
ING FLARE. HE SAID THE ACFT PORPOISED T						
11.G . EE. IIE SAID IIIE ASI I ION OISED II	, 1 , , , , , , , ,				· · · -	

File No. - 157 3/24/89 FORT DODGE, IA A/C Reg. No. N35053 Time (Lcl) - 1400 CST

Occurrence #1 HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WEATHER CONDITION CROSSWIND
- 2. WEATHER CONDITION GUSTS
- 3. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 4. FLARE IMPROPER PILOT IN COMMAND
- 5. RECOVERY FROM BOUNCED LANDING IMPROPER PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO ADEQUATELY COMPENSATE FOR EXISTING WIND CONDITIONS. TO FLARE PROPERLY. AND TO RECOVER PROPERLY FROM A BOUNCED LANDING. THE GUSTY X-WIND CONDITIONS CONTRIBUTED TO THE ACCIDENT.

 Basic Information				-,		
Type Operating Certificate-NONE (GENERAL AVIATION)	Aircraft Damag	e Fata	Inju 1 Serious		Name
Type of Operation -PERSONA Flight Conducted Under -14 CFR Accident Occurred During -L'ANDING	91	SUBSTANTIAL Fire NONE	Crew O Pass O	0	0 0	None 1 3
Aircraft Information Make/Model - CESSNA 180J Landing Gear - TAILWHEEL-ALL FIX Max Gross Wt - 3190 No. of Seats - 4	D Number Ei	/Model - CONTINENT ngines - 1 ype - RECIPROCA wer - 230 HP	TING-CARBURETOR	LT Installed/. Stall Warni		
Environment/Operations Information-						
Weather Data	Itinerary			rt Proximity		
Wx Briefing - NO RECORD OF BR		rture Point	ON	AIRSTRIP		
Method - N/A	BOISE, II					
Completeness - N/A	Destination		Airpor			
- Basic Weather - VMC	SAME AS	ACC/INC		ISON RANCH	LINIZ (NID	
Wind Dir/Speed- 360/002 KTS	170/1:	_			- UNK/NR	
Visibility - 20.0 SM	ATC/Airspace			way Lth/Wid	- UNK/NK - SNOW	
Lowest Sky/Clouds - 2000 F ⁻ Lowest Ceiling - NONE	SCATTERED Type of F	light Plan - NONE			- SNOW - UNK/NR	
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of C	/Lndg - FULL		way Status	- UNK/INK	
Precipitation - NONE	rype apch,	/Lnag - FULL	STUP			
Condition of Light - DAYLIGH	-					
Condition of Light - DATLIGH	·					
Personnel Information	40	M	3 O+/C/+- NA	LID MEDICAL N	O MATVEDO/	
Pilot-In-Command Certificate(s)/Rating(s)			l Certificate - VA Flight Time		U WAIVERS/	LIMII
PRIVATE	Biennial Flight Current		tal - 400		4 Hrs - UN	v /ND
SE LAND		- 15 10 e - 17 Ma	ke/Model- 150			K/ NK 3
SE LAND			strument- UNK/NR	Last 9	O Days	9
	Affectare Typ		lti-Eng - UNK/NR	Rotorc	raft - UN	
Instrument Rating(s) - NONE						
Narrative						
PLT MADE AND APPROACH TO A RANCH STI				GHT WHEEL WAS	NOT ON	
PACKED SNOW AND IT SANK INTO A FOOT	OF COET CHOW THE ATDI	DI ANE THEN NOCED O	VED			

File No. - 19 1/30/89 ELK CITY,ID A/C Reg. No. N52095 Time (Lc1) - 1315 MST

Occurrence #1 NOSE OVER
Phase of Operation LANDING

Finding(s)

1. TERRAIN CONDITION - SNOW COVERED

2. PROPER ALIGNMENT - NOT ATTAINED - PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN A PROPER RUNWAY ALIGNMENT ON TOUCHDOWN. CONTRIBUTING TO THE ACCIDENT WERE THE SOFT SNOW CONDITIONS ON THE RANCH AIRSTRIP.

----Probable Cause----

Type Operating Certificate-NONE (GENERA		t Damage		Injur		
Type of Operation -PERSONAL	SUBSTA Fire	–		Serious	Minor	None 1
Flight Conducted Under -14 CFR 91	NONE		sw O	0		0
Accident Occurred During -MANEUVERING	•	, 42		Ü	ŭ	Ū
Aircraft Information						
Make/Model - AERO COMMANDER S2R	Eng Make/Model - P8	W R-1340-AN1				
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1			tall Warning	g System	ı - YES
Max Gross Wt - 6000 No. of Seats - 1	Engine Type - RE Rated Power -	600 HP	RETUR			
No. 01 Seats - 1		600 HP				
Environment/Operations Information	T.t. in a name.			Don and the day		
Weather Data Wx Briefing - UNK/NR	Itinerary Last Departure Point			Proximity RPORT/STRIP		
Method - UNK/NR	GRANGEVILLE, ID	•	OFF AI	KFUKI/ SIKIF		
Completeness - UNK/NR	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		•			
Wind Dir/Speed- LIGHT AND VARIABLE			Runway	Ident -	N/A	
Visibility20.0 SM	ATC/Airspace		•	Lth/Wid -	•	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			Surface -		•
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance Type Apch/Lndg		Runway	Status -	N/A	
Precipitation - NONE	Type Apch/ Lhag	- NUNE				
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 34	Medical Certific			WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review	Fli	ght Time (H			
COMMERCIAL	Current - YES			Last 24		1
SE LAND HELICOPTER	Months Since - 3 Aircraft Type - PA-28	Make/Model-				
HELICOPTER	Aircraft Type - PA-28	Instrument-	290	Rotorcra		
				NO COI CI A	A. C	2000
Instrument Rating(s) - HELICOPTER			0			
Namativa						
Narrative PILOT WAS MAKING PRACTICE AERIAL APPLICAT	TONG IN DREDADATION FOR HIS	OFD 407 OFDIEIO	ATTON THE			

File No. - 100 2/08/89 COTTONWOOD, ID A/C Reg. No. N5620X Time (Lc1) - 1300 PST

Occurrence #1
Phase of Operation

IN FLIGHT COLLISION WITH TERRAIN/WATER MANEUVERING - AERIAL APPLICATION

Finding(s)

- 1. WEATHER CONDITION WHITEOUT
- 2. ALTITUDE MISJUDGED PILOT IN COMMAND
- 3. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND
- 4. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT MISJUDGING HIS ALTITUDE DUE TO THE WHITE OUT CONDITIONS. CONTRIBUTING TO THE ACCIDENT WAS THE PILOTS LACK OF EXPERIENCE IN THIS AIRCRAFT AND THIS TYPE OF OPERATION.

File No 106 4/17/89 GRANG	EVILLE, ID 	A/C Reg. No. N4	340S	T	ime (Lc1)	- 0915 PD1	Г
Basic Information Type Operating Certificate-AGRICULTURAL	AIRCRAFT	Aircraft Damage			Inju	ries	
		SUBSTANTIAL		Fatal		Minor	None
Type of Operation -AERIAL APPLI		Fire	Crew		0	1	0
Flight Conducted Under -14 CFR 137		ON GROUND	Pass	0	0	0	0
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - AIR TRACTOR AT-301		lel - P&W R-1340-A	N - 1		Installed/		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engin		0.0400		tall Warniı	ng System	- YES
Max Gross Wt - 5000	Engine Type Rated Power	- RECIPROCATIN - 600 HP	G-CARBUR	ETUR			
No. of Seats - 1	Rated Power	- 600 HP					
Environment/Operations Information							
Weather Data	Itinerary			Airport		_	
Wx Briefing - NO RECORD OF BRIEFING	•			OFF AI	RPORT/STRII	,	
Method - N/A	SAME AS ACC	I/INC	•	4 / D			
Completeness - N/A	Destination LOCAL			Airport Da			
Basic Weather - VMC Wind Dir/Speed- 045/002 KTS	LUCAL			IDAHO (- 07	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid		60
Lowest Sky/Clouds - N/A	Type of Fligh	+ Plan - NONE			Surface		00
Lowest Ceiling - 2500 FT BROK	,,					- DRY	
Obstructions to Vision- NONE		g - FORCED L	ÄNDTNG	Kariway	Status		
Precipitation - RAIN	1,750 ,750, 2.110						
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 33	Medical C	ertifica	te - VALID	MEDICAL-W	AIVERS/LIM	ΛΙΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Rev	iew	Flig	ht Time (H	ours)		
COMMERCIAL, CFI	Current -	YES Total	~	2052	Last 24	1 Hrs -	1
SE LAND, ME LAND	Months Since -	-	Model-	38	Last 30	Days-	42
	Aircraft Type -				Last 90	Days-	75
		Multi	-Eng -	_{>} 75			
Instrument Rating(s) - AIRPLANE							
RTIAL POWER LOSS OCCURRED DRG INITIAL CLI	MB. THE PLT JETTISON	ED HIS LOAD & LAN	DED IN A	SOFT FIELD	ABOUT 3/4	4 MI	
THE RWY, WHERE THE ACFT NOSED OVER. A FI							
A 10 INCH DROP IN MANIFOLD PRESSURE HAD							
A TO THEN DROP IN MAINTI OLD FRESSORE HAD	OCCORRED & THAT A SO	SPECILD BLOWLK FA	ILOKE MA	J IIIE KEAS	314 1 OK 111E		

Time (Lc1) - 0915 PDT 4/17/89 A/C Reg. No. N4340S File No. - 106 GRANGEVILLE, ID Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. ENGINE ASSEMBLY, BLOWER/IMPELLER - FAILURE, TOTAL FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY Finding(s) 2. LOAD JETTISON - PERFORMED -Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 3. TERRAIN CONDITION - SOFT ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
A PARTIAL POWER LOSS DUE TO A BLOWER FAILURE. A FACTOR RELATED TO THE ACCIDENT WAS THE SOFT FIELD CONDITION.

-Basic Information Type Operating Certificate-NONE							
Type operating centricate-NUNE	(GENERAL AVIATION)	Aircraft Dama	ıge		Injur	ies	
		SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -PERSO		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CF		NONE	Pass	0	0	0	2
Accident Occurred During -LAND]	[NG 						
-Aircraft Information							
Make/Model - CESSNA 172M		Model - LYCOMING	6 O-32O-E2D		Installed/A		
Landing Gear - TRICYCLE-FIXED		gines - 1			tall Warnin	g System	- YES
Max Gross Wt - 2300		oe - RECIPROC		ETOR			
No. of Seats - 4	Rated Powe	er - 150 H	IP 				
-Environment/Operations Information		-					
Weather Data	Itinerary				Proximity		
Wx Briefing - FSS	Last Depar			ON AIR	PORT		
Method - TELEPHONE	ST. LOUIS	•					*
Completeness - UNK/NR	Destination			Airport D			
Basic Weather - VMC	QUINCY,II	=			MUNICIPAL		
Wind Dir/Speed- 080/008 KTS					Ident -		
Visibility - 7.0 SM	ATC/Airspace				Lth/Wid -		150
Lowest Sky/Clouds - N/A		ight Plan - NONE			Surface -		
Lowest Ceiling - 10000				Runway	Status -		
Obstructions to Vision- NONE	Type Apch/l	ndg - TRAF				SNOW - C	OMPACTE
Precipitation - NONE		FULL	. STOP				
Condition of Light - DAYLIG	GHT 					- 	
-Personnel Information							
Pilot-In-Command	J		al Certifica			WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight F	Review		nt Time (F			
PRIVATE		·	otal -		Last 24		•
SE LAND			lake/Model-	53	Last 30	Days-	2
	Aircraft Type		nstrument-		Last 90	Days-	4
		M	lulti-Eng -	2			
Instrument Rating(s) - NONE	<u> </u>						
ING LANDING FLARE/TOUCHDOWN PHASE (
RUNWAY WITH THE LEFT MAIN LANDING							
DOW AND NOTED THAT IT WAS "BENT BAC					EFT MAIN		
DING GEAR COMPLETELY COLLAPSED. THE							

2/18/89 Time (Lc1) - 1200 CST File No. - 88 QUINCY, IL A/C Reg. No. N6894H IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. TERRAIN CONDITION - SNOWBANK 2. VISUAL LOOKOUT - NOT MAINTAINED - PILOT IN COMMAND 3. LANDING GEAR, MAIN GEAR - FAILURE, PARTIAL 4. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND Occurrence #2 GEAR COLLAPSED Phase of Operation LANDING - ROLL Finding(s) 5. LANDING GEAR, MAIN GEAR - COLLAPSED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO ACHIEVE A PROPER TOUCHDOWN POINT AND TO MAINTAIN ADEQUATE VISUAL LOOKOUT DURING THE LANDING.

File No 42 2/25/89 SPART	A,IL A/C R	eg. No. N4717D	T i	me (Lcl)	- 1150 CS	Γ
Basic Information		_				
Type Operating Certificate-NONE (GENERAL		t Damage	_	Inju		
T	_SUBSTA		Fatal	Serious		None
Type of Operation -PERSONAL	Fire	Crew	-	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	O	0	4
Aircraft Information						
Make/Model - CESSNA 182A	Eng Make/Model - CO	NTINENTAL 0-470-L	ELT I	nstalled/A	Activated	- NO -N/
Landing Gear - TRICYCLE-FIXED	Number Engines - 1		St	all Warnir	na System	- YES
Max Gross Wt - 2650	Engine Type - RE	CIPROCATING-CARBUR	ETOR			
No. of Seats - 1	Rated Power -	230 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport F	roximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Point			PORT/STŔIF	•	
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport Da	ta	(
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- 210/008 KTS			Runway	Ident -	- N/A	
Visibility - 7.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - 14400 FT SCAT		- NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance			Status -		
Obstructions to Vision- NONE		- FORCED LANDING	Kariway	Status	14/ A	
Precipitation - NONE	Type Apony Endg	TORGED EARDING				
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command .	Age - 28	Medical Certifica	te - VALID	MEDICAL-WA	VIVERS/LIN	TIN
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	ht Time (Ho	urs)		
COMMERCIAL	Current - YES	Total -		Last 24		NK/NR
SE LAND	Months Since - 18 Aircraft Type - C-172	Make/Model-	15	Last 30	Days-	15
	Aircraft Type - C-172	Instrument-	46	Last 90	Days-	20
· .				w ^{ild} er g		
Instrument Rating(s) - AIRPLANE						
CCIDENT AIRPLANE WAS BEING USED FOR SPORT PAI JMP SORTIE. THE PIC INSTRUCTED HIS FOUR SKYD IRPORT LANDING IN A SOFT FIELD. DURING THE LA KAMINATION OF THE ENGINE REVEALED A PIECE OF D THE ENGINE.	IVER PASSENGERS TO ASSUME A ANDING ROLL THE NOSE LANDIN	CRASH POSITION AŃ G GEAR COLLAPSED.	D ACCOMPLIS	HED AN OFF NT	:	

A/C Reg. No. N4717D File No. -42 2/25/89 SPARTA, IL Time (Lcl) - 1150 CST LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Occurrence #1 Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. FUEL SYSTEM, CARBURETOR - FOREIGN OBJECT 2. FUEL SYSTEM, CARBURETOR - BLOCKED (TOTAL) Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE GEAR COLLAPSED Phase of Operation LANDING - ROLL Finding(s) 3. TERRAIN CONDITION - SOFT 4. LANDING GEAR, NOSE GEAR - OVERLOAD ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: POOR AND IMPROPER MAINTENANCE WHICH RESULTED IN THE CARBURETOR VENTURI BEING BLOCKED BY THE DUCT TAPE. CONTRIBUTING TO THE ACCIDENT WAS THE SOFT TERRAIN ON WHICH THE FORCED LANDING WAS MADE.

Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft Damage			Injur		
Toran of October 1 to a DEDCOMM		SUBSTANTIAL	0	Fatal			None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91		Fire NONE	Crew Pass	0	0	0	1
Accident Occurred During -LANDING		NUNE	rass	O	O	O	. 0
Aircraft Information							
Make/Model - CESSNA TR182 II	Eng Make/M	odel - LYCOMING O-5	540-J3C5D	ELT :	Installed/	ctivated	- YES/N
Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3100	Number Eng	ines - 1 e - RECIPROCATIN	IC-CADDUDE		tall Warnir	ng System	- YES
No. of Seats - 4	Rated Powe		NG-CARBORE				
Environment/Operations Information							
Weather Data	Itinerary	5			Proximity		
Wx Briefing - NO RECORD OF BRIEFI Method - N/A	NG Last Depart CHICAGO,I			ON AIR	PORT		
Completeness - N/A	Destination	L		Airport Da	ata		
Basic Weather - VMC	SANDWICH,	IL		SANDWI			
Wind Dir/Speed- 340/012 KTS					Ident -		
Visibility - 3.000 SM	ATC/Airspace				Lth/Wid -		50
Lowest Sky/Clouds - 25000 FT TH Lowest Ceiling - NONE		gnt Plan - NUNE arance - NONE			Surface - Status -		
Obstructions to Vision- HAZE		ndg - TRAFFIC	PATTERN	Runway	Status	DKI	
Precipitation - NONE	. , , , , , , , , , , , , , , , , , , ,	FULL STO					
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 58	Medical (Centificat	e - VALID	MEDICAL-NO) WAIVERS/	'LIMIT
Certificate(s)/Rating(s)	Biennial Flight R			it Time (Ho		· · · · · · · · · · · · · · · · · · ·	
PRIVATE	Current		-	511	Last 24	Hrs -	0
SE LAND	Months Since Aircraft Type	- 4 Make/	Model-	23	Last 30 Last 90	Days-	3
	Aircraft Type	- C-182 Instr	rument-	140	Last 90	Days-	7
Instrument Rating(s) - AIRPLANE							
Nonnotivo							
Narrative PILOT EXECUTED A HARD LANDING, TOUCHING	DOWN NOSE WHEEL ETD	ST AND ROUNCED TWO) TO THREE	TIMES REA	OPE THE		
GEAR BROKE OFF. THE AIRCRAFT NOSED DOW							

File No. - 52 3/11/89 SANDWICH, IL A/C Reg. No. N2096S Time (Lc1) - 1115 CST Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. AIRCRAFT HANDLING - POOR - PILOT IN COMMAND 2. FLARE - IMPROPER - PILOT IN COMMAND 3. RECOVERY FROM BOUNCED LANDING - INADEQUATE - PILOT IN COMMAND 4. LACK OF RECENT TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 NOSE GEAR COLLAPSED Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. LANDING GEAR, NOSE GEAR - OVERLOAD Occurrence #3 NOSE DOWN Phase of Operation LANDING - ROLL ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S POOR HANDLING OF THE AIRCRAFT, IMPROPER FLARE AND INADEQUATE RECOVERY FROM A BOUNCED LANDING.

 Basic Information Type Operating Certificate-NONE (GENERAL 	Ανταττον)	Aircraft [)amane		Ini	uries	
Type operating our tri reate None (deneral	AVIATION	SUBSTANT		Fatal	Serious		None
Type of Operation -PERSONAL		Fire	Crev	v 0	0		1
Flight Conducted Under -14 CFR 91		NONE	Pass	s 0	0	0	0
Accident Occurred During -LANDING							
-Aircraft Information							
Make/Model - PIPER PA-34-200T			NENTAL TSIO-360			/Activated	
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng				tall Warn	ing System	- YES
Max Gross Wt - 4570			P-FUEL INJECTED				
No. of Seats - 6	Rated Powe	r - 20	OO HP				
-Environment/Operations Information							•
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Depart			ON AIF	STRIP		
Method - N/A	WEST CHIC	AGU,IL		A	- 1 -		
Completeness - N/A Basic Weather - VMC	Destination LOCAL			Airport DUPAGE			
Wind Dir/Speed- 050/009 KTS	LUCAL				Ident	- 10	
Visibility - 8.0 SM	ATC/Airspace					- 4001/	75
Lowest Sky/Clouds - N/A	Type of Fli	ght Plan - N	IONE			- ASPHALT	, 0
Lowest Ceiling - 1400 FT OVERO					Status	- DRY	
Obstructions to Vision- NONE			RAFFIC PATTERN	-			
Precipitation - NONE		F	TULL STOP	•			
Condition of Light - DAYLIGHT							
Personnel Information							
	Age - 51		edical Certifica			WAIVERS/LIN	4IT
	Biennial Flight R			ght Time (F		~	_
COMMERCIAL SE LAND,ME LAND	Current Months Since	- YES	Total - Make/Model-			24 Hrs -	7 16
SE LAND, ME LAND	Months Since Aircraft Type		Make/Model- Instrument-	270	Last Last	30 Days-	33
	All'Clair Type	FA-34	Multi-Eng -		Last	oo bays	33
Instrument Rating(s) - AIRPLANE							
DRDING TO WITNESSES. THE AIRCRAFT LANDED HA	DD ON DUNWAY 10 8	THE NOSE GE	AD COLLADSED 3	THE WIND WA	S FROM OS) DEG	•

File No. - 119 3/12/89 WEST CHICAGO,IL A/C Reg. No. N3045M Time (Lc1) - 1729 CST

Occurrence #1 HARD LANDING
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. FLARE - IMPROPER - PILOT IN COMMAND

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

Finding(s)

2. LANDING GEAR,NOSE GEAR - OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLARE BY THE PILOT. THE CROSSWIND (QUARTERING HEADWIND) WAS CONSIDERED TO BE A FACTOR.

-Basic Information Type Operating Certificate-NON Type of Operation -INS Flight Conducted Under -14 Accident Occurred During -LAN	STRUCTIONAL CFR 91	ION) Aircraft SUBSTAN Fire NONE		-	Injur Serious O	Minor	None 1 0
Flight Conducted Under -14 Accident Occurred During -LAN Aircraft Information Make/Model - CESSNA 172D	CFR 91	Fire	Crew	0	. · · O	0	1
Make/Model - CESSNA 172D							
Max Gross Wt - 2400 No. of Seats - 4		Eng Make/Model - LYC Number Engines - 1 Engine Type - REC Rated Power -		St	Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 040/008 KTS Visibility - 5.0 SM Lowest Sky/Clouds - 2500 Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYL	ERIEFING IT DE ATO OO FT THIN BKN	OTTAWA,IL estination LOCAL C/Airspace	NONE NONE	Runway Runway	PORT	ASPHALT	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT Instrument Rating(s) - NO	Cui Moi A i i	37 I al Flight Review Frent - N/A hths Since - N/A Foraft Type - N/A	Medical Certificat Fligh Total - Make/Model- Instrument-	nt Time (Ho	ours) Last 24	Hrs - Ul	NK/NR

File No. - 178 4/25/89 OTTAWA, IL A/C Reg. No. N98923 Time (Lcl) - 0800 CDT OVERRUN Occurrence #1 Phase of Operation LANDING - ROLL Finding(s) 1. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND 2. GO-AROUND - NOT PERFORMED - PILOT IN COMMAND 3. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - DITCH ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: STUDENT PILOT'S CONTINUING AN APPROACH TO LANDING BEYOND THE POINT WHERE SHE COULD BRING THE AIRCRAFT TO A CONTROLLED STOP ON THE REMAINING RUNWAY SURFACE.

File No 118 1/14/89 VALPA	RAISO,IN .	A/C Reg. No.	N3331R	T 	ime (Lc1) -	1215 CST	
Basic Information							
Type Operating Certificate-NONE (GENERA		Aircraft Damage			Injur		
Towns of Organistics DEDCOMAL		SUBSTANTIAL	•	Fatal			None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91		Fire NONE	Crew Pass	0	0	0	1 2
Accident Occurred During -LANDING		NONE	Pass				2
Aircraft Information							
Make/Model - PIPER PA-28-180	Eng Make/Mod	el - LYCOMING O	-360-A4A	ELT	Installed/A	ctivated	- YES-UNK/N
Landing Gear - TRICYCLE-FIXED	Number Engin				tall Warnir		
Max Gross Wt - 2400	Engine Type	- RECIPROCAT	ING-CARBURE	TOR			
No. of Seats - 4	Rated Power	- 180 HP					
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING				ON AIR	PORT .		
Method - N/A	SAME AS ACC	/INC					
Completeness - N/A	Destination			Airport D			
Basic Weather - VMC	LOCAL				COUNTY		
Wind Dir/Speed- LIGHT AND VARIABLE	. —					09	
Visibility - 6.0 SM	ATC/Airspace				Lth/Wid -		150
Lowest Sky/Clouds - N/A		t Plan - NONE			Surface -		
Lowest Ceiling - 3000 FT OVER				Runway	Status -	ICE COVE	RED
Obstructions to Vision- NONE		g - TRAFFI					
Precipitation - FREEZING RAIN		FULL S		. T. L.			
Condition of Light - DAYLIGHT		PRECAU	TIONARY LAN	 NIN			·
Personnel Information	4.5.5	M 1	01:6:1	- 1/41 75		TV/500 / L TM	
Pilot-In-Command	Age - 48	. Medical	Certificat	e - VALIL	MEDICAL-MA	I VER 2/ LIM	11
<pre>Certificate(s)/Rating(s) PRIVATE</pre>	Biennial Flight Rev	1ew	Fligh	t lime (F	lours)	11	14 (NID
SE LAND	Current -	14 Mole	al -	127	Last 24	Hrs - UN	K/NR
SE LAND	Biennial Flight Rev Current - Months Since - Aircraft Type -	14 Mak	tnument-	21	Last 30	Days- UN	K/NK K/ND
	Aircraft Type -	PA-38 INS	trument-	O	Last 90	Days- UN	K/NK
Instrument Rating(s) - NONE							•
Narrative							
PREFLIGHT WX BRIEFING WAS OBTAINED BEFORE	THE FLT. DURING CLIM	B-OUT, THE PLT	HEARD ABOUT	ICING CO	NDITIONS AT		
NEARBY AIRPORT & ELECTED TO RETURN & LAND.							
ICE ON THE ACFT. ICE ON THE WINDSHIELD RES							
NDOWS. DURING THE FLARE TO LAND, HE RAISED							
LAPSING THE RIGHT MAIN GEAR.						•	

Occurrence #1

IN FLIGHT ENCOUNTER WITH WEATHER

Phase of Operation APPROACH

Finding(s)

- 1. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 2. WEATHER CONDITION ICING CONDITIONS
- 3. WING ICE
- 4. WINDOW, FLIGHT COMPARTMENT WINDOW/WINDSHIELD ICE
- 5. VISUAL/AURAL PERCEPTION PILOT IN COMMAND

Occurrence #2 HARD LANDING
Phase of Operation LANDING - FLARE/TOUCHDOWN

6. FLARE - NOT ATTAINED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PREPARATION BY THE PILOT, WHICH RESULTED IN INADVERTENT FLIGHT IN ICING CONDITIONS AND RAPID ACCUMULATION OF AIRFRAME ICE, AND THE PILOT'S FAILURE TO MAINTAIN SUFFICIENT AIRSPEED TO FLARE DURING THE LANDING. FACTORS RELATED TO THE ACCIDENT WERE: ADVERSE WEATHER CONDITIONS AND THE PILOT'S LACK OF VISUAL PERCEPTION WITH ICE ON THE WINDSHIELD.

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraft SUBSTAN	Damage TIAL	Fatal	Inju Serious	ıries Minor	None
Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	Fire NONE	Crew Pass	0	0	0	1 0
Aircraft Information Make/Model - BEECH A60 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6775 No. of Seats - 6	Eng Make/Model - LYC Number Engines - 2 Engine Type - REC Rated Power -	OMING TSIO-541-E1	C4 ELT	Installed/		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 290/006 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 3700 FT SCAT Lowest Ceiling - 6500 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	FT. WAYNE,IN Destination SAME AS ACC/INC ATC/Airspace TERED Type of Flight Plan - EN Type of Clearance - Type Apch/Lndg -	NONE VFR FULL STOP	ON AIR Airport D INDIAN Runway Runway Runway Runway	ata APOLIS Ident	- 10005/ - ASPHALT	150
Personnel Information			**	MEDICAL-W ours) Last 2 Last 3 Last 9	NAIVERS/LIM 24 Hrs - 30 Days- 90 Days-	4IT 2 18 77
Instrument Rating(s) - AIRPLANE		Multi-Eng -				
Narrative HILE ON THE FINAL APPROACH, APPROXIMATELY 100 HE FIRST OF A SERIES OF APPROACH LIGHTS AND S N A TOTAL OF FIVE SUPPORT STRUCTURES, BUT WAS XECUTED A NON-STANDARD APPROACH AT A HIGHER IM ON THE APPROACH. HE SAID HIS NON-STABILIZE ESCENT" HE SAID THAT THE ACCIDENT OCCURRE	OO FEET FROM THE APPROACH EN SUPPORT STRUCTURES. THE AIRC S SAFELY LANDED AND TAXIED T THAN NORMAL AIRSPEED, IN AN ED APPROACH RESULTED IN "AN	D OF THE RUNWAY, RAFT DAMAGED SEVE O THE RAMP. THE P EFFORT TO ACCOMMO UNDETECTED INCREA	THE AIRCRA NTEEN APPR ILOT REPOR DATE FASTE	FT STRUCK DACH LIGHT TED THAT H R TRAFFIC	·S IE	

File No. - 161 4/12/89 INDIANAPOLIS,IN A/C Reg. No. N4445W Time (Lc1) - 2000 EDT Occurrence #1 UNDERSHOOT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. LIGHT CONDITION - DARK NIGHT 2. DISTANCE - MISJUDGED - PILOT IN COMMAND 3. ALTITUDE - MISJUDGED - PILOT IN COMMAND 4. FATIGUE - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 5. OBJECT - APPROACH LIGHT/NAVAID ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT MISJUDGED ALTITUDE AND/OR DISTANCE TO THE RUNWAY WILE ON FINAL APPROACH TO LAND. FACTORS RELATED TO THE ACCIDENT WERE: DARK NIGHT AND PILOT FATIGUE.

Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft Damage			Injur	ies	
Type operating out threate none (dent	NAL AVIATION)	SUBSTANTIAL		Fatal			None
Type of Operation -PERSONAL		Fire	Crew	0		0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	1
Accident Occurred During -TAKEOFF							
Aircraft Information							
Make/Model - PIPER PA-28-181		del - LYCOMING O-			nstalled/A		
Landing Gear - TRICYCLE-FIXED	Number Engi				all Warnin	g System ·	- YES
Max Gross Wt - 2550		- RECIPROCATI	NG-CARBURE IO	ıR			
No. of Seats - 4	Rated Power	- 180 HP					
Environment/Operations Information							
Weather Data Wx Briefing - FSS	Itinerary		Α		roximity		
wx Briefing - FSS Method - IN PERSON	Last Departu			OFF AIR	PORT/STRIP		
Completeness - FULL	GARDEN CIT Destination	Y , KS	۸ :	rport Da	.+-		
Basic Weather - VMC	BRUSH, CO		АІ	пропт ва	ııa		
Wind Dir/Speed- 210/020 KTS	BR0311, C0			Runway	Ident -	N/A	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - 25000 FT SC	ATTERED Type of Flig	ht Plan - VFR			Surface -		,
Lowest Ceiling - NONE	Type of Clea	rance - NONE		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Ln	dg - FORCED	LANDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 52 Biennial Flight Re	Medical	Certificate Flight				
PRIVATE	Current	view - VES Tota	1 - 3			Hrs - UNI	/ND
SE LAND	Months Since	- 1E3 TOLA - 9 Make	/Model- UNK/	NR	Last 24	Davs- UN	C/NR
SE EARD	Months Since Aircraft Type	- PA-28 Inst	rument- UNK/	NR	Last 90	Days ON	50
		Mult	/Model- UNK/ rument- UNK/ i-Eng - UNK/	NR	Rotorcr	aft - UN	K/NR
Instrument Rating(s) - NONE							
Narrative	THE COURSE ELECUT AND	EMEDOENOV I AND THE	O WAS ATTEMS	TED IN A	EADM ETEL	D.	
PLT REPORTED THAT THE ENGINE FAILED DUR H RESULTED IN SUBSTANTIAL DAMAGE TO THE							

File No	54 1/27/8	39 GOODLAND,KS	A/C Reg. No	. N47431	Time (Lc1) - 1220 MST
Occurrence #1 Phase of Operation	LOSS OF ENGIN	NE POWER(TOTAL) - MECH F	AILURE/MALF		
Finding(s) 1. ENGINE ASSEMBLY	,VALVE,EXHAUST	- FAILURE,TOTAL			
Occurrence #2 Phase of Operation	FORCED LANDIN DESCENT - EME				
Occurrence #3 Phase of Operation	IN FLIGHT COL LANDING - FLA	LISION WITH TERRAIN/WAT RE/TOUCHDOWN	ER		
Finding(s) 2. TERRAIN CONDITI	ON - NONE SUITA	BLE			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE LOSS OF ENGINE POWER RESULTING FROM AN EXHAUST VALVE FAILURE. CONTRIBUTING TO THE ACCIDENT WAS THE LACK OF SUITABLE TERRAIN FOR A FORCED LANDING.

File No 65 1/16/89 BC	DGALUSA, LA	A/C Reg. No. N	18782L	Т	ime (Lc1) -	1530 CS	Г
Basic Information							
Type Operating Certificate-NONE (GEN	NERAL AVIATION)	Aircraft Damage			Injur	ies	
		SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -FERRY		Fire	Crew	0	0	1	0
Flight Conducted Under -14 CFR 9	1 ·	NONE	Pass	0	0	0	0
Accident Occurred During -LANDING					·		
Aircraft Information							
Make/Model - PIPER PA-25-235	Eng Make/M	Model - LYCOMING 0-	-540	ELT	Installed/A	ctivated	- NO -N/A
Landing Gear - TAILWHEEL-ALL FIXED		gines - 1		S	tall Warnin	g System	- NO
Max Gross Wt - 2900	Engine Tv	oe - RECIPROCATI	NG-CARBURE		,		
No. of Seats - 1	Rated Powe						
Environment/Operations Information	-						
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEF		ture Point		•	RPORT/STRIP		
Method - N/A	SAME AS A			0., ,	,		
Completeness - N/A	Destination	•		Airport D	ata		
Basic Weather - VMC	HAMMOND, I			A IT POT C D	u (u		
Wind Dir/Speed- LIGHT AND VARIABLE		-0		Bunyay	Ident -	N/A	
Visibility - 10.0 SM	- ATC/Airspace				Lth/Wid -	•	
	SCATTERED Type of F1		,		Surface -		
Lowest Sky/Crodds - DNK/NK :		earance - NONE			Status -		
Obstructions to Vision- NONE			LANDING	Runway	Status -	N/ A	
	Type Apch/l	nag - FURCED	LANDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command					MEDICAL-NO	WAIVERS,	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight F	Review	Fligh	t Time (H	ours)		
COMMERCIAL	Current	- YES Tota	al -		Last 24		5
SE LAND, ME LAND	 Months Since 	- 5 Make	e/Model-	5	Last 30	Days-	10
	Aircraft Type	e - UNK/NR Inst	rument-		Last 90		50
	,,		i-Eng -	10		•	
Instrument Rating(s) - AIRPLANE	<u> </u>	•					
Narrative							
HE ENGINE QUIT APPROXIMATELY FOUR MINUTES	S AFTED TAKENEE AND T	THE ATODIANE UTT TO	IE TODS OF	TDEES THE	N THE COOLIN	n	
OURING THE FORCED LANDING. THE PILOT HAD S							
NOUGH FUEL IN THE TANK TO RUN THE ENGINE						W	
ALLONS BEFORE TAKEOFF. THE ENGINE WAS INS							
ALLONS BEFORE TAKEUFF. THE ENGINE WAS INS AN NORMALLY.	DIALLED IN ANDIHER AT	CERAME AFIER THE AC	CIDENI AND	II START	ED AND		
AN NURMALLY.							
	•						

File No	65 1/16/89 BOGALUSA,LA	A/C Reg. No. N8782L	Time (Lcl) - 1530 CST
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWER(TOTAL) - NON-MEC CRUISE - NORMAL	CHANICAL	
	INADEQUATE - PILOT IN COMMAND		
Occurrence #2 Phase of Operation	DESCENT - EMERGENCY		
Occurrence #3 Phase of Operation	IN FLIGHT COLLISION WITH OBJECT LANDING		
Finding(s) 4. OBJECT - TREE(S)		
Occurrence #4 Phase of Operation	IN FLIGHT COLLISION WITH TERRAIN/WATE LANDING	R .	
Finding(s) 5. TERRAIN CONDITION	DN - GROUND		
Probable Cause			`

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S FAILURE TO REFUEL THE AIRPLANE PRIOR TO THE LAST TAKEOFF RESULTING IN AN INADEQUATE FUEL SUPPLY FOR THE FLIGHT.

File No 48 2/11/89 WALKE	R,LA . A/C Reg	J. No. N11SE	Time	(Lc1) - 1530 CST	-
Basic Information Type Operating Certificate-NONE (GENERA			Fatal Se	Injuries	None
Toran C. Oran et l'au	DESTROY		_	rious Minor	None
Type of Operation -PERSONAL	Fire NONE	Crew Pass	0 0	0 1	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		Pass			0
Aircraft Information					
Make/Model - PITTS S2B	Eng Make/Model - LYC	MING AEIO-540-D4A5	ELT Inst	alled/Activated	- YES/YES
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1		Stall	Warning System	- YES
Max Gross Wt - 1625	Engine Type - REC	P-FUEL INJECTED			
No. of Seats - 2	Rated Power - 2	160 HP			
Environment/Operations Information					
Weather Data	Itinerary		Airport Prox		
Wx Briefing - NO RECORD OF BRIEFING			OFF AIRPOR	T/STRIP	
Method - N/A	PENSACOLA, FL				
Completeness - N/A	Destination	Α	irport Data		
Basic Weather - VMC	LAFAYETTE, LA				
Wind Dir/Speed- 320/007 KTS			Runway Ide	nt - N/A	
Visibility - 7.0 SM	ATC/Airspace			/Wid - N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -			face - N/A	
Lowest Ceiling - NONE	Type of Clearance -		Runway Sta	tus - N/A	
Obstructions to Vision- NONE	Type Apch/Lndg -	FORCED LANDING			
Precipitation - NONE					
Condition of Light - DAYLIGHT	·				
Personnel Information					
Pilot-In-Command		Medical Certificate			ΝIΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		Time (Hours		
ATP	Current - YES	Total - 30		Last 24 Hrs -	2
SE LAND, ME LAND	Months Since - 20	Make/Model- Instrument- UNK	250	Last 30 Days-	5
	Aircraft Type - A-1	Instrument- UNK	/NR	Last 90 Days-	20
		Multi-Eng - 28	165	Rotorcraft -	100
Instrument Rating(s) - AIRPLANE					
HE PILOT SAID HE HAD STARTED THE FLIGHT WITH	FULL TANKS 28 GALLONS HE	OLD FAA INSPECTORS	THAT HE HAD	NOT REEN ARLE	
READ THE FUEL SIGHT GAGE IN HIS COCKPIT, T					
IRPLANE AS IN THE AIR AT LEAST 1:44. THE PIL					
LIDE RATIO OF THE AIRPLANE, IT IMPACTED TREE					
HE SITE, SAID THERE WERE NO SIGNS OR SMELLS					
NDICATIONS OF BREAKS OR LEAKS IN THE FUEL SY					
· · · · · · · · · · · · · · · · · · ·					

File No. - 48 2/11/89 WALKER, LA A/C Reg. No. N11SE Time (Lc1) - 1530 CST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation CRUISE - NORMAL Finding(s) 1. FUEL SYSTEM, FUEL QUANTITY FLOAT/SENSOR - INADEQUATE 2. FUEL CONSUMPTION CALCULATIONS - IMPROPER - PILOT IN COMMAND 3. FLUID, FUEL - EXHAUSTION 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 - TREE(S) IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #4 Phase of Operation DESCENT - EMERGENCY ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
LOSS OF TOTAL ENGINE POWER DUE TO FUEL EXHAUSTION. FUEL EXHAUSTION OCCURRED DUE TO THE PILOT'S FAILURE TO PERFORM
FUEL CONSUMPTION CALCULATIONS. CONTRIBUTING WAS THE INADEQUATE FUEL QUANITY SIGHT GAUGE IN THE REAR COCKPIT, WHICH WAS
OCCUPIED BY THE PIC.

