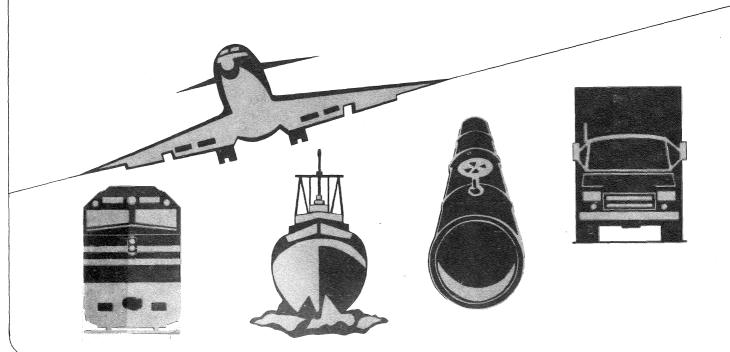
NATIONAL TRANSPORTATION SAFETY BOARD

WASHINGTON, D.C. 20594

AIRCRAFT ACCIDENT REPORTS

BRIEF FORMAT U.S.CIVIL AND FOREIGN AVIATION ISSUE NUMBER 8 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.

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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.

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

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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:

<u>Personal</u>

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</u> <u>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 8

CALENDAR YEAR 1989

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01401	5252	071589	ELOY, AZ	GRUMMAN	G-164A	NONE	028
01402	8557н	081789	MANASSAS, VA	ROBINSON	R22	NONE	370
01403	4325V	081389	LEESBURG, VA	PIPER	PA-28-161	NONE	368
01404	13906	080389	MIDLAND, VA	TRAVEL AIR	B-4000	NONE	366
01405	3128P	081489	BOUNTIFUL, UT	CONSOLIDATED	LAKE LA-4-	NONE	354
01406	8203G	080489	BRIGHTON, CO	CESSNA	177RG	NONE	070
01407	96096	111489	FRONT ROYAL, VA	CESSNA	152	NONE	376
01408	7597W	082189	CLENDENIN, WV	PIPER	PA-28-180	SERIOUS	392
01409	8849T	120889	CHAKACHAMNA LK, AK	CESSNA	182	NONE	010
01411	4065E	101389	NEAR COLD BAY, AK	PIPER	PA-18	NONE	004
01412	64276	110689	KENAI, AK	DEHAVILLAND	DHC-2	NONE	006
01413	220H	122389	BREVIG MISSION, AK	BEECH	18	NONE	014
01414	8569D	122289	PILOT POINT, AK	PIPER	PA-18	NONE	012
01415	7615s	122989	TANANA, AK	CITABRIA	7ECA	NONE	018
01416	90HS	052789	RIALTO, CA	HOLMAN/SEARS	HS-1	SERIOUS	040
01417	24586	080289	SARASOTA, FL	BEECH	A24R	FATAL	092
01418	118HS	041789	AIKEN, SC	BELL	UH-1E	SERIOUS	298
01419	8693C	050689	AUGUSTA, GA	PIPER	PA-22-135	FATAL	130
01420	45940	032689	FORT WORTH, TX	CESSNA	152	SERIOUS	318
01421	6573R	082589	BARRANQUITAS, PR	BEECH	C23	FATAL	296
01422	132SH	082789	BLANCHARD, ID	AEROSPATIALE	AS-350D	FATAL	144
01423	67691	122889	KODIAK, AK	DEHAVILLAND	DHC-2	NONE	016
01424	99901	081389	PASS-A-GRILLE, FL	CESSNA	172P	FATAL	096
01425	503DA	101489	SALT LAKE CITY, UT	BOEING	727-232	MINOR	364
01426	4985D	050689	LUGOFF, SC	CESSNA	182A	SERIOUS	300

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01427	3775J	070289	HOLLANDALE, MS	CESSNA	T188C	NONE	194
01428	127FB	081989	CLERMONT, FL	COCCHIARELLA	BUCCANEER	MINOR	098
01429	8074R	112289	RICHMOND, MN	BEECH	A24R	MINOR	188
01430	99615	112289	ASHLAND, KS	BURDETTE	CUBY PA-11	NONE	160
01431	4CD	090389	PERRY, FL	PIPER	PA-24-250	MINOR	100
01432	131PW	110589	HOMESTEAD, FL	WARREN/KELEH	JK-1B	NONE	116
01433	40340	100689	ORLANDO, FL	MAULE	M-4-220C	NONE	104
01434	4129E	110389	IMMOKALEE, FL	PIPER	PA-18-150	MINOR	114
01435	9700Q	060489	GULFPORT, MS	BEECH	A24R	NONE	192
01436	732AG	061589	MIRAMAR, FL	CESSNA	210L	MINOR	090
01437	93067	110289	LOXAHATCHEE, FL	BELL	47D1	SERIOUS	112
01438	2605P	122889	GRIFFITH, IN	PIPER	PA-38-112	NONE	154
01439	7037K	071389	WHARTON, TX	LOWE/BENSEN	KB-2	FATAL	336
01440	733VS	051389	FUQUAY, NC	CESSNA	172N	NONE	206
01441	8749D	113089	BARRON, WI	PIPER	PA-22	NONE	388
01442	40973	061889	ALBANY, OH	PIPER	PA-28	SERIOUS	270
01444	8149J	100889	TAMPA, FL	PIPER	PA-28-161	MINOR	108
01445	3647E	122889	CHILLICOTHE, OH	AERONCA	11AC	NONE	274
01446	81D	070289	CHUALAR, CA	PROGRESS AER	DISCOVERY	SERIOUS	046
01447	1976Q	081389	JANICE, MS	CESSNA	177RG	FATAL	196
01448	4519L	110589	WINDMILL POINT, VA	GULFSTREAM A	AA-5B	NONE	374
01449	5005s	101889	ATHENS, TN	PIPER	PA-28R-200	FATAL	310
01450	15LH	111589	PEMBROKE PINES, FL	PIPER	PA-23-250	MINOR	118
01451	8785B	120789	ATLANTIC OCEAN, OF	CESSNA	172	FATAL	266
01452	3976W	021789	CONROE, TX	PIPER	PA-32-260	MINOR	316

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01453	734DR	022689	MARIETTA, OK	CESSNA	172	NONE	276
01454	2155G	100289	NIXON, NV	CESSNA	182A	FATAL	244
01455	5004L	040589	WEST CAMERON, GM	BELL	206B	NONE	140
01456	58228	051889	ROCKSPRINGS, TX	HUGHES	269C	FATAL	326
01457	8785V	041789	JUNCTION, TX	BELLANCA	17-30A	FATAL	322
01459	93110	102589	PENASCO, NM	CESSNA	T210L	FATAL	242
01460	1232J	091689	LA GRANGE, CA	ROCKWELL	112B	FATAL	058
01461	69549	062089	PASO ROBLES, CA	CESSNA	340	NONE	042
01462	84709	080489	RIO LINDA, CA	AERONCA	7AC	NONE	050
01463	8477B	081089	SCOTTSDALE, AZ	ROBINSON	R22	MINOR	032
01464	4359C	111889	HAYWARD, CA	PIPER	PA-28-161	MINOR	068
01465	5300G	012889	BLAIRSTOWN, NJ	CESSNA	305A	FATAL	228
01466	85837	100589	PENN VALLEY, CA	AERONCA	11AC	NONE	066
01467	714MS	110789	BIRCHWOOD, AK	CESSNA	150	NONE	008
01468	4450Y	092689	WARNER SPRINGS, CA	PIPER	PA-25-235	NONE	062
01469	6121R	082489	ENGLEWOOD, CO	CESSNA	T210F	SERIOUS	074
01470	9755	073189	DAWSON, GA	GRUMMAN	G-164A	MINOR	134
01471	83732	091789	SEMMES, AL	AERONCA	7AC	NONE	024
01472	757нЈ	041589	GRATIS, OH	CESSNA	152	NONE	268
01473	48257	061689	BIRMINGHAM, AL	CESSNA	R172E	NONE	022
01474	519TW	092889	FLAGSTAFF, AZ	CESSNA	180	NONE	036
01475	7375F	062689	ATLANTA, GA	BOEING	737-291	SERIOUS	132
01476	5556P	122489	DANIELSVILLE, GA	PIPER	PA-24	NONE	138
01477	40892	091789	HAYMARKET, VA	PIPER	PA-28-180	MINOR	372
01478	52491	111989	MITCHELLVILLE, MD	CESSNA	172	NONE	170

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01480	24463	082789	LEONARDTOWN, MD	TAYLORCRAFT	BC-65	NONE	168
01481	9456F	040889	LONG BEACH, CA	HUGHES	269B	MINOR	038
01482	7341W	073089	CORONA, CA	PIPER	PA-28-180	NONE	048
01483	58281	083189	PARKERSBURG, WV	HUGHES	269C	SERIOUS	394
01484	61552	072889	MARANA, AZ	CESSNA	172M	NONE	030
01485	95617	110489	DYERSBURG, TN	CESSNA	152	NONE	312
01486	89212	111989	BURLINGTON, NC	CESSNA	152	SERIOUS	212
01487	67803	082589	SELBYVILLE, DE	CESSNA	152	NONE	088
01488	6879N	122489	FORT LAUDERDALE, FL	MOONEY	M20	NONE	126
01489	13AT	061189	EVERETT, WA	ANDERSON	BD-5	FATAL	378
01490	62873	041989	PELICAN, AK	DEHAVILLAND	DHC-2	FATAL	002
01491	5379P	070989	MEDICINE LODGE, KS	PIPER	PA-24-250	FATAL	156
01492	2841P	082989	MOOSE LAKE, MN	PIPER	PA-20	FATAL	182
01493	4554L	090489	SOUTH HARPSWELL, ME	GRUMMAN	AA-5B	NONE	176
01494	203Q	090889	BOSTON, MA	ENSTROM	F28A	NONE	166
01495	43561	040989	GORHAM, ME	TAYLORCRAFT	BC12-D	SERIOUS	172
01496	2265X	030989	BETHEL, NY	CESSNA	337	MINOR	250
01497	10659	071289	DOYLESTOWN, PA	CESSNA	150L	SERIOUS	286
01498	201MQ	011989	LUMBERTON, NJ	MOONEY	M20J	NONE	226
01499	1361P	120389	JACKSON, TN	PIPER	PA-23-150	NONE	314
01500	3458	091589	BUENA VISTA, CO	BLANIK	L-13	FATAL	080
01501	831SR	122889	SARASOTA, FL	PIPER	PA-34-200	NONE	128
01502	171LE	113089	COVINGTON, KY	CESSNA	550	NONE	162
01503	734PL	101489	RIDGELAND, SC	CESSNA	172	NONE	302

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01505	57470	102689	FLORENCE, SC	BELLANCA	7KCAB	NONE	304
01506	4556D	091589	LOUISVILLE, GA	SIKORSKY	H-34J	NONE	136
01507	2333L	092989	HATTERAS, NC	BEECH	B23	MINOR	208
01508	38529	021189	YARMOUTH, MA	PIPER	PA-28-161	FATAL	164
01509	51774	040889	PADRE ISLAND, TX	ENSTROM	F28C	NONE	320
01510	525GT	121389	CAPE GIRARDEAU, MO	BEECH	80	NONE	190
01511	4841P	091089	NEWARK, IL	CESSNA	152	SERIOUS	148
01512	77707	102689	SAN ANTONIO, TX	MCCLISH/FUNK	B85C	SERIOUS	348
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01514	5209G	073089	CHALFONT, PA	CESSNA	305A	NONE	290
01515	182BS	042189	LEAKEY, TX	CESSNA	182Q	NONE	324
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01520	412RC	072889	WAUKESHA, WI	CABRINHA/FRE	412	NONE	384
01521	11WR	062589	KIRKLAND, IL	RENNINGER	MUSTANG II	NONE	146
01522	20428	111789	OSAGE CITY, KS	CESSNA	172	SERIOUS	158
01523	3961н	102289	OGILVIE, MN	HUGHES	369HS	NONE	184
01524	8750R	112089	PLAINWELL, MI	HELIO	H-391B	NONE	180
01525	10GF	090689	HORATIO, AR	PIETENPOL	AIR CAMPER	MINOR	026
01526	2706T	071489	PONTIAC, MI	CESSNA	335	NONE	178
01527	4360K	071689	CELINA, TX	PIPER	PA-32R-301	FATAL	338
01528	8134Y	091889	AGANA, GUAM, OF	HUGHES	269A	FATAL	264

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01530	2YS	092989	GREENCASTLE, IN	BEECH	A36TC	FATAL	150
01531	99766	051389	TROY, NC	ERCOUPE	415-C	FATAL	204
01532	8203	061189	GUNTERSVILLE, AL	HADLEY	TEENIE TWO	MINOR	020
01533	28LR	062289	NEWHALL, CA	AEROSPATIALE	TB-21	FATAL	044
01534	6659D	111889	FERNANDINA BCH, FL	BEECH	58	NONE	120
01535	7628V	112189	MIMS, FL	CESSNA	177RG	NONE	122
01536	3063Т	100589	PALM SPRINGS, CA	PIPER	PA-28RT-20	FATAL	064
01537	2553F	112589	SHAWNEE, OK	CHAMPION	7ECA	NONE	280
01538	8654N	042689	EUFAULA, OK	PIPER	PA-32-300	NONE	278
01539	7337G	111189	FABENS, TX	CESSNA	172K	NONE	350
01540	9462V	091789	BRENHAM, TX	MOONEY	M20E	MINOR	346
01541	75GC	092789	GRAND CANYON, AZ	DEHAVILLAND	DHC-6-300	FATAL	034
01542	5793P	022289	SPRING VALLEY, NY	AEROSPATIALE	AS-350D	MINOR	248
01543	14LU	091689	KERRVILLE, TX	ZENAIR	CH-200	FATAL	344
01544	66295	072389	NELIGH, NE	BEECH	C23	FATAL	218
01545	8636V	070489	BROKEN BOW, NE	BELLANCA	8KCAB	FATAL	216
01546	733FY	092089	HYANNIS, NE	CESSNA	172N	SERIOUS	220
01547	13620	090289	BELLVILLE, TX	CESSNA	172M	NONE	340
01548	15250	070189	PORT ARANSAS, TX	PIPER	PA-28R	NONE	332
01549	3279Q	052989	STRATFORD, TX	PIPER	PA-32R	NONE	330
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01552	94777	090589	CARMIN, TX	CESSNA	152	NONE	342
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01555	97628	090189	COOL, CA	STINSON	108	NONE	054
01556	2705K	090289	ENGLEWOOD, CO	CESSNA	180K	NONE	078
01557	6029S	100989	LAS VEGAS, NM	BEECH	A36	MINOR	240
01558	9496D	091189	WINSTON, NM	PIPER	PA-18A-150	SERIOUS	238
01559	3456X	091889	NEIHART, MT	MOONEY	M20C	SERIOUS	202
01560	91269	102289	WARRENS, WI	WYCHEN	CHALLENGER	SERIOUS	386
01561	23605	032289	JOHNSTOWN, PA	BEECH	A100	NONE	284
01562	45861	030689	JOHNSTOWN, PA	BEECH	TC-45J	NONE	282
01563	49JC	061889	ALLIANCE, OH	COX/PITTS	SPECIAL S-	NONE	272
01564	2369Q	082789	WATKINS, CO	WACO	UPF7	NONE	076
01565	6697G	082289	LOGAN, UT	CESSNA	150-L	NONE	356
01566	7111W	083089	DUTCH JOHN, UT	PIPER	PA-28-180	NONE	358
01567	84164	081189	BULLFROG, UT	AEROFAB	LAKE LA-25	SERIOUS	352
01568	244MB	102189	TETERBORO, NJ	CESSNA	T210N	NONE	234
01569	90437	040689	UTICA, NY	SMITH	AEROSTAR 6	NONE	252
01570	2685G	090289	PHILIP, SD	CESSNA	182B	MINOR	306
01571	9342R	091089	SUNLAND PARK, NM	CESSNA	188B	NONE	236
01572	87KS	062589	NEW BERLIN, WI	SCHUNING/TER	TERRA II	SERIOUS	382
01573	6372K	083189	DELTA, UT	CESSNA	150M	NONE	360
01574	56654	081989	DOVE CREEK, CO	PIPER	PA-28-235	SERIOUS	072
01575	42027	090189	MOAB, UT	CESSNA	182L	NONE	362
01576	9085T	081489	QUITMAN, MS	CONTINENTAL	TOMCAT MK6	SERIOUS	198
01577	6449M	110689	TOLEDO, IA	CESSNA	152	MINOR	142
01578	3174S	110289	SAINT PAUL, MN	BELL	206L-3	NONE	186

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01580	80528	102889	ZELLWOOD, FL	TEMCO	GC-1B	NONE	110
01581	302RS	081289	MALABAR, FL	SMITH	KITFOX II	NONE	094
01582	7465P	051489	WAUNAKEE, WI	PIPER	PA-24-250	NONE	380
01583	95554	091189	TORRANCE, CA	CESSNA	152	NONE	056
01584	29216	072489	STONINGTON, CT	PIPER	PA-28-161	SERIOUS	082
01585	758PW	021089	BALLSTON SPA, NY	CESSNA	R172K	NONE	246
01586	1707н	080389	MATTITUCK, NY	PIPER	PA-28R-201	NONE	260
01587	39752	080289	PLYMOUTH, NH	WACO	UPF-7	NONE	224
01588	8909N	080189	DANBURY, CT	PIPER	PA-32-300	NONE	084
01589	1611R	081089	MOUNT JOY, PA	GRUMMAN	AA-5	NONE	294
01590	5266T	070289	GASPORT, NY	PIPER	PA-28-140	MINOR	254
01591	19652	072889	MT PLEASANT, PA	CESSNA	172	NONE	288
01592	8061C	072389	ATLANTIC CITY, NJ	PIPER	PA-18A	MINOR	232
01593	8471P	022789	DELMONT, NJ	PIPER	PA-24-400	NONE	230
01594	1526F	073189	WOLFEBORO, NH	CESSNA	185D	NONE	222
01595	5084X	080589	SHIRLEY, NY	CHAMPION	7KCAB	MINOR	262
01596	75044	080289	PHILADELPHIA, PA	SCHWEIZER	269C	NONE	292
01597	758QB	080589	GRISWOLD, CT	CESSNA	R172K	NONE	086
01598	89JD	081689	MILBRIDGE, ME	ENSTROM	280C	NONE	174
01599	48683	070389	PLATTSBURGH, NY	CESSNA	152	NONE	256
01600	3154T	070989	AKRON, NY	CESSNA	177A	MINOR	258

AIRCRAFT ACCIDENT REPORTS BRIEF FORMAT U.S. CIVIL AND FOREIGN AVIATION ISSUE NUMBER 8 OF 1989 ACCIDENTS

File No 1490 4/19/89 PELI	CAN, AK	A/C Reg. No. N	62873	Tin	ne (Lcl) -	1315 ADT	
Basic Information Type Operating Certificate- Type of Operation -SCHEDULED, Defight Conducted Under -14 CFR 135 Accident Occurred During -MANEUVERING	OMESTIC,PAX/CARGO	Aircraft Damage DESTROYED Fire ON GROUND	I Crew Pass	Fatal 1 1	Injur Serious 0 0	ies Minor 0 0	None 0 0
Aircraft Information Make/Model - DEHAVILLAND DHC-2 Landing Gear - AMPHIBIAN Max Gross Wt - 5100 No. of Seats - 7	Eng Make/Mo Number Eng: Engine Type Rated Power	odel - P&W R-985-A ines - 1 e - RECIPROCATI c - 400 HP	n1-4B ng-carburetor	ELT Ir Sta	nstalled/A all Warnin	ctivated - g System -	- YES/NO - YES
Environment/Operations Information Weather Data Wx Briefing - Method - TELEPHONE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 330/013 KTS Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - DAYLIGHT	Itinerary Last Departs JUNEAU,AK Destination PELICAN,AM ATC/Airspace Type of Flic Type of Clea Type Apch/La	ζ	A	Irport Da Runway I Runway I Runway S	PORT/STŘIP	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND,SE SEA Instrument Rating(s) - AIRPLANE	Age - 42 Biennial Flight Re Current Months Since Aircraft Type	Medical (eview Tota Tota Make C-185 Inst.	Certificate - Flight 1 1 - 4800 /Model- 460 rument- 5 i-Eng - 24	- VALID M Fime (Hou 53	MEDICAL-NO ars) Last 24 Last 30 Last 90 Rotorcr	WAIVERS/I Hrs - 3 Days- 55 Days- 95 aft -	JIMIT
DRG A FLT FROM JUNEAU TO PELICAN, AK, THE ACT CHICHAGOF ISLAND. IMPACT OCCURRED ON A VERTIC OR MALFUNCTION OF THE ACFT WAS EVIDENT. ANOTH DECIDED TO FLY AROUND THE ISLAND DUE TO LOW (RATHER THAN TAKE A MORE DIRECT ROUTE & THAT (A HELICOPTER PLT SAID HE WAS UNABLE TO WORK FOG; HE ALSO SAID THE PASSES WERE "SOCKED IN	CAL ROCK WALL AT AN HER PLT, WHO HAD PLA CLOUDS, RAIN & FOG I CEILINGS WERE ABOUT IN MOUNTAIN PASSES I	ELEVATION OF ABOUT ANNED TO FLY THE SA IN THE AREA. HE RE 2000 FT BROKEN WIT	T 1950 FT. NO AME ROUTE ABO RTD THAT HE F TH LOWER STRA	PREIMPA OUT 1 HR FLEW OVER ATUS IN T	ACT PART FA & 45 MIN B R ICY STRANGE THE VALLEY	AILURE EARLIER, ITS S.	

A/C Reg. No. N62873 Time (Lcl) - 1315 ADT File No. - 1490 4/19/89 PELICAN, AK

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. TERRAIN CONDITION HIGH TERRAIN
- 3. WEATHER CONDITION LOW CEILING
- 4. WEATHER CONDITION FOG
- 5. WEATHER CONDITION RAIN
- 6. WEATHER CONDITION OBSCURATION
- 7. VFR FLIGHT INTO IMC INADVERTENT PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING

Finding(s)

8. TERRAIN CONDITION - MOUNTAINOUS/HILLY

9. TERRAIN CONDITION - RISING

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT DECISION BY THE PILOT, AND HIS INADVERTENT FLIGHT INTO INSTRUMENT METEOROLOGICAL CONDITIONS (IMC). THE TERRAIN AND WEATHER CONDITIONS WERE CONSIDERED TO BE FACTORS.

File No 1411 10/13/89 NE Basic Information Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91					ime (Lcl) - Injur Serious 0 0		
Accident Occurred During -LANDING Aircraft Information Make/Model - PIPER PA-18 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750 No. of Seats - 2							
-Environment/Operations Information Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - WEATHER NOT PERTIN Basic Weather - VMC Wind Dir/Speed- 250/015 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 1500 FT S Lowest Ceiling - 4000 FT B Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure COLD BAY,AK ENT Destination LOCAL ATC/Airspace CATTERED Type of Flight ROKEN Type of Clearan	Point Plan - VFR ce - NONE		Airport I OFF AII	Proximity RPORT/STRIP	N/2	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 33 Biennial Flight Revie Current - Y Months Since - 1 Aircraft Type - C	Medical Ce W ES Total 4 Make/M 152 Instru Multi-I	rtificate Flight - 193 odel- 83 ment- Eng -	- VALID Time (Ho	MEDICAL-WA Durs) Last 24 Last 30 Last 90 Rotorera	IVERS/LIMI Hrs - 3 Days- 11 Days- 31 aft -	T 0
-Narrative PARTIAL REPORTED HE WAS USING CARBURETOR THE CARBURETOR THE AFTER FLYING THRU A PROPERTY OF APPLIED CARBURETOR HEAT DURING THE DESTAND IN AN AREA OF ALDER BUSHES AND THE CORECT OF THE ENGINE REVEALED NO MECHANICAL	ASS, HE BEGAN A LONG, LOW CENT. SUBSEQUENTLY, THE E AIRCRAFT WAS DAMAGED. AF	POWER DESCENT, INGINE STOPPED PRO	BUT WAS U	NABLE TO OWER. THE	RECALL IF I	HE FORCED	

File No. - 1411 10/13/89 NEAR COLD BAY,AK A/C Reg. No. N4065E Time (Lcl) - 1840 ADT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation DESCENT - NORMAL

Finding(s)

1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS

2. CARBURETOR HEAT - IMPROPER USE OF - PILOT IN COMMAND

3. FUEL SYSTEM, CARBURETOR - ICE

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 - HIGH VEGETATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF CARBURETOR HEAT BY THE PILOT, WHICH RESULTED IN LOSS OF ENGINE POWER DUE TO CARBURETOR ICE. CARBURETOR ICING CONDITIONS AND HIGH VEGETATION IN THE FORCED LANDING AREA WERE CONTRIBUTING FACTORS.

File No 1412 11/06/89 KENAI						ime (Lcl)		
Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING				Fatal 0 0	Inju Serious 0 0	ries Minor 0 0	None 1 0	
-Aircraft Information Make/Model - DEHAVILLAND DHC-2 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 5100 No. of Seats - 2	Eng Make/Mode Number Engine	el - P&W R-985-14 es - 1 - RECIPROCATIN	В	ELT S TOR	Installed/ <i>I</i> tall Warnin	Activated - ng System -	- YES/YE - NO	
-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 - 20.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	SAME AS ACC, Destination ANCHORAGE, AN ATC/Airspace Type of Flight Type of Clear	INC		ON AIR Airport KENAI Runway Runway Runway		- 7575/ 1 - ASPHALT	.50	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,SE SEA HELICOPTER	Age - 37 Biennial Flight Revi Current - Months Since - Aircraft Type -	Medical C ew YES Total 5 Make/ DHC-2 Instr	ertificat Fligh - 68 Model- 30 ument-	e - VALID t Time (H 00 00 1300	MEDICAL-WA Ours) Last 24 Last 90 Last 90 Rotorci	AIVERS/LIMI 4 Hrs - 3 0 Days- 55 0 Days- 115 raft - 1	800	
Instrument Rating(s) - AIRPLANE, HE	ER TAKEOFF, THE ENG I							
THE RWY; HOWEVER, THE ENG PROGRESSIVELY LO EE COVERED TERRAIN & TUNDRA. A TEARDOWN OF	ST ALL POWER. SUBSEQU	ENTLY, THE ACFT	WAS DAMAG	ED DRG A				

File No. - 1412 11/06/89 KENAI, AK A/C Reg. No. N64276 Time (Lcl) - 2030 AST

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

Finding(s)
1. ENGINE ASSEMBLY, BEARING - FAILURE, TOTAL

Occurrence #2 FORCED LANDING MANEUVERING - TURN TO LANDING AREA (EMERGENCY)

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING

Finding(s)
2. LIGHT CONDITION - DARK NIGHT
3. TERRAIN CONDITION - ROUGH/UNEVEN

-----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE ENGINE BEARING, WHICH RESULTED IN A SUBSEQUENT TOTAL LOSS OF POWER. CONTRIBUTING FACTORS WERE: DARK NIGHT AND ROUGH/UNEVEN TERRAIN.

File No 1467 11/07/89 BIRCH	WOOD, AK A	/C Reg. No. N714MS	T	ime (Lcl) -	1805 AST	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	L AVIATION) Air SU Fir NO	craft Damage BSTANTIAL e Cre	Fatal ew 0 ss 0	Injur Serious 0 0	ies Minor 0 0	None 1 1
Aircraft Information Make/Model - CESSNA 150 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2	Eng Make/Model Number Engines	- CONTINENTAL 0-235 - 1 - RECIPROCATING-CARBU - 100 HP	ELT S JRETOR	Installed/A tall Warnin	ctivated - g System -	- YES/YES - YES
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 - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure P SAME AS ACC/IN Destination LOCAL	oint C	ON AIR Airport BIRCHW	Data OOD	19 4010/ 1 ASPHALT SNOW - DF SNOW - CO	.00 XY MPACTED
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, SE SEA	Age - 21 Biennial Flight Review Current - YE Months Since - 8 Aircraft Type - C-	Medical Certific Fli S Total - Make/Model- 150 Instrument- Multi-Eng -	cate - VALID .ght Time (H 296 22 50 UNK/NR	MEDICAL-NO ours) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/I Hrs - UNK Days- 7 Days- 15 aft - UNK	IMIT :/NR :/NR
Instrument Rating(s) - AIRPLANE						
Narrative THE PLT RPRTD THAT BEFORE HE STARTED HIS TAKE ACFT FOR TAKEOFF BY REFERENCING THE SNOW BERM NORMAL UNTIL HE ROTATED THE ACFT FOR LIFT-OFF THE RWY & NOSED OVER. AN INVESTIGATION REVEAL CENTERLINE OF THE RWY TO A POINT WHERE IT WAS WHERE THE RIGHT BERM ANGLED SHARPLY TO THE LET	S (BESIDE THE RWY) & BY . AS THE ACFT LIFTED OF ED THAT ARPT PSNL HAD P ALLOWED TO ANGLE BACK	SIGHTING DOWN THE RW F, IT STRUCK THE SNOW LOWED THE RIGHT BERM	Y. THE TAKE BERM ON TH AT A 20 DEG	OFF ROLL SEI E RIGHT SIDI ANGLE AWAY	EMED E OF FROM	

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. LIGHT CONDITION - DARK NIGHT

- 2. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION SNOW COVERED
- 3. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND
- 4. TERRAIN CONDITION SNOWBANK
- 5. AIRPORT SNOW REMOVAL INADEQUATE AIRPORT PERSONNEL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN PROPER RUNWAY ALIGNMENT DURING THE TAKEOFF ROLL. RELATED FACTORS WERE: DARK NIGHT, SNOW COVERED RUNWAY, INADEQUATE SNOW REMOVAL FROM THE RUNWAY BY PERSONNEL (WHO WERE RESPONSIBLE FOR SNOW REMOVAL), AND THE SNOWBANK (BERM).

Basic Information	T AVITABLEON)	-ft Damage		Todas	-1	
Type Operating Certificate-NONE (GENERA	L AVIATION) AIRCES	ait Damage TANTIAL	Fatal	Injur Serious	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		aft Damage TANTIAL		0 0	0	1 0
-Aircraft Information Make/Model - CESSNA 182 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2650 No. of Seats - 4	Eng Make/Model - (Number Engines - Engine Type - 1 Rated Power -	CONTINENTAL O-4	70-R FIT		Activated ·	
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 80.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC Destination PALMER, AK		OFF AI Airport Runway	Proximity RPORT/STRIE Data Ident Lth/Wid - Surface - Status -	- N/A - N/A - N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 45 Biennial Flight Review Current - NO Months Since - 43 Aircraft Type - C-182	Medical Cert Total Make/Mod 2 Instrume Multi-En	ificate - EXPIF Flight Time (F - 1600 el- 300 nt- UNK/NR g - 0	ED (ours) Last 24 Last 30 Last 90 Rotorcr	Hrs - UNI Days- UNI Days- UNI	K/NR K/NR K/NR 0
Instrument Rating(s) - NONE						
-Narrative ACDNT OCCURRED AS THE PLT OF THE SKI EQUI SOUTH SHORE OF CHAKACHAMNA LAKE. IN A STA ATTEMPTED TAKEOFF, HIT SNOW BANK " NOSE.	TEMENT AFTER THE ACONT, TH	HE PLT REPORTED	HE WAS "TAXIIN	G FOR TAKEO	FF	

File No. - 1409 12/08/89 CHAKACHAMNA LK,AK A/C Reg. No. N8849T Time (Lcl) - 1430 AST

Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

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

2. TERRAIN CONDITION - SNOW COVERED

3. TERRAIN CONDITION - SOFT

4. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND

Occurrence #2 LOSS OF CONTROL - ON GROUND

Phase of Operation TAKEOFF - GROUND RUN

Occurrence #3 NOSE DOWN

Phase of Operation TAKEOFF - GROUND RUN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PREPARATION OF THE TAKEOFF AREA BY THE PILOT, AND HIS ATTEMPT TO TAKE OFF ON UNSUITABLE TERRAIN. THE SOFT/SNOW COVERED TERRAIN WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

File No 1414 12/22/89 PILOTBasic Information		Reg. No. N8569D 		me (Lcl) -		
Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	L AVIATION) Aircrai SUBSTA Fire NONE	Et Damage ANTIAL Crew Pass	Fatal 0 0	Injur Serious 0 0	Minor	
Aircraft Information Make/Model - PIPER PA-18 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750 No. of Seats - 2	Eng Make/Model - L' Number Engines - I Engine Type - RF Rated Power -	l ECIPROCATING-CARBURE	st	nstalled/A all Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 045/010 KTS Visibility - 30.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE - NONE	Runway Runway Runway	TRIP Data OINT Ident - Lth/Wid - Surface - Status -	GRAVEL SNOW - CO	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) NONE	Age - 29 Biennial Flight Review Current - N/A Months Since - N/A Aircraft Type - N/A	Fligh	te - NO MED nt Time (Ho NK/NR NK/NR NK/NR	ICAL ours) Last 24 Last 30 Last 90	Hrs - UNI Days- UNI Days- UNI	K/NR K/NR K/NR K/NR
Instrument Rating(s) - NONE Narrative E NON-CERTIFICATED PILOT REPORTED HE ATTEMP DICATED THAT WHILE TAKING OFF WITH A LIGHT R LOSS OF LIFT ON THE RIGHT WING. SHORTLY A OWED THAT THE PILOT'S STUDENT PILOT CERTIFI	CROSSWIND COMPONENT, THE ATTER LIFT-OFF, THE RIGHT WI	RCRAFT HAD INSUFFIC	CIENT AIRSP	EED TO COM	PENSATE	

File No. - 1414 12/22/89 PILOT POINT,AK A/C Reg. No. N8569D Time (Lcl) - 1230 AST

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

Finding(s)

1. ICE/FROST REMOVAL FROM AIRCRAFT - NOT PERFORMED - PILOT IN COMMAND

2. INADEQUATE TRAINING - PILOT IN COMMAND

3. QUALIFICATION - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation TAKEOFF

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE NON-CERTIFICATED PILOT TO REMOVE ICE/FROST FROM THE WING(S) PRIOR TO FLIGHT. HIS LACK OF TRAINING AND QUALIFICATION WERE PROBABLE CONTRIBUTING FACTORS.

File No 1413 12/23/89 BREV	IG MISSION,AK	A/C Reg. No	. N220H		Time (Lcl) -	- 1650 AST	
-Basic Information Type Operating Certificate-ON-DEMAND A Name of Carrier -BERING AIR Type of Operation -NON SCHED,D Flight Conducted Under -14 CFR 135 Accident Occurred During -APPROACH							None 1 0
-Aircraft Information Make/Model - BEECH 18 Landing Gear - TAILWHEEL-RETRACTABLE 1 Max Gross Wt - 10100 No. of Seats - 2	Eng Make, MAINS Number Er	Model - P&W R-98 gines - 2	5	ELT	Installed/ <i>P</i> Stall Warnir	ctivated	
-Environment/Operations Information Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 360/020 KTS Visibility - 30.0 SM Lowest Sky/Clouds - CLEAR	Itinerary Last Depar NOME, AK Destination TELLER, F ATC/Airspace Type of Fl	rture Point on .K .ight Plan - NONE		ON AIF Airport BREVIG Runway Runway Runway	Data G MISSION v Ident -	2400/ GRAVEL	180
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP,CFI SE LAND,ME LAND	Age - 31 Biennial Flight Current Months Since Aircraft Tyr	Medica Review - YES To - 3 Ma De - BE-18 In	al Certificate Flight otal - 105 ake/Model- 250 nstrument- ulti-Eng - 4	- VALID Time (E 63 900 663	MEDICAL-NC lours) Last 24 Last 30 Last 90	WAIVERS/ Hrs - 3 Days- 10 Days- 30	LIMIT 6 0
Instrument Rating(s) - AIRPLANE							
Narrative PLT RPRTD THE RIGHT ENG BEGAN TO LOSE POUR PROACH & ELECTED TO GO AROUND. HE STATED TO PLAY FEATHERED THE RIGHT PROP & RETRACTED GROUND. SUBSEQUENTLY, HE LANDED THE ACFT COVERED FROM THE ACDNT SITE.	HAT AS HE WENT TO THE GEAR & FLAPS,	FULL POWER, THE POWER THE POWER THE POWER	RIGHT ENGINE "(TO KEEP THE AC	QUIT ALT	OGETHER." SETTLING TO		

File No. - 1413 12/23/89 BREVIG MISSION, AK A/C Reg. No. N220H Time (Lcl) - 1650 AST

Occurrence #1 LOSS OF ENGINE POWER

Phase of Operation GO-AROUND (VFR)

Finding(s)

1. 1 ENGINE -

2. REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2 FORCED LANDING Phase of Operation LANDING

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

3. TERRAIN CONDITION - ROUGH/UNEVEN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF POWER IN THE THE RIGHT ENGINE FOR AN UNKNOWN REASON. THE ROUGH/UNEVEN TERRAIN WAS A CONTRIBUTING FACTOR.

File No 1423 12/28/89 KODIA	K,AK A/C Reg. No. N	M67691 Time (Lcl) - 1400 AST	
-Basic Information Type Operating Certificate-ON-DEMAND AI Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	R TAXI Aircraft Damage SUBSTANTIAL Fire NONE	Injuries Fatal Serious Minor Crew 0 0 0 Pass 0 0 0	None 1 0
-Aircraft Information Make/Model - DEHAVILLAND DHC-2 Landing Gear - FLOAT Max Gross Wt - 5040 No. of Seats - 7	Eng Make/Model - P&W R-985 Number Engines - 1 Engine Type - RECIPROCATI Rated Power - 450 HP	ELT Installed/Activated - Stall Warning System - STALL WARNING SYSTE	YES/NO
-Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 280/030 KTS Visibility - 75.0 SM Lowest Sky/Clouds - 1800 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace TERED Type of Flight Plan - COMPANY	Airport Proximity OFF AIRPORT/STRIP Airport Data Runway Ident - N/A Runway Lth/Wid - N/A (VFR) Runway Surface - N/A Runway Status - N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND, SE SEA	Age - 37 Medical G Biennial Flight Review Current - YES Total Months Since - 6 Make Aircraft Type - DHC-2 Inst. Mult	Certificate - VALID MEDICAL-WAIVERS/LIMIT Flight Time (Hours) 1 - 5800 Last 24 Hrs - 2 2/Model- 1800 Last 30 Days- 35 2rument- 64 Last 90 Days- 105 1-Eng - 20	
Instrument Rating(s) - AIRPLANE -Narrative PLT PRPTD THAT AFTER MAKING A SEA LANDING KTS WITH GUSTS TO 45 KTS. HE ELECTED TO TA VE THE WATER, THE ACFT ROLLED ABRUPTLY TO OSITE AILERON, BUT THE ACFT CONTACTED THE RIGHT FLOAT RUPTURED & THE RIGHT FLOAT ST THE WATER.	NEAR RASPBERRY STRAIT, THE WIND VELO KE OFF TOWARD THE WEST FOR THE RETURN THE RIGHT & ITS NOSE PITCHED DOWNWARD WATER BEFORE HE COULD RECOVER. DRG IN	N FLT. HE SAID THAT AT ABOUT 100 FT D. HE CORRECTED WITH FULL POWER & MPACT, THE 2 FRONT COMPARTMENTS OF	

File No. - 1423 12/28/89 KODIAK,AK A/C Reg. No. N67691 Time (Lcl) - 1400 AST

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

Finding(s)

- 1. WEATHER CONDITION HIGH WIND
- 2. WEATHER CONDITION GUSTS
- 3. WEATHER CONDITION TURBULENCE
- 4. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 5. AIRCRAFT CONTROL NOT MAINTAINED PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF

Finding(s)

6. TERRAIN CONDITION - WATER

7. LANDING GEAR, FLOAT ASSEMBLY - OVERLOAD

----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, WHICH RESULTED IN LOSS OF AIRCRAFT CONTROL DURING TAKEOFF, AND SUBSEQUENT IMPACT WITH THE WATER. THE WEATHER CONDITIONS WERE CONTRIBUTING FACTORS.

File No 1415 12/29/89 TAN	ANA, AK A,	/C Reg. No. N7615S	Т	ime (Lcl) -	1330 AST	
Basic Information Type Operating Certificate-NONE (GENE Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91		craft Damage BSTANTIAL e C NE P	Fatal Crew 0 Cass 0	Injur: Serious 0 0	ies Minor 0 0	
Aircraft Information Make/Model - CITABRIA 7ECA Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1650 No. of Seats - 2						 - YES/NO - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 260/006 KTS Visibility - 30.0 SM Lowest Sky/Clouds - 8000 FT SC Lowest Ceiling - 12000 FT BROOBSTRUCTIONS to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary NG Last Departure Po FAIRBANKS, AK Destination LOCAL ATC/Airspace	oint	Airport OFF AI Airport Runway Runway	Proximity RPORT/STRIP Data	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND		Medical Certif F S Total Make/Model -34 Instrument Multi-Eng	icate - VALID light Time (H - 445 - 410 - 11 - 15	MEDICAL-WAI ours) Last 24 Last 30 Last 90	VERS/LIM Hrs - 3 Days- 20 Days- 42	TT
Instrument Rating(s) - NONENarrative HE PILOT REPORTED THAT HE WAS USING HIS AID NOW COVERED LAKE, THE RIGHT MAIN GEAR AXLE ROM THE GEAR LEG AND THE AIRPLANE WAS FURTH AD FAILED DUE TO THE CUMULATIVE EFFECTS OF D INHERENT FLAW OR DESIGN PROBLEM WITH THE	BOLT (HOLDING THE SKI TO HER DAMAGED BEFORE IT CAME CONSISTENTLY LANDING ON F	THE GEAR LEG) FAIL TO REST. THE PILO	ED. THE SKI T T BELIEVED TH	HEN SEPARATE E AXLE BOLT	 GD	

File No. - 1415 12/29/89 TANANA,AK A/C Reg. No. N7615S Time (Lcl) - 1330 AST

Occurrence #1

MAIN GEAR COLLAPSED

Phase of Operation LANDING

Finding(s)

1. LANDING GEAR, AXLE - FAILURE, TOTAL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE RIGHT MAIN GEAR AXLE BOLT.

File No 1532 6/11/89 GUNTER	SVILLE, AL A/C	Reg. No. N8203	Ti	ime (Lcl) -	1700 CST	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AVIATION) Aircr DEST Fire ON G	aft Damage ROYED Crew ROUND Pass	Fatal 0 0	Injuri Serious 0 0	ies Minor 1 0	None 0 0
Aircraft Information Make/Model - HADLEY TEENIE TWO Landing Gear - TRICYCLE-FIXED Max Gross Wt - 750 No. of Seats - 1	Eng Make/Model - Number Engines - Engine Type - Rated Power -	VOLKSWAGON 1600CC 1 RECIPROCATING-CARBURE 65 HP	ELT 3 St ETOR	Installed/Acall Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 220/008 KTS Visibility - 4.000 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 10000 FT BROKED Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poi GUNTERSVILLE,AL Destination ONONETA,AL ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg		Airport I	RPORT/STRIP	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 38 Biennial Flight Review Current - YES Months Since - 12 Aircraft Type - C182	Medical Certificat Fligh Total - 5(Make/Model- 7 Instrument- Multi-Eng -	nt Time (Ho	uire)		
Narrative WHILE CRUISING AT 2000 FT MSL OVER HILLY/WOODER SUITABLE AREA FOR LANDING. HE TRIED TO LAND IN AVOIDING OBSTRUCTIONS, THE ACFT CRASH LANDED, TO AUTHORITIES COULD MAKE AN ON-SCENE INVESTIGATION	N AN OPENING NEAR A HIGH THEN WAS EXTENSIVELY DAM	POWER. THE PILOT WAS	LINES & AN	EMBANKMENT.	WHILE	

File No. - 1532 6/11/89 GUNTERSVILLE, AL

A/C Reg. No. N8203

Time (Lcl) - 1700 CST

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF

Phase of Operation CRUISE - NORMAL

Finding(s)

1. REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING

Finding(s)

2. TERRAIN CONDITION - NONE SUITABLE

3. TERRAIN CONDITION - HIGH OBSTRUCTION(S)

4. TERRAIN CONDITION - DIRT BANK

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: UNDETERMINED. FACTORS RELATED TO THE ACCIDENT WERE: LACK OF A SUITABLE LANDING AREA, HIGH OBSTRUCTIONS, AND A DIRT BANK.

File No 1473 6/16/89 BIRM	NGHAM, AL A/C Re	eg. No. N48257	Time (Lcl	.) - 1500 CDT
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION) Aircraft SUBSTAN Fire NONE	Damage TIAL Crew Pass	Ir Fatal Seriou 0 0 0 0	njuries Is Minor None 0 1 0 0
Aircraft Information Make/Model - CESSNA R172E Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2350 No. of Seats - 4				
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 300/006 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 3500 FT SCAT	Itinerary Last Departure Point CULLMAN,AL Destination SAME AS ACC/INC	- NONE	Airport Proximit ON AIRPORT Airport Data BIRMINGHAM MUN	.y
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - AIRPLANE	Age - 59 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - UNK/NR	Medical Certificate Flight Total - 648 Make/Model- 28 Instrument-	e - VALID MEDICAI t Time (Hours) 8 Last Last 94 Last	J-NO WAIVERS/LIMIT 2 24 Hrs - 2 3 30 Days- UNK/NR 2 90 Days- 6
THE PILOT REPORTED THAT WHEN SHE WAS ESTABLIS SPEED BECAUSE OF TWO FIGHTERS BEHIND HER. SHE TO THE FBO. WHEN SHE WAS OVER THE RUNWAY AND LANDING. SUBSEQUENTLY, WHILE SHE WAS ATTEMPTITHE PILOT (OF N48257) DID NOT INFORM THE TOWE	COMPLIED. SHE PLANNED TO LAWAS SLOWING TO LAND, THE CONTROL TO COMPLY, THE AIRCRAFT I	AND LONG AND TURN OF TROLLER INSTRUCTED ANDED HARD, WHICH I	NTO THE NEAREST T HER TO EXPEDITE BUCKLED THE FIRE	AXIWAY THE

File No. - 1473 6/16/89

BIRMINGHAM, AL

A/C Reg. No. N48257

Time (Lcl) - 1500 CDT

Occurrence #1 HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. FLARE - IMPROPER - PILOT IN COMMAND

2. PRESSURE INDUCED BY OTHERS - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLARE BY THE PILOT, WHICH RESULTED IN A HARD LANDING. THE FACT THAT THE PILOT WAS ASKED TWICE TO EXPEDITE THE LANDING CREATED PRESSURE ON THE PILOT AND WAS CONSIDERED TO BE A FACTOR.

File No 1471 9/17/89 SEMME		A/C Reg. No.			ime (Lcl)		
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Inju: Serious 0 0	ries Minor 0 0	None 1 1
Aircraft Information Make/Model - AERONCA 7AC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1300 No. of Seats - 2	To a Mala a /M	- d-1 COMMINICALINA				·	VEC /NO
Environment/Operations Information Weather Data Wy Briefing - NO PECOPD OF RETEFING	Itinerary Last Departi SAME AS AG	ure Point CC/INC		Airport ON AIR Airport GRIMES Runway Runway Runway	Proximity PORT Data FIELD	- 05 - 1800/ - GRASS/TU	100
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 44 Biennial Flight Re Current Months Since Aircraft Type	Medical eview - YES Tota - 1 Make - 7AC Inst	Certificat Fligh al - 26 e/Model- 3 trument-	e - VALID t Time (H 7	MEDICAL-No ours) Last 2 Last 30 Last 90) WAIVERS/: ! Hrs - UN:) Days- 9) Days- 9	LIMIT K/NR
Instrument Rating(s) - NONE							
AFTER AN ANNUAL INSPECTION WAS COMPLETED, THE ORDERED. DURING THE REPLACEMENT, HE NOTICED THE IT WOULD BE SATISFACTORY. HE THEN REFUELED THE MINUTE FLIGHT, A PASSENGER BOARDED THE AIRCRAITHE ENGINE LOST POWER. THE PILOT MADE AN EMERGAFTER THE ACCIDENT, THE PILOT DISCOVERED THAT THAT DURING THE LANDING SEQUENCE, THE FUEL CAUBEGAN RUNNING AGAIN.	HAT THE NEW GASKET AIRCRAFT AND MADE T AND THE PILOT TO GENCY LANDING, BUT THE FUEL CAP VENT	WAS NOT EXACTLY SE SEVERAL TAKEOFFS OOK OFF AGAIN. DUI WAS UNABLE TO STO HAD BECOME BLOCKI	LIKE THE OR S AND LANDI RING THE IN OP THE AIRC ED BY THE N	IGINAL, B NGS. AFTE ITIAL CLI RAFT BEFO EW GASKET	UT HE THOUG R ABOUT A 3 MB AFTER TA RE IT HIT 3 . ALSO, HE	GHT 30 KEOFF, TREES. NOTED	

File No. - 1471 9/17/89 SEMMES, AL

A/C Reg. No. N83732

Time (Lcl) - 1805 CDT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. FUEL SYSTEM, CAP -

- 2. MAINTENANCE, REPLACEMENT IMPROPER PILOT IN COMMAND
- 3. FUEL SYSTEM, VENT BLOCKED (TOTAL)

4. FLUID, FUEL - STARVATION

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 IN FLIGHT 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: IMPROPER REPLACEMENT OF THE FUEL CAP GASKET BY THE PILOT, WHICH RESULTED IN A BLOCKED FUEL CAP VENT AND FUEL STARVATION. TREES IN THE EMERGENCY LANDING AREA CONTRIBUTED TO AIRCRAFT DAMAGE.

File No 1525 9/06/89 HORAT	IO,AR A/C Reg	. No. N10GF	Time (Lcl) - 1130 CDT	
Type Operation	L AVIATION) Aircraft SUBSTANT Fire NONE	Damage IAL Crew Pass	In Fatal Seriou 0 0 0 0	juries s Minor 1 1	None 0 0
Aircraft Information Make/Model - PIETENPOL AIR CAMPER B42 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 900 No. of Seats - 2	Number Engines - 1 Engine Type - RECI	INENTAL A-65 PROCATING-CARBURET 65 HP	ELT Installe Stall War OR	d/Activated - ning System -	- UNK/NR - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 210/006 KTS Visibility - 6.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 1000 FT OVERG Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Destination ANTLERS,OK ATC/Airspace Type of Flight Plan -	NONE NONE	Airport Proximit OFF AIRPORT/ST Airport Data Runway Ident Runway Lth/Wid Runway Surface Runway Status	RIP - N/A - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 38 M Biennial Flight Review Current - YES Months Since - 7 Aircraft Type - UNK/NR	edical Certificate Flight Total - 450 Make/Model- 6 Instrument- UNK Multi-Eng - UNK	- VALID MEDICAL Time (Hours) 0 Last Last /NR Last /NR Roto	-NO WAIVERS/I 24 Hrs - 1 30 Days- UNK 90 Days- UNK rcraft - UNK	JIMIT C/NR K/NR K/NR
THE PILOT SAID THAT DURING A CROSS COUNTRY PER DURING A FORCED LANDING. A POST ACCIDENT INVESTACCORDING TO ICING PROBABILITY CHARTS, METEORO OF THE ACCIDENT.	STIGATION FAILED TO REVEAL AN	Y ENGINE ABNORMALI	TIES OR MALFUNCT	IONS.	

File No. - 1525 9/06/89 HORATIO, AR A/C Req. No. N10GF Time (Lcl) - 1130 CDT

Occurrence #1 LOSS OF ENGINE POWER (TOTAL) - NON-MECHANICAL Phase of Operation CRUISE

Finding(s)

1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS

2. CARBURETOR HEAT - IMPROPER USE OF - PILOT IN COMMAND

3. FUEL SYSTEM, CARBURETOR - ICE

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY Occurrence #2

FORCED LANDING

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF CARBURETOR HEAT BY THE PILOT, WHICH RESULTED IN CARBURETOR ICE. A FACTOR RELATED TO THE ACCIDENT WAS: CARBURETOR ICING CONDITIONS.

File No 1401 7/15/89 ELOY,	AZ A/C Reg. No. N5252	Time (Lcl) - 0715 MST
Basic Information Type Operating Certificate-AGRICULTURAL Type of Operation -AERIAL APPLI	AIRCRAFT Aircraft Damage SUBSTANTIAL CATION Fire Crew NONE Pass	Injuries Fatal Serious Minor None 0 0 0 1 0 0 0 0
Aircraft Information	Eng Make/Model - P&W R-1340 Number Engines - 1 Engine Type - RECIPROCATING-CARBURI Rated Power - 600 HP	
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 - 20.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR BROK	Itinerary Last Departure Point SAME AS ACC/INC	Airport Proximity OFF AIRPORT/STRIP Airport Data ELOY "Y" Punway Ident - N/A
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL, ATP SE LAND, ME LAND	Age - 46 Medical Certificat Biennial Flight Review Fligh Current - YES Total - 17 Months Since - 2 Make/Model - 60 Aircraft Type - G-164A Instrument - Multi-Eng -	te - VALID MEDICAL-WAIVERS/LIMIT ht Time (Hours) 1000
Instrument Rating(s) - AIRPLANE		
Narrative DRG TAKEOFF, ON A FLT TO MOVE THE ACFT TO ANO ALT OF ABOUT 150 FT. SUBSEQUENTLY, THE ACFT N AFTER THE ACDNT, THE PLT RPRTD THERE WAS ENOU EXAMINED AFTER THE ACDNT, VERY LITTLE FUEL WA MALFUNCTION OF THE ACFT OR ENG WAS FOUND.	OSED OVER DRG AN EMERGENCY LANDING ON DESERT T GH FUEL ON BOARD THE ACFT TO REACH THE DESTN.	TERRAIN. IN AN INTERVIEW HOWEVER, WHEN IT WAS

File No. - 1401 7/15/89 ELOY, AZ A/C Reg. No. N5252 Time (Lcl) - 0715 MST

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

2. FLUID, FUEL - STARVATION

3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND

Occurrence #2 FORCED LANDING

Phase of Operation DESCENT - EMERGENCY

Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL

Finding(s)

4. TERRAIN CONDITION - ROUGH/UNEVEN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INAEQUATE PREFLIGHT BY THE PILOT, WHICH RESULTED IN FUEL STARVATION DURING THE CLIMB AFTER TAKEOFF, DUE TO VERY LITTLE FUEL REMAINING IN THE TANKS. THE ROUGH/UNEVEN DESERT TERRAIN WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

File No 1484 7/28/89 MA	RANA, AZ	A/C Reg.	No. N61552	נ	lime (Lcl) -	0927 MST	
Type Operating Certificate-NONE (GEN) Type of Operation -INSTRUCTIC Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	ERAL AVIATION)	Aircraft D SUBSTANTI Fire NONE	amage AL C: Pa	ass 0	0	0	None 2 0
Aircraft Information Make/Model - CESSNA 172M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Eng Make/I Number En Engine Ty	Model - LYCOM gines - 1 pe - RECIP	ING 0-320	ELT S BURETOR	Installed/Actall Warning	ctivated - g System -	- YES
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- UNK/NR Visibility - 40.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart TUCSON, A: Destination LOCAL	ture Point Z n		Airport OFF AI Airport Runway	Proximity RPORT/STRIP	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 22 Biennial Flight I Current Months Since Aircraft Type	Me Review - UNK/NR - UNK/NR e - UNK/NR	dical Certifi Fl Total Make/Model- Instrument- Multi-Eng	icate - VALID Light Time (H - 1200 - UNK/NR - UNK/NR - UNK/NR	MEDICAL-WAI Jours) Last 24 Last 30 Last 90 Rotorcra	VERS/LIMI Hrs - UNE Days- UNE Days- UNE ft - UNE	IT K/NR K/NR K/NR K/NR
Instrument Rating(s) - AIRPLANENarrative EFFORE TAKING OFF ON A FLT FOR A BIENNIAL E ORD THAT ABOUT 20 GAL OF FUEL WAS ON BOARI O DIP STICK WAS USED TO MEASURE THE QUANTI S THE STUDENT WAS MAKING A GO-AROUND FROM BOUT 1 TO 2 MINS LATER, THE ENG LOST POWEL IT A SAGUARO (TREE LIKE) CACTUS DRG AN EME	LT REVIEW, THE PVT I THE OPERATOR RPRTI TY OF FUEL BEFORE TO A SIMULATED FORCED I R AGAIN, BUT WOULD NO	PLT PREFLIGHT D THE CFI WAS AKEOFF. AFTER LNDG, BUT FUL OT RESTART. S	ED THE ACFT & AWARE THAT T ABOUT 35 MIN L POWER RESUN UBSEQUENTLY,	THE INSTRUCT THE LEFT FUELT THE OF FLT, THE MED WHEN THE THE ACFT WAS	TOR (CFI) TO GAGE WAS IN ENG LOST PO NOSE WAS LOW DAMAGED WHE	OOK HIS IOP. OWER VERED.	

File No. - 1484 7/28/89 MARANA, AZ A/C Reg. No. N61552 Time (Lcl) - 0927 MST

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation CRUISE

Finding(s)

- 1. AIRCRAFT PREFLIGHT INADEQUATE DUAL STUDENT
- 2. SUPERVISION INADEQUATE PILOT IN COMMAND(CFI)
- 3. ENGINE INSTRUMENTS, FUEL QUANTITY GAGE INOPERATIVE
- 4. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT INTENTIONAL PILOT IN COMMAND(CFI)
- 5. FLUID, FUEL EXHAUSTION
- 6. FUEL SUPPLY INADEQUATE -

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL

Finding(s)

7. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT BY THE STUDENT PILOT, INADEQUATE SUPERVISION BY THE FLIGHT INSTRUCTOR (CFI), AND FUEL EXHAUSTION DUE TO LACK OF FUEL. RELATED FACTORS WERE: INOPERATIVE LEFT FUEL QUANTITY GAGE, THE CFI'S DECISION TO MAKE THE FLIGHT WITH A KNOWN DEFICIENCY IN THE FUEL GAGE, AND OBSTRUCTIONS (TREE LIKE CACTUS) IN THE EMERGENCY LANDING AREA.