File No 102 3/24/89 LAKE	ARTHUR, LA	A/C Reg. No. N4836Q Time (Lc1) - 0830 CS			0830 CST	O CST	
-Basic Information Type Operating Certificate-ON-DEMAND AI Name of Carrier -HAMMOND FLYI	R TAXI NG SERVICE	Aircraft SUBSTANT		Fatal		Minor	None
Name of Carrier -HAMMOND FLYI Type of Operation -NON SCHED,DO Flight Conducted Under -14 CFR 135 Accident Occurred During -LANDING	MESTIC, PASSENGER	Fire NONE		rew 0 ass 0	0	0	1
-Aircraft Information		L. d. 1. OONT					VEC /N
Make/Model - CESSNA A185F Landing Gear - FLOAT Max Gross Wt - 3350 No. of Seats - 4	Number Eng	jines - 1 e - RECI	INENTAL IO-52 P-FUEL INJECT OO HP	ED	Installed/A Stall Warnin	g System	- YES
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Depart HOUMA,LA	ure Point			Proximity IRPORT/STRIP		
Completeness - N/A Basic Weather - VMC	Destination SAME AS A	CC/INC		Airport			
Wind Dir/Speed- CALM Visibility - 7.0 SM Lowest Sky/Clouds - N/A	ATC/Airspace	aht Plan -	COMPANY (VFR)	Runwa	y Ident - y Lth/Wid - y Surface -		
Lowest Sky/Clodds N/A Lowest Ceiling - 2500 FT OVER Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT		arance -	NONE		y Status -		
Personnel Information					D 445D TO	TV5DC /1 TV	
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 57 Biennial Flight R		edical Certif F	light Time (Hours)	·	11 1
COMMERCIAL SE LAND, SE SEA	Current Months Since Aircraft Type	- UNK/NR - UNK/NR	Total Make/Model Instrument Multi-Eng	- 12757 - 8000 - 41 - 0	Last 24 Last 30 Last 90 Rotorcr	Hrs - Days- Days- aft -	4 40 130 0
Instrument Rating(s) - AIRPLANE							
-Narrative ING A LANDING IN A CANAL, THE RIGHT WING O RIGHT & STRUCK THE CANAL BANK. THE PILOT SEE THE TREE LIMBS THAT WERE SUBSEQUENTLY	STATED THAT HE HAD	ONTACTED TR		AIRPLANE TH	EN PIVOTED T	0	

File No 10	2 3/24/89	LAKE ARTHUR, LA	A/C Reg. No. N4836Q	Time (Lc1) - 0830 CST	
		· · · · · · · · · · · · · · · · · · ·			
Occurrence #1 Phase of Operation	ON GROUND COLLIS	ION WITH OBJECT			
Finding(s) 1. OBJECT - TREE(S) 2. VISUAL LOOKOUT	- INADEQUATE - P	LOT IN COMMAND			
Occurrence #2 Phase of Operation	ON GROUND COLLIS	ON WITH TERRAIN/WATER			
Finding(s) 3. TERRAIN CONDITION	N - DIRT BANK				
Probable Cause	_				
The National Transpor	tation Safety Boar	rd determines that the Pr	robable Cause(s) of this accid	ent was:	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE FAILURE OF THE PILOT TO SEE AND AVOID TREE LIMBS THAT EXTENDED OVER THE EDGE OF THE CANAL. FACTORS
RELATED TO THE ACCIDENT WERE: THE TREE LIMBS AND DIRT BANK NEAR THE EDGE OF THE SELECTED LANDING AREA.

Basic Information Type Operating Certificate-NONE (GENER)	AL AVIATION) . Aircraf	t Damage	•	Injur	ries	
Type operating out the foats none (asken	NONE	t ballage	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew		Ο	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	s 0	1	0	0
Accident Occurred During -STANDING						
Aircraft Information						
Make/Model - CESSNA 172I	Eng Make/Model - LY			Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			tall Warnir	ng System	- YES
Max Gross Wt - 2300	J , ,	CIPROCATING-CARBUR	RETOR			
No. of Seats - 4	Rated Power -	150 HP				
Environment/Operations Information		•				
Weather Data	Itinerary		•	Proximity		
Wx Briefing - NO RECORD OF BRIEFING			ON AIR	PORT		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A Basic Weather - VMC	Destination		Airport D			
Wind Dir/Speed- CALM	LOCAL			C AIRPORT	UNK/NR	
Visibility - 15.0 SM	ATC/Airspace			Ident - Lth/Wid -	,	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance		•		UNK/NR	
Obstructions to Vision- NONE		- NONE		01212		
Precipitation - NONE	,, , , , , , , , , , , , , , , , , , ,					
Condition of Light - NIGHT(DARK)						
Personnel Information						
Pilot-In-Command	Age - 34	Medical Certifica			IVERS/LIM	ΙT
Certificate(s)/Rating(s)	Biennial Flight Review		ght Time (H	•		
PRIVATE	Current - YES	Total -		Last 24		1
SE LAND, ME SEA	Months Since - 1	Make/Model-	326	Last 30	,	13
•	Aircraft Type - PA-23	Instrument-	13	Last 90	Days-	22
		Multi-Eng - \	21	γ		
Instrument Rating(s) - NONE						
ACFT WAS STOPPED ON THE RAMP WITH THE PL	ABOARD. THE ENGINE WAS RUN	NING. THE PAX CROS	SED IN FRO	NT OF THE A	CFT	
WALKED TOWARD THE RIGHT DOOR TO BOARD THE						
INJURIES WERE NOT REALIZED UNTIL SHE BOAF						

File No. - 58 2/25/89 2/25/89 FORT WASHINGTON,MD A/C Reg. No. N8359L Time (Lc1) - 2035 EST

Occurrence #1 PROPELLER/ROTOR CONTACT TO PERSON Phase of Operation STANDING - ENGINE(S) OPERATING

Finding(s)

- 1. LIGHT CONDITION DARK NIGHT
- 2. CLEARANCE NOT MAINTAINED PASSENGER
- 3. JUDGEMENT POOR PILOT IN COMMAND
- 4. SUPERVISION INADEQUATE PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PASSENGER FAILED TO MAINTAIN ADEQUATE CLEARANCE FROM THE PROPELLER AS SHE ATTEMPTED TO BOARD THE AIRCRAFT. BOTH THE PILOT FAILURE TO SUPERVISE THE BOARDING OF THE PASSENGER AND THE NIGHT LIGHT CONDITIONS ARE CONTRIBUTING FACTORS TO THE ACCIDENT.

Type Operating Certificate-NONE (GENE		ft Damage		Injurie		
There are only and the AMCTRUOTION	DESTR		Fatal		Minor	None
Type of Operation -INSTRUCTION Flight Conducted Under -14 CFR 91	NAL Fire NONE	· Crew Pass	1 0	0	0	0
Accident Occurred During -MANEUVERING		Pass	O	O	O	U
Aircraft Information						
Make/Model - CESSNA 150M		ONTINENTAL 0-200-A		Installed/Act		
Landing Gear - TRICYCLE-FIXED	Number Engines -			Stall Warning	System	- YES
Max Gross Wt - 1600		ECIPROCATING-CARBURI	ETOR			
No. of Seats - 2	Rated Power -	100 HP				
Environment/Operations Information Weather Data	Itinerary		Ainnon+	Proximity		
Wx Briefing - NO RECORD OF BRIEFI		+		IRPORT/STRIP		
Method - N/A	FLUSHING, MI		OII A.	INFORT/ STRIF		
Completeness - N/A	Destination		Airport [)ata		
Basic Weather - VMC	LOCAL		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		
Wind Dir/Speed- 180/007 KTS			Runway	/ Ident - N	N/A	
Visibility - 15.0 SM	ATC/Airspace		Runway	Lth/Wid - N	N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE	Runway	/ Surface - N	N/A	
Lowest Ceiling - NONE	Type of Clearance		Runway	/ Status - N	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE				
Precipitation - NONE						
Condition of Light - DAYLIGHT			-			
Personnel Information	A	M 11 - 2 0 - 1 1 6 1 - 1			/FDG / L TM	
Pilot-In-Command Certificate(s)/Rating(s)	Age - 34 Biennial Flight Review	Medical Certifica	te - VALIL nt Time (H		VERS/LIM	11
STUDENT	Current - N/A	Total -		Last 24 F	dne -	1
STODENT	Months Since - N/A	Make/Model-	36	Last 24 F		5
	Aircraft Type - N/A	Instrument-	0	Last 90 D	Days-	11
	All of all Citypo 14/ A	1115 (1 4111511)	Ü	2401 00 2	Juju	
Instrument Rating(s) - NONE						
Narrative						
	THE AIRCRAFT ENTERED A DESC	ENT & COLLIDED WITH	SNOW COVE	RED TERRAIN		
HE STUDENT PILUT WAS PRACTICING STALLS.				DW. WHEN HE		

A/C Reg. No. N66688 Time (Lcl) - 1430 EST 3/22/89 CORUNNA, MI File No. - 131

Occurrence #1 Phase of Operation MANEUVERING

IN FLIGHT COLLISION WITH TERRAIN/WATER

Finding(s)

1. STALL - INTENTIONAL -

- 2. TERRAIN CONDITION SNOW COVERED
- 3. PROPER ALTITUDE NOT MAINTAINED PILOT IN COMMAND
- VISUAL/AURAL PERCEPTION PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE STUDENT PILOT TO MAINTAIN SUFFICIENT ALTITUDE TO RECOVER FROM A PRACTICE STALL MANEUVER. A FACTOR RELATED TO THE ACCIDENT WAS: THE PILOT'S VISUAL PERCEPTION OVER SNOW COVERED TERRAIN.

File No 120 4/02/89	ALLEGAN, MI	A/C Reg. No.	N9504T	T 	ime (Lc1)	- 1220 ED	r
-Basic Information Type Operating Certificate-NONE (G	GENERAL AVIATION)	Aircraft Damag	je		Inju		
		SUBSTANTIAL		Fatal			None
Type of Operation -INSTRUC		Fire	Crew	0	0	0	2
Flight Conducted Under -14 CFR		NONE	Pass	0	0	0	0
Accident Occurred During -TAKEOFF							
-Aircraft Information							
Make/Model - PIPER PA-38-112	Eng Make/	Model - LYCOMING	0-235-L2C	ELT	Installed/	Activated	- YES/N
Landing Gear - TRICYCLE-FIXED		gines - 1			tall Warni	ng System	- YES
Max Gross Wt - 1670		pe - RECIPROCA		TOR			
No. of Seats - 2	Rated Pow	er - 112 HP					
-Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - FSS	Last Dépar	ture Point		ON AIR	PORT		
Method - TELEPHONE	SAME AS						
Completeness - UNK/NR	Destination	· ·		Airport D	ata		
Basic Weather - VMC	LOCAL				M FIELD		•
Wind Dir/Speed- 250/013 KTS	2007.2					- 28	
Visibility - 12.0 SM	ATC/Airspace				Lth/Wid		75
Lowest Sky/Clouds - N/A		ight Plan - NONE			Surface		, 0
	OVERCAST Type of Cl					- DRY	
Obstructions to Vision- NONE	Type Apch/			Kullway	Jiaias	DKT	
Precipitation - NONE	Type Apcily	Lindy - Noine					
Condition of Light - DAYLIGHT	-						
-Personnel Information Pilot-In-Command	Age - 26	Medica	ıl Certifica	e - VALID	MEDICAL-N	O WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight			nt Time (F		,	
COMMERCIAL.CFI	Current		otal -	591	Last 2	4 Hrs -	5
SE LAND	Months Since	- 4 Ma		53	last 3	O Days-	43
SE EARD	Aircraft Typ	- 4 M a e - PA-28 In	strument-	114	Last 9	O Days-	71
,	7,1					•	
Instrument Rating(s) - AIRPLA							
-Narrative							
CFI REPORTED THAT THE DUAL STUDENT P	THE TAK	FOFF POLL WITH AT	LEBON INTO	HE WIND (LEET ATLED	ON.)	
THAT HE RELAXED AILERON PRESSURE PRE							
YING LEFT RUDDER & LEFT BRAKE. AT TH							
TYING LEFT RUDDER & LEFT BRAKE. AT THE RVED TO THE LEFT & THE CFI WAS UNABLE							
FUE DUV. ENGOUNTEDED "COET CDACC" O 1			THE PLI LIME	THE CEL	HAD UBIAIN	EN HT2	
THE RWY, ENCOUNTERED "SOFT GRASS" & W	AS DAMAGED. THE STUDEN	CTNOS TUAT TIME	OI ILI IIML				
THE RWY, ENCOUNTERED "SOFT GRASS" & W RATING ON 12/20/88 & HAD ACCUMULATED) 82 HRS OF INSTRUCTION	SINCE THAT TIME.	OF TET TIME				

A/C Reg. No. N9504T 4/02/89 File No. - 120 ALLEGAN, MI Time (Lcl) - 1220 EDT Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. WEATHER CONDITION - CROSSWIND 2. FLIGHT CONTROLS - IMPROPER USE OF - DUAL STUDENT 3. DIRECTIONAL CONTROL - NOT MAINTAINED - DUAL STUDENT 4. GROUND LOOP/SWERVE - INADVERTENT - DUAL STUDENT 5. LACK OF TOTAL EXPERIENCE - DUAL STUDENT 6. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) 7. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND(CFI) Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF Finding(s)

8. TERRAIN CONDITION - SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF FLIGHT CONTROLS BY THE STUDENT PILOT, WHICH RESULTED IN HIS LOSS OF DIRECTIONAL CONTROL AND AN INADVERTENT GROUND SWERVE; AND THE INSTRUCTOR PILOT'S (CFI'S) INADEQUATE SUPERVISION. FACTORS RELATED TO THE ACCIDENT WERE: THE CROSSWIND CONDITION, THE STUDENT PILOT'S LACK OF TOTAL EXPERIENCE, THE CFI'S LACK OF EXPERIENCE IN THE TYPE OF OPERATION, AND SOFT TERRAIN.

File No 179 5/01/89 WI	XOM, MI A/	C Reg. No. N132BC	No. N132BC Time (Lc1) - 1500 EDT			
-Basic-Information Type Operating Certificate-NONE (GEN		raft Damage		Injur		
		TROYED	Fatal	Serious		None
Type of Operation -OTHER WOR			_	0	1	0
Flight Conducted Under -14 CFR 91	NON	E Pass	. 0	Ο.	0	1
Accident Occurred During -DESCENT						
-Aircraft Information						
Make/Model - CESSNA 320D		CONTINENTAL TSIO-520		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE			S	tall Warnir	ng System	- YES
Max Gross Wt - 4300		RECIP-FUEL INJECTED				
No. of Seats - 6	Rated Power -	285 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEF		int	OFF AI	RPORT/STRIP	•	
Method - N/A	PONTIAC, MI					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- 060/015 KTS					N/A	
Visibility - 12.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - 15000 FT S	CATTERED Type of Flight Pla	an - NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance	- NONE	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 - 52	Medical Certifica			IVERS/LIM	IT
Certificate(s)/Rating(s)	Biennial Flight Review	Flig	ht Time (H			
COMMERCIAL	Current - YES	Total - Make/Model-		Last 24		2
SE LAND, ME LAND				Last 30		31
	Aircraft Type - C-3	20D Instrument-	297	Last 90	Days-	41
		Multi-Eng -	2110			
Instrument Rating(s) - AIRPLANE						
				 FUEL		
AUSTION. THE PILOT DECLARED AN EMERGENO					0	
CH THE AIRPORT, AND EXECUTED A FORCED L	ANDING IN A WOODED AREA APPI	ROXIMATELY 1/2 MILE S	OUTHEAST O	F IT. THE		

5/01/89 File No. - 179 WIXOM, MI A/C Reg. No. N132BC Time (Lcl) - 1500 EDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation MANEUVERING 1. AIRCRAFT PREFLIGHT - POOR - PILOT IN COMMAND 2. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND 3. INATTENTIVE - PILOT IN COMMAND 4. FLUID, FUEL - EXHAUSTION Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - EMERGENCY Finding(s) 5. OBJECT - TREE(S) 6. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S INATTENTION TO THE FUEL SYSTEM DURING PREFLIGHT AND INADEQUATE FUEL SYSTEM MONITORING THROUGHOUT THE FLIGHT.

-Basic Information Type Operating Certificate-NONE (G	ENEDAL AVIATION)	Aircraft Damag	70		Iniun	ios	
Type operating certificate-none (G	ENERAL AVIATION)	SUBSTANTIAL	ge .	Fatal	Injur Serious	Minor	None
Type of Operation -PERSONA	L .	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR		NONE	Pass	0	0	0	1
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - STINSON 108-1 Landing Gear - TAILWHEEL-ALL FIXE	Eng Make	Model - FRANKLIN	6A4-150-B3	ELT	Installed/A	ctivated	- YES/Y
Max Gross Wt - 2230		ingines - 1 Vpe - RECIPROCA	ATTNG-CAPRIDET		Stall Warnin	g System	- NU
No. of Seats - 4	Rated Po	, ·		OK .			
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRI	•	rture Point		ON AIF	PORT		
Method - N/A		CHMOND, WI					
Completeness - N/A Basic Weather - VMC	Destination	on S ACC/INC	А	irport [sta ST. PAUL		
Wind Dir/Speed- 290/020 KTS	SAME AS	ACC/ INC			Ident -	34	
Visibility - 10.0 SM	ATC/Airspac	e ·			Lth/Wid -		100
Lowest Sky/Clouds - 5000 FT					Surface -		
Lowest Ceiling - NONE	Type of 0			Runway	Status -	SNOW - C	OMPACTE
Obstructions to Vision- NONE	Type Apch	n/Lndg - FULL	STOP				
Precipitation - NONE Condition of Light - NIGHT(DA	DK)						
Personnel Information Pilot-In-Command	Age - 34	Medica	al Certificate	- VALIC	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight		Flight				
PRIVATE	Current	- YES To	otal -	296	Last 24		3
SE LAND	Months Sind Aircraft Ty	ce - 16 Ma vpe - C-172 In	ake/Model-	'0 / /ND	Last 30	Days-	8 12
	Alleraters	γρe - C-172 17 Μι	ake/Model- nstrument- UNK ulti-Eng - UNK	/NR /NR	Rotorcr	aft - UN	IK/NR
Instrument Rating(s) - NONE							
Narrative		LOOVEDED DUNING	AT NICHT THE	CUT FOUR	DDED		
LE ATTEMPTING TO LAND PARALLEL TO RUN CRAFT LOST DIRECTIONAL CONTROL, GROUN							
KALI LUGI DIKECIIUNAL CUNIKUL, UKUUN	U LUUTED, AND ENDED C	IF UN II 3 NUSE. A	JO DEGKEE FEL	1 CK0331	TIMD OF		

File No	23 1/15/89	SOUTH ST. PAUL, MN	A/C Reg. No. N8726K	Time (Lcl) - 1800 CST
Occurrence #1 Phase of Operation	LOSS OF CONTROL LANDING - ROLL	- ON GROUND		
Finding(s) 1. WEATHER CONDITI 2. AIRCRAFT CONTRO		- PILOT IN COMMAND		·
Occurrence #2 Phase of Operation		ION WITH TERRAIN/WATER		
Occurrence #3 Phase of Operation	NOSE DOWN LANDING - ROLL			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO MAINTAIN DIRECTIONAL CONTROL OF THE AIRPLANE. CONTRIBUTING TO THE ACCIDENT WERE THE CROSSWIND CONDITIONS.

File No 138 2/13/89 CROOK	STON, MN A/C	Reg. No. N95975	Т	ime (Lcl) - 16	30 CST	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -INSTRUCTIONA Flight Conducted Under -14 CFR 91	SUBSTA	ft Damage NTIAL Crew Pass	-	Injuries Serious M O O	inor O O	None 2 0
Accident Occurred During -LANDING						
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED	Eng Make/Model - L' Number Engines -			Installed/Activ		
Max Gross Wt - 1670 No. of Seats - 2	Engine Type - Ri				,	. 20
Environment/Operations Information						
Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 290/010 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Itinerary Last Departure Point GRAND FORKS,ND Destination CROOKSTON,MN ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg Age - 25 Biennial Flight Review	- NONE - NONE - TOUCH AND GO Medical Certifica	ON AIR Airport D KIRKWO Runway Runway Runway Runway	ata OD FLD Ident - 31 Lth/Wid - 3! Surface - ASI Status - DR' MEDICAL-WAIVE	502/ PHALT Y	75
COMMERCIAL, CFI	Current - YES	Total -	582	Last 24 Hrs		1
SE LAND, ME LAND	Months Since - 7	Make/Model-	326	Last 30 Day Last 90 Day	ys-	58
	Aircraft Type - B-76	Instrument- Multi-Eng -	78 35	Last 90 Day Rotorcraft	ys- -	130 0
Instrument Rating(s) - AIRPLANE						
THE CFI AND STUDENT PILOT HAD COMPLETED 3 TOU GOING TO FLY JUST ABOVE THE RUNWAY TO ASSIST AND A GO AROUND MANUEVER WAS INITIATED. THE S DEGREE POSITION. THE ACFT DESCENDED, DRIFTED CROSS WIND EXISTED AT THE TIME OF THE ACCIDEN CESSNA 152.	CH AND GOES WITHOUT INCIDENT THE STUDENT JUDGE HIS FLARENT TUDENT ADDED FULL POWER AND TO THE LEFT, STRUCK A SNOW	NT, AND ON THE FOUR E HEIGHT. THE LEFT I D THE CFI RETRACTED BANK AND CAME TO RI	TH ATTEMPT MAIN GEAR THE FLAPS EST INVERT	THE CFI WAS TOUCHED DOWN TO THE 2O ED. A SLIGHT R:		

File No. - 138 2/13/89 CROOKSTON, MN A/C Reg. No. N95975 Time (Lc1) - 1630 CST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING - ABORTED Finding(s) 1. GO-AROUND - ATTEMPTED - DUAL STUDENT 2. RAISING OF FLAPS - PREMATURE - PILOT IN COMMAND(CFI) PROPER ALIGNMENT - NOT MAINTAINED - PILOT IN COMMAND(CFI) 4. WEATHER CONDITION - CROSSWIND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ABORTED Finding(s) 5. TERRAIN CONDITION - SNOWBANK ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PREMATURE RAISING OF FLAPS AND THE FAILURE OF THE INSTRUCTOR PILOT TO MAINTAIN RUNWAY ALIGNMENT DURING THE ATTEMPTED GO AROUND.

Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION)	Airc	raft Damage			Injur	ies	•
	•		STANTIAL		Fatal	Serious	Minor	None
Type of Operation -INSTRUCTION	NAL	Fire		Crew	0	0 0	0	1
Flight Conducted Under -14 CFR 91		NON	<u> </u>	Pass	0	Ö	0	0
Accident Occurred During -LANDING								
Aircraft Information								
Make/Model - CESSNA 172	Eng	Make/Model -	LYCOMING 0-32	O-H2AD				
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300			1 RECIPROCATING			tall Warnir	ng System	- YES
No. of Seats - 4		• •	160 HP	-CARBURE	IUK			
							· 	
Environment/Operations Information								
Weather Data Wx Briefing - PATWAS	Itinera	ry Departure Po [.]	in+		Airport ON AIR	Proximity		
Method - TELEPHONE		ND RAPIDS,MN	int		UN AIR	PURI		
Completeness - UNK/NR	Destin				Airport D	ata		
Basic Weather - VMC	LOC					RAPIDS		
Wind Dir/Speed- 280/010 KTS							34	
Visibility - 15.0 SM	ATC/Air					Lth/Wid -		100
Lowest Sky/Clouds - 3000 FT SC						Surface -		
Lowest Ceiling - NONE		of Clearance			Runway	Status -	DRY	
Obstructions to Vision- NONE Precipitation - NONE	туре	apen/ Lnag	- FULL STOP					
Condition of Light - DAYLIGHT								·
Personnel Information Pilot-In-Command	Age - 1	9	Medical Ce	rtificat	e - VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Fl	9 ight Review - N/A						
STUDENT	our reme	14/ 5		-	34	Last 24	Hrs - UN	K/NR
		Since - N/A	Make/M	ode1-	34	Last 30	Days-	6
	Aircraf	t Type - N/A	Instru	ment- UN	IK/NR	Last 30 Last 90 Rotorcr	Days-	13
			. Multi-	Eng - UN	IK/NR	Rotorcr	aft - UNI	K/NR
Instrument Rating(s) - NONE								
Narrative E PRACTICING TAKE-OFFS AND LDGS, THE STI	IDENT DILOT CA	ID THAT DOTO	TO TOUCH-DOW	N DUDING	THE LAND	TNC ELADE	Λ	
E PRACIICING TARE-UPPS AND LUGS, THE STO			FF THE RUNWAY				А	

File No. - 69 2/28/89 A/C Reg. No. N6418D GRAND RAPIDS, MN Time (Lcl) - 1330 CST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. WEATHER CONDITION - CROSSWIND 2. WEATHER CONDITION - GUSTS 3. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND 4. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Occurrence #3 NOSE OVER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. TERRAIN CONDITION - SNOWBANK ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO ADEQUATELY COMPENSATE FOR THE CROSSWIND CONDITIONS. CONTRIBUTING TO THE ACCIDENT WERE THE GUSTY CROSSWIND CONDITIONS.

File No 71 3/01/89 CROOK	STON,MN . A/C I	Reg. No. N5329B	Time (Lc1) -	1615 CST	
Basic Information Type Operating Certificate-NONE (GENERA	SUBSTA		Injur Fatal Serious O O	ies Minor O	None 1
Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L Fire NONE	Crew Pass	0 0	0	Ö
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Number Engines - Engine Type - RI	COMING 0-235-N2C 	Stall Warnin		
-Environment/Operations Information Weather Data Wx Briefing - COMMERCIAL WX SERVICE Method - TELETYPE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 320/014 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 25000 FT THIN Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point GRAND FORKS,ND Destination CROOKSTON,MN ATC/Airspace BKN Type of Flight Plan Type of Clearance Type Apch/Lndg	Air - NONE - NONE	irport Proximity ON AIRPORT rport Data CROOKSTON Runway Ident - Runway Lth/Wid - Runway Surface - Runway Status -	3502/	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 24 Biennial Flight Review Current - N/A Months Since - N/A Aircraft Type - N/A	Total - Make/Model-	Fime (Hours) 16 Last 24 16 Last 30 NR Last 90	Hrs - Days-	1 10 16
Instrument Rating(s) - NONENarrative E STUDENT PILOT SAID THAT AFTER PERFORMING (GHT. THE FIRST LANDING WAS	ACCOMPLISHED WITHOUT I	INCIDENT, BUT ON	 ED	
E SECOND LANDING, DIRECTIONAL CONTROL WAS LO ER. THE RUNWAY HAD BEEN PLOWED, BUT WAS STI RFACE WAS QUITE ROUGH IN PLACES.					

File No	71 3/01/89 CROOKSTON,MN	A/C Reg. No. N5329B	Time (Lcl) - 1615 CST
Occurrence #1 Phase of Operation	LOSS OF CONTROL - ON GROUND LANDING - ROLL		
Finding(s) 1. TERRAIN CONDITIO 2. TERRAIN CONDITIO 3. AIRCRAFT CONTRO			
Occurrence #2 Phase of Operation	ON GROUND COLLISION WITH OBJECT LANDING - ROLL		·
Occurrence #3 Phase of Operation			
inding(s)	DN - SNOWBANK		

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN CONTROL OF THE AIRPLANE DURING THE LANDING ROLL. CONTRIBUTING TO THE ACCIDENT WAS THE ICY/SNOW COVERED RUNWAY.

File No 186 4/08/89 LA	KE ELMO, MN	A/C Reg.	No. N9424V	Т	ime (Lcl) -	0800 CDT	
Basic Information Type Operating Certificate-NONE (GEN	ERAL AVIATION)	Aircraft Da			Injur		
		SUBSTANTIA		Fatal			None
Type of Operation -PERSONAL		Fire	Crew	_	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Pass	Ο.	0	0	1
Aircraft Information							
Make/Model - MOONEY M20E		/Model - LYCOMI	NG ID-360-A1A		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE		ngines - 1		S	itall Warnin	g System	- YES
Max Gross Wt - 2575		ype - RECIP-					
No. of Seats - 4	Rated Po	wer - 200	HP				.
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
<pre>Wx Briefing - NO RECORD OF BRIEF</pre>		rture Point		OFF AI	RPORT/STRIP		
Method - N/A	LAKE EL	.MO,MN					
Completeness - N/A	Destinatio			Airport D			
Basic Weather - VMC	FARGO,N	ID		LAKE E			
Wind Dir/Speed- 350/017 KTS					Ident -		
Visibility - 15.0 SM	ATC/Airspac				Lth/Wid -		75
Lowest Sky/Clouds - 2000 FT S					Surface -		
Lowest Ceiling - NONE	Type of C	learance - NC	NE	Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch	ı/Lndg - F0	RCED LANDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 24 Biennial Flight	Med	lical Certifica	te - VALID	MEDICAL-WA	IVERS/LIM	IIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	Flig	ht Time (H	lours)		
PRIVATE	Current	- UNK/NR	Total -		Last 24	Hrs -	1
SE LAND	Months Sinc	e - UNK/NR	Make/Model-	109	Last 30	Days- UN	IK/NR
	Aircraft Ty	pe - UNK/NR	Make/Model- Instrument-	8	Last 90	Days-	8
			Multi-Eng -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE							
Narrative							
ORTLY AFTER DEPARTURE FOR A PERSONAL CRO							
ITCHED ON THE AUXILIARY FUEL PUMP WHICH							
HEN THE ENGINE FAILED. AN EMERGENCY LANDI	NG WAS ATTEMPTED ON	I A SOFT, MUDDY	FARM FIELD RES	ULTING IN	SUBSTANTIAL		
MAGE TO THE AIRPLANE. POST ACCIDENT INVE			OR TO BE ON TH	E RIGHT HA	ND TANK, IN		
ICH THERE WAS NO VISABLE FUEL. THE ACFT	WAS OUT OF ANNUAL I	NSPECTION.					
	•						

4/08/89 LAKE ELMO, MN A/C Reg. No. N9424V Time (Lcl) - 0800 CDT File No. - 186 Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CLIMB Finding(s) 1. FUEL TANK SELECTOR POSITION - IMPROPER - PILOT IN COMMAND 2. FLUID, FUEL - STARVATION 3. MAINTENANCE, ANNUAL INSPECTION - NOT PERFORMED -Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 4. EMERGENCY PROCEDURE - IMPROPER - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

FUEL TANK SELECTOR IMPROPERLY POSITIONED, EMERGENCY PROCEDURE IMPROPERLY PERFORMED BY THE PILOT, AND FUEL STARVATION.

File No 185 4/15/89 ROSEA	U,MN A/C Reg	g. No. N23702	Time	(Lc1) - 1000 CDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	L AVIATION) Aircraft SUBSTAN Fire NONE		Fatal Ser O	Injuries rious Minor O O	None 1 0
Accident Occurred During -LANDING					
Aircraft Information Make/Model - AIR TRACTOR AT-301 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 5000 No. of Seats - 1			Stall	alled/Activated Warning System	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 180/015 KTS Visibility - 15.0 SM	Itinerary Last Departure Point ROSEAU,MN Destination THIEF RIVER FLS,MN ATC/Airspace		Airport Prox OFF AIRPORT irport Data Runway Ider Runway Lth	r/STŔIP nt - N/A	
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Flight Plan - Type of Clearance - Type Apch/Lndg - •	NONE	Runway Sta	face - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND	Age - 63 Biennial Flight Review Current - YES Months Since - 25 Aircraft Type - C-172	Medical Certificate Flight Total - 26 Make/Model- 1 Instrument- 1 Multi-Eng - 2	Time (Hours) 671 L 250 L 248 L) _ast 24 Hrs - UN _ast 30 Days- UN	IK/NR IK/NR IK/NR
Instrument Rating(s) - AIRPLANE					
Narrative HE PLT SAID THAT SHORTLY AFTER TAKEOFF AND R HE WAS ABLE TO GET SEVERAL SHORT BURSTS OF PO OWER. AN EMERGENCY LDG WAS ATTEMPTED IN A SW HERE WAS A POSSIBILITY OF ICE IN THE FUEL LI EING FLOWN TO ANOTHER APT FOR AN ANNUAL INSP	WER BY OPERATING THE HAND FUI AMP AREA WHICH RESULTED IN TH NES DUE TO THE EXISTING SUB-I	EL PUMP, BUT WAS UN HE ACFT NOSING OVER	ABLE TO SUSTA . THE PLT FE	AIN ENGINE _T	

File No. - 185 4/15/89 ROSEAU, MN A/C Reg. No. N23702 Time (Lcl) - 1000 CDT Occurrence #1 LOSS OF ENGINE POWER Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. FUEL SYSTEM - ICE 2. FLUID, FUEL - STARVATION 3. WEATHER CONDITION - TEMPERATURE EXTREMES Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. TERRAIN CONDITION - NONE SUITABLE Occurrence #4 NOSE OVER Phase of Operation LANDING - FLARE/TOUCHDOWN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraf	t Damage		Injur	ies	
·) - - - - - - - -	SUBSTA		Fatal	•		None
Type of Operation -PERSONAL	Fire	Crew	0	0 0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	NONE	Pass	0	0	0	0
Aircraft Information						
Make/Model - CESSNA 150	Eng Make/Model - CO					
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600	Number Engines - 1 Engine Type - RE			tall Warning	g System	- YES
No. of Seats - 2	Rated Power -					
Environment/Operations Information						
Weather Data	Itinerary	The Control of the Co		Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Point CREVE COEUR.MO		OFF AI	RPORT/STRIP		
Completeness - N/A	Destination		Airport D	2+2		
Basic Weather - VMC	JACKSONVILLE,IL		All point b	ata		
Wind Dir/Speed- 300/007 KTS	OAGNOON TEEL, TE		Runwa∨	Ident -	N/A	
Visibility - 10.0 SM	ATC/Airspace			Lth/Wid -	N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE	Runway	Surface -	N/A	
Lowest Ceiling - NONE	Type of Clearance		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 - 42	Medical Certifica	te - VALID	MEDICAL-WAI	VERS/LIM	TT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	ht Time (H	ours)		
PRIVATE	Current - YES	Total -	1774	Last 24	Hrs -	2
SE LAND	Months Since - 9 Aircraft Type - PA-28	Make/Model-	1725	Last 30	Days-	6
	Aircraft Type - PA-28	Make/Model- Instrument- Multi-Eng - U	14	Last 90	Days-	30
		Multi-Eng - U	NK/NR	Rotorcra	aft - UN	K/NR
Instrument Rating(s) - NONE						
Narrative						
PVT PILOT SAID THAT HE INTENDED TO FLY DU	E NORTH ABOUT 65 MLES TO PU	RCHASE ACFT FUEL.	AFTER ABOU	T TWO HOURS		
HT TIME HE WAS ABLE TO IDENTIFY HIS POSIT						
IDLING FUEL SUPPPLY AND HAD PICKED OUT A F	ARM FIELD TO LAND ON, WHEN	THE ENGINE FAILED. DENT OCCURRED ABOU				

File No. - '40 2/11/89 WAYLAND, MO A/C Reg. No. N61064 Time (Lcl) - 1124 CST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. BECAME LOST/DISORIENTED - ENCOUNTERED - PILOT IN COMMAND 2. FLUID, FUEL - EXHAUSTION FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY IN FLIGHT COLLISION WITH OBJECT Occurrence #3 Phase of Operation DESCENT - EMERGENCY Finding(s) 3. OBJECT - TREE(S) IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #4 Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT BECOMING LOST DURING THE FLIGHT WHICH RESULTED IN FUEL EXHAUSTION.

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2/23/89
       File No. -
                                      KANSAS CITY.MO
                                                                A/C Reg. No. N25909
                                                                                               Time (Lc1) - 1420 CST
----Basic Information----
      Type Operating Certificate-NONE (GENERAL AVIATION)
                                                               Aircraft Damage
                                                               SUBSTANTIAL
                                                                                         Fatal
                                                                                                  Serious
                                                                                                             Minor
                                                                                                                      None
      Type of Operation
                               -PERSONAL
                                                               Fire
                                                                                            0
                                                                                   Crew
                                                                                                      0
                                                                                                                        1
      Flight Conducted Under
                              -14 CFR 91
                                                               NONE
                                                                                   Pass
                                                                                            0
      Accident Occurred During -LANDING
  --Aircraft Information----
      Make/Model ~ CESSNA 152
                                                   Eng Make/Model - LYCOMING 0-235-L2C
                                                                                            ELT Installed/Activated - YES/NO
      Landing Gear - TRICYCLE-FIXED
                                                   Number Engines - 1
                                                                                               Stall Warning System - YES
      Max Gross Wt - 1670
                                                   Engine Type
                                                                 - RECIPROCATING-CARBURETOR
      No. of Seats -
                                                   Rated Power
                                                                      110 HP
   -Environment/Operations Information----
    Weather Data
                                                Itinerary
                                                                                        Airport Proximity
      Wx Briefing
                     - NO RECORD OF BRIEFING
                                                  Last Departure Point
                                                                                          OFF AIRPORT/STRIP
       Method
                     - N/A
                                                    LAWRENCE.KS
       Completeness - N/A
                                                 Destination
                                                                                        Airport Data
      Basic Weather - VMC
                                                    LIBERTY, MO
       Wind Dir/Speed- 160/005 KTS
                                                                                          Runway Ident
       Visibility - 10.0 SM
                                                ATC/Airspace
                                                                                          Runway Lth/Wid - N/A
       Lowest Sky/Clouds -
                               20000 FT SCATTERED Type of Flight Plan - NONE
                                                                                          Runway Surface - N/A
       Lowest Ceiling
                              NONE
                                                  Type of Clearance - NONE
                                                                                          Runway Status - N/A
       Obstructions to Vision- NONE
                                                  Type Apch/Lndg - PRECAUTIONARY LANDING
       Precipitation - NONE
       Condition of Light - DAYLIGHT
 ---Personnel Information----
    Pilot-In-Command
                                            Age - 30
                                                                      Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT
                                            Biennial Flight Review
                                                                                  Flight Time (Hours)
      Certificate(s)/Rating(s)
         COMMERCIAL
                                              Current - YES
                                                                                  - 1196
                                                                          Total
                                                                                                    Last 24 Hrs -
         SE LAND.ME LAND
                                             Months Since - 11
                                                                          Make/Model-
                                                                                        154
                                                                                                    Last 30 Days-
                                                                                                                     78
                                                Aircraft Type - PA-44
                                                                         Instrument-
                                                                                       195
                                                                                                  Last 90 Davs-
                                                                                                   Rotorcraft - UNK/NR
                                                                          Multi-Eng -
                                                                                       31
         Instrument Rating(s) - AIRPLANE
THE PLT SAID WHILE IN NORMAL CRUISE CONFORMATION, THE ENGINE MISFIRED. HE APPLIED CARB HEAT AND THE ENGINE
PERFORMED NORMALLY. HE REMOVED THE CARB HEAT AND IN ABOUT 2 TO 3 MINUTES THE ENGINE LOST SUBSTANTIAL POWER. CARB
HEAT WAS THEN APPLIED WHICH RESULTED IN A GAIN IN POWER, BUT NOT TO NORMAL SPECIFICATIONS. THE PLT MADE A
DECISION TO MAKE AN EMERGENCY LDG ON THE ONLY AVAILABLE SPACE. HE REDUCED THE POWER TO IDLE, APPLIED FULL FLAPS
AND ATTEMPTED TO LAND ON A FIELD. HE FELT THE ENGINE HAD CLEARED ENOUGH FOR A POSSIBILITY FOR CONTINUATION OF THE
FLIGHT BUT ELECTED TO CONTINUE WITH THE LANDING. THE ACFT LANDED ON A FIELD, RAN ONTO A ROAD AND STRUCK A
TELEPHONE POLE WITH THE RIGHT WING. METEOROLOGICAL CONDITIONS WERE CONDUCIVE FOR THE FORMATION OF CARB ICE
ACCORDING TO THE "CARBURETOR ICING PROBABILITY CHARTS." THE TEMP WAS 26 DEG F AND DEWPOINT WAS 3 DEGS F.
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File No. - 55 2/23/89 KANSAS CITY,MO A/C Reg. No. N25909 Time (Lc1) - 1420 CST

Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF
Phase of Operation CRUISE

Finding(s)

1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS
2. CARBURETOR HEAT - IMPROPER USE OF - PILOT IN COMMAND

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

Finding(s)
3. OBJECT - POLE
4. PRECAUTIONARY LANDING - PERFORMED - PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

IMPROPER USE OF THE CARBURETOR HEAT CONTROL BY PILOT IN COMMAND.

Type Operating Certificate-NONE (GENERA	•	t Damage	r	C -	Injuri rious	es Minor	Mana
Type of Operation -PERSONAL	SUBSTA Fire	NIIAL Crew	Fatal O	2e	0	Minor	None 1
Flight Conducted Under -14 CFR 91	NONE				0	Ö	Ö
Accident Occurred During -LANDING	···-		. -				
-Aircraft Information							
Make/Model - CESSNA 150	Eng Make/Model - CO		ELT			tivated	
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600	Number Engines - 1 Engine Type - RE	CIPROCATING-CARBURE	TÓD	Stall	Warning	System	- YES
No. of Seats - 2	Rated Power -						
Weather Data	Itinerary		Airport				
Wx Briefing - NO RECORD OF BRIEFING	•		OFF A	IRPOR	T/STRIP		
Method - N/A	HANNIBAL, MO			0-4-			
Completeness - N/A Basic Weather - VMC	Destination SAME AS ACC/INC		Airport	υατα			
Wind Dir/Speed- 160/004 KTS	SAME AS ACC/INC		Punwa	y Ide	n+ -	N/A	
Visibility - 4.000 SM	ATC/Airspace				/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		•	face -	•	
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runwa	y Sta	tus -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LANDING					
Precipitation - NONE							
Condition of Light - DUSK							
-Personnel Information Pilot-In-Command	Age - 58	Medical Certificat	- VALT	D MED	[CA] ~WAT	VEDS/ITM	T T
Certificate(s)/Rating(s)	Biennial Flight Review		nt Time (VERS/ ETM	- 1
PRIVATE	Current - YES	Total -			ast 24	Hrs -	2
SE LAND	Months Since - 19	Make/Model-	38	1	ast 30 ast 90	Days-	5
	Aircraft Type - C-172	Instrument- UN	•				10
		Multi-Eng - UN	IK/NR	ļ	Rotorcra	ft - UN	K/NR
Instrument Rating(s) - NONE							
PLT SAID THAT HE WAS ATTEMPTING TO LAND B	LIT WAS DISSATISFIED WITH HI	S APPROACH SO FLECT	FD TO GO) AROUI	ND.		
UT 20 TO 30 SECONDS LATER, THE ENGINE BEGA							

File No	91 3/10/89	MONROE CITY,MO	A/C Reg. No. N8079S	Time (Lc1) - 1830 CST
Occurrence #1 Phase of Operation		POWER		•
Finding(s) 1. FLUID,FUEL GRAD 2. FLUID,FUEL - CO 3. OPERATION WITH	NTAMINATION	IN EQUIPMENT - IMPROPE	R USE OF - PILOT IN COMMAND	
Occurrence #2 Phase of Operation		NCY		
Occurrence #3 Phase of Operation				
Probable Cause			· · · · · · · · · · · · · · · · · · ·	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL CONTAMINATION AND THE PILOT'S FAILURE TO COMPLY WITH A MAINTENANCE AD. CONTRIBUTING TO THE ACCIDENT WAS THE PILOT'S OPERATION OF THE AIRPLANE WITH A KNOWN DEFICIENCY.

Type Operating Certificate-NONE (GENERA		t Damage		Injur		
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTA Fire NONE		Fatal ew O ss O	Serious O O	Minor O O	None 1 4
-Aircraft Information	·					
Make/Model - CESSNA 210L Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3400 No. of Seats - 6	Eng Make/Model - CO Number Engines - 1 Engine Type - RE Rated Power -	CIP-FUEL INJECTE	5	Installed/A Stall Warnin		
-Environment/Operations Information						
Weather Data Wx Briefing - UNK/NR Method - UNK/NR	Itinerary Last Departure Point ATLANTA,GA		Airport ON AIF	Proximity RPORT		
Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 170/004 KTS Visibility - 7.0 SM	Destination SAME AS ACC/INC ATC/Airspace		Runway	OOD LEFLORE	18	150
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	Type of Flight Plan Type of Clearance Type Apch/Lndg	- IFR	Runway	/ Surface -		
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 28 Biennial Flight Review	Medical Certifi Fl	cate - UNK/N			
PRIVATE SE LAND	Current - YES Months Since - 4 Aircraft Type - UNK/NR	Total - Make/Model- Instrument- Multi-Eng -	300 UNK/NR	Last 30 Last 90	Hrs - UN Days- UN Days- UN aft - UN	IK/NR IK/NR
Instrument Rating(s) - AIRPLANE						
-Narrative PLT RPRTD THAT AFTER A BOUNCED LANDING A ER FOR A GO-AROUND. A WITNESS RPRTD THE AG , APRX 150 FT TO THE RGT OF THE RUNWAY & (EVER, AN OPERATIONAL CHECK & DISASSEMBLY (CFT "STAGGERED" INTO THE AIR WAS DAMAGED. THE PLT RPRTD T	. SUBSEQUENTLY, HAT SHE BELIEVED	THE ACFT HIT	A BALE OF KE HAD SEIZ	ED.	

A/C Reg. No. N590GC File No. - 124 1/06/89 GREENWOOD, MS Time (Lcl) - 1940 CST Occurrence #1 LOSS OF CONTROL - ON GROUND LANDING - ROLL Phase of Operation Finding(s) 1. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 2. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND IN FLIGHT COLLISION WITH OBJECT Occurrence #2 Phase of Operation LANDING - ABORTED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN DIRECTIONAL CONTROL, WHICH RESULTED IN AN INADVERTENT GROUND SWERVE.

File No 122 1/10/89	ROSE HILL, MS	A/C Reg. No.	N9378N	Time (Lcl) - 1912 C			Г
Basic Information Type Operating Certificate-NONE	(GENERAL AVIATION)	Aircraft Damage			Injur		
T	500	SUBSTANTIAL		Fatal	Serious		None
Type of Operation -BUSIN		Fire	Crew	0	1	0	0
Flight Conducted Under -14 CF		NONE	Pass	0	0	0	0
Accident Occurred During -LANDI	NG 						
Aircraft Information							
Make/Model - PIPER PA-28R-200	Eng Make,	Model - LYCOMING I	0-360-C1C	ELT	Installed/A	ctivated	- YES/YE
Landing Gear - TRICYCLE-RETRACT	ABLE Number Er	ngines - 1		S	tall Warnir	g System	- YES
Max Gross Wt - 2600	Engine Ty	pe - RECIP-FUEL	INJECTED			- ,	
No. of Seats - 4	Rated Po	ver - 200 HP					
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - FSS	Last Depar	rture Point			RPORT/STŔIF	,	
Method - TELEPHONE	GASTONIA				, •		
Completeness - UNK/NR	Destination	•	Δ	irport D	ata		
Basic Weather - IMC	MERIDIAN						
Wind Dir/Speed- 040/007 KTS		.,		Runway	Ident -	N/A	
Visibility - 2.000 SM	ATC/Airspace	2			Lth/Wid -		
Lowest Sky/Clouds - N/A		ight Plan - IFR			Surface -		
	FT OVERCAST Type of C				Status -		
Obstructions to Vision- FOG	· · · · · · · · · · · · · · · · · · ·	Lnda - FORCED	LANDING	Runway	Status	IN/ A	
Precipitation - NONE	Type Apcily	Lindy FURCED	LANDING				
Condition of Light - NIGHT(חאפא)						
Condition of Light Midnit							
Personnel Information							
Pilot-In-Command	Age - 54	Medical	Certificate	- VALID	MEDICAL-NO	WAIVERS/	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	Flight	Time (H	ours)		
PRIVATE	Current			976	Last 24		5
SE LAND	Months Since	e - 6 . Mak	e/Model-	271	Last 30	Days-	5
	Aircraft Typ	oe - PA-28 Ins		221	Last 90	Days-	35
Instrument Rating(s) - AIRP	LANE						
Narrative							
PLT RPRTD THAT DURING AN INSTRUMEN							
CEIVING THE ILS SIGNAL. HE ABANDONED							
G LOST POWER & THE ACFT CRASHED DURI							
RNED ON & THE FUEL PUMPS, RADIOS & E		P WAS FOLKED TO BE	WITHIN NORMA	L LIMITS	. A CHECK C	F THE	
MALFUNCTION. THE AIRPORT ILS SYS WA							
					THE FUEL S		
MALFUNCTION. THE AIRPORT ILS SYS WA	QUARTS OF FUEL IN THE F	RIGHT TANK & 9 QUAR	TS IN THE LE	FT TANK.			

1/10/89 File No. - 122 ROSE HILL, MS A/C Reg. No. N9378N Time (Lcl) - 1912 CST Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation APPROACH Finding(s) 1. ELECTRICAL SYSTEM - INOPERATIVE UNDETERMINED Occurrence #2 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH Finding(s) 3. FLUID, FUEL - STARVATION 4. FUEL TANK SELECTOR POSITION - IMPROPER USE OF - PILOT IN COMMAND Occurrence #3 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 5. LIGHT CONDITION - NIGHT 6. WEATHER CONDITION - LOW CEILING 7. WEATHER CONDITION - FOG

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ELECTRICAL POWER FOR AN UNDETERMINED REASON AND FUEL STARVATION FROM IMPROPER USE OF THE FUEL SELECTOR. FACTORS RELATED TO THE ACCIDENT WERE: NIGHT AND ADVERSE WEATHER CONDITIONS.

File No 164 1/19/89 MEDIO	CINE LAKE,MT A/C F	eg. No. N83596	T 	ime (Lc1) ·	- 1030 MS 	T
-Basic Information Type Operating Certificate-NONE (GENERA		t Damage		Inju		
Turno of Operation DEDCOMAL	SUBSTA			Serious O	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crei Pas:	-	0	0	1
Accident Occurred During -LANDING	NONE		. 0	O	O	•
-Aircraft Information						
Make/Model - PIPER PA-18-150	Eng Make/Model - LY			Installed/		
Landing Gear - SKI	Number Engines - 1			tall Warnir	ng System	- YES
Max Gross Wt - 1750	Engine Type - RE		RETOR			
No. of Seats - 2	Rated Power -	150 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING			OFF AI	RPORT/STRIE	•	
Method - N/A	PLENTYWOOD, MT		A	- • -		
Completeness - N/A	Destination		Airport D	ата		
Basic Weather - VMC	BAINEVILLE, MT		D	Talama	A1 / A	
Wind Dir/Speed- 220/015 KTS Visibility - 50.0 SM	ATC/Airspace			Ident - Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance			Status -		
Obstructions to Vision- NONE	Type Apch/Lndg		Kannay	514145	14/ /	
Precipitation - NONE	Type Apolly Elling	STRAIGHT IN				
Condition of Light - DAYLIGHT						
Pilot-In-Command	Age - 37	Medical Certifica			WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	ght Time (H			
COMMERCIAL	Biennial Flight Review Current - YES Months Since - 22	Total -	5000	Last 24	Hrs -	2
SE LAND	Months Since - 22	Make/Model-				
	Aircraft Type - C-172	Instrument-	46	Last 90	Days-	100
Instrument Rating(s) - AIRPLANE						
-narrative COMMERCIAL PLT AND A FRIEND LANDED IN A S	NOW COVEDED FIELD DUDING A	DEDCOMAL TOAMCDOD	TATION FLT	THE LEFT		
STRUCK COMPACTED SNOW DRIFTS AND THE LEFT					=	
W AND THE ACFT NOSED DOWN.	ANDE BROKE. WITH THE EET	JAI GOIL, THE LAND	JING GLAR D	OG TIVIO IIIL	-	
, ACT HOULD DOWN.						

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: SELECTION OF UNSUITABLE TERRAIN BY THE PILOT, RESULTING IN A COLLISION WITH SNOWDRIFTS DURING LANDING GROUND RUN.

-Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircra	ft Damage		Injur	ries	
		ANTIAL	Fatal			None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crew Pass		0	0	1
Accident Occurred During -TAXI	NOINE			. 0	O	U
-Aircraft Information						
Make/Model - PIPER PA-18-150		YCOMING 0-320-A2A		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750	Engine Type - R	I ECIPROCATING-CARBUR		Stall Warnir	ig System	- YES
No. of Seats - 2		150 HP				
-Environment/Operations Information						
Weather Data	Itinerary	_		Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Poin LAUREL,MT	τ	ON AI	RPURI		
Completeness - N/A	Destination	•	Airport	Data		
Basic Weather - VMC	SAME AS ACC/INC			FALLS INTER	RNATIONAL	
Wind Dir/Speed- 230/020 KTS	5255				- 21	
Visibility - 50.0 SM	ATC/Airspace			y Lth/Wid -		150
	TERED Type of Flight Plan			y Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runwa	y Status -	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- TRAFFIC PATTERN FULL STOP				
Precipitation - NONE Condition of Light - DAYLIGHT		FULL STUP				
-Personnel Information						
Pilot-In-Command	Age - 41	Medical Certifica	te - VALI	D MEDICAL-WA	AIVERS/LI	TIN
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (Hours)		
STUDENT		Total -	182	Last 24		3 22
	Months Since - N/A Aircraft Type - N/A	Make/Model- Instrument-	82	Last 30) Days-	69
	Airciait Type - N/A	Multi-Eng - U			raft - UI	
Instrument Rating(s) - NONE						
PLT REPORTED THAT AFTER LANDING ON RUNWAY IWAY. WHILE TAXIING DOWN THE RUNWAY, THE R		E LEFT WING STRUCK	THE GROUN	D. THE PLT L	_OST	

File No. - 168 3/25/89 GREAT FALLS,MT A/C Reg. No. N4273Z Time (Lcl) - 1201 MST

Occurrence #1

LOSS OF CONTROL - ON GROUND

Phase of Operation TAXI - FROM LANDING

Finding(s)

1. WEATHER CONDITION - GUSTS

- 2. WEATHER OBSERVATION DISREGARDED PILOT IN COMMAND
- 3. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 4. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND

Occurrence #2

NOSE OVER

Phase of Operation TAXI - FROM LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE FAILURE OF THE PILOT IN COMPENSATE ADEQUATELY FOR WIND CONDITIONS, AND LANDING DESPITE HAVING BEEN ALERTED TO WIND CONDITIONS.

File No 132 1/21/89 LAR	MORE, ND A/C F	Reg. No. N9439B	T 	ime (Lcl) -	0950 CS1	
Basic Information Type Operating Certificate-NONE (GENER	RAL AVIATION) Aircraf	^e t Damage		Injur	ies	
	SUBSTA	ANTIAL	Fatal	Serious	Minor	None
Type of Operation -INSTRUCTION	IAL Fire	Crew	0	0	0	2
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Accident Occurred During -LANDING			-			
Aircraft Information						
Make/Model - CESSNA 172RG	Eng Make/Model - Li			Installed/A	ctivated	- YES/YES
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines -			tall Warning	g System	- YES
Max Gross Wt - 2650		CIPROCATING-CARBUR	ETOR			
No. of Seats - 4	Rated Power -	180 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFI	NG Last Departure Point	t	ON AIR	PORT		
Method - N/A	GRAND FORKS,ND					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		LARIMO	RE		
Wind Dir/Speed- 180/010 KTS			Runway	Ident -	12	
Visibility - 15.0 SM	ATC/Airspace		Runway	Lth/Wid -	2800/	50
Lowest Sky/Clouds - 15000 FT SC	ATTERED Type of Flight Plan	- NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runway	Status -	ICE COVE	RED
Obstructions to Vision- NONE	Type Apch/Lndg		•			COMPACTED
Precipitation - NONE		TOUCH AND GO				
Condition of Light - DAYLIGHT						•
Personnel Information						
Pilot-In-Command	Age - 21	Medical Certifica			WAIVERS	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	ht Time (H	ours)		
COMMERCIAL, CFI	Current - YES	Total -	589	Last 24	Hrs -	1
SE LAND, ME LAND	Months Since - 13	Make/Model-	59	Last 30	Days-	3
	Aircraft Type - BE-76	Instrument-	61	Last 90	Days-	29
		Multi-Eng -	132			
Instrument Rating(s) - AIRPLANE						
Narrative						
E CFI SAID THE STUDENT PLT WAS AT THE CONE E WIND WAS FROM THE SOUTH AT 10 KTS. THE LY ABOUT 800 FT OF RWY WAS REMAINING. THE AINEE ADVANCED THE THROTTLE FOR TAKEOFF. A STOP. THE ACFT SLID TO THE LEFT ON THE PA	RAINEE LANDED LONG, & BY THE CFI THOUGHT THE TRAINEE WOUL OT THAT TIME, THE CFI TOOK TH	E TIME THE ACFT WAS LD STOP & TAXI BACK HE CONTROLS, CLOSED	RECONFIGU FOR TAKEO THE THROT	RED FOR TAK FF; HOWEVER TLE & ATTEM	EOFF, , THE PTED	
O STOP. THE ACFT SLID TO THE LEFT ON THE PA	ACKED SNOW & ICE COVERED RWY	. COLLIDED WITH A SI	NOW BANK B	ESINE IHE K	w r ox	

File No. - 132 1/21/89 LARIMORE, ND A/C Reg. No. N9439B Time (Lc1) - 0950 CST Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 1. TOUCH-AND-GO - INITIATED -2. PROPER TOUCHDOWN POINT - NOT ATTAINED - DUAL STUDENT 3. TOUCH-AND-GO - DELAYED - DUAL STUDENT 4. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) 5. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - SNOW COVERED 6. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - ICY 7. TERRAIN CONDITION - SNOWBANK Occurrence #2 NOSE OVER Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE SUPERVISION BY THE FLIGHT INSTRUCTOR. FACTORS RELATED TO THE ACCIDENT WERE: FAILURE OF THE STUDENT PILOT TO ATTAIN A PROPER TOUCHDOWN POINT, HIS DELAY IN CONFIGURING THE AIRCRAFT & EXECUTING THE GO-AROUND, ICY/SNOWY RUNWAY CONDITIONS, AND THE SNOWBANK.

Basic Information Type Operating Certificate-NONE (GENE	ERAL AVIATION)	Aircraft Damage			Inju	ries	
Type specialing occurry outs many (using		SUBSTANTIAL		Fatal	Serious		None
Type of Operation -INSTRUCTIO	DNAL	Fire	Crew	-	0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	0
Accident Occurred During -TAKEOFF							
Aircraft Information							
Make/Model - CESSNA 152		Model - LYCOMING O-:	235-L2C			Activated	
Landing Gear - TRICYCLE-FIXED		gines - 1	NO OADDUD		tali Warni	ng System	- YES
Max Gross Wt - 1670	Engine Typ		NG-CARBURI	ETUR			
No. of Seats - 2	Rated Powe	er - 110 HP					
Environment/Operations Information	* • • • · ·				.		
Weather Data	Itinerary	D = 1 = 1			Proximity		
Wx Briefing - FSS Method - ACFT RADIO	Last Depar			ON AIR	PURT		
Method - ACFT RADIO Completeness - FULL	SAME AS A			Airport D	2+2		
Basic Weather - VMC	LOCAL			GRAND			
Wind Dir/Speed- 260/008 KTS	LUCAL			Runway	_	- 26	
Visibility - 15.0 SM	ATC/Airspace					- 4300/	100
	CATTERED Type of F1					- CONCRETE	
Lowest Ceiling - NONE		earance - NONE		-		- DRY	
Obstructions to Vision- NONE	Type Apch/I		ND GO	,			
Precipitation - NONE	2						
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command				te - VALID		AIVERS/LIM	IIT
Certificate(s)/Rating(s)	Biennial Flight F			ht Time (H	•		
STUDENT	Current		1 -			4 Hrs -	2
	Months Since		/Model-	9	Last 3	O Days-	9
	Aircraft Type	e - N/A Insti	rument-	1	Last 9	O Days-	9
Instrument Rating(s) - NONE							
STUDENT PLT WAS PRACTICING TOUCH AND GO	LANDINGS ON HIS FIR	ST SUPERVISED SOLO	. AFTER LA	ANDING ON	RWY 26, A		
O X 100 FT CONCRETE RWY, THE PLT ADDED	POWER AND ALLOWED TH	HE ACFT TO TURN LEF	T OF THE	CENTERLINE	. RIGHŤ		
		CONTACTED A SNOW BA					

2/06/89 A/C Reg. No. N89038 Time (Lcl) - 1530 CST File No. - 17 GRAND FORKS, ND Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. TOUCH-AND-GO - ATTEMPTED - PILOT IN COMMAND 2. GROUND LOOP/SWERVE - NOT CORRECTED - PILOT IN COMMAND 3. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - GROUND RUN Finding(s) 4. TERRAIN CONDITION - SNOWBANK ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO CORRECT A GROUND LOOP SWERVE. A LACK OF TOTAL FLIGHT EXPERIENCE IS CONSIDERED TO BE A CONTRIBUTING FACTOR.

File No 18 2/06/89 MA	YVILLE,ND	A/C Reg. No. N9459D			Time (Lc1) - 1540 C:		
Basic Information							
Type Operating Certificate-NONE (GEN	ERAL AVIATION)	Aircraft Damage			Įnju		
		SUBSTANTIAL	_		Serious		None
Type of Operation -INSTRUCTI		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	. 0	0
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - CESSNA 172RG		el - LYCOMING 0-36			nstalled/		
Landing Gear - TRICYCLE-RETRACTABLE					all Warni	ng System	- YES
Max Gross Wt - 2658		- RECIPROCATING	-CARBURE	TOR			
No. of Seats - 4	Rated Power	- 180 HP					
Environment/Operations Information							
Weather Data	Itinerary			Airport P			
Wx Briefing - FSS	Last Departur	e Point		ON AIRP	ORT		
Method - TELEPHONE	GRAND FORKS	, ND,					
Completeness - FULL	Destination			Airport Da	ta		
Basic Weather - VMC	SAME AS ACC	/INC		MAYVILL	E		
Wind Dir/Speed- 260/010 KTS				Runway	Ident	- 18	
Visibility - 15.0 SM	ATC/Airspace		•	Runway	Lth/Wid	- 2110/	60
Lowest Sky/Clouds - 7000 FT S	CATTERED Type of Fligh	t Plan - NONE			Surface		
Lowest Ceiling - NONE	Type of Clear			Runway	Status	- ICE COV	ERED
Obstructions to Vision- NONE	Type Apch/Lnd	g - TOUCH AND	GO			SNOW -	DRY
Precipitation - NONE							
Condition of Light - DAYLIGHT	·						
Personnel Information							
Pilot-In-Command	Age - 20	Medical Ce	rtificat	e - VALID	MEDICAL-N	D WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Rev	iew	Fligh	t Time (Ho			
PRIVATE	Current -		_		Last 2		NK/NR
SE LAND	Months Since - Aircraft Type -	8 Make/M	lode1-	9	Last 3	O Days-	9
	Aircraft Type -	C-152 Instru	ment-	2	Last 9	O Days-	9
Instrument Rating(s) - NONE							
Narrative							
Narrative I LANDING ON A TOUCH-AND-GO THE PLT LAN	TED LEET OF CENTED THE	AND DEDADTED THE !	EET SIDE	OF THE DIE	ALLA V TAITO	٨	
K CANDING ON A TOOCHTANDIGO TOE PET LAN							

File No. - 18 2/06/89 MAYVILLE,ND A/C Reg. No. N9459D Time (Lc1) - 1540 CST

Occurrence #1
Phase of Operation LANDING - ROLL

Finding(s)

1. TERRAIN CONDITION - ICY
2. PROPER ALIGNMENT - NOT OBTAINED - PILOT IN COMMAND
3. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
4. WEATHER CONDITION - CROSSWIND

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

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN CONTROL OF THE AIRPLANE AFTER TOUCHDOWN ON AN ICY RUNWAY. CONTRIBUTING TO THE ACCIDENT WAS IMPROPER ALIGNMENT WITH THE RUNWAY FOR TOUCHDOWN.

----Probable Cause----

File No 92 4/18/89 KINDR	ED,ND A/C R	ID A/C Reg. No. N527Y			Time (Lc1) - 1930 CST				
Basic Information Type Operating Certificate-AGRICULTURAL		t Damage	•	Inju	ıries				
T	SUBSTA		Fatal	Serious		None			
Type of Operation -FERRY Flight Conducted Under -14 CFR 91	Fire	Cre		0	0	1 0			
Accident Occurred During -TAKEOFF	NONE	Pas	ss 0	O	O	O			
Aircraft Information									
Make/Model - GRUMMAN G-164	Eng Make/Model - P&				Activated				
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2300	Number Engines - 1 Engine Type - RE	CIPROCATING-CARBU		stall warn:	ng System	- YES			
No. of Seats - 1	Rated Power -								
Environment/Operations Information									
Weather Data Wx Briefing ~ NO RECORD OF BRIEFING	Itinerary			Proximity					
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Point SAME AS ACC/INC		ON AIF	RPURT					
Completeness - N/A	Destination		Airport D	la+a	-				
Basic Weather - VMC	LEONARD, ND		HAMRY						
Wind Dir/Speed- 040/003 KTS	220,7,110			Ident	- 33				
Visibility - 20.0 SM	ATC/Airspace		Runway	/ Lth/Wid	- 2700/	50			
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE	Runway	Surface	- ASPHALT				
Lowest Ceiling - NONE	Type of Clearance		Runway	Status	- DRY				
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE							
Precipitation - NONE									
Condition of Light - DUSK									
Personnel Information Pilot-In-Command	Age - 37 Biennial Flight Review	Medical Certific			AIVERS/LIM	IIT			
Certificate(s)/Rating(s)			ght Time (F	lours)		_			
COMMERCIAL	Current - YES	Total -	1302	Last 2	24 Hrs -	0			
SE LAND	Months Since - 1 Aircraft Type - C-172	Make/Model-	576	Last	30 Days-	0 1			
	Aircraft Type - C-172	Instrument-	14	Last	oo bays-	1			
Instrument Rating(s) - NONE									
 Narrative					· 				
PLT SAID HE LOST CONTROL ON THE TAKEOFF R									
IED RT AILERON BUT NOTHING HAPPENED. HE A	PPLIED RT RUDDER AND THE LT	BOOM STRUCK THE	GROUND. THE	ACFT VEE	RED				
ND DEPARTED THE RWY, STRIKING THE DITCH.									

4/18/89 File No. - 92 KINDRED, ND A/C Reg. No. N527Y Time (Lcl) - 1930 CST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND 2. WEATHER CONDITION - CROSSWIND 3. WEATHER CONDITION - GUSTS Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - GROUND RUN Finding(s) 4. TERRAIN CONDITION - DITCH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO COMPENSATE FOR THE WIND CONDITIONS DURING THE TAKEOFF. CONTRIBUTING TO THE ACCIDENT WERE THE CROSSWIND CONDITIONS.

Basic Information	SENEDAL AVIATION)	Ainouaft Damaga			Todayo	ioo	
Type Operating Certificate-NONE (C	SENERAL AVIATION)	Aircraft Damage SUBSTANTIAL		Fatal	Injur Serious	Minor	None
Type of Operation -BUSINES	SS	Fire	Crew	0	0	1	0
Flight Conducted Under -14 CFR		NONE	Pass	0	0	0	0
Accident Occurred During -DESCENT							
Aircraft Information							
Make/Model - CESSNA 172		ke/Model - LYCOMING 0	-360-A1A		Installed/A		
Landing Gear - TRICYCLE-FIXED		Engines - 1	TAIC CARRUPET		tall Warnin	g System	- AF2
Max Gross Wt - 2300 No. of Seats - 4	3	Type - RECIPROCAT Power - 180 HP	ING-CARBURE	UK .			
No. or seats - 4	Rateu i						
Environment/Operations Information				.	3 m = 11 t m d + 1		
Weather Data NO DECORD OF BRI	Itinerary				Proximity RPORT/STRIP		
Wx Briefing - NO RECORD OF BRI Method - N/A	LEFING LAST DE CHADRO	parture Point		OFF AII	RPURI/SIRIP		
Completeness - N/A	Destinat	•	۸	irport Da	ata		
Basic Weather - VMC	CASPEI		· ·	11 por t b.	214		
Wind Dir/Speed- 230/005 KTS	5.1.5. 2.	.,		Runway	Ident -	N/A	
Visibility - 1.000 SM	ATC/Airspa			Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - 15000 Fl	SCATTERED Type of	Flight Plan - NONE		Runway	Surface -	N/A	
Lowest Ceiling - NONE		Clearance - NONE		Runway	Status -	N/A	
Obstructions to Vision- NONE	, , ,	ch/Lndg - NONE					
Precipitation - NONE							
Condition of Light - NIGHT(DA	NRK)						
Personnel Information							
Pilot-In-Command			Certificate			IVERS/LIM	11 1
Certificate(s)/Rating(s) PRIVATE	Biennial Flig Current			Time (Ho 246		Hrs - UN	IK / NID
SE LAND	Months Si	- 1E3 OL	al - e/Model-	240	Last 24		
SE LAND	Aircraft	- YES Tot nce - 23 Mak Type - BE-23 Ins	e/Model- trument-	5	Last 90	Days on	10
	21101410	Mul	ti-Eng - UNK	/NR	Rotorcr	aft - UN	
Instrument Rating(s) - NONE			J				
Narrative		•					
TLY AFTER TAKEOFF ON A DARK NIGHT, 1							
. HE BECAME AWARE OF THE ENGINE'S RE							
HORIZON. HE STARTED TO SCAN THE INST	TRUMENT PANEL WHEN TH	HE AIRCRAFT STRUCK TH	E TERRAIN, L	EFT WING	FIRST. THE		

File No. -1/08/89 CHADRON, NE A/C Reg. No. N3799R Time (Lcl) - 1845 MST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. LIGHT CONDITION - DARK NIGHT 2. VFR PROCEDURES - NOT FOLLOWED - PILOT IN COMMAND 3. INATTENTIVE - PILOT IN COMMAND 4. ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PLT FAILED TO DEVOTE FULL TIME & ATTENTION TO FLYING THE ACFT, WITH A RESULTING LOSS OF CONTROL AND COLLISION WITH THE GROUND. CONTRIBUTING TO THE ACCIDENT WAS THE DARK NIGHT CONDITIONS.

File No 39 1/29/89 AINS	WORTH, NE	A/C Reg.	No. N4843G	Т	ime (Lcl) -	1345 CST	
Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft D SUBSTANTI	-	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire NONE	Crew Pass	-	0	0	1
Aircraft Information Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2550 No. of Seats - 4		gines - 1 pe - RECIP	ING 0-360-A4M ROCATING-CARBUR O HP	S	Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 260/015 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 10000 FT SCA Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depar ALLIANCE Destination SAME AS ATC/Airspace TTERED Type of F1 Type of C1 Type Apch/	,NE ACC/INC ight Plan - V earance - N		ON AIR Airport D AINSWO Runway Runway Runway	ata RTH	ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 36 Biennial Flight Current Months Since Aircraft Typ	Review - YES - 18	dical Certifica Flig Total - Make/Model- Instrument- Multi-Eng - U	tht Time (H 79 41 5	ours) Last 24 Last 30 Last 90	Hrs - Days- Days-	1 6 13
Instrument Rating(s) - NONE							
Narrative THE PVT PLT SAID HE WAS ATTEMPTING TO LAND O DISSATISFIED WITH HIS APPROACH, HE ELECTED T CLIMB AND ATTAINING ABOUT 150 FEET AGL, HE S IN AN EFFORT TO RESTART THE ENGINE WITHOUT S HAD LET HIS AIRSPEED DETERIORATE AND THE AIR INVESTIGATION AND ENGINE RUN UP FAILED TO RE DESTROYED BY THE IMPACT SO A REPLACEMENT CAR CONTAMINATION OR STARVATION/EXHAUSTION. METE PLT HAD BEEN WELL TRAINED IN THE USAGE OF CA	O GO-AROUND BEFORE AID THE ENGINE FAI UCCESS. HE ATTEMPT CRAFT MUSH-STALLED VEAL THE CAUSE OF BURETOR HAD TO BE OROLOGICAL CONDITI	TOUCHDOWN. A LED. HE WENT ED TO LAND ON COLLIDING WI ENGINE FAILUR FITTED FOR TH ONS WERE NOT	FTER ESTABLISHI THROUGH NORMAL A ROUGH FARM F TH THE TERRAIN. E. THE CARBURET E RUNUP. THERE CONDUCIVE FOR C	NG A POSIT EMERGENCY IELD, BUT POST ACCI OR AND HEA WAS NO EVI	IVE RATE OF PROCEDURES SAID HE FEL DENT T BOX WERE DENCE OF FU ICING. THE	T HE	

A/C Reg. No. N4843G Time (Lc1) - 1345 CST File No. - 39 1/29/89 AINSWORTH, NE Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. WEATHER CONDITION - CROSSWIND 2. COMPENSATION FOR WIND CONDITIONS - NOT CORRECTED - PILOT IN COMMAND 3. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND Occurrence #2 LOSS OF ENGINE POWER Phase of Operation GO-AROUND (VFR) Finding(s) 4. UNDETERMINED Occurrence #3 FORCED LANDING DESCENT - EMERGENCY Phase of Operation Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 5. TERRAIN CONDITION - ROUGH/UNEVEN ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE LOSS OF POWER FROM UNDETERMINED REASONS DURING AN ATTEMPTED GO-AROUND. CONTRIBUTING TO THE ACCIDENT WAS THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL OF THE AIRPLANE AND THE CROSSWIND CONDITIONS.

File No 95 3/02/89 NOR	FOLK, NE	A/C Reg. No. N	N69806	Time (Lc1) - 0030 CST			
Basic Information Type Operating Certificate-ON-DEMAND	AIR TAXI	Aircraft Damage			Injuri	ies	
Name of Carrier -MID PLAINS	AVIATION			Fatal	•		None
Name of Carrier -MID PLAINS Type of Operation -NON SCHED,	DOMESTIC, PASSENGER	Fire	Crew	0		0	1
Flight Conducted Under -14 CFR 135	· ·	NONE	Pass	0	0	0	1
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - CESSNA 310Q		odel - CONTINENTAL	_ 10-470-V0		installed/Ac		
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng			S-	tall Warning	g System	- YES
Max Gross Wt - 5300		e - RECIP-FUEL	INJECTED				
No. of Seats - 6	Rated Power	260∈HP					
Environment/Operations Information							
	eather Data Itimerary Airport Proximity						
Wx Briefing - NWS	Last Departu			ON AIR	URI		
Method - ACFT RADIO Completeness - FULL	DES MOINES Destination	5, I A		Ainmont Da	.+.		
Basic Weather - IMC	SAME AS AC	CC / TNC		Airport Da KARL Si			
Wind Dir/Speed- 060/007 KTS	SAME AS AC	CC/ TNC	•			01	
Visibility - 2.000 SM	ATC/Airspace				Lth/Wid -		150
Lowest Sky/Clouds - UNK/NR	Type of Flid	ght Plan - IFR			Surface -		150
Lowest Ceiling - 1300 FT OV	FRCAST Type of Clea	arance - IFR			Status -		OMPACTED
Obstructions to Vision- BLOWING SNO	W Type Apch/Lr	ndg - ILS-LOC	CALIZER		01-145	0.1011	O 7. O D
Precipitation - SNOW	., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9					
Condition of Light - NIGHT(DARK)							
Personnel Information							
Pilot-In-Command	Age - 35 Biennial Flight Re	Medical	Certificat	e - VALID	MEDICAL-WAI	VERS/LIM	IT
Certificate(s)/Rating(s)	Biennial Flight Re	eview	Fligh	t Time (Ho	ours)		
COMMERCIAL, CFI	Current	- YES Tota - 1 Make	al -	4745	Last 24	Hrs -	1
SE LAND, ME LAND	Months Since	- 1 Make	e/Model-	438	Last 30	Days-	19
·	Aircraft Type		trument-	342	Last 90	Days-	43
		Mult	ti-Eng	1597	Rotorcra	ift - UN	K/NR
Instrument Rating(s) - AIRPLANE							
RING AN ILS LOCALIZER APPROACH, THE ACFT	LANDED HARD CAUSING S	SUBSTANTIAL DAMAGE	TO THE WI	NG SPAR. 1	HE PLT SAID)	
HAD ACCUMULATED SUBSTANTIAL ICE ON THE A							
	ND REDUCED POWER. TH	HE ACET PITCHED DO	OWN SUDDENL	Y, THEN PO	WER AND BAC	:K	
ISSED THE RUNWAY THRESHOLD AT 100 KNOTS A							
ISSED THE RUNWAY THRESHOLD AT 100 KNOTS A ESSURE WERE APPLIED TO CUSHION THE LDG. T			D ON THE R	UNWAY. IT	WAS THEN		

File No. - 95 3/02/89 NORFOLK, NE A/C Reg. No. N69806 Time (Lcl) - 0030 CST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING Finding(s) 1. WEATHER CONDITION - ICING CONDITIONS 2. WEATHER CONDITION - SNOW 3. AIRSPEED - INADEQUATE - PILOT IN COMMAND Occurrence #2 HARD LANDING Phase of Operation LANDING Finding(s) 4. WING - ICE 5. FLARE - INADEQUATE - PILOT IN COMMAND ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN ADEQUATE AIRSPEED DURING THE LANDING WHICH RESULTED IN AN INADEQUATE FLARE. CONTRIBUTING TO THE ACCIDENT WERE THE ICING CONDITIONS AND ICE ACCUMULATION OF THE WINGS OF THE AIRPLANE.