File No 14	63 8	/10/89	SCOTTSDALE,	AZ A/	C Reg. No. N84	77B	T	ime (Lcl) -	1140 MST	
Flight Conduct Accident Occur	Certifica ion ed Under red During	-14 CFR -TAKEOF	91 F		raft Damage STANTIAL E	Crew Pass	Fatal 0 0	Injur Serious 0 0	ies Minor 1 0	None 0 0
Aircraft Informa Make/Model Landing Gear Max Gross Wt No. of Seats	tion - ROBINSON - SKID - 2400	R22		Eng Make/Model - Number Engines - Engine Type - Rated Power -	1 RECIPROCATING	0	ELT : St	Installed/A		
Lowest Ceili Obstructions Precipitatio Condition of	- NO RECO - N/A - N/A - VMC ded 240/00 - 40 clouds - ng - to Vision Light	ORD OF BR 4 KTS .0 SM 15000 F 20000 F	It IEFING AT T SCATTERED T BROKEN	Linerary Last Departure PosamE AS ACC/INC Destination LOCAL CC/Airspace Type of Flight Pl Type of Clearance Type Apch/Lndg	an - NONE	ATTERN	Runway Runway Runway	PORT Data DALE MUNI Ident - Lth/Wid -	CONCRETE	
		- NONE		32 al Flight Review arrent - N/A onths Since - N/A crcraft Type - N/A		rtificate Fligh - 34 odel- 34 ment-	e - VALID t Time (Ho	MEDICAL-NO purs) Last 24 Last 30 Last 90 Rotorcr	WAIVERS/I Hrs - 1 Days- 10 Days- 34 aft -	JA
Narrative E STUDENT PILOT WA S SECOND TAKEOFF, ID THE HELICOPER RO NTROL SYSTEM; NO P	HE LOST CON	NG TAKEOF NTROL OF '	FS AND LANDIN THE HELICOPTE RIGHT SIDE. A	R. DURING THE OCC A POST ACCIDENT IN	SUPERVISED SOL URRENCE, THE R	IGHT SKI	D CONTACT	ED THE GROU	ND	

File No 14	8/10/89	SCOTTSDALE, AZ	A/C Reg. No. 1	18477B	Time (Lcl) - 1140 MST
Occurrence #1 Phase of Operation	LOSS OF CONTROL -	- IN FLIGHT			
Finding(s) 1. FLIGHT CONTROLS 2. AIRCRAFT CONTROL					
Occurrence #2 Phase of Operation	IN FLIGHT COLLIST	ON WITH TERRAIN/WATE	CR		
Occurrence #3 Phase of Operation	ROLL OVER OTHER				
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPERLY USE OF THE FLIGHT CONTROLS BY THE PILOT AND HIS FAILURE TO MAINTAIN CONTROL OF THE HELICOPTER.

File No 1541 9/27/89 GRAND	CANYON, AZ	A/C Reg. No. N7	5GC	T	ime (Lcl) -	0953 MST	
Basic Information Type Operating Certificate-ON-DEMAND AI Name of Carrier -GRAND CANYON Type of Operation -NON SCHED, DOI Flight Conducted Under -14 CFR 135 Accident Occurred During -LANDING	R TAXI AIRLINES MESTIC, PASSENGER	Aircraft Damage DESTROYED Fire NONE	Crew Pass	Fatal 2 8	Injur Serious 0 9	ries Minor 0 2	None 0 0
Aircraft Information Make/Model - DEHAVILLAND DHC-6-300 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 12500 No. of Seats - 21	Eng Make/Mo Number Eng: Engine Type Rated Powe	odel - P&W PT6A-27 ines - 2 e - TURBOPROP c - 620 HP		ELT S	Installed/A tall Warnin	activated o	- UNK/NR - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - IN PERSON Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 160/007 KTS Visibility - 50.0 SM Lowest Sky/Clouds - 8000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departo SAME AS AG Destination LOCAL ATC/Airspace TERED Type of Flig	are Point CC/INC	(VFR)	Airport ON AIR Airport GRAND Runway Runway Runway	Proximity PORT Data CANYON Ident I+b/Wid -	· 21 · 8999/ : · ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP,CFI,COMMERCIAL SE LAND,ME LAND	Age - 47 Biennial Flight Re Current Months Since Aircraft Type	Medical C eview - YES Total - 1 Make/ - DHC-6 Instr Multi	ertificat Fligh - 41 Model- 26 ument- -Eng -	e - VALID t Time (H 20 10 214 2677	MEDICAL-NO ours) Last 24 Last 30 Last 90	WAIVERS/I Hrs - 5 Days- 79 Days- 29	 LIMIT 7
Instrument Rating(s) - AIRPLANE							
GRAND CANYON AIRLINES FLT 5 (DEHAVILLAND DHC-SEEING FLT. AFTER RTRNG FROM A NORMAL TRIP, THE WAS NORMAL, BUT THE ACFT TRAVELED ABOUT 1000' TRAVELED ANOTHER 1000' BEFORE TOUCHING DOWN AS (ABORTED LNDG). THE ACFT CLIMBED IN A NOSE HIS A WOODED HILL ABOUT 120' LEFT OF THE RWY. A PROBLEM EMERG RESPONSE TO THE CRASH. SURVIVING NARRATED THE TOUR; BUT AFTER A HARD TOUCHDOWN GO-AROUND. A SCRAPE MARK WAS FND WHERE THE RESPONSE TO THE CRASH.	HE FLT WAS CLEARED DOWN THE RWY AT AN GAIN. THE ACFT THEN GH ALT TO ABOUT 150 WR LINE WAS SEVEREIS PSGRS RPRTD THE FORTHER FOR	TO LAND ON RWY 21. ALT OF ABOUT 5' B. VEERED TO THE RGT 'TO 200' AGL, THE DURING IMPACT, WH GGT SEAT PLT WAS FL TOOK CTL OF THE A	OBSERVER: EFORE TOUG & THE FL' N IT ROLLI ICH INTER! YING THE A CFT & APP:	S RPRTD TI CHDOWN. RI T CREW IN ED TO THE UPTED ELE ACFT, WHI LIED FULL	HE APCH TO PRTDLY, IT ITIATED A G LEFT & CRA C PWR TO TH LE THE LEFT	THE ARPT BOUNCED & O-AROUND SHED ONTO E ARPT &	

Time (Lcl) - 0953 MST File No. - 1541 9/27/89 A/C Reg. No. N75GC GRAND CANYON, AZ

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

Finding(s)

1. FLARE - IMPROPER - COPILOT/SECOND PILOT

2. CREW/GROUP COORDINATION - IMPROPER -

3. RECOVERY FROM BOUNCED LANDING - IMPROPER - PILOT IN COMMAND

4. GO-AROUND - ATTEMPTED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PILOT TECHNIQUES AND CREW COORDINATION DURING THE LANDING ATTEMPT, BOUNCE, AND ATTEMPTED GO-AROUND.

File No 1474 9/28/89 FLAGS	TAFF, AZ A/C	Reg. No. N519TW	T	Time (Lcl) - 1243 MST			
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircr SUBS Fire NONE	aft Damage TANTIAL Cre Pas	Fatal w 0 s 0	Injur Serious 0 0	Minor	None 1 1	
Aircraft Information Make/Model - CESSNA 180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2550 No. of Seats - 4	Eng Make/Model - Number Engines - Engine Type - Rated Power -	RECIPROCATING-CARBU	S RETOR	tall Warnin			
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 140/004 KTS Visibility - 30.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poi LLANO,CA Destination SAME AS ACC/INC ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	n – VFR – VFR	ON AIR Airport PULLIA Runway Runway Runway	Data	6999/ ASPHALT	150	
COMMERCIAL SE LAND GLIDER	Age - 47 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - G-10	Medical Certific Fli Total - Make/Model- 3 Instrument- Multi-Eng -	wh+ mima /U	~··~ ~ \			
Instrument Rating(s) - NONE 							
NAITALTYE E PILOT STATED THAT AS HE STARTED TO USE THI AT HE "HAD NO LEFT BRAKE." AT THAT MOMENT, TAILWHEEL STEERING & HIS RUDDER WAS BECOMIN MAGED.	THE TAILWHEEL WAS STILL	SLIGHTLY ABOVE THE	RUNWAY SURF.	ACE, SO HE	HAD		

A/C Reg. No. N519TW Time (Lcl) - 1243 MST File No. - 1474 9/28/89 FLAGSTAFF, AZ

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

Finding(s)

1. LANDING GEAR, NORMAL BRAKE SYSTEM - FAILURE, TOTAL

- 2. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 3. GROUND LOOP/SWERVE UNCONTROLLED -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE LEFT BRAKE. THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL WITH RUDDER AND TAILWHEEL STEERING WAS CONSIDERED TO BE A RELATED FACTOR.

File No 1481 4/08/89 LONG		A/C Reg. No. N9456F			Time (Lcl) - 1110 PDT				
Basic Information	AL AVIATION) Aircra SUBST Fire NONE	ft Damage ANTIAL Crew Pass				None 0 1			
-Aircraft Information Make/Model - HUGHES 269B Landing Gear - SKID Max Gross Wt - 1670 No. of Seats - 3		YCOMING HIO-360-A1A 1 ECIPROCATING-CARBURE	ELT I		tivated -				
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 170/008 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC Destination LOCAL	- NONE - VFR	OFF AIR Airport I DAUGHER Runway	RTY FIELD Ident -	3T / 7				
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE HELICOPTER Instrument Rating(s) - NONE	Age - 40 Biennial Flight Review Current - YES Months Since - 15 Aircraft Type - R22	Medical Certificat Fligh Total - 18 Make/Model- 8 Instrument-	e - VALID t Time (Ho 3	MEDICAL-NO burs) Last 24 Last 30 Last 90	WAIVERS/I Hrs - 2 Days- 8 Days- 8	JIMIT			

File No. - 1481 4/08/89 LONG BEACH, CA A/C Reg. No. N9456F Time (Lcl) - 1110 PDT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation CRUISE - NORMAL

Finding(s)

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

2. FLUID, FUEL - EXHAUSTION

3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND

4. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND

Occurrence #2 FORCED LANDING

Phase of Operation DESCENT - EMERGENCY

Finding(s)

5. AUTOROTATION

Occurrence #3 HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

----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, WHICH LED TO AN INADEQUATE SUPPLY OF FUEL TO REACH THE AIRPORT AND SUBSEQUENT FUEL EXHAUSTION. THE PILOT'S LACK OF FLIGHT TIME IN THIS MAKE AND MODEL OF HELICOPTER WAS CONSIDERED TO BE A FACTOR.

File No 1416 5/27/89 RIABasic Information Type Operating Certificate-NONE (GENE		Airaraft D	No. N90HS amage AL		Time (Lcl) - Injur Serious		
Type of Operation -TEST FLIGH Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	IT	SUBSTANTI Fire NONE	Cre Pas	w 0 s 0	1 0	0	0
Aircraft Information Make/Model - HOLMAN/SEARS HS-1 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 851 No. of Seats - 1	Engine '	e/Model - ITAL- Engines - 1 Type - RECIP ower - 3	ROCATING-CARBU		Installed/A Stall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed 340/002 KTS Visibility - 5.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	SAME A Destinat LOCAL ATC/Airspa Type of I Type of	ce Flight Plan - N	ONE	OFF A Airport RIALT Runwa Runwa Runwa		24 4500/ ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE GLIDER Instrument Rating(s) - NONE	Age - 51 Biennial Fligh Current Months Sin Aircraft T	Me t Review - UNK/NR ce - UNK/NR ype - UNK/NR	dical Certifica Flic Total - 1 Make/Model - 1 Instrument - 1 Multi-Eng - 1	32 JNK/NR JNK/NR	Last 24 Last 30 Last 90	Hrs - UNI Days- UNI Days- UNI	K/NR K/NR K/NR
Narrative E PILOT/CO-OWNER HAD ONLY A GLIDER CERTIE IGHT. AFTER DEPARTING ON RUNWAY 24, HE IN ABOUT 200 FT AGL, THE AIRPLANE ENTERED A VEALED THE PILOT HAD ABOUT 82 HRS OF FLIG	ITIATED A RIGHT T SPIN & IMPACTED '	URN ABOUT 3/4 M THE GROUND IN A	ILE WEST OF THE VERTICAL DESCE	E AIRPORT. ENT. AN IN	WHILE TURNI VESTIGATION	ng	

File No. - 1416 5/27/89 RIALTO,CA A/C Reg. No. N90HS Time (Lcl) - 1126 PDT

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

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. QUALIFICATION PILOT IN COMMAND
- 3. OVER CONFIDENCE IN PERSONAL ABILITY PILOT IN COMMAND
- 4. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 5. STALL/SPIN INADVERTENT PILOT IN COMMAND
- 6. LACK OF FAMILIARITY WITH 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: FAILURE OF THE PILOT TO MAINTAIN SUFFICIENT AIRSPEED, WHILE TURNING AFTER TAKEOFF, WHICH RESULTED IN A STALL/SPIN. CONTRIBUTING FACTORS WERE: IMPROPER PLANNING/DECISION BY THE PILOT BY TEST FLYING AN AIRPLANE THAT HE WAS NOT PROPERLY CERTIFICATED TO OPERATE, HIS LACK OF FAMILIARITY WITH THE AIRCRAFT, AND OVERCONFIDENCE IN HIS PERSONAL ABILITY.

File No 1461 6/20/89 PASC	ROBLES, CA	A/C Reg. No. No.	69549	Time (Lcl) - 1315 PDT				
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	RAL AVIATION)			Fatal S	Injur Serious 0 0	ies Minor 0 0	None 1 0	
Aircraft Information Make/Model - CESSNA 340 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5975 No. of Seats - 6	Eng Make/Mod Number Engin	el - CONTINENTAL es - 2	TSIO-520	ELT In: Sta		ctivated - g System -		
Environment/Operations Information Weather Data. Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- UNK/NR Visibility - 40.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary		7.	Airport Pro ON AIRPOR Airport Dat PASO ROBI Runway Id Runway St Runway St	oximity RT ta LES dent - th/Wid - urface - tatus -	31 4700/ 1 ASPHALT DRY	100	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE								
AS THE AIRPLANE WAS ON FINAL APPROACH TO LAN PUMP SWITCHES TO THE HIGH POSITION AND SWITCH REALIZING THERE WAS INSUFFICIENT ALTITUDE TO BUT IT COLLIDED WITH TREES. AN INVESTIGATION AND THAT THE MAIN FUEL TANKS WERE EMPTY; HOW THE AUXILIARY FUEL SUPPLY WAS TO BE USED IN PUMP WOULD RESULT IN FUEL NOT BEING AVAILABLE	ID, BOTH ENGINES LOST : HED THE FUEL SELECTOR REACH THE RUNWAY, HE REVEALED NO FUEL QUA EVER, BOTH AUXILIARY : CRUISE FLIGHT ONLY AN	POWER. THE PILOT VALVES TO THE AUMANEUVERED THE AUMANEUT INDICATORS FUEL TANKS WERE ED THAT FAILURE OF	UXILIARY TAN AIRPLANE TO WERE INSTAL FULL. THE OW	NKS, BUT TO MISS SOME LLED IN THE VNER'S MANU) NO AVAI STRUCTURI E AIRPLANI JAL STATEI	ES, E D THAT		

File No. - 1461 6/20/89 PASO ROBLES, CA A/C Reg. No. N69549 Time (Lcl) - 1315 PDT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

1. ALL ENGINES -

2. ENGINE INSTRUMENTS, FUEL QUANTITY GAGE - NOT INSTALLED

3. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT - PERFORMED - PILOT IN COMMAND

4. FLUID, FUEL - STARVATION

5. FUEL SYSTEM - IMPROPER USE OF - PILOT IN COMMAND

Occurrence #2 FORCED LANDING Phase of Operation LANDING

Occurrence #3 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

6. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE (MISMANAGEMENT) OF THE FUEL SYSTEM BY THE PILOT, WHICH RESULTED IN FUEL STARVATION. RELATED FACTORS WERE: THE LACK OF FUEL QUANTITY INDICATORS (NOT INSTALLED) IN THE AIRCRAFT, FLIGHT BY THE PILOT WITH THIS KNOWN DEFICIENCY, AND TREES IN THE EMERGENCY LANDING AREA.

File No 1533 6/22/89 NEWHA	ALL,CA	A/C Reg. No. N28LR			Time (Lcl) - 1411 PDT				
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION)	Aircraft Damage DESTROYED Fire NONE				ries Minor 0 0	None 0 0		
Aircraft Information Make/Model - AEROSPATIALE TB-21 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3086 No. of Seats - 4									
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 140/010 KTS	Itinerary Last Departu SACRAMENTO Destination VAN NUYS,C	re Point ,CA A		Airport DOFF AIR Airport DOFF NUMBER	Proximity RPORT/STRIP Data YS Ident -	· N/A			
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, ME LAND Instrument Rating(s) - AIRPLANE	Age - 66 Biennial Flight Re Current Months Since Aircraft Type	Medical C view - YES Total - 7 Make/ - TB-21 Instr	ertificate Flight - 126 Model- 444 ument- -Eng -	- VALID Time (Ho 9 30 447	MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotorcr	IVERS/LIMI Hrs - 3 Days- 9 Days- 29 aft -	0		
THE PLT RPRTD TO THE TOWER CTLR THAT HE WAS E "QUIT". AS THE PLT WAS MAKING AN EMERGENCY I INVESTIGATION REVEALED CONTAMINANTS IN THE AI SELECTOR VALVE FILTER, NOR WAS HE TOLD ABT THE BEEN CHECKED FOR CONTAMINANTS BY AN FBO BEFOR REINSTALLING MECH DRAINED ABT 1/2 GAL OF FUEI THE MAINT MANUAL.	NDG, THE AIRPLANE C RFRAME & ENG FUEL S HE DRAIN WHEN HE WAS RE THE PLT DEPD ON T	OLLIDED WITH A TRA YSTEMS. RPRTDLY, T CHECKED OUT BY TH HE ACDNT FLT. THE	NSMISSION HE PLT HAD E MFG SALE FUEL SERVO	WIRE & CH NEVER DH S REP. TH WAS CLEA	RASHED. AN RAINED THE HE FUEL SYS ANED & THE	FUEL TEM HAD			

File No. - 1533 6/22/89 NEWHALL,CA A/C Reg. No. N28LR Time (Lcl) - 1411 PDT

Occurrence #1 LOSS OF ENGINE POWER Phase of Operation CRUISE - NORMAL

Finding(s)

1. FLUID, FUEL - CONTAMINATION

2. MAINTENANCE - INADEQUATE - OTHER MAINTENANCE PSNL

3. LACK OF FAMILIARITY WITH AIRCRAFT - PILOT IN COMMAND

4. INADEQUATE TRANSITION/UPGRADE TRAINING -

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

5. OBJECT - WIRE, TRANSMISSION

Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL CONTAMINATION, DUE TO THE PILOT'S LACK OF FAMILIARITY WITH THE AIRCRAFT FUEL SYSTEM, AND INADEQUATE MAINTENANCE. A RELATED FACTOR WAS: INADEQUATE TRANSITION TRAINING.

File No 1446 7/02/89 CHUAI	AR,CA A/C Reg. No. N81D	Time (Lcl) - 1400 PDT
Type Operation -TEST FLIGHT Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	AL AVIATION) Aircraft Damage SUBSTANTIAL Fire Cr NONE Pa	Injuries Fatal Serious Minor None rew 0 1 0 0 ass 0 0 0 0
Aircraft Information Make/Model - PROGRESS AERO R&D DISCO Landing Gear - UNK/NR Max Gross Wt 1400	OVERY Eng Make/Model - LYCOMING 0-235 Number Engines - 1 Engine Type - RECIPROCATING-CARB Rated Power - 112 HP	ELT Installed/Activated - YES/NO Stall Warning System - NO
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 125/015 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point MONTEREY, CA Destination LOCAL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - FORCED LANDING	Airport Proximity OFF AIRPORT/STRIP Airport Data Runway Ident - N/A Runway Lth/Wid - N/A Runway Surface - N/A Runway Status - N/A
	Age - 34 Medical Certifi Biennial Flight Review Fl Current - YES Total - Months Since - 3 Make/Model- Aircraft Type - B-747 Instrument- Multi-Eng -	.cate - VALID MEDICAL-WAIVERS/LIMIT .ight Time (Hours) - 12000
Narrative THE EXPERIMENTAL COMPOSITE STRUCTURED ACFT WA FROM WHICH THE PLT WAS UNABLE TO RECOVER BY U THE PLT DEPLOYED THE CHUTE & SHUT DOWN THE EN OF ABOUT 1800 FT/MIN. DRG TOUCHDOWN, THE PLT SURFACES RESPONDED NORMALLY TO HIS CONTROL IN IDENTIFIED.	SING NORMAL CONTROLS. THE ACFT WAS EQUIPPED G. SUBSEQUENTLY, THE ACFT TOUCHED DOWN WITH SUFFERED NECK & BACK INJURIES. HE RPRTD THA	WITH A BALLISTIC PARACHUTE. I A PARACHUTE DESCENT RATE IT DRG THE FLT, ALL FLT CONTROL

File No. - 1446 7/02/89 CHUALAR, CA A/C Reg. No. N81D Time (Lcl) - 1400 PDT

LOSS OF CONTROL - IN FLIGHT Occurrence #1

Phase of Operation CRUISE

Finding(s)

1. AIRSPEED - REDUCED - PILOT IN COMMAND

2. STALL/SPIN - INADVERTENT -

3. REMEDIAL ACTION - INITIATED - PILOT IN COMMAND

4. EMERGENCY PROCEDURE - PERFORMED - 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 EXPERIMENTAL AIRCRAFT'S INADVERTENT ENTRY INTO A NON-RECOVERABLE FLAT SPIN DURING A SLOW AIRSPEED TEST; THE AERODYNAMIC CHARACTERISTICS THAT PRODUCED THE SPIN WERE NOT DETERMINED.

File No 1482 7/30/89 CORON	A,CA	A/C Reg.	T	Time (Lcl) - 1650 PDT				
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -FERRY Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft [SUBSTANT] Fire NONE	amage	Fatal	Inju: Serious	ries Minor		
Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2450 No. of Seats - 4							- YES/YES - YES	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 225/025 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depar HUNTINGT Destinatio CORONA,C	ture Point ON BCH,CA n		Airport OFF AI Airport	Proximity RPORT/STRIE	- N/A - N/A - N/A		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 57 Biennial Flight Current Months Since Aircraft Typ	Me Review - NO - UNK/NR e - UNK/NR	dical Certifica Flic Total - 9 Make/Model - 0 Instrument - 1 Multi-Eng -	ate - VALID ght Time (H 900 540 UNK/NR 0	MEDICAL-NG ours) Last 24 Last 30 Last 90 Rotorcr	MAIVERS/I Hrs - 0 Days- 0 Days- 0	LIMIT 0	
Instrument Rating(s) - NONENarrative E ACFT HAD BEEN PARKED FOR SVRL YEARS AT AN RRYING THE ACFT TO A NEW LCTN, THE PLT DRAIN TH 22 GAL OF FRESH FUEL, BUT DID NOT OBTAIN	ARPT THAT WAS BE NED THE FUEL TANK	ING CLOSED. I	TS LAST ANNUAL L THRU THE LINE	INSPN WAS	IN NOV 1986 ASCOLATOR &	5. BEFORE 2 SVCD IT		
CTRD TURBULENCE. HE REDUCED POWER TO 1800 R E ENG DID NOT RESPOND. THE PLT SAID HE TURN DD & CHECKED THE MAGNETOS (BUT HE DID NOT I MAGED WHEN IT HIT TREES DRG AN EMERGENCY LAI CONTAMINATION WAS FOUND IN THE FUEL SYSTEM ING CHARTS, CONDITIONS WERE CONDUCIVE FOR C	PM TO SLOW THE AC ED ON THE BOOST P NDICATE THAT HE H NDING. THE PLT RP . THE TEMP & DEW	FT & BEGAN A UMP, SWITCHED AD TURNED ON RTD THAT FUEL	DSCNT. WHEN THE FUEL TANKS, NO THE CARB HEAT). WAS STILL REMA	THROTTLE TED THE FU SUBSEQUEN AINING IN T	WAS ADVANCE EL PRESSURE TLY, THE AC HE ACFT & N	D AGAIN, WAS OFT WAS NO WATER		

File No. - 1482 7/30/89 CORONA,CA A/C Reg. No. N7341W Time (Lcl) - 1650 PDT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE

Finding(s)

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

3. FUEL SYSTEM, CARBURETOR - ICE

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Finding(s)

- 4. EMERGENCY PROCEDURE IMPROPER PILOT IN COMMAND
- 5. LACK OF RECENT EXPERIENCE PILOT IN COMMAND

Occurrence #3 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

6. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
CONTINUED BUILDUP OF CARBURETOR ICE DUE TO THE PILOT'S IMPROPER USE OF CARBURETOR HEAT, AND HIS IMPROPER USE OF
EMERGENCY PROCEDURES. FACTORS RELATED TO THE ACCIDENT WERE: CARBURETOR ICING CONDITIONS, THE PILOT'S LACK OF RECENT
FLIGHT EXPERIENCE, AND TREES IN THE EMERGENCY LANDING AREA.

File No 1462 8/04/89 RIO L	INDA,CA A/C Re	eg. No. N84709	Time	(Lcl) - 0920 PDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircrafi SUBSTAI Fire NONE	: Damage ITIAL Crew Pass	Fatal Ser 0 0	Injuries rious Minor 0 0 0 0	None 1 1
Aircraft Information Make/Model - AERONCA 7AC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1300 No. of Seats - 2	Eng Make/Model - COI Number Engines - 1 Engine Type - REC Rated Power -	TINENTAL C-85-12 CIPROCATING-CARBURE 85 HP	ELT Insta Stall TOR	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- LIGHT AND VARIABLE	Itinerary		Airport Proxi ON AIRPORT Airport Data RIO LINDA Runway Ider Runway Ith	ut - 17 Wid - 2620/ Tace - ASPHALT	42
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 59 Biennial Flight Review Current - YES Months Since - 15 Aircraft Type - BE-C33	Medical Certificat Fligh Total - 13 Make/Model- 12 Instrument-	e - VALID MEDI t Time (Hours) 47 I 3 I	CAL-WAIVERS/LIM ast 24 Hrs - UN ast 30 Days- 17 ast 90 Days- 36	IT K/NR
Instrument Rating(s) - NONE					
Narrative THE PLT FLEW FROM SACRAMENTO TO RIO LINDA, LI NOTICED AN IMPROPER INDCN OF THE AIRSPEED IND OPENING & CONTINUED TO RIO LINDA. ON ARRIVAL, AIRSPEED MAY HAVE BEEN TOO HIGH (OR TOO LOW), AGAIN, SO HE INITIATED A GO-AROUND. DRG THE GO CARBURETOR HEAT. AS HE WAS LOOKING FOR THE CAI TOWARD THE WIND TEE & A FENCE WHICH PARALLELES TAILWHEEL STRUCK THE FENCE.	ICATOR (WHICH WAS READING TO THE ACFT BOUNCED DRG AN ATT CAUSING THE ACFT TO BOUNCE. D-AROUND, HE BECAME DISTRACT RBURETOR HEAT CONTROL, THE A	O LOW). HE ASSUMED EMPTED "WHEEL LAND HE CONTINUED THE ED BY HIS INABILIT CFT ANGLED OFF THE	A BUG HAD BLO ING." THE PLI LANDING, BUT T Y TO LOCATE & RWY TO THE RI	CKED THE PITOT BELIEVED THE HE ACFT BOUNCED TURN OFF THE GHT & HEADED	

File No. - 1462 8/04/89 RIO LINDA, CA A/C Reg. No. N84709 Time (Lcl) - 0920 PDT

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

Finding(s)

- 1. FLIGHT/NAV INSTRUMENTS, AIRSPEED INDICATOR FALSE INDICATION
- 2. FLARE ATTEMPTED PILOT IN COMMAND
- 3. RECOVERY FROM BOUNCED LANDING PERFORMED PILOT IN COMMAND
- 4. ABORTED LANDING INITIATED PILOT IN COMMAND
- 5. CARBURETOR HEAT IMPROPER USE OF PILOT IN COMMAND
- 6. LACK OF FAMILIARITY WITH AIRCRAFT PILOT IN COMMAND
- 7. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND
- 8. DIVERTED ATTENTION PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - ABORTED

Finding(s)

9. OBJECT - FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN PROPER RUNWAY ALIGNMENT DURING AN ABORTED LANDING. RELATED FACTORS WERE: A FALSE AIRSPEED INDICATION, THE PILOT'S LACK OF FAMILIARITY WITH THE AIRCRAFT, HIS IMPROPER USE OF CARBURETOR HEAT, HIS DIVERTED ATTENTION, AND THE FENCE.

File No 1551 8/05/89 PARKE	R DAM, CA	A/C Reg. No. No.	5070Н	Time (Lcl) - 1555 PDT				
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)		Crew Pass	Fatal 0 0	Injur Serious 0 0	ries Minor 0 0	None 1 3	
Aircraft Information Make/Model - CESSNA 182 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2600 No. of Seats - 4							- YES/YES - YES	
Environment/Operations Information Weather Data Wx Briefing - FSS Method - ACFT RADIO Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 230/007 KTS Visibility - 40.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart EL MONTE, Destination	cure Point CA		Airport I	Proximity PORT		30	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 34 Biennial Flight F Current Months Since Aircraft Type	Medical (Review - YES Total - 22 Make - C-182R Insti	Certificat Fligh 1 - 26 /Model- 10 rument-	e - VALID t Time (Ho 7 9 5	MEDICAL-WA Durs) Last 24 Last 30 Last 90	AIVERS/LIM Hrs - 2 Days- 20 Days- 50	IT	
Instrument Rating(s) - NONE								
AFTER ARRIVING OVER LAKE HAVASU, THE PLT NOTES DECIDED TO FLY ALONG THE LAKE FOR SOME SIGHT— DESTINATION & HE ELECTED TO LAND. THE PLT SAIS NORMAL POSITION. JUST AFTER TOUCHDOWN, HE NOTE LANDING & PROCEEDED WITH A GO-AROUND. AT THAT PLT SAID THAT AT THE RATE THE ACFT WAS CLIMBING TERRAIN. DURING THE TURN, THE LEFT WING HIT THE	EEEING. HE SPOTTED HE ENTERED THE P CED A "RAIN EROSI POINT, HE SAW A I NG IT WOULD NOT CI	A SMALL AIRSTRIP VATTERN FOR THE SOUT ON DEPRESSION" ACRO ARGE ROCK HILL AT T EAR THE HILL & HE B	WHICH WAS I'H BOUND R' OSS THE DII I'HE DEPART'	CLOSER TO UNWAY & TO RT AIRSTR] URE END OF	HIS ULTIME DUCHED DOWN P. HE ABOF THE RUNWE	ATE I IN A RTED THE AY. THE		

File No. - 1551 8/05/89 PARKER DAM, CA A/C Reg. No. N5070H Time (Lcl) - 1555 PDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ABORTED

Finding(s)

- 1. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION ROUGH/UNEVEN
- 2. GO-AROUND DELAYED PILOT IN COMMAND
- 3. TERRAIN CONDITION RISING
- 4. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 5. CLEARANCE NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S DELAY IN MAKING A GO-AROUND, AND HIS FAILURE TO MAINTAIN CLEARANCE FROM THE TERRAIN DURING THE ABORTED LANDING. THE RUNWAY/TERRAIN CONDITION WAS A RELATED FACTOR.

File No 1555 9/01/89 COOL,	CA A/C	Reg. No. N97628	Tir	me (Lcl) - 1	L038 PDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING			Fatal 0 0	Injurie Serious 0 0	es Minor 0 0	None 1 0
Aircraft Information Make/Model - STINSON 108 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2365 No. of Seats - 4	Eng Make/Model - F Number Engines -	RANKLIN 6A4-165	Sta	nstalled/Act all Warning	System -	NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 360/010 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poin AUBURN,CA Destination GEORGETOWN,CA ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE - NONE - FORCED LANDING	Airport P: OFF AIRI Airport Da AUBURN Runway I Runway I Runway I Runway I	roximity PORT/STRIP ata Ident - N Lth/Wid - N Surface - N Status - N	I/A I/A I/A I/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE						0
	EVENTFUL, BUT DURING THE L EFT, EXITED THE ROADWAY, A PISTON WAS DESTROYED. THE	ANDING ROLL-OUT, THE ND WENT THRU A BARBE PISTON WAS NOT IDEN	LEFT WHEEI D WIRE FENC TIFIED AS E	L PANT STRUC CE AND ONTO BEING THE CO	K A A DIRT	

File No. - 1555 9/01/89 COOL, CA A/C Reg. No. N97628 Time (Lcl) - 1038 PDT ______

Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF

Phase of Operation CLIMB - TO CRUISE

Finding(s)

1. MAINTENANCE, OVERHAUL, MAJOR - IMPROPER - OTHER MAINTENANCE PSNL

2. ENGINE ASSEMBLY, PISTON - FAILURE, TOTAL

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 - SIGN

4. OBJECT - FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE #2 PISTON. FAILURE OF THE MECHANIC TO PROPERLY OVERHAUL THE ENGINE WAS A RELATED FACTOR.

File No 1583 9/11/89 TORF	ANCE, CA A/C Reg. No.	. N95554 Time (Lcl) - 1314 PDT
Accident occurred buring -manbing	IR TAXI Aircraft Damag SUBSTANTIAL Fire NONE	ge Injuries Fatal Serious Minor None Crew 0 0 0 1 Pass 0 0 0 0
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Eng Make/Model - LYCOMING	0-235-N2C ELT Installed/Activated - YES/YE
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 130/008 KTS Visibility - 6.0 SM Lowest Sky/Clouds - 2000 FT SCA Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC Destination LOCAL ATC/Airspace TTERED Type of Flight Plan - NONE	Airport Proximity ON AIRPORT Airport Data TORRANCE MUNI Runway Ident - 11L Runway Lth/Wid - 5000/ 150 Runway Surface - ASPHALT Runway Status - DRY
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT Instrument Rating(s) - NONE	Biennial Flight Review	al Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Flight Time (Hours) tal - 35
Narrative ILLE PRACTICING TOUCH-&-GO LANDINGS, THE 35 RECTIONAL CONTROL AS THE ACFT VEERED TOWAR OUND TRACK OF THE ACFT, IT WOULD "TUMBLE." SED OVER.	D THE EDGE OF THE RWY. THE STUDENT	STATED HE FEARED THAT BY CORRECTING THE

File No. - 1583 9/11/89 TORRANCE, CA A/C Reg. No. N95554 Time (Lcl) - 1314 PDT LOSS OF CONTROL - ON GROUND Occurrence #1 Phase of Operation LANDING - ROLL Finding(s) 1. DÎRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 2. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND 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 - BERM Occurrence #3 NOSE OVER 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 DIRECTIONAL CONTROL DURING LANDING ROLL-OUT, WHICH RESULTED A GROUND SWERVE. THE
PILOT'S RELATIVELY LOW LEVEL OF FLYING EXPERIENCE AND THE BERM BESIDE THE RUNWAY WERE RELATED FACTORS.

----Probable Cause----

File No 1460 9/16/89 LA G	RANGE,CA A/C F	eg. No. N1232J	Time (I	ccl) - 1440 PDT
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		t Damage YED Crew Pass	Fatal Seri 1 1	Injuries .ous Minor None 0 0 0 0 0 0
Aircraft Information Make/Model - ROCKWELL 112B Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2800 No. of Seats - 4		COMING 0-360 CIP-FUEL INJECTED 200 HP	ELT Instal Stall V	led/Activated - YES/NO Warning System - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - PARTIAL, LMTD BY FCSTI Basic Weather - IMC Wind Dir/Speed- 135/015 KTS Visibility500 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - OBSCURED Obstructions to Vision- BLOWING SPRAM Precipitation - RAIN Condition of Light - DAYLIGHT	Itinerary Last Departure Point S LAKE TAHOE, CA Destination BURBANK CA		Airport Proxim OFF AIRPORT/ Airport Data	nity STRIP
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 44 Biennial Flight Review Current - NO Months Since - 27 Aircraft Type - 112B	Medical Certificat Fligh Total - 27 Make/Model- 14 Instrument-	e - VALID MEDIC t Time (Hours) 7 La 5 La 3 La	CAL-WAIVERS/LIMIT LST 24 Hrs - 3 LST 30 Days- 3 LST 90 Days- 24
Narrative BEFORE DEPG ON THE ACDNT FLT, THE PLT OBTAINE ALSO, HE WAS WARNED OF THUNDERSTORM ACTIVITY AFTER TAKEOFF, HE ACTIVATED THE FLT PLAN, THE ACFT WAS OBSERVED FLYING AT LOW ALTITUDE. AS LOW CLOUD LAYER. SHORTLY THEREAFTER, IT WAS O MOMENTS LATER, THE ACFT CRASHED IN A LAKE. AN HIGH VELOCITY. NO PREIMPACT PART FAILURE/MALE ABOUT 3 HRS OF INSTRUMENT FLT TIME. WITNESSES ABOUT A 500 FT OBSCURATION WITH 1/2 MI VISIBLE	THROUGHOUT ALL OF CALIFORNI IN THERE WAS NO FURTHER COMM THE ACFT APCHD A SIGN, IT W BESERVED BY ANOTHER WITNESS I EXAM OF THE WRECKAGE REVEA UNCTION OF THE ACFT WAS FOU RPRTD THUNDERSTORMS & LIGH	A. HE FILED A VFR F. UNICATION WITH THE AS OBSERVED TO ENTE. IN A DIVE AS IT DES LED THE ACFT HAD IM ND. THE NON-INSTRUM TNING IN THE AREA; ROM 135 DEG AT 15 G	LT PLAN & TOOK ACFT. ABOUT 1 H R A CLIMB & DIS CENDED BELOW TH PACTED THE WATE ENT RATED PILOT THEY ESTIMATED USTING 20 KTS.	OFF. SHORTLY IR LATER, THE PAPPEAR IN A IE CLOUDS. IR WITH VERY IN HAD ONLY

File No. - 1460 9/16/89 LA GRANGE, CA A/C Reg. No. N1232J Time (Lcl) - 1440 PDT

IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE

Finding(s)

- 1. FLIGHT INTO KNOWN ADVERSE WEATHER INITIATED PILOT IN COMMAND
- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION HIGH WIND
- 4. WEATHER CONDITION RAIN
- 5. WEATHER CONDITION OBSCURATION
- 6. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 7. VFR FLIGHT INTO IMC CONTINUED PILOT IN COMMAND

Occurrence #2 LOSS OF CONTROL - IN FLIGHT

Phase of Operation CRUISE

Finding(s)

- 8. AIRCRAFT CONTROL NOT MAINTAINED PILOT IN COMMAND
- 9. SPATIAL DISORIENTATION PILOT IN COMMAND
- LACK OF TOTAL INSTRUMENT TIME PILOT IN COMMAND

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED

Finding(s)

11. TERRAIN CONDITION - WATER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: CONTINUED VFR FLIGHT INTO INSTRUMENT METEORLOGICAL CONDITIONS (IMC) BY THE PILOT, WHICH RESULTED IN SPATIAL DISORIENTATION AND LOSS OF AIRCRAFT CONTROL. RELATED FACTORS WERE: FLIGHT INTO KNOWN ADVERSE WEATHER BY THE PILOT, THE ADVERSE WEATHER CONDITIONS, AND THE PILOT'S LACK OF INSTRUMENT FLIGHT CAPABILITIES.

File No 1554 9/20/89 ZENI	A,CA	A/C Reg. No.		Time (Lo	1) - 1730 PDT	
Basic Information Type Operating Certificate-ON-DEMAND A Name of Carrier -COMSTOCK AI Type of Operation -NON SCHED, December 11 CFR 135 Accident Occurred During -LANDING	IR TAXI R SERVICES OMESTIC,PASSENGER	Aircraft Damage SUBSTANTIAL Fire	e Crew	Fatal Seric 0 0 0 0	njuries us Minor 0 0	None 1 2
Aircraft Information Make/Model - CESSNA 182 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2950 No. of Seats - 4						- YES/NO - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 270/008 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary G Last Departu SACRAMENTO Destination SAME AS ACC	re Point ,CA C/INC nt Plan - VFR	A:	irport Proximi ON AIRPORT irport Data	ty	50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND Instrument Rating(s) - AIRPLANE	Age - 41 Biennial Flight Re Current - Months Since - Aircraft Type -	- YES Tot - 4 Mak - C-210 Ins	Certificate - Flight 5	Las Las OO Las		
THE VFR FLIGHT, CONDUCTED UNDER 14 CFR 135, V PILOT EXECUTED TWO GO-AROUNDS, BECAUSE HE HAI THIRD APPROACH, BUT THE AIRPLANE'S AIRSPEED V RUNWAY, THE PILOT INTENTIONALLY GROUND LOOPEI COLLIDE WITH A FENCE. A POST-ACDNT EXAM DISC:	D NOT SLOWED THE AIR WAS TOO HIGH. REALIZ D THE AIRPLANE. THIS	PLANE SUFFICIENT ING THAT HE WAS CAUSED IT TO EX	TLY. HE STATED GOING TO OVERS XIT THE RIGHT S	THAT HE LANDE SHOOT THE END SIDE OF THE RU	D ON THE OF THE NWAY AND	

File No. - 1554 9/20/89 ZENIA,CA A/C Reg. No. N8579M Time (Lcl) - 1730 PDT

Occurrence #1 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL

Finding(s)

- 1. FLIGHT CONTROL, FLAP ATTACHMENT SEIZED
- 2. LOWERING OF FLAPS NOT POSSIBLE -
- 3. LOWERING OF FLAPS NOT IDENTIFIED PILOT IN COMMAND
- 4. AIRSPEED EXCESSIVE PILOT IN COMMAND
- 5. GROUND LOOP/SWERVE INTENTIONAL PILOT IN COMMAND
- 6. OBJECT FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO REALIZE THAT THE FLAPS DID NOT EXTEND, WHICH RESULTED IN EXCESSIVE AIRSPEED. THE SEIZED FLAP ACTUATOR WAS A RELATED FACTOR.

-Basic Information							
Type Operating Certificate-NONE (G Type of Operation -GLIDER Flight Conducted Under -14 CFR Accident Occurred During -APPROAC	H	Aircraft Damage SUBSTANTIAL Fire NONE		Fatal 0 0	Injuri Serious 0 0	les Minor 0 0	None 1 0
-Aircraft Information Make/Model - PIPER PA-25-235 Landing Gear - TAILWHEEL-ALL FIXE Max Gross Wt - 2900 No. of Seats - 1	Eng Make/ D Number En Engine Ty Rated Pow	Model - LYCOMING O- gines - 1 pe - RECIPROCAT: er - 235 HP	-540 ING-CARBURET	ELT II Sta	nstalled/Ac all Warning	ctivated - g System -	- UNK/NI - YES
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 180/006 KTS Visibility - 30.0 SM Lowest Sky/Clouds - 6000 FT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary EFING Last Depar SAME AS Destination LOCAL ATC/Airspace SCATTERED Type of Fl Type of Cl Type Apch/		C PATTERN	Airport Da WARNER S Runway I Runway I	PORT/STRIP ata SPRINGS Ident -	3500 ASPHALT	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 31 Biennial Flight : Current Months Since Aircraft Type	e - /ECA Inst	Certificate Flight al - 896 e/Model- 3 crument- ci-Eng -	65	ÆDICAL-WAI irs) Last 24 Last 30 Last 90	IVERS/LIMI Hrs - 3 Days- 70 Days- 174	
Instrument Rating(s) - NONE -Narrative PLT ESTIMATED THE ACFT HAD ABOUT 10 DER WAS RELEASED, HE RETURNED TO THE R PLT TRIED TO GLIDE THE ACFT TO THE R SON WAS FOUND FOR THE LOSS OF POWER.	ARPT FOR A LANDING. WH	EN HE WAS ON FINAL	APCH TO LAN	D, THE ENG	G LOST POWE	ER.	

File No 14	68 9/26/89 	WARNER SPRINGS,CA	A/C Reg. No. N4450Y	Time (Lcl) - 1425 PDT
	LOSS OF ENGINE PAPPROACH - VFR E	POWER PATTERN - FINAL APPROACH		-
Finding(s) 1. REASON FOR OCCU	RRENCE UNDETERMINE	D		
Occurrence #2 Phase of Operation	FORCED LANDING APPROACH			
Occurrence #3 Phase of Operation	IN FLIGHT COLLIS	SION WITH OBJECT		
Finding(s) 2. OBJECT - TREE(S)			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNKNOWN REASON. THE OBSTRUCTION (TREE) WAS A FACTOR.

----Probable Cause----

File No 1536 10/05/89 PALM	SPRINGS, CA	A/C Reg. N	o. N3063T	I	ime (Lcl) -	- 1714 PDT	
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	AL AVIATION)	Aircraft Dam DESTROYED Fire NONE	age Crew Pass	Fatal 1 3	Injur Serious 0 0	ries Minor 0 0	None 0 0
Aircraft Information Make/Model - PIPER PA-28RT-201T Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2900 No. of Seats - 4	Eng Make/ Number En Engine Ty Rated Pow	Model - CONTINE gines - 1 pe - RECIP-F er - 200	NTAL TSIO-360-F UEL INJECTED	F8 ELT S	Installed/Æ tall Warnir	activated ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC	Itinerary Last Depar CALIPATR Destination	ture Point IA,CA n ACC/INC		Airport ON AIR Airport PALM S Runway Runway Runway	Proximity PORT	- 12 - 8500/ :	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND	Age - 61 Biennial Flight : Current Months Since Aircraft Typ	Medi Review - YES - 1 I e - PA-28RT	cal Certificate Flight Total - 166 Make/Model- 877 Instrument- Multi-Eng - UNK	e - VALID Time (H 55 71 71	MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotorcr	IVERS/LIM Hrs - 5 Days- 51 Days- 16 aft - UNI	IT 4 K/NR
Instrument Rating(s) - AIRPLANE							
THE PIPER PA-28 PLT ENTERED LEFT TRAFFIC TO I LONG, BUT IT HAD A 1200' DISPLACED THRESHOLD. LAND ON THE SAME RWY. THE TWR CTLR ADZD THE PA-28 WAS ABEAM THE APCH END OF THE RWY ON A ENTERED AN "IMMEDIATE STEEP BANK AND DESCENDI 200' AGL, THEN IT BEGAN OSCILLATING EXCESSIVE BALANCE COMPUTATION SHOWED THE PA-28 WAS ABT BEHIND THE AFT LIMIT.	AND ON RWY 12 IN NAT ABT THE SAME PA-28 PLT OF THE CLOSE DOWNWIND AS ING TURN." RPRTD.	TIME, A BOEING OTHER TRAFFIC & FLT 192 LANDED LY, THE PA-28 WA PREIMPACT MECHA	727 (ALASKA FI CAUTIONED HIM . THE PA-28 PI AS MANEUVERED C ANICAL PROBLEM	T 192) W. ABT WAKE T WAS CL. ONTO FINA WAS EVID	AS ON AN AP TURBULENCE RD TO LAND L APCH ABT ENT. A WEI	CH TO THE HE 100' TO GHT	

File No 15	36 10/05/89	PALM SPRINGS,CA	A/C Reg. No. N3063T	Time (Lcl) - 1714 PDT
Occurrence #1 Phase of Operation		E ENCOUNTERED ATTERN - FINAL APPROACH		
	CTIVES - NOT FOLLO	LOT IN COMMAND WED - PILOT IN COMMAND EEDED - PILOT IN COMMAND		
Occurrence #2 Phase of Operation		- IN FLIGHT ATTERN - FINAL APPROACH		
Occurrence #3 Phase of Operation		ION WITH TERRAIN/WATER ROLLED		

----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 FAILURE TO FOLLOW WAKE TURBULENCE AVOIDANCE PROCEDURES,
WHICH RESULTED IN A VORTEX TURBULENCE ENCOUNTER. A FACTOR RELATED TO THE ACCIDENT WAS: THE PILOT'S FAILURE TO ASSURE
THE AIRCRAFT WAS LOADED WITHIN ITS WEIGHT AND BALANCE LIMITATIONS.

	/ALLEY,CA A/C	Reg. No. N85837	Т	'ime (Lcl) -	1100 PDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircr SUBS' Fire NONE		Fatal 0 0	Injur: Serious 0 0	ies Minor 0 0	None 1 1
Aircraft Information Make/Model - AERONCA 11AC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1250 No. of Seats - 2	Eng Make/Model - (Number Engines -	RECIPROCATING-CARBUR	S	Installed/Adtall Warning	ctivated o	- NO -N/ - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed - 225/002 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point GRASS VALLEY, CA Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plantype of Clearance Type Apch/Lndg	n - NONE - NONE	ON AIR Airport LIMBER Runway Runway Runway	Data LOST RANCH	GRASS/TU	
	Age - 62 Biennial Flight Review Current - YES Months Since - 3 Aircraft Type - 11AC	Medical Certifica Flig Total - 1 Make/Model- 1 Instrument- U Multi-Eng - U	ht Time (H 47 7 NK/NR	ours) Last 24 Last 30 Last 90	Hrs - UNI Days- UNI Days- 17	K/NR K/NR
Instrument Rating(s) - NONE						

File No. - 1466 10/05/89 PENN VALLEY, CA A/C Reg. No. N85837 Time (Lcl) - 1100 PDT

Occurrence #1 LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

1. DÎRECTIONAL ÇONTROL - NOT MAINTAINED - PILOT IN COMMAND

2. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND

Occurrence #2 MAIN GEAR COLLAPSED

Phase of Operation LANDING

Finding(s)

3. TERRAIN CONDITION - ROUGH/UNEVEN

4. LANDING GEAR, MAIN GEAR - OVERLOAD

----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 ROLL-OUT, WHICH RESULTED IN AN INADVERTENT GROUND SWERVE. UNEVEN TERRAIN BESIDE THE RUNWAY WAS A FACTOR.

File No 1464 11/18/89 HAYWA	RD,CA A/C Reg. No. N4359C	Time (Lcl) - 2056 PST
Type Operation	L AVIATION) Aircraft Damage SUBSTANTIAL Fire Crew NONE Pass Other	Injuries Fatal Serious Minor None 0 0 0 1 0 0 0 1 0 0 0 2 0
Aircraft Information	Eng Make/Model - LYCOMING 0-320-D3G Number Engines - 1 Engine Type - RECIPROCATING-CARBURE Rated Power - 160 HP	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC	Itinerary	Airport Proximity OFF AIRPORT/STRIP Airport Data HAYWARD AIR TERMINAL
	Age - 29 Medical Certificat Biennial Flight Review Fligh Current - UNK/NR Total - 41 Months Since - UNK/NR Make/Model- 39 Aircraft Type - UNK/NR Instrument-	te - VALID MEDICAL-NO WAIVERS/LIMIT nt Time (Hours) 15
Instrument Rating(s) - NONE Narrative THE PLT RPRTD THE ENG LOST POWER AS THE ACFT THE ARPT. HAVING INSUFFICIENT ALT TO GLIDE TO ACFT STRUCK AN AUTOMOBILE & WAS DAMAGED. THER OF THE ACFT REVEALED ONLY A SMALL AMOUNT OF FWERE FOUND.	THE RWY, THE PLT ELECTED TO LAND IN A PARKING WERE 2 OCCUPANTS IN THE VEHICLE; BOTH RECEIV	G LOT. WHILE LANDING, THE /ED MINOR INJURIES. AN EXAM

File No. - 1464 11/18/89 HAYWARD,CA A/C Reg. No. N4359C Time (Lcl) - 2056 PST

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

1. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

2. FLUID, FUEL - EXHAUSTION

3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND

Occurrence #2 FORCED LANDING

Phase of Operation LANDING

Occurrence #3 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING - ROLL

Finding(s)

4. OBJECT - VEHICLE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT OF THE AIRCRAFT BY THE PILOT, WHICH RESULTED IN FUEL EXHAUSTION DUE TO AN INADEQUATE SUPPLY OF FUEL. COLLISION WITH A VEHICLE IN THE EMERGENCY LANDING AREA CONTRIBUTED TO THE DAMAGE AND INJURIES.

File No 1406 8/04/89 BRIGH	ron, co A	/C Reg. No. N820	03G	Time (Lcl)	- 0930 MDT	
Type Operation Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	L AVIATION) Air SUI Fire NOI	craft Damage BSTANTIAL e NE	Fat Crew Pass	Inj al Serious 0 0 0 0	uries Minor 0 0	None 1 0
-Aircraft Information Make/Model - CESSNA 177RG	Eng Make/Model - Number Engines -	- LYCOMING IO-30	60-A1B6	ELT Installed Stall Warn	l/Activated ling System	
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A 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 Position BRIGHTON, CO Destination SAME AS ACC/ING ATC/Airspace Type of Flight Position Type of Clearance Type Apch/Lndg	oint C lan - NONE = NONE - TRAFFIC PA FULL STOP	Airp ON Airp VA Ru Ru Ru Ru ATTERN	ort Proximity AIRPORT ort Data N AIRE nway Ident nway Lth/Wid nway Surface nway Status	- 30 - 3950/ - ASPHALT - DRY	50
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND						IIT
Instrument Rating(s) - AIRPLANE						
Narrative E PLT TOOK OFF ON A FLT FROM HECKENDORF RANGE ACFT & PROCEED ON ANOTHER FLT. BEFORE LANGET. AT TOUCHDOWN, BOTH MAIN GEAR COLLAPSED NOSE GEAR COLLAPSED IN THE DIRT & THE WINGRING HAD FAILED & ALLOWED THE DOWNLOCK TO RESERVED.	DING (AT CO12), HE MOVEL & THE PLANE TRACKED OFF SS & FUSELAGE WERE DAMAGE	O THE GEAR SELECTION THE	CTOR DOWN & N E LEFT. AFTER	OTED A SAFE I LEAVING THE	NDICATOR RWY,	

File No. - 1406 8/04/89 BRIGHTON, CO A/C Reg. No. N8203G Time (Lc1) - 0930 MDT

Occurrence #1 GEAR COLLAPSED

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. LANDING GEAR, GEAR LOCKING MECHANISM - FAILURE, TOTAL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE LANDING GEAR DOWN LOCK, WHICH ALLOWED THE LANDING GEAR TO COLLAPSE DURING THE LANDING.

File No 1574 8/19/89 DOVE	CREEK, CO A/C	Reg. No. N56654	Tin	e (Lcl) -	0845 MDT	
Basic Information Type Operating Certificate-NONE (GENERY Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	AL AVIATION) Aircra SUBST Fire NONE	ft Damage ANTIAL Crew Pass	Fatal 0 0	Injuri Serious 0 1	es Minor 1 2	None 0 0
Aircraft Information Make/Model - PIPER PA-28-235 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3000 No. of Seats - 4	Eng Make/Model - L	YCOMING 0-540-B4B5	ELT In	stalled/Ac	tivated - System -	- YES/NO - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 200/005 KTS Visibility - 50.0 SM Lowest Sky/Clouds - 15000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poin SAME AS ACC/INC Destination ENGLEWOOD.CO	t	Airport Pr OFF AIRP Airport Da	oximity ORT/STRIP ta		50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 72 Biennial Flight Review Current - YES Months Since - 13 Aircraft Type - PA-28	Medical Certificat Fligh Total - 58 Make/Model- UN Instrument- UN Multi-Eng - UN	e - VALID M t Time (Hou 07 K/NR K/NR K/NR	EDICAL-WAI rs) Last 24 Last 30 Last 90 Rotorcra	VERS/LIMI Hrs - 0 Days- 23 Days- 50 ft - UNK	T :/NR
Instrument Rating(s) - NONE						
THE PLT & 3 PSGRS WERE BEGINNING A X-COUNTRY DID NOT INCLUDE A FUEL SUMP DRAIN. HE TAXIED CALM. THE PLT SAID HE STARTED HIS TAKEOFF RUMAKE A CARBURETOR HEAT CHECK. HE SAID THE PLAS THE TERRAIN ROSE, SO HE DECIDED TO LAND IN WING HIT THE GND & THE LANDING GEAR WAS TORN AN INVESTIGATION FAILED TO REVEAL ANY PRE-ACT MI WEST, THE WIND FROM 200 DEG AT 5 KTS.	O ONTO RWY 1, WHICH SLOPED IN 300 FT DOWN THE RUNWAY, I LANE ONLY CLIMBED ABOUT 30 I A FIELD TO AVOID POWER LI OFF. THE DOOR JAMMED, BUT	UPWARD TO THE NORTH. MADE A "RUNNING" MAG FT AGL. HE NOTICED NES IN THE FLT PATH. A PASSERBY HELPED T	HE ESTIMAT NETO CHECK, IT WAS NOT SUBSEQUEN HE OCCUPANT	ED THE WIN BUT HE DI CLIMBING A TLY, THE L S FROM THE	DS WERE D NOT S FAST EFT CABIN.	

File No. - 1574 8/19/89 DOVE CREEK,CO A/C Reg. No. N56654 Time (Lcl) - 0845 MDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 3. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION UPHILL
- 4. CHECKLIST NOT FOLLOWED PILOT IN COMMAND
- 5. ALL AVAILABLE RUNWAY NOT USED PILOT IN COMMAND
- 6. TERRAIN CONDITION RISING
- 7. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 8. PROPER CLIMB RATE NOT POSSIBLE -

----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: HIGH DENSITY ALTITUDE, UPHILL SLOPING RUNWAY, FAILURE OF THE PILOT TO FOLLOW THE CHECKLIST AND USE ALL OF THE AVAILABLE RUNWAY, AND THE RISING TERRAIN AND OBSTRUCTION (POWER LINE) BEYOND THE END OF THE RUNWAY.

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File No. - 1469 8/24/89 ENGLEWOOD, CO
                                                                            A/C Req. No. N6121R Time (Lcl) - 1230 MDT
 ______
----Basic Information----
      Type Operating Certificate-NONE (GENERAL AVIATION)

Aircraft Damage
SUBSTANTIAL

Fatal Serious Minor None
Type of Operation

-INSTRUCTIONAL
Fire
Crew
0 1 1 1 0
Flight Conducted Under -14 CFR 91

NONE
Pass 0 0 0 0
                                                                                                                                                     None
       Accident Occurred During -LANDING
----Aircraft Information----
     Make/Model - CESSNA T210F Eng Make/Model - CONTINENTAL TSIO-520-C ELT Installed/Activated - YES/YES
Landing Gear - TRICYCLE-RETRACTABLE Number Engines - 1 Stall Warning System - YES
Max Gross Wt - 3300 Engine Type - RECIP-FUEL INJECTED
No. of Seats - 4 Rated Power - 285 HP
----Environment/Operations Information----
      Wx Briefing - NO RECORD OF BRIEFING Last Departure Point

Method - N/A
                                                                                                               Airport Proximity
     Weather Data
                                                                                                               ON AIRPORT
       Method - N/A SAME AS ACC/INC
Completeness - N/A Destination
Basic Weather - VMC LOCAL
                                                                                                            Airport Data
       Basic Weather - VMC
                                                                                                                CENTENNIAL
         Wind Dir/Speed- 210/014 KTS
Visibility - 50.0 SM ATC/Airspace
                                                                                                                Runway Ident - 17
        VISIDITILY - 50.0 SM ATC/Airspace Runway Ident - 1/
Runway Lth/Wid - 7000/ 75
Lowest Sky/Clouds - UNK/NR SCATTERED Type of Flight Plan - NONE Runway Surface - ASPHALT
Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY
Obstructions to Vision- NONE Type Apch/Lndg - TRAFFIC PATTERN
Precipitation - NONE
         Condition of Light - DAYLIGHT
----Personnel Information----
       Age - 54

Certificate (s)/Rating(s)

COMMERCIAL,CFI

SE LAND,ME LAND

Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT

Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT

Flight Time (Hours)

Current - YES

Months Since - 1

Aircraft Type - PA-28

Make/Model- UNK/NR

Last 30 Days- UNK/NR

Aircraft Type - PA-28

Multi-Eng - 88

Rotorcraft - UNK/NR
     Pilot-In-Command
            Instrument Rating(s) - AIRPLANE
----Narrative----
THE INSTRUCTOR PILOT (CFI) & DUAL STUDENT WERE PRACTICING SIMULATED INSTRUMENT APCHS. DRG AN APCH, THE LANDING
GEAR FAILED TO EXTEND. THE PILOTS WERE UNABLE TO EXTEND THE GEAR BY USING EITHER THE NORMAL OR EMERGENCY SYSTEMS.
SUBSEQUENTLY, AN APCH WAS MADE TO RWY 17 FOR A WHEELS UP LANDING. TO MINIMIZE THE RISKS OF SPARKS & FIRE, THE CFI
ELECTED TO LAND THE ACFT ON DIRT, SHORT OF THE THRESHOLD, THEN ALLOW THE ACFT TO SKID ONTO THE PAVED RWY. HOWEVER,
HE WAS UNAWARE OF A 6 INCH LIP AT THE RWY THRESHOLD. THE CFI RPRTD THAT DRG THE WHEELS UP LANDING, THE ACFT STRUCK
THE RAISED LIP, WHICH RESULTED IN A HARD IMPACT. THE CFI RECEIVED A COMPRESSION FRACTURE OF HIS BACK. A POST-ACDNT
EXAM OF THE HYDRAULIC POWER UNIT REVEALED A "LEE PLUG" HAD "BLOWN OUT." WITH THE PLUG OUT, NO ENG DRIVEN OR EMERGENCY
PUMP PRESSURE COULD HAVE BEEN APPLIED TO THE GEAR EXTENSION SYSTEM.
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File No. - 1469 8/24/89 ENGLEWOOD, CO A/C Reg. No. N6121R Time (Lcl) - 1230 MDT

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation APPROACH

Finding(s)

1. HYDRAULIC SYSTEM - FAILURE, TOTAL

2. LANDING GEAR, NORMAL RETRACTION/EXTENSION ASSEMBLY - INOPERATIVE

3. LANDING GEAR, EMERGENCY EXTENSION ASSEMBLY - INOPERATIVE

Occurrence #2 GEAR NOT EXTENDED
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

4. GEAR EXTENSION - NOT POSSIBLE -

5. WHEELS UP LANDING

Occurrence #3

ON GROUND COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING

Finding(s)

6. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - RUNWAY

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A FAILURE IN THE HYRDRAULIC POWER UNIT, WHICH PREVENTED OPERATION OF EITHER THE NORMAL OR EMERGENCY GEAR EXTENSION SYSTEMS. THE RAISED RUNWAY LIP CONTRIBUTED TO AIRCRAFT DAMAGE AND PILOT INJURY.

File No 1564 8/27/89 WATKI	NS,CO A/C Reg. No. N2369Q	Time (Lcl) - 1630 MDT
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -AIR SHOW Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraft Damage SUBSTANTIAL Fire Crew NONE Pass	
Aircraft Information Make/Model - WACO UPF7 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 3400 No. of Seats - 2	Eng Make/Model - P&W R-1340 Number Engines - 1 Engine Type - RECIP-FUEL INJECTED	ELT Installed/Activated - NO -N/A Stall Warning System - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 090/010 KTS Visibility - 100.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary	Airport Proximity ON AIRPORT Airport Data FRONT RANGE Runway Ident - 08 Runway Lth/Wid - 8000/ 100 Runway Surface - ASPHALT Runway Status - DRY
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND HELICOPTER	Age - 31 Medical Certifica Biennial Flight Review Flig Current - YES Total - 7 Months Since - 4 Make/Model- 2 Aircraft Type - BH-206B Instrument- Multi-Eng -	te - VALID MEDICAL-NO WAIVERS/LIMIT ht Time (Hours) 650
Instrument Rating(s) - AIRPLANE		
APPLIED DURING LANDING ROLL, THE RIGHT BRAKE AND DEPARTED THE RUNWAY, RESULTING IN A GROUN	PERSON STANDING ON THE LEFT WING. THE PLT SA DPERATED PROPERLY, BUT THE LEFT BRAKE FAILED. D LOOP. THE LEFT WING STRUCK THE GROUND AND R WING, WAS THROWN CLEAR. A POST-ACDNT EXAM	THE PLANE THEN TURNED RIGHT BOTH LEFT WINGS WERE BENT.

File No. - 1564 8/27/89 WATKINS,CO A/C Reg. No. N2369Q Time (Lcl) - 1630 MDT

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

Finding(s)

1. LANDING GEAR,NORMAL BRAKE SYSTEM - FAILURE,TOTAL
2. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
3. GROUND LOOP/SWERVE - UNCONTROLLED - PILOT IN COMMAND

Occurrence #2 DRAGGED WING, ROTOR, POD, OR FLOAT
Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE LEFT BRAKE ASSEMBLY, AND SUBSEQUENT LOSS OF DIRECTIONAL CONTROL BY THE PILOT.

File No 1556 9/02/89 ENGL		Reg. No. N2705K	Time (L	cl) - 1500 MDT	
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION) Aircra		Fatal Seri O O	Injuries ous Minor 0 0 0 0	None 1 1
Aircraft Information Make/Model - CESSNA 180K Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2800 No. of Seats - 4	Eng Make/Model - C Number Engines - Engine Type - R Rated Power -	ONTINENTAL 0-470-U4 1 ECIPROCATING-CARBURE 230 HP	ELT Instal Stall W TOR	led/Activated arning System	- YES/NO - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN	Itinerary G Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace TTERED Type of Flight Plan Type of Clearance Type Apch/Lndq	t	Airport Proxim ON AIRPORT Airport Data	ity	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL, CFI SE LAND, ME LAND, SE SEA Instrument Rating(s) - AIRPLANE	Age - 38 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - C-172	Medical Certificate Flight Total - 296 Make/Model- 55 Instrument- Multi-Eng -	e - VALID MEDIC Time (Hours) 50 La La 60 La	AL-NO WAIVERS/ st 24 Hrs - 2 st 30 Days- 20 st 90 Days- 60	LIMIT
	T TOUCHDOWN, HE FELT A "SHII THE CONTROL YOKE. HE THEN I RIGHT & GROUND LOOPED. THE	LANNED A TOUCH & GO I MMY" FROM THE TAILWHE REAPPLIED THE BACK PE	LANDING ON RWY CEL. HE WAS AB RESSURE & LOST	LE TO STOP DIRECTIONAL	

File No. - 1556 9/02/89 ENGLEWOOD, CO A/C Reg. No. N2705K Time (Lcl) - 1500 MDT

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. GROUND LOOP/SWERVE INADVERTENT 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 MAINTAIN DIRECTIONAL CONTROL, WHICH RESULTED IN A GROUND SWERVE. THE CROSSWIND WAS A RELATED FACTOR.

File No 1500 9/15/89 BUENA	VISTA, CO	A/C Reg. No	. N3458	T.	ime (Lcl) -	- 1830 MDT	
-Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION)	Aircraft Dama SUBSTANTIAL Fire NONE	Crew Pass	0 1	Inju Serious 1 0	Minor	None 0 0
Aircraft Information Make/Model - BLANIK L-13 Landing Gear - UNK/NR Max Gross Wt - 1102 No. of Seats - 2	Eng Make/Mo Number Engi Engine Type Rated Power	del - N/A nes - N/A - UNK/NR		ELT :	Installed/ <i>I</i> call Warnir		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 300/004 KTS Visibility - 30.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Destination LOCAL ATC/Airspace Type of Flig Type of Clea	C/INC ht Plan - NONE		Runway Runway	PORT -	- 9000/ - ASPHALT	50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND,SE SEA,ME SEA HELICOPTER ,GLIDER	Age - 44 Biennial Flight Re Current Months Since Aircraft Type	Medic view - YES T - 4 M - C-182 I	al Certificat Fligh otal - 24 ake/Model- 10 nstrument- ulti-Eng -	e - VALID t Time (Ho 42 165 47	MEDICAL-NO Durs) Last 24 Last 30 Last 90 Rotorci	WAIVERS/ Hrs - 1 Days- 9 Days- 30 Aft -	LIMIT
Instrument Rating(s) - AIRPLANENarrative E PLT WAS GIVING A PASSENGER A GLIDER RIDE. ND THAT WAS FROM 300 DEG AT 4 KTS. A WITNES LEASED THE GLIDER AT ABOUT 300 FT AGL. THE E GLIDER PITCHED DOWN & CRASHED AFTER COMPL E GLIDER WAS IN AN EXTREME NOSE DOWN ATTITU	S RPRTD THE INITIAL PLT THEN BEGAN A LE ETING ABOUT 300 DEG	CLIMB AFTER T VEL LEFT TURN	AKEOFF SEEMED WITH INCREASI	NORMAL UI	NTIL THE PI SUBSEQUENTI	T Y,	

File No. - 1500 9/15/89 BUENA VISTA,CO A/C Reg. No. N3458 Time (Lcl) - 1830 MDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Phase of Operation MANEUVERING

Finding(s)

1. GLIDER TOW RELEASE - PREMATURE - PILOT IN COMMAND

2. MANEUVER - INITIATED - PILOT IN COMMAND

3. AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND

4. STALL - INADVERTENT - PILOT IN COMMAND

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

Finding(s)

5. TERRAIN CONDITION - ROUGH/UNEVEN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A PREMATURE RELEASE OF THE GLIDER TOW LINE BY THE GLIDER PILOT AND HIS FAILURE TO MAINTAIN SUFFICIENT AIRSPEED, WHILE MANEUVERING BACK TOWARD THE RUNWAY, WHICH RESULTED IN AN INADVERTENT STALL.

File No 1584 7/24/89 STONI	NGTON, CT	A/C Reg. No	. N29216	Т	ime (Lcl) -	2236 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		Aircraft Dama DESTROYED Fire NONE	nge Crew Pass	Fatal 0 0	Injur Serious 1 0	ies Minor 0 0	None 0 1
Aircraft Information Make/Model - PIPER PA-28-161 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 310 No. of Seats - 4		odel - LYCOMING nes - 1 - RECIPROG	G 0-320-D3G CATING-CARBURE	ELT S TOR	Installed/A tall Warnin	ctivated - g System -	- YES/NO - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - PARTIAL, LMTD BY FCSTF Basic Weather - UNK/NR Wind Dir/Speed- CALM Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- GROUND FOG Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departu WESTERLY,F Destination HARTFORD,C	re Point I		Airport OFF AI Airport WESTER Runway Runway Runway	Proximity RPORT/STRIP	25 4000/ 1 ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 25 Biennial Flight Re Current Months Since Aircraft Type	Medic view - UNK/NR T - UNK/NR M - UNK/NR I	cal Certificate Flight Cotal - 90 Take/Model- UNI Tastrument- UNI Tulti-Eng -	e - VALID t Time (H K/NR K/NR 0	MEDICAL-NO ours) Last 24 Last 30 Last 90 Rotorcr	WAIVERS/I Hrs - UNE Days- UNE Days- UNE aft -	LIMIT K/NR K/NR K/NR 0
Instrument Rating(s) - NONE							
BEFORE TAKEOFF, THE PLT OBTAINED WX INFO. NO RPRTD AS CLEAR. THE PLT SAID HE WAS INFORMED NOT HAVE INTERFERED WITH HIS FLT TO HARTFORD. CONCLUDED THAT THERE WAS JUST GROUND FOG." A WHEN HE SUDDENLY REALIZED THE DENSITY OF THE SAID HE THEN EXPERIENCED VERTIGO (SPATIAL DISTORS OF TREES & CRASHED IN THE PAWCATUCK RIVE THEY RCVD HELP.	ON UNICOM FREQ THAT AFTER PREFLIGHTING LSO, THE PLT STATED FOG WAS THICKER THA ORIENTATION) & LOST	THERE WAS ONI THE ACFT, HE THAT AFTER TA N RPRTD OR ANT CONTROL OF TE	Y GROUND FOG "OBSERVED THE KEOFF, THE ACE CICIPATED. (THE E ACFT. SUBSE	IN RHODE STARS DI FT HAD CL E ARPT EL QUENTLY,	ISLAND, WHI RECTLY OVER IMBED TO 20 EV WAS 81 F THE ACFT HI	CH SHOULD HEAD AND O FT MSL T.) HE T THE	

File No. - 1584 7/24/89 STONINGTON, CT A/C Reg. No. N29216 Time (Lcl) - 2236 EDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. LIGHT CONDITION - DARK NIGHT 2. WEATHER CONDITION - FOG 3. VFR FLIGHT INTO IMC - INADVERTENT - 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 LACK OF TOTAL INSTRUMENT TIME - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation TAKEOFF Finding(s) 7. OBJECT - TREE(S) Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 8. TERRAIN CONDITION - WATER ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADVERTENT FLIGHT INTO INSTRUMENT METEOROLOGICAL CONDITIONS (IMC) AND HIS LOSS OF AIRCRAFT

CONTROL DUE TO SPATIAL DISORIENTATION. FACTORS RELATED TO THE ACCIDENT WERE: THE ENVIRONMENTAL CONDITIONS (DARK NIGHT & FOG) AND THE PILOT'S LACK OF INSTRUMENT EXPERIENCE.

File No 1588 8/01/89 DAM	BURY, CT	A/C Reg. No. N8909N) - 0901 EDT	0901 EDT		
Basic Information Type Operating Certificate-NONE (GENI Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	CRAL AVIATION)	Aircraft Damag SUBSTANTIAL Fire NONE	e Fa Crew Pass	Injustal Serious 0 0 0 0	juries s Minor 0 0			
Aircraft Information Make/Model - PIPER PA-32-300 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3400 No. of Seats - 6	Eng Make/I Number Eng Engine Ty Rated Powe			ELT Installed				
Environment/Operations Information Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 070/010 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 10000 FT SC Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart BRIDGEPO Destination SAME AS A	ture Point RT,CT 1 ACC/INC	Air Air E	port Proximity N AIRPORT port Data ANBURY unway Ident unway Lth/Wid unway Surface unway Status		150		
Personnel Information	Age - 41 Biennial Flight I Current Months Since Aircraft Type	Medica Review - YES To - 1 Mal - PA-32 In:	l Certificate - Flight Ti tal - 549 ke/Model- 6 strument- 140	VALID MEDICAL- me (Hours) Last Last Last	-NO WAIVERS/ 24 Hrs - 1 30 Days- 6 90 Days- 6	LIMIT		
Instrument Rating(s) - NONE								
E PILOT WAS CLEARED FOR A TOUCH-&-GO LAND E PILOT SAID A GO-AROUND SEEMED ILL ADVIS								

File No. - 1588 8/01/89 DANBURY,CT A/C Reg. No. N8909N Time (Lcl) - 0901 EDT

Occurrence #1 OVERRUN

Phase of Operation LANDING - ROLL

Finding(s)

1. AIRSPEED - EXCESSIVE - PILOT IN COMMAND

2. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND

3. GO-AROUND - NOT PERFORMED - PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING - ROLL

Finding(s)

4. OBJECT - FENCE

5. GROUND LOOP/SWERVE - INTENTIONAL - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S MISJUDGEMENT OF (EXCESSIVE) AIRSPEED, HIS FAILURE TO ATTAIN THE PROPER TOUCHDOWN POINT, AND FAILURE TO MAKE
A GO-AROUND, WHILE THERE WAS SUFFICIENT RUNWAY REMAINING. THE FENCE WAS A RELATED FACTOR.

File No 1597 8/05/89 GRIS	WOLD,CT A/C Reg. No. N7580	QB Time (Lcl) - 1045 EDT
-Basic Information Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION) Aircraft Damage SUBSTANTIAL Fire NONE	Injuries Fatal Serious Minor None Crew 0 0 0 1 Pass 0 0 0 0
-Aircraft Information Make/Model - CESSNA R172K Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2558 No. of Seats - 4	Eng Make/Model - CONTINENTAL IO- Number Engines - 1 Engine Type - RECIP-FUEL INJE Rated Power - 195 HP	-360-K8 ELT Installed/Activated - YES/N Stall Warning System - YES ECTED
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point HARTFORD, CT Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan - NONE RCAST Type of Clearance - NONE Type Apch/Lndg - GO AROUND	Airport Proximity ON AIRPORT Airport Data LAKESIDE Runway Ident - 29 Runway Lth/Wid - 2640/ 50 Runway Surface - ASPHALT Runway Status - DRY
	Age - 52 Medical Cert Biennial Flight Review Current - YES Total Months Since - 11 Make/Mod Aircraft Type - R172K Instrume	tificate - VALID MEDICAL-WAIVERS/LIMIT Flight Time (Hours) - 520
Instrument Rating(s) - AIRPLANENarrative MAL, BUT TOUCHDOWN WAS HARD. POWER WAS ADD PILOT STATED THE AIRCRAFT WAS STILL IN GO THED HARD, THE PROPELLER CAUGHT IN SOME DE	DED FOR A GO-AROUND, BUT THE AIRCRAFT VER ROUND EFFECT, SO HE DECREASED THE FLAPS T	ERED LEFT OFF OF THE RUNWAY.

File No. - 1597 8/05/89 GRISWOLD, CT A/C Req. No. N758QB Time (Lcl) - 1045 EDT

Occurrence #1

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. FLARE - IMPROPER - PILOT IN COMMAND

2. ABORTED LANDING - INITIATED - PILOT IN COMMAND

Occurrence #2 LOSS OF CONTROL - IN FLIGHT

Phase of Operation LANDING - ABORTED

Finding(s)

3. AIRSPEED - INADEQUATE - PILOT IN COMMAND

4. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING - ABORTED

Occurrence #4 NOSE OVER Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLARE BY THE PILOT, AND HIS FAILURE TO ATTAIN ADEQUATED AIRSPEED FOR AN ABORTED LANDING (GO-AROUND), WHICH RESULTED IN A LOSS OF AIRCRAFT CONTROL.

File No 1487 8/25/89 SELBY	VILLE,DE A/C Re	eg. No. N67803	Time (Lcl) - 1125 EDT			
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -BANNER TOW Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraft SUBSTAN Fire NONE		Fatal Se. 0 0	Injuries rious Minor 0 0 0 0	None 1 0	
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2						
Environment/Operations Information Weather Data	Itinerary Last Departure Point SELBYVILLE, DE Destination LOCAL ATC/Airspace TERED Type of Flight Plan	- NONE	Airport Prox OFF AIRPOR' Airport Data WARRINGTON	imity T/STRIP		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 21 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - C-150	Medical Certificate Flight Total - 520 Make/Model- 450 Instrument-	e - VALID MED: Time (Hours)	ICAL-NO WAIVERS) Last 24 Hrs - 1 Last 30 Days- 7 Last 90 Days- 2	/LIMIT 5 00	
Instrument Rating(s) - AIRPLANE						
Narrative HE ACFT HAD JUST CLIMBED OUT AFTER A BANNER HE ENG TEMPORARILY SMOOTHED OUT. ABOUT 2 MIN NG BEGAN A SEVERE VIBRATION, BACKFIRED, & QU N A SOYBEAN FIELD. AN ENG TEARDOWN REVEALED AS IN POOR CONDITION. ALSO, THERE WAS EVIDEN	UTES LATER, THE ENG RAN ROUG IT RUNNING. SUBSEQUENTLY, TH THE #4 EXHAUST LOBE OF THE C	H AGAIN & THE PLT I E ACFT NOSED OVER I AMSHAFT WAS WORN &	RELEASED THE I DRG AN EMERGEI THAT THE \$4 I	BANNER. THE NCY LANDING EXHAUST TAPPET	·	

File No. - 1487 8/25/89 SELBYVILLE, DE

A/C Req. No. N67803

Time (Lcl) - 1125 EDT

Occurrence #1

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

Phase of Operation CLIMB - TO CRUISE

Finding(s)

1. ENGINE ASSEMBLY, ROCKER ARM/TAPPET - WORN

2. ENGINE ASSEMBLY, CAMSHAFT - WORN

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 NOSE OVER
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

3. TERRAIN CONDITION - CROP

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: EXCESSIVE WEAR OF THE NUMBER FOUR EXHAUST LOBE ON THE CAMSHAFT AND POOR CONDITION (WEAR) OF THE NUMBER FOUR EXHAUST TAPPET. THE SOYBEAN CROP IN THE EMERGENCY LANDING AREA WAS CONSIDERED TO BE A FACTOR.

	AR,FL A/C Re	g. No. N732AG	Ti	me (Lcl) -	2039 EDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING			Fatal 0 0	Injur: Serious 0 0	ies Minor 1 2	None 0 0
Aircraft Information Make/Model - CESSNA 210L Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3400 No. of Seats - 6	Eng Make/Model - CON Number Engines - 1 Engine Type - REC Rated Power -			nstalled/Adalla warning		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 130/009 KTS Visibility - 12.0 SM Lowest Sky/Clouds - 3000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	Itinerary Last Departure Point WEST JEFFERSON, NC Destination SAME AS ACC/INC ATC/Airspace TERED Type of Flight Plan - Type of Clearance - Type Apch/Lndg -		Airport D Runway Runway Runway Runway	PORT/STRIP Pata Ident - Ith/Wid - Surface - Status -	NT / 7A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND Instrument Rating(s) - AIRPLANE		Medical Certificat Fligh Total - 13 Make/Model- 35 Instrument- Multi-Eng -	e - VALID t Time (Ho 304 50 198 184	MEDICAL-NO ours) Last 24 Last 30 Last 90	•	
Narrative RG ARRIVAL AT THE DESTN, THE ENG LOST POWER LME, THE FUEL QUANTITY INDCR SHOWED THE RGT HE PLT RPRTD THE ACFT WAS TOPPED OFF WITH 77 HE TANKS WERE FULL. FUEL CONSUMPTION CALCULA LVE BEEN USED DRG THE APRX 5 HRS OF FLT. TOT	TANK WAS 1/4 FULL. SUBSEQUEN .1 GAL (462.6 LBS) OF FUEL B TIONS FOR A WORSE CASE SCENA	TLY, THE ACFT NOSE FFORE THE FLT, BUT RIO SHOWED THAT AB	D OVER DRG HE DID NO OUT 473 LB	A FORCED I	LNDG. VERIFY	

File No. - 1436 6/15/89 MIRAMAR, FL A/C Reg. No. N732AG Time (Lcl) - 2039 EDT

LOSS OF ENGINE POWER (TOTAL) - NON-MECHANICAL

Phase of Operation APPROACH

Finding(s)

1. PLANNING-DECISION - INADEQUATE - PILOT IN COMMAND

2. ENGINE INSTRUMENTS, FUEL QUANTITY GAGE - FALSE INDICATION

3. FLUID, FUEL - EXHAUSTION

FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY

NOSE OVER Occurrence #3 Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PLANNING/DECISION BY THE PILOT, WHICH RESULTED IN LOSS OF ENGINE POWER DUE TO FUEL EXHAUSTION. A CONTRIBUTING FACTOR WAS THE FAULTY READING FROM THE FUEL QUANTITY INDICATOR.

File No 1417 8/02/89 SARAS	OTA, FL A/	C Reg. No. N245	86	Time (Lcl) -	- 1350 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION) Airc DES Fire ON	raft Damage TROYED GROUND	Fatal Crew 1 Pass 1	Injur Serious 0 0	ries Minor 0	None 0 0
Aircraft Information Make/Model - BEECH A24R Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2750 No. of Seats - 4	Eng Make/Model - Number Engines - Engine Type - Rated Power -	LYCOMING IO-36 1 RECIP-FUEL INJ 200 HP	0-A1B ELT ECTED	Installed/A Stall Warnin	Activated - ng System -	- YES/NO - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 280/010 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 2000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Po SAME AS ACC/INC Destination STUART,FL	int an - NONE - VFR	Airport OFF A Airport SARAS Runwa Runwa Runwa Runwa Runwa	Proximity IRPORT/STRIE Data DTA-BRADENTO	ON - 32 - 7003/ 1 - ASPHALT	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP,CFI,MILITARY SE LAND,ME LAND HELICOPTER Instrument Rating(s) - AIRPLANE,HE		Medical Cer Total Make/Mo 34 Instrum Multi-E	tificate - VALII Flight Time (I - 3200 del- UNK/NR ent- 480 ng - 1550	O MEDICAL-WA Hours) Last 24 Last 30 Last 90 Rotorer	AIVERS/LIMI Hrs - 1 Days- 50 Days- 150 aft - 1) 1150
Instrument Rating(s) - AIRPLANE, HELENarrative WITNESSES SAW THE ACFT CLIMB TO AN ALT OF ABOUTHEY HEARD A LOUD NOISE FM THE ACFT, THEN THE AS IF THE PLT WAS TRYING TO RETURN TO THE RWY WHILE TURNING BACK TO THE RWY, THE LEFT WING A IMPACTED THE GND IN A NR FLAT ATTITUDE WHILE : WRECKAGE REVEALED 1 PROP BLADE HAD SEPD FM THID DRG THE PREVIOUS 87 HRS OF OPN, THE ACFT HAD ISTRIKES WITH THE GND. ACCORDING TO RECORDS, TITHE MANUFACTURER (MCCAULEY) & THE FAA. THE PLY	JT 500 TO 800 FT AGL AFT NOTED THAT THE ENG SOU THE PLT TRANSMITTED A NOSE OF THE ACFT DROPP IN A HIGH RATE OF DSCNT, HUB DRG FLT. A METALLU BEEN INVOLVED IN TWO OCC HE HUB WAS INSPECTED & F	ND HAD CEASED. "MAYDAY" REPORT ED & THE PLANE THEN IT SLID I RGICAL EXAM SHO URRENCES OF GEA OUND TO BE IN A	THE ACFT WAS OBS , STATING HE HAI ENTERED A LEFT I NTO A TREE & BUI WED THE HUB HAD R COLLAPSE, WHI CCORDANCE WITH	SERVED TO MAD "LOST THE DSCNDG TURN. RNED. AN EXAFAILED FM FOR RESULTED FM FOR RESULTED FM FOR REQUIREM	NEUVER ENGINE." IT M OF THE TATIGUE. IN PROP MENTS OF	

File No. - 1417 8/02/89 SARASOTA,FL A/C Reg. No. N24586 Time (Lcl) - 1350 EDT

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. PROPELLER SYSTEM/ACCESSORIES, HUB - PREVIOUS DAMAGE

- 2. MAINTENANCE, INSPECTION OF AIRCRAFT INADEQUATE -
- 3. PROPELLER SYSTEM/ACCESSORIES, HUB FATIGUE
- 4. PROPELLER SYSTEM/ACCESSORIES, BLADE SEPARATION

5. POWERPLANT - VIBRATION

Occurrence #2 FORCED LANDING

Phase of Operation MANEUVERING - TURN TO LANDING AREA (EMERGENCY)

Occurrence #3 LOSS OF CONTROL - IN FLIGHT

Phase of Operation MANEUVERING - TURN TO LANDING AREA (EMERGENCY)

Finding(s)

6. AIRSPEED (VS) - NOT MAINTAINED - PILOT IN COMMAND

7. STALL/MUSH - INADVERTENT - PILOT IN COMMAND

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: FAILURE OF THE PROPELLER HUB DUE TO PREVIOUS DAMAGE, WHICH RESULTED IN SUBSEQUENT FATIGUE FAILURE OF THE HUB; AND FAILURE OF THE PILOT TO MAINTAIN FLYING SPEED, WHICH RESULTED IN A STALL AND SUBSEQUENT IMPACT WITH THE GROUND. INADEQUATE MAINTENANCE/INSPECTION OF THE PROPELLER HUB (AFTER THE PROPELLER STRIKES) WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

File No 1581 8/12/89	MALABAR, FL	A/C Reg. No. N30)2RS	Time (Lcl) - 1	600 EDT	
Type Operating Certificate-NONE (C Type of Operation -TEST FI Flight Conducted Under -14 CFR Accident Occurred During -TAKEOFI	GENERAL AVIATION) LT 91			Injurie Serious 0 0	s Minor No 0 0	one 1 0
Aircraft Information Make/Model - SMITH KITFOX II Landing Gear - TAILWHEEL-ALL FIXI Max Gross Wt - UNK/NR No. of Seats - 2	Eng Make/N D Number Eng Engine Typ Rated Powe	Model - ROTAX 532LC gines - 1 pe - RECIPROCATING er - 64 HP	EL1	Installed/Act Stall Warning		-N/A
Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 060/007 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 1500 FT Lowest Ceiling - 20000 FT Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary EFING Last Depart SAME AS A Destination LOCAL ATC/Airspace SCATTERED Type of Fli EBROKEN Type Apch/I	cure Point ACC/INC	Airport ON Al Airport VALKA Runwa Runwa Runwa Runwa	Proximity RSTRIP Data	3600/ 75 SPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 46 Biennial Flight F Current Months Since Aircraft Type	Medical Ce Review - UNK/NR Total - UNK/NR Make/M - UNK/NR Instru Multi-	ertificate - VALI Flight Time (- 1200 Model- UNK/NR Mment- UNK/NR Eng - UNK/NR	D MEDICAL-WAIV Hours) Last 24 H Last 30 D Last 90 D Rotorcraf	ERS/LIMIT rs - UNK/NR ays- UNK/NR ays- UNK/NR t - UNK/NR	
Instrument Rating(s) - NONE Narrative THE PLT STATED THAT DURING TAKEOFF ON THE PLT STATED THAT DURING TAKEOFF ON THE PROPERTURE END OF THE RWY. THAT THE HORIZONTAL STABILIZER WAS PROPERTURE FROM THE DESIGNED 25 DEGREES. THE C.G. WAS REPRID	THE PLT WAS RPRTD TO HAVE HORIZONTAL STABILIZER CRLY POSITIONED. THE WINDWNWARD DEFLECTION OF THE	ITERED A NOSE HIGH AT TE SAID THAT "THERE W WAS PAST THE NEGATIV IG TWIST WAS FOUND TO	MAS INSUFFICIENT TE LIMITS." THE BE 1.88 DEG PEF	DOWNWARD ELEVA ACFT DESIGNER 13.5 FT VERSU	TOR RPRTD S THE	

File No. - 1581 8/12/89 MALABAR, FL A/C Reg. No. N302RS Time (Lcl) - 1600 EDT

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

Finding(s)

1. WING - INCORRECT

- 2. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 3. STALL INADVERTENT 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: FAILURE OF THE PILOT TO MAINTAIN ADEQUATE AIRSPEED DURING TAKEOFF, WHICH RESULTED IN A STALL.

File No 1424 8/13/89 PASS-A	-GRILLE, FL	A/C Reg. No. N9	9901	Time (Lcl) -	- 1355 EDT	ı
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -DEMO FLT Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	AVIATION) Ai I Fi N	rcraft Damage ESTROYED re IONE	Fatal Crew 1 Pass 3	Inju Serious O O	ries Minor 0 0	None 0 0
Aircraft Information Make/Model - CESSNA 172P Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2400 No. of Seats - 4	Number Engines Engine Type Rated Power	- 160 HP		T Installed/ <i>I</i> Stall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 020/005 KTS Visibility - 14.0 SM Lowest Sky/Clouds - 2000 FT SCATTI Lowest Ceiling - 10000 FT BROKEI Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	ERED Type of Flight	,FL Plan - COMPANY	OFF Airpor Runw Runw (VFR) Runw	t Proximity AIRPORT/STRIE t Data ay Ident ay Lth/Wid - ay Surface - ay Status -	- N/A - N/A - N/A	
	Age - 42 Biennial Flight Revie Current - Y Months Since - 1 Aircraft Type - C	4 Make/N -172 Instru	ertificate - VAI Flight Time - 3458 Model- 245 Mment- 479 -Eng - 1005	ID MEDICAL-NO (Hours) Last 24 Last 30 Last 90	WAIVERS/ Hrs - 0 Days- 1 Days- 14	LIMIT
Instrument Rating(s) - AIRPLANENarrative THE ACFT WAS BEING USED TO DEMONSTRATE FLT CHANGE ACFT ENTERED A DESCENT & CRASHED APRX 3 MI IT WAS SPINNING IN A NOSE DOWN ATTITUDE. THE ACCOR MALFUNCTION OF THE ACFT WAS FOUND. A CHECK COVER ITS MAX WT LIMIT. RADAR DATA SHOWED THAT COURNS.	FROM LAND. A WITNESS FT SANK ALMOST IMMED FF THE WEIGHT & BALAN	, WHO SAW THE AC IATELY IN 28 FT CE INFO SHOWED T	OFT JUST BEFORE OF WATER. NO PR THE ACFT HAD BEE	IMPACT, RPRTE EIMPACT PART N LOADED APRA	THAT FAILURE 114 LBS	

File No. - 1424 8/13/89 PASS-A-GRILLE, FL A/C Reg. No. N99901 Time (Lcl) - 1355 EDT

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

Finding(s)

- 1. AIRCRAFT WEIGHT AND BALANCE EXCEEDED PILOT IN COMMAND
- 2. MANEUVER INITIATED PILOT IN COMMAND
- 3. STALL/SPIN'- NOT CORRECTED PILOT IN COMMAND
- 4. ALTITUDE INADEQUATE PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation DESCENT - UNCONTROLLED

Finding(s)

5. TERRAIN CONDITION - WATER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO RECOVER FROM A STALL/SPIN. EXCESSIVE GROSS WEIGHT OF THE AIRCRAFT AND LACK OF AVAILABLE ALTITUDE FOR SPIN RECOVERY WERE PROBABLE CONTRIBUTING FACTORS.

File No 1428 8/19/89 CLERMO		A/C Reg. No. N12		T	ime (Lcl) -	1430 EDT	
Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF				Fatal 0 0	Injuri Serious 0 0	es Minor 0 1	None 1 0
Aircraft Information Make/Model - COCCHIARELLA BUCCANEER I Landing Gear - TAILWHEEL-RETRACTABLE MA Max Gross Wt - 1025 No. of Seats - 2	I Eng Make/Mo AINS Number Engi Engine Type Rated Power	odel - ROTAX 532LC nes - 1 - RECIPROCATING - 65 HP	G-CARBURE!	ELT : S	Installed/Adtall Warning	ctivated - g System -	- NO -N/A - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 130/004 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 3000 FT SCATT Lowest Ceiling - 25000 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Destination LOCAL ATC/Airspace ERED Type of Flig N Type of Clea	re Point C/INC tht Plan - NONE rance - NONE dg - NONE		ON AIRS Airport I FLYING Runway Runway		05 1100/	70 RF
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 33 Biennial Flight Re Current Months Since Aircraft Type	Medical Ce view Total - YES Total - 1 Make/M - C-152 Instru	ertificate Flight - 201 Model- 120 Model- 120	e - VALID Time (Ha l)	MEDICAL-WAI ours) Last 24 Last 30 Last 90	VERS/LIMI Hrs - 1 Days- 7 Days- 17	T
Instrument Rating(s) - NONE							
THE PLT ELECTED TO TAKEOFF FROM A 1100 FT RWY HE STATED THAT WHEN THE SPEED WAS ADEQUATE, HE ACFT WOULD NOT CLEAR A TREE LINE NEAR THE END IN LOSS OF THE VERTICAL COMPONENT OF LIFT. SUB THE ENG OPERATED NORMALLY DRG A POST-ACDNT CHE 73 DEG & 30 FT, RESPECTIVELY. APRX 25 MI EAST	ROTATED THE ACFT OF THE RWY. HE INI SEQUENTLY, THE ACF CK. THE TEMP, DEW	& IT LIFTED OFF. AF TIATED A TURN TO AV T DESCENDED, IMPACT POINT & ELEVATION A	TER LIFT- OID THE TED IN A VALUE OF THE AIR	-OFF, HE I TREES, WHI JACANT FII RSTRIP WEI	REALIZED THE ICH RESULTEI ELD & WAS DA RE 90 DEG,)	

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 3. CLIMB NOT ATTAINED -
- 4. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 5. MANEUVER INITIATED PILOT IN COMMAND
- 6. DESCENT INADVERTENT -

----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 A SUBSEQUENT COLLISON WITH THE GROUND, WHEN THE ACFT WOULD NOT CLIMB AFTER TAKEOFF. THE HIGH OBSTRUCTIONS (TREES) AND HIGH DENSITY ALTITUDE WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

File No 1431 9/03/89 PERR	Y,FL	A/C Reg. No. N4CD	Ti	me (Lcl) -	1902 EDT	
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION) Ai S Fi N	rcraft Damage UBSTANTIAL re Crew ONE Pass	Fatal 7 0 8 0	Injuri Serious 0 0	les Minor 0 1	None 1 0
Aircraft Information Make/Model - PIPER PA-24-250 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2800 No. of Seats - 4	Eng Make/Model	- I.YCOMING 0-540-3105	кт.т т	nstalled/Ac	rtivated -	YES/YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 010/006 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 2900 FT SCAT Lowest Ceiling - 25000 FT OVER Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure DOTHAN, AL Destination LAKELAND, FL ATC/Airspace TTERED Type of Flight	Point	Airport P OFF AIR Airport D	roximity PORT/STRIP ata	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,FLT ENG SE LAND	Age - 62 Biennial Flight Revie Current - Y. Months Since - 1 Aircraft Type - P.	Medical Certifica w Flig ES Total - 6 7 Make/Model- 1 A-28 Instrument- U Multi-Eng - U	te - VALID : ht Time (Ho 000 22 NK/NR NK/NR	MEDICAL-WAI urs) Last 24 Last 30 Last 90 Rotorcra	Hrs - 4 Days- 5 Days- 27 ft - UNK	T /NR
Instrument Rating(s) - AIRPLANE						
Narrative WHILE EN ROUTE AT 3500 FT, THE ENG LOST POWER IN A PLOWED FIELD, BUT THE NOSE GEAR COLLAPSE REMOVED. AN INTERNAL EXAM REVEALED THE FLOAT- WEAR. EXCESSIVE FLOAT DROP (BETWEEN 1.58 & 1. TO ENTER THE CHAMBER. ALSO, THE FLOAT CHAFFEI NO OTHER MECHANICAL PROBLEM WAS EVIDENT.	R & ATTEMPTS TO RESTART D & THE ACFT WAS DAMAG -TO-BOWL CLEARANCE WAS .8 INCHES) WAS REQUIRE	IT WERE UNSUCCESSFUL. ED. DURING AN INVESTIGA LESS THAN REQUIRED DUE D TO START THE NEEDLE V	THE PLT LAN TION, THE C TO FLOAT SH ALVE OPENIN	ARBURETOR W AFT BRACKET G & ALLOW F	IAS ' 'UEL	

File No. - 1431 9/03/89 PERRY,FL A/C Reg. No. N4CD Time (Lcl) - 1902 EDT

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

Finding(s)

1. FUEL SYSTEM, CARBURETOR FLOAT - WORN

2. FUEL SYSTEM, CARBURETOR FLOAT - MOVEMENT RESTRICTED

3. FLUID, FUEL - STARVATION

Occurrence #2 FORCED LANDING

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 NOSE GEAR COLLAPSED Phase of Operation LANDING - ROLL

Finding(s)

4. TERRAIN CONDITION - SOFT

5. LANDING GEAR, NOSE GEAR - OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL STARVATION DUE TO WEAR AND RESTRICTED MOVEMENT OF THE CARBURETOR FLOAT, WHICH RESULTED IN LOSS OF ENGINE POWER. SOFT TERRAIN IN THE EMERGENCY LANDING AREA CONTRIBUTED TO OVERLOAD FAILURE OF THE NOSE GEAR.

	AIRCRAFT Aircraft	Damage		Injur	ies	
Type of Operation -AERIAL APPLIC Flight Conducted Under -14 CFR 137 Accident Occurred During -LANDING	SUBSTAI	Damage NTIAL Cre Pas	Fatal w 0 ss 0	Serious 0 0	Minor 0 0	None 1 0
-Aircraft Information Make/Model - CESSNA A188B Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 4000 No. of Seats - 1	Eng Make/Model - CON Number Engines - 1 Engine Type - REC Rated Power -	NTINENTAL 10-520- CIP-FUEL INJECTED 300 HP	-D ELT S	Installed/A tall Warnin	ctivated - g System -	- NO -N, - YES
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 - 10 0 SM	Itinerarv	- NONE - NONE	OFF AI Airport Runway	Proximity RPORT/STRIP Data Ident - Lth/Wid - Surface - Status -	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND Instrument Rating(s) - AIRPLANE	Age - 56 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - C-150	Medical Certific Fli Total - Make/Model- Instrument- Multi-Eng -	eate - VALID ght Time (F 2100 UNK/NR 178 733	MEDICAL-WA ours) Last 24 Last 30 Last 90	IVERS/LIMI Hrs - 2 Days- 50 Days- 50	IT

A/C Reg. No. N21752 File No. - 1579 10/04/89 WAUCHULA, FL Time (Lcl) - 1100 EDT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. FLUID, FUEL - LOW LEVEL

2. FLUID, FUEL - STARVATION

3. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND

Occurrence #2 FORCED LANDING

Phase of Operation MANEUVERING - TURN TO LANDING AREA (EMERGENCY)

Finding(s)

4. EMERGENCY PROCEDURE - NOT ATTAINED - PILOT IN COMMAND

Occurrence #3 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL STARVATION, IMPROPER PLANNING/DECISION BY THE PILOT, AND HIS FAILURE TO ATTAINED THE EMERGENCY PROCEDURE. FACTORS RELATED TO THE ACCIDENT WERE: THE LOW FUEL LEVEL, AND IMPROPER PLANNING/DECISION BY THE PILOT.

File No 1433 10/06/89 OR Basic Information		/C Reg. No. N40340		Time (Lcl) -		
Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	ERAL AVIATION) AIR SUI	BSTANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	e C	rew 0	0	0	1
Accident Occurred During -LANDING	INOI	NE E	ass 0			
Aircraft Information	Eng Maka/Madal	- EDANKITN 6A-350-C	 1 ਛਾਸ	T Installed/A	ctivated .	_ IINW/N
Make/Model - MAULE M-4-220C Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Model - Number Engines - Engine Type -	- 1	1 50	Stall Warnin	g System -	- YES
Max Gross Wt - 2300 No. of Seats - 4	Engine Type - Rated Power -	- RECIPROCATING-CAR	BURETOR		-	
Environment/Operations Information	1/4004 101161					
Weather Data	Itinerary			t Proximity		
Wx Briefing - NO RECORD OF BRIEF		oint	ON A	IRPORT		
Method - N/A Completeness - N/A Basic Weather - VMC	ORLANDO,FL Destination		Airpor	t Data		
Basic Weather - VMC	SAME AS ACC/INC	C .	ORLA	NDO EXECUTIVE		
Wind Dir/Speed- 110/008 KTS Visibility - 7.0 SM	ATC/Airspace		Runw	ay Ident - ay Lth/Wid -	· 07 · 1639/ 1	100
Lowest Sky/Clouds - CLEAR	Type of Flight Pl	lan - NONE		ay Surface -		
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance	- NONE	Runwa	ay Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP				
Precipitation - NONE Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Nac - 74	Madical Cortif	icato - VAI	ID MEDICAL —WA	TUEDO /T TMI	rm
Certificate(s)/Rating(s)	Biennial Flight Review	F:	light Time	(Hours)	TARKS) DIM	L T
PRIVATE	Current - YES	Total .	- 1303	Last 24	Hrs - UNE	K/NR
Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, SE SEA	Months Since - 12	Make/Model	- 771 - 69	Last 30	Days- UNE	K/NR K/ND
	Affectant Type Con	102 Instrument	03	Rotorcr	aft -	335
Instrument Rating(s) - AIRPLANE						
 Narrative						
PLT LANDED ON RWY 7 WITH A WIND FROM 1						
HE ACFT WAS LOWER THAN IT SHOULD BE. A MAIN GEAR COLLAPSED & THE ACFT CAME TO			ECTIVE. SUB	SEQUENTLY, TH	E	
MAIN GEAR COLLAPSED & THE ACET CAME TO	NEST IN THE MIDDLE OF THE	r KMI.				

File No. - 1433 10/06/89 ORLANDO,FL A/C Reg. No. N40340 Time (Lcl) - 1610 EDT '

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

Finding(s)

1. LANDING GEAR, MAIN GEAR - FAILURE, TOTAL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE LEFT MAIN LANDING GEAR.

File No 1518 10/07/89 ORLANDO,FL	A/C Reg. No. N958VJ	Time (Lcl) - 1850 EDT
Basic Information Type Operating Certificate-AIR CARRIER - FLAG/DOMESTIC Name of Carrier -US AIR Type of Operation -NON SCHED, DOMESTIC, PASSENGE Flight Conducted Under -14 CFR 121 Accident Occurred During -TAXI	C Aircraft Damage NONE CR Fire NONE	Injuries Fatal Serious Minor None Crew 0 0 0 5 Pass 0 0 0 102 Other 1 0 0 0
Landing Gear - TRICYCLE-RETRACTABLE Number Max Gross Wt - 104000 Engine	Type - TURBOFAN Power - 14000 LBS THRUS	Т
Environment/Operations Information Weather Data Itinerary Wx Briefing - COMPANY Last Dep Method - TELETYPE SAME A Completeness - WEATHER NOT PERTINENT Destinat Basic Weather - VMC PHILAD Wind Dir/Speed- 030/005 KTS Visibility - 2.000 SM ATC/Airspa Lowest Sky/Clouds - 2000 FT SCATTERED Type of Lowest Ceiling - 8000 FT BROKEN Type of Obstructions to Vision- NONE Type Apo Precipitation - RAIN Condition of Light - DUSK	parture Point S ACC/INC ion ELPHIA,PA	Airport Proximity ON AIRPORT Airport Data ORLANDO INTL Runway Ident - UNK/NR Runway Lth/Wid - UNK/NR Runway Surface - CONCRETE Runway Status - WET
Personnel Information Pilot-In-Command Age - 35 Certificate(s)/Rating(s) Biennial Fligh ATP Current ME LAND Months Sin Aircraft T Instrument Rating(s) - AIRPLANE	Medical Certi t Review - YES Total ace - UNK/NR Make/Mode Type - UNK/NR Instrumen Multi-Eng	ficate - VALID MEDICAL-NO WAIVERS/LIMIT Flight Time (Hours) - 12800
Narrative RAINFALL BECAME MODERATE TO HEAVY AS THE ACFT WAS BEING PUSH LIGHTNING STRUCK THE TAIL OF THE ACFT WHILE A MECHANIC (GROU LIGHTNING TRAVELED THRU THE ACFT & FATALLY INJURED THE MECHA LIGHTNING IN THE AREA BEFORE THE ACDNT, BUT THEY HAD NOT OBS PHONE CONVERSATION WITH TOWER PSNL. THE AIRLINE'S SAFETY MA LIGHTNING.	ND GUIDE) WAS WEARING A HE NIC. WITNESSES & SUPERVIS ERVED ANY FOR ABOUT 15 MIN	ADSET CONNECTED TO THE ACFT. THE ORS STATED THAT THEY HAD OBSERVED ; PUSH BACK WAS INITIATED AFTER

File No. - 1518 10/07/89 ORLANDO, FL A/C Reg. No. N958VJ Time (Lcl) - 1850 EDT

Occurrence #1 ON GROUND ENCOUNTER WITH WEATHER Phase of Operation TAXI - PUSHBACK/TOW

Finding(s)

1. WEATHER EVALUATION - INADEQUATE - COMPANY/OPERATOR MGMT

- 2. SUPERVISION INADEQUATE COMPANY/OPERATOR MGMT
- 3. PROCEDURES/DIRECTIVES NOT FOLLOWED GROUND PERSONNEL
- 4. OBJECT LIGHTNING STRIKE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE WEATHER EVALUATION AND INADEQUATE SUPERVISION OF THE GROUND GUIDE (MECHANIC) BY COMPANY/OPERATOR/MANAGEMENT PERSONNEL, FAILURE OF THE GROUND GUIDE TO FOLLOW SAFETY PROCEDURES, AND THE WEATHER CONDITION (LIGHTNING).

File No 1444 10/08/89 TAMP.		A/C Reg. No. N814		Т	ime (Lcl) -	2105 EDT	
Basic Information Type Operating Certificate-NONE (GENER, Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		rcraft Damage UBSTANTIAL re ONE		Fatal 0 0	Injuri Serious 0 0	es Minor 0 1	None 1 2
Aircraft Information Make/Model - PIPER PA-28-161 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2325 No. of Seats - 4	Eng Make/Model Number Engines Engine Type Rated Power	 RECIPROCATING- 			Installed/Actall Warning		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 330/005 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 4000 FT SCAM Lowest Ceiling - NONE	TTERED Type of Flight Type of Clearan Type Apch/Lndg	,FL Plan - IFR ce - IFR		ON AIR Airport VANDEN Runway Runway Runway	Data	3260/ ASPHALT	65
SE LAND	Age - 38 Biennial Flight Revie Current - Y Months Since - 1 Aircraft Type - P	Medical Cer W ES Total 7 Make/Mc A-28 Instrum Multi-E	rtificate Flight - 440 odel- 335 ment- Eng -	e - VALID Time (H) 5 91 0	MEDICAL-NO ours) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/I Hrs - 1 Days- 31 Days- 55 ft -	JIMIT
Instrument Rating(s) - AIRPLANE							
Narrative DURING TAKEOFF AT NIGHT, THE AIRPLANE COLLIDE THAT HE WAS UNABLE TO SEE THE ANIMAL ON THE A THERE WERE SEVERAL ACCESS POINTS WHERE A LARG POINT WAS NOT DETERMINED.	APSHALT RUNWAY WITH A D	ARK BACKGROUND UN	NTIL JUST	r before	IMPACT.		

File No 14	144 10/08/89 TAMPA,FL	A/C Reg. No. N8149J	Time (Lcl) - 2105 EDT	
Occurrence #1 Phase of Operation	ON GROUND COLLISION WITH OBJECT TAKEOFF - GROUND RUN			
Finding(s) 1. OBJECT - ANIMAL	(s)			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN ANIMAL (COW) THAT HAD WANDERED ONTO THE ARPT.

File No 1580 10/28/89 ZEL	LWOOD,FL A/C Reg. No. N8	80528 	Time (Lcl) - 1600 E	OT
Basic Information Type Operating Certificate-NONE (GENE Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	RAL AVIATION) Aircraft Damage SUBSTANTIAL Fire NONE	Fatal Crew O Pass O	Injuries Serious Minor 0 0 0 0	None 1 1
Aircraft Information Make/Model - TEMCO GC-1B Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1741 No. of Seats - 2	Eng Make/Model - CONTINENTAL Number Engines - 1 Engine Type - RECIPROCATIN Rated Power - 125 HP		Installed/Activate Stall Warning System	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 360/020 KTS Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary NG Last Departure Point SAME AS ACC/INC Destination CLEARWATER, FL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - NONE	OÑ AI Airport BOB W Runwa Runwa Runwa		150 TURF
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 59 Medical C Biennial Flight Review Current - YES Total Months Since - 7 Make/ Aircraft Type - GC-1B Instr	Flight Time (L - 525 /Model- 104 cument- UNK/NR	Hours)) 7 23
Instrument Rating(s) - NONE				

File No. - 1580 10/28/89 ZELLWOOD,FL A/C Reg. No. N80528 Time (Lcl) - 1600 EDT

Cocurrence #1 Loss of Control - on Ground
Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

1. WEATHER CONDITION - CROSSWIND

2. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND

3. DIRECTIONAL CONTROL - NOT POSSIBLE - PILOT IN COMMAND

4. GROUND LOOP/SWERVE - UNCONTROLLED - PILOT IN COMMAND

Cocurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER
Phase of Operation ON GROUND COLLISION WITH TERRAIN/WATER

Finding(s)

5. TERRAIN CONDITION - DITCH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT. THE CROSSWIND AND DITCH WERE RELATED FACTORS.

File No 1437 11/02/89 LOX	11/02/89 LOXAHATCHEE,FL A/C Reg. No. N93067 Time (Lcl) -					
Accident Occurred During -DESCENT	AL AIRCRAFT Aircraft Damage SUBSTANTIAL LICATION Fire NONE	Injuries Fatal Serious Minor None Crew 0 2 0 0 Pass 0 0 0				
Aircraft Information Make/Model - BELL 47D1 Landing Gear - SKID Max Gross Wt - 2200 No. of Seats - 2	Eng Make/Model - FRANKLIN 6V4 Number Engines - 1 Engine Type - RECIPROCATING- Rated Power - 210 HP	ELT Installed/Activated - NO -1 Stall Warning System - NO CARBURETOR				
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 315/001 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC Destination LOCAL	Airport Proximity OFF AIRPORT/STRIP Airport Data Runway Ident - N/A Runway Lth/Wid - N/A Runway Surface - N/A Runway Status - N/A				
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND HELICOPTER Instrument Rating(s) - NONE	Age - 27 Medical Cer Biennial Flight Review Current - YES Total Months Since - 6 Make/Mo Aircraft Type - BELL 47 Instrum	tificate - VALID MEDICAL-NO WAIVERS/LIMIT Flight Time (Hours) - 370 Last 24 Hrs - UNK/NR del- 70 Last 30 Days- UNK/NR ent- 10 Last 90 Days- UNK/NR Rotorcraft - 85				

File No. - 1437 11/02/89 LOXAHATCHEE,FL A/C Reg. No. N93067 Time (Lcl) - 0930 EST

Cocurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)
1. PULL-UP - PERFORMED 2. ROTOR RPM - NOT MAINTAINED - PILOT IN COMMAND
3. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND

Cocurrence #2 IN FLIGHT COLLISION WITH OBJECT
Phase of Operation DESCENT - UNCONTROLLED

Finding(s)
4. OBJECT - TREE(s)
----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN ROTOR RPM AFTER PULLING UP FROM A SWATH RUN. A RELATED FACTOR WAS THE PRESENCE OF TREES.

File No 1434 11/03/89 IMMOR	ALEE, FL A/C Reg. No		Time (Lcl) - 1540 ES	ľ
Type OperationBasic Information Type Operating Certificate-NONE (GENERATION		ge Fatal Crew O Pass O	Injuries Serious Minor 0 1 0 1	None 0 0
Aircraft Information Make/Model - PIPER PA-18-150 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750 No. of Seats - 2	Eng Make/Model - LYCOMING Number Engines - 1 Engine Type - RECIPROC Rated Power - 150 H	O-320-A2B ELT ATING-CARBURETOR P	Installed/Activated Stall Warning System	- YES/YES - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 045/010 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SAME AS ACC/INC Destination LAKE PLACID, FL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - NONE	Airport OFF A Airport Runwa Runwa Runwa Runwa	Proximity IRPORT/STRIP Data y Ident - N/A y Lth/Wid - N/A y Surface - N/A y Status - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 41 Medic Biennial Flight Review Current - NO T Months Since - 28 M Aircraft Type - PA-18 I	al Certificate - VALI Flight Time (1 otal - 1510 ake/Model- 300 nstrument- UNK/NR ulti-Eng - 0	D MEDICAL-WAIVERS/LIM Hours) Last 24 Hrs - 1 Last 30 Days- 20 Last 90 Days- 30 Rotorcraft -	MIT O O
Instrument Rating(s) - NONE		·		
Narrative AFTER TAKEOFF, THE PLT TURNED TO A NORTHERLY THE AIRSTRIP. THIS HEADING TOOK THE ACFT TOWN SELECTED A FLT PATH OVER THE LOWEST SAG IN THE ABOVE THE MAIN TRANSMISSION LINES. SUBSEQUENT THE ACFT'S FORWARD MOVEMENT & IT DROPPED NEAF	RD HIGH TENSION POWER LINES, JUST E LINES; HOWEVER, NEITHER HE NOR LY, THE ACFT COLLIDED WITH AN UPP	NORTH OF THE PRIVATE THE PASSENGER SAW THE	STRIP. THE PLT STATIC CABLES	

File No. - 1434 11/03/89 IMMOKALEE, FL A/C Req. No. N4129E Time (Lcl) - 1540 EST

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING

Finding(s)

1. LOW PASS - INITIATED -

- 2. PROPER ALTITUDE NOT MAINTAINED PILOT IN COMMAND
- 3. OBJECT WIRE, STATIC
- 4. VISUAL LOOKOUT 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: FAILURE OF THE PILOT TO MAINTAIN PROPER ALTITUDE AND HIS FAILURE TO MAINTAIN ADEQUATE VISUAL LOOKOUT TO SEE AND AVOID OBSTRUCTIONS. THE STATIC LINE (OBSTRUCTION) WAS A CONTRIBUTING FACTOR.

File No 1432 11/05/89	A/C Reg. No. N131E	?₩ 	Time (Lcl) - 1245 EST				
-Basic Information Type Operating Certificate-NONE (Type of Operation -PERSON Flight Conducted Under -14 CFR Accident Occurred During -LANDIN	G	rcraft Damage UBSTANTIAL re ONE	Crew Pass	Fatal 0 0	Inju Serious 0 0	uries Minor 0 0	None 1 0
-Aircraft Information Make/Model - WARREN/KELEHER/LA Landing Gear - TAILWHEEL-ALL FIX Max Gross Wt - 1050 No. of Seats - 1	RK JK-1B Eng Make/Model ED Number Engines	- CONTINENTAL 0-2 - 1 - RECIPROCATING-0 - 100 HP	200-A CARBURETO	ELT I St R		Activated - ng System -	
-Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BR Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 040/007 KTS Visibility - 7.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 25000 F Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGH	Itinerary Last Departure I SAME AS ACC/IN Destination LOCAL ATC/Airspace Type of Flight I Type of Clearand Type Apch/Lndg	Point	A.	ON AIRE irport I RICHARI Runway Runway Runway Runway	Data OS FIELD Ident Lth/Wid	- 2620/ :	300 RF
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, SE SEA GLIDER	Age - 35	Medical Cert W ES Total 4 Make/Mod AC Instrume Multi-Er	rificate filight 1074 del 15 ent eng -	Time (Ho	urs)	MAIVERS/10 WAIVERS/124 Hrs - 1 130 Days- 12 130 Days- 40 130 Days- 40 130 Eraft -	

File No. - 1432 11/05/89 HOMESTEAD.FL A/C Reg. No. N131PW Time (Lcl) - 1245 EST Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation LANDING - ROLL Finding(s) 1. LANDING GEAR, WHEEL - SEIZED Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 2. DIRECTIONAL CONTROL - NOT POSSIBLE -3. GROUND LOOP/SWERVE - UNCONTROLLED -Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING Finding(s) 4. OBJECT - AIRCRAFT PARKED 5. OBJECT - VEHICLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: SEIZURE OF THE LEFT MAIN GEAR WHEEL. CONTRIBUTING FACTORS WERE: THE PARKED AIRCRAFT AND VEHICLE (CAR) NEAR THE RUNWAY.