-Basic Information Type Operating Certificate-NONE (GENER)								
Type uperating Certificate-NUNE (GENER)		A 1						
	AL AVIATION)	Aircraft			E - 1 - 1	Injur		
Type of Operation -PERSONAL		SUBSTANT	IAL	0	Fatal			None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91		Fire NONE		Crew Pass	0	0	0	1 0
Accident Occurred During -TAKEOFF		NONE		Pa55	O	U	O	
-Aircraft Information							· ·	
Make/Model - JENNINGS PIETENPOL AIR		Model - FORD				Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED						tall Warnir	ng System	- NO
Max Gross Wt - 1350	Engine Typ		PROCATING-C	ARBURE	TOR			
No. of Seats - 2	Rated Powe	er - 	85 HP					
-Environment/Operations Information								
Weather Data	Itinerary					Proximity		
Wx Briefing - NO RECORD OF BRIEFING	•				ON AIR	PORT		
Method - N/A	LINCOLN,N	1E						
Completeness - N/A	Destination			,	Airport D			
Basic Weather - VMC	LOCAL				LINCOL			
Wind Dir/Speed- 040/008 KTS	.== (35	
Visibility - 3.000 SM	ATC/Airspace					Lth/Wid -		100
Lowest Sky/Clouds - 25000 FT THIN						Surface -		
Lowest Ceiling - NONE	Type of Cle				Runway	Status -	DRY	
Obstructions to Vision- HAZE	Type Apch/L	.ndg -	NONE					
Precipitation - NONE								
Condition of Light - DAYLIGHT								
-Personnel Information								
Pilot-In-Command	Age - 56		ledical Cert				WAIVERS,	LIMIT
Certificate(s)/Rating(s)	Biennial Flight F				t Time (H			
PRIVATE		- YES				Last 24		0
SE LAND	Months Since				0	Last 30	Days-	6
	Aircraft Type	e - UNK/NR	Instrume			Last 90		14
			Multi-En	g -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE								
-Narrative			. 				~ ~	·
PVT PLT SAID THAT DURING THE TAKEOFF ROLIBLE TO DIRECTIONALLY CONTROL THE ACFT, AND PRICE TO REVEALED THE FRONT SEAT CUSHION FOR CAUSING A RESTRICTION OF THE FRONT PASS	O IT VEERED OFF THE N, OF THE OPEN COCK	RUNWAY AND PIT TANDEM	ROLLED OVE SEATED ACFT	R. POS [*]	T ACCIDEN FALLEN TO	T . THE COCKPI		
INCONVENIENT TO VISUALLY INSPECT IT DURING							-	

File No 184 3/11/89 LINCOLN.NE	A/C Reg. No. N81GJ	Time (Lc1) - 1045 CST	
Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN			
Finding(s) 1. LANDING GEAR, NORMAL BRAKE SYSTEM - MOVEMENT RESTRICTED 2. CONTROL INTERFERENCE - NOT UNDERSTOOD - PILOT IN COMMAND 3. FUSELAGE, SEAT - NOT SECURED 4. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND			
Occurrence #2 NOSE OVER Phase of Operation TAKEOFF - GROUND RUN			
Finding(s) 5. TERRAIN CONDITION - SOFT	<u> </u>		
Probable Cause			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT IN COMMAND TO ADEQUATELY PREFLIGHT THE AIRCRAFT RESULTING IN A FRONT COCKPIT SEAT CUSHION INTERFERING WITH THE RUDDER PEDALS AND BRAKES.

	Mino 0 0 tivat)	
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)/ 150)
- (GRASS	/TURF	
- 1	DRY		
WAI	VERS/	LIMIT	
			0
30 1	Days-		0
			6
cra	ft -		0
	24 30 90	24 Hrs - 30 Days- 90 Days-	-WAIVERS/LIMIT 24 Hrs - 30 Days- 90 Days- craft -

File No. - 187 3/26/89 PAPILLION, NE A/C Reg. No. N3832J Time (Lc1) - 1230 CST LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Occurrence #1 Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. FUEL SYSTEM, SCREEN - BLOCKED (PARTIAL) 2. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT - INTENTIONAL - PILOT IN COMMAND 3. FLUID, FUEL - STARVATION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE CONTAMINATION OF THE FUEL SCREEN BY FOREIGN MATTER AND OPERATION OF THE AIRCRAFT WITH KNOWN DEFICIENCIES.

				ime (Lc1) -		
Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION) Aircraft SUBSTAN		Fatal	Injur Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Fire NONE	Crew Pass	0	0	0	1 0
Aircraft Information Make/Model - BELLANCA 7GCBC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1650 No. of Seats - 2	Eng Make/Model - LYG Number Engines - 1 Engine Type - REG	COMING 0-320-A2B	ELT S ETOR	Installed/A	activated ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 330/008 KTS Visibility - 10.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point LAKEWOOD,NJ Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	Airport ON AIR Airport D LAKEWO Runway Runway Runway	Proximity PORT ata OD Ident Lth/Wid Surface	· 06 · 2457/	50
	Age - 62 Biennial Flight Review Current - YES Months Since - 5 Aircraft Type - PA-28	Total -	ht Time (H 399 75	lours)	· Hrs - UN Days-	
Instrument Rating(s) - NONE						

File No. - 77 3/16/89 LAKEWOOD,NJ A/C Reg. No. N41692 Time (Lcl) - 1500 EST

Occurrence #1 LOSS OF CONTROL - ON GROUND
Phase of Operation LANDING - ROLL

Finding(s)

1. WEATHER CONDITION - CROSSWIND
2. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND

Occurrence #2 NOSE OVER
Phase of Operation LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO ADEQUATELY COMPENSATE FOR THE CROSSWIND CONDITIONS. CONTRIBUTING TO THE ACCIDENT WERE THE CROSSWIND CONDITIONS.

L AVIATION) Aircraft DESTROY Fire NONE			•	uries Minor O 2	None O O
Fire NONE	Crew	0	1	0	0
NONE		-		_	
		Ü	U		
				-	· ·
Eng Make/Model - LYC	OMING 0-360-A4M				d - YES-UNK/
Number Engines - 1		S.	tall Warni	ing Syste	m - YES
Engine Type - REC	IPROCATING-CARBUR	ETOR			
Rated Power -	180 HP				
		OFF AI	RPORT/STR	(P	
	-				
		Airport Da	ata		
PRINCETON, NJ		_			
		•	•	•	
		•		* .	
		Runway	Status	- N/A	
Type Apch/Lndg -	FORCED LANDING				
					- 4
				10 MAIVER	S/LIMIT
Biennial Flight Review	Fligh			_	
Current - YES	Total -	184			
Months Since - 3	Make/Model-	93	Last 3	30 Days-	6
Aircraft Type - PA-28	Instrument-	52	Last 9	O Days-	9 .
				 \Т	
	Engine Type - REC Rated Power - Itinerary Last Departure Point RICHMOND HTS,OH Destination PRINCETON,NU ATC/Airspace Type of Flight Plan - Type of Clearance - Type Apch/Lndg - Age - 25 Biennial Flight Review Current - YES Months Since - 3 Aircraft Type - PA-28 TITUDE WHEN HE REPORTED TO A ORT, BUT CHOSE TO CONTINUE T NEAREST AIRPORT BECAUSE FUEL	Engine Type - RECIPROCATING-CARBUR Rated Power - 180 HP Itinerary Last Departure Point RICHMOND HTS,OH Destination PRINCETON,NJ ATC/Airspace Type of Flight Plan - IFR Type of Clearance - IFR Type Apch/Lndg - FORCED LANDING Age - 25 Medical Certificate Flight Review Current - YES Total - Months Since - 3 Make/Model - Aircraft Type - PA-28 Instrument- TITUDE WHEN HE REPORTED TO ATC THAT HE WAS RUITORT, BUT CHOSE TO CONTINUE TO HIS DESTINATION NEAREST AIRPORT BECAUSE FUEL WAS GETTING CRIT	Engine Type - RECIPROCATING-CARBURETOR Rated Power - 180 HP Itinerary	Engine Type - RECIPROCATING-CARBURETOR Rated Power - 180 HP Itinerary	Engine Type - RECIPROCATING-CARBURETOR Rated Power - 180 HP Itinerary

File No 1	98 3/24/89	PITTSTOWN,NJ	A/C Reg. No. N4385L	Time (Lc1) - 1315 EST
Occurrence #1 Phase of Operation		POWER(TOTAL) - NON-MEC	CHANICAL	
Finding(s) 1. IN-FLIGHT PLANN 2. FLUID,FUEL - EX	HAUSTION	PROPER - PILOT IN COMM		
Occurrence #2 Phase of Operation		NCY		
Occurrence #3 Phase of Operation		SION WITH OBJECT		
Finding(s) 3. OBJECT - TREE(S 4. TERRAIN CONDITION	•			
Probable Cause				······································

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was IMPROPER INFLIGHT PLANNING WHICH LED TO ENGINE FAILURE DUE TO FUEL EXHAUSTION.

		A/C Reg. No. N					
Type Operating Certificate-NONE	(GENERAL AVIATION)				Injur		
Type of Openation -INST	DUCTIONAL	SUBSTANTIAL Fire	Crew	Fatal		Minor O	None
Type of Operation -INST Flight Conducted Under -14 C	FD 91	NONE	Pass	0 0	0	0	1 0
Accident Occurred During -LAND	ING	HONE	, 455	Ü	Ü	Ü	Ü
-Aircraft Information							
Make/Model - BEECH 19		e/Model - LYCOMING O-					
Landing Gear - TRICYCLE-FIXED	Number E	ingines - 1	OADDUBET	St	all Warnir	ng System	- YES
Max Gross Wt - 2000 No. of Seats - 4		ype - RECIPROCATIM ower - 150 HP	NG-CARBURE	UR			
	 n						
Weather Data	Itinerary			Airport P	roximity		
Wx Briefing - FSS	Last Depa	rture Point		ON AIRP	ORT		
Method - ACFT RADIO	SAME AS						
Completeness - WEATHER NOT P		on	<i>A</i>	Airport Da			
Basic Weather - VMC	LOCAL				E COUNTY N		
Wind Dir/Speed- 240/009 KTS Visibility - 40.0 SM	ATC/Airspac	20			Ident - Lth/Wid -	20	150
Lowest Sky/Clouds - 7000				Punway	Surface -	. 0323/ . ASDHALT	150
Lowest Ceiling - 20000					Status -		
Obstructions to Vision- NONE		/Lndg - TRAFFIC	PATTERN		0 14 14	2	
Precipitation - NONE	. 7	,					
Condition of Light - DAYLI	GHT						
-Personnel Information Pilot-In-Command	Age - 49	Modical	Certificate	S - VALTO	MEDICAL -WA	TVEDC /LIM	
Certificate(s)/Rating(s)	Biennial Flight		Flight			(IVERS/LIM.	L 1
STUDENT	Current	- N/A Tota				Hrs -	1
G.1052.11.	Months Sind	e - N/A Make	/Model-	16	Last 30	Davs- UN	· K/NR
	Aircraft Ty	- N/A Tota ce - N/A Make, ype - N/A Instr	/Model- rument-	1	Last 90) Days- UN	C/NR
Instrument Rating(s) - NON	E						
-Narrative	·						
STUDENT PILOT WAS FLYING HER FIRS							
NESSES SAID SHE FLARED HIGH & THE . N THE ACFT SKIDDED TO A STOP ON IT		TOUCHDOWN. UN THE TH	TKD ROONCE,	THE NUSE	GEAR COLL	APSEU,	
THE ACT I SKIDDED TO A STOP ON IT	J NOJED.						

A/C Reg. No. N9739L Time (Lcl) - 1316 MST File No. - 146 1/02/89 SANTA FE,NM Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. FLARE - IMPROPER - PILOT IN COMMAND 2. RECOVERY FROM BOUNCED LANDING - IMPROPER - PILOT IN COMMAND Occurrence #2 NOSE GEAR COLLAPSED Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 3. LANDING GEAR, NOSE GEAR - OVERLOAD ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER FLARE AND IMPROPER RECOVERY FROM A BOUNCED LANDING, WHICH RESULTED IN A HARD LANDING.

File No 143 1/05/89 QUEMAD	DO,NM A/C R	eg. No. N312BH	7	ime (Lcl) -	1430 MS	T
Basic Information Type Operating Certificate-NONE (GENERAL	_ AVIATION) Aircraf SUBSTAI	Damage TIAL	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0 '	0
Aircraft Information						
	(YBOLT Eng Make/Model - COI Number Engines - 1 Engine Type - REC Rated Power -			Installed/Aditall Warning		
Environment/Operations Information						
Weather Data Wx Briefing - FSS Method - TELEPHONE	Itinerary Last Departure Point GRANTS,NM		Airport ON AIF	Proximity STRIP		
Completeness - PARTIAL,LMTD BY PILOT Basic Weather - VMC Wind Dir/Speed- 260/015 KTS Visibility - 25.0 SM				00	23	25
	TERED Type of Flight Plan Type of Clearance		Runwa) Runwa)	/ Surface - / Status -	DIRT	
Personnel Information						
Pilot-In-Command Certificate(s)/Rating(s)	Age - 25 Biennial Flight Review	Medical Certificat	e - EXPIA t Time (H			
PRIVATE	Current - YES	Total -	400	Last 24	Hre -	3
SE LAND	Months Since - 18	Make/Model-	105	Last 30		13
SE EAND	Aircraft Type - BE-33	Instrument-	. 5	Last 90		18
Instrument Rating(s) - NONE						
Narrative E PRIVATE PLT WAS ON A X-COUNTRY FLIGHT IN H TENDED ROUTE TO AVOID WEATHER. HE SAID HE NO HE ELECTED TO LAND NEAR QUEMADO, NEW MEXICO AR ENTERED SOFT DIRT AND HE LOST DIRECTIONAL LOT'S LAST FAA MED EXAM IN ABOUT JULY 1986.	HIS HOMEBUILT ACFT. HE REPO DTICED THE HIGHER ELEVATION: D, ON A DIRT STRIP. THE PLT	TED THAT HE DIVERT ALONG HIS ROUTE W SAID THAT DURING T	ERE HAZY HE LANDIN	AND OBSCURED IG, THE MAIN	ο,	/

File No. - 143 1/05/89 QUEMADO, NM A/C Reg. No. N312BH Time (Lc1) - 1430 MST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE - NORMAL Finding(s) 1. TERRAIN CONDITION - HIGH TERRAIN 2. WEATHER CONDITION - LOW CEILING 3. WEATHER CONDITION - HAZE/SMOKE 4. FLIGHT TO ALTERNATE DESTINATION 5. PRECAUTIONARY LANDING Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 6. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - SOFT 7. UNSUITABLE TERRAIN' - SELECTED - PILOT IN COMMAND 8. DIRECTIONAL CONTROL - NOT MAINTAINED -9. GROUND LOOP/SWERVE - UNCONTROLLED -Occurrence #3 NOSE OVER Phase of Operation LANDING ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO SELECT A SUITABLE LANDING STRIP/AREA. FACTORS RELATED TO THE ACCIDENT WERE:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO SELECT A SUITABLE LANDING STRIP/AREA. FACTORS RELATED TO THE ACCIDENT WERE: HIGH TERRAIN AND LOW CEILING ALONG THE ROUTE OF FLIGHT, HAZE, AND THE SOFT CONDITION OF THE SELECTED LANDING STRIP.

Basic Information Type Operating Gertificate-NONE (GENERA)	L AVIATION) Aircraf	t Damage		Injur	ries	
	SUBSTA	NTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass		0	0	. 0
Aircraft Information		•				
Make/Model - CESSNA 140	Eng Make/Model - CC			Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1500	Number Engines - 1 Engine Type - RE	I ECIPROCATING-CARBUR		Stall Warnir	ng System	- NO
No. of Seats - 2		85 HP				
Environment/Operations Information	T. 1		A *	D		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Point	; =	Airport ON AI	Proximity		
Method - N/A	SAME AS ACC/INC	-	UN AIR	RPURT		
Completeness - N/A	Destination		Airport [Data		
Basic Weather - VMC	LOCAL		FARMIN			
Wind Dir/Speed- CALM			Runway	y Ident -	- 25	
Visibility - 100.0 SM	ATC/Airspace			y Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			y Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runway	y Status -	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- TRAFFIC PATTERN FULL STOP				
Precipitation - NONE Condition of Light - DAYLIGHT		FULL STUP				
Personnel Information						
Pilot-In-Command	Age - 49	Medical Certifica	te - VALI	MEDICAL-WA	IVERS/LI	MIT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (H			
PRIVATE	Current - YES		850	Last 24	4 Hrs - U	•
SE LAND	Months Since - 3				Days- U	
	Aircraft Type - C-170	Instrument- U Multi-Eng - U	NK/NK NK/ND	Potonor	raft - U	NK/NK NK/ND
		Marti Ling 0	IAIS VIAIS	ROTOLOI	<u>.</u> ,	1413/ 1413
Instrument Rating(s) - NONE						
Narrative						
PRIVATE PLT WAS PRACTICING LANDINGS ON RW	Y 25. DURING A LANDING, HE	APPLIED LEFT BRAKI	NG TO TUR	N OFF ONTO A	4	
WAY. THE PLT SAID THAT HE ADDED RIGHT BRA	KING TO CORRECT AND THE ACE	T GROUND LOOPED TO	THE RIGHT	T. AS THE AC	CFT	

File No. - 163 1/18/89 FARMINGTON, NM A/C Reg. No. N2652N Time (Lc1) - 1500 MST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. BRAKES(NORMAL) - IMPROPER USE OF - PILOT IN COMMAND 2. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND Occurrence #2 MAIN GEAR COLLAPSED Phase of Operation LANDING - ROLL Finding(s) 3. LANDING GEAR, MAIN GEAR - OVERLOAD ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was IMPROPER USE OF BRAKES WHICH RESULTED IN AN INADVERTENT GROUND SWERVE.

File No 158 1/23/89 LAS	CRUCES,NM A/C R	eg. No. N3070M	Т	ime (Lcl)	- 1705 M S	Т
Basic Information Type Operating Certificate-NONE (GENE Type of Operation -INSTRUCTIO Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTA	t Damage NTIAL Crew Pass	Fatal O O	Inju Serious O O	ries Minor O O	None 2 1
Aircraft Information Make/Model - PIPER PA-34-200T Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 4570 No. of Seats - 4	Eng Make/Model - CO Number Engines - 2 Engine Type - RE Rated Power -		· S	Installed/ tall Warni	ng System	
Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - WEATHER NOT PERTINE Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC ATC/Airspace Type of Flight Plan Type of Clearance	- NONE	OFF AID Airport Do LAS CRI Runway Runway Runway Runway	UCES INTL	- 26 - 6073/ - ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 22 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - UNK/NR	Fligh Total - Make/Model-	nt Time (H	ours) Last 2	4 Hrs - O Days-	/LIMIT 3 129 408
Instrument Rating(s) - AIRPLANE						
Narrative HE INSTRUCTOR PLT (CFI) HAD SIMULATED A LO ULLED THE CIRCUIT BREAKER (CB) FOR THE NOR YS, BUT THE LEFT GEAR DID NOT LOCK DOWN. T DT SHOW DOWN & LOCKED. THE CFI THEN ORDERE HROTTLES WERE ADVANCED, THE CFI NOTED A LA ULL PWR TO THE RGT ENG, WHICH HE PERCEIVED HE ACFT MAINTAINED LEVEL FLT, BUT WOULD NO N ROUGH DESERT TERRAIN. NO REASON FOR THE	SS OF PWR IN THE RGT ENG & TH MAL GEAR EXTENTION SYS. THE S HE CFI PUT THE CB BACK IN & R D A GO-AROUND. THE GO-AROUND CK OF PWR IN THE RGT ENG & TO WAS PRODUCING SOME PWR. THE T CLIMB. SUBSEQUENTLY, IT BEG	E STUDENT WAS MAKII TUDENT TRIED TO EX' ECYCLED THE GEAR, I WAS INITIATED AT AI OK CONTROL OF THE A PROP WASN'T FEATHEI AN TO DESCEND & THI	NG AN APCH TEND THE GI BUT THE LEI BOUT 300 F ACFT. HE TI RED. IN THA	. THE CFI EAR WITH T FT GEAR ST T AGL. WHE RIED TO RE AT CONFIGU A FORCED	THEN HE ALTN ILL DID N THE STORE RATION,	

A/C Reg. No. N3070M Time (Lc1) - 1705 MST File No. - 158 1/23/89 LAS CRUCES,NM Occurrence #1 GEAR NOT EXTENDED Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. EMERGENCY PROCEDURE - SIMULATED - PILOT IN COMMAND(CFI) 2. LANDING GEAR, GEAR LOCKING MECHANISM - NOT ENGAGED 3. GO-AROUND - INITIATED -Occurrence #2 LOSS OF ENGINE POWER Phase of Operation GO-AROUND (VFR) Finding(s) 4. 1 ENGINE -UNDETERMINED Occurrence #3 FORCED LANDING Phase of Operation DESCENT - UNCONTROLLED Finding(s) 6. PROPELLER FEATHERING - NOT PERFORMED - PILOT IN COMMAND(CFI) Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 7. TERRAIN CONDITION - ROUGH/UNEVEN 8. WHEELS UP LANDING ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE LOSS OF RIGHT ENGINE POWER FOR UNDETERMINED REASON(S), AND THE FAILURE OF THE INSTRUCTOR PILOT TO FEATHER THE RIGHT ENGINE. FACTORS RELATED TO THE ACCIDENT WERE: FAILURE OF THE LEFT MAIN GEAR LOCKING MECHANISM TO ENGAGE AND THE UNPREPARED (ROUGH/UNEVEN) TERRAIN.

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File No. - 156
                            4/05/89
                                       LOS LUNAS.NM
                                                                  A/C Reg. No. N1672M
                                                                                                 Time (Lcl) - 1215 MDT
----Basic Information----
      Type Operating Certificate-NONE (GENERAL AVIATION)
                                                                Aircraft Damage
                                                                                                        Injuries
                                                                                                                Minor
                                                                 SUBSTANTIAL
                                                                                            Fatal
                                                                                                     Serious
                                                                                                                          None
     Type of Operation
                                -BUSINESS
                                                                Fire
                                                                                              0
                                                                                                        Ω
                                                                                                                           0
                                                                                     Crew
                                                                                                                   1
      Flight Conducted Under
                               -14 CFR 91
                                                                                               0
                                                                                                         0
                                                                                                                   0
                                                                                                                            0
                                                                 NONE
                                                                                     Pass
      Accident Occurred During -LANDING
----Aircraft Information----
      Make/Model
                 - CESSNA 182P
                                                    Eng Make/Model - CONTINENTAL 0-470-S
                                                                                               ELT Installed/Activated - YES/YES
     Landing Gear - TRICYCLE-FIXED
                                                    Number Engines - 1
                                                                                                  Stall Warning System - YES
      Max Gross Wt - 2950
                                                    Engine Type

    RECIPROCATING-CARBURETOR

     No. of Seats -
                                                    Rated Power
                                                                        230 HP
    Environment/Operations Information---
    Weather Data
                                                 Itinerary
                                                                                           Airport Proximity
      Wx Briefing
                                                   Last Departure Point
                     - NO RECORD OF BRIEFING
                                                                                             OFF AIRPORT/STRIP
        Method
                                                     ALBUQUERQUE, NM
                     - N/A
        Completeness - N/A
                                                  Destination
                                                                                          Airport Data
      Basic Weather - VMC
                                                     BELEN, NM
        Wind Dir/Speed- 340/008 KTS
                                                                                             Runway Ident
       Visibility - 80.0 SM
                                                 ATC/Airspace
                                                                                             Runway Lth/Wid - N/A
       Lowest Sky/Clouds -
                               CLEAR
                                                  Type of Flight Plan - NONE
                                                                                             Runway Surface - N/A
       Lowest Ceiling
                                                   Type of Clearance - NONE
                                                                                             Runway Status - N/A
                               NONE
       Obstructions to Vision- NONE
                                                   Type Apch/Lndg
                                                                     - FORCED LANDING
        Precipitation

    NONE

        Condition of Light - DAYLIGHT
----Personnel Information----
     Pilot-In-Command
                                             Age -
                                                       54
                                                                        Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT
      Certificate(s)/Rating(s)
                                                                                     Flight Time (Hours)
                                             Biennial Flight Review
         COMMERCIAL
                                                 Current - YES
                                                                            Total
                                                                                          3930
                                                                                                      Last 24 Hrs -
                                                                                                                         Ο
                                                                                                      Last 30 Days-
                                                 Months Since - 10
                                                                                                                         21
         SE LAND ME LAND
                                                                            Make/Model-
                                                                                          102
                                                                                                      Last 90 Days-
                                                 Aircraft Type - PA-34
                                                                            Instrument-
                                                                                          892
                                                                            Multi-Eng -
                                                                                         1152
         Instrument Rating(s) - AIRPLANE
----Narrative----
BEFORE THE FLT, THE PLT PREFLIGHTED THE ACFT & DRAINED THE WING SUMPS. HE DID NOT NOTICE ANY WATER OR OTHER
CONTAMINANTS IN THE FUEL. HE DID NOT VISUALLY CHECK THE TANK CAPS OR FUEL LEVEL, BUT RELIED ON THE FUEL GAGES,
WHICH HE BELIEVED WERE ACCURATE. HE KNEW THE LEFT TANK WAS NEAR EMPTY & ESTIMATED THERE WAS 35 GAL REMAINING IN
THE RGT TANK. ABOUT 10 MIN AFTER TAKING OFF ON A FLT FROM ALBUQUERQUE TO BELEN. NM. THE ENG LOST POWER & WOULD
NOT RESTART. THE PLT RPRTD THAT DURING AN EMERGENCY LANDING, HE BEGAN HIS FLARE TOO LOW, THE ACFT TOUCHED DOWN
"TOO FLAT" & THEN THE NOSE WHEEL HIT A MOUND & THE ACFT NOSED OVER. NO FUEL WAS FOUND IN EITHER TANK. THOUGH FUEL
WAS FOUND IN THE FUEL LINES & GASCOLATOR. THE ENGINE WAS OPERATIONALLY CHECKED & IT RAN SMOOTHLY TO 2100 RPM.
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4/05/89 A/C Reg. No. N1672M Time (Lcl) - 1215 MDT File No. - 156 LOS LUNAS, NM Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND 2. ENGINE INSTRUMENTS, FUEL QUANTITY GAGE - FALSE INDICATION 3. FLUID, FUEL - EXHAUSTION 4. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE OVER Phase of Operation LANDING Finding(s) 5. FLARE - IMPROPER - PILOT IN COMMAND 6. TERRAIN CONDITION - ROUGH/UNEVEN

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT BY THE PILOT, WHICH RESULTED IN FUEL EXAUSTION FROM AN INADEQUATE SUPPLY OF FUEL. FACTORS RELATED TO THE ACCIDENT WERE: FALSE FUEL QUANTITY INDICATION, HARD LANDING BY THE PILOT, AND UNEVEN TERRAIN CONDITIONS.

----Probable Cause----

-Basic Information Type Operating Certificate-NONE (GENER, Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTA Fire NONE 	t Damage NTIAL Crew Pass		Inju Serious O O	uries Minor O O	None 1 0
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTA Fire NONE 	NTIAL Crew	0	Serious O	Minor O	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE Eng Make/Model - CO					
Accident Occurred During -LANDING	Eng Make/Model - CO	Pass	0	0	0	0
-Aircraft Information Make/Model - CESSNA 210 Landing Gear - TRICYCLE-RETRACTABLE						
Make/Model - CESSNA 210 Landing Gear - TRICYCLE-RETRACTABLE						
Landing Gear - TRICYCLE-RETRACTABLE						
Max Gross Wt - 2900	Number Engines - 1		S	tall Warn	ing System	- YES
	Engine Type - RE					
No. of Seats - 4	Rated Power -	260 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS	Last Departure Point		ON AIR	PORT		
Method - IN PERSON	SAN JOSE,CA					
Completeness - WEATHER NOT PERTINEN		Airport Da				
Basic Weather - VMC	SAME AS ACC/INC		CARSON		0.77	
Wind Dir/Speed- 360/009 KTS	4TO / 4 to 2 to 2 to			Ident		75
Visibility - 40.0 SM	ATC/Airspace	NONE			- 5900/ - ASPHALT	75
Lowest Sky/Clouds - 3200 FT SCA- Lowest Ceiling - NONE	Type of Clearance	- NUNE		Status		
Obstructions to Vision- NONE	Type Of Creamance Type Apch/Lndg		Runway	status	- DRT	
Precipitation - NONE	Type Apcil/Ling	FORCED LANDING				
Condition of Light - DAYLIGHT		FORCED LANDING				
-Personnel Information Pilot-In-Command	Age - 57	Medical Certifica	+o - VALTD	MEDICAL -V	JATVEDS /LTM	тт.
Certificate(s)/Rating(s)	Biennial Flight Review		nt Time (H		MAIVERS/ LIN	11
PRIVATE	Current - YES		•	,	24 Hrs -	1
SE LAND	Months Since - 11	Make/Model-			30 Days-	2
	Months Since - 11 Aircraft Type - C-210	Instrument-	38		00 Days-	14
					,.	
Instrument Rating(s) - NONE						
-Nana+iva	~					
-Narrative PLT REPORTED THAT THE ENG FAILED TO RESPO	OND WHEN DOWED WAS ADDUTED T	O MAKE A CO-ADOUND	THE DIT!	AADE A FOI	OCED.	
PLI REPURTED THAT THE ENG FAILED TO RESPO DING ON UNPREPARED TERRAIN BEYOND THE RUN						
DING ON ONPREPARED LEKKAIN BETOND THE KONT	WAT. INSPECTION REVEALED IMA	I THE IMPOSILE CAR	E HAD SEP	AKATED DUE	L IU WEAR.	

File No	30 1/14/89	CARSON CITY, NV	A/C Reg. No. N7343E	Time (Lcl) - 1335 PST
Phase of Operation	GO-AROUND (VFR)	OWER(PARTIAL) - MECH FA	ILURE/MALF	
1. THROTTLE/POWER 2. THROTTLE/POWER	LEVER, CABLE - SEPA LEVER, CABLE - WORN			
Occurrence #2 Phase of Operation		NCY		
Occurrence #3 Phase of Operation		TOUCHDOWN		
Finding(s) 3. TERRAIN CONDITI	ON - ROUGH/UNEVEN			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
SEPARATION OF THE THROTTLE CABLE DUE TO WEAR AS POWER WAS APPLIED FOR A LANDING GO-AROUND. CONTRIBUTING TO THE ACCIDENT
WAS ROUGH TERRAIN AT THE TOUCHDOWN POINT OF THE FORCED LANDING.

1	Crew Pass L A-65-8F ING-CARBURETO	Fatal 1 1 ELT I St OR	O nstalled/Ac all Warning	Minor 0 0	0 0 	
CONTINENTAL 1 RECIPROCATIN 65 HP	Crew Pass L A-65-8F ING-CARBURETO	1 1 ELT I St OR	0 0 nstalled/Ac all Warning	0 0 	O - YES/N	
CONTINENTAL 1 RECIPROCATIN 65 HP	Pass L A-65-8F ING-CARBURETO	ELT I St OR	O nstalled/Ac all Warning	0 tivated	O - YES/N	
CONTINENTAL 1 RECIPROCATIN 65 HP	L A-65-8F ING-CARBURETO	ELT I St DR	nstalled/Acall Warning	tivated	- YES/N	
1 RECIPROCATIN 65 HP	ING-CARBURETO	St OR 	all Warning			
1 RECIPROCATIN 65 HP	ING-CARBURETO	St OR 	all Warning			
1 RECIPROCATIN 65 HP	ING-CARBURETO	St OR 	all Warning			
RECIPROCATIN 65 HP	ING-CARBURETO	R irport P	roximity	System	- NO	
65 HP		irport P				
	A					
ıt	А					
nt	A					
nt		OFF ATD				
		OII AIK	PORT/STRIP			
PLACERVILLE, CA						
Destination Airport Data SILVER SPRINGS.NV						
1		_	-			
				N/A		
n - NONE		•	Lth/Wid - Surface -	•		
- NONE			Status -			
- NONE - NONE		Runway	status -	N/A		
NONE						
Medical (Certificate	- VALTD	MEDICAL -WAI	VEDS/LTA	ATT	
Medical		Time (Ho		VLK3/LIN	11 1	
	al - 21			Hrs -	2	
Make	e/Model- 3	864	Last 30			
Inst	trument- 1	67	Last 90	Davs-	27	
Mult	ti-Eng -	43	Rotorcra	ft - UN	IK/NR	
	_		~			
	Mak 8 Ins Mul	Make/Model- 3 8 Instrument- 1 Multi-Eng	Make/Model- 364 8 Instrument- 167 Multi-Eng - 43	Make/Model- 364 Last 30 8 Instrument- 167 Last 90 Multi-Eng - 43 Rotorcra	Make/Model- 364 Last 30 Days- 8 Instrument- 167 Last 90 Days- Multi-Eng - 43 Rotorcraft - UN 	

File No. - 43 1/29/89 MINDEN,NV A/C Reg. No. N48688 Time (Lc1) - 1006 PST

Occurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation CLIMB

Finding(s)

1. WEATHER CONDITION - UNFAVORABLE WIND
2. WEATHER CONDITION - MOUNTAIN WAVE
3. PROPER ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND
4. TERRAIN CONDITION - MOUNTAINOUS/HILLY
5. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND
6. STALL/SPIN

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation DESCENT - UNCONTROLLED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO MAINTAIN ADEQUATE AIRSPEED AND AIRPLANE CONTROL. CONTRIBUTING TO THE ACCIDENT WAS THE MOUNTAINOUS TERRAIN AND MOUNTAIN WAVE CONDITIONS.

----Probable Cause----

-Basic Information			·			
Type Operating Certificate-NONE (GENERA			_	Injur		
The Section of the Thirty of t	SUBSTANT		Fatal			
Type of Operation -INSTRUCTIONA Flight Conducted Under -14 CFR 91		Crew Pass	0	_	0	2 0
Accident Occurred During -LANDING		Pass	-	_	J	O
-Aircraft Information						
Make/Model - GULFSTREAM COMMANDER 11		MING TO-360-C1A6D		installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1			all Warning	g System ·	- YES
Max Gross Wt - 2950	Engine Type - RECI)R			
No. of Seats - 4	Rated Power - 2	!10 HP 				·
-Environment/Operations Information						
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary	, and a second s		roximity		
Method - N/A	Last Departure Point SAME AS ACC/INC		ON AIRF	URI		
Completeness - N/A	Destination	Λ :	rport Da	+->		
Basic Weather - VMC	LOCAL	A	RENO	ita		
Wind Dir/Speed- 220/004 KTS	LOCAL			Ident -	25	
Visibility - 25.0 SM	ATC/Airspace			Lth/Wid -		150
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance -		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -	TOUCH AND GO				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Biennial Flight Review	ledical Certificate Flight	Time (Ho	ours)		
PRIVATE	Current - UNK/NR	Total - 4	40	Last 24	Hrs - UN	K/NR
SE LAND	Months Since - UNK/NR	Make/Model- UNK/ Instrument- UNK/ Multi-Eng - UNK/	NR	Last 30	Days- UN	K/NR
	Aircraft Type - UNK/NR	Instrument- UNK/	NR	Last 90	Days- UN	K/NR
		Multi-Eng - UNK/	NR	Rotorcra	aft - UNF	K/NR
Instrument Rating(s) - NONE						
FOURTH POWER-OFF APPROACH TO TOUCH-AND-GO	LANDING, THE PLT OVERSHOT THE	CENTERLINE AND BAN	IKED BACK	STEEPLY, (DRAGGING	
GTIP BEFORE TOUCHDOWN. THE CFI TOOK CONTRO						
ER DISCOVERED THAT THE LEFT WING WAS BENT.	•					

File No. - 97 1/29/89 RENO, NV A/C Reg. No. N4639W Time (Lcl) - 1520 PST DRAGGED WING, ROTOR, POD, OR FLOAT Occurrence #1 Phase of Operation LANDING Finding(s) 1. AIRCRAFT HANDLING - NOT MAINTAINED - DUAL STUDENT

- 2. SUPERVISION INADEQUATE PILOT IN COMMAND(CFI)
- 3. TOUCH-AND-GO PERFORMED PILOT IN COMMAND(CFI)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO MAINTAIN CONTROL OF THE AIRPLANE AND THE CFI'S INADEQUATE SUPERVISION OF THE PILOT.

File No 104 5/01/89 GERLA	CH,NV A/C Reg	. No. N4439E	T	ime (Lcl) -	1300 PDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -INSTRUCTIONA	SUBSTANT		Fatal O	Injur Serious O		None 2
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	0
Aircraft Information Make/Model - PIPER PA-38-112 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Eng Make/Model - LYCO Number Engines - 1 Engine Type - RECI Rated Power - 1	PROCATING-CARBUR	S	Installed/Ad tall Warning		
Environment/Operations Information						
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Point RENO,NV			Proximity RPORT/STRIP		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM	Destination LOCAL		Runway	ANCH STRIP Ident -		
Visibility - 20.0 SM Lowest Sky/Clouds - 7000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT		NONE	Runway	Lth/Wid - Surface - Status -	DIRT	150
Personnel Information Pilot-In-Command	Age - 34 M	edical Certifica	te - VALID	MEDICAL-WAI	VERS/LIN	1 T T
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	ht Time (H	ours)		
COMMERCIAL,CFI SE LAND	Current - YES Months Since - 3	Total -	831	Last 24	Hrs -	1 8
GLIDER	Aircraft Type - SGS-233	Make/Model- Instrument- Multi-Eng -	63 1	Last 90	Days-	8
Instrument Rating(s) - AIRPLANE						
Narrative E INSTRUCTOR PLT (CFI) ELECTED TO DEMONSTRA LAND, HE SAW MOUNDS OF SOFT DIRT ON THE ST REALIZED THERE WAS INSUFFICIENT RWY REMAIN LL POWER & RAISED THE ACFT'S NOSE TO CLEAR E LANDING AREA. THE LANDING GEAR THEN HIT A	RIP & INCREASED POWER TO "CAR ING TO COMPLETE THE LANDING, A FENCE, BUT THE ACFT LOST FL	RY THE GLIDE BEY SO HE INITIATED : YING SPEED & SET	OND THEM." A GO-AROUN	SUBSEQUENT D. HE APPLIE	ΓLΥ, ED	

File No. - 104 5/01/89 GERLACH,NV A/C Reg. No. N4439E Time (Lcl) - 1300 PDT

Occurrence #1

IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING - ABORTED

Finding(s)

- 1. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION ROUGH/UNEVEN
- 2. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND(CFI)
- 3. ABORTED LANDING DELAYED PILOT IN COMMAND(CFI)
- 4. AIRSPEED NOT MAINTAINED PILOT IN COMMAND(CFI)
- 5. STALL/MUSH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A DELAY BY THE PILOT IN ABORTING THE LANDING AND HIS FAILURE TO ASSURE SUFFICIENT AIRSPEED FOR THE GO-AROUND (ABORTED LANDING). A FACTOR RELATED TO THE ACCIDENT WAS: THE UNSUITABLE LANDING AREA THAT WAS SELECTED BY THE PILOT.

-Basic Information Type Operating Certificate-NONE (GE	NEDAL AVIATION) Aircra	ft Damage		Injun	ies ·	
Type operating certificate Novic (di		ANTIAL	Fatal			None
Type of Operation -PERSONAL	. Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 9) 1 NONE	Pass	0	0	0	0
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - PIPER PA-38-112		YCOMING 0-235-L2C		Installed/Ad		
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670	Number Engines -	1 ECIPROCATING-CARBURE	-TOD	tall Warning	g System	- YES
No. of Seats - 2	Rated Power -		IUK			
-Environment/Operations Information Weather Data	 Itinerary		Airport	Proximity		
Wx Briefing - UNK/NR	Last Departure Poin	t		RPORT/STRIP		
Method - UNK/NR	GAITHERSBURG, MD	•	011 71	KI OKI / SIKI		
Completeness - UNK/NR	Destination		Airport D	ata		
Basic Weather - VMC	ALBANY, NY		·			
Wind Dir/Speed- 320/020 KTS		•		Ident -		
Visibility - 20.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - 3500 FT	Type of Flight Plan			Surface -		
Lowest Ceiling - 3500 FT			Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LANDING				
Precipitation - NONE Condition of Light - NIGHT(DAR	עע)					
-Personnel Information Pilot-In-Command	Age - 50	Medical Certificat	e - VALID	MEDICAL-WAI		ΙΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Fliat	nt Time (H	ours)		
PRIVATE	Current - YES	Total -	931	Last 24	Hrs -	4
SE LAND	Current - YES Months Since - 13 Aircraft Type - C-152	Make/Model-	708	Last 30	Days-	21
	Aircraft Type - C-152	Instrument-	202	Last 90	Days-	43
	-	i				
Instrument Rating(s) - AIRPLAN	 		·			
-Narrative						
ACFT COLLIDED WITH TREES AND TERRAIN,						
JPANT, WAS NOT INJURED, HOWEVER, THE A	IRCRAFT RECEIVING SUBSTANTIAL [DAMAGE. THE PILOT SA	ID HE RAN	OUT OF GAS	BUT	

File No. - 78 1/13/89 ALBANY,NY A/C Reg. No. N2361K Time (Lc1) - 1900 EST LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Occurrence #1 Phase of Operation CRUISE - HOLDING(IFR) Finding(s) 1. FLUID, FUEL - EXHAUSTION 2. IN-FLIGHT PLANNING/DECISION - INADEQUATE - PILOT IN COMMAND 3. FUEL CONSUMPTION CALCULATIONS - MISJUDGED - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. OBJECT - FENCE 5. OBJECT - TREE(S) ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL EXHAUSTION RESULTING FROM THE PILOT'S INADEQUATE IN-FLIGHT PLANNING AND MISJUDGED FUEL CONSUMPTION.

File No 199 1/14/89 SHIRL	EY,NY A/C Re	g. No. N6888G	Time	(Lc1) - 1100	EST
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraft SUBSTAN Fire NONE		Fatal Se O O	•	or None 0 1 0 1
Aircraft Information Make/Model - CESSNA 150L Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2	9 / 1		Stall	called/Activa Warning Sys	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point E. MARICHES,NY Destination SHIRLEY,NY ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	VFR NONE		N ent - 33 n/Wid - 432 face - ASPH	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 65 Biennial Flight Review Current - YES Months Since - 15 Aircraft Type - C-150	Total -	t Time (Hours 325 <td>s) Last 24 Hrs</td> <td>- UNK/NR - UNK/NR - UNK/NR</td>	s) Last 24 Hrs	- UNK/NR - UNK/NR - UNK/NR
Narrative E PLT REPORTED THAT ON HIS INITIAL APPROACH AT THE AIRPLANE TOUCHED DOWN HARD, NOSE WHE GO AROUND BUT THE AIRPLANE STALLED AND BOU TCH OSCILLATIONS. THE AIRPLANE SUSTAINED SU TITUDE. THE PLT REPORTED THAT THERE WERE NO	EL FIRST. THE AIRPLANE THEN NCED AGAIN. THE PLT CLOSED T BSTANTIAL DAMAGE AND CAME TO	BOUNCED. THE PLT S HE THROTTLE AND AT	AID HE ADDED TEMPTED TO ST	POWER OP THE	

File No. - 199 1/14/89 SHIRLEY, NY A/C Reg. No. N6888G Time (Lcl) - 1100 EST Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. PLANNED APPROACH - POOR - PILOT IN COMMAND 2. FLARE - IMPROPER - PILOT IN COMMAND Occurrence #2 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 3. RECOVERY FROM BOUNCED LANDING - IMPROPER - PILOT IN COMMAND 4. PORPOISE - INADVERTENT -Occurrence #3 MAIN GEAR COLLAPSED Phase of Operation LANDING - ROLL Finding(s) 5. LANDING GEAR, NOSE GEAR - OVERLOAD ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

A POORLY PLANNED FINAL APPROACH, AN IMPROPER LANDING FLARE, AND FAILURE OF THE PILOT TO CORRECT A BOUNCED LANDING.

Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft Dama	ige		Injur	ies	
		SUBSTANTIAL			Serious	Minor	None
Type of Operation -INSTRUCTION	AL	Fire	Crew	_	0	0	2
Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING		NONE	Pass	•	0	0	0
Aircraft Information							
Make/Model - ROBINSON R-22B		e/Model - LYCOMING	6 0-320-BC				
Landing Gear - SKID Max Gross Wt - 1370		Engines - 1 Type - RECIPROC	ATTNO-CADDUD		tall Warning	g System	- NO
No. of Seats - 2	Rated Po						
Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary				Proximity		
Method - N/A	a Last Depa FARMINO	arture Point GDALE.NY		OFF AI	RPORT/STRIP		
Completeness - N/A	Destination	-		Airport D	ata		
Basic Weather - VMC	LOCAL						
Wind Dir/Speed- 240/010 KTS	. = 0 (Ident -		
Visibility - 10.0 SM Lowest Sky/Clouds - N/A	ATC/Airspac	ce Flight Plan - NONE			Lth/Wid - Surface -		
Lowest Sky/Clouds - N/A Lowest Ceiling - 4000 FT OVE					Status -		
Obstructions to Vision- NONE		n/Lndg - NONE			0.0.1	,	
Precipitation - NONE		. •					
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 25	Medic	al Certificat	e - UNK/N	.		
Certificate(s)/Rating(s)	Biennial Flight	Medic : Review	Fligh	nt Time (H			
COMMERCIAL	Current	- UNK/NR T ce - UNK/NR M	otal -	870	Last 24	Hrs -	4
		ce - UNK/NR M	lake/Mode1-	848	Last 30	Days-	60
HELICOPTER	Aircraft ()	/pe - UNK/NR I	nstrument- UN ulti-Eng - UN	IK/NR	Last 90	Days- aft - UN	200
		ļv	utti-Eng - ur	IK/ NK	ROTOPCP	art - UN	NK/NK
Instrument Rating(s) - NONE							
Narrative							
NG A QUICK STOP DEMONSTRATION BY THE INS	TRUCTOR PILOT, TH	HE AIRCRAFT SKIDS	HIT THE GROUN	ID HARD. TI	HE MAIN ROTO	DR	
DES STRUCK THE TAIL AND BROKE IT OFF. THE	HELICOPTER THEN	ROLLED OVER ONTO	ITS LEFT SIDE	AND CAME	TO REST. TH	ΗE	

File No. - 197 3/29/89 FARMINGDALE, NY A/C Reg. No. N2553X Time (Lcl) - 1455 EST DRAGGED WING, ROTOR, POD, OR FLOAT Occurrence #1 Phase of Operation MANEUVERING Finding(s) 1. ROTORCRAFT FLIGHT CONTROLS - IMPROPER USE OF - PILOT IN COMMAND(CFI) 2. ALTITUDE - MISJUDGED - PILOT IN COMMAND(CFI) ROLL OVER Occurrence #2 Phase of Operation MANEUVERING ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S FAILURE TO CONTROL THE ALTITUDE OF THE HELICOPTER WHILE DEMONSTRATING A QUICK STOP MANEUVER TO A STUDENT.

File No 133 1/09/89 WILMING	TON,OH A/C Re	g. No. N6Y	T	ime (Lcl)	- 0901 EST	
Basic Information Type Operating Certificate-NONE (GENERAL		_		Inju		
T	DESTROY		Fatal		Minor	None
Type of Operation -DEMO	Fire	Crev		0	. 0	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	ON GROU	ND Pas:	5 1	0	0	0
Aircraft Information						
Make/Model - SWEARINGEN SX-300	Eng Make/Model - LYC	OMING IO-540-L1C		Installed/		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1		S	itall Warnii	ng System	- UNK/NR
Max Gross Wt - 2400		IP-FUEL INJECTED				
No. of Seats - 2	Rated Power -	300 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - MILITARY	Last Departure Point		OFF AI	RPORT/STRI)	
Method - IN PERSON	DAYTON, OH					
Completeness - FULL	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		_			
Wind Dir/Speed- 220/010 KTS	ATO /A :				- N/A	
Visibility - 15.0 SM	ATC/Airspace	150	,	Lth/Wid	* .	
	RED Type of Flight Plan -		-	Surface		
Lowest Ceiling - 12000 FT BROKEN Obstructions to Vision- NONE	, ,	IFR NONE	Runway	Status ·	· N/A	
Precipitation - NONE	Type Apch/Lndg -	NUNE				
Condition of Light - DAYLIGHT						
Personnel Information						
		Medical Certifica) WAIVERS/	LIMII
	iennial Flight Review	-	ght Time (F	•		-
COMMERCIAL	Current - YES	Total -		Last 24		5
SE LAND, ME LAND	Months Since - 6	Make/Model-		Last 30		22
GLIDER	Aircraft Type - SWIFT	Instrument- Multi-Eng -	600 2332	Last 90	Days-	30
		Murti-Eng -	2332			
Instrument Rating(s) - AIRPLANE	•					
Nannativo						
Narrative	DEING DEMONSTRATED FOR TH	E UCAE AT UDICUT	DATTERCON	AED THE A	SET WAS	
HIS SX-300 (SA-29) WAS A PROOF-OF-CONCEPT ACFT LEARED TO RESTRICTED AREA R5503 AT 8000 FT FOR						
DUTINE; THERE WERE NO DISTRESS TRANSMISSIONS.						
REAKUP. THE WRECKAGE PATH WAS ABOUT 1 MILE IN						
DWER ATTACHMENT FITTING EXHIBITED A FATIGUE AR F TWO WELD BEADS. PRE-EXISTING CRACKS WERE ALS						
ENT FITTINGS. THE ACFT HAD BEEN IN SVC 571 HRS						
ESTANED HAD STATIC LOAD TESTED THE WINCS TO A	CIC & CHODECTED THE ACET H	VD BEEN CIID IEUTEI				
ESIGNER HAD STATIC LOAD TESTED THE WINGS TO 6 HE PLT TOLD AN ACQUAINTANCE THAT HE HAD ROUTIN) IO FLI LO	IADS APCHG (G'S.	

1/09/89 A/C Reg. No. N6Y Time (Lcl) - 0901 EST File No. - 133 WILMINGTON, OH AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation CRUISE - NORMAL Finding(s) 1. WING, WING ATTACHMENT FITTING - FATIGUE MATERIAL DEFECT(INADEQUATE QUALITY CONTROL) - PRODUCTION/DESIGN PERSONNEL 3. WING, WING ATTACHMENT FITTING - FRACTURED 4. WING - SEPARATION Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation CRUISE - NORMAL Finding(s) 5. AIRCRAFT CONTROL - NOT POSSIBLE -Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FATIGUE AND RESULTING FAILURE OF THE RIGHT WING'S LOWER ATTACHMENT FITTING AND INADEQUATE QUALITY CONTROL BY THE SWEARINGEN SX-300 PRODUCTION/DESIGN PERSONNEL.

File No 36 1/19/89 WILLI	AMSBURG, OH A/C	Reg. No. N8774B	Т	ime (Lcl) -	1530 EST	
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircra	ft Damage		Injur	ies	
,) po special mg sector reads many (azmem	•	ANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew		0	1	0
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	1	Ō
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 172	Eng Make/Model - 0	ONTINENTAL 0-300-A	ELT	Installed/A	ctivated	- YES-UNK/N
Landing Gear - TRICYCLE-FIXED	Number Engines -	1	S	tall Warning	g System	- YES
Max Gross Wt - 2200	Engine Type - F	ECIPROCATING-CARBUR				
No. of Seats - 4	Rated Power -	145 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Poir	t	OFF AI	RPORT/STRIP		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	SAME AS ACC/INC		•			
Wind Dir/Speed- 230/012 KTS			Runway	Ident -	N/A	
Visibility - 15.0 SM	ATC/Airspace		Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plar	- NONE	Runway	Surface -	N/A	
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- STRAIGHT-IN				
Precipitation - NONE	•	FORCED LANDING				
Condition of Light - DAYLIGHT	·					
Personnel Information						
Pilot-In-Command	Age - 37	Medical Certifica			WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	ht Time (H	ours)		
PRIVATE	Current - YES	Total -	780	Last 24		1
SE LAND	Months Since - 5	-	450	Last 30	Days-	12
	Aircraft Type - C-172	Instrument-	52	Last 90	Days-	42
Instrument Rating(s) - NONE						
Narrative						
THE PLT COMPLETED A NORMAL RUNUP BEFORE ATTEM						
THE PLT PUMPED THE THROTTLE TO MAINTAIN POWER						
APRX 1/2 MILE FROM THE RWY. EXAM OF THE WRECK	AGE DISCLOSED THAT THE FUE	L STRAINER GASKET W	AS DEFECTI	VE, WHICH C	AUSED	
THE ENGINE TO RUN LEAN.	•					

File No	36 1/19/89	WILLIAMSBURG, OH	A/C Reg. No. N8774B	Time (Lc1) - 1530 EST
Occurrence #1 Phase of Operation	LOSS OF ENGINE TAKEOFF - INITI	POWER(PARTIAL) - MECH FA AL CLIMB	ILURE/MALF	
Finding(s) 1. FUEL SYSTEM,STR	AINER - IMPROPER	· 		
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERG	ENCY		
	IN FLIGHT COLLIS	SION WITH TERRAIN/WATER /TOUCHDOWN		
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
A DEFECTIVE GASKET IN THE FUEL STRAINER WHICH CAUSED A RESTRICTION IN FUEL FLOW DURING CLIMBOUT.

Basic Information	to NONE (CENEDA	L AVIATION) Aimono	ft Domesia		T	:	
Type Operating Certifica	TE-NUNE (GENERA		ft Damage ANTIAL	Fatal	Injur Serious	1es Minor	None
Type of Operation	-PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under		NONE	Pass	_	Ö	Ö	1
Accident Occurred During	-LANDING						
Aircraft Information							
Make/Model - CESSNA 1		Eng Make/Model - C			Installed/A		
Landing Gear - TRICYCLE	-FIXED	Number Engines -			tall Warnin	g System	- YES
Max Gross Wt - 1600			ECIPROCATING-CARBUR	ETOR			•
No. of Seats - 2		Rated Power -	100 HP				
Environment/Operations Inf	ormation						
Weather Data		Itinerary			Proximity		
Wx Briefing - NWS		Last Departure Poin	t	ON AIR	PORT		
Method - TELEPH	ONE	SAME AS ACC/INC					
Completeness - FULL		Destination		Airport D			
Basic Weather - VMC		SAME AS ACC/INC			DGE CITY		
Wind Dir/Speed- UNK/NR		. = 0 / 1 .				22	
Visibility - 10.0		ATC/Airspace			Lth/Wid -		75
Lowest Sky/Clouds -		Type of Flight Plan		,	Surface -	-	
Lowest Ceiling -		Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision		Type Apch/Lndg	- FORCED LANDING				
	- NONE						
Condition of Light	- DAYLIGHT						
Personnel Information							
Pilot-In-Command	,	Age - 53	Medical Certifica			IVERS/LIN	IIT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (F			
		Current - YES	Total -	283	Last 24		1
PRIVATE		Months Since - 11	Make/Model- U		Last 30		1
PRIVATE SE LAND			Instrument- U	NK/NR	Last 90	Davs-	5
		Aircraft Type - C-150		•			
		Aircraft Type - C-150	Multi-Eng - U	•		aft - UN	IK/NR

File No. - 37 1/22/89 CAMBRIDGE, OH A/C Reg. No. N1497Q Time (Lcl) - 1130 EST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND 2. WEATHER CONDITION - CROSSWIND 3. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND Occurrence #2 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 4. FUEL SYSTEM, CARBURETOR - INCORRECT 5. MAINTENANCE, ADJUSTMENT - IMPROPER - OTHER MAINTENANCE PSNL Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL IN CROSSWIND CONDITIONS WHILE ON SHORT FINAL AND THE IMPROPERLY ADJUSTED CARBURETOR IDLE FLOW.

-Basic Information Type Operating Certificate-NONE (GENE	RAI AVIATION)	Aircraft Damage			Injur	ies	
Type operating our trivoute none (ache	NAL AVIATION,	SUBSTANTIAL		Fatal			Non
Type of Operation -PERSONAL		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Pass	0	0	0	0
-Aircraft Information							
Make/Model - PIPER PA-22-160	Eng Make/Mo	del - LYCOMING 0-290	D-D	ELT	Installed/A	ctivated	- YES/
Landing Gear - TRICYCLE-FIXED	Number Engi				tall Warnin		
Max Gross Wt - 1840	Engine Type	- RECIPROCATING	-CARBURE	TOR			
No. of Seats - 4	Rated Power	- 125 HP					
-Environment/Operations Information	** * * * * * * * * * * * * * * * * * *						
Weather Data Wx Briefing - NWS	Itinerary	D-i			Proximity		
Wx Briefing - NWS Method - IN PERSON	Last Departu WACO.TX	re Point		UFF AII	RPORT/STRIP		
Completeness - UNK/NR	Destination	_		Airport Da	a+a		
Basic Weather - VMC	HASKELL, OK		<i>'</i>	a ii poi t bi	ata		
Wind Dir/Speed- 350/011 KTS	TASKEEL, OK			Runway	Ident -	N/A	
Visibility - 20.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - CLEAR		ht Plan - NONE			Surface -		
Lowest Ceiling - NONE		rance - NONE			Status -		
Obstructions to Vision- BLOWING DUS	T Type Apch/Ln	dg - FORCED LAI	NDING	· · · · · ·		•	
Precipitation - NONE							
Condition of Light - DUSK							3
-Personnel Information							
Pilot-In-Command	Age - 26					IVERS/LIM	IT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Re	view		t Time (H			
COMMERCIAL	Current Months Since	- YES Total		1040	Last 24	Hrs -	10
SE LAND, ME LAND	Months Since	- 12 Make/Mo			Last 30		10
	Aircraft Type		ment- Eng -		Last 90	Days-	10
Instrument Rating(s) - AIRPLANE							
-narrative PILOT SAID HE ENCOUNTERED UNFORECAST ST	DUNG MENUMINUS AND DI	OWING DUST WHEN HE	WAS 30 P	M EDOM H	IS DESTINAT	TON	
LET THE LEFT FUEL TANK RUN DRY AND SWITC							
TEL THE FELL LOFF LAWK KON DKI WIND SMILE		INTO TREES DURING TH			MAD CHARLE		

A/C Reg. No. N9023D Time (Lc1) - 1830 CST File No. - 51 3/14/89 HENRYETTA,OK LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Occurrence #1 Phase of Operation CRUISE - NORMAL Finding(s) 1. IN-FLIGHT PLANNING/DECISION - INADEQUATE - PILOT IN COMMAND 2. FLUID, FUEL - STARVATION 3. WEATHER CONDITION - UNFAVORABLE WIND 4. WEATHER CONDITION - SAND/DUST STORM ______ FORCED LANDING Occurrence #2 DESCENT - EMERGENCY Phase of Operation _____ Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 5. OBJECT - TREE(S) ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE LOSS OF ENGINE POWER FROM FUEL STARVATION DUE TO INADEQUATE INFLIGHT PLANNING/DECISION.

File No 101 3/22/89 C	ATOOSA,OK	A/C Reg.	No. N1790E	Т	ime (Lcl) -	1830 CS	Τ ,
Basic Information Type Operating Certificate-NONE (GE	NERAL AVIATION)	Aircraft Da	amage		Injur	ies	
		SUBSTANTI	\L	Fatal	Serious	Minor	None
Type of Operation -PERSONAL		Fire	Crew	0	0	1	0
Flight Conducted Under -14 CFR 9	1	NONE	Pass	0	0	1	0
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - AERONCA 7AC	Eng Make,	/Model - CONTI	IENTAL A-65	ELT :	[nstalled/#	ctivated	- YES/YES
Landing Gear - TAILWHEEL-ALL FIXED	Number Ei	ngines - 1		S.	tall Warnir	g System	- NO
Max Gross Wt - 1220	Engine Ty	ype - RECIPI	OCATING-CARBUR	ETOR			
No. of Seats - 2	Rated Po	wer - 6	5 HP				
Environment/Operations Information	-						
Weather Data	Itinerary			Airport I	Proximity		
Wx Briefing - NO RECORD OF BRIE		rture Point			RPORT/STRIF	•	
Method - N/A	TULSA, O	<			, -		
Completeness - N/A	Destination			Airport Da	ata		
Basic Weather - VMC	LOCAL			•			
Wind Dir/Speed- 130/009 KTS				Runway	Ident -	N/A	
Visibility - 15.0 SM	ATC/Airspace	е			Lth/Wid -		
Lowest Sky/Clouds - 10000 FT			DNE		Surface -		
Lowest Ceiling - NONE		learance - No			Status -		
Obstructions to Vision- NONE		/Lndg - Fi		,		,	
Precipitation - NONE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9					**;
Condition of Light - DUSK							
Pilot-In-Command	Age - 46	Med	dical Certifica	te - VALID	MEDICAL-NO	WAIVERS.	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight			ht Time (Ho			
PRIVATE	Current	- UNK/NR			Last 24	Hrs -	1
SE LAND		e - UNK/NR		400	Last 30		10
		oe - UNK/NR	Instrument-				30
			211211			54,5	,
Instrument Rating(s) - AIRPLAN	E						
Narrative							
CCORDING TO THE PILOT, THE AIRPLANE WAS							
O RESTORE POWER AND HAD TO LAND ON ROUGH							
HE TEMPERATURE & DEW POINT WERE 50 & 25		CCORDING TO CAR	RBURETOR ICING	CHARTS, CO	NDITIONS WE	RE	
ONDUCIVE TO CARBURETOR ICING AT GLIDE & :	CRITSE POWER						
DIADOCIVE TO CARBORETOR TOTING AT GETDE &	OKOIJE TOWEK.						

A/C Reg. No. N1790E Time (Lc1) - 1830 CST File No. - 101 3/22/89 CATOOSA, OK Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS 2. FUEL SYSTEM, CARBURETOR - ICE 3. CARBURETOR HEAT - IMPROPER USE OF - PILOT IN COMMAND FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. TERRAIN CONDITION - ROUGH/UNEVEN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: CARBURETOR ICE AND IMPROPER USE OF CARBURETOR HEAT. FACTORS RELATED TO THE OCCURRENCE WERE: CARBURETOR ICING CONDITIONS AND ROUGH/UNEVEN TERRAIN.

Type Operating Certificate-NONE (GE		raft Damage		Injur		
Town of Original Law DEDCOMAL		STANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR S			-	0	0	1
Accident Occurred During -LANDING	NON	IE Pass	0	0	O	
Aircraft Information						
Make/Model - PIPER PA28-140		LYCOMING 0-320-E2A		Installed/Ad		
Landing Gear - TRICYCLE-FIXED	Number Engines -			Stall Warning	g System	- YES
Max Gross Wt - 2150	5 7,	RECIPROCATING-CARBUR	ETOR			
No. of Seats - 4	Rated Power -	150 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIE	•	pint	ON AI	RPORT		
Method - N/A Completeness - N/A	BEND, OR			\ - 4 -		
Basic Weather - VMC	Destination		Airport [Jata R MARSH STATE	_	
Wind Dir/Speed- 170/010 KTS	HEALDSBURG, CA				<u>.</u> 18	
Visibility - 45.0 SM	ATC/Airspace			Lth/Wid -		60
Lowest Sky/Clouds - UNK/NR	Type of Flight Pl	an - NONE		Surface -		00
	OVERCAST Type of Clearance			Status -		DRY
Obstructions to Vision- NONE	Type Apch/Lndg	- TRAFFIC PATTERN		014140	0.10	
Precipitation - NONE	7)1	FULL STOP				
Condition of Light - DAYLIGHT		PRECAUTIONARY LA	NDIN			
Personnel Information						
Pilot-In-Command	Age - 38	Medical Certifica			WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (H			_
PRIVATE	Current - YES			Last 24		1
SE LAND	Months Since - 23		730	Last 30		29
	Aircraft Type - PA-		_, 25	Last 90		29
		Multi-Eng - U	NK/NR	Rotorcra	aft - UN	NK/NR
Instrument Rating(s) - NONE						
Narrative						
NG CRUISE FLT, THE ENG MISFIRED AND E	EGAN OPERATING ON 3 CVITNDER	S DUE TO ROUGH TERPA	TN RTW HTM	ISFLE AND A		
	O MAKE A PRECAUTIONARY LANDI					

File No	22 2/15/89	BEAVER MARSH, OR	A/C Reg. No. N95286	Time (Lcl) – 1220 PST
	LOSS OF ENGINE POV	WER(PARTIAL) - MECH FA	ILURE/MALF	
Finding(s) 1. ENGINE ASSEMBLY	,VALVE,EXHAUST - FA	ILURE, TOTAL		
Occurrence #2 Phase of Operation		CY 		
Occurrence #3 Phase of Operation 2. TERRAIN CONDITION 3. TERRAIN CONDITION 4. TERRAIN CONDITION	LANDING - ROLL ON - MOUNTAINOUS/HIL ON - RUNWAY	LLY		
4. TERRAIN CONDITIO		· 	·	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
AN LOSS OF ENGINE POWER DUE TO A FAILED EXHAUST VALVE. CONTRIBUTING TO THE ACCIDENT WAS THE SNOW COVERED TERRAIN ON WHICH A PRECAUTIONARY LANDING WAS MADE.

NY,OR A/C	Reg. No. N97764	Т	ime (Lcl) -	1410 PS	T
		Fa+al	•		None
r:					1
•		-		-	Ó
		-	-	•	U
Eng Make/Model - F	RANKLIN 6A4-150-B3	ELT	Installed/A	ctivated	I - YES/NO
Number Engines -	1	S	tall Warnin	g System	- NO
Engine Type - R	ECIPROCATING-CARBURE	TOR			
Rated Power -	150 HP				
Itinerary					
	t	ON AIR	PORT		
SAME AS ACC/INC					
Destination					
LOCAL					
				ASPHALT	•
		Runway	Status -	DRY	
Type Apch/Lndg					
	FULL STOP				
				WAIVERS	/LIMII
				11	AUZ /AUD
		20	Last 30	Days- L	NK/NR
Aircraft Type - N/A	Instrument- UN	K/NR	Last 90	Days- L	NK/NR
	Multi-Eng - UN	K/NR	ROTORCE	art - L	NK/NK
HE STUDENT USED RIGHT RUDDE	R VS AILERON TO CORR	ECT, RESU	LTING IN A		
	AL AVIATION) Aircra SUBST. Fire NONE Eng Make/Model - Find Number Engines - Engine Type - Right Rated Power - Itinerary Gust Departure Poin SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance Type of Clearance Type Apch/Lndg Age - 44 Biennial Flight Review Current - N/A Months Since - N/A Aircraft Type - N/A HT WHEN THE ACFT WAS LANDED HE STUDENT USED RIGHT RUDDER	AL AVIATION) Aircraft Damage SUBSTANTIAL Fire Crew NONE Pass Eng Make/Model - FRANKLIN 6A4-150-B3 Number Engines - 1 Engine Type - RECIPROCATING-CARBURE Rated Power - 150 HP Itinerary G Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type of Clearance - NONE Type Apch/Lndg - TRAFFIC PATTERN FULL STOP Age - 44 Biennial Flight Review Current - N/A Months Since - N/A Months Since - N/A Aircraft Type - N/A Months Type - N/A Months Since - N/A Aircraft Type - N/A Months The ACFT WAS LANDED ON THE LEFT SIDE OF HE STUDENT USED RIGHT RUDDER VS AILERON TO CORR	AL AVIATION) Aircraft Damage SUBSTANTIAL Fire Crew O NONE Pass O Eng Make/Model - FRANKLIN 6A4-150-B3 ELT Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 150 HP Itinerary G Last Departure Point SAME AS ACC/INC Destination LOCAL ALBANY ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type of Clearance - NONE Type Apch/Lndg - TRAFFIC PATTERN FULL STOP Age - 44 Biennial Flight Review Current - N/A Biennial Flight Review Current - N/A Months Since - N/A Mirror To-Bassa Mirror To-Bassa Mirror To-Bassa Mirror To-Bassa Mi	AL AVIATION) Aircraft Damage SUBSTANTIAL Fatal Serious Fire Crew 0 0 NONE Pass 0 0 NONE Pass 0 0 Eng Make/Model - FRANKLIN 6A4-150-B3 ELT Installed/A Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 150 HP Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type of Clearance - NONE Type Apch/Lndg - TRAFFIC PATTERN FULL STOP Age - 44 Biennial Flight Review Current - N/A FULL STOP Age - 44 Biennial Flight Review Current - N/A Months Since - N/A Months Since - N/A Aircraft Type - N/A Months Type - N/A Months Type - N/A Months Type - N/A Make/Model - 20 Last 24 Months Type - N/A	AL AVIATION) Aircraft Damage SUBSTANTIAL Fatal Serious Minor Fire Crew 0 0 0 NONE Pass 0 0 0 0 NONE Pass 0 0 0 0 Eng Make/Model - FRANKLIN 6A4-150-B3 ELT Installed/Activated Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 150 HP Itinerary Airport Proximity ON AIRPORT SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type of Clearance - NONE Type Apch/Lndg - TRAFFIC PATTERN FULL STOP Age - 44 Biennial Flight Review Current - N/A Current - N/A Months Since - N/A Months Since - N/A Make/Model - 20 Aircraft Type - N/A Multi-Eng - UNK/NR Rotorcraft - U

Time (Lc1) - 1410 PST 2/25/89 ALBANY, OR A/C Reg. No. N97764 File No. - 32

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Occurrence #1

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

- 1. WEATHER CONDITION CROSSWIND
- 2. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 3. LACK OF TOTAL EXPERIENCE PILOT IN COMMAND
- 4. FLIGHT CONTROLS IMPROPER USE OF PILOT IN COMMAND

Occurrence #2 NOSE OVER Phase of Operation LANDING - ROLL

Finding(s)

- 5. GROUND LOOP/SWERVE INADVERTENT PILOT IN COMMAND
- 6. LANDING GEAR, WHEEL OVERLOAD
- 7. LANDING GEAR, WHEEL FAILURE, TOTAL
- 8. LANDING GEAR, TIRE PENETRATED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE STUDENT PILOT TO MAINTAIN DIRECTIONAL CONTROL OF THE AIRPLANE DURING LANDING AND THE IMPROPER USE OF FLIGHT CONTROLS. CONTRIBUTING TO THE ACCIDENT WERE THE CROSSWIND AND THE PILOT'S LACK OF TOTAL EXPERIENCE.

File No 109 4/06/89 INDEP	ENDENCE, OR A/C	Reg. No. N504JT	. Т	ime (Lc1) -	1915 PDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -MAINT TEST Flight Conducted Under -14 CFR 91		ft Damage ANTIAL Crew Pass		Injur Serious O O		None 1 0
Accident Occurred During -MANEUVERING	HONE		Ů	Ü	Ŭ	Ū
-Aircraft Information Make/Model - THIESSEN RV-4 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1500 No. of Seats - 2	Number Engines - Engine Type - R	YCOMING 0-320-E2D 1 ECIPROCATING-CARBUR 150 HP	S	Installed/A		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 360/005 KTS	Itinerary Last Departure Poin SAME AS ACC/INC Destination LOCAL	t	OFF AI		N/A	
Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	Runway Runway	Lth/Wid - Surface -	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 51 Biennial Flight Review	Medical Certifica Flig	ht Time (H	lours)		
PRIVATE SE LAND	Current - YES Months Since - 11 Aircraft Type - C-172	Total - Make/Model- Instrument-	638 55 2	Last 24 Last 30 Last 90	Hrs - UNI Days- Days-	4 11
Instrument Rating(s) - NONE						
-Narrative PLT HAD INSTALLED A USED "SCIMITAR" PROP H ABOUT 2900 RPM, PART OF PROP SEPARATED. LE MANEUVERING TO AVOID WIRES, AT ABOUT 25	THE PLT SHUT DOWN THE ENG	& INITIATED AN EMER	GENCY LAND	ING. HOWEVE		

File No. - 109 4/06/89 INDEPENDENCE, OR A/C Reg. No. N504JT Time (Lcl) - 1915 PDT AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #1 Phase of Operation CRUISE Finding(s) 1. PROPELLER SYSTEM/ACCESSORIES, BLADE - FAILURE, TOTAL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 2. OBJECT - WIRE, TRANSMISSION 3. MANEUVER - PERFORMED - PILOT IN COMMAND 4. STALL/MUSH ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PROPELLER. A RELATED FACTOR WAS THE OBSTRUCTION (TRANSMISSION LINE) IN THE EMERGENCY LANDING AREA.

-Basic Information Type Operating Certificate-AGRICULTURA	_ AIRCRAFT Aircr	aft Damage		Injur		
		TANTIAL	Fatal	Serious		None
Type of Operation -AERIAL APPL	_			0	1	0
Flight Conducted Under -14 CFR 137 Accident Occurred During -MANEUVERING			ss 0	0	0	0
Make/Model - BELL/SOLOY 47G3B2	Eng Make/Model	ALLISON 250-C20	ELT	Installed/Ad	ctivated	- YES/YE
Landing Gear - SKID	Number Engines -		S	tall Warning	g System	- NO
Max Gross Wt - 3200	5 ,,	TURBOSHAFT				
No. of Seats - 3	Rated Power -	400 HP				
-Environment/Operations Information	·					
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	G Last Departure Poi SAME AS ACC/INC	nt	UFF AI	RPORT/STRIP		
Completeness - N/A	Destination		Airport D	2+2		
Basic Weather - VMC	LOCAL		All poil b	ata		
Wind Dir/Speed- 180/003 KTS	EGGAE		Runway	Ident -	N/A	
Visibility - 20.0 SM	ATC/Airspace				N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Pla	n - NONE			N/A	
Lowest Ceiling - NONE	Type of Clearance	- NONE	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 - 42	Medical Certific		MEDICAL -NO	WATVEDS	/. TMTT
Certificate(s)/Rating(s)	Biennial Flight Review	F1	ight Time (H		WAIVERS	/ LIMI
COMMERCIAL	Current - YES	Total -			Hrs -	7
SE LAND	Months Since - 9		450	Last 30	Days-	70
HELICOPTER	Aircraft Type - BH-2		175	Last 90	Days-	
	-,	Multi-Eng -	0	Rotorcra	aft -	7750
Instrument Rating(s) - HELICOPTER						
PLT STATED THAT THE ENG LOST POWER DURING	A PROCEDURE TURN-AROUND	& THAT INSUFFICIEN	T SPEED & AL	TITUDE WEDE		
ILABLE TO PREVENT A HARD AUTOROTATIVE LAND						

File No 1:	29 4/29/89 	MILTON-FREEWTR,OR	A/C Reg. No. N4072G	Time (Lcl) - 1030 PDT
Occurrence #1 Phase of Operation		OWER(TOTAL) - NON-MECHANI RIAL APPLICATION	ICAL	
Finding(s) 1. PLANNING-DECISIO 2. FLUID,FUEL - EXI 3. FUEL SUPPLY -	HAUSTION	T IN COMMAND		
	FORCED LANDING MANEUVERING - TU	RN TO LANDING AREA (EMERG	GENCY)	
Finding(s) 4. AUTOROTATION			· · · · · · · · · · · · · · · · · · ·	
Occurrence #3 Phase of Operation	HARD LANDING LANDING			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT, WHICH RESULTED IN FUEL EXHAUSTION FROM AN INADEQUATE SUPPLY OF FUEL.

File No 142 1/16/89 CAROLIN	NA , PR 	A/C Reg. No. N457SA		Reg. No. N457SA Time (Lc)			
Basic Information Type Operating Certificate-COMMUTER Name of Carrier -VIEQUES AIR LI Type of Operation -SCHEDULED,DOME Flight Conducted Under -14 CFR 135 Accident Occurred During -LANDING	INK, INC. ESTIC,PASSENGER F	ircraft Damage SUBSTANTIAL ire NONE	Crew Pass	Fatal O O	Injur Serious O O	Minor O O	None 1 5
Aircraft Information Make/Model - BRITTEN-NORMAN BN-2A Landing Gear - TRICYCLE-FIXED Max Gross Wt - 6000 No. of Seats - 10	Eng Make/Mode Number Engine Engine Type Rated Power	1 - LYCOMING O-5	540-E4C5	ELT S TOR	Installed/A tall Warnir	ctivated ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed 120/005 KTS Visibility - 12.0 SM Lowest Sky/Clouds - 1200 FT SCATTE Lowest Ceiling - 9000 FT BROKEN Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	Itinerary Last Departure VIEQUES,PR Destination SAN JUAN,PR ATC/Airspace ERED Type of Flight Type of Cleara Type Apch/Lndg	Plan - VFR nce - NONE		OFF AII Airport Da Runway Runway Runway		N/A N/A N/A	
	age - 35 Biennial Flight Revi Current - Months Since - Aircraft Type -	ew YES Total 7 Make/ BN-2A Instr	Fligh - Model- rument-	t Time (Ho 7200 2100	MEDICAL-NO ours) Last 24 Last 30 Last 90	Hrs - Days-	2 60 150
Instrument Rating(s) - AIRPLANENarrative E PLT ORDERED 42 GALLONS OF FUEL TO BE ADDED E LINEMAN ADDED 4.2 GALLONS BRINGING THE TOTA IOR TO DEPARTURE. THE ACFT WAS FLOWN FROM SAN DED AND THE PLT AGAIN DID NOT VERIFY HIS FUEL .2 GALLONS OF FUEL. ON DESCENT INTO SAN JUAN ELD. AFTER ROLLING ABOUT 100 YDS THE LEFT LDG NTAINED 36 OUNCES OF FUEL WITH NO EVIDENCE OF CHANICAL FAILURE OR MALFUNCTION AFTER THE ACC STATED HE WAS WORKING ONLY HIS FIFTH DAY AND	L FUEL LOAD TO 22.2 JUAN TO VIEQUES IN LOAD. THE FLT DEPA BOTH ENGINES FAILED G GR COLLAPSED. POST LEAKAGE. THE ENGIN CIDENT. THE LINEMAN	OULD BRING THE T GALLONS. THE PL WHICH 12 GALLON RTED VIEQUES EN AND A FORCED LA CRASH EXAMINATI ES WERE OPERATED HAD BEEN HIRED A	T DID NOT NS WERE BU ROUTE BAC NDING WAS TON OF THE TO FULL AS A PART-	VERIFY THE RNED. NO I K TO SAN MADE IN A ACFT REVI POWER WITH	HE FUEL LOA FUEL WAS JUAN WITH A SUGAR CAN EALED IT H NO EVIDEN	D IE ICE OF	

File No. - 142 1/16/89 CAROLINA, PR A/C Reg. No. N457SA Time (Lcl) - 1814 AST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation DESCENT - NORMAL Finding(s) 1. REFUELING - IMPROPER - FBO PERSONNEL IMPROPER INITIAL TRAINING - FBO PERSONNEL 3. AIRCRAFT PREFLIGHT - IMPROPER - PILOT IN COMMAND 4. PROCEDURES/DIRECTIVES - NOT FOLLOWED - PILOT IN COMMAND 5. FLUID FUEL - EXHAUSTION Occurrence #2 FORCED LANDING Phase of Operation Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 6. TERRAIN CONDITION - CROP 7. TERRAIN CONDITION - WET

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL EXHAUSTION AND THE FAILURE OF THE PILOT TO INSURE THAT THE PROPER FUEL LOAD WAS PLACED ON THE AIRCRAFT FOR THE FLIGHT. CONTRIBUTING FACTORS INCLUDED THE IMPROPER REFUELING OF THE AIRCRAFT, IMPROPER INITIAL TRAINING OF THE REFUELER AND THE CROP, WHICH CAUSED SUBSTANTIAL DAMAGE TO THE AIRCRAFT.