File No 1450 11/15/89 PEMBRO	OKE PINES, FL	A/C Reg.	A/C Reg. No. N15LH		Time (Lcl) - 1304 EST			ST
Type OperationPERSONAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft D DESTROYED Fire NONE	amage	F Crew Pass	atal 0 0	Inju Serious 0 0	ries Minor 1 0	None 0 0
Aircraft Information Make/Model - PIPER PA-23-250 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5200 No. of Seats - 6								d - YES/NO n - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 120/009 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 20000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depa HOLLYWO Destinati MIAMI,F	rture Point OD,FL on L		Ai Ai	rport 1 OFF AII rport 1 NORTH 1 Runway Runway Runway	Proximity RPORT/STRI Data	P - 09R - 3000/ - ASPHAL	100
Instrument Rating(s) - NONE	Age - 31. Biennial Flight Current Months Sinc Aircraft Ty					MEDICAL-N burs) Last 2 Last 3 Last 9	O WAIVER: 4 Hrs - T O Days- T O Days- T	S/LIMIT JNK/NR JNK/NR JNK/NR
AFTER TAKEOFF, THE ACFT WAS MANEUVERED DOWNWIN ABEAM MID-FIELD, THE PLT REQUESTED CLNC TO LAN WAS ASKED IF HE HAD ANY DIFFICULTIES. SUBSEQUE THE ARPT, BUT WAS UNABLE TO REACH THE RWY. DROWN EXAM REVEALED THERE WAS WATER & RESIDUE IN SHERIFF'S DEPARTMENT SALE. UNTIL THE DAY OF THE AN ANNUAL INSPN HAD BEEN COMPLETED ON 9/22/89. 4 MIN. NEITHER PROP WAS FEATHERED AFTER THE EN	ID ABOUT 1/2 MI ID BACK ON THE A INTLY, THE PLT R IS AN EMERG LANDI THE FUEL SYS. T IE ACDNT, THE AC THE ACDNT FLT	SOUTH OF THE A RPT. HE WAS CL EPLIED THAT BO NG, THE ACFT H HE OWNER HAD P FT HAD NOT BEE	RPT AT APRX RD FOR RIGH' TH ENGS HAD IT A CHAIN: URCHASED THI N REFUEL SI	1000' A I TRAFFI LOST PC LINK FEN E PREVIC NCE IT W	GL. WHICE TO LAND WER. HICE & WARD WISLY SINGS LASS	AND ON RWY E TURNED T AS EXTENSI EIZED ACFT I FLOWN ON	9R & OWARD VELY DMGI AT A 7/27/89	

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. ALL ENGINES -

- 2. MAINTENANCE, ANNUAL INSPECTION INADEQUATE OTHER MAINTENANCE PSNL
- 3. AIRCRAFT PREFLIGHT INADEQUATE PILOT IN COMMAND

4. FLUID, FUEL - WATER

5. FLUID, FUEL - CONTAMINATION

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Finding(s)

6. PROPELLER FEATHERING - NOT PERFORMED - PILOT IN COMMAND

Occurrence #3 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

7. OBJECT - FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE ANNUAL INSPECTION BY OTHER MAINTENANCE PERSONNEL AND INADEQUATE PREFLIGHT INSPECTION BY THE PILOT, WHICH RESULTED IN FAILURE TO DETECT WATER AND CONTAMINATION (RESIDUE) IN THE FUEL. CONTRIBUTING FACTORS WERE: FAILURE OF THE PLT TO FEATHER THE PROPELLERS AND A FENCE IN THE EMERGENCY LANDING AREA.

File No 1534 11/18/89 FERNA	NDINA BCH, FL	A/C Reg. No.	N6659D	Ti	ime (Lcl) -	1145 EST	
Basic Information Type Operating Certificate-NONE (GENERATIVE Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Aircraft Damage SUBSTANTIAL Fire NONE		Fatal 0 0	Injuri Serious 0 0	es Minor 0	None 1 0
Aircraft Information Make/Model - BEECH 58 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5400 No. of Seats - 6	Number Eng. Engine Type Rated Powe:	odel - CONTINENTA ines - 2 e - RECIP-FUEL r ' - 285 HP		St	call Warning	g System -	- YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 350/005 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 10000 FT SCAT Lowest Ceiling - 25000 FT BROK	Itinerary Last Depart METTER,GA Destination	ure Point CC/INC ght Plan - IFR arance - IFR	C PATTERN	Airport E ON AIRE	Proximity PORT	eTINI T	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND Instrument Rating(s) - AIRPLANE	Age - 50 Biennial Flight Re Current Months Since Aircraft Type	Medical eview - YES Tot - 10 Mak - 58 Ins	Certificate Flight al - 1617 e/Model- 362 trument- 1 ti-Eng -	- VALID Time (Ho 7 166 787	MEDICAL-WAI burs) Last 24 Last 30 Last 90	VERS/LIMI Hrs - UNK Days- UNK Days- UNK	T C/NR C/NR K/NR
DURING FLT, THE PLT NOTED THAT OIL PRESSURE I THE ENG. HE STATED THAT AFTER ENTERING TRAFF BECAME INOP (AS ELECTRICAL POWER WAS LOST). DOWNLOCK LIGHTS. THE PLT MADE A 360 DEG TURN THE LANDING, THE GEAR COLLAPSED & THE ACFT WAD THE TO A PIECE OF CARBON UNDER THE OIL PRESSUBOTH VOLTAGE REGULATORS HAD FAILED INTERNALLY	IC TO LND, HE "LOWI THOUGH HE HEARD & I TO GET SPACING BEI S DAMAGED. AN EXAI RE RELIEF VALVE SEA	ERED" THE GEAR, T FELT THE GEAR EXT HIND ANOTHER ACFT 1 OF THE RGT ENG AT. BOTH ALTERNA	HEN NOTED THA END, HE DID N , THEN CONTD REVEALED THAT TORS TESTED S	AT THE RANOT SEE ITHE APCHIONS THE LOW	ADAR & RADIO LLUMINATION I TO LAND. I OIL PRESSU	S OF THE DURING ORE WAS	··

File No. - 1534 11/18/89 FERNANDINA BCH,FL A/C Reg. No. N6659D Time (Lcl) - 1145 EST

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

Finding(s)

1. LUBRICATING SYSTEM - PRESSURE TOO LOW

- 2. PROPELLER FEATHERING PERFORMED PILOT IN COMMAND
- 3. ELECTRICAL SYSTEM, VOLTAGE REGULATOR FAILURE, TOTAL
- 4. ELECTRICAL SYSTEM, BATTERY LOW LEVEL ______

Occurrence #2

COMPLETE GEAR COLLAPSED

Phase of Operation LANDING

Finding(s)

- 5. GEAR DOWN AND LOCKED NOT ATTAINED PILOT IN COMMAND
- 6. EMERGENCY PROCEDURE NOT PERFORMED 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 PERFORM THE EMERGENCY GEAR EXTENSION PROCEDURE TO ASSURE THAT THE GEAR WAS DOWN AND LOCKED. FACTORS RELATED TO THE ACCIDENT WERE: LOW OIL PRESSURE IN THE RIGHT ENG, FAILURE OF BOTH VOLTAGE REGULATORS, AND THE LOW LEVEL OF CHARGE IN THE BATTERY.

File No 1535 11/21/89 MIMS,	FL	A/C Reg. No. N	7628V	Ti	me (Lcl) -	1200 EST	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -CHECK FLT Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) F	Aircraft Damage SUBSTANTIAL Cire NONE	Crew Pass			ies Minor 0 0	None 2 0
Aircraft Information Make/Model - CESSNA 177RG Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2800 No. of Seats - 4					nstalled/A all Warnin		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - IN PERSON Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 300/008 KTS Visibility - 6.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure SANFORD,FL	Point		Airport P	PORT/STRIP	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - AIRPLANE		Multi	r-eng -	1		WAIVERS/I Hrs - 1 Days- 14 Days- 20	JIMIT
Narrative WHILE ON A COMMERCIAL PLT CHECK FLT, THE APPL SIMULATED FORCED LANDING. AT AN ALT OF ABOUT THE APPLICANT WAS TOLD TO GO AROUND. THE APPL CORRECT THE PROBLEM, THE ACFT OVERFLEW MOST OF SAPLINGS & THE ACFT WAS DAMAGED DURING AN EMER WAS WORN & HAD FAILED, WHICH ALLOWED THE INNER	500 FT, AFTER THE EXA ICANT APPLIED THROTTI F THE ROAD. UNABLE TO RGENCY LANDING. AN E	ULATED ENG FAILU MINER WAS ASSURE E, BUT THE ENG D LAND ON THE ROA XAM OF THE ENG F	JRE. HE SEL ED THE APPL DID NOT RES AD, THE PLT	LECTED A D LICANT COU EPOND. WHI	IRT ROAD F LD HAVE LA LE ATTEMPT D A FIELD	NDED, ING TO OF	

File No. - 1535 11/21/89 MIMS,FL A/C Reg. No. N7628V Time (Lcl) - 1200 EST

Cocurrence #1 LOSS OF ENGINE POWER (PARTIAL) - MECH FAILURE/MALF
Phase of Operation GO-AROUND (VFR)

Finding(s)

1. THROTTLE/POWER LEVER - WORN
2. THROTTLE/POWER LEVER - FAILURE, TOTAL

Cocurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Cocurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation LANDING

Finding(s)
3. TERRAIN CONDITION - HIGH VEGETATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A WORN THROTTLE CONTROL ASSEMBLY THAT HAD FAILED.

File No 1513 11/27/89 COCBasic Information							
Type Operating Certificate-NONE (GENE Type of Operation -INSTRUCTIO Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	RAL AVIATION) Aircr SUBS NAL Fire NONE					None 1 0	
-Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Eng Make/Model - : Number Engines - : Engine Type - : Rated Power -	LYCOMING 0-235-L2C 1 RECIPROCATING-CARBURE 110 HP	ELT I St FOR	nstalled/Ac all Warning	ctivated g System		
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 030/007 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 3000 FT SC Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary NG Last Departure Poir SAME AS ACC/INC Destination LOCAL ATC/Airspace ATTERED Type of Flight Plan Type of Clearance Type Apch/Lndg	nt n - NONE - NONE	Airport P ON AIRP Airport D MERRITT Runway Runway Runway	roximity ORT ata	11 3600/ ASPHALT	75	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	•	Medical Certificate Flight Total - 40 Make/Model- 40 Instrument- UNI Multi-Eng - UNI	e - VALID : Time (Ho	MEDICAL-NO urs) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/ Hrs - UNI Days- UNI Days- 40	LIMIT K/NR K/NR K/NR	
Instrument Rating(s) - NONE 							
NATIATIVE ING THE LANDING ROLL, ON THE 7TH TOUCH-& I SIDE OF THE RWY, ENCOUNTERED A DITCH & ZALED NO EVIDENCE OF A FAILURE OR MALFUN	NOSED OVER. THE PLT STATED	ONTROL OF THE AIRPLANE THE LEFT BRAKE LOCKED	E. IT THEN DUP; HOWE	VEERED OFF VER, AN EXA	THE M		

File No. - 1513 11/27/89 COCOA,FL A/C Req. No. N48472 Time (Lcl) - 1545 EST ______ 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. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - DITCH 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 PILOT TO MAINTAIN DIRECTIONAL CONTROL DURING THE LANDING ROLL, WHICH RESULTED IN AN INADVERTENT GROUND SWERVE. FACTORS RELATED TO THE ACCIDENT WERE THE CROSSWIND CONDITION AND DITCH.

Basic Information Type Operating Certificate-NONE (GENER	RAL AVIATION)	Aircraft Damage			Injur:	ies	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	·	Aircraft Damage DESTROYED Fire NONE		Fatal 0 0	Serious 0 0	Minor 0 0	None 1 0
Aircraft Information Make/Model - MOONEY M20 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2575 No. of Seats - 4	Number En	Model - LYCOMING O- gines - 1 pe - RECIPROCATI er - 180 HP		St	Installed/Acall Warning	ctivated g System	- YES/I
Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 310/016 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart FREEPRT, Destination FORT LAUG ATC/Airspace Type of Fl. Type of Cle	n DERDALE,FL		Airport D Runway Runway Runway Runway	RPORT/STRIP	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, ME LAND Instrument Rating(s) - NONE	Age - 28 Biennial Flight I Current Months Since Aircraft Type	Medical Review Tota - UNK/NR Tota - UNK/NR Make - UNK/NR Inst Mult	Certificate Flight 1 - 120 /Model- UNK rument- UNK i-Eng -	- VALID	MEDICAL-NO	WAIVERS	'LIMIT
Instrument Rating(s) - NONE	T WAS UNABLE TO RES	STORE POWER OR MAIN	TAIN ALTITU	DE. SUBSE			

File No. - 1488 12/24/89 FORT LAUDERDALE, FL A/C Reg. No. N6879N Time (Lcl) - 1652 EST

Occurrence #1 LOSS OF ENGINE POWER Phase of Operation CRUISE - NORMAL

Finding(s)

1. REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

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

Finding(s)

2. TERRAIN CONDITION - WATER, ROUGH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PARTIAL LOSS OF ENGINE POWER FOR AN UNKNOWN REASON.

File No 1501 12/28/89 SA		/C Reg. No. N831SR		lime (Lcl) -		
Basic Information Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	UERAL AVIATION) Air SU Fir NO	craft Damage BSTANTIAL e Cre NE Pass	Fatal V 0 S 0	Injur Serious 0 0	ies Minor 0 0	None 1 1
Aircraft Information Make/Model - PIPER PA-34-200 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 4550 No. of Seats - 6	Eng Make/Model Number Engines Engine Type Rated Power	- CONTINENTAL TSIO-36(- 2 - RECIP-FUEL INJECTED		Installed/A	.ctivated ·	
Environment/Operations Information Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 290/012 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 25000 FT S Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Postavannah, GA Destination SAME AS ACC/ING ATC/Airspace CATTERED Type of Flight Potavance Type Apch/Lndg	oint C lan - IFR - NONE - TRAFFIC PATTERN FULL STOP	ON AIR Airport SARASC Runway Runway Runway Runway	Data TA-BRADENTO Ident -	22 5004/ ASPHALT	150
Personnel Information	Age - 39 Biennial Flight Review Current - YE: Months Since - 12 Aircraft Type - PA	Medical Certifica Flic S Total - 3 Make/Model- 1 -34 Instrument- Multi-Eng -	tte - VALID ht Time (H 387 .10 93		•	
E PLT WAS INITIALLY CLEARED TO LAND ON F KEEP HIS SPEED UP. HE STATED THAT AT 2 JCHDOWN, THE ACFT BEGAN PORPOISING. SUBS TAXI THE ACFT TO THE FBO.	00 FT, HIS AIRSPEED WAS IN	DICATING 89 KTS & HE E	LECTED TO	LAND LONG.	AFTER	

File No. - 1501 12/28/89 SARASOTA, FL A/C Reg. No. N831SR Time (Lcl) - 1450 EST _______

Occurrence #1 HARD LANDING Phase of Operation

LANDING

Finding(s)

1. WEATHER CONDITION - CROSSWIND

- 2. AIRSPEED EXCESSIVE PILOT IN COMMAND
- 3. FLARE IMPROPER PILOT IN COMMAND
- 4. PORPOISE INADVERTENT -
- 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: EXCESSIVE AIRSPEED FOR LANDING AND IMPROPER FLARE BY THE PILOT, WHICH RESULTED IN AN INADVERTENT PORPOISE; AND THE PILOT'S IMPROPER RECOVERY FROM A BOUNCED LANDING, WHICH RESULTED IN A HARD LANDING. A RELATED FACTOR WAS THE CROSSWIND CONDITION.

File No 1419 5/06/89 AU	JGUSTA, GA A/C Reg. No. N8693	BC Ti	me (Lcl) - 1955 EDT	:
-Basic Information Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	SUBSTANTIAL Fire	Fatal Crew 0 Pass 1	Injuries Serious Minor 1 0 0 0	None 0 0
-Aircraft Information Make/Model - PIPER PA-22-135 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1950 No. of Seats - 4	Eng Make/Model - LYCOMING 0-290- Number Engines - 1 Engine Type - RECIPROCATING-C Rated Power - 135 HP	St.	nstalled/Activated all Warning System	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEF Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 260/010 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary ING Last Departure Point SAME AS ACC/INC Destination LOCAL	Airport D DANIEL Runway Runway Runway	PORT/STRIP ata	150
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 31 Medical Cert Biennial Flight Review Current - UNK/NR Total Months Since - UNK/NR Make/Mod Aircraft Type - UNK/NR Instrume Multi-En	- 200 del- UNK/NR ent- UNK/NR	MEDICAL-WAIVERS/LIM urs) Last 24 Hrs - UN Last 30 Days- UN Last 90 Days- UN Rotorcraft - UN	K/NR K/NR K/NR

File No. - 1419 5/06/89 AUGUSTA, GA A/C Reg. No. N8693C Time (Lcl) - 1955 EDT

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

Finding(s)

1. MANEUVER - INITIATED -

- 2. AIRSPEED INADEQUATE PILOT IN COMMAND
- 3. STALL INADVERTENT 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: FAILURE OF THE PILOT TO MAINTAIN ADEQUATE AIRSPEED, WHILE MAKING A STEEP TURN AFTER TAKEOFF, WHICH RESULTED IN AN INADVERTENT STALL AND SUBSEQUENT COLLISION WITH THE TERRAIN.

File No 1475 6/26/89 ATLA	NTA, GA	A/C Reg	. No. N7375F	ŗ	Time (Lcl) ·	- 1038 EDT	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -CONTINENTAL Type of Operation -SCHEDULED, D Flight Conducted Under -14 CFR 121 Accident Occurred During -STANDING				Fatal ew 0 ss 0 her 0	Inju Serious 0 0 1	ries Minor 0 0	None 5 100 0
Aircraft Information Make/Model - BOEING 737-291 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 115500 No. of Seats - 134	Eng Make/M Number Eng Engine Tyr Rated Powe	Model - P&W o gines - 2 pe - TURBO er - 1450	JT8D DFAN 00 LBS THRUST	ELT	Installed/i Stall Warnin		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - FULL Basic Weather - VMC Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - N/A Lowest Ceiling - UNK/NR Obstructions to Vision- NONE Precipitation - UNK/NR Condition of Light - DAYLIGHT	Itinerary Last Depart NEWARK, NJ Destination SAME AS A	cure Point		Airport ON AIR Airport HARTSI Runway	Data	- UNK/NR - UNK/NR	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP ME LAND Instrument Rating(s) - AIRPLANE	Age - 52 Biennial Flight F Current Months Since Aircraft Type	Meview Me - YES - UNK/NR - UNK/NR	edical Certifi Fl Total - Make/Model- Instrument- Multi-Eng -	cate - VALII ight Time (F 14032 UNK/NR UNK/NR UNK/NR) MEDICAL-No Hours) Last 24 Last 30 Last 90 Rotorci	WAIVERS/ Hrs - 2 Days- UN Days- 22 Caft - UN	LIMIT K/NR 4 K/NR
Narrative JUST AS THE AIRCRAFT WAS BEING STOPPED ON CO THE #2 ENGINE TO CHOCK THE RIGHT MAIN GEAR. I FIVE FEET TO THE GROUND. THE EMPLOYEE SUSTAIN HIRED ON 6/9/89 (17 DAYS BEFORE THE ACDNT). I SAFETY.	AS HE WENT BEHIND T NED A BROKEN JAW AN	HE ENGINE, T D SEVERAL BE	THE JET BLAST RUISES AND LAC	(EXHAUST) HUERATIONS. HE	JRLED HIM AF E HAD BEEN	SOUT	

File No. - 1475 6/26/89 ATLANTA, GA A/C Reg. No. N7375F Time (Lcl) - 1038 EDT

Occurrence #1

PROPELLER BLAST OR JET EXHAUST/SUCTION

Phase of Operation STANDING - ENGINE(S) OPERATING

Finding(s)

1. PROCEDURES/DIRECTIVES - NOT FOLLOWED - GROUND PERSONNEL

2. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - GROUND PERSONNEL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE GROUND EMPLOYEE TO FOLLOW NORMAL SAFETY PROCEDURES. HIS LACK OF FAMILIARITY WITH THE OPERATION WAS A RELATED FACTOR.

File No 1470 7/31/89 D.	AWSON, GA	A/C Reg. No.) - 1530 EDT	
Basic Information Type Operating Certificate-AGRICULT Type of Operation -AERIAL AI Flight Conducted Under -14 CFR 1 Accident Occurred During -LANDING						None 0 0
Aircraft Information Make/Model - GRUMMAN G-164A Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 6075 No. of Seats - 1	Eng Make/N Number Eng					
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIED Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 10.0 SM Lowest Sky/Clouds - UNK/NR	Itinerary FING Last Depart DAWSON, GA Destination LOCAL ATC/Airspace SCATTERED Type of Fli		Ai	rport Proximit OFF AIRPORT/ST rport Data Runway Ident Runway Lth/Wid Runway Surface Runway Status	- N/A - N/A - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND, SE SEA HELICOPTER	Age - 59 Biennial Flight F Current Months Since Aircraft Type	Medical Review Tot - YES Tot - 8 Mak - G-164B Ins Mul	Certificate - Flight T al - 14142 e/Model- 4000 trument- UNK/N ti-Eng - 55	VALID MEDICAL ime (Hours) Last Last R Last 0 Roto	-WAIVERS/LIM 24 Hrs - UNI 30 Days- UNI 90 Days- UNI rcraft -	IT K/NR K/NR K/NR K/NR 600
Instrument Rating(s) - NONE						
Narrative THE PILOT WAS MAKING A TURN-AROUND FOR DAMAGED AS AN EMERGENCY LANDING WAS MA #3 CYLINDER HEAD HAD FAILED.						

File No. - 1470 7/31/89 DAWSON, GA

A/C Reg. No. N9755

Time (Lcl) - 1530 EDT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. ENGINE ASSEMBLY, CYLINDER - FAILURE, TOTAL

Occurrence #2 FORCED LANDING
Phase of Operation MANEUVERING - TURN TO LANDING AREA (EMERGENCY)

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

2. TERRAIN CONDITION - CROP

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE NUMBER THREE CYLINDER HEAD.

File No 1506 9/15/89 LOUIS	VILLE,GA A/C Reg. No. N4		ime (Lcl) - 10		
Basic Information Type Operating Certificate-EXTERNAL LOA Type of Operation -OTHER WORK U Flight Conducted Under -14 CFR 133 Accident Occurred During -DESCENT	Aircraft Damage DESTROYED SE Fire ON GROUND	Fatal Crew 0 Pass 0	Injuries Serious M 0 0		one 1 0
Aircraft Information Make/Model - SIKORSKY H-34J Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Model - WRIGHT R-182 Number Engines - 1 Engine Type - RECIPROCATIN Rated Power - 1525 HP	0-84D ELT S		vated - NC	-N/A
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 - 7.0 SM Lowest Sky/Clouds - CLEAR	Itinerary Last Departure Point SAME AS ACC/INC Destination LOCAL	Airport : OFF AI Airport : Runway Runway Runway Runway	Proximity RPORT/STRIP Data Ident - N/. Lth/Wid - N/. Surface - N/. Status - N/.	A A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND HELICOPTER Instrument Rating(s) - NONE	Age - 36 Medical C Biennial Flight Review Current - YES Total Months Since - 14 Make/ Aircraft Type - C-150 Instr	ertificate - VALID Flight Time (H - 3000 Model- 125 ument- 2	MEDICAL-NO WA ours) Last 24 Hr Last 30 Da Last 90 Da Rotorcraft	IVERS/LIMI s - 3 ys- 3 ys- 50 - 2300	т
Narrative THE PILOT REPORTED THAT DURING A LOGGING OPER 200 FEET. THE MOTION OCCURRED SEVERAL TIMES ATTEMPTED AN EMERGENCY LANDING, BUT THE HELIC ENGINE WAS REPORTED TO HAVE BEEN OPERATING PR WHEELING UNIT HAD FAILED.	OVER A SHORT PERIOD OF TIME. THE PIL OPTER IMPACTED IN A SWAMPY AREA AND B	OT EJECTED THE LONG URNED. IT WAS NOT	G LINE AND RECOVERED, BU		

File No 15	06 9/15/89 	LOUISVILLE, GA	A/C Reg. No. N4556D	Time (Lcl) - 1000 EDT
Occurrence #1 Phase of Operation	AIRFRAME/COMPONE HOVER	NT/SYSTEM FAILURE/MALF	UNCTION	
Finding(s) 1. ROTOR DRIVE SYS	TEM - UNDETERMINED			
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - UNCONT	ROLLED		
Occurrence #3 Phase of Operation	IN FLIGHT COLLIS DESCENT - UNCONT	ION WITH TERRAIN/WATER		

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN UNDETERMINED MALFUNCTION OF THE MAIN ROTOR DRIVE SYSTEM.

----Probable Cause----



Brief of Accident

File No 1476 12/24/89 DAN:	ELSVILLE,GA	A/C Reg. No. N5	556P 	T 	ime (Lcl) - 	1555 EST	
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	RAL AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 0 0	minor 0 0	None 1 0
Aircraft Information Make/Model - PIPER PA-24 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2160 No. of Seats - 4	Number En Engine Ty	'Model - LYCOMING 0-5 gines - 1 pe - RECIPROCATIN per - 250 HP	40 G-CARBURET	ELT S'	Installed/A tall Warnin	ctivated g System	- NO -N/ - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 290/006 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 15000 FT SCA Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Last Depar COLDWATE Destinatio ATHENS, G ATC/Airspace ATTERED Type of Fl	on A : .ight Plan - NONE		OFF AIR Airport Runway Runway Runway	Proximity RPORT/STRIP Data Ident - Lth/Wid - Surface - Status -	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 53 Biennial Flight Current Months Since Aircraft Typ	Medical C Review - YES Total - 9 Make/ e - PA-28 Instr	ertificate Flight - 671 Model- 19 ument-	e - VALID Time (He	MEDICAL-WA ours) Last 24 Last 30 Last 90	IVERS/LIM Hrs - 3 Days- UNI Days- UNI	IT K/NR K/NR
Instrument Rating(s) - AIRPLANE							,

THE PLT STATED THAT DRG FLT, HE NOTED A SLIGHT ODOR OF FUEL & OPENED THE VENTS TO ALLOW FRESH AIR IN THE CABIN. AS HE WAS ARRIVING TO LAND AT THE DESTN ARPT, THE ENG LOST POWER AT ABOUT 2200' AGL. HE SELECTED AN EMERG LANDING AREA. AFTER ASSURING CLNC OVER TREES, HE TRIED TO EXTD THE LNDG GEAR WITH THE NORMAL (ELEC) EXTN SYS, BUT WAS UNABLE. HE STARTED TO USE THE EMERG GEAR EXTN SYS, BUT THERE WAS INSUFFICIENT TIME, SO HE MADE A WHEELS UP LNDG. NO PREIMPACT PART FAILURE OR MALFUNCTION OF THE ACFT OR ENG WAS FOUND. ACCORDING TO THE PLT, HIS INSTRUMENTS SHOWED FUEL WAS STILL REMAINING WHEN THE ENG LOST POWER; HOWEVER, NO USABLE FUEL WAS FOUND IN THE ACFT AFTER THE ACDNT. THE PLT STATED THAT THE ACFT WAS "TOPPED OFF" WITH FUEL BEFORE THE FLT & HE ESTIMATED 11.7 GAL OF FUEL OR MORE WOULD BE REMAINING WHEN HE ARRIVED AT THE DESTN. THE ACFT'S FUEL CAPACITY WAS 60 GAL WITH THE TANKS FILLED TO THE TOP OF THE FILLER NECKS. RPRTDLY, THE FUEL SYS WOULD HAVE HAD ABOUT 10 GAL LESS THAN A FULL LOAD, IF THE TANKS HAD BEEN FILLED TO THE BOTTOM OF THE FILLER NECKS.

File No. - 1476 12/24/89 DANIELSVILLE, GA A/C Reg. No. N5556P Time (Lcl) - 1555 EST

Occurrence #1

LOSS OF ENGINE POWER (TOTAL) - NON-MECHANICAL

Phase of Operation APPROACH

Finding(s)

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

2. ENGINE INSTRUMENTS, FUEL QUANTITY GAGE - FALSE INDICATION

3. FLUID, FUEL - EXHAUSTION

4. FUEL SUPPLY - INADEOUATE - PILOT IN COMMAND

Occurrence #2

FORCED LANDING

Phase of Operation APPROACH

Occurrence #3 GEAR NOT EXTENDED

Phase of Operation APPROACH

Finding(s)

5. TERRAIN CONDITION - HIGH OBSTRUCTION(S)

6. GEAR EXTENSION - ATTEMPTED - PILOT IN COMMAND

7. LANDING GEAR, NORMAL RETRACTION/EXTENSION ASSEMBLY - UNDETERMINED

Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

8. WHEELS UP LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PREPARATION/PLANNING BY THE PILOT, BY NOT ASSURING AN ADEQUATE SUPPLY OF FUEL, WHICH RESULTED IN FUEL EXHAUSTION. RELATED FACTORS WERE: A FALSE FUEL QUANTITY INDICATION, TREES IN THE EMERGENCY LANDING AREA, AND FAILURE OF THE LANDING GEAR TO EXTEND (FOR AN UNKNOWN REASON).

File No 1455 4/05/89 WEST	CAMERON, GM A/C	Reg. No. N5004L	Т	ime (Lcl) -	- 1327 CDT	
Basic Information Type Operating Certificate-ON-DEMAND A Type of Operation -TEST FLIGHT Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	IR TAXI Aircr	aft Damage	Fa+al	Injur Serious	ies Minor	None 1 0
Aircraft Information Make/Model - BELL 206B Landing Gear - SKID Max Gross Wt - 3200 No. of Seats - 5						- YES/YES - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 030/025 KTS Visibility - 7.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poi SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	nt n - NONE - NONE - TRAFFIC PATTERN FORCED LANDING	Airport ON AIR Airport WEST C	Proximity PORT	266 · UNK/NR · UNK/NR · METAL/WOO	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL ME LAND HELICOPTER	Age - 50 Biennial Flight Review Current - YES Months Since - 5 Aircraft Type - 206B		ate - VALID ght Time (H 7008 4540 294 756	MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotorcr	IVERS/LIMI Hrs - 4 Days- 39 Days- 117	T , , , , , , , , , , , , , , , , , , ,
Instrument Rating(s) - AIRPLANE, HINarrative THE HELICOPTER HAD SVRL INFLT ENG DECELERATION TAS UNABLE TO REACH THE HELIPAD. HE ELECTED TO THE VAS UNABLE TO REACH THE HELIPAD. HE ELECTED TO THE SET WAVES. DRG THE LANDING, THE HELICOPTIC CONTAMINATION HAD BYPASSED FILTERS IN THE FURTHER CAP BYPASS VLV WAS FND STUCK OPERATED STREET BUTTON) WAS FND BENT, HOLDING THE SYPASS TEST BUTTON) WAS FND BENT, HOLDING THE SYPASS TEST BUTTON WAS FND BENT, HOLDING THE COMPONENT IN THE SYS. DRG TESTS, THE CLOGGED	ONS THAT MAINTENANCE EFFOR DRILLING PLATFORM). DRG T. TO LAND ON THE PLATFORM, S. ER WAS DAMAGED. A POST-ACD. EL SYS & HAD CLOGGED & COL. N IN THE BYPASS MODE. A PI E BYPASS VLV OPEN. AN OPEN. HEN CHECKED, THE ANNUNCIAT	TS DID NOT ISOLATE. HE FLT, THE ENG SURGHORT OF THE HELIPAD NT EXAM REVEALED FUI LAPSED THE ENG FUEL N (CONNECTED TO THE BYPASS VIV SHOULD IOR LIGHT OPERD ONLY	GED, THEN D, RATHER TH EL CONTAMIN NOZZLE SCR FUEL FILTE HAVE ILLUMI INTERMITTE	ECELERATED. AN ACCEPT S ATION HAD O EEN. THE AI R CAP IMPEN NATED A RES NTLY DUE TO	THE PLT EA CONDS CCURRED. RFRAME DING PECTIVE A FAULTY	

File No. - 1455 4/05/89 WEST CAMERON,GM A/C Reg. No. N5004L Time (Lcl) - 1327 CDT

Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

- 1. MAINTENANCE, INSPECTION OF AIRCRAFT INADEQUATE COMPANY MAINTENANCE PSNL
- 2. FUEL SYSTEM BINDING (MECHANICAL)
- 3. ANNUNCIATOR PANEL LIGHTS FAILURE, PARTIAL
- 4. FLUID, FUEL CONTAMINATION

Occurrence #2 FORCED LANDING

Phase of Operation DESCENT - EMERGENCY

Finding(s)

5. AUTOROTATION

Occurrence #3 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING - FLARE/TOUCHDOWN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE MAINTENANCE/INSPECTION OF THE AIRCRAFT FUEL SYSTEM BY COMPANY MAINTENANCE PERSONNEL AND FUEL CONTAMINATION, WHICH RESULTED IN A PARTIAL LOSS OF ENGINE POWER. RELATED FACTORS WERE: A BINDING (STUCK) FUEL FILTER CAP BYPASS VALVE AND PARTIAL FAILURE (INTERMITTENT OPERATION) OF THE RESPECTIVE ANNUNCIATOR LIGHT SYSTEM.

File No 1577 11/06/89 TOLE	DO,IA A/C Reg. No	o. N6449M	Time (Lcl) - 1830 CST
Type of Operation			Injuries al Serious Minor None 0 1 0 0 0 0
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Eng Make/Model - LYCOMING Number Engines - 1 Engine Type - RECIPROG Rated Power - 110 F	G 0-235-L2C ECATING-CARBURETOR	ELT Installed/Activated - YES/YES Stall Warning System - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINEN Basic Weather - VMC Wind Dir/Speed- 320/014 KTS Visibility - 15.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 1900 FT OVE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	T Destination MARSHALTOWN, IA ATC/Airspace Type of Flight Plan - NONE RCAST Type of Clearance - NONE Type Apch/Lndg - FULI	Airpo TOI Rur Rur Rur C Rur C Rur STOP	ort Proximity AIRPORT/STRIP ort Data EDO way Ident - 35 way Lth/Wid - 1873/ 100 way Surface - GRASS/TURF way Status - DRY
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT Instrument Rating(s) - NONE	Age - 29 Medic Biennial Flight Review Current - N/A T Months Since - N/A M Aircraft Type - N/A	cal Certificate - VF Flight Time Cotal - 33 Make/Model- 26 Chstrument- 1 Multi-Eng - 0	ALID MEDICAL-NO WAIVERS/LIMIT (Hours) Last 24 Hrs - 1 Last 30 Days- UNK/NR Last 90 Days- UNK/NR Rotorcraft - 0
Instrument Rating(s) - NONE			
Narrative WHILE ON A SOLO, NIGHT CROSS COUNTRY FLIGHT, THE WRONG AIRPORT. SHE TRIED TO ACTIVATE THE WAS THE RWY. SUBSEQUENTLY, THE ACFT STRUCK P 35, THEN COLLIDED WITH THE TERRAIN. THE PILO SOLO NIGHT CROSS COUNTRY FLIGHT.	RUNWAY LIGHTS WITHOUT SUCCESS, THOUSE LINES ABOUT ONE QUARTER MILE	IEN ATTEMPTED TO LAN TO THE EAST OF THE	ID ON WHAT SHE THOUGHT APPROACH END OF RWY

File No. - 1577 11/06/89 TOLEDO, IA A/C Reg. No. N6449M Time (Lcl) - 1830 CST

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

Finding(s)

- 1. LIGHT CONDITION DARK NIGHT
- 2. WEATHER CONDITION CROSSWIND
- 3. OBJECT WIRE, STATIC
- 4. AIRPORT FACILITIES, RUNWAY EDGE LIGHTS NOT OPERATING
- 5. BECAME LOST/DISORIENTED ENCOUNTERED PILOT IN COMMAND
- INADEQUATE TRAINING PILOT IN COMMAND (CFI)
- 7. LANDED AT WRONG AIRPORT ATTEMPTED PILOT IN COMMAND
- 8. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION 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 BECAME LOST/DISORIENTATED AND ATTEMPTED A LANDING AT THE WRONG AIRPORT. FACTORS RELATED TO THE ACCIDENT WERE: DARKNESS, UNFAVORABLE WIND CONDITION, AND THE STUDENT PILOT'S LACK OF EXPERIENCE IN THE TYPE OF OPERATION.

File No 1422 8/27/89 BLANC	HARD, ID	A/C Reg. No. N	1132SH	Time (Lcl) -	2204 PDT	
Basic Information Type Operating Certificate-ON-DEMAND AI Name of Carrier -HEARTFLITE Type of Operation -NON SCHED,DO Flight Conducted Under -14 CFR 135 Accident Occurred During -CRUISE	R TAXI A	ircraft Damage DESTROYED ire NONE	Fatal Crew 3 Pass 1	Injuri Serious 0 0	es Minor 0 0	None 0 0
Aircraft Information Make/Model - AEROSPATIALE AS-350D Landing Gear - SKID Max Gross Wt - 4300 No. of Seats - 6	Eng Make/Mode Number Engine Engine Type Rated Power	l - LYCOMING LT s - 1 - TURBOSHAFT - 531 HP	'S-101-600A2 EL	T Installed/Ac Stall Warning	tivated - System -	YES/NO NO
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 - 20.0 SM Lowest Sky/Clouds - 7000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	EASTPORT,ID Destination SPOKANE,WA ATC/Airspace TERED Type of Flight Type of Cleara Type Apch/Lndg	Plan - NONE nce - NONE - NONE	OFF . Airpor Runw Runw Runw Runw		N/A N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE, COMMERCIAL SE LAND HELICOPTER Instrument Rating(s) - NONE				ID MEDICAL-NO (Hours) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/L Hrs - 1 Days- UNK Days- 200 ft - UNK	IMIT /NR /NR
THE EMERG MED SVC (EMS/MEDEVAC) HELICOPTER WA WITH A GUNSHOT WOUND) WAS HANDCUFFED TO THE S POLICE ASSISTANCE DRG ARRIVAL AT THE HOSPITAL ACFT. WRECKAGE WAS FOUND OVER A 1 MI AREA WITTAIL CONE. INV SHOWED EVIDENCE OF SWASHPLATE DRCTN OF MAIN ROTOR ROTATION & CTC MARKS WERE FAILURE OF THE INNER & OUTER RACE LOCKS & SPA WERE DISCOLORED BLUE. WEAR MARKS ON THE BALL 1.23 HRS OF OPN SINCE THE LAST 100 HR INSPN.	S EN ROUTE WITH A PLT TRETCHER. DRG FLT, TH . THE PLT THEN TRANSM H EVIDENCE OF AN IN-F BRG SEIZURE. THE PITC. FND ON THE FWD EARS LLING OF THE BRG RACE BRGS INDCD SCUFFING; LUBE REQUIRED EACH 40	, 2 MED PSNL & E PLT RPRTD A P ITTED AN EXPLET LT BREAKUP & MA H CHG LINK RODS OF THE ROTATING S. LACK OF GREA 1 BALL BRG WAS 0 HRS, COMPANY	A PATIENT. THE PARENCE AND A PATIENT. THE PARENCE AND A PATIENT OF A PATIENT AND A PATIENT AND A PATIENT AND A PATIENT AND A POLICY WAS TO LUBI	ATIENT & REQUE CT WAS LOST WI WITH THE COCKP SSORS WERE BRK DISASSEMBLY R BE BRG & THE B SSEMBLY HAD AC AT 100 HR IN	STED TH THE IT & N IN THE EVEALED ALL BRGS CRUED TERVALS.	

A/C Reg. No. N132SH Time (Lc1) - 2204 PDT File No. - 1422 8/27/89 BLANCHARD, ID

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

Finding(s)

1. DISTURBANCE - INTENTIONAL - PASSENGER

2. ROTORCRAFT FLIGHT CONTROL, SWASHPLATE ASSEMBLY - OVERTEMPERATURE

3. ROTORCRAFT FLIGHT CONTROL, SWASHPLATE ASSEMBLY - SEIZED

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: OVERHEATING AND SEIZURE OF THE SWASHPLATE BEARING, WHICH RESULTED IN AN INFLIGHT BREAKUP OF THE HELICOPTER AND SUBSEQUENT IMPACT WITH THE GROUND.

File No 1521 6/25/89 KIRKL	AND, IL A/O	Reg. No. N11WR	Т	ime (Lcl) -	1205 CDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	L AVIATION) Airc: DES' Fire ON (caft Damage TROYED Cr GROUND Pa			Minor 0 0	None 1 0
Aircraft Information Make/Model - RENNINGER MUSTANG II	Eng Make/Model - Number Engines -	LYCOMING O-320-D	ELT S	Installed/A tall Warnin	ctivated - g System -	· NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Pos SAME AS ACC/INC Destination LOCAL	int an - NONE - NONE	Airport ON AIR Airport BUNGER Runway Runway Runway Runway Runway	Proximity PORT Data AIRFIELD Ident - Lth/Wid -	27 2400/ 1 GRASS/TUR	50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 51 Biennial Flight Review Current - YES Months Since - 5 Aircraft Type - MUST	Medical Certifi Fl Total - Make/Model- TANG Instrument- Multi-Eng -	.cate - VALID ight Time (H - 280 - 71 - UNK/NR - 0	MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotorcr	IVERS/LIMI Hrs - UNK Days- UNK Days- UNK aft - UNK	T /NR /NR /NR /NR
Narrative ABOUT 25 MIN AFTER LNDG FROM A PREVIOUS FLT, 1200' & TURNED ONTO A CROSSWIND LEG. AT ABOU BUT HE DID NOT HAVE SUFFICIENT ALT & SPEED. & THE ACFT CRASH LANDED. THE ACFT SLID TO A ABOUT 4 TO 5 MIN LATER, A FIRE ERUPTED, WHICH FAILURE OR MALFUNCTION WAS FND. THE ACFT HAD AVIATION FUEL & WAS MORE VULNERABLE TO VAPOR	THE PLT TOOK OFF TO PRACT T THAT TIME, THE ENG BEGA AS HE WAS COMPLETING A TO STOP ON THE RWY. THE PLT HE WAS UNABLE TO EXTINGU BEEN SVCD WITH AUTO FUEL	TICE TAKEOFFS & LND IN TO LOSE POWER. I IRN TOWARD THE RWY, SAID HE THEN TURN VISH WITH A FIRE EX	THE PLT TRIED A WING TIP (DED THE FUEL : TINGUISHER.	TO LAND ON CONTACTED T SELECTOR OF NO PREIMPA	RWY 27, HE GRND F, BUT CT PART	

File No 15	21 6/25/89	KIRKLAND, IL	A/C Reg. No. N11WR	Time (Lcl) - 1205 CDT
Occurrence #1 Phase of Operation				
Finding(s) 1. FLUID,FUEL - ST	ARVATION			
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGE	NCY		
Occurrence #3 Phase of Operation	IN FLIGHT COLLIS MANEUVERING - TU	ION WITH TERRAIN/WAT RN TO LANDING AREA (ER EMERGENCY)	
Finding(s) 2. TERRAIN CONDITI 3. CLEARANCE - M	ON - GROUND ISJUDGED - PILOT I	n command		
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL STARVATION (POSSIBLY FROM VAPOR LOCK), WHICH RESULTED IN LOSS OF ENGINE POWER, AND THE PILOT'S MISJUDGEMENT OF GRO

File No 1511 9/10/89 NEWAR		A/C Reg. No. N			Cime (Lcl)	- 1930 CDT	•
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -INSTRUCTIONA Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	L AVIATION) A	ircraft Damage SUBSTANTIAL ire NONE				ries Minor 1 0	None 0 0
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Eng Make/Mode Number Engine Engine Type	el - LYCOMING O- es - 1 - RECIPROCATI - 110 HP	-235-L2C	ELT S	Stall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 070/006 KTS Visibility - 30.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 4000 FT BROK Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	Itinerary Last Departure SAME AS ACC/ Destination	Point INC Plan - NONE nce - NONE		Airport ON AIR Airport CUSHIN	Proximity RPORT	- 36 - 2800/ - GRASS/TU	180 JRF
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 25 Biennial Flight Revi Current - Months Since - Aircraft Type -	Medical ew YES Tota 1 Make C-172RG Inst Mult	Certificate Flight al - 905 2/Model- 350 crument-	e - VALID t Time (H 5 0 67 40	MEDICAL-WA Iours) Last 24 Last 30 Last 90 Rotorci	AIVERS/LIM Hrs - 7 Days- 13 Days- 58 caft - UN	MIT 87 88 88/NR
Instrument Rating(s) - AIRPLANE Narrative THE STUDENT PILOT AND HIS INSTRUCTOR (CFI) WE THEY PERFORMED A SIMULATED ENGINE FAILURE TO AND DAMP WITH 1000 FT UNUSABLE DUE TO THE WET PREPARED THE AIRCRAFT FOR A SOFT FIELD TAKEOF; AVAILABLE RUNWAY WAS USED FOR HIS TAKEOFF. HE CLIMB RAPIDLY ENOUGH TO CLEAR POWER LINES BEY THE TAKEOFF. SUBSEQUENTLY, THE AIRCRAFT IMPACT FLAPS SELECTOR WAS IN THE FULLY RETRACTED POS	A FULL STOP LANDING A CONDITIONS. THE WIND F; HE MOVED THE FLAP REPORTED THAT THE AI OND THE DEPARTURE END TED AN EMBANKMENT AND	ING FOR THE STU T A NEARBY GRAS S WERE CALM. TH SELECTOR TO THE RCRAFT LIFTED C OF THE RUNWAY. SKIDDED TO A S	SS STRIP AT HE STUDENT HE HOLD DEGREE HOFF, BUT IT THE CFI TO HOTO ON A HI	DUSK. TH PILOT STA POSITION WOULD NO OOK THE C	E RUNWAY WA TED THAT HE I, AND ALL C T ACCELERAT ONTROLS AND	AS SOFT C OF THE CE OR O ABORTED	

File No. - 1511 9/10/89 NEWARK, IL A/C Reg. No. N4841P Time (Lcl) - 1930 CDT ______

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation TAKEOFF

Finding(s)

1. FLIGHT CONTROL, FLAP - FAILURE, PARTIAL

2. RAISING OF FLAPS - NOT ATTAINED - DUAL STUDENT

Occurrence #2 OVERRUN
Phase of Operation TAKEOFF - ABORTED

Finding(s)

3. SUPERVISION - INADEQUATE - PILOT IN COMMAND (CFI)

4. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - SOFT

5. AIRSPEED - NOT ATTAINED -

6. TERRAIN CONDITION - HIGH OBSTRUCTION(S)

7. ABORTED TAKEOFF - DELAYED - PILOT IN COMMAND(CFI)

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - ABORTED

Finding(s)

8. TERRAIN CONDITION - DIRT BANK

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE SUPERVISION BY THE FLIGHT INSTRUCTOR (CFI) AND HIS DELAY IN ABORTING THE TAKEOFF. FACTORS RELATED TO THE ACCIDENT WERE: MALFUNCTION OF THE FLAP SYSTEM, WHICH RESULTED IN AN IMPROPER FLAP SETTING FOR TAKEOFF, AND THE SOFT RUNWAY CONDITION.

File No 1530 9/29/89 GREEN	ICASTLE, IN	A/C Reg. No. N2	rs	Ti	me (Lcl) -	1901 EST	
Basic Information Type Operating Certificate-NONE (GENER! Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	AL AVIATION)	Aircraft Damage DESTROYED Fire ON GROUND	Crew Pass	Fatal 1 2	Injur Serious 0 1	Minor 0	None 0 0
Aircraft Information Make/Model - BEECH A36TC Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3650 No. of Seats - 6	Number Engin	- RECIP-FUEL IN			nstalled/Ac all Warninc		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 220/005 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 15000 FT SCAT Lowest Ceiling - 25000 FT OVER Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	Destination SAME AS ACC ATC/Airspace TERED Type of Fligh CAST Type of Clear	/INC t Plan - NONE		Airport D PUTNAM Runway	PORT/STRIP ata CITY Ident - Lth/Wid - Surface -		60
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - AIRPLANE	Age - 62 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical Ce iew YES Total 8 Make/M BE-36TC Instru Multi-	ertificate Flight - 150 Model- 100 ment- UNK Eng - UNK	- VALID Time (Ho) /NR /NR	MEDICAL-WAI urs) Last 24 Last 30 Last 90 Rotorcra	IVERS/LIM Hrs - UNI Days- UNI Days- UNI aft - UNI	IT K/NR K/NR K/NR K/NR
THE PILOT WAS MAKING A VISUAL APPROACH AT DUS WITH LOW INTENSITY LIGHTS. AS THE AIRCRAFT WA ABOUT 50' ABOVE THE GROUND. IT THEN CRASHED TWITH INJURIES FROM IMPACT & FIRE. NO PREIMPAC	S PROCEEDING IN THE O THE GROUND & BEGAN	VICINITY OF A LEFT BURNING. ONE PASS	BASE LEG ENGER EGR	, IT COLL ESSED FRO	IDED WITH T M THE AIRCE	REES	

File No. - 1530 9/29/89

GREENCASTLE, IN

A/C Req. No. N2YS

Time (Lcl) - 1901 EST

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

Finding(s)

1. LIGHT CONDITION - DUSK

- 2. VISUAL/AURAL PERCEPTION PILOT IN COMMAND
- 3. OBJECT TREE(S)
- 4. PROPER 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: FAILURE OF THE PILOT TO MAINTAIN PROPER ALTITUDE DURING A VISUAL APPROACH AT DUSK. FACTORS RELATED TO THE ACCIDENT WERE: LIGHT CONDITIONS AT DUSK, THE PILOT'S VISUAL PERCEPTION, AND THE TREES.

File No 1517 11/08/89 ANGOI	A,IN A/C Reg. No. N951	lV Time (Lcl) - 1940 EST
Basic Information		Injuries Fatal Serious Minor None Crew 0 0 0 1 Pass 0 0 0 0
Aircraft Information Make/Model - BEECH A36 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3800 No. of Seats - 6	Eng Make/Model - CONTINENTAL IC Number Engines - 1 Engine Type - RECIP-FUEL INC Rated Power - 285 HP	Stall Warning System - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 280/012 KTS		Runway Ident - 05
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 50 Medical Cer Biennial Flight Review Current - YES Total Months Since - 5 Make/Mo Aircraft Type - A36 Instrum	rtificate - VALID MEDICAL-WAIVERS/LIMIT Flight Time (Hours) - 3000
Instrument Rating(s) - AIRPLANE		
DURING ARRIVAL AT NGT, THE PLT WAS CLRD FOR A THE PLT STATED THAT HE "COMPLETED (THE) NDB A AFTER ADF REVERSAL" HE SAID HE THEN M THE NDB COURSE ABT 3.9 MI FM THE ARPT, BUT HE THE ACFT HAD DSCNDD & CRASHED IN AN OPEN FIEI THE ARPT MANAGER ESTIMATED THE CEILING AT THE FOUND.	IN NDB RWY 5 APCH. THE NDB WAS LOCATED PPROACH, WHICH FAILED AT MINIMUMS. ENTE IADE A 180 DEG REVERSAL (LEFT TURN) AND COULD NOT RECALL ANYTHING BEYOND THAT IN THAT AREA. MDA FOR THE APCH WAS	ERED CLEAR AIR ALMOST IMMEDIATELY MANEUVERED TO GET REESTABLISHED ON POINT. AN INVESTIGATION REVEALED 1540 FT. THE ARPT ELEV WAS 995 FT.

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation APPROACH

Finding(s)

- 1. LIGHT CONDITION DARK NIGHT
- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION FOG
- 4. WEATHER CONDITION DRIZZLE
- 5. WEATHER CONDITION BELOW APPROACH MINIMUMS
- 6. IFR PROCEDURE NOT FOLLOWED PILOT IN COMMAND
- 7. TERRAIN CONDITION OPEN FIELD
- 8. 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 FOLLOW IFR PROCEDURES AND MAINTAIN THE MINIMUM DESCENT ALTITUDE (MDA). FACTORS RELATED TO THE ACCIDENT WERE: DARKNESS AND ADVERSE WEATHER CONDITIONS.

File No 1438 12/28/89 Basic Information Type Operating Certificate-NONE Type of Operation -INSTR Flight Conducted Under -14 CF Accident Occurred During -TAKEO	(GENERAL AVIATION) UCTIONAL R 91	A/C Reg. No. No. No. No. No. No. No. No. No. No	Crew	Fatal	le (Lcl) - Injur: Serious 0 0	ies Minor	None
Aircraft Information Make/Model - PIPER PA-38-112 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Number Engi: Engine Type Rated Power	nes - 1 - RECIPROCATIN - 112 HP	235-L2C NG-CARBURETO	ELT In Sta DR	stalled/Ad		
Wind Dir/Speed- 160/005 KTS Visibility - 7.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 3000 N Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIG	Itinerary Last Departu: SAME AS ACC Destination LOCAL ATC/Airspace Type of Flight Type of Clea: Type Apch/Local	nt Plan - NONE	F	Runway L	RT ta dent - th/Wid -	4013/ ASPHALT	50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 33 Biennial Flight Re Current Months Since Aircraft Type	Medical (view - N/A Total - N/A Make, - N/A Instr	Certificate Flight L - 18 'Model- 18 rument-	- VALID M Time (Hou	EDICAL-NO rs) Last 24 Last 30 Last 90	WAIVERS/I Hrs - 1 Days- 4 Days- 13	LIMIT
Instrument Rating(s) - NONENarrative FTER THE STUDENT PILOT PERFORMED UNEVI HE STUDENT TO FLY SOLO. THE STUDENT TO ENTERED THE PLANE ON THE RUNWAY, AND A LOCKED UP" THE BRAKES. SUBSEQUENTLY, SEFT SIDE OF THE RWY. THE STUDENT HAD I	AXIED BACK TO THE RWY. HE APPLIED FULL THROTTLE," BUT THE ACFT COLLIDED WITH A P	STATED HE "ROLLEI THE PLANE GOT OU ILE OF PLOWED SNOW	O OUT ONTO T JT OF CONTRO V & CAME TO	HE RUNWAY L. HE CLO REST APRX	WITHOUT S	TOPPING,	·

A/C Req. No. N2605P File No. - 1438 12/28/89 GRIFFITH, IN Time (Lcl) - 0830 EST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. RUNNING TAKEOFF - INITIATED - PILOT IN COMMAND 2. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 3. ABORTED TAKEOFF - PERFORMED - PILOT IN COMMAND 4. BRAKES (NORMAL) - IMPROPER USE OF - PILOT IN COMMAND LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND ON GROUND COLLISION WITH TERRAIN/WATER Occurrence #2 Phase of Operation TAKEOFF - ABORTED 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 STUDENT PILOT TO MAINTAIN DIRECTIONAL CONTROL AND HIS IMPROPER USE OF (NORMAL) BRAKES. HIS DECISION TO MAKE A RUNNING TAKEOFF, HIS LACK OF TOTAL EXPERIENCE, AND THE SNOWBANK WERE CONTRIBUTING FACTORS.

File No 1491 7/09/89 MEDIC	INE LODGE,KS	A/C Reg. No. N	5379P	T	ime (Lcl) -	0845 CDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	L AVIATION)	Aircraft Damage DESTROYED Fire NONE	Crew Pass	Fatal 1 2	Injur Serious 0 0	ies Minor 0 0	None 0 0
Aircraft Information Make/Model - PIPER PA-24-250 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2800 No. of Seats - 4	Number Engine Ty Rated Po	ype - RECIPROCATI wer - 250 HP		S.	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- 190/012 KTS Visibility - 5.0 SM Lowest Sky/Clouds - CLEAR	Itinerary Last Deparment MEDICINI Destination LOCAL ATC/Airspace Type of Fi	rture Point E LODGE,KS on		OFF AI Airport I Runway Runway Runway	Proximity RPORT/STRIP Data Ident - Lth/Wid - Surface - Status -	N/A N/A N/A	
	Age - 33 Biennial Flight Current Months Since Aircraft Ty	Review - YES Tota e - 1 Make the - PA-24 Inst.	rument- UNK	/NR	MEDICAL-NO ours) Last 24 Last 30 Last 90 Rotorcr	Hrs - UNE Days- UNE Days- UNE	K/NR K/NR K/NR
Instrument Rating(s) - NONE Narrative WITNESS RPRTD THAT HE HEARD THE ACFT FLY OV CK ON THE EAST SIDE OF THE HOUSE. THE ACFT ER THE HOUSE AGAIN, ITS RIGHT WING HIT THE EN CRASHED ABOUT 1650 FT FROM THE HOUSE.	THEN APCHD THE HO	OUSE FROM THE EAST A	T LOW ALTIT	UDE. AS	THE ACFT WE	NT	

File No. - 1491 7/09/89 MEDICINE LODGE, KS A/C Reg. No. N5379P Time (Lcl) - 0845 CDT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation MANEUVERING

Finding(s)

- 1. BUZZING PERFORMED PILOT IN COMMAND
- 2. OBJECT RESIDENCE

3. CLEARANCE - MISJUDGED - 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 MISJUDGED CLEARANCE ABOVE A HOUSE (RESIDENCE) THAT HE WAS BUZZING AND ALLOWED THE AIRCRAFT TO COLLIDE WITH THE ATTACHED ANTENNA.

File No 1522 11/17/89	SAGE CITY,KS	A/C Reg.	No. N20428	T:	ime (Lcl) -	1930 CST	
Basic Information Type Operating Certificate-NONE (GI Type of Operation -PERSONAL Flight Conducted Under -14 CFR S Accident Occurred During -APPROACH]]1 I	Aircraft Da SUBSTANTIA Fire NONE	mage L Crew Pass	Fatal 0 0	Injur: Serious 1 1	ies Minor 0 0	None 0 0
Aircraft Information Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Eng Make Number E Engine T Rated Po	Type - RECIPR ower - 150	OCATING-CARBURE	C+	Installed/Actall Warning		
Environment/Operations Information Weather Data Wx Briefing - TV WX Method - TV/RADIO Completeness - WEATHER NOT PERTI Basic Weather - VMC Wind Dir/Speed - 360/008 KTS Visibility - 10.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 3000 FT Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DAK	Itinerary Last Depa OSAGE C OSAGE C Destinati SAME AS ATC/Airspac Type of C Type of C Type Apch	erture Point EITY,KS On ACC/INC Se	NE	Airport I OSAGE (Runway Runway Runway	RPORT/STRIP	2560/ ASPHALT	40
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 24 Biennial Flight Current Months Sinc Aircraft Ty	Med Review - YES de - 13 de - C-172	ical Certificate Flight Total - 11: Make/Model- 11: Instrument- Multi-Eng - UNI	e - VALID t Time (Ho l l 3 K/NR	MEDICAL-WAD Durs) Last 24 Last 30 Last 90 Rotorcra	UVERS/LIMI Hrs - 1 Days- 2 Days- 11 aft - UNK	T Z/NR
Instrument Rating(s) - NONENarrative E PILOT SAID THAT HE HAD JUST COMPLETED RING THE FINAL APPROACH, THE PAX, WHO V EEL. THE PLT APPLIED FULL THROTTLE, BUT E HALF MILE FROM THE APPROACH END OF TH	AS ALSO A PVT PILOT, THE ACFT COLLIDED W	SHOUTED "WATCH	THE WIRES" AND	PULLED BA	ACK ON THE O	CONTROL	

File No. - 1522 11/17/89 OSAGE CITY, KS A/C Reg. No. N20428 Time (Lcl) - 1930 CST

Cocurrence #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

Cocurrence #2 IN FLIGHT COLLISION WITH OBJECT
Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)
4. OBJECT - WIRE, STATIC

Cocurrence #3 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 PILOT MISJUDGED DISTANCE AND ALTITUDE TO THE RUNWAY WHILE ON FINAL APPROACH TO LAND. FACTORS RELATED
TO THE ACCIDENT WERE: DARK NIGHT AND STATIC WIRES.

File No 1430 11/22/89 ASHLF		Time (Lcl) - 1730 CST
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraft Damage SUBSTANTIAL Fire C: NONE P:	Injuries Fatal Serious Minor None rew 0 0 0 1 ass 0 0 0 1
Aircraft Information Make/Model - BURDETTE CUBY PA-11 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1400 No. of Seats - 2	Eng Make/Model - CONTINENTAL 0-200 Number Engines - 1 Engine Type - RECIPROCATING-CAR Rated Power - 100 HP	-A ELT Installed/Activated - NO -N/ Stall Warning System - NO BURETOR
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed 010/006 KTS Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	Itinerary Last Departure Point ASHLAND, KS Destination LOCAL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - FORCED LANDING	Airport Proximity OFF AIRPORT/STRIP Airport Data Runway Ident - N/A Runway Lth/Wid - N/A Runway Surface - N/A Runway Status - N/A
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 30 Medical Certif: Biennial Flight Review F: Current - YES Total Months Since - UNK/NR Make/Model- Aircraft Type - UNK/NR Instrument-	icate - VALID MEDICAL-NO WAIVERS/LIMIT light Time (Hours) - 148
Instrument Rating(s) - NONENarrative	O WITH ADDRESS TO A 10032 To The Time Time To The Time Time Time Time Time Time Time Tim	
THE PLT OF THE HOME-BUILT ACFT WAS RTRNG TO THE PLT OF THE HOME-BUILT ACFT WAS RTRNG TO THE ACFT OR ENGINE WAS FOUND DO THE ACFT OR ENGINE OF FUEL TO THE ACFT HAD A HISTORY OF FUEL	ON A TERRACED WHEAT FIELD SHORT OF THE ARP: URING THE INVESTIGATION. CONDITIONS WERE NO	T. NO PREIMPACT PART FAILURE OT CONDUCIVE TO CARB ICING.