File No 105 1/14/89 FLORE	1/14/89 FLORENCE,SC A/C Reg. No. N5289Y Time (Lc1) - 1748 EST			A/C Reg. No. N5289Y			T
Basic Information Type Operating Certificate-NONE (GENERA	AL AVIATION)	Aircraft Da SUBSTANTIA	Injuries Fatal Serious M			None	
Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire IN FLIGHT	Crev Pas:	-	0 0	0	1 .
Aircraft Information Make/Model - CESSNA T210N Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 4000 No. of Seats - 6		•	FUEL INJECTED		Installed//tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 360/007 KTS Visibility - 7.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 1900 FT OVER Obstructions to Vision- NONE Precipitation - RAIN Condition of Light - DUSK	FLORENCE Destination GAINESVI ATC/Airspace Type of Fl	LLE,FL e ight Plan - IF earance - IF		OFF AI Airport D FLOREN Runway Runway Runway	CE CITY	· 18 · 6498/ · ASPHALT	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 51 Biennial Flight Current Months Since Aircraft Typ	Review - YES - 17	ical Certifica Flig Total - Make/Model- Instrument- Multi-Eng -	ght Time (H 8927 710 75		Hrs - Days-	/LIMIT 3 65 220
Instrument Rating(s) - AIRPLANE							
Narrative E PILOT REPORTED HEARING A KNOCKING SOUND WELDOUD NOISE AND ENGINE VIBRATION. THE PLT RESTRICTED HE AREALING A KNOCKING SOUND WELDOUD NOISE AND ECCIVE AT SMOKE AND FLAMES WERE COMING FROM THE COUCHDOWN, THE NOSEGEAR COLLAPSED AND THE ACFAIT TWO CRANKCASE THROUGHBOLTS WERE UNDERTOR OF THE OTHER CRANKSHAFT BRGS. OVERHEATING OF THE EN REPLACED JAN 2. 1989, 28 HRS BEFORE THE	EPORTED THAT HE AF /ED RADAR VECTORS. DWLING. THE PLT EL FT NOSED OVER. EXA RQUED. THE CRANKSH E CONNECTING ROD	PARENTLY HAD L AFTER DESCEND ECTED TO MAKE M OF THE ENGIN HAFT MN BRG HAD	OST A CYLINDEF ING THROUGH CI A FORCED LDG : E REVEALED TWO ROTATED, BLOO	R AND OIL P OUDS, THE IN A SMALL BROKEN CO KING THE O	RESSURE WAS PLT REPORTE FIELD. ON NNECTING RO IL PASSAGE	S ED DDS AND TO	-

1/14/89 A/C Reg. No. N5289Y Time (Lc1) - 1748 EST File No. - 105 FLORENCE, SC Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation CLIMB - TO CRUISE Finding(s) 1. ENGINE ASSEMBLY, CYLINDER - UNDERTORQUED 2. MAINTENANCE, INSTALLATION - IMPROPER - COMPANY MAINTENANCE PSNL 3. FLUID, OIL - STARVATION 4. ENGINE ASSEMBLY, CONNECTING ROD - FAILURE, TOTAL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE GEAR COLLAPSED Phase of Operation LANDING - ROLL Finding(s) 5. TERRAIN CONDITION - ROUGH/UNEVEN Occurrence #4 NOSE OVER Phase of Operation LANDING - ROLL ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

THE FAILURE OF MAINTENANCE PERSONNEL TO PROPERLY TORQUE THE THRU BOLTS DURING NUMBER 2 CYLINDER INSTALLATION. CONTRIBUTING FACTORS TO THE ACCIDENT WERE TERRAIN FEATURES WHICH LED TO THE COLLAPSE OF THE NOSE GEAR DURING LANDING.

File No 49 1/01/89 AUS	STIN, TX A/C	Reg. No. N66385	•	T		
Basic Information Type Operating Certificate-NONE (GENE		ft Damage		Inju		
	- · · - ·	ANTIAL	Fatal	•		None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	NONE	Pass	0	0	0	0
Aircraft Information	·					
Make/Model - CESSNA 150		ONTINENTAL 0-200-A				- YES-UNK/NE
Landing Gear - TRICYCLE-FIXED	Number Engines -			Stall Warni	ng System	- YES
Max Gross Wt - 1600		ECIPROCATING-CARBUR	ETOR			
No. of Seats - 2	Rated Power -	100 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
.Wx Briefing - NO RECORD OF BRIEF		t	OFF A	IRPORT/STRI	Р	
Method - N/A	LIVINGSTON, TX					
Completeness - N/A	Destination	~-	Airport [Data		
Basic Weather - VMC	SAME AS ACC/INC		D	. TI	N1 / A	
Wind Dir/Speed- 160/004 KTS	ATC/Airspace			/ Ident / Lth/Wid	- N/A	
Visibility - 20.0 SM Lowest Sky/Clouds - N/A	Type of Flight Plan			/ Ltn/wid / Surface		
	/ERCAST Type of Clearance			/ Status		
Obstructions to Vision- NONE	Type Apch/Lndg		Kariwa	Julus	11/ //	
Precipitation - NONE	Type Apolly Ellag	TORCED EARDING				
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 41	Medical Certifica	te - VALI	MEDICAL-N	O WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review Current - YES	Flig	ht Time (Ł			
PRIVATE	Current - YES	Total -	77	Last 2	4 Hrs -	4
SE LAND	Months Since - 1	Make/Model-	24	Last 3	O Days-	10
	Months Since - 1 Aircraft Type - C-150	Instrument-	. 1	Last 9	O Days-	31
Instrument Rating(s) - NONE						
Narrative THE PILOT WAS RETURNING FROM A CROSS-COUNTF LANDING, THE AIRPLANE STRUCK WIRES, THEN TH WAS LITTLE OR NO FUEL LEFT IN THE TANKS. THE	HE TERRAIN. THE FUEL SYSTEM W	AS CHECKED, AND NO				
	·					

File No. - 49 1/01/89 AUSTIN, TX A/C Reg. No. N66385 Time (Lcl) - 1710 CST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 2. FLUID, FUEL - EXHAUSTION 3. REFUELING - NOT PERFORMED ~ PILOT IN COMMAND 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 - WIRE, TRANSMISSION Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - EMERGENCY Finding(s) 5. TERRAIN CONDITION - ROADWAY/HIGHWAY ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT DID NOT HAVE AN ADEQUATE FUEL SUPPLY TO COMPLETE THE FLIGHT. THE PLTS FLT PLANNING WAS INADEQUATE AND THE IGNORED OPPORTUNITIES TO OBTAIN FUEL ENROUTE LED TO FUEL EXHAUSTION, PRIOR TO REACHING DESTINATION.

-Basic Information Type Operating Certificate-NONE (GENERA	AVIATION) A:	craft Damage			Inju	nioc	
Type operating certificate-none (GENERA		JBSTANTIAL		Fatal	Serious		None
Type of Operation -PERSONAL	Fir		Crew	0	1	0	0
Flight Conducted Under -14 CFR 91	NO	DNE	Pass	0	0	0	0
Accident Occurred During -APPROACH							
-Aircraft Information							
Make/Model - PITTS S1A	Eng Make/Model	- LYCOMING 0-320		ELT I			
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines	- 1		_ St	all Warnii	ng System	- NO
Max Gross Wt - 1100		- RECIPROCATING-CA	RBURETO	₹			
No. of Seats - 1	Rated Power	- 150 HP .					
-Environment/Operations Information							
Weather Data	Itinerary		Α		roximity		
Wx Briefing - NO RECORD OF BRIEFING				ON AIRP	ORT		
Method - N/A	SAME AS ACC/IN	1C					
Completeness - N/A Basic Weather - VMC	Destination LOCAL		A 1	rport Da REBEL F			
Wind Dir/Speed- UNK/NR	LUCAL				Ident ·	- 17	
Visibility - 5.0 SM	ATC/Airspace				Lth/Wid		100
Lowest Sky/Clouds - CLEAR	Type of Flight F	Plan - NONE			Surface		
Lowest Ceiling - NONE	Type of Clearand			Runway		- DRY	
Obstructions to Vision- NONE		- STRAIGHT-IN		•			
Precipitation - NONE	,, , , ,	FULL STOP					
Condition of Light - DAYLIGHT							
-Personnel Information		`					
Pilot-In-Command	Age - 54					O WAIVERS/	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review Current - YE	<i>t</i>		Time (Ho			
PRIVATE	Current - YE	S Total				4 Hrs -	
SE LAND	Months Since - 19	Make/Mode	1 - 39	94	Last 30	Days-	
	Aircraft Type - C-		it- UNK/I	NK NB	Last 90	о Days- raft - UN	10
		Multi-Eng	j - UNK/I	NK	ROTOPCI	raft - Ur	NK/NK
Instrument Rating(s) - NONE							
-Nana+ivo							
-Narrative T SETTLED ON FINAL APP, STRUCK PWR LINES,			D. T. U.A.C.		D 117711 TI	-	

File No. - 176 1/22/89 SANTA FE,TX A/C Reg. No. N9961 Time (Lc1) - 1530 CST

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT
Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)
1. OBJECT - WIRE,TRANSMISSION(MARKED)
2. CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation DESCENT - UNCONTROLLED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT IN COMMAND FAILED TO MAINTAIN ADEQUATE ALTITUDE AND CLEARANCE ON FINAL APPROACH.

----Probable Cause----

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File No 28 2/02/89 RICHA	RDS,TX A/C	Reg. No. N6675H	T	ime (Lcl) -	1745 CS	T
Basic Information Type Operating Certificate-NONE (GENERA		aft Damage TANTIAL	Fatal	Injuri Serious	es Minor	None
Type of Operation -PERSONAL	Fire	Crew	0	0	1	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	NONE	Pass	0	Ö	1	Ö
Aircraft Information						
Make/Model - PIPER J-3C-65 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1220 No. of Seats - 2	Number Engines - Engine Type -	CONTINENTAL C-85-8F 1 RECIPROCATING-CARBUR 85 HP	. S	Installed/Actall Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary : Last Departure Poi SAME AS ACC/INC	nţ		Proximity RPORT/STRIP		
Completeness - N/A Basic Weather - VMC	Destination LOCAL		Airport D	ata		
Wind Dir/Speed- 320/014 KTS Visibility - 7.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 800 FT OVER Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - DUSK	ATC/Airspace Type of Flight Pla CAST Type of Clearance Type Apch/Lndg	- NONE	Runway Runway	Ident - Lth/Wid - Surface - Status -	GRASS/TI	
-Personnel Information						
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 45 Biennial Flight Review		ht Time (H	ours)	·	
COMMERCIAL SE LAND, ME LAND	Current - YES Months Since - 5 Aircraft Type - C-20	Make/Model-	250 NK/NR	Last 24 Last 30 Last 90 Rotorcra	Days- Days-	2 2
Instrument Rating(s) - AIRPLANE						
Narrative E PILOT HAD DEPARTED HIS PRIVATE AIRSTRIP 1 EN THE AIRPLANE HIT FIRST A TREE AND THEN T CONTROLLABLE AND BLEW IT INTO THE TREE. THE KNOTS GUSTING TO 25 KNOTS. WEATHER LISTED DM THE ACCIDENT SITE.	HE GROUND. THE PILOT STAT PILOT ALSO STATED THE WI	ED A GUST OF WIND MAND WAS FROM THE WEST	DE THE AIR -SOUTHWEST	PLANE AT AN ESTIM		

File No. - 28 2/02/89 RICHARDS, TX A/C Reg. No. N6675H Time (Lc1) - 1745 CST LOSS OF CONTROL - IN FLIGHT Occurrence #1 Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL Finding(s) 1. WEATHER CONDITION - CROSSWIND 2. WEATHER CONDITION - HIGH WIND 3. WEATHER CONDITION - GUSTS 4. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 5. WIND INFORMATION - DISREGARDED - PILOT IN COMMAND 6. COMPENSATION FOR WIND CONDITIONS - NOT POSSIBLE - PILOT IN COMMAND OVER CONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL Finding(s) 8. OBJECT - TREE(S) Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 9. TERRAIN CONDITION - GROUND ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADEQUATE PREFLIGHT PLANNING/PREPARATION IN DISREGARDING WIND INFORMATION. CONTRIBUTING TO THE ACCIDENT WERE THE GUSTING CROSSWIND CONDITIONS AND THE PILOT'S OVERCONFIDENCE IN PERSONAL ABILITY.

	EL PASO,TX A/C Reg. No. N91363							
-Basic Information Type Operating Certificate-NONE (GEN				Injurie		,		
T	SUBSTAN		Fatal		Minor	None		
Type of Operation -PERSONAL	Fire	Crew	-	1	0	0		
Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	NONE	Pass	0	0	0	0		
-Aircraft Information								
Make/Model - ICA BRASOR IS-28B2	Eng Make/Model - N/A			Installed/Act				
Landing Gear - HULL	Number Engines - N/A		Ş	Stall Warning	System	- NO		
Max Gross Wt - 1301	Engine Type - N/A							
No. of Seats - 2	Rated Power - N/A							
-Environment/Operations Information								
Weather Data	Itinerary			Proximity				
Wx Briefing - NO RECORD OF BRIEF			ON AIF	RPORT				
Method - N/A	SAME AS ACC/INC							
Completeness - N/A	Destination		Airport [
Basic Weather - VMC	LOCAL		WEST T					
Wind Dir/Speed- 270/011 KTS				/ Ident - 2				
Visibility - 70.0 SM	ATC/Airspace			/ Lth/Wid -		50		
	CATTERED Type of Flight Plan -			/ Surface - A				
Lowest Ceiling - NONE	Type of Clearance -		Runway	/ Status - D	DRY			
Obstructions to Vision- NONE	Type Apch/Lndg -	TRAFFIC PATTERN						
Precipitation - NONE								
Condition of Light - DAYLIGHT								
-Personnel Information						,		
		Medical Certifica			/ERS/LIM	IT		
Pilot-In-Command			nt Time (F	lours)				
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	•			1	2		
	Current - YES	Total -		Last 24 F				
Certificate(s)/Rating(s) PRIVATE,MILITARY,FOREIGN	Current - YES Months Since - O	Total - Make/Model-	214 44	Last 30 D	ays-	2		
<pre>Certificate(s)/Rating(s)</pre>	Current - YES	Total - Make/Model-	214 44	Last 24 H Last 30 D Last 90 D	ays-			
Certificate(s)/Rating(s) PRIVATE,MILITARY,FOREIGN	Current - YES Months Since - O	Total - Make/Model-	214 44 NK/NR	Last 30 D	ays- ays-	2		
Certificate(s)/Rating(s) PRIVATE,MILITARY,FOREIGN	Current - YES Months Since - O	Total - Make/Model- Instrument- U	214 44 NK/NR	Last 30 D Last 90 D	ays- ays-	2 2		
Certificate(s)/Rating(s) PRIVATE,MILITARY,FOREIGN GLIDER Instrument Rating(s) - NONE	Current - YES Months Since - O	Total - Make/Model- Instrument- U	214 44 NK/NR	Last 30 D Last 90 D	ays- ays-	2 2		
Certificate(s)/Rating(s) PRIVATE,MILITARY,FOREIGN GLIDER Instrument Rating(s) - NONE	Current - YES Months Since - O Aircraft Type - IS-28B2	Total - Make/Model- Instrument- UI Multi-Eng -	214 44 NK/NR O	Last 30 D Last 90 D Rotorcraf	ays- ays-	2 2		
Certificate(s)/Rating(s) PRIVATE,MILITARY,FOREIGN GLIDER	Current - YES Months Since - O Aircraft Type - IS-28B2	Total - Make/Model- Instrument- UI Multi-Eng	214 44 NK/NR O	Last 30 D Last 90 D Rotorcraf	ays- ays-	2 2		
Certificate(s)/Rating(s) PRIVATE,MILITARY,FOREIGN GLIDER Instrument Rating(s) - NONE -Narrative PLT STATED THAT AFTER ABOUT 25 MIN OF	Current - YES Months Since - O Aircraft Type - IS-28B2	Total - Make/Model- Instrument- UI Multi-Eng -	214 44 NK/NR O	Last 30 D Last 90 D Rotorcraf	ays- ays-	2 2		

A/C Reg. No. N91363 Time (Lc1) - 1650 MST File No. - 113 2/26/89 EL PASO,TX Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL Finding(s) 1. WEATHER CONDITION - TURBULENCE 2. AIRSPEED - INADEQUATE - PILOT IN COMMAND 3. STALL/SPIN - INADVERTENT - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - UNCONTROLLED Finding(s) 4. OBJECT - TREE(S) Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO MAINTAIN ADEQUATE AIRSPEED, WHILE MANEUVERING TO LAND IN TURBULENT WEATHER, WHICH RESULTED IN A STALL/SPIN AND SUBSEQUENT COLLISION WITH A TREE AND THE GROUND. TURBULENCE WAS A FACTOR.

			eg. No. N375MC Time (Lc1) - 1645 I		
					None
	_		-		. 0
NON	E Pa	iss O	O	O	0
A-9B Eng Make/Model -	LYCOMING IO-540-G1	G5 ELT	Installed/	'Activated	- NO -N
Engine Type -	RECIP-FUEL INJECTE	. D			
Rated Power -	290 HP			_	
					
Itinerary					
		ON AIR	PORT		
		•			
LUCAL				0.0	
ATO / A ÷ = = = = =					5 0
	an NONE	,	•		50
,,		,			
		Runway	Status	- DRY	
Type Apch/ Lndg					
	FORCED LANDING				
Age - 47	Medical Certifi	cate - VALID	MEDICAL-N	O WATVERS	/I TMTT
•					
			•	4 Hrs -	2
					20
	•				29
/ PASS OVER THE AIRPORT TO	DROP A GLIDER TOW PROPERLY SET UP THE				
	A-9B Eng Make/Model - Number Engines - Engine Type - Rated Power - Itinerary NG Last Departure Po SAME AS ACC/INC Destination LOCAL ATC/Airspace ATTERED Type of Flight Pla Type of Clearance Type Apch/Lndg Age - 47 Biennial Flight Review Current - YES Months Since - 9 Aircraft Type - C-19	SUBSTANTIAL Fire Cr NONE Pa A-9B Eng Make/Model - LYCOMING IO-540-Gi Number Engines - 1 Engine Type - RECIP-FUEL INJECTE Rated Power - 290 HP Itinerary NG Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace ATTERED Type of Flight Plan - NONE Type of Clearance - NONE Type of Clearance - NONE Type Apch/Lndg - STRAIGHT-IN FORCED LANDING Age - 47 Medical Certifi Biennial Flight Review Current - YES Total Months Since - 9 Make/Model- Aircraft Type - C-150 Instrument-	SUBSTANTIAL Fire Crew 0 NONE Pass 0 A-9B Eng Make/Model - LYCOMING IO-540-G1G5 ELT Number Engines - 1 Engine Type - RECIP-FUEL INJECTED Rated Power - 290 HP Itinerary Airport SAME AS ACC/INC Destination Airport D LOCAL WEST T Runway ATC/Airspace RUNWAY Type of Flight Plan - NONE Runway Type of Clearance - NONE Runway Type Apch/Lndg - STRAIGHT-IN FORCED LANDING Age - 47 Medical Certificate - VALID Biennial Flight Review Flight Time (H Current - YES Total - 1934 Months Since - 9 Make/Model - 13 Aircraft Type - C-150 Instrument - 50	SUBSTANTIAL Fatal Serious Fire Crew 0 0 0 NONE Pass 0 0 0 A-9B Eng Make/Model - LYCOMING IO-540-G1G5 ELT Installed/ Number Engines - 1 Stall Warni Engine Type - RECIP-FUEL INJECTED Rated Power - 290 HP Itinerary Airport Proximity ON AIRPORT SAME AS ACC/INC Destination Airport Data LOCAL WEST TEXAS Runway Ident ATC/Airspace Runway Surface Type of Clearance - NONE Runway Surface Type of Clearance - NONE Runway Surface Type Apch/Lndg - STRAIGHT-IN FORCED LANDING Age - 47 Medical Certificate - VALID MEDICAL-N Biennial Flight Review Flight Time (Hours) Current - YES Total - 1934 Last 2 Months Since - 9 Make/Model - 13 Last 3	SUBSTANTIAL Fire Crew O O O 1 NONE Pass O O O O A-9B Eng Make/Model - LYCOMING IO-540-G1G5 ELT Installed/Activated Number Engines - 1 Engine Type - RECIP-FUEL INJECTED Rated Power - 290 HP Itinerary SAME AS ACC/INC Destination LOCAL ATC/Airspace ATC/Airspace ATC/Airspace ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - STRAIGHT-IN FORCED LANDING Age - 47 Biennial Flight Review Current - YES Months Since - 9 Make/Model - 13 Last 30 Days- Aircraft Type - C-150 Instrument - 50 Last 90 Days-

File No. - 182 2/26/89 EL PASO,TX A/C Reg. No. N375MC Time (Lcl) - 1645 MST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation MANEUVERING Finding(s) 1. FLUID, FUEL - STARVATION 2. FUEL TANK SELECTOR POSITION - IMPROPER - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 3. EMERGENCY PROCEDURE - IMPROPER - PILOT IN COMMAND Occurrence #3 LOSS OF CONTROL - IN FLIGHT Phase of Operation DESCENT - EMERGENCY Finding(s) 4. AIRSPEED(VS) - NOT MAINTAINED - PILOT IN COMMAND 5. STALL/SPIN - INADVERTENT -Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: ENGINE FAILURE DUE TO THE PILOT'S FAILURE TO SELECT THE FULLEST TANKS AND, FAILURE TO MAINTAIN ADEQUATE FLYING SPEED.

Basic Information Type Operating Certificate-NONE (GENERAL	L AVIATION) Aircraft Da	.ma.co		Triunio		
Type operating certificate none (deneral	DESTROYED	illage	Fatal	Injurie: Serious I	s Minor	None
Type of Operation -BUSINESS	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	ON GROUND		Ö	0	0	1
Accident Occurred During -LANDING		1 433	Ü		Ü	•
-Aircraft Information						
Make/Model - CESSNA 421B	Eng Make/Model - CONTIN	NENTAL GTSIO-520				
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 2		S	tall Warning S	System	- YES
Max Gross Wt - 7450	Engine Type - RECIP-					
No. of Seats - 7	Rated Power - 375	5 HP				
-Environment/Operations Information	T. 1 (
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS	Last Departure Point		ON AIR	PORT		
Method - TELEPHONE	MEMPHIS, TN		•			
Completeness - FULL Basic Weather - IMC	Destination		Airport D		TTONIAL	
Wind Dir/Speed- 150/006 KTS	SAME AS ACC/INC		_	TONIO INTERNA	_	
Visibility250 SM	ATC/Airspace			Ident - 30		150
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan - IF	- n		Lth/Wid - 8 Surface - A		150
Lowest Ceiling - 100 FT OBSCU				Status - W		
Obstructions to Vision- FOG	Type Apch/Lndg - IL		Kuriway	Status - Wi	- 1	
Precipitation - DRIZZLE		RAFFIC PATTERN				
Condition of Light - NIGHT(DARK)		JLL STOP				
	Age - 45 Med	dical Certificat	e - VALID	MEDICAL-WAIV	ERS/LIM	IT
	Biennial Flight Review		t Time (H			
PRIVATE	Current - YES	Total -	732	Last 24 Hi	rs -	8
ME LAND	Months Since - 13	Make/Mode1-	34	Last 30 Da	ays-	11
	Aircraft Type - C-421-B	Instrument-	194	Last 90 Da	ays-	36
	•••	Multi-Eng -	572		•	
Instrument Rating(s) - AIRPLANE						
ME LAND		Make/Model- Instrument-	34 194		a∨s-	_

3/03/89 SAN ANTONIO,TX A/C Reg. No. N5999M Time (Lcl) - 0245 CST File No. - 50 Occurrence #1 OVERRUN Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. LIGHT CONDITION - DARK NIGHT 2. WEATHER CONDITION - LOW CEILING 3. IFR PROCEDURE - NOT FOLLOWED - PILOT IN COMMAND 4. WEATHER CONDITION - OBSCURATION 5. PROPER GLIDEPATH - NOT FOLLOWED - PILOT IN COMMAND 6. PLANNED APPROACH - NOT FOLLOWED - PILOT IN COMMAND 7. GO-AROUND - NOT PERFORMED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN 8. TERRAIN CONDITION - ROUGH/UNEVEN Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 9. OBJECT - APPROACH LIGHT/NAVAID ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE FAILURE OF THE PILOT TO FOLLOW THE PROPER PROCEDURES/DIRECTIVES BY NOT FOLLOWING THE GLIDESLOPE WHICH RESULTED
IN NOT BEING ABLE TO ATTAIN THE PROPER TOUCHDOWN POINT.

File No 83 3/03/89 BASTF	ROP,TX	A/C Reg. No. N7407T			Time (Lcl) - 0015 0			
Basic Information Type Operating Certificate-NONE (GENERA	AL AVIATION)	Aircraft Damage			Injur	ies	·	
	•	SUBSTANTIAL		Fatal	Serious	Minor	None	
Type of Operation -BUSINESS		Fire	Crew	0	0	0	1	
Flight Conducted Under -14 CFR 91	•	NONE	Pass	0	0	0	0	
Accident Occurred During -LANDING								
Aircraft Information		•						
Make/Model - CESSNA 172		lodel - CONTINENTAL			nstalled/A			
Landing Gear - TRICYCLE-FIXED	Number Eng				all Warnin	g System	- YES	
Max Gross Wt - 2200	Engine Typ		NG-CARBURE	TOR				
No. of Seats - 4	Rated Powe	r - 145 HP						
Environment/Operations Information								
Weather Data	Itinerary			Airport F				
Wx Briefing - FSS	Last Depart		•	OFF AIR	PORT/STRIP			
Method - TELEPHONE Completeness - FULL	DALLAS,TX Destination	•		Airport Da	ta.			
Basic Weather - IMC	HARLINGEN	тх :		A II POI COD	· ca			
Wind Dir/Speed- 180/010 KTS	HARLINGEN	, 17		Runway	Ident -	N/A		
Visibility - 5.0 SM	ATC/Airspace					N/A		
Lowest Sky/Clouds - UNK/NR	•	ght Plan - NONE		,	•	N/A		
Lowest Ceiling - 400 FT OVER	RCAST Type of Cle	arance - NONE		Runway	Status -	N/A		
Obstructions to Vision- FOG	Type Apch/L	ndg - FORCED	LANDING					
Precipitation - NONE								
Condition of Light - NIGHT(BRIGHT)) 		· 					
Personnel Information								
Pilot-In-Command	Age - 38				MEDÍCAL-NO	WAIVERS/	_IMIT	
Certificate(s)/Rating(s)	Biennial Flight R			t Time (Ho		11	_	
PRIVATE	Current Months Since		- /Model-	620	Last 24		5	
SE LAND	Months Since Aircraft Type		/Model- rument-		Last 30 Last 90		8 25	
	Aircrait Type	: - C-1/2 Inst	rulleri t -	30	Last 90	Days-	25	
Instrument Rating(s) - NONE								
Narrative								
E NON-INSTRUMENT RATED PILOT RECEIVED TWO W								
O TOWNS WHICH WERE BOTH IFR, THEN TO ANOTHE E ENGINE QUIT DUE TO FUEL EXHAUSTION. DURIN					A TOWN, W	HEN		
E ENGINE OUTLINGE UT EUEL EXHAUSTION TUDIN	NG THE FORCED LANDI	NG RULL THE ATRPLA	ANT RAN IN	III IRFES				

File No. - 83 3/03/89 BASTROP, TX A/C Reg. No. N7407T Time (Lcl) - 0015 CST LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation MANEUVERING Finding(s) 1. WEATHER CONDITION - LOW CEILING 2. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 3. WEATHER CONDITION - FOG 4. FLUID, FUEL - EXHAUSTION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 5. OBJECT - TREE(S) ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PLANNING AND PREPARATION BY THE PILOT WHICH RESULTED IN FUEL EXHAUSTION. CONTRIBUTING TO THE ACCIDENT WERE THE LOW CEILINGS AND FOG.

 Basic Information Type Operating Certificate NONE (GENERAL 	AL AVIATION) Aircra	ft Damage		Injur	ies	
		ANTIAL	Fatal	Serious		None
Type of Operation -PERSONAL	Fire		ew O	0	1	0
Flight Conducted Under -14 CFR 91	NONE	Pa	ass O	0	1	0
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - CESSNA 150J	Eng Make/Model - C			Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines -			tall Warnin	ng System	- YES
Max Gross Wt - 1600	Engine Type - R		BURETOR			
No. of Seats - 2	Rated Power -	100 HP				
-Environment/Operations Information					•	
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING		t	OFF AI	RPORT/STRIP)	
Method - N/A	MALAKOFF, TX		Ainmont D			
Completeness - N/A Basic Weather - VMC	Destination LOCAL		Airport D	ata		
Wind Dir/Speed- 200/012 KTS	LUCAL		Punway	Ident -	N/A	
Visibility - 12.0 SM	ATC/Airspace			Lth/Wid -		
	TERED Type of Flight Plan	- NONE		Surface -		
	Type of Clearance	- NONE			N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LANDING				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 60	Medical Certifi			IVERS/LIM	ΙT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ight Time (H			
PRIVATE	Current - YES	Total -			Hrs - UN	
SE LAND	Months Since - 5				Days- UN	
	Aircraft Type - UNK/N			Last 90		
•		Multi-Eng -	· UNK/NR	ROTORCE	aft - UN	K/NK
Instrument Rating(s) - NONE						
-Narrative						
PILOT DID NOT CHECK THE FUEL TANKS DURING						
L WHEN THE ENGINE SPUTTERED AND QUIT, "INC						
TY, CROSSWINDS CAUGHT THE AIRPLANE AND CAL	JSED IT TO FLIP OVER. ONE G	ALLON OF FUEL WAS	FOUND IN EA	CH WING TAN	IK .	

File No. - 181 4/17/89 ATHENS, TX A/C Reg. No. N50703 Time (Lcl) - 1545 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. FUEL SYSTEM - EXHAUSTION 2. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND -----Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 3. WEATHER CONDITION - CROSSWIND 4. WEATHER CONDITION - GUSTS ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL EXHAUSTION DUE TO INADEQUATE PREFLIGHT BY THE PILOT.

-Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircra	t Damage		Injur	ies	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew	. 0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	NONE	Pass	0	0	0	1
-Aircraft Information						
Make/Model - PIPER PA-24-250	Eng Make/Model - L			Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines -			tall Warnin	g System	- YES
Max Gross Wt - 2800 No. of Seats - 4	Engine Type - R Rated Power -	CIPROCATING-CARBUR 250 HP	EIUK			
NO. OF Seats - 4	Rated Fower -	250 HP				
-Environment/Operations Information Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		•	ON AIR			
Method - N/A	DECATUR, TX		014 711	OK		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		DECATL	R MUNICIPAL		
Wind Dir/Speed- 160/010 KTS					17	
Visibility - 7.0 SM	ATC/Airspace			Lth/Wid -		60
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LANDING				
Precipitation - NONE Condition of Light - DAYLIGHT						
Condition of Eight DateIght						
-Personnel Information Pilot-In-Command	Age - 38	Medical Certifica	+a - VALTE	MEDICAL-NO	WATVEDS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (F		WAIVERS	LIMIT
COMMERCIAL, CFI	Current - YES	Total -		Last 24	Hrs -	2
SE LAND, ME LAND	Months Since - 12	Make/Model-	23	Last 30	Days-	65
	Aircraft Type - C-152			Last 90	Days-	142
		Multi-Eng -	522			
Instrument Rating(s) - AIRPLANE						
-Narrative						
PILOT STATED THAT IMMEDIATELY AFTER TAKEO						
SMOKE UNDER THE COWLING, AND LOTS OF SMOK						
ABLE TO GET THE AIRPLANE ALIGNED WITH THE	PLINWAY FOR THE FORCED LAN	ITNG AFTER THE HAR	DIANDING	THE NOSE G	FΔR	

File No. - 180 5/20/89 DECATUR, TX A/C Reg. No. N5874P Time (Lc1) - 1630 CDT Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. EXHAUST SYSTEM, MUFFLER - FAILURE, PARTIAL 2. MAINTENANCE, INSPECTION OF AIRCRAFT - INADEQUATE - OTHER MAINTENANCE PSNL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 3. EXHAUST SYSTEM, MUFFLER - SMOKE 4. EXHAUST SYSTEM, MUFFLER - OVERTEMPERATURE Occurrence #3 NOSE GEAR COLLAPSED Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. LANDING GEAR, NOSE GEAR - OVERLOAD ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE INSPECTION OF THE EXHAUST SYSTEM BY THE MAINTENANCE PERSONNEL DURING THE LATEST ANNUAL INSPECTION.

			A/C Reg. No. N16733 Time (Lc1) - 1427 MST					
-Basic Information Type Operating Certificate	e-ON-DEMAND AI		ircraft Damage SUBSTANTIAL		Fatal	Injur Serious	ries Minor	None
Type of Operation Flight Conducted Under Accident Occurred During	-OTHER WORK L -14 CFR 91 -LANDING	JSE F	ire NONE	Crew Pass	0 -	0	0	1 0
Make/Model - BELL 206B Landing Gear - HIGH SKID Max Gross Wt - 3200 No. of Seats - 5	111	Eng Make/Mode Number Engine Engine Type Rated Power	1 - ALLISON 250- s - 1 - TURBOSHAFT - 420 HP	-C20B		Installed/A tall Warnir		
 -Environment/Operations Infor								
Weather Data	RD OF BRIEFING	Itinerary G Last Departure SAME AS ACC/				Proximity RPORT/STRIF	•	
Completeness - N/A Basic Weather - VMC		Destination LOCAL	INC		Airport D	ata		-
Lowest Ceiling - Obstructions to Vision-	SM CLEAR NONE NONE	ATC/Airspace Type of Flight Type of Cleara Type Apch/Lndg			Runway Runway	Lth/Wid - Surface -		
•	NONE DAYLIGHT							
-Personnel Information								
Pilot-In-Command Certificate(s)/Rating(s)		Age - 43 Biennial Flight Revi			ite - VALID iht Time (H	MEDICAL-WA	IVERS/LI	MIT
PRIVATE, COMMERCIAL, CF	I		YES Total	_	7404	Last 24	Hrs -	2
SE LAND HELICOPTER		Months Since - Aircraft Type -		/Model- rument-	2663 3	Last 30 Last 90 Rotorcr		33 107 7163
Instrument Rating(s)	- NONE		-					
-Narrative COMMERCIAL PLT FLEW A RESCUE CEDURE THE HELICOPTER SETTLED THE HELICOPTER LEFT THE GROUN T AWAY FROM THE GROUND PERSON H. THE PLT DISCOVERED THE TAI ESTIGATION SHOWED EVIDENCE THE SHAFT HAD SHEARED UNDER APPL) BACKWARDS IN ND, AN UNCOMMA NNEL. AT TOUCH IL ROTOR SHAFT HAT THE TAIL R	NTO LOOSE SNOW. THE PL ANDED RIGHT SPIN BEGAN HDOWN THE TAIL BOOM EN F HAD BROKEN FORWARD O	T ADDED COLLECTI . THE PLT PERFOR TERED DEEP SNOW F THE TAIL ROTOR	IVE PITCH RMED A HO AND THE R GEAR BO	I AND ATTEM VERING AUT ACFT CAME IX. A POST	PTED TO HOV OROTATION 3 TO REST NOS ACCIDENT	SE SE	

Time (Lcl) - 1427 MST A/C Reg. No. N16733 File No. - 150 1/08/89 PARK CITY.UT Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation STANDING - IDLING ROTORS Finding(s) 1. TERRAIN CONDITION - SNOW COVERED 2. TERRAIN CONDITION - UPHILL 3. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND 4. CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND LOSS OF CONTROL - IN FLIGHT Occurrence #2 Phase of Operation HOVER Finding(s) 5. ROTOR DRIVE SYSTEM, TAIL ROTOR DRIVE SHAFT - SHEARED 6. DIRECTIONAL CONTROL - NOT POSSIBLE -Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 7. AUTOROTATION - PERFORMED -----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE SELECTION OF AN UNSUITABLE LANDING SITE BY THE PILOT, RESULTING IN TAIL ROTOR CONTACT WITH THE TERRAIN AND SHEARING OF THE TAIL ROTOR DRIVESHAFT.

File No 123 3/12/89 ROY, L	TL A/C	Time (Lc1) - 2105 MST				
-Basic Information Type Operating Certificate-NONE (GENER)		raft Damage		Injur		
Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	. Fire		Fatal Crew O Pass O	Serious O O	Minor 1 O	None 0 0
-Aircraft Information Make/Model - CESSNA T210L Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3800 No. of Seats - 6	Eng Make/Model - Number Engines -	CONTINENTAL IO-52	20-L ELT S	Installed/A tall Warnin	ctivated	
P-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 150/006 KTS Visibility - 25.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure Po- LAS VEGAS.NV Destination SAME AS ACC/INC ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	an - NONE - NONE - FORCED LANDIN	ON AIR Airport D OGDEN Runway Runway Runway Runway	MUNI Ident Lth/Wid Surface Status	ASPHALT DRY	20
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 56 Biennial Flight Review Current - YES Months Since - 17 Aircraft Type - C-T2	Medical Certif F Total Make/Model	Ficate - VALID Flight Time (H - 2160 I- 2100 t- UNK/NR	MEDICAL-WA lours) Last 24 Last 30 Last 90	IVERS/LIM Hrs - Days-	4 13 32
Instrument Rating(s) - NONE	LOWN FROM OGDEN. UT TO LAS	S VEGAS, NV EARLIE	ER IN THE DAY	& WAS RTRNG		

File No. - 123 3/12/89 ROY,UT A/C Reg. No. N26RS Time (Lcl) - 2105 MST LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Occurrence #1 Phase of Operation APPROACH - VFR PATTERN - DOWNWIND Finding(s) 1. LANDING GEAR - UNDETERMINED 2. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND DIVERTED ATTENTION - PILOT IN COMMAND 4. FLUID, FUEL - EXHAUSTION 5. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 6. LIGHT CONDITION - DARK NIGHT 7. OBJECT - TREE(S) ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT ALLOWED HIMSELF TO BECOME DISTRACTED BY A LANDING GEAR PROBLEM, WHICH RESULTED IN FUEL EXHAUSTION, WHEN HE HAD INSUFFICIENT FUEL TO DELAY HIS LANDING. FACTORS RELATED TO THE ACCIDENT WERE: THE LANDING GEAR PROBLEM AND TREES IN THE EMERGENCY LANDING AREA.