File No. - 1430 11/22/89 ASHLAND, KS A/C Reg. No. N99615 Time (Lcl) - 1730 CST

CCCUrrence #1 LOSS OF ENGINE POWER
Phase of Operation CRUISE

Finding(s)

1. FUEL SYSTEM - UNDETERMINED

2. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT - PERFORMED - PILOT IN COMMAND

CCCUrrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

CCCUrrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation LANDING

Finding(s)

3. TERRAIN CONDITION - ROUGH/UNEVEN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN UNDETERMINED PROBLEM WITH THE FUEL SYSTEM, WHICH RESULTED IN A LOSS OF ENGINE POWER, AND OPERATION OF THE AIRCRAFT BY THE PILOT WITH THE KNOWN DEFICIENCY. THE UNEVEN (TERRACED) TERRAIN WAS A CONTRIBUTING FACTOR.

Basic Information Type Operating Certificate-NONE (GENE		Aircraft Dama			Ta in		
Type of Operation -CHECK FLT Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Aircraft Dama SUBSTANTIAL Fire NONE		Fatal 0 0	Serious 0 0	Minor 0 0	None 2 0
Aircraft Information Make/Model - CESSNA 550 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 13300 No. of Seats - 12	Number E	/Model — P&W JT15 ngines — 2 ype — TURBOFAN wer — 2500 L		ELT :	Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 260/010 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary NG Last Depa CINCINN Destinati CINCINN ATC/Airspac Type of F Type of C	rture Point ATI,OH on ATI,OH	ANY (VFR)	ON AIRI Airport I GREATEI Runway Runway Runway		18 9501/ 1 CONCRETE	.50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND,ME LAND	Age - 38 Biennial Flight Current Months Sinc Aircraft Ty	pe - C-550 I	al Certificate Flight otal - 950 ake/Model- 560 nstrument- ulti-Eng - 4	, 729	MEDICAL-WA Durs) Last 24 Last 30 Last 90	IVERS/LIMI Hrs - 1 Days- 12 Days- 35	т

File No. - 1502 11/30/89 COVINGTON, KY

A/C Reg. No. N171LE Time (Lcl) - 1150 EST

Occurrence #1 GEAR NOT EXTENDED

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. GEAR EXTENSION NOT PERFORMED PILOT IN COMMAND
- 2. MONITORING INADEQUATE CHECK PILOT
- 3. WHEELS UP LANDING INADVERTENT -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT-IN-COMMAND (PIC) TO EXTEND THE LANDING GEAR AND INADEQUATE MONITORING BY THE CHECK PILOT, WHICH RESULTED IN A WHEELS-UP LANDING.

File No 1508 2/11/89	YARMOUTH, MA	A/C Reg. 1	No. N38529	T	ime (Lcl) -	0740 ES	T
Basic Information Type Operating Certificate-NONE Type of Operation -PERSO Flight Conducted Under -14 CF Accident Occurred During -APPRO	(GENERAL AVIATION) NAL R 91 ACH	Aircraft Dar DESTROYED Fire NONE	nage Crew Pass Other	Fatal 0 0 1	Injur Serious 0 0	ries Minor 0 0	None 1 2 0
Aircraft Information Make/Model - PIPER PA-28-161 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2150 No. of Seats - 4							
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 240/015 KTS Visibility - 11.0 SM Lowest Sky/Clouds - 5000 1 Lowest Ceiling - 5000 1 Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIG	Itinerary Last Depa TAUNTON Destinati HYANNIS ATC/Airspac FT SCATTERED Type of F FT BROKEN Type Apch	rture Point ,MA on ,MA		Airport OFF AI Airport	Proximity RPORT/STRIP	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 27 Biennial Flight Current Months Sinc Aircraft Ty	Medi Review - YES e - 13 pe - UNK/NR	cal Certificate Flight Total - 80 Make/Model- 9 Instrument-	e — VALID Time (H	MEDICAL-NO ours) Last 24 Last 30 Last 90	WAIVERS Hrs - Ui Days- Ui Days- Ui	/LIMIT NK/NR NK/NR NK/NR
Narrative E PILOT OF THE PIPER PA-28, WAS ON A DUCED POWER WHEN THE THROTTLE GOT ST E AIRPORT, SO HE ATTEMPTED A LANDING INDING GEAR HIT A CAR, KILLING A PASS D SEIZED WITH THE THROTTLE PLATE IN SSTING OF THE BUSHING AND SHAFT REVEAL ECIFICATION OF THE CARBURETOR MANUFAL LIOR TO THE ACCIDENT.	2 MILE RIGHT BASE LEG JCK IN THE CLOSED POSIT ON A HIGHWAY. AS THE A ENGER RIDING IN THE CAR THE CLOSED POSITION. EX LED BOTH WERE MANUFACTU	TO RUNWAY 24 AT ION. THE PILOT E IRCRAFT WAS ABOU . EXAM OF THE E AM OF SHAFT SCREATED OF THE SAME	ELT THAT HE COU IT TO TOUCH DOWN IGINE REVEALED T TCHING AND GALI MATERIAL AND WE	JLD NOT M JON THE CHAT THE LING AT T CRE BELOW	AKE IT TO HIGHWAY THE THROTTLE SHHE BUSHING. THE HARDNE	SS	

File No. - 1508 2/11/89 YARMOUTH, MA A/C Req. No. N38529 Time (Lcl) - 0740 EST

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL

Finding(s)

1. FUEL SYSTEM, CARBURETOR - JAMMED

2. FUEL SYSTEM - RESTRICTED -

3. MAINTENANCE, OVERHAUL - IMPROPER - OTHER MAINTENANCE PSNL

Occurrence #2 FORCED LANDING

Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

4. OBJECT - VEHICLE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A LOSS OF ENGINE POWER AND SUBSEQUENT FORCED LANDING WHICH RESULTED FROM BINDING OF THE CARBUERATOR THROTTLE SHAFT. THE BINDING RESULTED FROM AN IMPROPER OVERHAUL OF THE CARBUERTOR APPROXIMATELY 10 FLIGHT HOURS PRIOR TO THE ACCIDENT.

File No 1494 9/08/89 BOSTO	N,MA A/C Reg. No	N203Q	Time (Lcl) - 1515 EDT	1
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -SIGHT-SEEING Flight Conducted Under -14 CFR 91 Accident Occurred During -HOVER			Injuries Serious Minor 0 0 0 0	None 1 2
Aircraft Information Make/Model - ENSTROM F28A Landing Gear - SKID Max Gross Wt - 2150 No. of Seats - 3	Eng Make/Model - LYCOMING Number Engines - 1 Engine Type - RECIP-FU Rated Power - 205 H	HIO-360-C1A ELT	Installed/Activated Stall Warning System	
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 110/004 KTS Visibility - 5.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - NONE	Airport OFF A Airport BOSTOI Runway Runway Runway Runway	N HELIPORT y Ident - N/A y Lth/Wid - N/A y Surface - N/A y Status - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, SE SEA HELICOPTER Instrument Rating(s) - AIRPLANE	Age - 46 Medica Biennial Flight Review Current - UNK/NR To Months Since - UNK/NR Ma Aircraft Type - UNK/NR Ir	al Certificate - VALII Flight Time (I etal - 6500 ke/Model- 3000 strument- 70	O MEDICAL-WAIVERS/LIM Hours) Last 24 Hrs - 3 Last 30 Days- 60 Last 90 Days- 20 Rotorcraft -	0 4000
DRG LIFT-OFF TO A HOVER AT THE BEGINNING OF A INADVERTENTLY PUSHED THE CYCLIC CONTROL WITH LEFT & REARWARD. SUBSEQUENTLY, A SKID CAUGHT WHAT DAMAGE MIGHT HAVE OCCURRED, HE ELECTED TBLADE(S) STRUCK A FENCE POST.	HIS LEG. THE PLT STATED THAT THIS ON A BARBED WIRE FENCE NEAR THE HE	CAUSED THE HELICOPTER LIPAD. SINCE THE PLT	R TO DRIFT DID NOT KNOW	

File No. - 1494 9/08/89 BOSTON,MA A/C Reg. No. N203Q Time (Lcl) - 1515 EDT

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

Finding(s)

1. CONTROL INTERFERENCE - INADVERTENT - PASSENGER
2. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH OBJECT
Phase of Operation HOVER

Finding(s)
3. OBJECT - FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILUE OF PILOT TO MAINTAIN CONTROL OF THE HELICOPTER WHEN A PASSENGER INADVERTENTLY PUSHED THE CYCLIC CONTROL. THE FENCE (NEAR THE HELIPAD) WAS CONSIDERED TO BE A FACTOR.

File No 1480 8/27/89 LEONA	ARDTOWN, MD A/C	Reg. No. N24463	Ti	me (Lcl) -	- 1800 EDT	
Type of Operation		Pass				None 1 0
Aircraft Information Make/Model - TAYLORCRAFT BC-65 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1100 No. of Seats - 2	Eng Make/Model - (Number Engines -	CONTINENTAL A-65-8F 1 RECIPROCATING-CARBURE 65 HP	ELT I	nstalled/A	ctivated -	YES/NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 7.0 SM Lowest Sky/Clouds - CLEAR	Itinerary	nt - NONE	Runway Runway Runway	ORT ata S COUNTY Ident -	UNK/NR UNK/NR	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 45 Biennial Flight Review Current - YES Months Since - 22 Aircraft Type - C-172	Medical Certificat Fligh Total - 30 Make/Model- 33 PRG Instrument- Multi-Eng -	e - VALID the Time (House) 8 3 20 0	MEDICAL-NO urs) Last 24 Last 30 Last 90	WAIVERS/I Hrs - UNK Days- 6 Days- 18	IMIT /NR
Instrument Rating(s) - NONE						
Narrative START THE ENG, THE PLT CHOCKED THE LEFT WE TER THE ENG STARTED, ITS RPM WENT ABOVE IDI FT & A RWY LIGHT BEFORE THE PLT CAUGHT THE RLIER THAT DAY & HAD IMPROPERLY SECURED THE M SETTING.	E & THE ACFT JUMPED THE CF PLANE & SHUT DOWN THE ENG.	IOCK. SUBSEQUENTLY, I HE HAD PERFORMED MA	T COLLIDED	WITH A PA	RKED	

File No. - 1480 8/27/89 LEONARDTOWN, MD A/C Reg. No. N24463 Time (Lcl) - 1800 EDT

Occurrence #1 MISCELLANEOUS/OTHER
Phase of Operation STANDING - STARTING ENGINE(S)

Finding(s)

1. THROTTLE/POWER LEVER, CABLE -

- 2. MAINTENANCE, ADJUSTMENT IMPROPER PILOT IN COMMAND
- 3. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 4. TIE DOWN NOT USED PILOT IN COMMAND
- 5. PROPER ASSISTANCE NOT OBTAINED PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH OBJECT

Phase of Operation TAXI

Finding(s)

6. OBJECT - AIRCRAFT PARKED

7. OBJECT - RUNWAY LIGHT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PLANNING/PREPARATION BY THE PILOT BY NOT ASSURING THAT THE ACFT WAS PROPERLY SECURED, OR THAT SOMEONE WAS AT THE CONTROLS WHILE HE WAS HAND PROPPING THE ENGINE. A RELATED FACTOR WAS THE PILOT'S IMPROPER ADJUSTMENT OF THE THROTTLE CABLE.

File No 1478 11/19/89 MIT	CHELLVILLE, MD A/C	Reg. No. N52491	Time	(Lcl) - 1430 EST	1
Basic Information Type Operating Certificate-NONE (GENE Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF				Injuries rious Minor 0 0 0 0	None 1 1
Aircraft Information Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Eng Make/Model - I Number Engines - Engine Type - F	LYCOMING 0-320-H2AD 1 RECIPROCATING-CARBURE	ELT Inst Stall	alled/Activated Warning System	- YES-UNK/NR - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 270/005 KTS Visibility - 10.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 25000 FT OV Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary NG Last Departure Poir SAME AS ACC/INC Destination	n - NONE - NONE	Runway Sur	-	30
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 31 Biennial Flight Review Current - YES Months Since - 0 Aircraft Type - C-182	Medical Certificat Fligh Total - 13 Make/Model- UN Instrument- UN Multi-Eng - UN	e - VALID MED t Time (Hours 0 K/NR K/NR K/NR	ICAL-NO WAIVERS/) Last 24 Hrs - 0 Last 30 Days- 3 Last 90 Days- 7 Rotorcraft - UN	LIMIT
AFTER FLYING ABOUT 1/2 HR IN THE LOCAL AREA APCH END OF THE RWY & INITIATED ANOTHER TAK ALSO, HE STATED THE ACFT LIFTED OFF AT 60 TOR NOT, THE ACFT WOULD CLEAR TREES AT THE ELOF THE WAY DOWN THE RWY). DRG THE ABORTED TO THE WAY DOWN THE RWY).	EOFF. HE STATED THAT HE APPI O 65 KTS, BUT WOULD ONLY CLI ND OF THE RWY, SO HE ELECTED AKEOFF, THE ACFT BEGAN TO PO	IED FULL POWER & FUL MB ABOUT 10 FT. HE W TO ABORT THE TAKEOF	L RPM WAS OBT AS UNSURE OF F (ABOUT 1/2	AINED. WHETHER TO 3/4	

Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - ABORTED

Finding(s)

1. ABORTED TAKEOFF - PERFORMED -

2. PORPOISE - INADVERTENT - PILOT IN COMMAND

Occurrence #2 NOSE GEAR COLLAPSED Phase of Operation TAKEOFF - ABORTED

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 ALLOWED THE AIRCRAFT TO ENTER AN INADVERTENT PORPOISE DURING AN ABORTED TAKEOFF.

File No 1495 4/09/89 GORHA	M,ME A/C Reg. No. N43561	Time (Lcl) - 1715 EDT
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		Injuries Fatal Serious Minor None Crew 0 1 0 0 Pass 0 1 0 0
Aircraft Information Make/Model - TAYLORCRAFT BC12-D Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1200 No. of Seats - 2	Number Engines - 1 Engine Type - RECIPROCATING-CAI Rated Power - 65 HP	-8 ELT Installed/Activated - YES/NO Stall Warning System - NO RBURETOR
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - UNK/NR Wind Dir/Speed- 290/017 KTS	Itinerary Last Departure Point LIMINGTON,ME Destination LOCAL	Airport Proximity OFF AIRPORT/STRIP Airport Data WEBSTER AIRSTRIP Runway Ident - N/A Runway Lth/Wid - N/A Runway Surface - N/A Runway Status - N/A
	Age - 45 Medical Certi: Biennial Flight Review Current - YES Total Months Since - 2 Make/Mode: Aircraft Type - UNK/NR Instrument Multi-Eng	ficate - VALID MEDICAL-NO WAIVERS/LIMIT Flight Time (Hours) - 420
Instrument Rating(s) - NONE Narrative THE PLT RPRTD HE FLEW TO A NEARBY AIRSTRIP TO TO LAND. HE SAID HE FLEW AN UPWIND PASS OVER ' LAND. THE LOW PASS WAS MADE IN A RIGHT WING L' PLT RPRTD THAT AS HE FLEW OVER A GRAVEL PIT NI THE YOKE FOWARD & APPLIED FULL POWER; HOWEVER NO PREIMPACT MECHANICAL PROBLEM WAS FOUND.	THE STRIP AT APRX 600 TO 700 FT AGL AS HE OW ATTITUDE WHILE USING RUDDER TO MAINTAIN EAR THE STRIP, THE ACFT ENCTRD UNFAVORABLA	WATCHED THE OTHER ACFT N DIRECTIONAL CONTROL. THE E WIND & NOSED UP. HE PUSHED

File No. - 1495 4/09/89 GORHAM, ME A/C Req. No. N43561 Time (Lcl) - 1715 EDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Phase of Operation MANEUVERING

Finding(s)

- 1. LOW PASS PERFORMED PILOT IN COMMAND
- 2. WEATHER CONDITION UNFAVORABLE WIND
- 3. AIRSPEED INADEQUATE PILOT IN COMMAND
- 4. STALL/SPIN INADVERTENT 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: FAILURE OF THE PILOT TO MAINTAIN ADEQUATE AIRSPEED WHEN HE DIVERTED HIS ATTENTION DURING A LOW PASS AND ALLOWED THE AIRCRAFT TO ENTER A STALL/SPIN. THE UNFAVORABLE WIND WAS A FACTOR.

Basic Information Type Operating Certificate-NONE (GE)	NERAL AVIATION) Aircraft Damage			Injur	ries	
Accident Occurred During -LANDING	NERAL AVIATION) Aircraft Damage SUBSTANTIAL Fire 1 NONE					
Aircraft Information Make/Model - ENSTROM 280C Landing Gear - SKID Max Gross Wt - 2350 No. of Seats - 3	Fra Maka/Madal - IVCOMING HIQ-	360 JECTED	ELT In Sta	nstalled/A all Warnin	Activated on System of	- YES/N - NO
Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 015 KTS	Itinerary Last Departure Point SAME AS ACC/INC Destination LOCAL	i	Airport Pr OFF AIR Airport Da Runway I Runway I Runway S	roximity PORT/STRIP ata Ident -	- N/A - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,SE SEA HELICOPTER	Age - 32 Medical Cer Biennial Flight Review Current - YES Total Months Since - 15 Make/Mo Aircraft Type - 182RG Instrum Multi-F	rtificate Flight - 950 odel- 350 ment- Eng -	- VALID N Time (Hou 61	ÆDICAL-NO irs) Last 24 Last 30 Last 90	WAIVERS/I Hrs - UNI Days- 20 Days- 40	LIMIT K/NR

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE NUMBER 3 INTAKE VALVE OUTER SPRING. THE WATER (RIVER) IN THE EMERGENCY LANDING AREA WAS A RELATED FACTOR.

File No 1493 9/04/89 SOUTH				T	ime (Lcl) -	1930 EDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft Dan SUBSTANTIAI Fire NONE	nage Crew Pass			ies Minor 0 0	None 1 3
Aircraft Information Make/Model - GRUMMAN AA-5B Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2400 No. of Seats - 4	Eng Make/Mo Number Engi Engine Type	odel - LYCOMIN nes - 1 e - RECIPRO	IG O-360-A4K CATING-CARBURE	ELT S TOR	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- 350/008 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departu SAME AS AG Destination LOCAL	re Point CC/INC		Airport ON AIR Airport FARR F	Proximity STRIP Data IELD	13 2000/ 1 GRASS/TUR DRY	50 F
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 20 Biennial Flight Re Current Months Since Aircraft Type	Medi eview - YES - 14 - PA-28	cal Certificat Fligh Total - 20 Make/Model- 15 Instrument-	e - VALID t Time (H 3	MEDICAL-NO ours) Last 24 Last 30 Last 90	WAIVERS/L Hrs - 2 Days- 18 Days- 28	IMIT
Instrument Rating(s) - NONE							
THE PLT RPRTD THAT DURING A LANDING, THE AIRC TRAVELING ABOUT 1/3 OF THE WAY DOWN THE RWY. DOWN THE RWY, HE SAW THAT IT "WAS NOT REACTINGOT (THE) AIRCRAFT ON THE GROUND & STEERED TO A TREE & CROSSED A ROADWAY BEFORE STOPPING.	HE STATED THAT AFTE G TO THE GO-AROUND	R THE ACFT HA	D CONTINUED AB THEREFORE, HE	OUT 2/3 O	F THE WAY) POWER,		-

File No. - 1493 9/04/89 SOUTH HARPSWELL, ME A/C Reg. No. N4554L

Time (Lcl) - 1930 EDT

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 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

3. GO-AROUND - DELAYED - PILOT IN COMMAND

- 4. ABORT DELAYED PILOT IN COMMAND
- 5. OBJECT TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A DELAY BY THE PILOT IN ABORTING A LATE GO-AROUND. FACTORS RELATED TO THE ACCIDENT WERE: THE PILOT'S IMPROPER FLARE FOR LANDING, HIS IMPROPER RECOVERY FROM THE SUBSEQUENT BOUNCED LANDING, AND TREE(S) NEAR THE RUNWAY.

File No 1526 7/14/89 PONTI	AC,MI A/C Reg. No. N2706T	Time (Lcl) - 1445 EDT
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraft Damage SUBSTANTIAL Fire Cr NONE Pa	Injuries Fatal Serious Minor None Sew 0 0 0 1 Lss 0 0 0 0
Aircraft Information Make/Model - CESSNA 335 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 7912 No. of Seats - 8		S20-EB ELT Installed/Activated - YES/NO Stall Warning System - YES
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 360/010 KTS Visibility - 7.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 6000 FT BROK Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point DETROIT, MI Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan - VFR Type of Clearance - VFR Type Apch/Lndg - STRAIGHT-IN FULL STOP	Airport Proximity ON AIRPORT Airport Data OAKLAND PONTIAC Runway Ident - 27L Runway Lth/Wid - 6250/ 150 Runway Surface - ASPHALT Runway Status - DRY
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, ME LAND	Age - 67 Medical Certificher Biennial Flight Review Flighter Current - YES Total - Months Since - 5 Make/Model-Aircraft Type - AT-6 Instrument-Multi-Eng -	cate - VALID MEDICAL-WAIVERS/LIMIT ight Time (Hours) 4000
Instrument Rating(s) - NONE Narrative THE AIRCRAFT WAS ON LANDING ROLL-OUT WHEN THE LOCKED INDICATON IN THE COCKPIT. THIS WAS THE TO CORRECT AN UNSAFE "DOWN" INDICATION. AN IN LINKAGE AND THAT THE INNER GEAR DOOR WAS NOT THERE WAS EXCESSIVE SIDE PLAY.	FIRST FLIGHT AFTER MAINTENANCE WAS PERFORM VESTIGATION REVEALED THERE WAS A LOOSE JAMB	ED ON THE LANDING GEAR ACTUATOR NUT IN ACTUATOR ADJUSTMENT

File No. - 1526 7/14/89 PONTIAC, MI A/C Reg. No. N2706T Time (Lcl) - 1445 EDT

Phase of Operation LANDING - ROLL

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Finding(s)

1. LANDING GEAR, NORMAL RETRACTION/EXTENSION ASSEMBLY - FAILURE, TOTAL

2. MAINTENANCE, ADJUSTMENT - IMPROPER - OTHER MAINTENANCE PSNL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE RIGHT MAIN LANDING GEAR EXTENSION/RETRACTION COMPONENT RESULTING FROM UNACCEPTABLE LOADS INCURRED DUE TO IMPROPER ADJUSTMENT.

File No 1524 11/20/89 PLAIN	NWELL, MI	A/C Reg. No	. N8750R	T	ime (Lcl) -	- 1300 ES	T
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION)	Aircraft Damad SUBSTANTIAL Fire NONE	ge Crew Pass	Fatal 0 0	Injur Serious 0 0	ries Minor 0 0	None 1 0
Aircraft Information Make/Model - HELIO H-391B Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2900 No. of Seats - 4							- YES-UNK/NR - NO
Environment/Operations Information Weather Data	Itinerary Last Departur DAVENPORT,I	e Point A		Airport ON AIR	Proximit y PORT		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND . Instrument Rating(s) - NONE	Age - 40 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medica riew YES To 1 Ma PA-18 Ir	al Certificate Flight otal - 179 ake/Model- 17 nstrument-				
THE PILOT STATED THAT DURING TOUCHDOWN, HE LOTHE LEFT SIDE OF THE RUNWAY. THE AIRCRAFT'S I A DITCH. THE AIRCRAFT CAME TO A STOP ABOUT 20 THE AIRCRAFT REVEALED THAT THE CROSS-WIND LANGEAR LOCK PIN FAILED TO ENGAGE AND THE LEFT MUTILE THE RIGHT MAIN GEAR REMAINED LOCKED. THE SHOULD HAVE PERFORMED A MORE THOROUGH PRE-PURIN THIS MAKE AND MODEL OF AIRCRAFT. HE HAD REDESIGN AND CHARACTERISTICS.	EFT MAIN LANDING GEA 00 FEET FROM THE EDGE IDING GEAR LOCK SYSTE IAIN GEAR WAS FREE TO IE PILOT HAD RECENTLY ICHASE INSPECTION. HE	OL OF THE AIROR COLLAPSED WHO OF THE RUNWAY MWAS IMPROPER "CASTER" DURING PURCHASED THE HAD 175 HOURS	CRAFT AND IT : HEN IT RAN THE (. A POST-ACC: RLY RIGGED. TE HIG TOUCHDOWN E AIRCRAFT. HE E TOTAL FLIGHT	ROUGH SOF IDENT EXA HE LEFT M AND ON T E STATED I TIME, W	T TERRAIN I MINATION OF AIN LANDING HE LANDING THAT HE ITH 17 HOUR	ROLL,	

File No. - 1524 11/20/89 PLAINWELL, MI A/C Reg. No. N8750R Time (Lcl) - 1300 EST Occurrence #1 AIRFRAME/COMPONENT/SYSTEM Phase of Operation LANDING - FLARE/TOUCHDOWN AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Finding(s) 1. LANDING GEAR, GEAR LOCKING MECHANISM - IMPROPER 2. MAINTENANCE, ADJUSTMENT - IMPROPER - OTHER MAINTENANCE PSNL Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 3. WEATHER CONDITION - CROSSWIND 4. WEATHER CONDITION - GUSTS 5. DIRECTIONAL CONTROL - NOT POSSIBLE -6. GROUND LOOP/SWERVE - UNCONTROLLED -Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 7. TERRAIN CONDITION - DITCH 8. TERRAIN CONDITION - SOFT Occurrence #4 MAIN GEAR COLLAPSED Phase of Operation LANDING Finding(s) 9. LANDING GEAR, MAIN GEAR - OVERLOAD ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE CROSSWIND LANDING GEAR SYSTEM TO ENGAGE ON THE LEFT MAIN GEAR DUE TO IMPROPER RIGGING ADJUSTMENT BY MAINTENANCE PERSONNEL. FACTORS RELATED TO THE ACCIDENT WERE: UNFAVORABLE WIND CONDITIONS (GUSTS AND QUARTERING CROSSWIND) AND SOFT TERRAIN IN THE DITCH.

File No 1492 8/29/89 MOOSE	E LAKE, MN	A/C Reg.	No. N2841P	T	ime (Lcl) -	- 1945 CDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -CRUISE	AL AVIATION)	Aircraft Da DESTROYED Fire NONE	amage Cr Pa	Fatal ew 2 ss 0	Inju: Serious 0 0	ries Minor 0 0	None 0 0
Aircraft Information Make/Model - PIPER PA-20 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2000 No. of Seats - 4							- NO -N/A - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Depar MOOSE LA Destinatio	ture Point KE,MN n		Airport OFF AI Airport	Proximity RPORT/STRIE	?	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 44 Biennial Flight Current Months Since Aircraft Typ	Med Review - UNK/NR - UNK/NR e - UNK/NR	dical Certific Fl: Total - Make/Model- Instrument- Multi-Eng -	cate - VALID ight Time (H 246 218 UNK/NR UNK/NR	MEDICAL-NO ours) Last 24 Last 30 Last 90 Rotorc	O WAIVERS/: Hrs - UNI Days- UNI Days- UNI caft - UNI	LIMIT K/NR K/NR K/NR K/NR
Instrument Rating(s) - NONE							
THE ACFT (PIPER PA-22, CONVERTED TO A PA-20, OWNER/PLT (CONSIDERED AS PIC ON THIS FLT). DE EXAM OF THE WRECKAGE REVEALED THE FWD LIFT ST OCCURRED AT THE LOWER PART OF THE LIFT STRUT INDCD ALL APPLICABLE AIRWORTHINESS DIRECTIVES VISUALLY INSPD AT THE ANNUAL INSPN. THE ACFT STRUT FOR EVIDENCE OF CORROSION AT 5 YR INTER NOTED IN ALL LIFT STRUTS, BUT POLYMERIZED LIN PERFORATED THE RGT FWD LIFT STRUT PRIOR TO IT	RG FLT, THE RGT WI CRUT FOR THE RGT W NEAR THE FUSELAGE (AD'S) WERE COMP. LOGBOOK SHOWED TH. VVALS) HAD BEEN COL ISEED OIL WAS FOUN.	NG FOLDED BACKING HAD FAILED ATTACHMENT POLICE WITH AS CAT AD 77-03-08 MPLIED WITH IND IN THE RGT &	COVER THE FUS O IN AN AREA O DINT. AN EXAM OF 7/21/89 & S B (REQUIRING N JULY 1988. S LEFT REAR S	SELAGE & THE DF SEVERE CO OF THE ANNU THAT THE LIF MECHANICAL T THE AROMA OF FRUTS. INTER	ACFT CRASH RROSION. TH AL INSPN CH T STRUTS WE ESTING OF T LINSEED OF NAL CORROSI	HED. AN HE FAILURE HECKLIST ERE THE LIFT IL WAS	

File No. - 1492 8/29/89 MOOSE LAKE, MN A/C Reg. No. N2841P Time (Lcl) - 1945 CDT

Occurrence #1 . AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation CRUISE

Finding(s)

1. WING, BRACING STRUT - CORRODED

- 2. MAINTENANCE, INSPECTION OF AIRCRAFT INADEQUATE OTHER MAINTENANCE PSNL
- PROCEDURE INADEQUATE MANUFACTURER
- 4. INADEQUATE SURVEILLANCE OF OPERATION - FAA (ORGANIZATION)
- 5. WING, BRACING STRUT FAILURE, TOTAL
- 6. WING OVERLOAD

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: SEVERE CORROSION OF THE LOWER FORWARD LIFT STRUT FOR THE RIGHT WING, INADEQUATE INSPECTION OF THE LIFT STRUT BY MAINTENANCE PERSONNEL, AND SUBSEQUENT FAILURE OF THE LIFT STRUT, WHICH RESULTED IN AN OVERLOAD FAILURE (FOLDING BACK) OF THE WING. RELATED FACTORS WERE: INADEQUATE INSPECTION PROCEDURES PROVIDED BY THE MANUFACTURER & INADEQUATE SURVEILLANCE BY THE FAA.

File No 1523 10/22/89 OGIL	/IE,MN A/C Reg. No. N	3961н	Time (Lcl) - 1327 CST
Type Operation Type of Operation Flight Conducted Under -14 CFR 133 Accident Occurred During -LANDING	AD Aircraft Damage SUBSTANTIAL JSE Fire NONE		
Aircraft Information Make/Model - HUGHES 369HS Landing Gear - SKID Max Gross Wt - 2550 No. of Seats - 5			ELT Installed/Activated - YES/NO Stall Warning System - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 180 Visibility - 10.0 SM	Itinerary Last Departure Point BRAINERD,MN Destination LOCAL	Airp OF Airp Ru Ru Ru Ru	ort Proximity F AIRPORT/STRIP ort Data nway Ident - N/A nway Lth/Wid - N/A nway Surface - N/A nway Status - N/A
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND HELICOPTER Instrument Rating(s) - NONE	Aircraft Type - 58T Inst:	Flight Tim l - 3440 /Model- 175 rument- 343	ALID MEDICAL-WAIVERS/LIMIT le (Hours) Last 24 Hrs - 2 Last 30 Days- 25 Last 90 Days- 25 Rotorcraft - 3175
Narrative THE PILOT SAID THAT AFTER DROPPING HIS SLING INGINE RPM. THE ENGINE OUT LIGHT ILLUMINATED IN A BURNED OUT SWAMPY AREA. AFTER TOUCHDOWN, IALFUNCTION OF THE ENGINE OR SYSTEMS WAS FOUN	FOLLOWED BY THE LOW RPM WARNING AUDIO THE AIRCRAFT ROLLED OVER & WAS DAMAGE	O. AN EMERGENCY GED. NO PRE-ACC	AUTOROATION WAS MADE IDENT PART FAILURE OR

File No. - 1523 10/22/89 OGILVIE,MN A/C Reg. No. N3961H Time (Lcl) - 1327 CST

Occurrence #1 LOSS OF ENGINE POWER Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY

Finding(s)

2. AUTOROTATION

OCCUrrence #3 ROLL OVER LANDING - FLARE/TOUCHDOWN

Finding(s)

3. TERRAIN CONDITION - NONE SUITABLE

4. TERRAIN CONDITION - SOFT

5. TERRAIN CONDITION - WET

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNDETERMINED REASON. FACTORS RELATED TO THE ACCIDENT WERE: THE UNSUITABLE TERRAIN CONDITIONS IN THE EMERGENCY LANDING AREA.

File No 1578 11/02/89 SAINT	PAUL, MN	A/C Reg. No.	N3174S	Tin	ne (Lcl) -	0436 CST	
Basic Information Type Operating Certificate-ON-DEMAND AI Name of Carrier -AIR METHODS, Type of Operation -NON SCHED, DO Flight Conducted Under -14 CFR 135 Accident Occurred During -LANDING				Fatal 0 0	Injuri Serious 0 0	ies Minor 0 0	None 1 2
Aircraft Information Make/Model - BELL 206L-3 Landing Gear - SKID Max Gross Wt - 4150 No. of Seats - 4	Eng Make/Mc Number Engi Engine Type Rated Power	odel - ALLISON 25 nes - 1 - TURBOSHAFT	50-C30B		nstalled/Ac		
Environment/Operations Information Weather Data Wx Briefing - COMMERCIAL WX SERVICE Method - TV/RADIO Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 300/004 KTS Visibility - 4.000 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 1100 FT OVER Obstructions to Vision- NONE Precipitation - SNOW Condition of Light - NIGHT(DARK)	Itinerary Last Departu MINNEAPOLI Destination SAME AS AC ATC/Airspace Type of Flig CAST Type of Cleat Type Apch/Lr	re Point	IY (VFR)	Airport Pr ON AIRPO Airport Da HOLMAN F Runway I Runway S Runway S	RT ita	27 200/ ASPHALT DRY	300
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL, ATP, CFI SE LAND, ME LAND, SE SEA HELICOPTER Instrument Rating(s) - AIRPLANE, HE Narrative DRG AN EMERGENCY MEDICAL SVC (EMS/MEDEVAC) FL' PATIENT, HE ESTIMATED 12 MIN OF FUEL WAS REMA TO RETURN WITHOUT REFUELING. WHILE ARRIVING AN	Age - 40 Biennial Flight Re Current Months Since Aircraft Type LICOPTER T, THE PLT ENCTRD SINING. SINCE THE FI	TRONGER HEADWIND T TO HIS HOME BA A FUEL BOOST PUM	OS THAN EXPECT ASE WOULD TAKE	TED. AFTER E ABOUT 6 MINATED. T	DELIVERIN MIN, HE EI	IG A LECTED	LIMIT 4063
EXPEDITED HIS APCH, BUT AT ABOUT 50' AGL, A 21 EXHAUSTION. SUBSEQUENTLY, THE HELICOPTER WAS 1					FROM FUEL		

Time (Lcl) - 0436 CST

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND

2. FLUID, FUEL - EXHAUSTION

3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND

Occurrence #2 FORCED LANDING

Phase of Operation DESCENT - EMERGENCY

Finding(s)

4. AUTOROTATION

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

5. LIGHT CONDITION - DARK NIGHT

----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 DUE TO AN INADEQUATE SUPPLY OF FUEL. DARKNESS WAS A RELATED FACTOR.

File No 1429 11/22/89 RICH	MOND, MN	A/C Reg. No. N8	074R	Т:	ime (Lcl)	- 1750 CST	
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION) Ai S Fi N	rcraft Damage UBSTANTIAL re ONE	Crew Pass	Fatal 0 0	Inju Serious 0 0	uries Minor 1 0	
Aircraft Information Make/Model - BEECH A24R Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2750 No. of Seats - 4	Fna Mako/Modol	- IVCOMING TO-	360710	י חידים	boiletan	/Activated	_ vrc/vrc
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 330/004 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)					Proximity RPORT/STRI	- N/A · - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 21 Biennial Flight Revie Current - Y Months Since - 1 Aircraft Type - U	Medical Ce w ES Total Make/N NK/NR Instru Multi-	ertificate Flight - 110 Model- 7 ument- -Eng -	e - VALID Time (Ho	MEDICAL-Vours) Last 2 Last 3 Last 9	WAIVERS/LIM 24 Hrs - 7 30 Days- UN 90 Days- UN	IIT IK/NR IK/NR
Instrument Rating(s) - NONE							
WHEN THE X-COUNTRY BEGAN, THE VACUUM SYS & COUNTRY BEGAN, THE VACUUM SYS & COUNTRY BEGAN, THE VACUUM SYS & COUNTRY PLANT THE ACFT LGTS WERE OPERO ACFT HAD BEEN FULLY SVCD WITH FUEL). AT ABT SEXTN SYS & FLAPS WOULD NOT OPERATE. ABOUT 15 MANUALLY EXTENDED THE LNDG GEAR, USING HIS FISELECTOR & TRIED TO RESTART THE ENG. BUT WAS NIGHT. DRG AN INVESTIGATION, THE FUEL SELECTOR USABLE FUEL. THE PLT HAD ACCUMULATED ABT 7 HE	FOR THE RTRN FLT, BUT SUNSET ON THE RTRN FLT, MIN LATER, AS THE ACFT LASHLIGHT TO MONITOR THUNABLE. SUBSEQUENTLY, OR WAS FOUND POSITIONED	HE NOTED THE FU THE ELECTRICAL WAS NEARING ITS E AIRSPEED. THE A CRASH LNDG WAS TO AN EMPTY TAN	JEL GAUGES SYS BCM I DESTN, T PLT STATE MADE AT NK & THE C	INDCD ENIOD ENIOD & THE CHE ENG LOUTHAT HE TOP CONTHER TANK	MPTY (ALTHE E NORMAL I OST POWER E SWITCHEL OF A RIVER C STILL CO	OUGH THE INDG GEAR E THE PLT THE FUEL R BANK AT	

File No. - 1429 11/22/89 RICHMOND, MN A/C Reg. No. N8074R Time (Lcl) -1750 CST Occurrence #1 LOSS OF ENGINE POWER (TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. ENGINE INSTRUMENTS, FUEL QUANTITY GAGE - INOPERATIVE 2. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT - PERFORMED - PILOT IN COMMAND 3. LIGHT CONDITION - DARK NIGHT 4. ELECTRICAL SYSTEM - INOPERATIVE 5. FLUID, FUEL - STARVATION 6. FUEL TANK SELECTOR POSITION - IMPROPER USE OF - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 7. EMERGENCY PROCEDURE - IMPROPER - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER LANDING Finding(s) 8. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THE FUEL TANK SELECTOR BY THE PILOT AND HIS IMPROPER USE OF EMERGENCY PROCEDURES, WHICH RESULTED IN FUEL STARVATION AFTER A FUEL TANK HAD EMPTIED. CONTRIBUTING FACTORS WERE: INOPERATIVE FUEL QUANTITY GAUGES, PILOT'S OPERATION WITH KNOWN DEFICIENCIES IN THE AIRCRAFT, DARK NIGHT, TOTAL LOSS OF ELECTRICAL POWER, AND LACK OF SUITABLE TERRAIN FOR A FORCED LANDING.

File No 1510 12/13/89 CAPE 0	GIRARDEAU, MO A/C Reg	. No. N525GT	Time (Lcl)	- 1230 CST
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AVIATION) Aircraft SUBSTANT	Damage TAL	Ing Fatal Serious 0 0 0 0	juries s Minor None 0 1 0 1
Aircraft Information Make/Model - BEECH 80 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 8800 No. of Seats - 6	Eng Make/Model - LYCO Number Engines - 2 Engine Type - RECI Rated Power - 3		Stall Warr	d/Activated - YES/NO ning 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- 190/012 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 5000 FT SCATT Lowest Ceiling - 12000 FT BROKE Obstructions to Vision- NONE Precipitation - NONE	Itinerary Last Departure Point ATLANTA, GA Destination SAME AS ACC/INC ATC/Airspace ERED Type of Flight Plan - Type of Clearance - Type Apch/Lndg -	NONE NONE FULL STOP	Airport Proximity ON AIRPORT Airport Data CAPE GIRARDEAU Runway Ident Runway Ith/Wid Runway Surface Runway Status	- 20 - 3996/ 100 - ASPHALT - DRY
Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE ME LAND, SE LAND Instrument Rating(s) - AIRPLANE	Age - 58 M Biennial Flight Review Current - YES Months Since - 16 Aircraft Type - UNK/NR	edical Certificate Flight Total - 350 Make/Model- UNE Instrument- 2 Multi-Eng - 3	e - VALID MEDICAL- Time (Hours) 00 Last K/NR Last 2000 Last Rotor	-WAIVERS/LIMIT 24 Hrs - 2 30 Days- 8 90 Days- 20 ccraft - UNK/NR
Instrument Rating(s) - AIRPLANENarrative THE PILOT SAID THAT WHEN HE DEPARTED ON A PERS HE CONTINUED HIS TRIP. AFTER ARRIVING AT HIS D LOWER THE GEAR BY EMERGENCY PROCEDURES. LOW PA GEAR APPEARED NOT TO BE IN POSITION. A LANDING ACCIDENT INVESTIGATION REVEALED THE GEAR MOTOR TO A MISPLACED CRANK HANDLE.	ONAL CROSS COUNTRY TRIP, THE ESTINATION, HE WAS UNABLE TO SSES PAST THE TOWER CONFIRME. WAS MADE. DURING THE ROLL-O	LANDING GEAR FAII GET A SAFE GEAR I D ALL THREE WHEELS UT, ALL THREE GEAR	LED TO RETRACT CON INDICATION AND WAS S WERE DOWN, BUT T R LEGS COLLAPSED.	PLETELY. S UNABLE TO THE NOSE A POST-

File No. - 1510 12/13/89 CAPE GIRARDEAU,MO A/C Reg. No. N525GT Time (Lcl) - 1230 CST

Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. ELECTRICAL SYSTEM, ELECTRIC MOTOR - FAILURE, TOTAL

2. LANDING GEAR, NORMAL RETRACTION/EXTENSION ASSEMBLY - INOPERATIVE

3. LANDING GEAR, EMERGENCY EXTENSION ASSEMBLY - INOPERATIVE

Occurrence #2 COMPLETE GEAR COLLAPSED

Phase of Operation LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN INOPERATIVE LANDING GEAR EXTENSION SYSTEM DUE TO FAILURE OF AN ELECTRIC MOTOR AND A MISPLACED EMERGENCY CRANK HANDLE.

File No 1435 6/04/89 GULFPORT,MS	A/C Reg.	No. N9700Q	T	Time (Lcl) - 1043 CDT		
Basic Information Type Operating Certificate-NONE (GENERAL AVIATION) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Aircraft Da SUBSTANTIA Fire NONE		Fatal 0 0	Injur Serious 0 0		None 1 2
Aircraft Information	e/Model - LYCOMI Engines - 1	NG IO-360-A1B	ELT S	Installed/Æ tall Warnir	activated -	- YES
Environment/Operations Information Weather Data Itinerary Wx Briefing - UNK/NR Last Dep Method - UNK/NR PENSAC Completeness - UNK/NR Destinat Basic Weather - VMC BATON Wind Dir/Speed- 160/008 KTS Visibility - 10.0 SM ATC/Airspa Lowest Sky/Clouds - 3000 FT SCATTERED Type of Lowest Ceiling - 25000 FT BROKEN Type of Obstructions to Vision- NONE Type Apc Precipitation - NONE Condition of Light - DAYLIGHT	arture Point OLA,FL ion ROUGE,LA		Airport OFF AI Airport Runway Runway Runway	Proximity RPORT/STRIE	· N/A · N/A · N/A	
Personnel Information Pilot-In-Command Age - 26 Certificate(s)/Rating(s) Biennial Fligh COMMERCIAL Current SE LAND Months Sin Aircraft T Instrument Rating(s) - AIRPLANE		ical Certifica Fligi Total - 4. Make/Model- 3. Instrument- Multi-Eng -	te - VALID ht Time (H 51 1 111 5	MEDICAL-NC ours) Last 24 Last 30 Last 90	WAIVERS/I Hrs - 1 Days- 25 Days- 57	JMIT
Narrative WHILE CRUISING IN VFR CONDS ON AN IFR FLT PLAN, THE ENG FAIL MAKING AN APCH TO LAND, THE ACFT COLLIDED WITH A POWER LINE ROD ASSEMBLY HAD FAILED & THE #2 CYLINDER HAD SUBSEQUENTLY S PREVIOUSLY BEEN INVOLVED IN A SUDDEN ENG STOPPAGE AFTER THE AFTER ABOUT ANOTHER 15 HRS OF OPN, THE NOSE GEAR COLLAPSED A THE CRANKSHAFT FLANGE WAS MADE. ACCORDING TO THE ENG MANUFAC NOT CONFORM TO LYCOMING SVC BULLETING #439, DATED 2/17/79. T. THE LAST ENG OVERHAUL (FOLLOWING THE 1ST GEAR COLLAPSE).	ED & THE PLT ELE & A TREE. AN EXA EPARATED. ACCORD NOSE GEAR HAD CO GAIN. SUBSEQUENT TURER, THE INSTA	M OF THE ENG RIING TO THE ACF LLAPSED. THE EILY, A DIE PENE LLED CONNECTING	EVEALED THI I OWNER, TI NG WAS THEI IRANT CHECI G RODS & BI	E #2 CONNEC HE ACFT HAD N OVERHAULE K & RUNOUT EARINGS DID	D. OF	

File No. - 1435 6/04/89 GULFPORT, MS A/C Reg. No. N9700Q Time (Lcl) - 1043 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation CRUISE - NORMAL Finding(s) 1. ENGINE ASSEMBLY, CONNECTING ROD - FAILURE, TOTAL 2. MAINTENANCE - INADEQUATE -Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 3. OBJECT - WIRE, TRANSMISSION 4. OBJECT - TREE(S) 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: FAILURE OF A #2 CONNECTING ROD ASSEMBLY, WHICH RESULTED IN SEPARATION OF THE #2 CYLINDER AND SUBSEQUENT LOSS OF ENGINE POWER. CONTRIBUTING FACTORS WERE: INADEQUATE MAINTENANCE, THE TRANSMISSION (POWER) LINE, AND TREES.

File No	1427	7/02/89	HOLLANDALE,	MS A/C F	eg. No. N	13775J	Time (Lcl) $-$ 1700 CDT			T	
Basic Informa Type Operat Type of Ope Flight Cond Accident Oc	ing Certifi ration ucted Under	-14 CFR	137	AFT Aircraf SUBSTA Fire NONE	t Damage NTIAL	Crew Pass	Fatal 0 0	Inju Serious 0 0	ries Minor 0 0	None 1 0	
Aircraft Info Make/Model Landing Gea Max Gross W No. of Seat	- CESSNA r - TAILWH t - 2500	T188C EEL-ALL FIX	ED	Eng Make/Model - CC Number Engines - 1 Engine Type - RE Rated Power -	NTINENTAL CIP-FUEL 310 HP	TSIO-520			Activated - ng System -		
Completen Basic Weath Wind Dir/ Visibilit Lowest Sk Lowest Ce Obstructi Precipita	- NO R - N/A ess - N/A er - VMC Speed- 110/ y - v/Clouds -	ECORD OF BR 007 KTS 30.0 SM 3500 F' 15000 F' on- NONE - NONE	ItEFING AT T SCATTERED T BROKEN	tinerary Last Departure Point HOLLENDALE,MS Destination LOCAL TC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- none	LANDING	OFF AI Airport Runway Runway Runway	Proximity RPORT/STRI Data Ident Lth/Wid Surface Status	- N/A - N/A - N/A		
Personnel Inf Pilot-In-Com Certificat COMMERC SE LAND	mand e(s)/Rating IAL		Age - Bienni Cu M Ai	33 ial Flight Review urrent - YES onths Since - 7 ircraft Type - C-182	Medical Tota Make Inst	Certificate Flight 1 - 27 /Model- 150 rument-	e - VALID t Time (H 42 00 10	MEDICAL-W ours) Last 2 Last 3 Last 9	AIVERS/LIMI 4 Hrs - 5 0 Days- 75 0 Days- 125	 T	
Instrum	ent Rating(s) - NONE									
E ACFT IN A RIC	O THE ARPT A E PADDY AND E, WHICH RE	IT NOSED O' SULTED IN D	VER. AN EXAM AMAGE TO THE	REDUCTION OF ENG POW OF THE ENG REVEALED TURBOCHARGER. THE PL	THAT THE	TURBOCHARGE	ER IMPELL	ER RETAINI	NG		

File No. - 1427 7/02/89 HOLLANDALE,MS A/C Reg. No. N3775J Time (Lcl) - 1700 CDT

Occurrence #1 LOSS OF ENGINE POWER
Phase of Operation CRUISE

Finding(s)

1. EXHAUST SYSTEM,TURBOCHARGER - FAILURE,TOTAL
2. MAINTENANCE,INSTALLATION - IMPROPER - OTHER MAINTENANCE PSNL

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 NOSE OVER
Phase of Operation LANDING

Finding(s)

3. TERRAIN CONDITION - WET
4. TERRAIN CONDITION - SOFT

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE TURBOCHARGER DUE TO AN IMPROPERLY INSTALLED RETAINING NUT. THE SOFT/WET TERRAIN WAS A CONTRIBUTING FACTOR.

----Probable Cause----

File No 1447 8/13/89 JANIO	E,MS A/C Re	g. No. N1976Q	Ti	me (Lcl) -	2126 CDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		Damage ED Crew Pass	Fatal 1 1	Injur: Serious 0 0	ies Minor 0 0	None 0 0
Aircraft Information Make/Model - CESSNA 177RG Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2800 No. of Seats - 4	Eng Make/Model - LYC Number Engines - 1 Engine Type - REC Rated Power -	OMING IO-360-A1B6D IP-FUEL INJECTED 200 HP	ELT I St	nstalled/Ao all Warning	ctivated o	- YES/NO - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 6.0 SM Lowest Sky/Clouds - 15000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure Point HATTIESBURG,MS Destination GULFPORT MS		Airport P OFF AIR	roximity PORT/STRIP ata		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 58 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - C-177RG	Medical Certificate Flight Total - 120 Make/Model- UNI Instrument- UNI Multi-Eng - UNI	e - VALID t Time (Ho 00 K/NR K/NR K/NR	MEDICAL-WAI urs) Last 24 Last 30 Last 90 Rotorcra	EVERS/LIMI Hrs - 2 Days- UNE Days- UNE Aft - UNE	IT K/NR K/NR K/NR
Narrative E FLT WAS OPERATING IN AN AREA OF REDUCED V DAR DATA INDICATES THE NON-INSTRUMENT RATED E 15 MINUTE FLT. AS THE PLT RECEIVED THE CU RPLANE WAS OBSERVED TO MAKE A DESCENDING RI NCERNS REGARDING THE HAZY CONDITIONS TO SEV PERIENCE COULD NOT BE DETERMINED FROM RECOR E ACCIDENT SITE. PLTS FLYING IN THE VICINIT LES WITH FOG.	PLT HAD DIFFICULTY MAINTAIN RRENT RUNWAY AND ALTIMETER S GHT TURN TO IMPACT WITH TREE ERAL PEOPLE PRIOR TO THE FLI DS. WEATHER INFORMATION LIST	ING A CONSTANT HEAD ETTING AT THE DEST S AND THE TERRAIN. . THE PLT'S NIGHT (ED ABOVE WAS AT A I	DING AND AIDINATION AIDINATION AIDINATION AIDINATION 30 LOCATION 3	LTITUDE DUF RPORT, THE AD VOICED ND TOTAL FI 6 MILES FRO	RING LT DM	

File No. - 1447 8/13/89 JANICE, MS A/C Req. No. N1976Q Time (Lcl) - 2126 CDT LOSS OF CONTROL - IN FLIGHT Occurrence #1 Phase of Operation CRUISE - NORMAL Finding(s) 1. LIGHT CONDITION - NIGHT 2. WEATHER CONDITION - HAZE/SMOKE 3. VFR FLIGHT INTO IMC - INADVERTENT - PILOT IN COMMAND 4. SELF-INDUCED PRESSURE - PILOT IN COMMAND LACK OF TOTAL INSTRUMENT TIME - PILOT IN COMMAND 6. SPIRAL - INADVERTENT - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - UNCONTROLLED Finding(s) 7. OBJECT - TREE(S) Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 8. TERRAIN CONDITION - GROUND ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE IN FLIGHT LOSS OF CONTROL BY THE NON INSTRUMENT RATED PILOT AFTER ENCOUNTERING INSTRUMENT METEOROLOGICAL CONDITIONS RESULTING IN THE AIRPLANE SPIRALING INTO A WOODED AREA.

File No 1576 8/14/89	QUITMAN, MS	A/C Reg. No.	N9085T	Time (Lcl) -		
-Basic Information Type Operating Certificate-AGR	ICULTURAL AIRCRAFT	Aircraft Damag				
Type of Operation -AER Flight Conducted Under -14 Accident Occurred During -MAN						
-Aircraft Information Make/Model - CONTINENTAL CO Landing Gear - SKID Max Gross Wt - 2850 No. of Seats - 1	PTER TOMCAT MK6C Eng Make	e/Model - LYCOMING	VO-435-A1F F.T.	T Installed/A	ctivated ·	- NO -N/
Environment/Operations Informati Weather Data Wx Briefing - NO RECORD OF Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 070/006 KTS Visibility - 6.0 SM Lowest Sky/Clouds - 450 Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYL	ON Itinerary BRIEFING Last Depa SAME AS Destinat: LOCAL ATC/Airspac O FT SCATTERED Type of O Type Apol	arture Point S ACC/INC ion ce Flight Plan - NONE Clearance - NONE n/Lndg - NONE	Airpor OFF Airpor Runw Runw Runw	t Proximity AIRPORT/STRIP	· N/A · N/A · N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND HELICOPTER	Age - 44 Biennial Flight Current Months Sind Aircraft Ty	Medica Review - YES To ce - 8 Ma ype - BH-47G2 In Mu	l Certificate - VAL Flight Time tal - 11800 ke/Model- 1260 strument- 350 lti-Eng - 1500	ID MEDICAL-WA (Hours) Last 24 Last 30 Last 90	IVERS/LIM Hrs - 3 Days- 100 Days- 520	IT O
Instrument Rating(s) - AI	RPLANE					
-Narrative LE MANEUVERING TO BEGIN SPRAYING RAIN. AN EXAM OF THE HELICOPTER: ATTACHING BOLT HAD FAILED. THIS L ROTOR. OPERATOR PSNL BELIEVED FERENT SPRAYING LOCATIONS.	REVEALED EVIDENCE THAT THE ALLOWED THE TAIL BOOM TO	HE LOWER TAIL BOOM . D BEND UPWARD UNTIL	ATTACHMENT BOLT WAS THE MAIN ROTOR BLA	ELONGATED AN DES CONTACTED	D THAT THE	

8/14/89	QUITMAN,MS	A/C Reg. No.	N9085T	Time (Lcl) - 1240 CDT	
· · · · · · · · · · · · · · ·	NT/SYSTEM FAILURE/MAL	FUNCTION			
L BOOM - FAILU	RE, TOTAL				
FLIGHT COLLIST	•	 R			
	RFRAME/COMPONENT INEUVERING	RFRAME/COMPONENT/SYSTEM FAILURE/MAL NEUVERING L BOOM - FAILURE, TOTAL	RFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION ANEUVERING	RFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION NEUVERING L BOOM - FAILURE, TOTAL	RFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION INEUVERING L BOOM - FAILURE, TOTAL

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE TAIL BOOM ATTACHMENT.

File No 1519 10/25/89 COLUM	BIA,MS A/C	Reg. No. N19007	3	Cime (Lcl) -	- 1250 CDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION) Aircra DESTF Fire NONE	aft Damage ROYED (Fatal Crew 1 Pass 0	Injur Serious 0 0	ries Minor 0	None 0 0
Aircraft Information Make/Model - CESSNA 150L Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2	Eng Make/Model - C Number Engines - Engine Type - F Rated Power -	1 RECIPROCATING-CAP		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- CALM Visibility - 8.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poir COLUMBIA, MS Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	n – NONE – NONE	OFF AI Airport COLUME Runway Runway Runway		- N/A - N/A - N/A	
	Age - 32 Biennial Flight Review Current - UNK/N Months Since - UNK/N Aircraft Type - UNK/N	Medical Certii F IR Total IR Make/Model IR Instrument Multi-Eng	- 750	MEDICAL-WA Iours) Last 24 Last 30 Last 90	AIVERS/LIM Hrs - 1 Days- 10 Days- 25	TT
Instrument Rating(s) - AIRPLANENarrative FTER THE PLT TOOK OFF, THE ACFT WAS OBSERVED TO 5 MIN LATER, THE ACFT WAS OBSERVED IN AN MPACT. NO PRE-ACDNT PART FAILURE OR MALFUNCT ECENT ILLEGAL ACTIVITY. IN A LETTER TO HIS P	TO ENTER A CLIMB, WHICH C UNUSUALLY HIGH RATE OF DE ION WAS FOUND. THE PLT WAS	ONTINUED UNTIL T SCENT & IN A STE RPRTD TO BE DIS	EP NOSE DOWN	ATTITUDE UN	TIL	

File No. - 1519 10/25/89 COLUMBIA, MS A/C Reg. No. N19007 Time (Lcl) - 1250 CDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation DESCENT

Finding(s)

1. SUICIDE - INTENTIONAL - PILOT IN COMMAND

2. EMOTIONAL REACTION - 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: SUICIDE. THE PILOT'S EMOTIONAL STATE OF DISTRESS WAS A RELATED FACTOR.

Basic Information Type Operating Certificate-NONE (GEN	ERAL AVIATION) AI	rcraft Damage ESTROYED	Fai	Inj tal Serious	uries Minor	None
Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT				0 1 0	0	0
-Aircraft Information Make/Model - MOONEY M20C Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2575 No. of Seats - 4	Eng Make/Model Number Engines	LYCOMING 0-360-	-A1D		/Activated ing System	
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEF Method - N/A Completeness - N/A Basic Weather - IMC Wind Dir/Speed- 310/009 KTS Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - OVERCAST Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - DAYLIGHT	HARDIN,MT Destination LEWISTON,ID	Plan - NONE ce - NONE	Oi Air Ri Ri Ri	port Proximity FF AIRPORT/STR Port Data unway Ident unway Lth/Wid unway Surface unway Status	- N/A - N/A - N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Instrument Rating(s) - AIRPLANE	Age - 39 Biennial Flight Revie Current - U Months Since - U Aircraft Type - U	NK/NR Total NK/NR Make/Mod NK/NR Instrume	- 1632 del- UNK/NR ent- UNK/NR	EXPIRED ne (Hours) Last Last Last Rotor	24 Hrs - UN 30 Days- UN 90 Days- UN craft - UN	K/NR K/NR K/NR K/NR
Narrative E INSTRUMENT RATED COMMERCIAL PILOT REPORT DESCENDED TO 12,500 FEET AND THEN TO 11, NN TO ELEVEN THOUSAND AND THE TREES CAME EVATION OF THE CRASH SITE WAS 9175 FEET.	,000 FEET IN AN EFFORT TO	AVOID THE WEATHER	R. HE STATEI	"I DESCENDED		

Occurrence #1

A/C Reg. No. N3456X Time (Lcl) - 0722 MDT

Phase of Operation CRUISE

IN FLIGHT ENCOUNTER WITH WEATHER

Finding(s)

1. WEATHER CONDITION - CLOUDS

- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION FOG
- 4. WEATHER CONDITION RAIN
- 5. VFR FLIGHT INTO IMC CONTINUED PILOT IN COMMAND

File No. - 1559 9/18/89 NEIHART, MT

Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT

Finding(s)

6. TERRAIN CONDITION - HIGH TERRAIN

- 7. TERRAIN CONDITION TREE(S)
- 8. PROPER ALTITUDE NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

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

File No 1531 5/13/89 TROY,NC	A/C Reg. No. N9976	66 Ti	me (Lcl) - 19	20 EDT	
Type Operation Type of Operation -FERRY Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING		Fatal Crew 1 Pass 0	Injuries Serious M 0 0	inor None 0 0 0 0	
Aircraft Information Make/Model - ERCOUPE 415-C Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1260 No. of Seats - 2		75-12 ELT I St CARBURETOR	installed/Acti all Warning S	vated - UNK/NR ystem - UNK/NR	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 240/008 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 12000 FT SCATTERE Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point ROBBINS,NC Destination WADESBORO,NC	Airport P OFF AIR Airport D	Proximity PORT/STRIP		
	- 33 Medical Cert nnial Flight Review Current - UNK/NR Total Months Since - UNK/NR Make/Mod Aircraft Type - UNK/NR Instrume Multi-Er	tificate - VALID Flight Time (Ho - 321 del- UNK/NR ent- UNK/NR ng - UNK/NR	MEDICAL-NO WA Purs) Last 24 Hr Last 30 Da Last 90 Da Rotorcraft	IVERS/LIMIT s - UNK/NR ys- UNK/NR ys- UNK/NR - UNK/NR	
Instrument Rating(s) - NONE Narrative AFTER A LOW PASS OVER AN OPEN FIELD, THE ACFT COI HAD CIRCLED THE AREA 2 OR 3 TIMES AT LOW ALT BEFO NOTED THAT THERE WERE SVRL OPEN FIELDS IN THE VIO WERE DETERIORATED. NO OTHER PREIMPACT PART FAILU HOWEVER, THE ENG WAS DAMAGED BY FIRE. THE LAST A THE PLT WAS AN IA-RATED MECHANIC, WHO HAD BEEN HI FERRY IT TO ANOTHER ARPT.	RE THE ACDNT & THAT THE ENG WAS RUNN INITY. AN EXAM REVEALED THE IGNITIC RE OR MALFUNCTION WAS FOUND THAT WOU NNUAL INSPN WAS ON 11/14/83; FLT TIM	NING ERRATICALLY. ON SYS WIRES TO T JLD HAVE RESULTED ME SINCE THEN WAS	THE WITNESS THE SPARK PLUG IN THE ACONT ABOUT 13 HRS	ALSO S ;	

File No. - 1531 5/13/89 TROY, NC A/C Reg. No. N99766 Time (Lcl) - 1920 EDT

Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF

Phase of Operation CRUISE

Finding(s)

1. POWERPLANT - UNDETERMINED

2. MAINTENANCE, INSPECTION OF AIRCRAFT - INADEQUATE - PILOT IN COMMAND

Occurrence #2

IN FLIGHT COLLISION WITH OBJECT

Phase of Operation MANEUVERING

Finding(s)

3. PRECAUTIONARY LANDING - DELAYED - PILOT IN COMMAND

4. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN UNDETERMINED POWERPLANT PROBLEM, WHICH RESULTED IN A LOSS OF ENGINE POWER, AND THE PILOT/MECHANIC'S FAILURE TO ASSURE THE AIRCRAFT WAS PROPERLY INSPECTED BEFORE FLIGHT. FACTORS RELATED TO THE ACCIDENT WERE: THE PILOT'S DELAY IN MAKING A PRECAUTIONARY LANDING, AND OBSTRUCTIONS (TREES) IN THE PRECAUTIONARY LANDING AREA.

File No 1440 5/13/89 F	UQUAY, NC	A/C Reg. No. N733		Т	ime (Lcl) ·	- 1530 EDT	
-Basic Information Type Operating Certificate-NONE (GE Type of Operation -INSTRUCT Flight Conducted Under -14 CFR 9 Accident Occurred During -LANDING				Fatal 0 0	Inju: Serious 0 0	ries Minor 0 0	None 1 0
-Aircraft Information Make/Model - CESSNA 172N Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Number Engin	el - LYCOMING 0-320 es - 1 - RECIPROCATING- - 160 HP		S	Installed/ tall Warnin	Activated ng System	- YES/NO - YES
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIE Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 120/005 KTS Visibility - 15.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary FING Last Departure SAME AS ACC Destination LOCAL ATC/Airspace	/INC	ATTERN	ON AIR Airport TRIPLE Runway Runway Runway	Data W AIR PARI	- 16 - 3004/ - ASPHALT	70
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 58 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical Cer iew N/A Total N/A Make/Mo N/A Instrum Multi-E	rtificate Flight - 47 odel- 45 ment- Eng -	- VALID Time (H	MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotorci		
Instrument Rating(s) - NONE							

File No. - 1440 5/13/89 FUQUAY, NC

A/C Reg. No. N733VS

Time (Lcl) - 1530 EDT

Occurrence #1

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. FLARE - IMPROPER - PILOT IN COMMAND

Occurrence #2

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING

Finding(s)

- 2. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 3. GROUND LOOP/SWERVE INADVERTENT PILOT IN COMMAND

Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING - ROLL

Finding(s)

- 4. TERRAIN CONDITION SOFT
- 5. TERRAIN CONDITION WET

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE STUDENT PILOT TO MAINTAIN DIRECTIONAL CONTROL OF THE AIRCRAFT DURING THE LANDING, WHICH RESULTED IN AN INADVERTENT GROUND SWERVE. CONTRIBUTING FACTORS WERE: IMPROPER FLARE BY THE STUDENT DURING THE LANDING, WHICH RESULTED IN A HARD LANDING, AND THE SOFT/WET (SWAMPY) TERRAIN CONDITIONS.

File No 1507 9/29/89 HATTER	AS, NC	A/C Reg. No. 1	N2333L	Time (Lcl)	- 1320 EDT	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING				Inju zal Serious 0 0 0 0	ries Minor 1 1	None 0 0
Aircraft Information Make/Model - BEECH B23 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Eng Make/Mod Number Engin	del - LYCOMING O	-320-D2B	Stall Warni	na 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- 070/004 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 10000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departur MANTEO,NC Destination OCRACOKE,NC	t Plan - NONE ance - NONE g - FORCED	Airp OF Airp Ru	oort Proximity F AIRPORT/STRI Oort Data Inway Ident Inway Lth/Wid Inway Surface Inway Status	P - N/A - N/A - N/A	
Personnel Information Pilot-In-Command		Medical	Certificate - V Flight Tim al - 700 e/Model- 250 rrument- 20 ri-Eng - UNK/NR	VALID MEDICAL-W ne (Hours) Last 2 Last 3 Last 9 Rotorc	AIVERS/LIMI 4 Hrs - 1 0 Days- 3 0 Days- 3 raft - UNF	T :/NR
<pre>Instrument Rating(s) - AIRPLANE</pre>						
THE PILOT REPORTED EXPERIENCING ENGINE PROBLEM IN ENGINE RPM UNTIL IT STABILIZED AT 1500 RPM. FURTHER REDUCED THE RPM. THE TEMP/DEW POINT WE FORMATION OF INDUCTION ICING. THE AIRCRAFT WAS EXAMINATION FAILED TO INDICATE ANY TYPE OF SYS SYSTEM DURING THE PRE-FLIGHT INSPECTION OF THE	THROUGHOUT THE EME RE 79/63 DEGREES, R DAMAGED WHEN IT HI TEM PROBLEM. THE PI	RGENCY, THE PILO ESPECTIVELY. THE T BUSHES DURING	OT APPLIED CARBU E CONDITIONS WER A FORCED LANDIN	RETOR HEAT WHICE CONDUCIVE FOR	CH R THE WRECKAGE	

File No. - 1507

9/29/89

HATTERAS, NC

A/C Reg. No. N2333L

Time (Lcl) - 1320 EDT

Occurrence #1

LOSS OF ENGINE POWER

Phase of Operation CRUISE - NORMAL

Finding(s)

1. REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2

FORCED LANDING

Phase of Operation DESCENT - EMERGENCY

Occurrence #3

IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING

Finding(s)

2. TERRAIN CONDITION - HIGH VEGETATION

----Probable Cause----

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

File No 1504 10/18			Reg. No. N		Ti:	me (Lcl) -	2030 EDT	
Type Operating Certificate- Type of Operation - Flight Conducted Under - Accident Occurred During -	PERSONAL 14 CFR 91 LANDING	VIATION) Aircr SUBS Fire NONE	aft Damage TANTIAL	Crew Pass	Fatal 0 0	Injuri Serious 0 0	Minor 0 0	None 1 0
Aircraft Information Make/Model - CESSNA 210 Landing Gear - TRICYCLE-RE Max Gross Wt - 3300 No. of Seats - 4	TRACTABLE	Eng Make/Model - Number Engines - Engine Type - Rated Power -	1 RECIP-FUEL :			nstalled/Ac all Warning		
Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - FULL Basic Weather - IMC Wind Dir/Speed 050 Visibility - UNK/NR Lowest Sky/Clouds - U Lowest Ceiling - Obstructions to Vision- F Precipitation - R Condition of Light - D	ation NK/NR 700 FT BROKEN OG AIN	Itinerary Last Departure Poi ADDISON,TX Destination ELKIN,NC ATC/Airspace Type of Flight Plat Type of Clearance Type Apch/Lndg	n – IFR – IFR		Airport D	PORT/STRIP	05 10000/ 1 ASPHALT	.50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND Instrument Rating(s)		e - 24 ennial Flight Review Current - YES Months Since - 5 Aircraft Type - UNK/	Total Make, NR Insti	Certificate Flight 1 - 500 /Model- 50 rument- UNK, i-Eng - UNK,	/NR	Last 24 Last 30 Last 90	Hrs - UNK Days- UNK Days- 150	I/NR I/NR
Narrative HE PLT HAD PLANNED A 5 HR FLT TO AND FROM AN NDB APCH, BUT MADE A REENSBORO, BUT THE ENG BEGAN LOS REES DURING A FORCED LANDING AFT	ELKIN, NC. HE I MISSED APCH & I ING POWER FROM I	DIVERTED TO GREENSBORO FUEL EXHAUSTION ABOUT	, NC. HE OBT	FAINED VECTO	ORS FOR A	N ILS 5 APC	H AT	

File No. - 1504 10/18/89 KERNERSVILLE, NC A/C Reg. No. N1155M Time (Lcl) - 2030 EDT

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation APPROACH

Finding(s)

- 1. WEATHER CONDITION LOW CEILING
- 2. WEATHER CONDITION FOG
- 3. WEATHER CONDITION RAIN
- 4. FLIGHT TO ALTERNATE DESTINATION

Occurrence #2 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH

Finding(s)

5. FÜEL CONSUMPTION CALCULATIONS - IMPROPER - PILOT IN COMMAND

6. FLUID, FUEL - EXHAUSTION

7. FUEL SUPPLY - INADEQUATE - 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)

8. LIGHT CONDITION - DUSK

9. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FUEL CONSUMPTION CALCULATIONS BY THE PILOT, WHICH RESULTED IN FUEL EXHAUSTION FROM LACK OF FUEL. ADVERSE WEATHER CONDITIONS WERE RELATED TO THE ACCIDENT.

File No 1486 11/19/89 BURL	INGTON, NC	A/C Reg. No.	N89212	Ti	me (Lcl) -	1130 EST	
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -AERIAL PHOTO Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH			e Crew Pass	Fatal 0 0	Injuri Serious 1 1	es Minor 0 0	None 0 0
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2			D-235-L2C FING-CARBURET	ELT I St OR	nstalled/Ac all Warning	stivated - System -	- YES-UNK/NR - YES
Environment/Operations Information Weather Data Www.Briefing - NO RECORD OF BRIFFING	Itinerary Last Departur BURLINGTON, Destination LOCAL	re Point NC		Airport E OFF AIF Airport D Runway Runway Runway	roximity PORT/STRIP	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 18 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical riew YES Tot 17 Mal C-152 Ins	l Certificate Flight cal - 70 ke/Model- UNK strument- UNK	- VALID Time (Hc /NR /NR /NR	MEDICAL-WAI urs) Last 24 Last 30 Last 90 Rotorcra	VERS/LIMI Hrs - UNK Days- UNK Days- UNK ft - UNK	T C/NR C/NR C/NR C/NR
Instrument Rating(s) - NONE							
THE PLT & PASSENGER TOOK OFF ON A FLT TO TAKE ACCOMMODATE THE PASSENGER'S PHOTO PROCESS. HE ACCELERATED TO 75 KTS & BEGAN TO CLIMB, THE PLT TRIED TO MANEUVER AROUND A BARN TO LAND ATTITUDE. A POST-ACDNT EXAM OF THE ACFT FAILS WERE RPRTD TO BE 41 & 15 DEG. ACCORDING TO CARREST ACCOR	E THEN INCREASED POWE ENG LOST POWER. ALTIT IN A FIELD; HOWEVER, ED TO REVEAL ANY PREI	R & LOWERED THE UDE AT ABOUT TH THE ACFT HIT TH MPACT MECHANICA	E NOSE TO GAI HAT TIME WAS I HE BARN & CRA AL PROBLEMS. 1	N AIRSPEE ABOUT 800 SHED IN A THE TEMP	D. AS HE ' AGL. THE N INVERTED		

File No 14	86 11/19/89 BURLINGTON,NC	A/C Reg. No. N89212	Time (Lcl) - 1130 EST
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWER MANEUVERING		
Finding(s) 1. REASON FOR OCCU	RRENCE UNDETERMINED		
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
Occurrence #3 Phase of Operation	IN FLIGHT COLLISION WITH OBJECT APPROACH		
Finding(s) 2. OBJECT - BUILDI	NG (NONRESIDENTIAL)		
Probable Cause			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNKNOWN REASON. THE BARN WAS CONSIDERED TO BE A RELATED FACTOR.

File No 1553 12/29/89 WINST	CON SALEM, NC A/C Reg. No		Time (Lcl) - 1545 EST	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING			Injuries Serious Minor 1 0 0 1	None 0 0
Aircraft Information Make/Model - MORRISEY 2150A Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1817 No. of Seats - 2	Eng Make/Model - LYCOMING Number Engines - 1 Engine Type - RECIPROC Rated Power - 150 H	O-320 EL ATING-CARBURETOR P	T Installed/Activated - Stall Warning System -	- YES/YES - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 250/005 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 12000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	WILKSBORO,NC Destination TRINITY,NC	OFF . Airpor Runw Runw Runw Runw Runw	t Proximity AIRPORT/STRIP t Data ay Ident - N/A ay Lth/Wid - N/A ay Surface - N/A ay Status - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 64 Medic Biennial Flight Review Current - UNK/NR T Months Since - UNK/NR M Aircraft Type - UNK/NR I	al Certificate - VAL Flight Time otal - 223 ake/Model- UNK/NR nstrument- UNK/NR ulti-Eng - UNK/NR	ID MEDICAL-WAIVERS/LIMI (Hours) Last 24 Hrs - 2 Last 30 Days- 3 Last 90 Days- 20 Rotorcraft - UNE	TT K/NR
Narrative ABOUT 15 MINUTES AFTER TAKEOFF, THE PILOT EXF FAILED & THE AIRPLANE CRASHED IN A WOODED ARE WHICH RESTRICTED AND TERMINATED THE GRAVITY F STRUCTURE. THE PILOT WAS OPERATING FROM THE I	A. A WRECKAGE EXAMINATION DISCLOS LOW OF FUEL TO THE ENGINE. THIS B	ED THAT THE LEFT FUE: LOCKAGE WAS LOCATED I	L VENT WAS BLOCKED,	

File No 155	3 12/29/89	WINSTON SALEM, NC	A/C Reg. No. N5145V	Time (Lcl) - 1545 EST
Occurrence #1 Phase of Operation	LOSS OF ENGINE E	OWER		
Finding(s) 1. FUEL SYSTEM, VENT 2. FLUID, FUEL - STA	- BLOCKED(TOTAL) RVATION			
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGE	NCY		
Occurrence #3 Phase of Operation	IN FLIGHT COLLIS DESCENT - EMERGE			
Finding(s)				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A BLOCKED FUEL VENT LINE, WHICH PREVENTED NORMAL FUEL FLOW TO THE ENGINE AND SUBSEQUENT LOSS OF POWER.

File No 1545 7/04/89 BROKE	N BOW, NE A/C	Reg. No. N8636V	Time (Lcl)	- 1150 CDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION) Aircra DESTF Fire NONE	ft Damage OYED Crew Pass	Inj Fatal Serious 1 0 0 0	uries Minor 0 0	None 0 0
Aircraft Information Make/Model - BELLANCA 8KCAB Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1800 No. of Seats - 2		YCOMING AEIO-320-E1B 1 ECIP-FUEL INJECTED 150 HP	ELT Installed Stall Warn	/Activated - U ing System - Y	UNK/NR YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 120/014 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 8000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poin SAME AS ACC/INC Destination DENVER,CO	t	Airport Proximity OFF AIRPORT/STR Airport Data BROKEN BOW	IP	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 50 Biennial Flight Review Current - YES Months Since - 14 Aircraft Type - UNK/N	Medical Certificate Flight Total - 120 Make/Model- UNE R Instrument- UNE Multi-Eng - UNE	e - VALID MEDICAL- t Time (Hours) 00 Last K/NR Last K/NR Last K/NR Rotor	WAIVERS/LIMIT 24 Hrs - UNK/N 30 Days- UNK/N 90 Days- UNK/N craft - UNK/N	IR IR IR IR
Instrument Rating(s) - AIRPLANE					
Narrative BEFORE TAKEOFF, SOMEONE ASKED THE PLT TO PERF WAS TURNED BACK TOWARD THE ARPT. A ROLL WAS P WITNESSES RPRTD THE ACFT MADE ABOUT 2 TURNS OIN A STEEP DESCENT $\&$ WAS EXTENSIVELY DAMAGED. FOLDING CHAIR HAD BEEN STOWED IN THE REAR SEADURING ACROBATIC FLIGHT."	ERFORMED, BUT SOON THEREAF F A SPIN BEFORE DISAPPEARI AN INVESTIGATION REVEALE	TER, THE ACFT ENTEREI NG FROM THEIR VIEW. D THAT 2 BACK PACKS,) A DSCNT & BEGAN SUBSEQUENTLY, IT A BAG OF CLOTHING	SPINNING. IMPACTED & A	

File No. - 1545 7/04/89 BROKEN BOW, NE A/C Reg. No. N8636V Time (Lcl) - 1150 CDT Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING Finding(s) 1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND 2. AEROBATICS - PERFORMED - PILOT IN COMMAND 3. FLIGHT CONTROL SYSTEM - MOVEMENT RESTRICTED 4. AIRCRAFT CONTROL - NOT POSSIBLE -5. STALL - UNCONTROLLED -

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation DESCENT - UNCONTROLLED

Finding(s)

6. TERRAIN CONDITION - GROUND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT BY PERFORMING ACROBATIC FLIGHT WITH BAGGAGE IN THE REAR COCKPIT OF THE AIRCRAFT, WHICH PROBABLY RESTRICTED MOVEMENT OF THE FLIGHT CONTROLS AND RESULTED IN UNCONTROLLED FLIGHT AND A SPIN.

File No 1544 7/23/89 NEL	IGH,NE A/C Reg. No. N66295	Time (Lcl) - 1515 CDT
Basic Information Type Operating Certificate-NONE (GENE) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	RAL AVIATION) Aircraft Damage DESTROYED Fire Cre NONE Pas	Injuries Fatal Serious Minor None ew 1 0 0 0 ss 1 0 0 0
Aircraft Information	Eng Make/Model - LYCOMING O-360-A4K Number Engines - 1 Engine Type - RECIPROCATING-CARBU Rated Power - 180 HP	
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 210/008 KTS Visibility - 10.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 6000 FT BRO	Itinerary Last Departure Point SPENCER, IA Destination KEARNEY, NE ATC/Airspace Type of Flight Plan - NONE	Airport Proximity OFF AIRPORT/STRIP Airport Data Runway Ident - N/A
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 60 Medical Certific Biennial Flight Review Fli Current - UNK/NR Total - Months Since - UNK/NR Make/Model- Aircraft Type - UNK/NR Instrument- Multi-Eng -	cate - VALID MEDICAL-WAIVERS/LIMIT ight Time (Hours) 100
Narrative THE ACFT CRASHED NEAR NELIGH, NE, AS IT WAS WHO HEARD THE ACFT, SAID IT WAS PROCEEDING OF WITNESS RPRTD THAT JUST BEFORE THE ACDNT, THE IT ENTERED A STEEP DESCENT & DISAPPEARED FRO	ON A X-COUNTRY FLT FROM SPENCER, IA, TO KEARN ON A SOUTHWESTERLY HEADING AT LOW ALTITUDE BEFIE ACFT ENTERED A STEEP CLIMB (TO AN ESTIMATED OM HIS VIEW. AN EXAM OF THE WRECKAGE REVEALED CLURE OR MALFUNCTION OF THE ACFT WAS FOUND. THE ACDNT.	FORE IT CRASHED. AN EYE D 500 TO 600 FT), THEN IT HAD IMPACTED IN A

File No. - 1544 7/23/89 NELIGH, NE A/C Reg. No. N66295 Time (Lcl) - 1515 CDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Phase of Operation MANEUVERING

Finding(s)

- 1. MANEUVER INITIATED PILOT IN COMMAND
- 2. ALTITUDE INADEQUATE PILOT IN COMMAND
- 3. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 4. STALL INADVERTENT PILOT IN COMMAND
- LACK OF TOTAL EXPERIENCE 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: FAILURE OF THE PILOT TO MAINTAIN ADEQUATE AIRSPEED AFTER INTIATING A STEEP CLIMBING MANEUVER FROM LOW ALTITUDE. FACTORS RELATED TO THE ACCIDENT WERE: THE PILOT'S LACK OF TOTAL FLYING EXPERIENCE AND LACK OF SUFFICIENT ALTITUDE.

File No 1546 9/20/89 HYANN	IIS, NE	A/C Reg. No	o. N733FY	T	me (Lcl) -	2030 MST	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -NON SCHED, DO Flight Conducted Under -14 CFR 135 Accident Occurred During -DESCENT						ies Minor 0 1	None 0 0
Aircraft Information Make/Model - CESSNA 172N Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4							
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELETYPE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 340/012 KTS Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - OVERCAST Obstructions to Vision- UNK/NR Precipitation - RAIN Condition of Light - NIGHT(DARK)	Itinerary Last Departu COLUMBUS, N Destination ALLIANCE, N ATC/Airspace Type of Flic	ure Point NE NE ght Plan - VFR wrance - VFR		Airport I Airport I	Proximity RPORT/STRIP Data	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Instrument Rating(s) - AIRPLANE	Age - 54 Biennial Flight Re Current Months Since Aircraft Type	Medio eview - YES ' - 12 ' - C-172 :	cal Certificat Fligh Fotal - 20 Make/Model- 30 Instrument- Multi-Eng - UN	e - VALID t Time (Ho 00) 56 K/NR	MEDICAL-WA burs) Last 24 Last 30 Last 90 Rotorer	IVERS/LIMI Hrs - 8 Days- 33 Days- 98 aft - UNK	T :/NR
Narrative THE PILOT RECEIVED A COMPLETE WEATHER BRIEFIN ADVISORIES AFFECTING HIS INTENDED ROUTE. THE CONDITIONS AT NIGHT WITH HEAVY RAIN. HE ELEC HE LEANED FORWARD TO LOOK AT THE MAGNETIC COM INVESTIGATION REVEALED THE AIRCRAFT HAD DESCE	PILOT FILED A VFR E TED TO MAKE A 180 I PASS, BUT COULD NOT	TLIGHT PLAN; HO DEGREE TURN AND TREMEMBER ANY	OWEVER, HE ENCO LAND AT A NE THING FURTHER A	OUNTERED N ARBY AIRPO	MARGINAL WX	ID	

File No. - 1546 9/20/89 HYANNIS, NE

A/C Reg. No. N733FY

Time (Lcl) - 2030 MST

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT

Finding(s)

1. LIGHT CONDITION - DARK NIGHT

- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION RAIN
- 4. FLIGHT TO ALTERNATE DESTINATION INITIATED PILOT IN COMMAND
- 5. 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 MAINTAIN SUFFICIENT ALTITUDE. DARKNESS AND ADVERSE WEATHER CONDITIONS WERE RELATED FACTORS.

File No 1594 7/31/89 WO		A/C Reg. No. No. No. No. No. No. No. No. No. No			lme (Lcl) - Injur		
Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Serious 0 0	Minor 0 0	None 1 0
Make/Model - CESSNA 185D Landing Gear - FLOAT Max Gross Wt - 3350 No. of Seats - 6	Number Engi Engine Type	del - CONTINENTAL nes - 1 - RECIP-FUEL 1 - 300 HP	IO-520-D	ELT) St	installed/A all Warnin	ctivated - g System -	· YES/Y: · YES
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 320/008 KTS Visibility - 40.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	3.00 / 3.4 · · · · ·	re Point ht Plan - NONE rance - NONE dg - FORCED I		Airport I	RPORT/STRIP	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, SE SEA	Age - 42 Biennial Flight Re Current Months Since Aircraft Type	Medical C view - YES Total - 15 Make/ - J-3 Instr	Certificate Flight - 365 'Model- 35 rument-	e - VALID Time (Ho	MEDICAL-WA ours) Last 24 Last 30 Last 90	IVERS/LIMI Hrs - 14 Days- 22 Days- 25	т
Instrument Rating(s) - NONE							
Narrative PLT RPRTD THAT DURING CRUISE FLT, THE : D & A WOODED AREA TO HIS LEFT, SO HE M T 1ST & WAS DAMAGED. NO REASON WAS FOU	ANEUVERED TO THE RIGHT						

File No. - 1594 7/31/89

WOLFEBORO, NH

A/C Reg. No. N1526F

Time (Lcl) - 1730 EDT

Occurrence #1

LOSS OF ENGINE POWER

Phase of Operation CRUISE - NORMAL

Finding(s)

1. REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2

FORCED LANDING

Phase of Operation DESCENT - EMERGENCY

Occurrence #3 HARD LANDING

Phase of Operation LANDING

Finding(s)

2. TERRAIN CONDITION - WATER

- 3. AIRPORT FACILITIES HIGH OBSTRUCTION(S)
- 4. MANEUVER PERFORMED PILOT IN COMMAND
- 5. FLARE NOT ATTAINED PILOT IN COMMAND
- 6. TERRAIN CONDITION WATER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNKNOWN REASON. FACTORS RELATED TO THE ACCIDENT WERE: THE OBSTRUCTIONS (TREES & BOATS) IN THE EMERGENCY LANDING AREA.

		Aircraft Damag	Α		Injur	ies	
Type of Operation -SIGHTSEEING Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	·	SUBSTANTIAL Fire NONE		Fatal 0 0	Serious	Minor	None 1 2
Aircraft Information Make/Model - WACO UPF-7 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2650 No. of Seats - 3	Number Eng Engine Typ	Model - CONTINENT gines - 1 De - RECIPROCA ET - 220 HP	TING-CARBURET	St	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- CALM Visibility - 15.0 SM Lowest Sky/Clouds - 10000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	SAME AS A Destination LOCAL ATC/Airspace TERED Type of Fli Type of Cle	CC/INC		ON AIRI Airport I PLYMOU Runway Runway Runway Runway	Data TH	GRASS/TUF	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL, CFI SE LAND, ME LAND	Age - 34 Biennial Flight R Current Months Since Aircraft Type	Medica Review - YES To - 21 Ma - C-172RC In Mu	l Certificate Flight tal - 166 ke/Model- 45 strument- lti-Eng -	- VALID Time (Ho 7 42 246	MEDICAL-NO ours) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/I Hrs - 1 Days- 85 Days- 250 aft - UNK	IMIT
Instrument Rating(s) - AIRPLANE	H INSPECTION OF TH	E AIRCRAFT PRIOR	TO TAKEOFF.	DURING TA	AKEOFF, THE	THE ·) Z/NR

File No. - 1587 8/02/89 PLYMOUTH, NH A/C Reg. No. N39752 Time (Lcl) - 1930 EDT

Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - ABORTED

Finding(s)

1. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
2. GROUND LOOP/SWERVE - UNCONTROLLED - PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - ABORTED

Finding(s)
3. TERRAIN CONDITION - DITCH

Occurrence #3 NOSE OVER Phase of Operation TAKEOFF - ABORTED

Occurrence #3 NOSE OVER Phase of Operation TAKEOFF - ABORTED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF DIRECTIONAL CONTROL DURING AN ABORTED TAKEOFF. THE DITCH WAS A RELATED FACTOR.

File No 1498 1/19/89	LUMBERTON, NJ	A/C Reg. No. 1	N201MQ	Ti	me (Lcl) -	- 2150 E	ST
-Basic Information Type Operating Certificate-NONE (Type of Operation -PERSON Flight Conducted Under -14 CFR Accident Occurred During -LANDIN	AL 91	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 0 0	Minor	
-Aircraft Information Make/Model - MOONEY M20J Landing Gear - TRICYCLE-RETRACTA Max Gross Wt - 2740 No. of Seats - 4	BLE Number En				nstalled/A all Warnin		
-Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BR Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 050/003 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR	Itinerary IEFING Last Depar NEW HAVE Destinatio SAME AS ATC/Airspace Type of Fl Type of Cl Type Apch/	ture Point N,CT n ACC/INC ight Plan - NONE	I	ON AIRE Airport D FLYING Runway Runway Runway	ata	- 3496/ - ASPHAL	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 43 Biennial Flight Current Months Since Aircraft Typ	Medical Review - UNK/NR Tota - UNK/NR Make e - UNK/NR Mult	Certificate Flight al - 270 e/Model- UNK/ trument- UNK/	- VALID Time (Ho 'NR 'NR 'NR	MEDICAL-NC urs) Last 24 Last 30 Last 90 Rotorcr	WAIVER Hrs - Days- Days- aft -	S/LIMIT UNK/NR UNK/NR UNK/NR UNK/NR

File No 14	98 1/19/89	LUMBERTON, NJ	A/C Reg. No. N201MQ	Time (Lcl) - 2150 EST
Occurrence #1 Phase of Operation	LOSS OF CONTROL	- ON GROUND		
	TROL - NOT MAINTAI	NED - PILOT IN COMMA - PILOT IN COMMAND	.ND	
Occurrence #2 Phase of Operation	ON GROUND COLLIS	ION WITH OBJECT		
Finding(s) 4. OBJECT - TREE(S)		·	
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 A TOUCH-AND-GO, WHICH RESULTED IN AN INADVERTENT GROUND SWERVE. THE PRESENCE OF TREES NEAR THE RUNWAY WAS CONSIDERED TO BE A FACTOR.

File No 1465 1/28/89 BLAIR	RSTOWN, NJ	A/C Reg.	No. N5300G				
Basic Information Type Operating Certificate-NONE (GENER! Type of Operation -GLIDER TOW Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	AL AVIATION)	Aircraft Da SUBSTANTIA Fire NONE	umage NL Crew Pass Other	Fatal 1 0	Injur Serious 0 0	ries Minor 0 0	None 0 0 1
Aircraft Information Make/Model - CESSNA 305A Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 2							
Environment/Operations Information Weather Data Wx Briefing - NWS Method - TV/RADIO Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 240/016 KTS Visibility - 12.0 SM Lowest Sky/Clouds - 25000 FT THIN Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND GLIDER Instrument Rating(s) - AIRPLANE	Age - 32 Biennial Flight Current Months Since Aircraft Typ	Med Review - UNK/NR - UNK/NR - UNK/NR	dical Certificate Flight Total - 470 Make/Model- 123 Instrument- Multi-Eng -	e - VALID Time (H 66 17 224	MEDICAL-NO ours) Last 24 Last 30 Last 90	WAIVERS/I Hrs - 3 Days- 25 Days- 93	JMIT
Narrative CESSNA 305A, N5300G, WAS BEING USED TO TOW A PLT ESTIMATED THE TOW LINE WAS LESS THAN 150 THE MANUFACTURER'S RECOMMENDED TOWING SPEED W PREVIOUS OCCASIONS, THE GLIDER PLT HAD REQUES 1000' AGL, THEN A SPEED OF 80 MPH TO THE RELE CLIMB AFTER TAKEOFF WAS NORMAL TO ABOUT 150' LINE & THE GLIDER PLT CORRECTED BY USING YAW. THEN BACK LEFT & HIGH, RAISING THE TAIL OF THE THOUGH BOTH PLTS HAD RELEASED THE TOW LINE. T	FT IN LENGTH. HE AS 50 TO 60 MPH, TED A "CONSERVATI ASE POINT. THE GL AGL, THEN THE GLI WITNESSES RPRTD TOW PLANE. SUBS THE GLIDER LNDD SA	RPRTD THE SCHW BUT THE TOW PI VE" SPEED. RPF IDER PLT STATE DER ENCOUNTERE THE GLIDER MOV EQUENTLY, THE FELY. NO PREIN	EIZER WAS VERY S T PREFERRED A HI TDLY, THEY COMPI D THE WIND WAS O D TURBULENCE. SI ED OUT OF PSN TO TOW PLANE ENTERI PACT MECHANICAL	SENSITIVE IGHER TOW ROMISED OF GUSTY, BU LACK DEVE THE LEF ED A STEE PROBLEMS	ON TOW & T SPEED. ON N A SLOW TO T THE INITI LOPED IN TH T, THEN RIG P DSCNT & C WERE FOUND	HAT SVRL W TO AL E TOW HT, RASHED,	

File No. - 1465 1/28/89 BLAIRSTOWN, NJ A/C Reg. No. N5300G Time (Lcl) - 1500 EST

Occurrence #1 Phase of Operation TAKEOFF - INITIAL CLIMB

LOSS OF CONTROL - IN FLIGHT

Finding(s)

1. WEATHER CONDITION - GUSTS

- 2. WEATHER CONDITION TURBULENCE
- 3. CLIMB EXCESSIVE PILOT OF OTHER AIRCRAFT
- 4. GLIDER TOW RELEASE DELAYED PILOT OF OTHER AIRCRAFT
- 5. GLIDER TOW RELEASE DELAYED 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: DELAYS BY BOTH PILOTS IN RELEASING THE GLIDER TOW LINE AFTER THE GLIDER PILOT ALLOWED THE GLIDER TO MANEUVER EXCESSIVELY ABOVE THE TOW AIRCRAFT. THE WEATHER CONDITIONS WERE FACTORS.

File No 1593 2/27/89 DELMO		A/C Reg. No. N847	71P	T	ime (Lcl)	- 1633 EDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass			ries Minor 0 0	None 1 0
Aircraft Information Make/Model - PIPER PA-24-400	Eng Make/Mod Number Engin Engine Type	el - LYCOMING IO-72	20 - A1A	ELT :	Installed/	Activated - ng System -	
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 - 7.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 3500 FT OVER Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	WILMINGTON, Destination CAPE MAY, NJ ATC/Airspace Type of Flight CAST Type of Clear			OFF AII	Ident	_ N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, SE SEA	Age - 50 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical Cer iew YES Total 11 Make/Mc SNJ-5 Instrum	rtificate Flight - 233 odel- 41 ment-	- VALID Time (Ho 8	MEDICAL-W. ours) Last 2 Last 3 Last 9	AIVERS/LIMI 4 Hrs - 1 0 Days- 30 0 Days- 39	T
Instrument Rating(s) - AIRPLANENarrative THE PIPER PA-24-400 WAS CRUISING AT 2000 FT W OIL PRESSURE. AN OFF AIRPORT LANDING WAS MADE ENGINE REVEALED A FAILURE OF THE NUMBER 6 CON MANUFACTURER'S SPECIFICATIONS. THE ENGINE HAD	IN A FIELD & THE AIR NECTING ROD. IN ADDIT	RCRAFT STRUCK TREES TION, THE PISTONS W	S. A POST VERE FOUN	-CRASH EX D TO BE 1	NOITANIMAX	OF THE	

File No 15	93 2/27/89	DELMONT, NJ	A/C Reg. No. 1	N8471P Ti	ime (Lcl) - 1633 EDT
Occurrence #1 Phase of Operation		CNT/SYSTEM FAILURE/	MALFUNCTION		
Finding(s) 1. ENGINE ASSEMBLY	CONNECTING ROD -	FAILURE, TOTAL			
Occurrence #2 Phase of Operation		ncy			
Occurrence #3 Phase of Operation		SION WITH OBJECT			
Finding(s) 2. OBJECT - FENCE 3. OBJECT - TREE(S)					
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE #6 CONNECTING ROD.

File No 1592 7/23/89 ATLAN	TIC CITY, NJ A/C Reg. No. N	8061C Time (Lcl) - 1045 EDT					
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -BANNER TOW Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	L AVIATION) Aircraft Damage SUBSTANTIAL Fire NONE	Injuries Fatal Serious Minor None Crew 0 0 1 0 Pass 0 0 0 0					
Aircraft Information		320-A2B ELT Installed/Activated - UNK/NR Stall Warning System - NO NG-CARBURETOR					
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 - 4.000 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point RIO GRANDE,NJ Destination LOCAL	Airport Proximity OFF AIRPORT/STRIP Airport Data Runway Ident - N/A Runway Lth/Wid - N/A Runway Surface - N/A Runway Status - N/A					
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 51 Medical (Biennial Flight Review Current - YES Total Months Since - 17 Make, Aircraft Type - C-172RG Insti	Certificate - VALID MEDICAL-WAIVERS/LIMIT Flight Time (Hours) 1 - 1768 Last 24 Hrs - 5 /Model- 123 Last 30 Days- 126 rument- 104 Last 90 Days- 208					
Instrument Rating(s) - AIRPLANE							
Narrative THE PILOT WAS ATTEMPTING TO PICK UP A BANNER LOCATED ADJACENT TO GARDEN STATE PARKWAY. THE BANNER WAS SUCCESSFULLY PICKED UP, BUT THE PILOT STATED THAT IT FELT HEAVY EVEN WITH FULL POWER BEING APPLIED. HE APPLIED RIGHT RUDDER PRESSURE TO CORRECT A WING LOW ATTITUDE & FORWARD PRESSURE TO LOWER THE AIRCRAFT NOSE. THE AIRCRAFT DID NOT ACCELERATE. AS THE PILOT REACHED FOR THE BANNER RELEASE, THE LEFT WING CLIPPED A 20 FT PINE TREE & THE AIRCRAFT CARTWHEELED COUNTERCLOCKWISE, IMPACTING THE GROUND IN A NOSE DOWN ATTITUDE.							

File No. - 1592 7/23/89 ATLANTIC CITY, NJ A/C Reg. No. N8061C Time (Lcl) - 1045 EDT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

- 1. AIRSPEED INADEQUATE PILOT IN COMMAND
- 2. LOAD JETTISON DELAYED PILOT IN COMMAND
- 3. OBJECT TREE(S)
- 4. CLEARANCE 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 PILOT'S FAILURE TO MAINTAIN ADEQUATE FLYING SPEED, AND HIS DELAY TO JETTISON THE BANNER. A FACTOR RELATED TO THE ACCIDENT WAS: THE LOCATION OF THE TREES.

File No 1568 10/21/89 TET	ERBORO, NJ	A/C Reg. No. N2	244MB	Ti	me (Lcl) -	1030 EDT	
Basic Information Type Operating Certificate-NONE (GENE Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 0 0	ies Minor 0 0	None 1 1
Aircraft Information Make/Model - CESSNA T210N Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3800 No. of Seats - 6	Eng Make/Mo Number Engin Engine Type	del - CONTINENTAL		ELT I St	installed/A all Warnin	ctivated · g System ·	- YES/NO - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 260/010 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 7000 FT SC Lowest Ceiling - Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	NORFORK, VA Destination TETERBORO, 1 ATC/Airspace ATTERED Type of Fligh Type of Clear	re Point		Runway Runway	ORT -	6015/ CASPHALT	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - AIRPLANE	Age - 42 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical C view - YES Total - 10 Make/ - UNK/NR Instr	Certificate Flight 1 - 375 /Model- 150 rument-	- VALID Time (Ho 0 0 400	MEDICAL-NO burs) Last 24 Last 30 Last 90	WAIVERS/I Hrs - UNI Days- UNI Days- UNI	LIMIT K/NR K/NR K/NR
		R REMAINED DOWN AN					

File No. - 1568 10/21/89 TETERBORO,NJ A/C Reg. No. N244MB Time (Lc1) - 1030 EDT

Occurrence #1
Phase of Operation

GEAR COLLAPSED

Phase of Operation LANDING

Finding(s)

1. FLUID, HYDRAULIC .- LACK OF

2. LANDING GEAR, GEAR LOCKING MECHANISM - NOT ENGAGED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LACK OF HYDRAULIC FLUID IN THE HYDRAULIC SYSTEM.

File No 1571 9/10/89 SUNLA		C Reg. No. N9342R	Tin	ne (Lcl) - 1	130 MDT	
Basic Information Type Operating Certificate-AGRICULTURAL Type of Operation -AERIAL APPLI Flight Conducted Under -14 CFR 137 Accident Occurred During -LANDING		raft Damage STANTIAL			es Minor 0 0	None 1 0
Aircraft Information Make/Model - CESSNA 188B Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 4200 No. of Seats - 1	Number Engines -			nstalled/Act		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 150/003 KTS Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Po. SANTA TERESA, NM Destination LOCAL ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	int an - NONE - NONE - FORCED LANDING	Runway I Runway S Runway S	PORT/STRIP Ata Adent - N Ath/Wid - N Burface - N Status - N	I/A I/A I/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND	Age - 38 Biennial Flight Review Current - YES Months Since - 10 Aircraft Type - C-1	Medical Certifica Flig Total - 5 Make/Model- 1 72 Instrument- Multi-Eng -	te - VALID M ht Time (Hou 247 700 80 11	ŒDICAL-NO W nrs) Last 24 H Last 30 D Last 90 D	AIVERS/I Irs - 8 Pays- 102 Pays- 299	
Instrument Rating(s) - AIRPLANENarrative THE COMMERCIAL PLT WAS APPLYING FERTILIZER TO "THE ENGINE GAVE A SLIGHT RPM INCREASE THEN I' THE THROTTLE, MIXTURE AND PROPELLER CONTROLS : CONTINUED TO RUN, BUT THE PLANE LOST AIRSPEED TOUCHDOWN, THE PLANE NOSED OVER, THE PROPELLE: WAS DAMAGED. THE PLANE CAME TO REST INVERTED LOSS OF PROPELLER THRUST.	A COTTON FIELD. HE REPORT LOST POWER THROUGH THE FULL FORWARD, BUT THE ACION THE PLT WAS ABLE TO DURK SEPARATED FROM THE ENGRE	ORTED THAT DURING A T PROPELLER." THE PLT FT DID NOT RESPOND." UMP THE REMAINING FER INE, THE RIGHT WING W.	URN FROM A S SAID HE ". HE SAID THE TILIZER BEFO AS SEVERED A	WATH RUN, PUSHED E ENGINE ORE IMPACT. ND THE FUSE	AT LAGE	

File No. - 1571 9/10/89 SUNLAND PARK, NM A/C Reg. No. N9342R Time (Lcl) - 1130 MDT

Occurrence #1

LOSS OF ENGINE POWER

Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY

Occurrence #3 NOSE OVER

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

2. TERRAIN CONDITION - CROP

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: UNDETERMINED. A FACTOR RELATED TO THE ACCIDENT WAS THE CROP IN THE EMERGENCY LANDING AREA.

File No 1558 9/11/89 WINST	ON, NM A/C I	Reg. No. N9496D	Ti	ime (Lcl) -	1815 MDT	1
Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		ft Damage YED Crew UND Pass	Fatal 0 0	Injuri Serious 1 0	les Minor 0	None 0 0
Aircraft Information Make/Model - PIPER PA-18A-150 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750 No. of Seats - 2	Eng Make/Model - L' Number Engines - : Engine Type - RI Rated Power -		st	nstalled/Acall Warning		- YES-UNK/NI - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 325/014 KTS Visibility - 100.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary	– NONE – NONE	Airport F OFF AIF Airport D BEAVERE Runway	RPORT/STRIP Oata IEAD Ident -	30 3840/ DIRT DRY	60
Certificate(s)/Rating(s) COMMERCIAL,ATP,CFI SE LAND,ME LAND,SE SEA	Age - 35 Biennial Flight Review Current - YES Months Since - 0 Aircraft Type - B737					
Instrument Rating(s) - AIRPLANENarrative THE PLT LEANED THE MIXTURE & TOOK OFF ON RWY THE NNW AT ABT 14 KTS. AT APRX 200' TO 300' A TERRAIN AS THE PLT WAS AVOIDING TREES. FIRE OF REVEALED IT CONTAINED A COMPOSITE FLOAT (WHICH WAS STUCK. THE VALVE & SEAT WERE COVERED WITH BLOCKED BY FOREIGN DEBRIS. AN STC HAD BEEN	30, A HIGH ALT DIRT STRIP WAGL, THE ENG BEGAN TO LOSE CONSUMED THE ACFT. A TEARLY WAS DETERIORATED), PART OF A SOFT/STICKY SUBSTANCE	TITH A 3.8% UPHILL OF POWER. THE ACFT SEOWN OF THE MARVEL-SET THE FLOAT TOE WAS THE INLET FILTER SE	CTTLED & CR SCHEBLER MA S MISSING & SCREEN WAS	ASHED ON RO 4-SPA CARB THE NEEDLE	CKY	

File No. - 1558 9/11/89 WINSTON,NM A/C Reg. No. N9496D Time (Lcl) - 1815 MDT

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

Finding(s)

1. FUEL SYSTEM, CARBURETOR FLOAT - DETERIORATED
2. FUEL SYSTEM, SCREEN - BLOCKED (PARTIAL)
3. WEATHER CONDITION - HIGH DENSITY ALTITUDE

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

. ".

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING

Finding(s)

4. TERRAIN CONDITION - HIGH OBSTRUCTION(S)

5. TERRAIN CONDITION - ROUGH/UNEVEN

----Probable Cause----

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

DETERIORATED CARBURETOR FLOAT. FACTORS RELATED TO THE ACCIDENT WERE: HIGH DENSITY ALTITUDE AND THE TERRAIN CONDITIONS
IN THE EMERGENCY LANDING AREA.

File No 1557 10/09/89 LAS	S VEGAS, NM	A/C Reg. No. N	16029S	T	ime (Lcl)	- 1440 MDT	!
Basic Information Type Operating Certificate-NONE (GENE Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	ERAL AVIATION)	Aircraft Damage SUBSTANTIAL		Fatal	Inju: Serious	Minor	None 0 1
-Aircraft Information Make/Model - BEECH A36 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3600 No. of Seats - 4	Eng Make/	Model - CONTINENTAI	IO-520-BB	ELT	Installed/	Activated	
Environment/Operations Information Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 30.0 SM Lowest Sky/Clouds - 5000 FT SC Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depar SAME AS Destination LONGMONT	ture Point ACC/INC n ,CO ight Plan - IFR earance - NONE Lndg - NONE		Airport ON AIR Airport LAS VE Runway Runway Runway Runway	Proximity PORT Data	- 5000/ - ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND					MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotore	AIVERS/LIM 4 Hrs - UN 0 Days- UN 0 Days- UN caft - UN	IIT K/NR K/NR K/NR K/NR
Instrument Rating(s) - AIRPLANE							
Narrative E ACCIDENT OCCURRED DURING TAKEOFF FROM A TITUDE. THE PILOT ATTEMPTED TWO TAKEOFFS LOT SAID THAT PRIOR TO THE FIRST ATTEMPT PLIED POWER FOR TAKEOFF - FULL POWER - MI OPERLY SO SHE ABORTED. DURING THE SECOND SCRIBING THE THIRD ATTEMPT, THE PILOT SAI ME. PULLED OFF, STALL WARNING HORN, DROPE CORDING TO THE TAKEOFF CHART FOR THIS AIF	BUT ABORTED BOTH WHI "DURING RUNUP DETONI XTURE CONTROL OUT AI TAKEOFF THE PILOT SI D "SPEED ON TAKE OFI DED NOSE - NO ADDED I	EN THE AIRCRAFT DID ATION OCCURRED SO I BOUT 2 INCHES." THE AID SHE DID NOT ADV F ROLL IMPROVED - G POWER - HIT THE GRO	NOT REACH ENRICHED T AIRCRAFT D ANCE THE TH OT UP TO 65	TAKEOFF HE MIXTUI ID NOT A ROTTLE A IAS - E D THROUG	SPEED. THE RE. THEN I CCELERATE LL THE WAY ND OF RUNWA H GRASS'	ΑY	

File No. - 1557 10/09/89 LAS VEGAS, NM A/C Reg. No. N6029S Time (Lcl) - 1440 MDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation TAKEOFF

Finding(s)

1. WEATHER CONDITION - HIGH DENSITY ALTITUDE

- 2. AIRSPEED (VLOF) NOT ATTAINED PILOT IN COMMAND 3. ABORTED TAKEOFF NOT PERFORMED PILOT IN COMMAND
- 4. CLIMB NOT POSSIBLE -
- 5. STALL/MUSH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO ABORT THE TAKEOFF, WHEN SHE FAILED TO ATTAIN SUFFICIENT SPEED WITHIN THE APPROPRIATE TAKEOFF. DISTANCE. A FACTOR RELATED TO THE ACCIDENT WAS: HIGH DENSITY ALTITUDE.

File No 1459 10/25/89 PENAS	CO,NM A/C Reg	. No. N93110	Tim	e (Lcl) - (730 MDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	L AVIATION) Aircraft		Fatal 0 2	Injurie Serious 1 2	es Minor 0 0	None 0 0
Aircraft Information Make/Model - CESSNA T210L Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3800 No. of Seats - 6	Eng Make/Model - CONT Number Engines - 1 Engine Type - RECI Rated Power - 2	INENTAL TSIO-520 P-FUEL INJECTED 85 HP	ELT In Sta	stalled/Act ll Warning	ivated - System -	YES/NO YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 160/005 KTS Visibility - 30.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 15000 FT BROKE	Itinerary Last Departure Point LOS ALAMOS,NM Destination LOCAL	NONE NONE	Airport Pr OFF AIRP Airport Da	oximity ORT/STRIP	- /-	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - AIRPLANE	Age - 46 M Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - UNK/NR	edical Certificate Flight Total - 990 Make/Model- UNI Instrument- UNI Multi-Eng - UNI	e - VALID M t Time (Hou) K/NR K/NR K/NR	EDICAL-NO W rs) Last 24 H Last 30 D Last 90 D Rotorcraf	VAIVERS/L Trs - UNK Lays- UNK Lays- 50 t - UNK	IMIT /NR /NR /NR
	VINDS ALOFT. THE WINDS AT 900 NOT FLOWN IN MTNS AROUND PENA NORTH OF JICARITA PEAK, THE IMPACT PART FAILURE/MALFUNCTILYING SVRL HUNDRED FT ABOVE THE ACONT. ONE WITNES TO 140 KTS, WHEN IT BEGAN DSC	0 & 12,000 FT WERE SCO, EXCEPT TO FLY ACFT HIT TREES, (ON OF THE ACFT WAS HE TREELINE, THE (S NOTED A STORM WA NDG. HE COULD NOT	E FORECAST OVER THEM CRASHED & B FOUND. TW OTHER ESTIM AS APCHG IN RECALL THE	TO VARY BET AT HIGH AL URNED ON RI O WITNESSES ATED IT WAS THE DISTAN	TITUDE. SING SAW AT CE.	

File No. - 1459 10/25/89 PENASCO, NM

A/C Reg. No. N93110 Time (Lcl) - 0730 MDT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING

Finding(s)

- 1. WIND INFORMATION NOT OBTAINED PILOT IN COMMAND
- 2. TERRAIN CONDITION MOUNTAINOUS/HILLY
- 3. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 4. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION PILOT IN COMMAND
- 5. TERRAIN CONDITION RISING
- 6. WEATHER CONDITION DOWNDRAFT
- 7. ALTITUDE INADEQUATE PILOT IN COMMAND
- 8. OBJECT TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER INFLIGHT PLANNING/DECISION BY THE PILOT, AND HIS FAILURE TO MAINTAIN SUFFICIENT ALTITUDE OVER MOUNTAINOUS TERRAIN. FACTORS RELATED TO THE ACCIDENT WERE: FAILURE OF THE PILOT TO OBTAIN (AND/OR UNDERSTAND) WIND ALOFT INFORMATION, HIS LACK OF FAMILIARITY WITH THE TYPE OF OPERATION (MOUNTAIN FLYING), A DOWNDRAFT, AND THE TERRAIN CONDITIONS.

File No 1454 10/02/89 NIXON	,NV A/C Reg. No. N21	55G Time (Lcl) - 0530 PDT
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 Damage DESTROYED Fire NONE	Injuries Fatal Serious Minor None Crew 1 0 0 0 Pass 0 0 0 0
Aircraft Information Make/Model - CESSNA 182A Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2650 No. of Seats - 4	Eng Maka /Madal CONTINENTAL O	0-470-L ELT Installed/Activated - YES/NO Stall Warning System - YES CARBURETOR
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - IMC Wind Dir/Speed- 290/006 KTS Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- UNK/NR Precipitation - UNK/NR Condition of Light - DAWN	Itinerary Last Departure Point CAMERON PARK,CA Destination ELKO,NV ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - NONE	Airport Proximity OFF AIRPORT/STRIP Airport Data Runway Ident - N/A Runway Lth/Wid - N/A Runway Surface - N/A Runway Status - N/A
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 41 Medical Ce Biennial Flight Review Current - YES Total Months Since - 20 Make/M Aircraft Type - C-152 Instru	rtificate - VALID MEDICAL-NO WAIVERS/LIMIT Flight Time (Hours) - 305 Last 24 Hrs - 1 Odel- 146 Last 30 Days- UNK/NR ment- 3 Last 90 Days- 28 Eng - 0 Rotorcraft - 0
AT ABOUT 0430 PDT, THE NON-INSTRUMENT RATED E WORK BETWEEN 0700 & 0730. WHILE EN ROUTE, THE ELEVATION OF ABOUT 4800'. IMPACT OCCURRED AT WHILE IN A LEFT WING LOW, NOSE LOW ATTITUDE. WITH WX CELLS MOVING FROM SOUTHWEST TO NORTHE 1000' SCATTERED, 3200' OVERCAST, VISIBILITY 8 OF THE ACFT OR ENG WAS FOUND. RADAR DATA SHOW 8,300' MSL, WITH A DESCENT RATE OF UP TO 2900	ACFT CRASHED ON NEARLY LEVEL TERRAIN, DAWN. AN EXAM OF THE WRECKAGE REVEALED A WX STUDY SHOWED CLOUDS EXISTED IN TH AST. APRX 35 MI WEST-SOUTHWEST AT RENO MI, WIND FROM 290 DEG AT 6 KTS. NO PR ED THAT JUST BEFORE IMPACT, THE ACFT'S	NEAR THE BASE OF A MTN, AT AN THE ACFT CRASHED AT HIGH SPEED, E AREA FROM 6000' TO 15,000' MSL (ELEV 4412'), THE WX WAS (IN PART) EIMPACT PART FAILURE OR MALFUNCTION ALTITUDE VARIED FROM 12,500' TO

File No. - 1454 10/02/89 NIXON, NV A/C Req. No. N2155G Time (Lcl) - 0530 PDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE - NORMAL Finding(s) 1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 2. LIGHT CONDITION - DAWN 3. WEATHER CONDITION - CLOUDS 4. WEATHER CONDITION - LOW CEILING 5. VFR FLIGHT INTO IMC - CONTINUED - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation CRUISE - NORMAL Finding(s) 6. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation DESCENT - UNCONTROLLED

7. SPATIAL DISORIENTATION - PILOT IN COMMAND

Finding(s)

8. TERRAIN CONDITION - HIGH TERRAIN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: CONTINUED FLIGHT BY THE NON-INSTRUMENT RATED PILOT INTO INSTRUMENT METEOROLOGICAL CONDITIONS (IMC), AND HIS FAILURE TO MAINTAIN CONTROL OF THE AIRCRAFT, DUE TO SPATIAL DISORIENTATION. INADEQUATE PREFLIGHT PREFLIGHT PLANNING/PREPARATION BY THE PILOT, AND THE WEATHER AND LIGHT CONDITIONS AT EARLY DAWN WERE FACTORS.

None
1 0
l - YES/YI n - YES
MIT
5 .5 80 6

File No. - 1585 2/10/89 BALLSTON SPA,NY A/C Reg. No. N758PW Time (Lcl) - 1720 EST

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF
Phase of Operation DESCENT - NORMAL

Finding(s)

1. ENGINE ASSEMBLY, BEARING - WORN
2. ENGINE ASSEMBLY, CONNECTING ROD - 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)

3. TERRAIN CONDITION - NONE SUITABLE

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
WORN CONNECTING ROD BEARING(S), AND FAILURE OF THE #1 CONNECTING ROD. A FACTOR RELATED TO THE ACCIDENT WAS: THE LACK OF
SUITABLE TERRAIN FOR AN EMERGENCY LANDING.