File No 90 4/05/89 PAR	K CITY,UT A/C Re	A/C Reg. No. N16733			Time (Lcl) - 1020 MDT				
Basic Information Type Operating Certificate-ON-DEMAND Name of Carrier -AVMAN, INC Type of Operation -NON SCHED, Flight Conducted Under -14 CFR 135 Accident Occurred During -DESCENT	. SUBSTAN DOMESTIC,PASSENGER Fire			Injuries Serious Mi O O	nor O O	None 1 4			
-Aircraft Information Make/Model - BELL 206B-III Landing Gear - HIGH SKID Max Gross Wt - 3200 No. of Seats - 5	Eng Make/Model - ALL Number Engines - 1 Engine Type - TUR Rated Power -			Installed/Activ tall Warning Sy					
Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 330/020 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	PARK CITY,UT Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance		OFF AI Airport D Runway Runway Runway Runway	Proximity RPORT/STRIP ata Ident - N/A Lth/Wid - N/A Surface - N/A Status - N/A					
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE SEA HELICOPTER	Age - 44 Biennial Flight Review Current - YES Months Since - 3 Aircraft Type - BH-206B	Total - Make/Model-	yht Time (H 7400		s- 4 s- 13	_			
Instrument Rating(s) - NONE	NEAD DADY OF A DELL COS		CDASHED ON						

4/05/89 PARK CITY,UT A/C Reg. No. N16733 File No. - 90 Time (Lcl) - 1020 MDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. TERRAIN CONDITION - DOWNHILL 2. PROPER CLIMB RATE - NOT ATTAINED - PILOT IN COMMAND 3. WEATHER CONDITION - DOWNDRAFT 4. AIRCRAFT PERFORMANCE, CLIMB CAPABILITY - EXCEEDED Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 5. OBJECT - ELECTRICAL TOWER ROLL OVER Occurrence #3 Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 6. MISC ROTORCRAFT, TAIL BOOM - SHEARED ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
AN ENCOUNTER WITH STRONG DOWN-SLOPE WINDS AND GUSTS DURING A CRITIACAL PHASE OF FLIGHT WHICH CAUSED POWER REQUIRED TO
EXCEED POWER AVAILABLE. CONTRIBUTING FACTORS TO THE ACCIDENT WAS THE DOWNHILL TERRAIN AND THE DOWNDRAFT CONDITIONS.

File No 6 1/15/8	ASHLAND, VA		Reg. No. N901ZZ		ime (Lc1)		
Basic Information Type Operating Certificate-ON	-DEMAND ATD TAYT	Aincha	t Damage		Inju	ries	
Type operating certificate on	DEMAND AIR TAXI		ANTIAL	Fatal	•	Minor	None
Type of Operation -PE	RSONAL	Fire	Cre		0	0	1
Flight Conducted Under -14	=	NONE	Pas		o ·	0 .	ò
Accident Occurred During -LAI		NONE	1 43	3 0	Ŭ	Ŭ	Ü
Aircraft Information							
Make/Model - CESSNA 172N			COMING 0-320-2AD		Installed/		
Landing Gear - TRICYCLE-FIXE		umber Engines -			tall Warni	ng System	- YES
Max Gross Wt - 2300		J 7.	CIPROCATING-CARBU	RETOR			
No. of Seats - 4	R	ated Power -	160 HP				
Environment/Operations Informat							
Weather Data		erary		•	Proximity		
Wx Briefing - UNK/NR		st Departure Poin		ON AIR	PORT		
Method - UNK/NR		SAME AS ACC/INC					
Completeness - WEATHER NOT		tination		Airport D			
Basic Weather - VMC		LOCAL			R_COUNTY		
Wind Dir/Speed- CALM						- 34	
Visibility - 10.0 SM		Airspace			Lth/Wid		80
Lowest Sky/Clouds - CLE		pe of Flight Plan			Surface		
Lowest Ceiling - NON		pe of Clearance			Status	- DRY	
Obstructions to Vision- NONI	-	pe Apch/Lndg	- TRAFFIC PATTERN				
Precipitation - NONI			TOUCH AND GO				
Condition of Light - DAYI	.IGHT						
Personnel Information							
Pilot-In-Command	Age -	31	Medical Certific			O WAIVERS/	/LIMIT
Certificate(s)/Rating(s)	Biennial	Flight Review	· Fli	•	ours)		
PRIVATE	Curr		Total -			4 Hrs -	0
SE LAND	Mont	hs Since - 1 raft Type - C-152	Make/Model-	1	Last 3		0
	Airc	raft Type - C-152	Instrument-	1	Last 9	O Days-	25
Instrument Rating(s) - NO	DNE						
IS WAS THE PILOT'S FIRST FLIGHT &	LANDING IN A CESCN	A 172 SINCE HE CH	COVED IN THIS MAVE	AND MODEL	ACET THE	DIT STATE	`
USED FULL FLAPS AND AN APPROACH S							,
PLIED FULL POWER TO MAKE A GO-AROU							
PT RAMP SO THE PLT CUT POWER AND							
TI KAMP SU IME PLI CUI PUWEK AND					OVER WHEN		
E NOSE GEAR COLLAPSED IN SOFT TERF	NATAL THE DIT DEDOG	TED THAT THERE "A	NO MALEUNIOTION O	E THE ACET			

File No. - 6 1/15/89 ASHLAND,VA A/C Reg. No. N901ZZ Time (Lcl) - 1745 EST

Occurrence #1

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING

Finding(s)

- 1. FLARE IMPROPER PILOT IN COMMAND
- 2. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 3. GO-AROUND INITIATED PILOT IN COMMAND
- 4. AIRSPEED INADEQUATE PILOT IN COMMAND
- 5. CLIMB NOT ATTAINED PILOT IN COMMAND

Occurrence #2 NOSE OVER
Phase of Operation LANDING

Finding(s)

- 6. TERRAIN CONDITION SOFT
- 7. LANDING GEAR, NOSE GEAR OVERLOAD
- 8. LANDING GEAR, NOSE GEAR COLLAPSED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL OF THE AIRPLANE DURING LANDING AND THE FAILURE TO ACHIEVE SUFFICIENT AIRSPEED DURING THE GO-AROUND TO INITIATE A CLIMB.

File No 137 3/17/89 CHES	APEAKE, VA	A/C Reg. No. N339RH	Т	ime (Lcl) -	1102 ES	Γ
Type Operation Type of Operation -TEST FLIGHT Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	DE Fir	rcraft Damage ESTROYED re Cre DNE Pas		Injur Serious O O	ies Minor O O	None 1 0
Aircraft Information Make/Model - HALSTEAD SANDPIPER Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1063 No. of Seats - 2	Number Engines	- CONTINENTAL C-75-12 - 1 - RECIPROCATING-CARBU - 75 HP	S	Installed/A		
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed - 230/015 KTS Visibility - 15.0 SM Lowest Sky/Clouds - UNK/NR SCA Lowest Ceiling - NONE Obstructions to Vision - NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary G Last Departure F SAME AS ACC/IN Destination LOCAL ATC/Airspace TTERED Type of Flight F Type of Clearand Type Apch/Lndg	NC Plan - NONE	ON AIR Airport D HAMPTO Runway Runway Runway	ata N ROADS	ASPHALT	40
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 66 Biennial Flight Review Current - YE Months Since - 19 Aircraft Type - C-	ES Total - 9 Make/Model-	ght Time (F 178 O UNK/NR	lours) Last 24 Last 30 Last 90	Hrs -	0 2 2
Instrument Rating(s) - NONE						
Narrative HE ACCIDENT OCCURRED ON THE MAIDEN TEST FLIGO PROBLEMS DURING HIGH SPEED TAXI RUNS. AFTI IRSPEED INCREASED. DURING LANDING, THE ACFT ND DURING CLIMB OUT WAS UNABLE TO DECREASE OF ESIGNED AND BUILT THE ACFT WITH THE EXCEPTION OF THE RUDDERVADOR. THE DESIGN PLANS CALLED OF EVEALED THE RUDDERVADOR HAD BEEN INSTALLED OF IMITING THE PLTS ABILITY TO LOWER THE NOSE OF	ER TAKEOFF THE PLT ENCOU STALLED HIGH AND BOUNCE PITCH TO GAIN AIRSPEED. ON OF THE DAVIS MIXING U FOR 9 DEGS PITCH UP TRAN WITH 12.5 DEGS NOSE UP T	JNTERED PROBLEMS AT SL ED TWICE ON THE RWY. T THE ACFT CRASHED INTO JNIT WHICH CONTROLS PI /EL AND 8 DEGS PITCH D	OW SPEEDS W HE PLT INIT TREES NEAR TCH AND RUD DWN TRAVEL.	HICH DECREA IATED A GO- THE RWY. T DER INPUT INVESTIGAT	SED AS AROUND HE PLT	

File No. - 137 3/17/89 CHESAPEAKE, VA A/C Reg. No. N339RH Time (Lcl) - 1102 EST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation GO-AROUND (VFR) Finding(s) 1. RECOVERY FROM BOUNCED LANDING - IMPROPER - PILOT IN COMMAND 2. FLIGHT CONTROL, RUDDERVATOR - MOVEMENT RESTRICTED 3. MAINTENANCE, INSTALLATION - IMPROPER - PILOT IN COMMAND INADEQUATE CERTIFICATION/APPROVAL, AIRCRAFT - FAA (ORGANIZATION) 4. IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - UNCONTROLLED Finding(s) 5. OBJECT - TREE(S) ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT/BUILDERS IMPROPER INSTALLATION OF THE RUDDERVADOR AND THE PILOT'S IMPROPER RECOVERY FROM A BOUNCED LANDING.
A CONTRIBUTING FACTOR WAS THE FAILURE OF THE FAA TO DETECT THE FLAW DURING THE CERTIFICATION OF THE AIRCRAFT.

File No 29 1/16/89 SEK	IU, WA A/C	A/C Reg. No. N732FN Time (Lc1) - 0945 PST			Т	
Basic Information Type Operating Certificate-NONE (GENE		ft Damage		Injur		
		ANTIAL	Fatal	Serious	Minor	None
Type of Operation -BUSINESS	Fire	Cre		0	1	, 0
Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	NONE	Pas	ss O	0	0	1
Aircraft Information						
Make/Model - CESSNA 206	Eng Make/Model - C	ONTINENTAL IO-520-	L ELT	Installed/A	ctivated	- YES/YES
Landing Gear - AMPHIBIAN	Number Engines -			itall Warnir	ng System	- YES
Max Gross Wt - 3600	Engine Type - R	ECIP≗FUEL INJECTE□)			
No. of Seats - 4	Rated Power -	300 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - FSS	Last Departure Poin	t	ON AIR	STRIP		
Method - TELEPHONE	LAKE STEVENS, WA					
Completeness - UNK/NR	Destination		Airport [ata		
Basic Weather - VMC	NEAH BAY,WA		SEKIU			
Wind Dir/Speed- 260/030 KTS			Runway	/ Ident -	- 26	
Visibility - 5.0 SM	ATC/Airspace		Runway	Lth/Wid -	2980/	35
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan	· - VFR	Runway	Surface -	ASPHALT	
Lowest Ceiling - 8000 FT BR			Runway	/ Status -	WET	
Obstructions to Vision- NONE	Type Apch/Lndg	- STRAIGHT-IN	•			
Precipitation - RAIN	,, , , , , , , , , , , , , , , , , , ,	FULL STOP				
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 55	Medical Certific				
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	F1 ·	ight Time (F	lours)		
PRIVATE	Current - YES	Total -		Last 24		0
SE LAND, SE SEA	Months Since - 20	Make/Model-	375	Last 30	Days-	4
	Aircraft Type - C-206	Instrument-	UNK/NR	Last 30	Days-	9
		Multi-Eng -	UNK/NR	Rotorcr	aft - U	NK/NR
Instrument Rating(s) - NONE						• •
Narrative						
	C ON A DUCTNECE TOTO TO A CO	ACTAL DECTINATION	WHEN STOOM	NITHIDO AND		
					-	
E PLT WAS PASSING THROUGH MOUNTAIN STRAIT						
RBULENCE WERE ENCOUNTERED. THE PLT ELECTE	D TO ATTEMPT AN LANDING AT A	THE ON SHOOT ETNIAL	MINDS MEDI	SO KIE CHE	TING	
	D TO ATTEMPT AN LANDING AT A H AND IT CONTACTED THE TERRA	IN ON SHORT FINAL.	. WINDS WERE	30 KTS GUS	STING	

File No. - 29 1/16/89 SEKIU,WA A/C Reg. No. N732FN Time (Lc1) - 0945 PST

Occurrence #1
Phase of Operation

LOSS OF CONTROL - IN FLIGHT

APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

- 1. WEATHER CONDITION TURBULENCE
- 2. IN-FLIGHT PLANNING/DECISION POOR PILOT IN COMMAND
- SELF-INDUCED PRESSURE PILOT IN COMMAND
- 4. WEATHER CONDITION GUSTS
- 5. FLIGHT INTO KNOWN ADVERSE WEATHER CONTINUED PILOT IN COMMAND
- 6. AIRCRAFT HANDLING NOT POSSIBLE PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT ATTEMPTED A LANDING IN ADVERSE WEATHER CONDITIONS, RATHER THAN POSTPONE THE BUSINESS TRIP AND RETURN TO ORIGIN OR OTHER SAFE AREA. CONTRIBUTING TO THE ACCIDENT WERE TURBULENCE AND GUSTY WINDS ALONG WITH THE SELF INDUCED PRESSURE TO MAKE THE BUSINESS FLT.

Type of Operation -PERSONAL Fire Crew 0 0 0 0 0 Flight Conducted Under -14 CFR 91 NONE Pass 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	File No 45 1/19/89 ARL	INGTON, WA	A/C Reg. No. N9104R Time			Time (Lcl) -	me (Lc1) - 1530 PST		
Type of Operation -PERSONAL Fire Crew O O O O O O Flight Conducted Under -14 CFR 91 NONE Pass O O O O O O O Accident Occurred During -TAXI		RAL AVIATION)	Aircraft D	amage		Injur	ies		
Filight Conducted Under	,, , , , , , , , , , , , , , , , , , , ,				Fatal	-		None	
Accident Occurred During -TAXIAircraft Information Make/Model - CESSNA 180A	Type of Operation -PERSONAL		Fire	Crev	v O			0	
Aircraft Information Make/Model - CESSNA 180A			NONE	Pass	s 0	0	0	Q	
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2650 No. of Seats - 4 Environment/Operations Information Weather Data Wk Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 350/004 KTS Visibility - 75.0 SM Lowest Sky/Clouds - 25000 FT THIN 0VC Dostructions to Vision- NONE Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Centificate(s)/Rating(s) COMMERCIAL STANDARD COMMERCIAL Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 350/004 KTS ATC/Airspace ATC/Airsp									
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2650 No. of Seats - 4	Aircraft Information								
Max Gross Wt - 2650 No. of Seats - 4	•								
No. of Seats - 4 Rated Power - 230 HP Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed - 350/004 KTS Visibility - 75.0 SM Lowest Sky/Clouds - 25000 FT THIN DVC Lowest Sky/Clouds - 25000 FT THIN DVC Destination INDE Destination INDE Destination INDE Lowest Sky/Clouds - 25000 FT THIN DVC Type of Clearance - NONE Runway Ident - UNK/NR Distructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Centificate(s)/Rating(s) COMMERCIAL SE LAND, SE SEA Months Since - UNK/NR Months Since - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR Aircraft Type - UNK/NR Instrument Rating(s) - AIRPLANE Narrative EPLT AITEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND						Stall Warnin	g Syst em	- YES	
Environment/Operations Information Weather Data Wx Briefing - ND RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 350/004 KTS Lowest Sky/Clouds - 25000 FT THIN OVC Obstructions to Vision- NONE Obstructions to Vision- NONE Condition of Light - DAYLIGHT Personnel Information Piot-In-Command Certificate(s)/Rating(s) SE LAND, SE SEA Instrument Rating(s) - AIRPLANE Narrative EPLT AITEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND					RETOR				
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 350/004 KTS Visibility - 75.0 SM Lowest Sky/Clouds - 25000 FT THIN OVC Obstrination - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Commercial Daylight Certificate(s)/Rating(s) Commercial SE LAND, SE SEA Medical Certificate - LAND/NR Months Since - UNK/NR Multi-Eng - UNK/NR Ripport Proximity ON AIRPORT Airport Data Arc/Airspace Runway Ident - UNK/NR Runway Ident - UNK/NR Runway Status - UNK/NR Runway Status - UNK/NR NONE Precipitation - NONE Type Apch/Lndg - NONE Presonnel Information Pilot-In-Command Age - 37 Medical Certificate - EXPIRED Certificate(s)/Rating(s) Current - UNK/NR Total - 1500 Last 24 Hrs - UNK/NR Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days - UNK/NR Aircraft Type - UNK/NR Make/Model - UNK/NR Rotorcraft - UNK/NR Multi-Eng - U	No. of Seats - 4	Rated Po	wer - 23	O HP 					
Wx Briefing - NO RECORD OF BRIEFING Method - N/A SAME AS ACC/INC SAME AS ACC/INC SAME AS ACC/INC Destination Destination Airport Data ARLINGTON MUNICIPAL Runway Ident - UNK/NR ARLINGTON MUNICIPAL Runway Ident - UNK/NR Visibility 75.0 SM ATC/Airspace Runway Lth/Wid - UNK/NR Lowest Sky/Clouds - 25000 FT THIN OVC Type of Flight Plan - NONE Runway Surface - UNK/NR Obstructions to Vision- NONE Type of Clearance - NONE Runway Status - UNK/NR Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Type Apch/Lndg - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - EXPIRED Flight Time (Hours) Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) Commercial Certificate Sight Time (Hours) Commercial Seland, Selan	Environment/Operations Information								
Method - N/A									
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 350/004 KTS Visibility - 75.0 SM Lowest Sky/Clouds - 25000 FT THIN OVC Lowest Ceiling - NONE Lowest Ceiling - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, SE SEA Months Since - UNK/NR Multi-Eng - UNK/NR Multi-Eng - UNK/NR Mothrouse Mary Status - UNK/NR Multi-Eng - UNK/NR Multi-Eng - UNK/NR Mothrouse Medical Certificate - EXPIRED Flight Time (Hours) Total - 1500 Last 24 Hrs - UNK/NR Make/Model - UNK/NR Multi-Eng - UNK/NR Mothrouse Medical Certificate - EXPIRED Flight Time (Hours) Flight Time (Hours) Total - 1500 Last 24 Hrs - UNK/NR Multi-Eng - UNK/NR Multi					ON AIR	RPORT			
Basic Weather - VMC									
Wind Dir/Speed- 350/004 KTS Visibility - 75.0 SM	· · · · · · · · · · · · · · · · · · ·		n		•				
Visibility - 75.0 SM ATC/Airspace Runway Lth/Wid - UNK/NR Lowest Sky/Clouds - 25000 FT THIN OVC Type of Flight Plan - NONE Runway Surface - UNK/NR Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - UNK/NR Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - EXPIRED Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 1500 Last 24 Hrs - UNK/NR SE LAND, SE SEA Months Since - UNK/NR Make/Model - UNK/NR Last 30 Days - UNK/NR Aircraft Type - UNK/NR Instrument - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative IE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND		UNK/NR							
Lowest Sky/Clouds - 25000 FT THIN OVC Type of Flight Plan - NONE Runway Surface - UNK/NR Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - UNK/NR Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE									
Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - UNK/NR Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - EXPIRED Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 1500 Last 24 Hrs - UNK/NR SE LAND, SE SEA 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 Instrument Rating(s) - AIRPLANE Narrative IE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND				0115					
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - EXPIRED Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 1500 Last 24 Hrs - UNK/NR SE LAND, SE SEA 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 Instrument Rating(s) - AIRPLANE Narrative HE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND		IN UVC Type of F	light Plan - N	UNE	-		•		
Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - EXPIRED Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 1500 Last 24 Hrs - UNK/NR SE LAND,SE SEA 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 Instrument Rating(s) - AIRPLANE Narrative BE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND					kunway	Status -	UNK/ NR		
Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command		Type Apch	/Lnag - N	UNE					
Personnel Information Pilot-In-Command Age - 37 Medical Certificate - EXPIRED Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - UNK/NR Total - 1500 Last 24 Hrs - UNK/NR SE LAND, SE SEA 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 Instrument Rating(s) - AIRPLANE Instrument Rating(s) - AIRPLANE Narrative E PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND	•								
Pilot-In-Command Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL CUrrent - UNK/NR SE LAND, SE SEA Months Since - UNK/NR Aircraft Type - UNK/NR Instrument Rating(s) - AIRPLANE Narrative IE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND									
Certificate(s)/Rating(s) COMMERCIAL CURRENT - UNK/NR SE LAND, SE SEA Months Since - UNK/NR Aircraft Type - UNK/NR Instrument Rating(s) - AIRPLANE Narrative IE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND		4 - 07							
COMMERCIAL SE LAND, SE SEA Months Since - UNK/NR Aircraft Type - UNK/NR Instrument Rating(s) - AIRPLANE Narrative E PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND		Age - 3/	Povisi	dical Certifica	ate - EXPII	KED			
SE LAND, SE SEA 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 Instrument Rating(s) - AIRPLANE Narrative BE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND		Curpent	- UNIC /ND	Total -			Unc - UNI	Z/ND	
Aircraft Type - UNK/NR Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE Narrative BE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND		Months Sinc	e - IMK/ND	Make/Model = 1					
Instrument Rating(s) - AIRPLANENarrative HE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND	JE EMND, JE JEM				INK /NR	last 90	Days UN	C/NR	
Instrument Rating(s) - AIRPLANE		Andraitry	po orany rank	Multi-Fng - I	INK/NR	Rotorer	aft - IINI	C/NR	
Narrative HE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND				March Eng	ordiny rein	NO COT CIT	a		
IE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND	Instrument Rating(s) - AIRPLANE								
HE PLT ATTEMPTED TO HAND-PROP THE ENG WITH THE ACFT UNSECURED AND NO ONE AT THE CONTROLS. THE ACFT MOVED AWAY AND	·Narrative								
		THE ACFT UNSECURE	D AND NO ONF A	T THE CONTROLS	. THE ACET	MOVED AWAY	AND		
							· • · • • • • • • • • • • • • • • • • •		

.ANEOUS/OTHER NG - STARTING ENGINE(S)		
UND COLLISION WITH OBJECT		
_	PROPER - PILOT IN COMMAND INE(S) RUNNING UND COLLISION WITH OBJECT	INE(S) RUNNING UND COLLISION WITH OBJECT

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT ATTEMPTED TO HAND-PROP THE ENGINE WITHOUT PROPERLY SECURING IT.

File No 59 1/22/89 1	PORT TOWNSEND, WA	A/C Reg.	No. N2582F		Гіме (Lcl) -	1300 PST	
Basic Information Type Operating Certificate-OTHER LA	ARGE AIRCRAFT	Aircraft Da	amage		Injur	ies	
		SUBSTANTIA		Fatal	Serious	Minor	None
Type of Operation -PERSONAI		Fire	Cre	_	0	0	1
Flight Conducted Under -14 CFR 9	91	NONE	Pas	ss 0	Ο	0	1
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - CHAMPION 7ECA		e/Model - LYCOMI			,		
Landing Gear - TAILWHEEL-ALL FIXE		Engines - 1			Stall Warnin	g System	- NO
Max Gross Wt - 1650		Type - RECIPE		JRETOR			
No. of Seats - 2	Rated Po	ower - 150) HP 				
Environment/Operations Information			-				
Weather Data Wx Briefing - NO RECORD OF BRIE	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIE	FING Last Depa	arture Point		ON AI	RPORT		
Method - N/A		S ACC/INC					
Completeness - N/A	Destinatio	on		Airport [)ata		
Basic Weather - VMC	LOCAL			_			
Wind Dir/Speed- 260/004 KTS	ATC / A = =====				/ Ident -		00
Visibility - 20.0 SM Lowest Sky/Clouds - 600 FT	ATC/Airspac		NIE		Lth/Wid -		
Lowest Sky/Clouds - 600 FI Lowest Ceiling - NONE		-light Plan - Nu Clearance - NO			/ Surface - / Status -	WET	KF
Obstructions to Vision- NONE		n/Lndg - TR			/ Status -	WEI	
Precipitation - NONE	туре арст		ILL STOP	V			
Condition of Light - DAYLIGHT		, ,	ILL STOP				
		- -					
Personnel Information Pilot-In-Command	100	Maa	lical Cambifia	LIAUZ /A	in.		
Certificate(s)/Rating(s)	Age - 40 Biennial Flight		lical Certific	ight Time (F			
PRIVATE			_			Hrs - UN	Z/ND
SE LAND	Months Sind	- YES ce - 6 ype - PA-18	Make/Model-	128	Last 20		
OF EVIAN	Aircraft T	/pe - PA-18	Instrument-	2	Last 30 Last 90	Days - IINI	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Multi-Eng -	UNK/NR	Rotorcr	aft - UN	
			-	,			,
Instrument Rating(s) - NONE							
Narrative	-						
E PLT SIDE-SLIPPED THE AIRPLANE DURING	THE LANDING APPROACH	H. A SINK RATE F	FVELOPED WHIC	H THE PLT V	AS UNABLE TO	n	
REST WITH POWER AND FLARE. THE AIRPLANE		52			5	_	
· - · - · · · · · · · · · · · · · · · ·	-						

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER APPROACH AND FLARE TECHNIQUE ON THE PART OF THE PILOT, RESULTING IN A HARD LANDING. CONTRIBUTING TO THE ACCIDENT WERE TALL TREES SURROUNDING THE AIRSTRIP.

Basic Information								
Type Operating Certificate-NONE (G	ENERAL AVIATION)	Aircraft I	_			•	ries	
T		SUBSTANT			Fatal	Serious		None
Type of Operation -PERSONA		Fire	_	rew	0	0	0	1
Flight Conducted Under -14 CFR Accident Occurred During -LANDING		NONE	۲	ass	O	O	Ü	O
Accident occurred but mg LANDING								
Aircraft Information		/w			.			VEC /V
Make/Model - CESSNA 152		/Model - LYCO	MING 0-235-L2	:C				
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670		ngines - 1 ype - RECII		PUDETO		tali warni	ng System	- 4F2
No. of Seats - 2	Rated Po			BUKETU	₹			
No. 3eat3 2	Rated FO	wei ''						
Environment/Operations Information								
Weather Data	Itinerary			Α.		Proximity		
Wx Briefing - NO RECORD OF BRI		rture Point	**************************************		ON AIR	PORT		
Method - N/A	SPANAWA	•						
Completeness - N/A	Destinatio			Alr	port D			
Basic Weather - VMC	SAME AS	ACC/INC				COUNTY.	- 17	
Wind Dir/Speed- 260/004 KTS Visibility - 30.0 SM	ATC/Airspac	•				Ident Lth/Wid		45
Lowest Sky/Clouds - 10000 FT			NONE			Surface		40
Lowest Sky/Crodds 10000 11		learance - !					- DRY	
Obstructions to Vision- NONE		/Lnda -			,,,,,,	012122		
Precipitation - NONE	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,						
Condition of Light - DAYLIGHT								
Personnel Information								
Pilot-In-Command	Age - 37	Me	edical Certif	icate -	- VALID	MEDICAL-N	O WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	F	light 1	Time (H	ours)		
STUDENT	Current	- N/A	Total				4 Hrs - Ul	
	Months Sinc		Make/Model		18	Last 3	O Days- U	NK/NR
	Aircraft Ty	pe - N/A	Instrument		2	Last 9	O Days-	. 3
			Multi-Eng	- UNK/I	NR	Rotorc	raft - UN	NK/NR
Instrument Rating(s) - NONE							 .	
Narrative	04011 TO 4 TOUGH 1995 0	O LANDINO	EN BOWER WAS	TNODE	יבט בסי	THE TAKES		
STUDENT PILOT MADE A FAST, FLAT APPR	UACH IU A IUUCH AND G	U LANDING. WH	EN PUWER WAS	INCKEAS	SED FUK	INE TAKEU	ГГ.	

Time (Lcl) - 1630 PST File No. - 20 1/25/89 PUYALLUP, WA A/C Reg. No. N49104 Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF Finding(s) 1. TOUCH-AND-GO - PERFORMED - PILOT IN COMMAND 2. FLARE - IMPROPER - PILOT IN COMMAND 3. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 4. LACK OF RECENT EXPERIENCE - PILOT IN COMMAND 5. GROUND LOOP/SWERVE Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE ON THE PART OF THE STUDENT PILOT TO MAINTAIN DIRECTIONAL CONTROL OF THE AIRCRAFT. CONTRIBUTING TO THE ACCIDENT WERE POOR APPROACH AND FLARE TECHNIQUE AND LACK OF RECENT EXPERIENCE.

----Probable Cause----

File No 21 1/30/89	N. BONNEVILLE, WA	A/C Reg. No.	N3254Y	Time (Lcl)	- 1630 PST	
Basic Information Type Operating Certificate-NONE (6	GENERAL AVIATION)	Aircraft Damag		Injur		
		SUBSTANTIAL		tal Serious	Minor	None
Type of Operation -PERSONA		Fire	Crew	0 0	0	1
Flight Conducted Under -14 CFR		NONE	Pass	0 0	0	0
Accident Occurred During -LANDING	ì 					
Aircraft Information						
Make/Model - CESSNA 182	Eng Make,	Model - CONTINENT	AL 0-470-L	ELT Installed/A	ctivated	- YES/NO
Landing Gear - TRICYCLE-FIXED	Number Er	ngines - 1		Stall Warnir	na System	- YES
Max Gross Wt - 2550	Engine Ty	pe - RECIPROCA	TING-CARBURETOR		J	
No. of Seats - 4	Rated Po					
Environment/Operations Information						
Weather Data	Itinerary		Air	port Proximity		
Wx Briefing - NO RECORD OF BRI		rture Point		FF AIRPORT/STRIF)	
Method - N/A	ONTARIO		0.			
Completeness - N/A	Destination	•	Airno	ort Data		
Basic Weather - VMC	YELM, WA	•	Allpo	or c baca		
Wind Dir/Speed- 230/015 KTS	TEEM, WA		Di	unway Ident -	N/A	
Visibility - 20.0 SM	ATC/Airspace			unway Ident unway Lth/Wid -		
Lowest Sky/Clouds - UNK/NR	•	light Plan - NONE		unway Ethywrd unway Surface -	•	
		learance - NONE		•	N/A	
Obstructions to Vision- NONE		Lndg - FORCE		anway Status	N/A	
	Type Apch	Lindy - FURCEI	J LANDING			
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 41		l Certificate - \) WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight		Flight Tim	me (Hours)		
PRIVATE	Current	. – –	tal - 420	Last 24	∤ Hrs - UN	K/NR
SE LAND	Months Since		ke/Model- 12	Last 30) Days- UN	K/NR
	Aircraft Typ		strument- 26	Last 24 Last 30 Last 90 Rotorcr) Days- UN	K/NR
		M u '	lti-Eng - UNK/NR	Rotorc	aft - UN	K/NR
Instrument Rating(s) - AIRPLA	NE					
- 						
Narrative						
E PLT PURCHASED THE ACFT AND OBTAINED	A FERRY PERMIT (DELING	QUENT ANNUAL). AFT	ER THE FIRST STOP	P, THE PLT EXPER	RIENCED	
FFICULTY STARTING THE ENG. THE ENG WOL	ILD START THEN DIE ON	HROTTLE APPLICATION	ON. A MECHANIC AD	VISED THE PLT 1	HAT THE	
RB HEAT WAS IN NEED OF AN OVERHAUL. DL						
RB HEAT. THE PLT LATER NOTED THE CARB						
TEMPTED TO RESTART THE ENG AND THE ENG						
ISLAND. THE ACFT TOUCHED DOWN 100 FT						
UNDUE WEAR/TEAR: HOWEVER, INSPECTION				STICHED NO MICCIT I	ATLONE	
SINDOL WEAR, HOWEVER, INSPECTION	TATELD TO KEVEAL IF IT	IL CARD WAS SET WI	THEN SECO.			

1/30/89 N. BONNEVILLE, WA File No. - 21 A/C Reg. No. N3254Y Time (Lcl) - 1630 PST Occurrence #1 LOSS OF ENGINE POWER Phase of Operation CRUISE Finding(s) 1. WEATHER CONDITION - CLOUDS 2. FUEL SYSTEM, CARBURETOR - ERRATIC Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY UNDERSHOOT Occurrence #3 Phase of Operation LANDING Finding(s) 3. WEATHER CONDITION - HIGH WIND 4. PLANNED APPROACH - MISJUDGED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: SOME FORM OF CARBURETOR MALFUNCTION OR FAILURE WHICH RESULTED IN A LOSS OF ENGINE POWER. CONTRIBUTING TO THE ACCIDENT WAS THE PLANNED FORCED LANDING APPROACH BY THE PLT WHICH RESULTED IN THE AIRPLANE LANDING SHORT OF THE DESIRED LANDING SITE.

-Basic Information Type Operating Certifica	ate-ON-DEMAND AIR	TAXI	Aircraft	Damage			Inju	ries	
Name of Carrier	- DICHADDSON AV	TATION	SUBSTAN			Fatal	Serious	Minor	None
Type of Operation		ESTIC,CARGO	Fire		Crew	0	0	0	1
Flight Conducted Under Accident Occurred During			NONE		Pass	0	0	0	0
-Aircraft Information									
Make/Model - MITSUBIS	SHI M U-2B-35J	Eng Make,	/Model - GAR	RETT TPE-331-	6	ELT	Installed/	Activated	- YES/N
Landing Gear - TRICYCLE	-RETRACTABLE		ngines - 2			. S	tall Warniı	ng System	- YES
Max Gross Wt - 10800		Engine Ty	/pe - TUR	BOPROP					
No. of Seats - 2		Rated Pov	ver -	715 HP					
-Environment/Operations Inf	ormation								
Weather Data		Itinerary					Proximity		
Wx Briefing - FSS		•	rture Point			ON AIR	PORT		
Method - TELEPH	IONE	SEATTLE	•						
Completeness - FULL		Destination				Airport Da			
Basic Weather - IMC		SAME AS	ACC/INC				E INT'L		
Wind Dir/Speed- 040/01								- 03	
Visibility - 2.5		ATC/Airspace			•		Lth/Wid		150
Lowest Sky/Clouds -			light Plan -				Surface		
	900 FT OBSCU					Runway	Status	- ICE COV	
Obstructions to Vision		Type Apch/	'Lndg -	ILS-COMPLETE				SNOW - I	DRY
•	- NONE			FULL STOP					
Condition of Light	- DAWN								
-Personnel Information				Markin 1 0	6		MEDIOA: N		/
Pilot-In-Command		Age - 44		Medical Certi				J WAIVERS	LIMII
Certificate(s)/Rating(s ATP,CFI	, ,	Biennial Flight Current	- YES	Total		nt Time (H	•	1 11	4
AIP (.F.I		Months Since		Make/Mode			Last 24	Hrs -	4
		Aircraft Typ		•			Last 30		92
SE LAND, ME LAND		Aircraft lyp	oe - MU-2B	Instrumen					240
									^
				Multi-Eng	-	4470	Rotorci	raft -	0

File No. - 103 2/17/89 SPOKANE, WA A/C Reg. No. N54US Time (Lcl) - 0713 PST

Occurrence #1 Phase of Operation LANDING - ROLL

ON GROUND COLLISION WITH OBJECT

Finding(s)

- 1. LIGHT CONDITION DAWN
- 2. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION SNOW COVERED
- 3. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION ICY
- 4. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 5. OBJECT RUNWAY LIGHT
- 6. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE PILOT TO MAINTAIN DIRECTIONAL CONTROL AND RUNWAY ALIGNMENT DURING THE LANDING ROLL. FACTORS RELATED TO THE ACCIDENT WERE: LIGHT CONDITIONS AT DAWN, SNOW AND ICE ON THE RUNWAY, AND THE RUNWAY LIGHTS.

File No 44 3/12/	89 SEABECK, WA	A/C Reg	J. No. N3576W	Т	ime (Lcl) -	1440 PS	ST
-Basic Information							
Type Operating Certificate-N	ONE (GENERAL AVIATION)				Injur		
		SUBSTANT		Fatal		Minor	None
Type of Operation -P		Fire		ew O	0	0	1
Flight Conducted Under -1		NONE	· Pa	ss 0	0	0	3
Accident Occurred During -L	ANDING						
-Aircraft Information							
Make/Model - PIPER PA-32	Eng	Make/Model - LYCC	MING 0-540	ELT	Installed/A	ctivated	d - YES/N
Landing Gear - TRICYCLE-FIX	ED Nun	ber Engines - 1		S	tall Warnin	ig Syster	n - YES
Max Gross Wt - 3400		ine Type - RECI		URETOR			
No. of Seats - 6	Rat	ed Power - 2	160 HP				
-Environment/Operations Informa	tion					· ·	
Weather Data	Itiner	ary		Airport	Proximity		
Wx Briefing - NWS	Last	Departure Point		OFF AI	RPORT/STRIP		
Method - UNK/NR	SE	QUIM VALLEY,WA					
Completeness - UNK/NR	Desti	nation		Airport D	ata		
Basic Weather - VMC	BR	EMERTON, WA					
Wind Dir/Speed- 260/013 KT						N/A	
Visibility - 2.000 S	•	rspace			Lth/Wid -		
Lowest Sky/Clouds - 1					Surface -		
		of Clearance -			Status -	N/A	
Obstructions to Vision- NO		Apch/Lndg -	FORCED LANDING				
Precipitation - NO					•		
Condition of Light - DA	YLIGHI 						
-Personnel Information							
Pilot-In-Command	Age -		ledical Certifi			WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>		light Review	Fl	ight Time (H			
PRIVATE, COMMERCIAL	Currer		Total -		Last 24		
SE LAND	Months	Since - 8	Make/Model- Instrument-	9	Last 30	Days- L	INK/NR
GLIDER	Aircra	ft Type - BE-035	Instrument-	2	Last 90	Days- L	NK/NR
			Multi-Eng -	UNK/NR	Rotorcr	aft - l	INK/NR
Instrument Rating(s) -	NONE						
-Narrative							
PLT MADE A FORCED LANDING ON A	DOCKY REACH AFTED THE	ENGINE LOST POWER	DUDING COUTSE	FIT OVED WA	TED THE !E	FT	
DING GEAR COLLAPSED DURING THE							
	- INVESTIGATION	NETERLED THAT ORA		LD A LATIGOL	. ATLONE AT		
HOURS SINCE OVERHAUL.							