----Probable Cause----

File No 1542 2/22/89 SPRING	VALLEY, NY A/C Reg	. No. N5793P	T:	ime (Lcl) -	· 1140 EST	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING						None 0 0
Aircraft Information Make/Model - AEROSPATIALE AS-350D Landing Gear - HIGH SKID Max Gross Wt - 4300 No. of Seats - 5						
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 - N/A Lowest Ceiling - 1700 FT OVERC. Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT		NONE VFR	Airport I ON AIRI Airport I SPRING Runway Runway Runway Runway			
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND HELICOPTER		edical Certificat Fligh Total - 61 Make/Model- 15 Instrument- Multi-Eng -	e - VALID t Time (Ho 94 38 335 120	MEDICAL-NC Durs) Last 24 Last 30 Last 90 Rotorcr	WAIVERS/I Hrs - 1 Days- 17 Days- 67 aft - 6	LIMIT
Instrument Rating(s) - AIRPLANE, HELDNarrative THE PIC & AN FAA EXAMINER (F/E) WERE ON A PART INTENTIONS OF A PWR RECOVERY WAS INITIATED BY ' OUT OF THE FULL PWR DETENT, THEN THE PIC LWRD ' AGL & 65 KTS, THE PWR LEVER WAS PSND BACK TO THE FLARE WITH COLLECTIVE PITCH CTL, BUT THE ENG LE TAIL ROTOR STRUCK A MOUND OF DIRT, BOTH TAIL ROTE REST. INV REVEALED THE GOVERNOR ANTICIPATOR WOLL COULD TAKE 9 SEC TO SPOOL UP. FLT MANUAL ADDRES RESTRICTED PWR RCVRY TO 200' AGL. NO MECH STOP	135 CHECK FLT. AT ABOUT 90 THE F/E. THE F/E INITIATED T THE COLLECTIVE & BGN THE A/F HE FULL FWD (PWR LOCKED) DET ACKED RESPONSE. THE PIC CONT DTOR BLADES SEPD, THEN THE H JLD NOT HAVE ACTIVATED UNTIL SSED ONLY FULL STOP (A/R) LN	0' TO 1000' AGL, HE A/R BY MOVG TH (REVERSE ORDER O' ENT PSN. AT ABT 6 D THE A/R TO TOUC ELICOPTER ROLLED COLLECTIVE PITCH DGS. MANUAL FOR A	E PWR LEVE F FLT MAN 5' AGL, TE HDOWN. DRO ON ITS RGT WAS APPLI EROSPATIAI	ER (FUEL FI PROC). AT HE PIC INIT THE LNDG, T SIDE & CA HED. ALSO, L INSTRUCTO	OW CTL) ABT 400' IATED A THE ME TO THE ENG	

File No. - 1542 2/22/89

SPRING VALLEY, NY

A/C Reg. No. N5793P

Time (Lcl) - 1140 EST

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. FLIGHT MANUALS INFORMATION INSUFFICIENT MANUFACTURER
- 2. AUTOROTATION INITIATED -
- 3. PROCEDURES/DIRECTIVES NOT FOLLOWED CHECK PILOT
- LACK OF FAMILIARITY WITH AIRCRAFT CHECK PILOT
- 5. REMEDIAL ACTION IMPROPER PILOT IN COMMAND
- 6. LACK OF FAMILIARITY WITH AIRCRAFT PILOT IN COMMAND
- 7. TERRAIN CONDITION DIRT BANK

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE FAA FLIGHT EXAMINER (F/E) TO FOLLOW THE FLIGHT MANUAL PROCEDURE CONCERNING AUTOROTATIONS, AND IMPROPER REMEDIAL ACTION BY THE PILOT-IN-COMMAND (PIC). FACTORS RELATED TO THE ACCIDENT WERE: LACK OF INFORMATION IN THE FLIGHT MANUAL CONCERNING AUTOROTATIONS, BOTH PILOT'S LACK OF FAMILIARITY WITH THE AIRCRAFT, AND THE MOUND OF DIRT (DIRT BANK) IN THE EMERGENCY LANDING AREA.

⁻⁻⁻⁻Probable Cause----

File No 1496 3/09/89 BETHE		Reg. No. N2265X	Time (Lcl) - 2045 EST
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING			In Fatal Seriou 0 0 0 0	juries s Minor None 0 1 1 3
Aircraft Information Make/Model - CESSNA 337 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 4200 No. of Seats - 6	Number Engines - 2 Engine Type - Ri Rated Power -	CID_FILET INTECTED		d/Activated - YES/NO ning System - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- UNK/NR Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure Point ANOKA.MN	- IFR - NONE	Airport Proximit OFF AIRPORT/ST Airport Data Runway Ident Runway Lth/Wid Runway Surface Runway Status	RIP - N/A - N/A - N/A
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND Instrument Rating(s) - AIRPLANE	Age - 26 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - C-172	Medical Certificat Fligh Total - 87 Make/Model- 5 Instrument- Multi-Eng -	e - VALID MEDICAL t Time (Hours) 5 Last Last 90 Last 45	-NO WAIVERS/LIMIT 24 Hrs - 7 30 Days- 50 90 Days- 150
Narrative DURING A NIGHT CROSS COUNTRY FLIGHT FROM MINN FUEL AND BOTH ENGINES STOPPED RUNNING. SUBSEQ EMERGENCY LANDING AT NIGHT. HE RPRTED THAT WE STILL HAD FUEL REMAINING.	QUENTLY, THE AIRCRAFT CRASHE	D INTO TREES AS THE	PILOT WAS MAKING	AN

File No. - 1496 3/09/89 BETHEL, NY

A/C Req. No. N2265X

Time (Lcl) - 2045 EST

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation CRUISE - NORMAL

Finding(s)

1. PLANNING-DECISION - IMPROPER - 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 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING

Finding(s)

5. LIGHT CONDITION - DARK NIGHT

6. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT CONCERNING HIS FUEL MANAGEMENT, WHICH RESULTED IN FUEL EXHAUSTION DUE TO AN INADEQUATE SUPPLY OF FUEL. THE FALSE INDICATION FROM THE FUEL QUANTITY GAGE(S), DARK NIGHT, AND TREES WERE CONSIDERED TO BE FACTORS.

-Basic Information	O AIR TAXI	Aircraft Damage			Iniı	ıries	
Type Operating Certificate-ON-DEMAN Name of Carrier -U.S. CHE Type of Operation -NON SCHE Flight Conducted Under -14 CFR 1 Accident Occurred During -LANDING	CK, INC.),DOMESTIC,CARGO 35	SUBSTANTIAL Fire IN FLIGHT	Crew Pass	Fatal 0 0	Serious 0 0	Minor 0 0	None 1 0
-Aircraft Information Make/Model - SMITH AEROSTAR 600 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5500 No. of Seats - 6	Eng Make/Mod Number Engin		540-K1F5				
-Environment/Operations Information	Itinerary Last Departur TETERBORO, No Destination UNK/NR ATC/Airspace Type of Flight Type of Clear Type Apch/Lnde	J t Plan - IFR		Runway	ORT OATA COUNTY Ident Lth/Wid Surface	- UNK/NR - UNK/NR - UNK/NR - UNK/NR	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Instrument Rating(s) - AIRPLAN			rtificate Flight - 284 Model- UNK Ment- UNK	- VALID Time (Hc 0 /NR /NR /NR	MEDICAL-Wours) Last 2 Last 3 Last 9 Rotord	NAIVERS/LIM 24 Hrs - UN 30 Days- UN 90 Days- UN craft - UN	IT K/NR K/NR K/NR K/NR

4/06/89 A/C Reg. No. N90437 File No. - 1569 UTICA, NY Time (Lcl) - 0240 EDT

Occurrence #1

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation CRUISE

Finding(s)

1. REASON FOR OCCURRENCE UNDETERMINED

2. FUSELAGE, CREW COMPARTMENT - SMOKE

Occurrence #2 Phase of Operation FIRE

LANDING

Finding(s)

3. FUSELAGE, CREW COMPARTMENT - FIRE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A FIRE IN THE COCKPIT FROM AN UNKNOWN SOURCE.

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraf	t Damage		Inju	cies	
Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		YED Crew Pass	Fatal 0 0	Serious 0 0	Minor 1 0	None 0 0
Aircraft Information Make/Model - PIPER PA-28-140 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2050 No. of Seats - 4	Eng Make/Model - LY Number Engines - 1	CIPROCATING-CARBURE	ELT S	Installed/ <i>I</i> tall Warnin	Activated ng System	 - YES/N - YES
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 - UNK/NR Lowest Sky/Clouds - CLEAR	Itinerary	- NONE - NONE	OFF AIR Airport I ROYALTO RUNWAY RUNWAY RUNWAY		- 25 - 2530/ - ASPHALT	35
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 59 Biennial Flight Review Current - YES Months Since - 15 Aircraft Type - PA-28	Medical Certificate Flight Total - 77 Make/Model- 566 Instrument- Multi-Eng -	e - VALID Time (Ho 5 13 12	MEDICAL-WA ours) Last 24 Last 30 Last 90	AIVERS/LIM Hrs - 0 Days- 4 Days- 11	IT
Instrument Rating(s) - NONE Narrative			· · · · · · · · · · · · · · · ·			
PILOT SAID THAT HE PERFORMED A PREFLIGHT RUNNING AND THE AIRCRAFT FLEW INTO TREES FULL OF WATER. THE FUEL PUMPS AND FILTER	. AN INSPECTION REVEALED THA	AT THE CARBURETOR AN	ND GASCOL			

A/C Reg. No. N5266T File No. - 1590 7/02/89 Time (Lcl) - 1040 EDT GASPORT, NY Occurrence #1 LOSS OF ENGINE POWER Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. FLUID, FUEL - WATER 2. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING Finding(s) 3. OBJECT - TREE(S) ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL CONTAMINATION (WATER) AND AN INADEQUATE PREFLIGHT BY THE PILOT, WHICH RESULTED IN THE LOSS OF ENGINE POWER.

File No 1599 7/03/89 PLATT		Aircraft Damage			 Injur		
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Serious 0 0	Minor 0 0	None 1 0
-Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Number Eng. Engine Type	odel - LYCOMING 0-23 ines - 1 - RECIPROCATING - 110 HP	 5-L2C -CARBURET	ELT S	Installed/A tall Warnin	ctivated g	- YES/N - YES
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 140/005 KTS Visibility - UNK/NR Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS A Destination LOCAL ATC/Airspace Type of Fli Type of Cle	ght Plan - NONE		ON AIR Airport CLINTO Runway Runway Runway	Data N COUNTY Ident -	5000/ :	L00
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 34 Biennial Flight Re Current Months Since Aircraft Type	Medical Cereview - N/A Total - N/A Make/Mo - N/A Instrum	Fliabt	Time (H	MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotorer		
Instrument Rating(s) - NONE							
-Narrative STUDENT PILOT BOUNCED THE AIRCRAFT DURING NCE AND THE AIRCRAFT STARTED DRIFTING TO T SEOUENTLY, THE NOSE GEAR PARTIALLY COLLAPS	HE RIGHT, SO HE API	LIED LEFT RUDDER. TH	HE AIRCRA	FT THEN	VEERED TO T		

File No. - 1599 7/03/89 PLATTSBURGH, NY A/C Reg. No. N48683 Time (Lcl) - 1230 EDT 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 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 3. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 4. GROUND LOOP/SWERVE - UNCONTROLLED - PILOT IN COMMAND Occurrence #3 NOSE GEAR COLLAPSED Phase of Operation LANDING 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:
THE PILOT'S IMPROPER FLARE, IMPROPER RECOVERY FROM A BOUNCED LANDING, AND FAILURE TO MAINTAIN DIRECTIONAL CONTROL.

-Basic Information							
Type Operating Certificate-NONE (GENE	RAL AVIATION) Ai	rcraft Damage ESTROYED re ONE			Injur	ries	
		ESTROYED	_	Fatal	Serious	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fi	re	Crew	0	0	1	0
Flight Conducted Under -14 CFR 91	I.	ONE	Pass	0	0	0	4
Accident Occurred During -LANDING							
-Aircraft Information							
Make/Model - CESSNA 177A	Eng Make/Model	- LYCOMING 0-3	60	ELT	Installed/A	Activated	- YES/NO
Landing Gear - TRICYCLE-FIXED	Number Engines	- 1		S	Stall Warnir	o System	- YES
Max Gross Wt - 2500	Engine Type	- RECIPROCATING	G-CARBURE	ror		-5 -1	
Make/Model - CESSNA 177A Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2500 No. of Seats - 4	Rated Power	- 180 HP					
-Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - HNK/NR	Last Departure	Point			RPORT/STRIE	>	
Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - UNK/NR Wind Dir/Speed- 250/012 KTS	ONEONTA NV	LOTIFC		OLI AI	.ic oni, bini		
Completeness - UNK/ND	Destination			Airport	Data		
Basic Weather - UNK/NR	TOCKDODE MA			ATTPOTC	Data		
Wind Dir/Spood- 250/012 FTS	BOCKE OKI, NI			Dunway	Ident -	- NI / 7	
Wigibility - 15 0 SM	ATC /Aircasco			Punway	Lth/Wid -		
Visibility - 15.0 SM Lowest Sky/Clouds - UNK/NR	ATC/Airspace Type of Flight Type of Clearan Type Apch/Lndg	Dlan - NONE		Punyay	Surface -		
	Type of Flight	PIAN - NONE		Panara	Status -		
Lowest Ceiling -	Type of Clearan	Ce - NONE	NAID TAIC	Runway	Status -	N/A	
Obstructions to Vision- HAZE	Type Apcn/Lnag	- FORCED LA	ANDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information							
Pilot-In-Command	Age - 39	Medical Ce	ertificate	- VALID	MEDICAL-NO	WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Revie	W	Flight	: Time (H	lours)		
PRIVATE	Current - Y	ES Total	- 302	2	Last 24	Hrs - 4	
SE LAND	Months Since - 1	0 Make/N	Model- 99		Last 30	Days- 25	
	Aircraft Type - C	-177 Instru	ument-	69	Last 90	Days- 25	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND		Multi-	-Eng - UNE	K/NR	Rotorca	aft - UN	K/NR
Instrument Rating(s) - NONE							
PILOT WAS ON A RETURN FLIGHT TO NORTH B	שמסמדג מגממווסווס אוגיים	דאן ז הראטרטים איפיג	7 VADE AET	יבים כייזעד	NC OVER NIC	יוטיי דאז	
CITOI WAS ON A KEICKN FLIGHT TO NORTH B	THE TEET TAME DOCUMENT	TH LOCKFORI, NEV	A TOVV WE	TIAIC OU.	NG OVER NIG	TI OT	
ONTA, NEW YORK. THE FUEL SELECTOR WAS IN							
ICHED TO THE RIGHT TANK AND CONTACTED BU							
AIRPORT. WHEN IT WAS LANDED IN A CULTIV M REVEALED THERE WAS LESS THAN A CUP OF			AND THE	AIRCRAFT	MOSED OVER	. AN	
A REVEALED THERE WAS LESS THAN A CUP OF	COUL VEWAINING IN THE LO	EL SISTEM.					

File No. - 1600 7/09/89 AKRON, NY

A/C Reg. No. N3154T Time (Lcl) - 1954 EDT

Occurrence #1

LOSS OF ENGINE POWER (TOTAL) - NON-MECHANICAL

Phase of Operation CRUISE

Finding(s)

1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND

2. FLUID, FUEL - EXHAUSTION

3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND

Occurrence #2

FORCED LANDING

Phase of Operation LANDING

Occurrence #3 NOSE OVER

Phase of Operation LANDING

Finding(s)

4. 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, WHICH RESULTED IN FUEL EXHAUSTION, DUE TO AN INADEQUATE SUPPLY OF FUEL. A FACTOR RELATED TO THE ACCIDENT WAS: SOFT TERRAIN IN THE EMERGENCY LANDING AREA.

Basic Information		3					
Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Aircraft Damage SUBSTANTIAL Fire NONE	Pass	0	0	0	0
Aircraft Information Make/Model - PIPER PA-28R-201 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2750 No. of Seats - 4	Eng Make/M Number Eng Engine Typ Rated Powe	odel - LYCOMING IO ines - 1 e - RECIP-FUEL r - 200 HP	-360-C1C6	ELT I St	Installed/A all Warnin	activated ag System	- YES/N - YES
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 300/005 KTS Visibility - 15.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart EAST HADD Destination SAME AS A ATC/Airspace Type of Fli Type of Cle Type Apch/L	ure Point AM,CT CC/INC ght Plan - NONE arance - NONE ndg - TRAFFIC	PATTERN	Airport I ON AIRI Airport I MATTILU Runway Runway Runway Runway	Proximity PORT Data JCK Ident - Lth/Wid - Surface - Status -	- 01 - 2200/ - ASPHALT - DRY	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 67 Biennial Flight R Current Months Since Aircraft Type					•	IT
Narrative ING THE ROLL-OUT AFTER LANDING, THE RIGHT $IAY & THE PLANE COLLIDED WITH TWO PARKED IL.$							

Time (Lcl) - 1430 EDT File No. - 1586 8/03/89 MATTITUCK, NY A/C Reg. No. N1707H Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. LANDING GEAR, NORMAL BRAKE SYSTEM - FAILURE, PARTIAL 2. FLUID, HYDRAULIC - LEAK 3. DIRECTIONAL CONTROL - NOT POSSIBLE -4. GROUND LOOP/SWERVE - UNCONTROLLED -Occurrence #2 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 5. OBJECT - AIRCRAFT PARKED ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF RIGHT BRAKING ACTION DUE TO A HYDRAULIC LEAK.

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File No 1595 8/05/89 SHIRL	EY, NY A/C	Reg. No. N5084X	Time (Lcl) - 1015 EDT			
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -BANNER TOW Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	L AVIATION) Aircr SUBS Fire NONE	aft Damage TANTIAL Crev Pass	Fatal V 0 S 0	Inju Serious 0 0	ries Minor 1 0	None 0 0
Aircraft Information Make/Model - CHAMPION 7KCAB Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1650 No. of Seats - 2	Number Engines - Engine Type -	LYCOMING IO-320-E2A 1 RECIP-FUEL INJECTED 150 HP	St		Activated - ng System -	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed - 260/010 KTS Visibility - 8.0 SM Lowest Sky/Clouds - 15000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	SAME ÂS ACC/INC Destination LOCAL ATC/Airspace TERED Type of Flight Pla	n – NONE	Runway Runway	PORT Data EVENS Ident Lth/Wid -	- GRASS/TUF	₹F
	Age - 28 Biennial Flight Review Current - YES Months Since - 2 Aircraft Type - AA-5	Medical Certifica Flic Total - 1 Make/Model- 1 A Instrument- Multi-Eng -	nte - VALID yht Time (Ho .196 .63 239 7	MEDICAL-WA burs) Last 24 Last 30 Last 90	AIVERS/LIMI 1 Hrs - 4 0 Days- 73 0 Days- 208	т
Instrument Rating(s) - AIRPLANE						
Narrative HE AIRCRAFT DEPARTED RUNWAY 24 FOR A BANNER INDUNCED HIS INTENTIONS, THEN PICKED UP THE IRCRAFT ROCKED GENTLY LEFT AND RIGHT, BUT THUT THE ROCKING CONTINUED. HE THEN RELEASED TO	BANNER. AFTER THE PICKUP, E PILOT MAINTAINED A STRA	HE LOWERED THE NOSE IGHT FLIGHT PATH. HE	FOR A SHAI	LOWER CLIM	MB. THE RTHER,	

File No. - 1595 8/05/89 SHIRLEY,NY A/C Reg. No. N5084X Time (Lcl) - 1015 EDT

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

Finding(s)

1. LOAD JETTISON - DELAYED - PILOT IN COMMAND
2. AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND
3. STALL/MUSH - INADVERTENT - 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 FAILURE OF THE PILOT TO MAINTAIN PROPER AIRSPEED, AND HIS DELAY TO JETTISON THE BANNER, WHICH RESULTED IN A STALL.

File No 1528 9/18/89 AGANA	, GOAN, A/C	Reg. No. N8134		ime (Lcl)		
-Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PUBLIC USE Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	L AVIATION) Aircra DESTF Fire NONE	aft Damage ROYED	Fatal Crew 2 Pass 0	Inju Serious 0 0	Minor	None 0 0
-Aircraft Information Make/Model - HUGHES 269A Landing Gear - SKID Max Gross Wt - 1670 No. of Seats - 2	Eng Make/Model - I Number Engines - Engine Type - F Rated Power -	1 RECIP-FUEL INJE	5	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- 090/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - UNK/NR SCAT Lowest Ceiling - 25000 FT OVERG Obstructions to Vision- NONE Precipitation - RAIN SHOWERS Condition of Light - DAYLIGHT	NAS AGANA Destination LOCAL ATC/Airspace FERED Type of Flight Plan	- NONE - NONE - NONE	OFF AI Airport Runway Runway Runway Runway	/ Ident - / Lth/Wid - / Surface - / Status -	- N/A - N/A - N/A - N/A	
Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND HELICOPTER	Age - 42 Biennial Flight Review Current - YES Months Since - 5 Aircraft Type - 269C	Medical Cert	ificate - VALII Flight Time (F - 562 del- 40 nt- 13 g - 44	MEDICAL-NO	WAIVERS/	
Instrument Rating(s) - AIRPLANE, HEIGHT - Narrative HELICOPTER WAS BEING OPERATED ON A VISUAL LE FLYING AT ABOUT 200 FT ABOVE THE FONTE IN CROSSED THE RIVER. DURING IMPACT, THE MAPEREIMPACT MECHANICAL PROBLEM WAS EVIDENT.	LICOPTER RECONNAISSANCE/ORIENTATIO RIVER (FOLLOWING A VALLEY)	ON FLT WITH A P	LT & A POLICE A	GENT ABOARI). LINE	81

A/C Reg. No. N8134Y Time (Lcl) - 0936 GST File No. - 1528 9/18/89 AGANA, GUAM,

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING

Finding(s)

1. OBJECT - WIRE, TRANSMISSION

2. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE VISUAL LOOKOUT BY THE PILOT, WHICH RESULTED IN HIS FAILURE TO SEE-AND-AVOID THE POWER LINE. THE POWER LINE WAS A RELATED FACTOR.

File No 1451 12/07/89 ATLA	NTIC OCEAN,	A/C Reg. No. N8785B Time (Lcl) - 1348 AST				
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION)	Aircraft Damage DESTROYED Fire NONE	Fatal Crew 0 Pass 1	Injur Serious 0 0	ries Minor 1 0	None 0 0
Aircraft Information Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2075 No. of Seats - 4						· YES/YES · YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - IN PERSON Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 290/011 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 3500 FT SCA Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 38 Biennial Flight Revi Current - Months Since - Aircraft Type -	Medical Cert .ew YES Total 23 Make/Mod C-172 Instrume	ificate - VALI Flight Time (- 3500 el- 1200 nt- 360	ID MEDICAL-NO (Hours) Last 24 Last 30 Last 90	WAIVERS/L Hrs - 5 Days- 25 Days- 60	IMIT
Instrument Rating(s) - AIRPLANE Narrative DURING AN OVERWATER FLIGHT, ABOUT 20 MI SOUTH PLT TRANSMITTED A DISTRESS MESSAGE (MAYDAY), A SHORT TIME LATER, THE ENG SEIZED & THE ACF' EGRESSED FROM THE ACFT AS IT SANK & INFLATED POSITION & THEY TRIED TO SIGNAL FOR HELP, BUT DIED BEFORE REACHING IT. AFTER REACHING THE INVAS NOT RECOVERED FROM THE OCEAN.	HEAST OF MAYAGUANA ISI WHICH WAS FORWARDED I I WAS DITCHED APPROXIM THEIR LIFE JACKETS. I I THEY WERE NOT SIGHTE	AND, THE OIL PRESSU TO THE COAST GUARD, IATELY 15 MI FROM SH THEY SAW SEVERAL COA CD. THEY SWAM TOWARD	& CONTINUED TO ORE. THE PLT & ST GUARD ACFT THE SHORE, BU	WARD THE ISL HIS PASSENG FLY OVER THE T THE PASSEN	AND. ER IR GER	

File No. - 1451 12/07/89 ATLANTIC OCEAN, A/C Reg. No. N8785B Time (Lcl) - 1348 AST

Occurrence #1 LOSS OF ENGINE POWER Phase of Operation CRUISE - NORMAL

Finding(s)
1. FLUID,OIL - STARVATION

Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY

Occurrence #3 DITCHING LANDING

Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE ENGINE SEIZED FROM OIL STARVATION (LACK OF OIL OR OIL PRESSURE), WHICH RESULTED IN THE AIRCRAFT BEING DITCHED AT SEA.

File No 1472 4/15/89 GRATI	S,OH	A/C Reg. No. N7	57нЈ	Time (Lc.	l) - 1700 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING			F Crew Pass	atal Serio 0 0 0 0	njuries us Minor 0 0	None 2 0
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1650 No. of Seats - 2	Eng Make/Mod Number Engir Engine Type	del - LYCOMING 0-2; des - 1 - RECIPROCATING	35-L2C G-CARBURETOR	ELT Install Stall Wa:	ed/Activated	- YES/NO - YES
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 - 7.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 4000 FT BROK Obstructions to Vision- NONE Precipitation - NONE	Itinerary Last Departur DAYTON,OH Destination LOCAL ATC/Airspace Type of Fligh Type of Clear Type Apch/Lnd	re Point at Plan - NONE rance - NONE g - PRECAUTIO	Ai 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G	- N/A d - N/A e - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND Instrument Rating(s) - AIRPLANE	Age - 34 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical Ceriew UNK/NR Total UNK/NR Make/N UNK/NR Make/N UNK/NR Instru	ertificate - Flight T. - 2280 Model- UNK/NI Iment- UNK/NI -Eng - UNK/NI	VALID MEDICAI ime (Hours) Last R Last R Last R Roto	L-NO WAIVERS/ 24 Hrs - UN 30 Days- UN 90 Days- UN prcraft - UN	LIMIT K/NR K/NR K/NR K/NR
Instrument Rating(s) - AIRPLANENarrative THE INSTRUCTOR PLT (CFI) RPRTD HE ELECTED TO DRG THE LANDING, THE ACFT ENCOUNTERED SOFT DI ENG REVEALED THERE WAS A BIRD'S NEST IN THE V SOURCE OF SMOKE OR FIRE WAS FOUND. ACCORDING HIDDEN, BUT IT COULD HAVE BEEN SEEN DRG A PRE PREFLIGHTED THE ACFT, BUT NEITHER SAW THE BIR	MAKE A PRECAUTIONARY RT & NOSED OVER, DAM ICINITY OF THE #2 & TO AN FAA INSPECTOR, FLIGHT INSPECTION WI	LANDING AFTER HE AGING THE VERTICAI #3 CYLINDERS. NO E WHO EXAMINED THE	SMELLED SMOD STABILIZER EVIDENCE OF A ACFT, THE N	KE IN THE COCH . AN EXAM OF TANY OTHER POSSEST WAS PARTIA	RPIT. CHE SIBLE ALLY	

File No. - 1472 4/15/89 GRATIS, OH

A/C Reg. No. N757HJ Time (Lcl) - 1700 EDT

Occurrence #1 NOSE OVER Phase of Operation LANDING

Finding(s)

1. ENGINE COMPARTMENT - FOREIGN OBJECT

- 2. AIRCRAFT PREFLIGHT INADEQUATE DUAL STUDENT
- 3. AIRCRAFT PREFLIGHT INADEQUATE PILOT IN COMMAND (CFI)
- 4. ENGINE COMPARTMENT SMOKE
- 5. PRECAUTIONARY LANDING PERFORMED -
- 6. TERRAIN CONDITION SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FOREIGN MATERIAL (BIRD NEST) IN THE ENGINE COMPARTMENT, AND FAILURE OF THE DUAL STUDENT OR INSTRUCTOR PILOT (CFI) TO IDENTIFY AND REMOVE IT DURING THEIR PREFLIGHT INSPECTION OF THE AIRCRAFT. SOFT TERRAIN IN THE EMERGENCY LANDING AREA AND SMOKE FROM THE ENGINE COMPARTMENT WERE FACTORS.

File No 1442 6/18/89 ALBAN	Y, OH	A/C Reg. No. N4	0973	Ti	me (Lcl) -	0824 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 1 2	ies Minor 0 1	None 0 0
Aircraft Information Make/Model - PIPER PA-28 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2150 No. of Seats - 4	Eng Make/Mo	del - LYCOMING 0-3: nes - 1 - RECIPROCATING - 150 HP	20-E3D G-CARBURETO	ELT I St DR	nstalled/A		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 200/003 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 25000 FT THIN Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departu SAME AS AC Destination CINCINNATI	re Point C/INC ,OH	F.	Airport F OFF AIR Airport D OHIO UN Runway Runway Runway	roximity PORT/STRIP ata IVERSITY Ident - Lth/Wid - Surface - Status -	4200/ 1 ASPHALT	00
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 36 Biennial Flight Re Current Months Since Aircraft Type	Medical Co view - YES Total - 1 Make/N - PA-28 Instru Multi-	ertificate Flight - 147 Model- 143 ument- UNK/	- VALID Time (Ho /NR /NR	MEDICAL-NO urs) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/L Hrs - UNK Days- UNK Days- 9 aft - UNK	IMIT /NR /NR /NR
Instrument Rating(s) - NONE Narrative DRG THE INITIAL CLIMB AFTER TAKEOFF, A PARTIA TO RETURN TO THE ARPT, HE SELECTED THE ONLY A AREA WAS BORDERED BY TREES & 30 FT POWER LINE SUBSEQUENTLY, THE ACFT SLID INTO ANOTHER TREE IN THE OPEN POSITION & ITS RESPECTIVE PUSH RO	VAILABLE LANDING SI S. JUST BEFORE TOUC & A FENCE. AN EXAM	re, which was about HDOWN, THE RIGHT W	r 300 ft Lo ING SEVERED	ONG & 200 LEAVES	WIDE. THIS FROM A TREE	S E.	

File No. - 1442 6/18/89 ALBANY, OH A/C Reg. No. N40973 Time (Lcl) - 0824 EDT Occurrence #1 LOSS OF ENGINE POWER (PARTIAL) - MECH FAILURE/MALF Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. ENGINE ASSEMBLY, PUSH ROD - BENT 2. ENGINE ASSEMBLY, VALVE, EXHAUST - SEIZED Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 3. TERRAIN CONDITION - NONE SUITABLE 4. OBJECT - TREE(S) Occurrence #4 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING Finding(s) 5. OBJECT - FENCE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: SEIZURE OF THE #4 EXHAUST VALVE AND BENDING OF ITS RESPECTIVE PUSH ROD, WHICH RESULTED IN A SIGNIFICANT LOSS OF ENGINE POWER. CONTRIBUTING FACTORS WERE: LACK OF A SUITABLE EMERGENCY LANDING AREA, TREES, AND THE FENCE.

File No 1563 6/18			eg. No. N49JC	T	ime (Lcl) -	1100 EDT	
Basic Information Type Operating Certificate- Type of Operation - Flight Conducted Under - Accident Occurred During -	NONE (GENERAL AVIA CONTEST 14 CFR 91			Fatal 0 0	Injuri Serious 0 0	ies Minor 0 0	None 1 0
-Aircraft Information Make/Model - COX/PITTS S Landing Gear - TAILWHEEL-A Max Gross Wt - 1150 No. of Seats - 1	PECIAL S-1S LL FIXED	Eng Make/Model - LY Number Engines - 1 Engine Type - RE Rated Power -	CIP-FUEL INJECTED	ELT :	Installed/Actall Warning	ctivated o	- NO -N/ - NO
-Environment/Operations Inform Weather Data Wx Briefing - NO RECORD Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed - 250/005 K Visibility - 10.0 Lowest Sky/Clouds - Lowest Ceiling - N Obstructions to Vision- N Precipitation - N Condition of Light - D	TS SM 4200 FT SCATTERED ONE ONE	TC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	Runway Runway Runway	PORT Data AIRPARK Ident - Lth/Wid -	2930/ ASPHALT	50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL, CFI SE LAND, ME LAND	M A	· 24 ial Flight Review current - YES Nonths Since - 10 ircraft Type - S-2B	Medical Certificat Fligh Total - 25 Make/Model- 18 Instrument- Multi-Eng -	e - VALID t Time (Ho 00 0 475 700	MEDICAL-NO burs) Last 24 Last 30 Last 90 Rotorcra	•	
Instrument Rating(s)Narrative PILOT WAS COMPLETING A LANDIN FACED RUNWAY & ONTO SOFT TERRA	G, WHEN HE ALLOWED				FF THE HARD		

File No. - 1563 6/18/89 ALLIANCE, OH A/C Reg. No. N49JC Time (Lcl) - 1100 EDT

Occurrence #1 NOSE OVER Phase of Operation LANDING - ROLL

Finding(s)

1. TERRAIN CONDITION - SOFT

2. PROPER ALIGNMENT - 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 MAINTAIN PROPER RUNWAY ALIGNMENT. THE SOFT TERRAIN WAS A RELATED FACTOR.

File No 1445 12/28/89 CHILL	ICOTHE,OH A/C Reg. No. N364		ne (Lcl) - 1535 EST	1
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -INSTRUCTIONA Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraft Damage SUBSTANTIAL Fire NONE	Fatal Crew 0 Pass 0		None 1 0
Aircraft Information Make/Model - AERONCA 11AC Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1250 No. of Seats - 2	Eng Make/Model - CONTINENTAL A-0 Number Engines - 1 Engine Type - RECIPROCATING-0 Rated Power - 65 HP			- YES/YES - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 240/007 KTS Visibility - 12.0 SM Lowest Sky/Clouds - 2500 FT SCAT Lowest Ceiling - UNK/NR Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary	Airport Pr	coximity	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Biennial Flight Persion	Flight Time (Hor	MEDICAL-NO WAIVERS/ urs) Last 24 Hrs - UN Last 30 Days- UN Last 90 Days- UN Rotorcraft -	
Instrument Rating(s) - NONE Narrative THE STUDENT PILOT STATED THAT WHEN HE DEPARTE ALTHOUGH THE WEATHER WAS COLD, IT WAS SUNNY & AIRWORK IN THE LOCAL AREA FOR ABOUT AN HOUR, HE REPORTED THAT HIS LANDING WAS NORMAL, BUT HE WAS UNABLE TO MAINTAIN CONTROL. THE ACFT V TERRAIN. THE PLT STATED THAT THE SKY HAD CLOU	O THE ARPT, THE WX & RWY CONDITIONS WERE THE COMPACTED SNOW ON THE RUNWAY WAS METER RETURNED TO THE ARPT, INTENDING TO AS THE ACFT DECELERATED ON THE RUNWAY, SERED OFF THE LEFT SIDE OF THE RUNWAY &	E FAIR TO GOOD. HE ELTING. THE STUDEN PRACTICE TAKEOFFS IT ENCOUNTERED AN NOSED OVER ON SNO	NOTED THAT T PRACTICED & LANDINGS. ICY AREA & W COVERED	.
PREVIOUSLY MELTED SNOW ON THE RUNWAY HAD "GLA		i. WIEN HE REIURNE	, IIIE	

File No. - 1445 12/28/89 CHILLICOTHE, OH

A/C Reg. No. N3647E Time (Lcl) - 1535 EST

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

Finding(s)

1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND

- 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. PROPER ALIGNMENT NOT POSSIBLE PILOT IN COMMAND
- LACK OF TOTAL EXPERIENCE IN TYPE OPERATION PILOT IN COMMAND

Occurrence #2

NOSE OVER

Phase of Operation LANDING - ROLL

Finding(s)

7. TERRAIN CONDITION - SNOWBANK

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE STUDENT PILOT, WHICH RESULTED IN A LANDING ON A SLICK RUNWAY, AND HIS FAILURE TO MAINTAIN DIRECTIONAL CONTROL DURING THE LANDING, WHICH RESULTED IN HIS INABILITY TO MAINTAIN RUNWAY ALIGNMENT. CONTRIBUTING FACTORS WERE: THE ICY/SNOW COVERED RUNWAY, SNOW COVERED TERRAIN BESIDE THE RUNWAY, AND THE STUDENT'S LACK OF EXPERIENCE IN WINTER OPERATIONS.

File No 1453 2/26/89 MARIE	TTA,OK A/C R	eg. No. N734DR	Tin	me (Lcl) -	1300 CST	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraf SUBSTA Fire NONE		Fatal 0 0	Injuri Serious 0 0	es Minor 0 0	None 1 3
Aircraft Information Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4		COMING O-320-E2D CIPROCATING-CARBURE 150 HP	ELT Ir Sta FOR	nstalled/Ac all Warning	tivated - System -	- YES/NO - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 045/012 KTS Visibility - 5.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 3500 FT OVER Obstructions to Vision- NONE Precipitation - NONE	Itinerary Last Departure Point DECATUR,TX Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan CAST Type of Clearance Type Apch/Lndg	- NONE - NONE - FULL STOP	Airport Pr ON AIRST Airport Da MCGEHEE Runway I Runway I Runway S Runway S	coximity FRIP Ata CATFISH Ident - Lth/Wid - Surface - Status -	17 2450/ GRASS/TUF DRY	60 EF
Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 24 Biennial Flight Review Current - YES Months Since - 5 Aircraft Type - C-172	Medical Certificate Flight Total - 91 Make/Model- 18 Instrument- Multi-Eng -	e - VALID N Time (Hou 2 0	ÆDICAL-NO irs) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/I Hrs - 2 Days- 2 Days- 10 ft -	JIMIT
Instrument Rating(s) - NONE Narrative DRG ARRIVAL, THE PLT FOLLOWED ANOTHER ACFT THE THAT RWY; HOWEVER, HE NOTICED THE ACFT WAS HIT THE GROUND SPEED SEEMED TO BE FASTER THAN THE WAS UNABLE TO STOP ON THE RWY. SUBSEQUENTLY, THEN NOSED OVER. THE PILOT ESTIMATED THE WIND	AT LANDED ON RWY 17. HE DID GH & FAST ON THE APCH, SO H INDICATED AIRSPEED, BUT HE THE ACFT CONTINUED OFF THE	NOT RECOGNIZE A QUA E WENT AROUND. ON THE CONTINUED THE LAND DEPARTURE END, HIT A	ARTERING TA HE 2ND APCH ING. DRG TH A DITCH & A	AILWIND FOR H, HE NOTIC HE LANDING,	ED HE	

File No. - 1453 2/26/89 MARIETTA, OK A/C Reg. No. N734DR Time (Lcl) - 1300 CST Occurrence #1 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 1. WRONG RUNWAY - SELECTED - PILOT IN COMMAND 2. WEATHER CONDITION - TAILWIND 3. WEATHER CONDITION - GUSTS Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - DITCH Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 5. OBJECT - FENCE Occurrence #4 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 THE PROPER RUNWAY, WHICH RESULTED IN A DOWNWIND LANDING AND AN OVERRUN OF THE RUNWAY.

THE GUSTY TAILWIND, DITCH, AND RAILING (FENCE) WERE FACTORS.

File No 1538 4/26/89 EUFAU	LA,OK A/	A/C Reg. No. N8654N Time (Lcl) - 1720 CST					
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Airc SUB Fire NON	raft Damage STANTIAL E	Crew Pass	Fatal 0 0	Injur Serious 0 0	ries Minor 0 0	None 1 0
Aircraft Information Make/Model - PIPER PA-32-300 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3600 No. of Seats - 6		LYCOMING IO-540 1 RECIP-FUEL INJE 300 HP					- YES/YES - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 10.0 SM Lowest Sky/Clouds - 3500 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Po BENTONVILLE,AR Destination ARLINGTON,TX ATC/Airspace TERED Type of Flight Pl	int an - NONE		Airport : OFF AI Airport : Runway Runway Runway	Proximity RPORT/STRIP Data	- N/A - N/A - N/A	
	Age - 50 Biennial Flight Review Current - YES Months Since - 6 Aircraft Type - PA-	Medical Cert Total Make/Mod 32 Instrume Multi-Er	cificate Flight - 850 del- 603 ent- ng -	- VALID Time (Ho	MEDICAL-NC ours) Last 24 Last 30 Last 90 Rotorcr	MAIVERS/I Hrs - 3 Days- 12 Days- 44	JIMIT
Instrument Rating(s) - AIRPLANE Narrative E PLT RPRTD THE ACFT WAS FULLY SVCD WITH FU NTONVILLE, AR. WHILE CRUISING AT 8500' ON T ERGENCY FUEL PUMP ON & SWITCHED TANKS, THEN ERGENCY LANDING MAS MADE ON ROUGH TERRAIN (UND POSITIONED TO THE LEFT MAIN TANK. THE L AINED FROM THE LEFT TANKS. NO FUEL WAS FOUN RMALLY WITH ONLY MINOR REPAIR.	EL BEFORE HE DEPARTED ON HE RTRN FLT, THE ENG LOS TURNED THE PUMP OFF; TH ABOUT 3 MI FM THE ARPT) EFT WING WAS DAMAGED DUR	A X-COUNTRY FLT T POWER. THE PLT E ENG DID NOT RE & THE ACFT WAS I ING THE LANDING	FM ARL FRPRTD ESTART, DAMAGED. & AN ES	INGTON, 'THAT HE 'SUBSEQUE'THE FUE'TIMATED	IX, TO IURNED THE NTLY, AN L SELECTOR 35 GAL OF F	WAS 'UEL	

File No. - 1538 4/26/89 EUFAULA, OK A/C Reg. No. N8654N Time (Lcl) - 1720 CST ______ Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL 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 - NOT FOLLOWED - PILOT IN COMMAND Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - ROUGH/UNEVEN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER POSITIONING OF THE FUEL SELECTOR, WHICH RESULTED IN A LOSS OF POWER DUE TO FUEL STARVATION, AND HIS FAILURE TO FOLLOWED THE EMERGENCY PROCEDURE. A FACTOR RELATED TO THE ACCIDENT WAS: ROUGH TERRAIN IN THE EMERGENCY LANDING AREA.

File No 1537 11/25/89 SH	AWNEE, OK	A/C Reg. No. N25	53F	T	ime (Lcl) -	1400 CST	
-Basic Information Type Operating Certificate-NONE (GENE Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF					Injur Serious 0 0	ies Minor 0 0	None 1 1
-Aircraft Information Make/Model - CHAMPION 7ECA Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1650 No. of Seats - 2	Eng Make/Model Number Engines Engine Type Rated Power	- CONTINENTAL O - 1 - RECIPROCATING - 100 HP	-200-A	ELT S	Installed/A tall Warnin	ctivated - g System -	- YES/NO - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 240/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 12000 FT SC Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary ING Last Departure F SAME AS ACC/IN Destination GUTHRIE,OK ATC/Airspace CATTERED Type of Flight F	Point NC Plan - NONE ce - NONE	A.	OFF AI irport Runway Runway Runway	Proximity RPORT/STRIP Data Ident - Lth/Wid - Surface - Status -	N/A N/A N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 56 Biennial Flight Review Current - YN Months Since - 4 Aircraft Type - 7N	Medical Ce V ES Total Make/M ECA Instru Multi-	rtificate Flight 9 - 6000 odel- 560 ment- UNK/1 Eng - UNK/1	- VALID Fime (H NR NR	MEDICAL-NO ours) Last 24 Last 30 Last 90 Rotorcr		
		BECAUSE OF TREES					

File No. - 1537 11/25/89 A/C Reg. No. N2553F SHAWNEE, OK Time (Lcl) - 1400 CST

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

Finding(s)

- 1. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 2. MANEUVER INITIATED PILOT IN COMMAND
- 3. AIRSPEED INADEQUATE PILOT IN COMMAND
- 4. STALL INADVERTENT PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN ADEQUATE AIRSPEED DURING THE TURN AFTER TAKEOFF, WHICH RESULTED IN A STALL. THE OBSTRUCTIONS (TREES) WERE A FACTOR.

File No 1562 3	/06/89 3	OHNSTOWN, PA	A/C Reg.	No. N45861		Fime (Lcl) -	0925 EST	
-Basic Information Type Operating Certifica Name of Carrier Type of Operation Flight Conducted Under Accident Occurred During	te-ON-DEMAN -CENTRE A -NON SCHE -14 CFR 1 -LANDING	ID AIR TAXI IIRLINES ID,DOMESTIC,CARGO 35	Aircraft D SUBSTANTI Fire NONE	amage AL C P	Fatal rew 0 ass 0	Injur Serious 0 0	ies Minor 0 0	None 1 0
-Aircraft Information Make/Model - BEECH TC Landing Gear - TRICYCLE Max Gross Wt - 8625 No. of Seats - 10	–45J –RETRACTABI	Eng Make E Number E Engine T Rated Po	/Model - P&W R ngines - 2 ype - RECIP wer - 45	-985 ROCATING-CAR 0 HP	ELT BURETOR	Installed/A Stall Warnin	ctivated - g System -	- YES/N - YES
-Environment/Operations Inf Weather Data Wx Briefing - FSS Method - TELEPH Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- 050/01 Visibility7 Lowest Sky/Clouds - Lowest Ceiling - Obstructions to Vision Precipitation Condition of Light	ormation ONE 4 KTS 50 SM 300 FT 400 FT - FOG	Itinerary Last Depa PHILADE Destinati SAME AS ATC/Airspac SCATTERED Type of F BROKEN Type of C	rture Point LPHIA,PA on ACC/INC	FR FR	Airport ON AI Airport JOHNS Runwa Runwa	Proximity RPORT Data FOWN-CAMBRIA y Ident - y Lth/Wid - y Surface - y Status -	COUNTY 33 5486/ ASPHALT	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s ATP,CFI SE LAND,ME LAND Instrument Rating(s))	Months Since Aircraft Ty	Me Review - YES - UNK/NR pe - TC-45J	dical Certif F Total Make/Model Instrument Multi-Eng	icate - VALI light Time (- 8851 - 3075 - 985 - 5000	O MEDICAL-NO Hours) Last 24 Last 30 Last 90 Rotorera	WAIVERS/I Hrs - 2 Days- 69 Days- 190 aft - UNE	LIMIT
	- WIKETWI	£ .						

File No. - 1562 3/06/89

JOHNSTOWN, PA

A/C Reg. No. N45861 Time (Lcl) - 0925 EST

Occurrence #1 Phase of Operation LANDING - ROLL

NOSE GEAR COLLAPSED

Finding(s)

1. WEATHER CONDITION - SNOW

- 2. WEATHER CONDITION CROSSWIND
- 3. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION SNOW COVERED
- 4. LANDING GEAR, NOSE GEAR OVERLOAD
- 5. PROPER ALIGNMENT 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 MAINTAIN RUNWAY ALIGNMENT. THE CROSSWIND AND SNOW COVERED RUNWAY WERE RELATED FACTORS.

Basic Information Type Operating Certificat	a-ON-DEMAND ATP	ጥልሃፐ	Aircraft Damag			Inju	ries	
		IAXI	SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation Flight Conducted Under	-POSITIONING		Fire NONE	Crew	0	0	0 0	2
Accident Occurred During	-LANDING		NONE	Pass	U	U	U	U
Aircraft Information		T M-1 /M-	d. 1 Derr Duck					·
Make/Model - BEECH A10 Landing Gear - TRICYCLE-		Eng Make/Mo Number Engi	del - P&W PT6A- nes - 2	28			Activated – ng System –	
Max Gross Wt - 11500		Engine Type	- TURBOPROP		J	ourr murnir	ng cyccan	120
Max Gross Wt - 11500 No. of Seats - 10		Rated Power	- 1628 HP					
Invironment/Operations Info Weather Data					7	D		
Wx Briefing - FSS		Itinerary Last Departu	re Point		ON AIR	Proximity STRIP		
Wx Briefing - FSS Method - UNK/NR Completeness - WEATHER		WEST MIFFL	IN, PA					
Completeness - WEATHER Basic Weather - VMC	NOT PERTINENT	Destination	0 / 7330		Airport			
Wind Dir/Speed- 310/005	KTS	SAME AS AC	C/ INC		JOHNST	OWN Ident	- 33	
Wind Dir/Speed- 310/005 Visibility - 12.	0 SM	ATC/Airspace			Runway	Lth/Wid	- 5486/ 1	L 5 0
Lowest Sky/Clouds - Lowest Ceiling -	1200 FT SCATT	ERED Type of Flig	ht Plan - IFR		Runway	Surface	- ASPHALT	
Lowest Ceiling - Obstructions to Vision-	NONE	Type of Clea	rance - IFR dg - ILS-C	OMD T.F.TF	Runway	Status	- DRY	
Precipitation -		Type Apon/In	ag III C	OPH HETE				
Condition of Light -	DAYLIGHT							
Personnel Information Pilot-In-Command		7 may 25	Madiaa	l Certificat	- 1737 TD	MEDICAL W	7 TIMEDO /T TM1	
Certificate(s)/Rating(s)	;	age - 33 Biennial Flight Re	medica view	ı certiilcat Fligh	e - VALID t Time (H	MEDICAL-W.		.T
ATP		Age - 35 Biennial Flight Re Current	- YES To	tal - 62	45	Last 2	4 Hrs - 1	
SE LAND, ME LAND		Months Since	- 10 Mai - A100 In	ke/Model- 38	8	Last 3	0 Days- 20	
		Aircraft Type	- A100 In Mu	strument- lti-Eng -	421 2757	Last 9	0 Days- 74	
Instrument Rating(s)	- AIRPLANE							
Jarrative								
		NG GEAR COLLAPSED.						

File No. - 1561 3/22/89 JOHNSTOWN, PA A/C Reg. No. N23605 Time (Lcl) - 1020 EST

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

Finding(s)

1. LANDING GEAR, GEAR LOCKING MECHANISM - FAILURE, TOTAL

Occurrence #2 MAIN GEAR COLLAPSED
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 DOWN LOCK PLATE, WHICH ALLOWED THE LANDING GEAR TO COLLAPSE.

File No 1497 7/12/89 DO	YLESTOWN, PA	A/C Reg. No. N10	659 	Т.	ime (Lcl) -	1145 EDT	
Tile NO 1497 7/12/09 BO Basic Information Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	ERAL AVIATION) A	ircraft Damage SUBSTANTIAL ire NONE	Crew Pass	Fatal 0 0	Injur: Serious 1 0	ies Minor 0 0	None 0 1
Aircraft Information Make/Model - CESSNA 150L Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2	Number Engine	- RECIPROCATING		S.	Installed/Adtall Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEF Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 050/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 10000 FT St Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	DOYLESTOWN, F Destination SUSSEX, NJ	A Plan - VFR nce - NONE		ON AIR Airport DOYLES' Runway Runway Runway	Data IOWN	ASPHALT	50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 24 Biennial Flight Revi Current - Months Since - Aircraft Type -	Medical Ce: ew YES Total 5 Make/Mo PA-28 Instru Multi-N	Fliaht	Time (Ho	MEDICAL-WAI ours) Last 24 Last 30 Last 90 Rotorcra		
Instrument Rating(s) - NONE							
Narrative HE PLT RPRTD THAT DRG TAKEOFF, THE ACFT RI LOWLY DROPPING. HE DID NOT BELIEVE THE ACI AKEOFF. SUBSEQUENTLY, THE ACFT TOUCHED DON JER. RPRTDLY, THE FLAPS WERE IN A FULL DON	FT WOULD CLEAR TREES BEY WN, NOSEWHEEL FIRST, BET	OND THE END OF THE	E RWY, SO	HE ELEC	TED TO ABORT	THE	

File No. - 1497 7/12/89 DOYLESTOWN, PA

A/C Req. No. N10659 Time (Lcl) - 1145 EDT

Occurrence #1

IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation TAKEOFF - ABORTED

Finding(s)

- 1. AIRCRAFT PREFLIGHT IMPROPER PILOT IN COMMAND
- 2. LOWERING OF FLAPS IMPROPER PILOT IN COMMAND
- 3. PROPER CLIMB RATE NOT ATTAINED -
- 4. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 5. ABORTED TAKEOFF DELAYED PILOT IN COMMAND
- 6. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 7. FLARE NOT ATTAINED -

Occurrence #2 NOSE OVER

Phase of Operation TAKEOFF - ABORTED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PREFLIGHT PREPARATION BY THE PILOT BY TAKING OFF WITH THE FLAPS EXTENDED, WHICH RESULTED IN AN INADEQUATE RATE OF CLIMB TO CLEAR OBSTRUCTIONS BEYOND THE END OF THE RUNWAY, AND THE PILOT'S DELAY IN ABORTING THE TAKEOFF AND HIS FAILURE IN MAINTAINING AIRSPEED, WHICH REDUCED HIS ABILITY TO FLARE THE AIRCRAFT. THE HIGH OBSTRUCTIONS (TREES) NEAR THE END OF THE RUNWAY WERE CONSIDERED TO BE A FACTOR.

		Reg. No. N19652			2000 EDT	
-Basic Information Type Operating Certificate-NONE (Type of Operation -PERSON Flight Conducted Under -14 CFR Accident Occurred During -LANDIN	GENERAL AVIATION) Aircra SUBST AL Fire 91 NONE G					None 1 0
-Aircraft Information Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Eng Make/Model - L Number Engines -	YCOMING 0-320-E2D 1 ECIPROCATING-CARBURET	ELT In Sta	stalled/A		
-Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BR Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 005 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 4000 F Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary IEFING Last Departure Poin MT PLEASANT,PA Destination LOCAL ATC/Airspace T SCATTERED Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE	Runway I Runway L Runway S	RT ta ANT/SCOTT dent - th/Wid -	06 2000/ 1 GRASS/TUR	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 37 Biennial Flight Review Current - YES Months Since - 9 Aircraft Type - C172	Medical Certificate Flight Total - 100 Make/Model- 100 Instrument- Multi-Eng -	3	EDICAL-WA rs) Last 24 Last 30 Last 90	IVERS/LIMI Hrs - 1 Days- 1 Days- 6	

File No. - 1591 7/28/89 MT PLEASANT, PA A/C Reg. No. N19652 Time (Lcl) - 2000 EDT

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: AN IMPROPER FLARE BY THE PILOT THAT RESULTED IN A HARD LANDING.

Basic Information Type Operating Certificate-NONE (GEN	NERAL AVIATION) Aircraf	ft Damage		Injur	ies	
Basic Information Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTA Fire NONE	ANTIAL Crew Pass	Fatal 0 0	Serious 0 0	Minor 0 0	None 1 0
Aircraft Information Make/Model - CESSNA 305A Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2300 No. of Seats - 2	Eng Make/Model - CO	ONTINENTAL 0-470-11B	ELT I St		ctivated	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEF Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- Visibility - 3.000 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 1500 FT CO Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary FING Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan	- NONE	Airport I MOYER Runway Runway Runway	RPORT/STŘIP	13 2800/ GRASS/TU	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - AIRPLANE		Medical Certificate Flight Total - 75 R Make/Model- 90 Instrument- Multi-Eng - UNI	e - VALID : Time (Ho) 69 K/NR	MEDICAL-WA burs) Last 24 Last 30 Last 90 Rotorcr	IVERS/LIM Hrs - 1 Days- 9 Days- 25 aft - UN	IT K/NR
TLY AFTER TAKEOFF FROM A PRIVATE FIELD D WHERE IT NOSED OVER. AN ENGINE CHECK ERATURE AND DEW POINT WERE 72 DEGREES	WAS MADE AND NO MECHANICAL DI	VER, AND THE AIRCRAFT ISCREPANCIES WERE FOU	WAS LAND UND. THE P	DED IN A SO PHILADELPHI	Y BEAN A	

File No. - 1514 7/30/89 CHALFONT, PA A/C Reg. No. N5209G Time (Lcl) - 0900 EDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS 2. FUEL SYSTEM, CARBURETOR - ICE 3. CARBURETOR HEAT - IMPROPER USE OF - 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 - ROUGH/UNEVEN 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:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S IMPROPER USE OF CARBURETOR HEAT, WHICH RESULTED IN A POWER LOSS DUE TO CARBURETOR ICE. FACTORS RELATED
TO THE ACCIDENT WERE: CARBURETOR ICING CONDITIONS AND ROUGH/UNEVEN TERAIN IN THE EMERGENCY LANDING AREA.

-Basic Information Type Operating Certificate-	NONE (GENERAL AVI		 Damaαe		Iniu	ries	
Type Operating Certificate-I Type of Operation - Flight Conducted Under - Accident Occurred During -	LANDING	SUBSTANT Fire NONE	IAL Crew Pass	Fatal 0 0	Serious 0 0	Minor 0 0	None 1 1
-Aircraft Information Make/Model - SCHWEIZER 2 Landing Gear - SKID Max Gross Wt - 2050 No. of Seats - 2		Eng Make/Model - LYCOM Number Engines - 1 Engine Type - RECIM Rated Power - 1	P-FUEL INJECTED			Activated - ng System -	
-Environment/Operations Informations Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed - 060/005 KM Visibility - 20.0 M Lowest Sky/Clouds - CI Lowest Ceiling - NM Obstructions to Vision - NM Precipitation - NM Condition of Light - DA	IS EM LEAR DNE DNE	Itinerary Last Departure Point SAME AS ACC/INC Destination QUAKERTOWN, PA ATC/Airspace Type of Flight Plan - (Type of Clearance - I Type Apch/Lndg - I	COMPANY (VFR) NONE	Airport D Runway Runway Runway	PORT/STRI	- N/A - N/A - N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI HELICOPTER Instrument Rating(s) -	Age Bien	- 27 Me nial Flight Review Current - YES Months Since - 19 Aircraft Type - HU-300C	edical Certificate Flight Total - 230 Make/Model- 170 Instrument-	- VALID Time (Ho 0 0	MEDICAL-N urs) Last 2 Last 3 Last 9 Rotorc	O WAIVERS/I 4 Hrs - 5 0 Days- 70 0 Days- 220 raft - 2	LIMIT) 2290
	OING HELIPORT AT						

File No. - 1596 8/02/89 PHILADELPHIA, PA A/C Reg. No. N75044 Time (Lcl) - 0900 EDT

Occurrence #1 LOSS OF ENGINE POWER
Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

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

Finding(s)

2. TERRAIN CONDITION - WATER

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNKNOWN REASON. A FACTOR RELATED TO THE ACCIDENT WAS: WATER IN THE EMERGENCY LANDING AREA.

----Probable Cause----

File No 1589 8/10/89 MOUNT Basic Information		A/C Reg. No. N1			ime (Lcl) -	·100	
-Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	S AVIATION)	AIRCRAIT DAMAGE SUBSTANTIAL Fire NONE	Cre w Pass	Fatal 0 0	Serious 0 0	Minor 0 0	None 1 0
-Aircraft Information Make/Model - GRUMMAN AA-5 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2200 No. of Seats - 4	Number Engin Engine Type	el - LYCOMING 0-3 es - 1 - RECIPROCATIN - 150 HP		St	Installed/A tall Warnin	ctivated - g System -	- YES/N - YES
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 090/004 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Clear	/INC t Plan - NONE		UNK/NR Airport DONEGA Runway Runway Runway	Data L SPRINGS	ASPHALT	40
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 23 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical Co iew N/A Total N/A Make/I N/A Instr	Fliab	t Time /H	MEDICAL-NO ours) Last 24 Last 30 Last 90	•	
-Narrative ING A TOUCH-&-GO LANDING, THE STUDENT PLT N THE RWY & THAT HE PULLED BACK ON THE YOK T WING CONTACTED TALL CORN & THE ACFT CAME	TOO MUCH & STALLED	THE ACFT. THE A	HE FELT T	HAT THE AGED LEFT.	CFT WAS TOO SUBSEQUENT	FAR LY, THE	

A/C Reg. No. N1611R Time (Lcl) - 1820 EDT File No. - 1589 8/10/89 MOUNT JOY, PA

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation GO-AROUND (VFR)

Finding(s)

1. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND

2. GO-AROUND - DELAYED - PILOT IN COMMAND

3. TERRAIN CONDITION - CROP

4. 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 PILOT'S DELAY IN INITIATING A GO-AROUND, AND HIS FAILURE TO MAINTAIN PROPER RUNWAY ALIGNMENT. FACTORS RELATED TO THE ACCIDENT WERE: FAILURE OF THE PILOT TO ATTAIN THE PROPER TOUCHDOWN POINT AND THE CROP.