File No	44 3/12/89 SEABECK,WA	A/C Reg. No. N3576W	Time (Lc1) - 1440 PST
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWER(TOTAL) - MECH FA	ILURE/MALF	
Finding(s) 1. ENGINE ASSEMBLY	,CRANKSHAFT - FATIGUE	· ·	
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
Occurrence #3 Phase of Operation	MAIN GEAR COLLAPSED LANDING - ROLL		
Finding(s) 2. TERRAIN CONDITI 3. LANDING GEAR,MA	ON - NONE SUITABLE IN GEAR - OVERLOAD		
Probable Cause			·

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
A FATIGUE FAILURE OF THE ENGINE CRANKSHAFT. CONTRIBUTING TO THE ACCIDENT WAS THE LACK OF SUITABLE LANDING AREA.

Basic Information Type Operating Certificate-NONE (GE	NERAL AVIATION)	Aircraft Damag	ge		Injur		
		SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -PERSONAL		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 9 Accident Occurred During -LANDING		NONE	Pass	0	0	O	1
Aircraft Information							
Make/Model - CESSNA TU206		e/Model - CONTINENT	TAL TSI0-520-		Installed/A		
Landing Gear - FLOAT		ngines - 1		· S	tall Warning	g System ·	- YES
Max Gross Wt - 3616	Engine T						
No. of Seats - 6	Rated Po	ower - 310 HF) 				
Environment/Operations Information					D		
Weather Data	Itinerary	t			Proximity		
Wx Briefing - NO RECORD OF BRIE Method - N/A	ring Last Depa RENTON.	arture Point		UFF AI	RPORT/STRIP		
Completeness - N/A	Destination,			Airport D	2+2		
Basic Weather - VMC	LOCAL	21.1		•	TINE BAY		
Wind Dir/Speed- CALM	EGGAE					N/A	
Visibility - 20.0 SM	ATC/Airspac	ee.			Lth/Wid -	•	
Lowest Sky/Clouds - N/A		Flight Plan - NONE			Surface -		
Lowest Ceiling - 4000 FT		Clearance - NONE	•			WATER-CAT	LM
Obstructions to Vision- NONE	Type Apch	n/Lndg - FULL	STOP	•			
Precipitation - NONE		_					
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 39		al Certificat			WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight			t Time (H 384	*	I I man	_
PRIVATE	Current Months Sind		otal - ake/Model-		Last 24 Last 30	_	0
SE LAND, SE SEA	Aircraft Ty		nstrument-	318 2	Last 90		0
	Aircraft ly		ulti-Eng -	0	Rotorcra		0
		INIC	arti-Liig -	O	ROTOTCH	ait	O
Instrument Rating(s) - NONE							
Narrative							
PLT WAS ON HIS 1ST FLT IN 90 DAYS. HE	STATED THAT WHILE C	N AN APCH FOR A WA	ATER LNDG, HE	WAS FOCU	SING ON THE		
H TO GUAGE HIS DISTANCE FROM THE SHOR							
BOUNCED HIGH & CONTACTED THE WATER A							

File No. - 108 3/18/89 ANACORTES, WA A/C Reg. No. N7551Z Time (Lc1) - 1335 PST Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. FLARE - IMPROPER - PILOT IN COMMAND DIVERTED ATTENTION - PILOT IN COMMAND LACK OF RECENT EXPERIENCE - PILOT IN COMMAND Occurrence #2 OTHER GEAR COLLAPSED Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. LANDING GEAR, FLOAT ASSEMBLY - OVERLOAD Occurrence #3 NOSE OVER Phase of Operation LANDING ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT DIVERTED HIS ATTENTION DURING THE LANDING, WHICH RESULTED IN AN IMPROPER FLARE & HARD LANDING. HIS LACK OF RECENT FLYING EXPERIENCE WAS A RELATED FACTOR.

File No 46 3	/25/89	ROSALIA, WA	A/C R	eg. No. N8792H	1	ime (Lcl) -	0915 PS	Т
Basic Information Type Operating Certifica	te-AGRICUI	TURAL AIRC	RAFT Aircraf	t Damage		Injur	ies	
,, ,			SUBSTA		Fatal	Serious	Minor	None
Type of Operation	-AERIAL	APPLICATIO	N Fire	Cr	ew O	0	0	1
Flight Conducted Under			NONE	Pa	ss 0	0	0	0
Accident Occurred During	-LANDING	ì 						
Aircraft Information								
Make/Model - GRUMMAN/			Eng Make/Model - P&			Installed/A		
Landing Gear - TAILWHEE	L-ALL FIXE	D	Number Engines - 1			tall Warnin	g System	- YES
Max Gross Wt - 5200				CIPROCATING-CARB	URETOR			
No. of Seats - 1		. 	Rated Power -	600 HP				
Environment/Operations Inf	ormation-							
Weather Data	0 00 05 00		Itinerary			Proximity		
<u> </u>	ORD OF BR	EFING	Last Departure Point		OFF AI	RPORT/STRIP		
Method - N/A Completeness - N/A			SAME AS ACC/INC Destination		Ainmont F	10+0		
Basic Weather - VMC			LOCAL		Airport [ala		
Wind Dir/Speed- 135/00	6 KTS		LOCAL		Runway	Ident -	N/A	
Visibility - 10.0			ATC/Airspace				N/A	
Lowest Sky/Clouds -			Type of Flight Plan	- NONE		Surface -	•	
Lowest Ceiling -		OVERCAST					N/A	
Obstructions to Vision	- NONE			- FORCED LANDING				
Precipitation					•			
Condition of Light	- DAYLIGHT	· ·						
Personnel Information								
Pilot-In-Command		Age		Medical Certifi			WAIVERS,	/LIMIT
Certificate(s)/Rating(s)		nial Flight Review		ight Time (F			(1.15
COMMERCIAL			Current - YES Months Since - 13	Total -			Hrs - Ul Days- Ul	
SE LAND				Make/Model- Instrument-		Last 30 Last 90		
			Aircraft Type - C-182	Multi-Eng -			aft - U	
				MUTET ENG -	UNK/NK	ROTOFCE	art - Ui	NK/ NK
Instrument Rating(s)	- NONE							
Narrative								
PLT EXPERIENCED A PWR LOSS	ON TAKEOR	F AND JETT	TSONED THE LOAD A FOR	CED LANDING WAS	MADE IN A PI	OWED FIELD	DURTNG	
H THE ACFT NOSED OVER. INV						, 1220		

File No. - 46 3/25/89 ROSALIA, WA A/C Reg. No. N8792H Time (Lcl) - 0915 PST Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. ENGINE ASSEMBLY, BLOWER/IMPELLER - FAILURE, TOTAL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 2. PRECAUTIONARY LANDING - INITIATED - PILOT IN COMMAND Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 3. TERRAIN CONDITION - SOFT The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A LOSS OF ENGINE POWER DUE TO A SUPERCHARGER FAILURE. CONTRIBUTING TO THE ACCIDENT WAS THE SOFT TERRAIN ON WHICH THE FORCED LANDING WAS MADE.

Basic Information Type Operating Certificate-NONE (GENERA)	L AVIATION) Aircra	ft Damage		Injur	ies	
·) - - - - - - - - -	DESTRO		Fatal	Serious		None
Type of Operation -MAINT TEST	Fire	Cre	w O	0	0	2
Flight Conducted Under -14 CFR 91	ON GRO	DUND Pas	s 0	0	0	0
Accident Occurred During -TAKEOFF						
Aircraft Information						
Make/Model - BEECH A55	Eng Make/Model - Co					- YES-UNK/
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 2			tall Warnir	ıg System	- YES
Max Gross Wt - 4880		CIP-FUEL INJECTED				
No. of Seats - 6	Rated Power -	260 HP				
Environment/Operations Information						
Weather Data	Itinerary		•	Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Poing SAME AS ACC/INC	t	ON AIR	PURT		
Completeness - N/A	Destination		Airport D			
Basic Weather - VMC	EVERETT, WA		ARLING			
Wind Dir/Speed- CALM	EVEREIT, WA				16	
Visibility - 7.0 SM	ATC/Airspace			Lth/Wid -		100
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- TOUCH AND GO				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 43	Medical Certific			WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review		ght Time (H			
ATP, CFI, MILITARY	Current - YES	Total -		Last 24		0
SE LAND, ME LAND	Months Since - 7	Make/Model-		Last 30		56
HELICOPTER	Aircraft Type - U-21					
		Multi-Eng -	600	Rotorcr	aft -	8200
Instrument Rating(s) - AIRPLANE,HE	LICOPTER					
HELICOPTER Instrument Rating(s) - AIRPLANE,HEINarrative HE OWNER (AN EXPERIENCE PLT) ACCOMPANIED THE	PLT-IN-COMMAND (PIC) TO AS	Instrument- Multi-Eng - SSIST IN A MAINTEN HE LANDING GEAR HA	600 ANCE TEST F		aft -	84 8200

File No 1	27 4/19/89	ARLINGTON, WA	A/C Reg. No. N6866Q	Time (Lcl) - 1810 PDT
Occurrence #1 Phase of Operation	GEAR COLLAPSED TAKEOFF - GROUND	RUN		
Finding(s) 1. GEAR RETRACTION	- PREMATURE - COP	ILOT/SECOND PILOT		<u> </u>
Occurrence #2 Phase of Operation	FIRE OTHER			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A PREMATURE/IMPROPER RETRACTION OF THE LANDING GEAR BY THE SECOND PILOT (AIRCRAFT OWNER), WHO WAS OCCUPYING THE RIGHT FRONT SEAT.

	ANWOOD, WA A/C I	Reg. No. N4409D 		ime (Lcl) - 		
-Basic Information	TRAL AVIATION)	Ct. Dawana		T		
Type Operating Certificate-NONE (GENE		ft Damage	C-4-1	Injur		
Type of Operation -PERSONAL		ANTIAL	Fatal O	Serious O	Minor O	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crew	•	0	0	1
Accident Occurred During -LANDING	NUNE	Pass	O	O	U	
Advance A. Turcum and the						
-Aircraft Information	VED Eng Mala (Masta)	17/11/14 4000	E. T.	T+-111/4		NO N
Make/Model - DONNER/PARTON AVID FL				Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines -	ı ECIPROCATING-CARBUR		tall Warnir	ig System	- NU
Max Gross Wt - 764	9 7,		ETUR			
No. of Seats - 2	Rated Power -	43 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFI		t	OFF AI	RPORT/STRIF	•	
Method - N/A	ARLINGTON, WA					
Completeness - N/A	Destination	•	Airport Da	ata		
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- 135/010 KTS					N/A	
Visibility - 15.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - 3000 FT SC	CATTERED Type of Flight Plan	- NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance Type Apch/Lndg	- NONE	Runway	Status -	· N/A	
	Type Apch/Lndg	- FORCED LANDING				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 52		te - VALID	MEDICAL-NO) WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (Ho			
	Current - YES				Hrs - U	
COMMERCIAL	Months Cines 40	Make/Model-	30	Last 30) Da∨s-	5
COMMERCIAL SE LAND,ME LAND,SE SEA	Months Since - 18					_
	Aircraft Type - 7AC	Instrument-	13	Last 90		6
			13			

File No. - 126 4/20/89 STANWOOD, WA A/C Reg. No. N4409D Time (Lc1) - 0930 PDT Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Phase of Operation CRUISE - NORMAL Finding(s) 1. IGNITION SYSTEM, IGNITION LEAD - DISCONNECTED Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE OVER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 2. TERRAIN CONDITION - SOFT

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN IGNITION LEAD BECAME DISCONNECTED FROM ONE CYLINDER, WHICH RESULTED IN A PARTIAL POWER LOSS. A FACTOR RELATED TO THE ACCIDENT WAS: SOFT TERRAIN IN THE TOUCHDOWN AREA.

----Probable Cause----

Type Operating Certificate-NONE (GENERA	•	aft Damage			•	ries	
T		TANTIAL	_	Fatal	Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire	•	Crew	0	0	0	1
Accident Occurred During -LANDING	NONE		Pass	0	0	0	1
Aircraft Information							
Make/Model - CESSNA 172	Eng Make/Model - (0-300-D				- YES-UNK/
Landing Gear - TRICYCLE-FIXED	Number Engines -				Stall Warni	ng System	- YES
Max Gross Wt - 2300		RECIPROCATIN	NG-CARBURE	TOR			
No. of Seats - 4	Rated Power -	145 HP					
Environment/Operations Information Weather Data	Itinerary			Ainnont	Proximity		
Wx Briefing - PATWAS	Last Departure Poi	n+		•	RPORT/STRI	P	
Method - TELEPHONE	SEATTLE, WA	10		011 42	iki oki, siki	•	
Completeness - WEATHER NOT PERTINENT				Airport [Data		
Basic Weather - VMC	LOCAL			LYNDEN	١		
Wind Dir/Speed- 270/005 KTS						- 25	
Visibility - 25.0 SM	ATC/Airspace				/ Lth/Wid		40
Lowest Sky/Clouds - CLEAR	Type of Flight Pla				/ Surface		
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance Type Apch/Lndg		ND.	Runway	/ Status	- DRY	
Precipitation - NONE	Type Apch/Lndg	- GU ARUUN	ND.		-		
Condition of Light - DAYLIGHT							
Personnel Information							
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 61 Biennial Flight Review	Medical (te - VALIO nt Time (H	MEDICAL-N Hours)	O WAIVERS	'LIMIT
PRIVATE	Current - YES		1 -	812		4 Hrs -	0
SE LAND	Months Since - 9		/Model-		Last 3		9
	Aircraft Type - C-17:		rument-	57	Last 9	O Days-	9
		MUIT	i-Eng -	0	Rotoro	raft -	0
Instrument Rating(s) - NONE							
Narrative							
FINAL APCH TO LAND, THE PLT STAYED HIGH TO	AVOID TREES & WIRES & THE	ACET TOUCH	HED DOWN I	ONG AFTE	R APPLYTNA		

File No. - 128 5/04/89 LYNDEN, WA A/C Reg. No. N6064R Time (Lc1) - 1430 PDT

Occurrence #1
Phase of Operation

IN FLIGHT COLLISION WITH OBJECT LANDING - ABORTED

Finding(s)

- 1. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 2. PROPER TOUCHDOWN POINT NOT ATTAINED PILOT IN COMMAND
- 3. ABORTED LANDING DELAYED PILOT IN COMMAND
- 4. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 5. STALL/MUSH
- OBJECT TREE(S)
- 7. OBJECT FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT DELAYED IN ABORTING THE LANDING AND FAILED OBTAIN OR MAINTAIN SUFFICIENT AIRSPEED TO KEEP THE AIRCRAFT FROM MUSHING AFTER LIFT-OFF. FACTORS RELATED TO THE ACCIDENT WERE: OBSTRUCTIONS NEAR THE APPROACH END OF THE RUNWAY, FAILURE OF THE PILOT TO ATTAIN THE PROPER TOUCHDOWN POINT, AND THE TREE AND FENCE NEAR THE DEPARTURE END OF THE RUNWAY.

AL AVIATION) Aircraf					
AL AVIATION) Aircraf					
	t Damage		Injur		
SUBSTAI		Fatal			None
					1
NONE	Pass	. 0	0	O	0
			Stall Warnin	g System	- YES
		RETOR			
Rated Power -	112 HP				
Itinerary					
		ON AI	RSTRIP		
		•			
		•			
LOCAL			-		
					IRF
		Runway	/ Status -	DRY	
Type Apch/Lndg	- FULL STOP				
Age - 57	Medical Certifica			IVERS/LIM	IIT
Biennial Flight Review	Fliç				
Current - YES	Total -				
Months Since - 23	Make/Model-	228	Last 30	Days-	
Aircraft Type - PA-38	Instrument-	3	Last 90	Days-	21
	Multi-Eng - l	JNK/NR	Rotorcr	aft - UN	IK/NR
	Eng Make/Model - LYG Number Engines - 1 Engine Type - REG Rated Power - Itinerary G Last Departure Point OLYMPIA, WA Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg Age - 57 Biennial Flight Review Current - YES Months Since - 23	Eng Make/Model - LYCOMING 0-235-L2A Number Engines - 1 Engine Type - RECIPROCATING-CARBUR Rated Power - 112 HP Itinerary G Last Departure Point OLYMPIA, WA Destination LOCAL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - FULL STOP Age - 57 Biennial Flight Review Current - YES Total - Months Since - 23 Make/Model-	Eng Make/Model - LYCOMING 0-235-L2A ELT Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 112 HP Itinerary Airport OLYMPIA, WA Destination Airport G LOCAL GOWER Runway ATC/Airspace Runway Type of Flight Plan - NONE Runway Type of Clearance - NONE Runway Type Apch/Lndg - FULL STOP Age - 57 Medical Certificate - VALID Biennial Flight Review Flight Time (H Current - YES Total - 261 Months Since - 23 Make/Model - 228	Eng Make/Model - LYCOMING O-235-L2A ELT Installed/A Number Engines - 1 Stall Warnin Engine Type - RECIPROCATING-CARBURETOR Rated Power - 112 HP Itinerary Airport Proximity ON AIRSTRIP OLYMPIA,WA Destination Airport Data LOCAL GOWER FIELD Runway Ident - ATC/Airspace Runway Surface - Type of Flight Plan - NONE Runway Surface - Type of Clearance - NONE Runway Status - Type Apch/Lndg - FULL STOP Age - 57 Medical Certificate - VALID MEDICAL-WA Biennial Flight Review Flight Time (Hours) Current - YES Total - 261 Last 24 Months Since - 23 Make/Model - 228 Last 30	Eng Make/Model - LYCOMING 0-235-L2A

File No. - 98 5/04/89 LACEY, WA A/C Reg. No. N24508 Time (Lcl) - 1530 PDT

Occurrence #1

ON GROUND COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING

Finding(s)

1. PROPER ALIGNMENT - NOT MAINTAINED - PILOT IN COMMAND

2. TERRAIN CONDITION - HIGH VEGETATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN PROPER ALIGNMENT DURING LANDING.

Type Operating Certificate-NONE (GENERA		aft Damage		Injur		
Type of Operation -PARACHUTING	SUBS Fire	TANTIAL. Crew	Fatal O	Serious O	Minor	None 1
Flight Conducted Under -14 CFR 91	NONE	=: =::	-	ő	Ö	Ö
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 182A Landing Gear - TRICYCLE-FIXED	Eng Make/Model - (Number Engines -	CONTINENTAL 0-470-L		Installed/A tall Warnin		
Max Gross Wt - 2650		' RECIPROCATING-CARBUR		tali wariiii	ig system	163
No. of Seats - 1	Rated Power -		LION			
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING	- ·	nt	ON AIR	PORT		
Method - N/A Completeness - N/A	SAME AS ACC/INC Destination		Airport D	a+a		
Basic Weather - VMC	LOCAL	•	BALDWI			
Wind Dir/Speed- 290/015 KTS	200/12				18	
Visibility - 20.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Pla			Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	SNOW - C	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	- FULL STUP			SNOW - CI	UMPACIEL
Condition of Light - DAYLIGHT					•	
Personnel Information						
Pilot-In-Command Certificate(s)/Rating(s)	Age - 19 Biennial Flight Review	Medical Certifica	te - VALID ht Time (H		WAIVERS/	LIMIT
COMMERCIAL	Current - YES	Total -		Last 24	Hrs -	2
SE LAND, ME LAND	Months Since - 11	Make/Model-			Days- UN	_
	Aircraft Type - UNK/	NR Instrument-	53	Last 90	Days-	39
	<u> </u>		47			
Instrument Rating(s) - AIRPLANE						
Narrative						
PLT RPRTD HIS APCH SPEED WAS SLIGHTLY FAS	T & THAT HE HAD LANDED LO	NG ON THE 2500' GRAS	S STRIP. S	UBSEQUENTLY	, HE WAS	
LE TO STOP THE ACFT BEFORE IT STRUCK A SN	OWRANK AT THE END OF THE	STRIR & IT NOSED OVE	R THE SEL	ECTED RINWA	V WAS	

File No. - 159 2/11/89 BALDWIN, WI A/C Reg. No. N4028D Time (Lcl) - 1545 CST Occurrence #1 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 1. AIRSPEED - EXCESSIVE - PILOT IN COMMAND 2. WEATHER CONDITION - CROSSWIND 3. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - SNOW COVERED 4. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - ICY 5. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND 6. GO-AROUND - NOT PERFORMED - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 7. TERRAIN CONDITION - SNOWBANK Occurrence #3 NOSE OVER Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO GO AROUND WHEN HE LANDED LONG WITH TOO MUCH SPEED FOR THE CONDITIONS. FACTORS RELATED TO THE ACCIDENT WERE: THE PILOT'S EXCESSIVE AIRSPEED, HIS FAILURE TO ATTAIN THE PROPER TOUCHDOWN POINT, THE CROSSWIND, SNOWY/ICY RUNWAY CONDITIONS, AND THE SNOWBANK.

File No 56 3/05/89 PINE	CREEK, WI	A/C Reg.	No. N9044L	*	Time (Lc1)	- 1430 CST	
Basic Information							
Type Operating Certificate-NONE (GENERA	AL AVIATION)	Aircraft D	_			uries	
		SUBSTANTI		Fata	-		None
Type of Operation -PERSONAL		Fire		rew 0	-	0	1
Flight Conducted Under -14 CFR 91		NONE	Р	ass 0	0	0	1
Accident Occurred During -TAKEOFF							
-Aircraft Information							
Make/Model - AERONCA 7KCAB		Model - LYCOM	ING IO-320-E	2A EI	T Installed,		
Landing Gear - TAILWHEEL-ALL FIXED	Number Eng				Stall Warn	ing System	- NO
Max Gross Wt - 1650	Engine Typ		-FUEL INJECT	ED			
No. of Seats - 2	Rated Powe	r - 15	O HP				
Environment/Operations Information							
Weather Data	Itinerary				rt Proximity		
Wx Briefing - NO RECORD OF BRIEFING				OFF	AIRPORT/STR	[P	
Method - N/A	PINE CREE	K,WI					
Completeness - N/A	Destination			Airpor	t Data		
Basic Weather - VMC	PINE CREE	K,WI					
Wind Dir/Speed- 340/015 KTS					vay Ident	- N/A	
Visibility - 10.0 SM	ATC/Airspace				vay Lth/Wid		
Lowest Sky/Clouds - UNK/NR		ght Plan - N			way Surface	•	
Lowest Ceiling -		earance - N		Runi	vay Status	- N/A	
Obstructions to Vision- NONE	Type Apch/L	.ndg - N	ONE	•			
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 30		dical Certif			NO WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight R			light Time			
PRIVATE	Current		Total		Last 2		1
SE LAND	Months Since				Last 3		2
	Aircraft Type	- 7KCAB	Instrument	- 0	Last 9	00 Days-	3
Instrument Rating(s) - NONE							
Narrative RING AN ATTEMPT TO DEPART FROM A SNOW-COVER EAR OBSTACLES. THE AIRCRAFT COLLIDED WITH T ELD. THE HAY FIELD WAS LOCATED IN WHAT THE RCRAFT WAS BEING OPERATED WITHIN WEIGHT AND	REES AT THE TOP OF PILOT DESCRIBED AS	A HILL LOCA	TED OFF THE	DEPARTURE E	ND OF THE		

Time (Lc1) - 1430 CST File No. - 56 3/05/89 PINE CREEK, WI A/C Reg. No. N9044L

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. TERRAIN CONDITION - UPHILL

- 2. OBJECT TREE(S)
- 3. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND
- 4. TERRAIN CONDITION SNOW COVERED
- 5. PROPER CLIMB RATE NOT ATTAINED PILOT IN COMMAND
- 6. CLEARANCE INADEQUATE PILOT IN COMMAND

Occurrence #2

IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation DESCENT - UNCONTROLLED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S SELECTION OF UNSUITABLE TERRAIN WHICH RESULTED IN THE FAILURE TO ACHIEVE A PROPER CLIMB RATE WHICH RESULTED IN THE COLLISION WITH TREES. CONTRIBUTING TO THE ACCIDENT WAS THE UPHILL, SNOW COVERED TERRAIN.

File No 107 3/05/89 SUPERBasic Information	IOR,WI A/C									
Type Operating Certificate-NONE (GENERA	•	aft Damage		Injur						
Type of Operation -INSTRUCTIONA		「ANTIAL Crew	0	Serious O	Minor O	None 1				
Type of Operation -INSTRUCTIONAFlight Conducted Under -14 CFR 91	NONE			0 0	0	Ó				
Accident Occurred During -LANDING			· .							
-Aircraft Information										
Make/Model - CESSNA 172N		YCOMING 0-320-H2AD								
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300		1 RECIPROCATING-CARBURE		tall Warnin	g System	- YES				
No. of Seats - 4	Rated Power -		ITUK							
-Environment/Operations Information										
Weather Data	Itinerary		•	Proximity						
Wx Briefing - NO RECORD OF BRIEFING		nt	ON AIR	PORT						
Method - N/A Completeness - N/A	SUPERIOR,WI Destination		Airport D	ata						
Basic Weather - VMC	LOCAL			D I BONG						
Wind Dir/Speed- 130/005 KTS			Runway	Ident -						
Visibility - 15.0 SM	ATC/Airspace			Lth/Wid -		75				
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Flight Plan			Surface - Status -		O & & D & C T C (
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance Type Apch/Lndg		Runway	Status -	2140M - C	UMPACTE				
Precipitation - NONE	Type Apeny Endg	TOUCH AND GO								
Condition of Light - DAYLIGHT										
-Personnel Information	10	Marka and Canada Canada		MEDICAL UA	T)/EBC/L TM					
Pilot-In-Command Certificate(s)/Rating(s)	Age – 49 Biennial Flight Review	Medical Certificat			IVERS/LIM	11				
STUDENT	Current - N/A	Total -	80	Ĺast 24	Hrs - UN	K/NR				
	Months Since - N/A	Make/Model- Instrument- UN Multi-Eng - UN	16	Last 30	Days- UN	K/NR				
	Aircraft Type - N/A	Instrument- UN	NK/NR	Last 90	Days- UN	K/NR				
		Multi-Eng - UN	NK/NR	Rotorcr	aft - UN	K/NR				
Instrument Rating(s) - NONE										
-Narrative										
RTLY AFTER TOUCHDOWN ON A SNOW AND ICE COV	ERED RUNWAY, THE STUDENT F	PILOT EXPERIENCED A I	OSS OF DI	RECTIONAL						
TROL AS HE APPLIED BRAKES IN AN ATTEMPT TO		RCRAFT VEERED TO THE	E LEFT AND	DEPARTED						
LEFT SIDE OF THE RUNWAY, WHERE IT IMPACTE	D A SNOWBANK.									

File No. - 107 3/05/89 SUPERIOR, WI A/C Reg. No. N5315D Time (Lc1) - 1200 CST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - SNOW COVERED 2. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - ICY 3. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 4. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND 5. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL

Finding(s)

6. TERRAIN CONDITION - SNOWBANK

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN DIRECTIONAL CONTROL DURING THE LANDING, WHICH RESULTED IN AN INADVERTENT GROUND SWERVE. FACTORS RELATED TO THE ACCIDENT WERE THE ICY AND SNOW COVERED RUNWAY CONDITIONS AND THE SNOWBANK.

File No 155 3/27/89 W	EST BEND, WI A/	C Reg. No. N9578V	•	Time (Lc1)	- 1245 CST	
-Basic Information Type Operating Certificate-NONE (GE		craft Damage		Inju		
T 0.0		SSTANTIAL	Fatal			None
Type of Operation -PERSONAL				0	0	1
Flight Conducted Under -14 CFR 9	1 NON	IE Pa	ss 0	0	0	3
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - CESSNA 172M	Fng Make/Model -	LYCOMING 0-320-E2D	FIT	Installed/	Activated :	- VES/VE
Landing Gear - TRICYCLE-FIXED	Number Engines -			Stall Warni		
Max Gross Wt - 2300		RECIPROCATING-CARB	IRFTOR	starr warm	ng system	123
No. of Seats - 4		150 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing ~ FSS	Last Departure Po	oint	OFF A	IRPORT/STŔI	P	
Method - TELEPHONE	MILWAUKEE,WI			,		
Completeness - FULL	Destination		Airport [Data		
Basic Weather - VMC	SAME AS ACC/INC	;	WEST 6	BEND MUNI		
Wind Dir/Speed- 220/013 KTS			Runway	/ Ident	- 24	
Visibility - 10.0 SM	ATC/Airspace		Runwa	/ Lth/Wid	- 3900/	75
Lowest Sky/Clouds - 15000 FT	THIN BKN Type of Flight Pl	an - NONE	Runwa	/ Surface	- CONCRETE	
Lowest Ceiling - 25000 FT (Runwa	y Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lnda	- FORCED LANDING	•	**		
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 28	Medical Certifi	cate - VALI	MEDICAL-W	AIVERS/LIM	ΙT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Fì	ight Time (F	Hours)		
PRIVATE	Current - YES			Last 2		1
SE LAND	Months Since - 12	Make/Model-	13	Last 3	Days- UN	K/NR
	Aircraft Type - C-1	Make/Model- 172M Instrument-	3	Last 9	O Days-	4
Instrument Rating(s) - NONE						
-Narrative						
LE ON FINAL APPROACH TO LAND, THE PILO						
BLE TO OBTAIN AN INCREASE IN ENGINE PO	VER, THOUGH THE ENGINE CONTI	NUED TO RUN. HE SEL	ECTED THE DE	RYEST AVAIL	ABLE	
LD FOR AN EMERGENCY LANDING. AFTER CROS	SSING OVER AN OBSTRUCTION (P	OWER LINE), HE LAND	ED. AFTER LA	ANDING, THE		
CRAFT ENCOUNTERED SOFT TERRAIN & START	ED TO NOSE OVER AS IT WAS CR	ROSSING UNDER A SECO	ND POWER LIN	NE. BEFORE		
ING OVER, ITS TAIL SNAGGED ON THE SECO						
CRAFT REVEALED THE THROTTLE CABLE HAD I	PARTIALLY FAILED IN SUCH A M	IANNER THAT THROTTLE	MOVEMENT WO	OULD NOT OP	ERATE	
THROTTLE ARM.						

Phase of Operation Al Finding(s)	DSS OF ENGINE POWER(PARTIAL) - MECH F PPROACH - VFR PATTERN - FINAL APPROAC	AILURE/MALF H	
1. THRUTTLE/POWER LEVI	R,CABLE - FAILURE,PARTIAL		
Occurrence #2 FO Phase of Operation DE			
Finding(s) 2. TERRAIN CONDITION	NONE SUITABLE		
Occurrence #3 NO Phase of Operation LA			
Finding(s) 3. TERRAIN CONDITION	SOFT	· 	
Occurrence #4 ON Phase of Operation LA	I GROUND COLLISION WITH OBJECT NDING		
inding(s) 4. OBJECT - WIRE,TRANS			
Probable Cause			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PARTIAL FAILURE OF THE THROTTLE CABLE. UNSUITABLE (SOFT) TERRAIN AND TRANSMISSION WIRES IN THE LANDING AREA WERE CONSIDERED TO BE FACTORS.

File No 57 4/02/89 FREED 		Reg. No. N3016A				
Type Operating Certificate-NONE (GENERA		ft Damage		Inju		
		ANTIAL	Fatal	Serious		None
Type of Operation -PERSONAL	Fire	Crev		. 0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	NONE	Pass	6 0	0	0	0
Accident occurred buring -TAKEOFF						
Aircraft Information				,		/
Make/Model - CESSNA 170B	Eng Make/Model - C			Installed/		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines -			Stall Warni	ng System	- YES
Max Gross Wt - 2200	Engine Type - R		RETOR			
No. of Seats - 4	Rated Power -	145 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING	•	t	ON AIF	RPORT		
Method - N/A	FREEDOM, WI			,		
Completeness - N/A	Destination		Airport [ata		
Basic Weather - VMC	FREEDOM, WI				LINIZ AND	
Wind Dir/Speed- 180/010 KTS	ATC /A in an a co			/ Ident / Lth/Wid	- UNK/NR	
Visibility - 30.0 SM Lowest Sky/Clouds - UNK/NR	ATC/Airspace	NONE		Surface		n.E
	Type of Flight Plan				- GRASS/IU - WET	KF
Lowest Ceiling - 10000 FT BROWN Obstructions to Vision- NONE			Runway	Status	- WEI	
	Type Apch/Lndg	- NONE				
Precipitation - NONE Condition of Light - DAYLIGHT						
Condition of Light - DATEIGHT						
Personnel Information						
Pilot-In-Command	Age - 42				O WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ght Time (F			
PRIVATE	Current - YES	Total -		Last 2		1
SE LAND	Months Since - 4 Aircraft Type - C-170	Make/Model-	91	Last 3		1
	Aircraft Type - C-170	3 Instrument-	15	Last 9	O Days-	1
Instrument Rating(s) - NONE						
Narrative						
E PILOT EXPERIENCED A LOSS OF DIRECTIONAL (CONTROL DURING AN ATTEMPTED	TAKEOFF ON A ROAD	VAY WHICH F	RAN PARALLE	L TO THE	
LOT'S SOD STRIP. THE AIRCRAFT SWERVED TO TH						
O AND A SHALLOW DITCH. THE AIRCRAFT NOSED (

Time (Lc1) - 1630 CDT File No. - 57 4/02/89 FREEDOM, WI A/C Reg. No. N3016A

Occurrence #1 LOSS OF CONTROL - ON GROUND

Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

- 1. TERRAIN CONDITION ROADWAY/HIGHWAY
- 2. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND
- 3. LACK OF RECENT EXPERIENCE PILOT IN COMMAND
- 4. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND

Occurrence #2

NOSE OVER

Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

- 5. TERRAIN CONDITION DITCH
- 6. TERRAIN CONDITION WET
- 7. TERRAIN CONDITION SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL DURING THE ATTEMPTED TAKEOFF ON UNSUITABLE TERRAIN. THE PILOT'S LACK OF RECENT FLIGHT EXPERIENCE WAS A CONTRIBUTING FACTOR.

File No 145 1/02/89 CHE 	:YENNE, WY	A/C Reg. No. N44	140L 	. []	ime (Lc1)	- 1545 MS 	I
Type Operating Certificate-NONE (GENE	ERAL AVIATION)	Aircraft Damage SUBSTANTIAL		Fatal	Inju Serious		None
Type of Operation -BUSINESS		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAXI		NONE	Pass	0	0	0	0
Aircraft Information							
Make/Model - CESSNA 172		e/Model - CONTINENTAL C			installed/		
Landing Gear - TRICYCLE-FIXED		-11g 111co 1		J (all Warni	ng System	- YES
Max Gross Wt - 2300 No. of Seats - 4		Type - RECIPROCATING ower - 145 HP	a-CARBURE				
Weather Data	Itinerary			Airport F	roximitv		
Wx Briefing - NWS		arture Point		ON AIRF			
Method - ACFT RADIO	SAME AS	S ACC/INC					
Completeness - PARTIAL,LMTD BY PIL	.OT Destinatio	on .		Airport Da	ıta		
Basic Weather - VMC	GREELE	7,CO		CHEYENN			
Wind Dir/Speed- VARIABLE/030 KTS						- 26	
Visibility - 60.0 SM	ATC/Airspac				Lth/Wid		
Lowest Sky/Clouds - 10000 FT SC					Surface		E
Lowest Ceiling - 25000 FT BF Obstructions to Vision- NONE		Clearance - NONE n/Lndg - NONE		Runway	Status	- DRY	
Precipitation - NONE	Type Apci	1/ Lridg - Noine					
Condition of Light - DAYLIGHT		•					
Pilot-In-Command	Age - 34	Medical Ce	ertificat	e - VALID	MEDICAL-NO	WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight			t Time (Ho		-	,
COMMERCIAL, ATP, CFI	Current	- YES Total		5 103	Last 2	4 Hrs -	2
SE LAND, ME LAND	Months Sind	ce - 7 Make/M	lode1 -	1700	Last 3	Days-	40
	Aircraft Ty		ıment-		Last 9	Days-	188
		Multi-	Eng -	338			
Instrument Rating(s) - AIRPLANE							
Narrative							
E ATP RATED PLT WAS TAXIING THE ACFT ON T GUST LIFTED THE ACFT'S TAIL. THE ACFT THE						a,	
OM 250 DEG WITH GUSTS TO 45 KTS. DURING T							
KTS.	TIE TOTO MIST WAY OD.	SERVATION, THE WIND WAS	, I NOM 20	O DEG AT C	o dosi ind		

File No. - 145 1/02/89 CHEYENNE, WY A/C Reg. No. N4440L Time (Lc1) - 1545 MST

Occurrence #1 ON GROUND ENCOUNTER WITH WEATHER

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. WEATHER CONDITION HIGH WIND

Phase of Operation TAXI - TO TAKEOFF

- 3. WEATHER CONDITION GUSTS
- 4. COMPENSATION FOR WIND CONDITIONS NOT POSSIBLE -

Occurrence #2 NOSE OVER
Phase of Operation TAXI - TO TAKEOFF

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT. FACTORS RELATED TO THE ACCIDENT WERE THE HIGH WIND AND GUSTS, WHICH HE WAS UNABLE TO COMPENSATE FOR.

	ENNE, WY A/C	Reg. No. N83864	ר	Fime (Lcl) -	0540 MD1	·
Basic Information Type Operating Certificate-ON-DEMAND AI Name of Carrier -SKY HARBOR A Type of Operation -NON SCHED, DO Flight Conducted Under -14 CFR 135 Accident Occurred During -LANDING	AIR SVC. SUBST DMESTIC,CARGO Fire NONE	Crev Pass	0	Injuri Serious O O	es Minor O O	None 1 0
Aircraft Information Make/Model - PIPER PA-34-220T Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 4750 No. of Seats - 6	Eng Make/Model - C Number Engines -	ONTINENTAL TSIO-360 2 ECIP-FUEL INJECTED 220 HP	DB ELT	Installed/Ac Stall Warning		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 270/010 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(BRIGHT)	SAME AS ACC/INC ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- COMPANY (VFR) - VFR	ON AIR Airport D CHEYEN Runway Runway Runway	Data NNE MUNICIPAL / Ident - / Lth/Wid - / Surface -	26 9200/	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND	Age - 40 Biennial Flight Review Current - YES Months Since - 2 Aircraft Type - PA-34	Total - Make/Model-	ht Time (F 1513 142 293		Hrs - Days- Days-	'LIMIT 2 82 170 836
Instrument Rating(s) - AIRPLANE						

4/05/89

CHEYENNE, WY

A/C Reg. No. N83864

Time (Lc1) - 0540 MDT

Occurrence #1

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. LIGHT CONDITION NIGHT
- 2. FLARE MISJUDGED PILOT IN COMMAND
- VISUAL/AURAL DETECTION PILOT IN COMMAND
- 4. RECOVERY FROM BOUNCED LANDING IMPROPER PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT-IN-COMMAND TO PROPERLY RECOVER FROM A BOUNCED LANDING.

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