File No 1421 8/25/8		A/C Reg. No.	N6573R	Time (Lcl) -	1559 AST	
Basic Information Type Operating Certificate-NO Type of Operation -PE Flight Conducted Under -14 Accident Occurred During -MA	NE (GENERAL AVIATION) RSONAL CFR 91		Fata Crew 1 Pass 3	Injur l Serious 0 0	ies Minor 0 0	None 0 0
Aircraft Information Make/Model - BEECH C23 Landing Gear - TRICYCLE-RETRI Max Gross Wt - 2450 No. of Seats - 4	ACTABLE Number End	Model - LYCOMING (gines - 1 pe - RECIPROCAT er - 180 HP	D-360-A4J E.	LT Installed/A Stall Warnin		
Wind Dir/Speed- 090/012 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 140 Lowest Ceiling - NONI Obstructions to Vision- NONI Precipitation - NONI Condition of Light - DAYI	Itinerary F BRIEFING Last Depart SAN JUAN, Destination LOCAL ATC/Airspace OFT SCATTERED Type of Fli Type of Cle Type Apch/I	cure Point PR 1 .ght Plan - NONE earance - NONE Lndg - NONE	OFF Airpo: Run Run Run Run		N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) FOREIGN, PRIVATE SE LAND	Age - 33 Biennial Flight F Current Months Since Aircraft Type	Medical	Certificate - NOI Flight Time al - 250 te/Model- 5 trument- UNK/NR ti-Eng - UNK/NR	N-VALID MEDICA	L	
Instrument Rating(s) - NONarrative THE PLT (FM THE NETHERLANDS) WAS CHE THE PLT & 3 PAX TOOK OFF ON A LOCAL NORTH-SOUTH DIRECTION ON MOUNTAINOUS OF APRX 1100 FT. DRG IMPACT, THE ENC CHORDWISE SCRATCHES ON BOTH BLADES A RPRTD SEEING A SINGLE ENG ACFT FLYIN THEN THEY SAW SMOKE/FIRE FROM THE AC	CKED OUT IN THE ACFT BY AN FLT. SUBSEQUENTLY, THE ACFT S'HILLY TERRAIN). IMPACT OCG WAS BURIED IN DIRT & THE AS WELL AS S-CURLING. NO PRESIG LOW IN THE RAVINES (VALLE	CRASHED IN A RAVIURRED ON THE EAST CFT BEGAN BURNING IMPACT PART FAILURYS). SHORTLY THEF	VINE/VALLEY AREA (OPERN SLOPE OF THE VORTHE IN EXAM OF THE INTERMEDIATION WAS REAFTER, THEY HEARING THE THEY HEARING THE	ORIENTED IN A VALLEY AT AN EI PROP REVEALED S FOUND. WITNES O THE ACFT CRAS	LEV SSES SH,	

File No. - 1421 8/25/89 BARRANQUITAS, PR A/C Reg. No. N6573R Time (Lcl) - 1559 AST

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

Finding(s)

- 1. AIRCRAFT WEIGHT AND BALANCE EXCEEDED PILOT IN COMMAND
- 2. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 3. LOW PASS PERFORMED PILOT IN COMMAND
- 4. TERRAIN CONDITION RISING
- 5. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 6. STALL INADVERTENT PILOT IN COMMAND
- LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation DESCENT - UNCONTROLLED

Finding(s)

8. TERRAIN CONDITION - MOUNTAINOUS/HILLY

----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 FAILURE TO MAINTAIN ADEQUATE FLYING SPEED, WHICH RESULTED IN A STALL AND SUBSEQUENT IMPACT WITH THE TERRAIN. CONTRIBUTING FACTORS WERE: OPERATION OF THE AIRCRAFT BY THE PILOT WITH EXCESSIVE GROSS WEIGHT, HIS LACK OF EXPERIENCE IN THIS MAKE AND MODEL OF AIRCRAFT AND THE TERRAIN CONDITIONS.

File No 1418 4/17/89 AIKEN	,SC A/C Reg. No. N118HS	Time (Lcl) - 1205 EDT
Accident Occurred During -DESCENT	AD Aircraft Damage SUBSTANTIAL USE Fire Cre NONE Pas	Injuries Fatal Serious Minor None W 0 1 0 0 S 0 0 0 0
Aircraft Information		ELT Installed/Activated - NO -N/A Stall Warning System - NO
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC		Airport Proximity OFF AIRPORT/STRIP Airport Data
	Age - 42 Medical Certific Biennial Flight Review Fli Current - YES Total - Months Since - 1 Make/Model- Aircraft Type - UH-1 Instrument- Multi-Eng -	ate - VALID MEDICAL-NO WAIVERS/LIMIT ght Time (Hours) UNK/NR
Instrument Rating(s) - HELICOPTERNarrative THE HELICOPTER WAS BEING OPERD AT APRX 100 FT SOUND. AS THEY LOOKED IN THE DRCTN OF THE HEL BE HANGING. THE PLT RPRTD THERE WAS NO WARNIN HELICOPTER. THE HELICOPTER THEN COLLIDED WITH GEARBOX ON 4/11/89. THE COMPANY MECHANIC SUBS ACDNT OCCURRED AFTER APRX ANOTHER 6 HRS OF OP BOLTS WERE MISSING FM THE TAIL ROTOR PITCH CH RETENTION THRU-BOLT HOLE. THE RETENTION BOLT, CONTAINED CHORDWISE MARKS WHICH CORRESPONDED	AGL WITH A HOPPER EXTDD FROM A CABLE. WITNE ICOPTER, THEY NOTED THE TAIL ROTOR WAS NOT TO GOF AN IMPENDING ANTI-TORQUE CONTROL PROBLE. TREES & CRASHED. INV REVEALED THE PLT HAD REQUENTLY REPLACED THE GEARBOX & A FUNCTIONAL N. AN EXAM OF THE TAIL ROTOR ASSEMBLY REVEAL ANGE CROSSHEAD. THREADED IMPRINTS WERE FND NUT, WASHER & COTTER PIN WERE NOT RECOVERED	URNING & ONE BLADE APPEARED TO M WHEN HE LOST CONTROL OF THE PRTD AN OIL LEAK FM THE 90 DEG TEST FLT WAS COMPLETED. THE ED THAT 1 OF THE 2 RETENTION INSIDE THE RESPECTIVE CROSSHEAD BOTH TAIL ROTOR BLADES

File No. - 1418 4/17/89 AIKEN, SC A/C Reg. No. N118HS Time (Lcl) - 1205 EDT AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #1 Phase of Operation CRUISE Finding(s) 1. ROTOR SYSTEM, TAIL ROTOR HUB PITCH CHANGE BEAM - NOT SAFETIED 2. MAINTENANCE, INSTALLATION - IMPROPER - COMPANY MAINTENANCE PSNL 3. ROTOR SYSTEM, TAIL ROTOR HUB PITCH CHANGE BEAM - LOOSE 4. ROTOR SYSTEM, TAIL ROTOR HUB - FAILURE, TOTAL 5. ROTOR SYSTEM, TAIL ROTOR BLADE - SEPARATION Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation CRUISE Finding(s) 6. DIRECTIONAL CONTROL - NOT POSSIBLE -Occurrence #3 FORCED LANDING Phase of Operation DESCENT - UNCONTROLLED Finding(s) 7. AUTOROTATION - ATTEMPTED -Occurrence #4 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - UNCONTROLLED Finding(s) 8. OBJECT - TREE(S) ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER INSTALLATION OF A TAIL ROTOR PITCH CHANGE CROSSHEAD RETENTION BOLT BY THE COMPANY MECHANIC, WHICH RESULTED IN LOOSENING OF THE BOLT AND EVENTUAL FAILURE OF THE TAIL ROTOR ASSEMBLY/BLADE AND SUBSEQUENT LOSS OF CONTROL. TREES AT THE CRASH SITE CONTRIBUTED TO HELICOPTER DAMAGE.

File No 1426 5/06/89 LUGOFF	r,sc	A/C Reg. No.	N4985D	T	ime (Lcl) -	- 1715 EDT	
Type of Operation -SKYDIVING Flight Conducted Under -14 CFR 105 Accident Occurred During -APPROACH	L AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 1 0	ries Minor 0 0	None 0 0
Aircraft Information Make/Model - CESSNA 182A Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2650 No. of Seats - 1		odel - CONTINENTA ines - 1 e - RECIPROCA r - 230 HP	AL 0-470-L	ELT S TOR	Installed/A tall Warnir	Activated -	- UNK/NR - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 260/020 KTS Visibility - 7.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 3500 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart SAME AS A Destination LOCAL ATC/Airspace Type of Fli Type of Cle Type Apch/I	ure Point CC/INC	IC PATTERN	Airport ON AIR Airport LUGOFF Runway Runway Runway	Proximity STRIP Data	- 31 - 2800 -UI - GRASS/TUI	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND, SE SEA GLIDER Instrument Rating(s) - AIRPLANE	Age - 29 Biennial Flight R Current Months Since Aircraft Type		Certificat Fligh Fal - 12 Fe/Model- 14 Ftrument- Lti-Eng -	e - VALID t Time (H 50 0 136 74	MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotorcr	AIVERS/LIM Hrs - 2 Days- 35 Days- 115	IT 5 0
THE PLT WAS RETURNING TO LAND AFTER HAULING SE 20 TO 30 DEG OF FLAPS EXTENDED, THE ACFT ENTER NOSE TO INCREASE SPEED & THAT HE PLANNED TO AN COLLIDED WITH THE GROUND IN A NOSE LOW ATTITUIL LANDINGS SHOULD BE PERFORMED WITH THE FLAPS RELAND THE ACFT ON A HARD SURFACE WITH NO WIND EVARIABLE FROM 240 TO 270 DEG WITH GUSTS TO 20 FROM 260 DEG AT 20 GUSTING 28 KTS.	XYDIVERS. HE RPRTD RED A HIGH SINK RA RREST THE SINK RAT DE. THE FLT MANUAL TRACT. THE MANUFA 4 40 DEG OF FLAPS.	THAT WHILE ON A TE IN GUSTY WIND E IN THE FLARE, F RECOMMENDED THAT CTURER ESTIMATED THE RWY LENGTH V	CONDITIONS. BUT THEN "THE F IF THE RWY THAT 560 FT WAS 2800 FT.	HE SAID E BOTTOM LENGTH P WOULD HA THE PLT	THAT HE LOW FELL OUT" & ERMITTED, C VE BEEN REQ RPRTD THE W	TERED THE THE ACFT CROSSWIND OUIRED TO VIND WAS	

File No. - 1426 5/06/89 LUGOFF,SC A/C Reg. No. N4985D Time (Lcl) - 1715 EDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Phase of Operation APPROACH

Finding(s)

- 1. WEATHER CONDITION CROSSWIND
- 2. WEATHER CONDITION GUSTS
- 3. LOWERING OF FLAPS EXCESSIVE PILOT IN COMMAND
- 4. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 5. AIRSPEED INADEQUATE PILOT IN COMMAND
- 6. STALL INADVERTENT PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation APPROACH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE COMPENSATION FOR WIND CONDITIONS BY THE PILOT AND HIS FAILURE TO MAINTAIN ADEQUATE SPEED FOR THE WIND CONDITIONS, WHICH RESULTED IN A STALL ON FINAL APPROACH. HIS EXCESSIVE USE OF FLAPS AND THE WIND CONDITIONS WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

File No 1503 10/14/89 RIDGELAN	ND,SC A/C R	eg. No. N734PL	Ti	me (Lcl) -	1530 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL A Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AVIATION) Aircrafi SUBSTAI Fire NONE	: Damage NTIAL Crew Pass	Fatal 0 0	Injur: Serious 0 0	ies Minor 0 0	None 1 1
Aircraft Information Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Eng Make/Model - LY0 Number Engines - 1 Engine Type - RE0 Rated Power -	CIPROCATING-CARBURE	C+	nstalled/Ao all Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Point RIDGELAND,SC Destination LOCAL ATC/Airspace RED Type of Flight Plan	- NONE - NONE - FULL STOP	Runway : Runway :	ORT - ata	3100/ ASPHALT	70
Personnel Information Pilot-In-Command Ac Certificate(s)/Rating(s) Bi PRIVATE SE LAND Instrument Rating(s) - NONE	ge - 66 .ennial Flight Review Current - YES Months Since - 14 Aircraft Type - C-172	Medical Certificat Fligh Total - 20 Make/Model- 72 Instrument-	e - VALID 1 t Time (Hou 99	MEDICAL-WAI urs) Last 24 Last 30 Last 90	Hrs - 1	ΙΤ
Narrative THE PILOT REPORTED THAT THE AIRCRAFT TOUCHED DOW MECHANICAL PROBLEMS OF THE AIRCRAFT WERE REPORTE		AN OFF THE DEPARTU	RE END OF !	THE RUNWAY.	. NO	

File No. - 1503 10/14/89 RIDGELAND, SC A/C Reg. No. N734PL Time (Lcl) - 1530 EDT

Occurrence #1 OVERRUN

Phase of Operation LANDING - ROLL

Finding(s)

1. AIRSPEED - MISJUDGED - PILOT IN COMMAND

2. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT MISJUDGED THE AIRSPEED AND FAILED TO ATTAIN THE PROPER TOUCHDOWN POINT.

File No 1505 10/26/89 FLORE	NCE, SC A/C Reg. No.	N57470	Time (Lcl) - 1100 EDT			
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTANTIAL Fire NONE	Fatal Crew 0 Pass 0	Injuries Serious Minor No 0 0 0 0			
Aircraft Information Make/Model - BELLANCA 7KCAB Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1650 No. of Seats - 2	Eng Make/Model - LYCOMING I Number Engines - 1 Engine Type - RECIP-FUEI Rated Power - 150 HP		T Installed/Activated - UNE Stall Warning System - NO			
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 045/005 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point HARTSVILLE, SC Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - FULL S	OÑ A Airpor ELLI Runw Runw Runw Runw	t Proximity IRPORT t Data OT FIELD ay Ident - UNK/NR ay Lth/Wid - 1500/ 60 ay Surface - GRASS/TURF ay Status - DRY			
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND GLIDER Instrument Rating(s) - NONE	Biennial Flight Review Current - YES Tot Months Since - 15 Mak Aircraft Type - UNK/NR Ins	Flight Time al - 700 e/Model- 150 trument- 50	ID MEDICAL-NO WAIVERS/LIMIT (Hours) Last 24 Hrs - UNK/NR Last 30 Days- UNK/NR Last 90 Days- UNK/NR Rotorcraft - 10			
SE LAND	Mul STRIP, THE PILOT LOST CONTROL OF TH PLIED THE HEEL BRAKES & WOULD NOT R IRPLANE DID NOT REVEAL A BRAKE SYST	ti-Eng - UNK/NR E AIRPLANE ON THE ELEASE. HE THEN APEEM MALFUNCTION. HO	Rotorcraft - 1 LANDING ROLL. HE PLIED LEFT BRAKE AND			

File No. - 1505 10/26/89 FLORENCE,SC A/C Reg. No. N57470 Time (Lcl) - 1100 EDT

Occurrence #1

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

1. LANDING GEAR, STEERING SYSTEM - WORN

- 2. DIRECTIONAL, CONTROL NOT MAINTAINED PILOT IN COMMAND
- 3. GROUND LOOP/SWERVE UNCONTROLLED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE WORN STEERING SYSTEM.

File No 1570 9/02/89 PH	ILIP,SD	A/C Reg. No. N	12685G	T	ime (Lcl) -	- 1345 MDT	
Basic Information Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	ERAL AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 0 0	Minor	None 1 0
Aircraft Information Make/Model - CESSNA 182B Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2650 No. of Seats - 4	Eng Make/Mo Number Engin Engine Type Rated Power	del - CONTINENTAI nes - 1 - RECIPROCATI - 230 HP		st	Installed/Æ		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 160/018 KTS Visibility - 25.0 SM Lowest Sky/Clouds - 5000 FT S Lowest Ceiling - 15000 FT B	Itinerary Last Departu: CASPER,WY Destination MURDO,SD ATC/Airspace CATTERED Type of Fligh	re Point nt Plan - NONE cance - NONE	UND	Airport I PHILIP Runway Runway Runway	RPORT/STRIE	- 30 - 4000/ - ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 53 Biennial Flight Rev Current Months Since - Aircraft Type -	Medical view - YES Tota - 21 Make - C-182B Inst	Certificate Flight 1 - 743 Model- 627	e - VALID Time (Ho	MEDICAL-WA Durs) Last 24 Last 30 Last 90	AIVERS/LIMI Hrs - 2 Days- 29 Days- 33	T
Instrument Rating(s) - NONENarrative THE PILOT REPORTED THAT HE WAS LANDING ON THE WAS LANDING, THE AIRCRAFT ENCOUNTERED A ENGINE LOST POWER. DURING THE SUBSEQUENT FOR AIRPORT OPERATOR REPORTED THE WIND WAS FROM	RUNWAY 30 (4000 X 75T I SUDDEN GUST & HE DECII DRCED LANDING, THE AIRO M THE SOUTH AT ABOUT 30	RWY) WITH A STRON DED TO GO AROUND. CRAFT HIT A POWER	G LEFT CROS HE INITIAT	SSWIND. HE	E SAID THAT AROUND, BUT CRASHED.	AS THE	·
WIND WAS FROM 160 DEG AT 18 GUSTING 25 KTS							

9/02/89 PHILIP,SD File No. - 1570 A/C Reg. No. N2685G Time (Lcl) - 1345 MDT Occurrence #1 LOSS OF ENGINE POWER Phase of Operation LANDING - ABORTED Finding(s) 1. REASON FOR OCCURRENCE UNDETERMINED Occurrence #2 FORCED LANDING Phase of Operation LANDING

Occurrence #3 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

2. OBJECT - POLE

3. OBJECT - WIRE, TRANSMISSION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNDETERMINED REASON. FACTORS RELATED TO THE ACCIDENT WERE: THE POWER LINE & POLE.

File No 1479 8/27/89 GALLA		eg. No. N5684S	Time	(Lcl) - 15	00 CDT	
-Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		t Damage NTIAL Crew Pass	Fatal S 0 0	Injuries Serious M 1 1	s Minor 0 0	None 0 0
-Aircraft Information Make/Model - BEECH A23-19 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2200 No. of Seats - 4	Eng Make/Model - LY Number Engines - 1 Engine Type - RE Rated Power -	CIPROCATING-CARBURE	Stal	stalled/Acti l Warning S	.vated - Y System - Y	ES/YI
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point GALLATIN,TN Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE	Runway Su	RT -	ASS/TURF	NR
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 55 Biennial Flight Review Current - YES Months Since - 18 Aircraft Type - UNK/NR	Medical Certificat Fligh Total - 12 Make/Model- 30 Instrument- UN Multi-Eng - UN	nt Time (Hour	(s)	•	
Instrument Rating(s) - NONE						
Instrument Rating(s) - NONE	ES TALL, AND THE RUNWAY WAS	ROUGH AND UNEVEN.	THE INVESTIG			

File No. - 1479 8/27/89 GALLATIN, TN A/C Req. No. N5684S Time (Lcl) - 1500 CDT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. RUNWAY MAINTENANCE - INADEQUATE -

- 2. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND
- 3. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION ROUGH/UNEVEN
- 4. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION HIGH VEGETATION
- 5. OBJECT FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT USED AN UNSUITABLE RUNWAY AREA (TERRAIN) FOR TAKEOFF. RELATED FACTORS WERE: INADEQUATE MAINTENANCE OF THE RUNWAY, RUNWAY CONDITIONS (UNEVEN SURFACE & TALL GRASS), AND THE FENCE.

Type Operating Certificate-NONE (GENERAL AVIATION) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT Aircraft Information Make/Model - PIPER PA-28R-200 Eng Make/Model Landing Gear - TRICYCLE-RETRACTABLE Number Engine Max Gross Wt - 2650 Engine Type No. of Seats - 4 Rated Power			Injuries Serious Minos 0 0 0 0	: None 0 0
Aircraft Information Make/Model - PIPER PA-28R-200 Eng Make/Mod Landing Gear - TRICYCLE-RETRACTABLE Number Engine Max Gross Wt - 2650 Engine Type No of Seats - 4 Rated Power	 ≥1 - LYCOMING IO-360			
no. of coact	es - 1 - RECIP-FUEL INJECTE - 200 HP	ELT S	Installed/Activate tall Warning Syste	∍d - YES/YE ∍m - YES
-Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 360/010 KTS Visibility - 2.000 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 600 FT BROKEN Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - DUSK Itinerary MORRISTOWN, Destination CLEVELAND, To The position of Complete and the position of Comp	Point N Plan - IFR ance - IFR	Airport OFF AI	Proximity RPORT/STRIP Data	
-Personnel Information Pilot-In-Command Age - 52 Certificate(s)/Rating(s) Biennial Flight Rev. PRIVATE Current - SE LAND Months Since - Aircraft Type - Instrument Rating(s) - AIRPLANE		cate - VALID Light Time (H - 435 - 202 - 47 - 10	MEDICAL-WAIVERS/1 ours) Last 24 Hrs - Last 30 Days- Last 90 Days- Rotorcraft -	LIMIT 0 15 52 0

A/C Req. No. N5005S File No. - 1449 10/18/89 ATHENS, TN Time (Lcl) - 1902 EDT

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

Finding(s)

1. LIGHT CONDITION - DUSK

- 2. WEATHER CONDITION CLOUDS
- 3. WEATHER CONDITION LOW CEILING
- 4. DESCENT INITIATED -
- 5. SPIRAL INADVERTENT PILOT IN COMMAND
- SPATIAL DISORIENTATION PILOT IN COMMAND
- LACK OF TOTAL EXPERIENCE IN TYPE OPERATION 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: LOSS OF CONTROL OF THE AIRPLANE IN INSTRUMENT FLIGHT CONDITIONS DUE TO SPATIAL DISORIENTATION, WHICH RESULTED IN AN INADVERTENT DESCENDING SPIRAL. LACK OF TOTAL EXPERIENCE IN THE TYPE OF OPERATION (ACTUAL INSTRUMENT CONDITIONS) WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

File No 1485 11/04/89 DYERS	BURG, IN A/C	Reg. No. N95617	Tir	me (Lcl) -	1400 CST	
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -INSTRUCTION Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING						None 1 0
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Eng Make/Model - Number Engines - Engine Type - Rated Power -	LYCOMING 0-235-N2C 1 RECIPROCATING-CARBURI 108 HP	ELT I Sta	nstalled/Ac all Warning	tivated - System -	YES/NO YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 190/005 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary ; Last Departure Poi MADISONVILLE,KY Destination DYERSBURG,TN	.nt	Airport Proof Airport Da	roximity PORT/STRIP ata	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 18 Biennial Flight Review Current - YES Months Since - 5 Aircraft Type - UNK/	Medical Certificat Fligh Total - 9(Make/Model- 9('NR Instrument- UN Multi-Eng -	ce - VALID Mat Time (How))))))))))))	MEDICAL-NO urs) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/L Hrs - 3 Days- 24 Days- 35 ft -	IMIT
Instrument Rating(s) - NONENarrative PRIVATE PLT (18 YEAR OLD STUDENT, FLYING A	UNIVERSITY ACFT) WAS ON A	CROSS-COUNTRY INSTRU	JCTIONAL FL	 r. DRG THE		
LT, HE NOTED A TINGLING FEELING THAT BEGAN IN CAUSED BY HOLDING THE CONTROLS TOO TIGHTING NOTED IN HIS LEGS. THE TINGLING TURNED TO SEMERGENCY LANDING; HOWEVER, THE FIELD THAT HE WHEELS ENTERED THE SOFT DIRT & THE ACFT NOTED THAT WE WHEELS WITH THE PLT.	N HIS FINGERTIPS. AT FIRS Y. AS TIME PASSED, THE TI NUMBNESS & EVENTUALLY AF HE SELECTED WAS SOFTER T	T, HE WAS NOT CONCERNINGLING SPREAD UP HIS FECTED HIS FACE & SPETHAN HE EXPECTED. IMME	TED, SINCE F ARMS & A SI ECH. HE ELE DIATELY AFI	HE THOUGHT IMILAR SENS ECTED TO MA FER TOUCHDO	ATION KE WN,	

File No. - 1485 11/04/89 DYERSBURG, TN A/C Reg. No. N95617 Time (Lcl) - 1400 CST

Occurrence #1 MISCELLANEOUS/OTHER

Phase of Operation CRUISE

Finding(s)

1. MISCELLANEOUS

2. PHYSIOLOGICAL CONDITION - PILOT IN COMMAND

Occurrence #2

NOSE OVER

Phase of Operation LANDING - ROLL

Finding(s)

3. PRECAUTIONARY LANDING - PERFORMED -

4. TERRAIN CONDITION - SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S TEMPORARY PHYSICAL CONDITION (POSSIBLE HYPERVENTILATION OR ANXIETY ATTACK). SOFT TERRAIN IN THE EMERGENCY LANDING AREA WAS CONSIDERED TO BE A RELATED FACTOR.

File No 1499 12/03/89 JACKS	ON,TN A/C Reg. No. N1361P	Time (Lcl) - 1230 CST
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraft Damage SUBSTANTIAL L Fire Cre NONE Pas	Injuries Fatal Serious Minor None W 0 0 0 2 s 0 0 0 0
Aircraft Information Make/Model - PIPER PA-23-150 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3800 No. of Seats - 4	Eng Make/Model - LYCOMING 0-320-C23B Number Engines - 2 Engine Type - RECIPROCATING-CARBU Rated Power - 150 HP	Stall Warning 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- 320/007 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point BOLIVAR, TN Destination JACKSON, TN ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - FORCED LANDING	Airport Proximity ON AIRPORT Airport Data MCKELLER FIELD Runway Ident - 20 Runway Ith/Wid - 6008/ 150 Runway Surface - ASPHALT Runway Status - DRY
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP,CFI SE LAND,ME LAND	Age - 32 Medical Certific Biennial Flight Review Fli Current - YES Total - Months Since - 4 Make/Model- Aircraft Type - PA-44 Instrument- Multi-Eng -	ate - VALID MEDICAL-NO WAIVERS/LIMIT ght Time (Hours) 2030
Instrument Rating(s) - AIRPLANE		
THE PILOTS WERE CONDUCTING INSTRUMENT FLIGHT THE FLIGHT INSTRUCTOR (CFI) ASSUMED CONTROL O THEREAFTER, THE RIGHT ENGINE QUIT. THE CFI TR REACH THE SELECTED RUNWAY. THE ACFT TOUCHED D ACFT REVEALED NO MECHANICAL PROBLEMS WHICH WO BOTH ENGINES OPERATED NORMALLY DURING A POST- RESPECTIVELY. ACCORDING TO CARBURETOR ICING C	F THE AIRPLANE & ATTEMPTED TO RESTORE THE POI IED TO MAKE AN EMERGENCY LANDING ON THE AIRP OWN ON SOFT TERRAIN SHORT OF RUNWAY 20 & WAS ULD HAVE PREVENTED NORMAL OPERATION OF THE EN ACCIDENT CHECK. THE TEMPERATURE & DEW POINT	WER, BUT WAS UNABLE. SHORTLY ORT, BUT WAS UNABLE TO DAMAGED. AN EXAM OF THE NGINE OR ACFT SYSTEMS.

File No. - 1499 12/03/89

JACKSON, TN

A/C Reg. No. N1361P

Time (Lcl) - 1230 CST

Occurrence #1

LOSS OF ENGINE POWER (TOTAL) - NON-MECHANICAL

Phase of Operation MANEUVERING

Finding(s)

1. PLANNING-DECISION - IMPROPER - DUAL STUDENT

2. SUPERVISION - INADEQUATE - PILOT IN COMMAND (CFI)

3. FLUID, FUEL - STARVATION

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 NOSE GEAR COLLAPSED Phase of Operation LANDING - ROLL

Finding(s)

4. LANDING GEAR, NOSE GEAR - OVERLOAD

5. TERRAIN CONDITION - SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF POWER IN BOTH ENGINES (PROBABLE FUEL STARVATION) DUE TO IMPROPER PLANNING/DECISION BY THE PILOT(S), AND LACK OF SUPERVISION BY THE INSTRUCTOR. SOFT TERRAIN IN THE EMERGENCY LANDING AREA WAS CONSIDERED TO BE A FACTOR.

File No 1452 2/17/89 CONRO	DE,TX A/C Reg.	No. N3976W	Time (Lcl)	- 0605 CST	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING			Injur Tatal Serious 0 0 0 0	ries Minor 2 2	None 0 0
Aircraft Information Make/Model - PIPER PA-32-260 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3400 No. of Seats - 6	Eng Make/Model - LYCOM Number Engines - 1 Engine Type - RECIP Rated Power - 26	ING 0-540-E4B5 ROCATING-CARBURETOR) HP	ELT Installed/ <i>I</i> Stall Warnir	Activated - ng System -	YES/YES YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 040/006 KTS Visibility - 8.0 SM Lowest Sky/Clouds - 400 FT Lowest Ceiling - 400 FT OVER Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure Point WALLER,TX Destination GRENADA,MS	Ai 'R 'R	rport Proximity OFF AIRPORT/STRIF rport Data Runway Ident - Runway Lth/Wid - Runway Surface - Runway Status -	- 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	Age - 23 Med Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - PA-34	dical Certificate - Flight T Total - 1433 Make/Model- 25 Instrument- 18 Multi-Eng - 19	2 Last 90		
Narrative WHILE THE AIRCRAFT WAS CRUISING ABOVE AN OVER TOWARD THE NEAREST AIRPORT. HE SAID THE AIRCR HE WAS UNABLE TO REACH IT. SUBSEQUENTLY, THE NIGHT IN A WOODED AREA. AN EXAM OF THE ENGINE	AFT "BROKE OUT" OF THE CLOUDS A AIRCRAFT COLLIDED WITH TREES AS	AT ABOUT 400' AGL & THE PILOT MADE AN	HE SAW THE AIRPO	ORT, BUT NG AT	

File No. - 1452

2/17/89 CONROE, TX

A/C Reg. No. N3976W

Time (Lcl) - 0605 CST

Occurrence #1

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

Phase of Operation CRUISE - NORMAL

Finding(s)

1. ENGINE ASSEMBLY, CRANKSHAFT - FATIGUE

Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY

Occurrence #3 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

2. WEATHER CONDITION - LOW CEILING

3. LIGHT CONDITION - DARK NIGHT

4. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE ENGINE CRANKSHAFT DUE TO FATIGUE. THE LOW CEILING, DARK NIGHT, AND TREES IN THE EMERGENCY LANDING AREA WERE FACTORS.

File No 1420 3/26/89 E	ORT WORTH, TX	A/C Reg. No. N45	5940	T.	ime (Lcl) -		
Type of Operation	NERAL AVIATION)	Aircraft Damage SUBSTANTIAL Fire	Crew	Fatal 0	Injur Serious 1	ries Minor 0	None 0 0
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2							
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - ACFT RADIO Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 130/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 5000 FT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depa SAME AS Destinati LOCAL ATC/Airspac SCATTERED Type of F Type of C Type Apch	rture Point ACC/INC on e light Plan - NONE learance - NONE /Lndg - TRAFFIC F		Airport : ON AIR Airport : MEACHAI Runway	Proximity PORT Data M Ident -	- 16R	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 31 Biennial Flight Current Months Sinc Aircraft Ty		ertificat Fligh - 59 Model- 59 ument-	e - VALID t Time (Ho	MEDICAL-NO ours) Last 24 Last 30 Last 90	MAIVERS/ Hrs - 2 Days- 33 Days- 39	LIMIT
Instrument Rating(s) - NONE							
Narrative E STUDENT PLT HAD 52 HRS OF DUAL FLT IN TER THAT, HE OBTAINED AN ADDITIONAL 8 H IMARY INSTRUCTOR (CFI) ADVISED HIM THAT IMATER IN THE DAY FOR ANOTHER EVALUATI I, HE UTILIZED ANOTHER CFI FOR TRAINING THORIZED THE STUDENT TO MAKE A 2ND SOLO UNCED; THE STUDENT HELD THE FLARE & CON ERED LEFT AND CROSSED A TWY & AN EMBANK OM 130 DEG AT 13 KTS.	RS OF DUAL FLT TIME THE WX CONDITIONS W ON OF THE WIND FOR A THEY MADE TWO TOUC FLT. DRG THE NEXT L TD THE LANDING. THE MENT. SUBSEQUENTLY,	& 30 LANDINGS. EARLIEF ERE NOT SUFFICIENT FOF SOLO FLT. WHEN THE ST H-&-GO LANDINGS & ONE ANDING (2ND SOLO FLT), ACFT TOUCHED DOWN AGAI	R ON THE DESCRIPTION OF THE ACTION ON THE	DAY OF THI INING & TO S UNABLE! P LANDING T TOUCHED LEFT SIDI	E ACDNT, HI O CHECK WIT FO CONTACT , THEN THIS DOWN ON RW E OF THE RW	IS TH HIS S CFI WY 16R & WY, THEN	

File No. - 1420 3/26/89 FORT WORTH, TX A/C Reg. No. N45940 Time (Lcl) - 1813 CST

Occurrence #1 LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

- 1. SUPERVISION IMPROPER FLIGHT INSTRUCTOR (ON GROUND)
- 2. WEATHER CONDITION CROSSWIND
- 3. FLARE IMPROPER PILOT IN COMMAND
- 4. RECOVERY FROM BOUNCED LANDING IMPROPER PILOT IN COMMAND
- 5. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 6. GROUND LOOP/SWERVE INADVERTENT PILOT IN COMMAND

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

Finding(s)

- 7. TERRAIN CONDITION DITCH
- 8. OBJECT TREE(S)

----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. CONTRIBUTING FACTORS WERE: INADEQUATE SUPERVISION BY THE CFI, WHO AUTHORIZED THE 2ND SOLO FLIGHT IN UNFAVORABLE WIND CONDITIONS, THE CROSSWIND, THE STUDENT PILOT'S IMPROPER FLARE AND RECOVERY FROM A BOUNCED LANDING, THE RAVINE (DITCH), AND THE TREES.

File No 1509 4/08/89 PADR	E ISLAND, TX A/C Re	g. No. N51774	Tim	e (Lcl) -	· 1416 CDT	
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -POSITIONING Flight Conducted Under -14 CFR 91 Accident Occurred During -TAXI		Damage TIAL Crew Pass		0 0	ies Minor 0 0	None 1 1
Aircraft Information Make/Model - ENSTROM F28C Landing Gear - SKID Max Gross Wt - 2350 No. of Seats - 3	Eng Make/Model - LYC Number Engines - 1 Engine Type - REC Rated Power -		ELT In	.stalled/A	ctivated o	
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - ACFT RADIO Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 170/016 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace	NONE NONE	Airport Da Runway I Runway L Runway S	ORT/STRIP	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE, COMMERCIAL SE LAND HELICOPTER Instrument Rating(s) - NONE	Age - 42 Biennial Flight Review Current - YES Months Since - 16 Aircraft Type - C-172	Medical Certificat Fligh Total - 28 Make/Model- 50 Instrument-	e - VALID Mut Time (Hou 00 0	EDICAL-WA rs) Last 24 Last 30 Last 90 Rotorcr	IVERS/LIM Hrs - 0 Days- 4 Days- 10 aft -	980
THE COMMERCIAL PILOT REPORTED LOCAL WINDS TO HELICOPTER TO AN AREA 200 YARDS AWAY AND EXE ALSO DOWNWIND WITH A PEDAL TURN APPROXIMATEL DIRECT CROSSWIND AND THE LEFT SKID CONTACTED STRUCK THE GROUND.	CUTED A DOWNWIND DEPARTURE FR Y 30 TO 50 FEET AGL. THE AIRC	OM A HOVER. THE APRAFT DRIFTED LATER	PROACH TO L ALLY IN A R	AND WAS	DES	

File No. - 1509 4/08/89 PADRE ISLAND, TX

File No. - 1509 4/08/89 PADRE ISLAND,TX A/C Reg. No. N51774 Time (Lcl) - 1416 CDT

Occurrence #1

ROLL OVER Phase of Operation TAXI - AERIAL

Finding(s)

1. FLIGHT INTO KNOWN ADVERSE WEATHER - PERFORMED - PILOT IN COMMAND

2. WEATHER CONDITION - UNFAVORABLE WIND

3. WEATHER CONDITION - GUSTS

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S DECISION TO FLY IN ADVERSE WEATHER CONDITION. THE ADVERSE WEATHER WAS A RELATED FACTOR.

File No 1457 4/17/89 JUN	NCTION, TX	A/C Reg. No. N	8785V	Ti	me (Lcl) -	0920 CDT	
Type Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	ERAL AVIATION)	Aircraft Damage DESTROYED Fire NONE	Crew Pass		Injuri Serious 0 0	es Minor 0 0	None 0 0
Aircraft Information Make/Model - BELLANCA 17-30A Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3325 No. of Seats - 4	Eng Make/Mod Number Engin	el - CONTINENTAL es - 1	IO-520-K	ELT I	nstalled/Ac all Warning		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- UNK/NR Visibility500 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 200 FT ON Obstructions to Vision- FOG Precipitation - DRIZZLE Condition of Light - DAYLIGHT	Itinerary Last Departur MIDLAND,TX Destination SAN ANTONIO ATC/Airspace Type of Fligh Type of Clear. Type Apch/Lnd	e Point		Airport P: OFF AIR Airport Da	PORT/STRIP	N/A N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND		Medical diew YES Tota 4 Make C-182 Inst	Certificate Flight 1 - 281 /Model- 30 rument-	- VALID I	MEDICAL-WAI urs) Last 24 Last 30 Last 90	VERS/LIMI Hrs - 1 Days- 19 Days- 30	т
Instrument Rating(s) - NONE							
THE NON-INSTRUMENT RATED PLT HAD RECENTLY A WORK. BEFORE TAKING OFF ON THE ACDNT FLT, FORG THE FLT, THE ACFT CRASHED IN AN AREA OF WAS 200 FT OVERCAST & VISIBILITY WAS 1/2 MI PASSED NEAR THE DESTINATION AIRPORT. AN EXAMINESS STATED THAT THE ENG WAS REVVED UP TOF THE ACFT WAS FOUND DRG THE INVESTIGATION	E OBTAINED A WX BRIEFI: ADVERSE WX. A WITNESS WITH FOG & DRIZZLE. T: M OF THE WRECKAGE REVE: O A HIGH RPM WHEN IMPAG	NG & WAS ADVISED, WHO HEARD THE A HE ACFT CRASHED IN ALED THE ACFT HAI CT OCCURRED. NO IN	THAT VFR F. ACFT CRASH, NEAR A HIGH D IMPACTED PREIMPACT P.	LT WAS NOT ESTIMATED WAY THAT D IN A STEED	T RECOMMEND THE CEILI EVENTUALLY P DESCENT.	NG THE	

File No. - 1457 4/17/89 JUNCTION,TX A/C Reg. No. N8785V Time (Lcl) - 0920 CDT

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE - NORMAL

Finding(s)

- 1. WEATHER CONDITION CLOUDS
- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION FOG
- 4. WEATHER CONDITION DRIZZLE
- 5. VFR FLIGHT INTO IMC CONTINUED PILOT IN COMMAND
- 6. SELF-INDUCED PRESSURE PILOT IN COMMAND

Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation CRUISE - NORMAL

Finding(s)

- 7. AIRCRAFT CONTROL NOT MAINTAINED PILOT IN COMMAND
- 8. SPATIAL DISORIENTATION 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: CONTINUED VFR FLIGHT INTO INSTRUMENT METEOROLOGICAL CONDITIONS (IMC) BY THE PILOT, WHICH RESULTED IN HIS FAILURE TO MAINTAIN CONTROL OF THE AIRCRAFT DUE TO SPATIAL DISORIENTATION. THE WEATHER CONDITIONS AND HIS SELF-INDUCED PRESSURE WERE FACTORS.

-Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	RAL AVIATION) Aircraf SUBSTA Fire NONE	t Damage NTIAL Crew Pass	Fatal 0 0	Injur: Serious 0 0	Minor 0 0	None 1 2
-Aircraft Information Make/Model - CESSNA 182Q Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2950 No. of Seats - 4	Engine Type - RE Rated Power -	NTINENTAL 0-470-U CIPROCATING-CARBURE 230 HP	ELT S TOR	carr warming	, byscem	125
-Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 360/010 KTS Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point CONROE, TX Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- VFR	Airport ON AIR Airport TEXAS Runway Runway Runway		ICH UNK/NR 3400/ ASPHALT	30
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 45 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - C182	Medical Certificat Fligh Total - 22 Make/Model- 4 Instrument- UN Multi-Eng - UN	t Time (H O K/NR	ours) Last 24 Last 30 Last 90	Hrs - 2 Days- 10 Days- 10	
Instrument Rating(s) - NONE						
-Narrative ITNESS SAID THAT ON THE 2ND ATTEMPT TO LA TD THAT WHEN THE ACFT WAS APRX 25 FT AGL ESCENT. SUBSEQUENTLY, THE ACFT TOUCHED I	IN THE FLARE, IT ENCOUNTERED	A GUST & HE PULLED				

File No. - 1515 4/21/89 LEAKEY, TX

A/C Reg. No. N182BS

Time (Lcl) - 1815 CDT

Occurrence #1 HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WEATHER CONDITION GUSTS
- 2. COMPENSATION FOR WIND CONDITIONS IMPROPER PILOT IN COMMAND
- 3. FLARE IMPROPER PILOT IN COMMAND
- 4. RECOVERY FROM BOUNCED LANDING IMPROPER PILOT IN COMMAND
- 5. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER COMPENSATION FOR WIND CONDITIONS, IMPROPER FLARE, AND IMPROPER RECOVERY FROM A BOUNCED LANDING. FACTORS RELATED TO THE ACCIDENT WERE: THE GUSTY WIND CONDITION AND THE PILOT'S LACK OF EXPERIENCE IN THIS MAKE AND MODEL OF AIRCRAFT.

File No 1456 5/18/89 ROCKS	SPRINGS,TX A/C Reg	. No. N58228	Tir	me (Lcl) -	1830 CDT	
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -HERD ANIMALS Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	AL AVIATION) Aircraft DESTROYE Fire NONE	Damage D Crew Pass	Fatal 1 0	Injur Serious 0 0	ies Minor 0 0	None 0 0
Aircraft Information Make/Model - HUGHES 269C Landing Gear - SKID Max Gross Wt - 2050 No. of Seats - 3	Eng Make/Model - LYCO Number Engines - 1 Engine Type - RECI Rated Power - 1	P-FUEL INJECTED 90 HP	Sta	nstalled/A all Warnin		
Environment/Operations Information Weather Data	Itinerary Last Departure Point SAME AS ACC/INC Destination		Airport P: OFF AIRI	roximity PORT/STRIP ata		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND HELICOPTER Instrument Rating(s) - NONE	Age - 39 M Biennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	edical Certificate Fligh Total - 24 Make/Model- UNI Instrument- UNI Multi-Eng - UNI	e - VALID N t Time (Hou 50 K/NR K/NR K/NR	MEDICAL-WA irs) Last 24 Last 30 Last 90 Rotorer	IVERS/LIM Hrs - UNI Days- UNI Days- UNI aft - UNI	IT K/NR K/NR K/NR K/NR
THE PLT WAS FLYING LOW & HERDING ANTELOPE, WE CONSCIOUS AFTER THE ACONT, BUT DIED ABOUT 3 PREIMPACT PART FAILURE OR MALFUNCTION OF THE THE WRECKAGE REVEALED THE HELICOPTER HAD IMPAEVIDENCE OF HIGH FLAPPING ANGLES AT IMPACT. OF NORDIAZEPAM AT LEVELS OF 0.104 MG/L, 0.846 RANGE FOR NORDIAZEPAM IN BLOOD WAS 0.02 TO 0. FOR FLYING.	IEN THE HELICOPTER IMPACTED THE IRS LATER. BEFORE DYING, HE SA ACFT OR ENG WAS FOUND THAT WO ACTED IN A LEFT BANK, NOSE LOW TOXICOLOGY CHECKS OF THE PLT'S MG/L & 0.427 MG/L, RESPECTIV	E TERRAIN & WAS DID THE ENG HAD LOSULD HAVE LED TO A ATTITUDE. ALL 3 I BLOOD, LIVER & KELY. THE TOXICOLOG	ST POWER; I POWER LOSS MAIN ROTOR IDNEY REVE GIST RPRTD	HOWEVER, NO S. AN EXAM BLADES HAN ALED THE PI THE THERAN	O OF D RESENCE PEUTIC	

File No. - 1456 5/18/89 ROCKSPRINGS,TX A/C Reg. No. N58228 Time (Lcl) - 1830 CDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING

Finding(s)

- 1. MANEUVER PERFORMED PILOT IN COMMAND
- 2. ROTOR RPM NOT MAINTAINED PILOT IN COMMAND
- 3. ALTITUDE NOT MAINTAINED PILOT IN COMMAND
- 4. DIVERTED ATTENTION PILOT IN COMMAND
- 5. PHYSICAL IMPAIRMENT (DRUGS) PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT DIVERTED HIS ATTENTION FROM OPERATION OF THE HELICOPTER, FAILED TO MAINTIAN PROPER ROTOR RPM, AND FAILED
TO MAINTAIN ALTITUDE (CLEARANCE) ABOVE THE GROUND, WHILE MANEUVERING AT LOW ALTITUDE. A CONTRIBUTING FACTOR WAS HIS
IMPAIRMENT FROM USE OF A PRESCRIPTION DRUG (NORDIAZEPAM OR DIAZEPAM), WHICH WAS NOT COMPATIBLE WITH FLYING.

File No 1550 5/25/89 AD		No. N6434J	T:	ime (Lcl)	- 2200 CDT	
Basic Information Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAXI	TERAL AVIATION) Aircraft Da SUBSTANTIA Fire		Fatal 0 0	Inju Serious 0 0	ries Minor 0 0	None 1 0
Aircraft Information Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2150 No. of Seats - 4	Eng Make/Model - LYCOMI Number Engines - 1 Engine Type - RECIPR Rated Power - 160	ROCATING-CARBURET	St	Installed/ Tall Warni	Activated - ng System -	YES/YE YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEF Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - N/A Lowest Ceiling - UNK/NR Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK	Itinerary Last Departure Point SAME AS ACC/INC Destination UNK/NR ATC/Airspace Type of Flight Plan - UN Type of Clearance - UN Type Apch/Lndg - UN	ik/nr ik/nr	ON AIRI Airport I ADDISOI Runway Runway Runway	Data	- UNK/NR - ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 22 Med Biennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	dical Certificate Flight Total - 161 Make/Model- 27 Instrument- Multi-Eng -	- VALID Time (Ho	MEDICAL-No burs) Last 2 Last 3 Last 9 Rotore:	- •	

File No. - 1550 5/25/89 ADDISON, TX A/C Reg. No. N6434J Time (Lcl) - 2200 CDT Occurrence #1 ON GROUND COLLISION WITH OBJECT Phase of Operation TAXI

Finding(s)

- 1. LIGHT CONDITION DARK NIGHT
- 2. BECAME LOST/DISORIENTED INADVERTENT PILOT IN COMMAND
- VISUAL/AURAL PERCEPTION PILOT IN COMMAND
- 4. OBJECT UTILITY POLE
- 5. CLEARANCE NOT MAINTAINED PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAXI

Finding(s)

6. 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 CLEARANCE FROM THE TELEPHONE POLE. FACTORS RELATED TO THE ACCIDENT WERE: DARKNESS, THE PILOT'S DISORIENTATION, LACK OF VISUAL PERCEPTION AT NIGHT, THE TELEPHONE (UTILITY) POLE, AND THE DITCH.

File No 1549 5/2	9/89 STRATFORD,TX	A/C Reg.	No. N3279Q	Time (Lcl) - 2112 CD	r
Basic Information Type Operating Certificate Type of Operation Flight Conducted Under Accident Occurred During	-NONE (GENERAL AVIATION) -PERSONAL -14 CFR 91 -APPROACH			Fatal Ser 0 0	Injuries ious Minor 0 0 0 0	None 1 0
-Aircraft Information Make/Model - PIPER PA-3 Landing Gear - TRICYCLE-R Max Gross Wt - 3600 No. of Seats - 6	ETRACTABLE Numb Engi	Make/Model - LYCOMI per Engines - 1 ne Type - RECIP- ed Power - 300	FUEL INJECTED HP		lled/Activated Warning System	
-Environment/Operations Inform Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed - 050 KTS Visibility - 15.0 Lowest Sky/Clouds - Lowest Ceiling - Obstructions to Vision- Precipitation - 1 Condition of Light - 1	nation Itinera Last TUI Desti SAM SM ATC/Air 2500 FT SCATTERED Type 5000 FT BROKEN Type	Departure Point SA, OK nation E AS ACC/INC space of Flight Plan - NO of Clearance - NO Apch/Lndg - TR	NE	Airport Proximon Airport Data STRATFORD Runway Iden Runway Lth/Runway Stat	t - 22 Wid - 3200/ ace - ASPHALT	32
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 60 Biennial Fl Current Months Aircraf	Med ight Review - NO Since - 25 t Type - PA-32R	ical Certificate Flight Total - 225 Make/Model- 114 Instrument- UNK Multi-Eng -	- VALID MEDIO Time (Hours) 6 L 0 L /NR L 0 R	CAL-NO WAIVERS, ast 24 Hrs - 4 ast 30 Days- UN ast 90 Days- 21 otorcraft -	'LIMIT NK/NR L 0
Instrument Rating(s)	- AIRPLANE					
-Narrative ING AN APPROACH TO LAND, THE DEST DURING THE GO-AROUND AND ACCIDENT SITE WERE FROM 160 DESTRUCTION 160 DESTRUCT	THE AIRPLANE IMPACTED T	HE GROUND IN A LEVE				

File No. - 1549 5/29/89 STRATFORD, TX A/C Req. No. N3279Q Time (Lcl) - 2112 CDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND 2. WEATHER CONDITION - UNFAVORABLE WIND 3. WEATHER CONDITION - HIGH WIND 4. WEATHER CONDITION - CROSSWIND 5. WEATHER CONDITION - GUSTS Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation GO-AROUND (VFR) Finding(s) 6. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER

----Probable Cause----

Phase of Operation GO-AROUND (VFR)

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT, AND HIS INADEQUATE COMPENSATION FOR WIND CONDITIONS, WHICH RESULTED IN A LOSS OF AIRCRAFT CONTROL. THE WIND CONDITION WAS A RELATED FACTOR.

Accident Occurred During -TAXI -Aircraft Information Make/Model - PIPER PA-28R Eng Make/ Landing Gear - TRICYCLE-RETRACTABLE Number En Max Gross Wt - 2650 Engine Ty No. of Seats - 4 Rated Pow -Environment/Operations Information Weather Data Itinerary Wx Briefing - NO RECORD OF BRIEFING SAME AS Completeness - N/A Destination Basic Weather - VMC SAN ANTO Wind Dir/Speed- 160/012 KTS Visibility - 20.0 SM ATC/Airspace Lowest Sky/Clouds - CLEAR Type of F1 Lowest Ceiling - NONE Type of Cl Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SUBSTANTIAL Fire NONE Model - LYCOMING gines - 1 De - RECIP-FU er - 200 H	Pass JG IO-360-C1C PUEL INJECTED HP	Airport Da MUSTANG Runway I	nstalled/Activa	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Landing Gear - TRICYCLE-RETRACTABLE Mumber En Max Gross Wt - 2650 Engine Ty No. of Seats - 4 Rated Pow Rated Pow Rether Data Itinerary Weather Data Itinerary Wx Briefing - NO RECORD OF BRIEFING SAME AS Completeness - N/A SAME AS Completeness - N/A Destination Basic Weather - VMC SAN ANTO Wind Dir/Speed - 160/012 KTS Visibility - 20.0 SM ATC/Airspace Lowest Sky/Clouds - CLEAR Type of Fl Lowest Ceiling - NONE Type of Cl Obstructions to Vision NONE Type Apch/Precipitation - NONE Condition of Light - DAYLIGHT	gines - 1 De - RECIP-FU Er - 200 H Cure Point ACC/INC NIO,TX Light Plan - NONE	UEL INJECTED HP	Airport Pa ON AIRPO Airport Da MUSTANG Runway I Runway I	all Warning Sys	stem - YES
-Environment/Operations Information Weather Data Itinerary Wx Briefing - NO RECORD OF BRIEFING Method - N/A SAME AS Completeness - N/A Destination Basic Weather - VMC SAN ANTO Wind Dir/Speed- 160/012 KTS Visibility - 20.0 SM ATC/Airspace Lowest Sky/Clouds - CLEAR Type of Fl Lowest Ceiling - NONE Type of Cl Obstructions to Vision- NONE Type Apch/ Precipitation - NONE Condition of Light - DAYLIGHT	cure Point ACC/INC n NIO,TX Light Plan - NONE		ON AIRPO Airport Da MUSTANG Runway I Runway I	ORT [*] ata BEACH Ident - UNK/	
	earance - NONE Endg - NONE	ΙE		Surface - ASPI Status - DRY	IALT
Certificate(s)/Rating(s) PRIVATE SE LAND Current Months Since Aircraft Type Instrument Rating(s) - AIRPLANE	Medic Review - YES 7 - 1 N - PA-28R 1	Flia	ht Time (Ho)	MEDICAL-WAIVERS irs) Last 24 Hrs Last 30 Days Last 90 Days Rotorcraft	
	CEAGE COLLARGE	TINDED THE IE	 FT MAIN GEAR	R. SUBSEQUENTLY	

File No. - 1548 7/01/89 PORT ARANSAS,TX A/C Reg. No. N15250 Time (Lcl) - 1600 CDT

Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER

Phase of Operation TAXI - TO TAKEOFF

Finding(s)

1. AIRPORT FACILITIES, TAXIWAY CONDITION - SOFT

2. OTHER AIRPORT/RUNWAY MAINTENANCE - INADEQUATE -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE COLLAPSE OF THE TAXIWAY, WHICH WAS INADEQUATELY MAINTAINED.

Basic Information Type Operating Certificate-NONE (GENERAI	. Δ\/ΤΔͲΤΛΝ\	Aircraft Damage			Injur	i 0 c	
		SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91		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 - BEECH 35 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2550 No. of Seats - 4	Number End	Model - CONTINENTAI gines - 1 pe - RECIPROCATI er - 185 HP		st	Installed/Actall Warning		
Environment/Operations Information							
Weather Data Wx Briefing - FSS	Itinerary Last Depart	ture Point		Alrport E ON AIRE	Proximity PORT		
Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT	DENTON, T	X.					
Completeness - WEATHER NOT PERTINENT Basic Weather - VMC	Destination	n cc / TNC		Airport D	ata Z		
Wind Dir/Speed- 290/003 KTS	SAME AS A	ACC/ INC		AIRPARK Runwav	Ident -	31	
Visibility - 50.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 25000 FT OVERO Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(BRIGHT)	Type of Flank AST Type of Cla	ight Plan - NONE earance - NONE Lndg - TRAFFIC					30
Personnel Information	- 47						
Pilot-In-Command Certificate(s)/Rating(s)	Age - 4/ Biennial Flight F	Medical Review	Certificate Flight	- VALID	MEDICAL-WA.	IVERS/LIM	LT
PRIVATE	Current	- YES Tota	1 - 689	11110 (110	Last 24	Hrs - 4	
SE LAND	Months Since	- 12 Make	Model- 30	1 2	Last 30	Days- 4	
Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Aircrait Type	e - C-152 Inst Mult	:i-Eng -	0	Rotorcra	pays- 22 aft -	0
Instrument Rating(s) - NONE							
Narrative							
PILOT STATED THAT AS BRAKES WERE APPLIED,	THE LEFT WHEEL DE	EPARTED THE EDGE OF	THE ASPHAL	T RUNWAY IT COLLID	& DIRECTION	NAL	

File No. - 1516 7/03/89 TERRELL, TX A/C Req. No. N2946V Time (Lcl) - 0230 CDT Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. LIGHT CONDITION - BRIGHT NIGHT 2. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 3. GROUND LOOP/SWERVE - UNCONTROLLED - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - DIRT BANK 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: THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL. A FACTOR RELATED TO THE ACCIDENT WAS: THE PILE OF DIRT (DIRT BANK) BESIDE THE RUNWAY.

File No 1439 7/13/89 WE	IARTON, TX A/C	Reg. No. N7037K	T	ime (Lcl) -	1945 CDT	
Basic Information Type Operating Certificate-NONE (GEN Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERI	ERAL AVIATION) Aircr DEST Fire NONE	aft Damage ROYED Crew Pass	Fatal 1 0	Injur: Serious 0 0	ies Minor 0 0	None 0 0
Aircraft Information Make/Model - LOWE/BENSEN KB-2 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 550 No. of Seats - 1	Eng Make/Model - 1	MCCULLOCH AFO-0100-3 1 RECIPROCATING-CARBURE 40 HP	ELT S	Installed/Adtall Warning	ctivated - g System -	NO -N/A
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEF Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 145/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 2000 FT S Lowest Ceiling - 3500 FT O Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poi: WHARTON, TX Destination LOCAL ATC/Airspace CATTERED Type of Flight Plan VERCAST Type of Clearance Type Apch/Lndg	n - NONE - NONE - NONE - NONE	Airport OFF AI Airport Runway Runway Runway	Proximity RPORT/STRIP Data Ident - Lth/Wid - Surface - Status -	N/A N/A N/A N/A	
			ce - VALID nt Time (H 5 0 0	MEDICAL-NO ours) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/L Hrs - 0 Days- 8 Days- 10 aft -	
Narrative E PLT OF N7037K WAS IN A FLT OF 2 GYROPL 037K WAS BEHIND, MAKING A DIVING MANEUVE E ADCNT ACFT HAD BEEN FLYING AT ALTITUDE TREES & TERRAIN. THE LEAD PLT DID NOT S . N7037K WAS EXTENSIVELY DAMAGE; THERE W CHANICAL FAILURE WAS FOUND. THERE WERE N RTIFICATE.	ANES, FLYING IN-TRAIL OF THE R TOWARD THE GROUND. THE LEA S RANGING FM 1000' AGL TO 50 EE N7037K CRASH, BUT FOUND I AS LITTLE FORWARD MOVEMENT O	OTHER ACFT. WHEN LAS D PLT STATED THAT THE 'AGL, MAKING STEEP T T LATER, IN THE VICIN F THE GYROPLANE AFTER	RU-OUT THE PURNS IN C WITY OF WH R IMPACT.	IR FLT, THE LOSE PROXIMI ERE HE LAST NO PREIMPACT	PLT OF TY SAW	

File No. - 1439 7/13/89 WHARTON, TX A/C Reg. No. N7037K Time (Lcl) - 1945 CDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING

Finding(s)

- 1. JUDGEMENT POOR PILOT IN COMMAND
- 2. MANEUVER EXCESSIVE PILOT IN COMMAND
- 3. TERRAIN CONDITION OPEN FIELD
- 4. CLEARANCE NOT MAINTAINED PILOT IN COMMAND
- 5. LACK OF FAMILIARITY WITH AIRCRAFT PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: POOR JUDGEMENT BY THE STUDENT PILOT BY PERFORMING EXCESSIVE/LOW ALTITUDE MANEUVERS, WHICH RESULTED IN HIS FAILURE TO MAINTAIN SUFFICIENT CLEARANCE (ALTITUDE) ABOVE THE OPEN FIELD. HIS LACK OF FAMILIARITY WITH THE AIRCRAFT WAS A CONTRIBUTING FACTOR.

File No 1527 7/16/89 CELINA,	X A/C Reg	. No. N4360K	Time (Lc)	L) - 1343 CDT
Basic Information Type Operating Certificate-NONE (GENERAL A Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		Damage D Crew ID Pass	Ir Fatal Seriou 1 0 1 0	njuries us Minor None 0 0 0 0
Aircraft Information Make/Model - PIPER PA-32R-301T Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3600 No. of Seats - 6 Environment/Operations Information	Eng Make/Model - LYCC Number Engines - 1 Engine Type - RECI Rated Power - 3	MING TIO-540-S1AD P-FUEL INJECTED 00 HP	Stall War	ed/Activated - YES/NO cning 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- 080/005 KTS Visibility - 8.0 SM Lowest Sky/Clouds - 3000 FT SCATTER Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SAME AS ACC/INC Destination HOUSTON, TX ATC/Airspace ED Type of Flight Plan -	NONE NONE	Airport Proximit ON AIRSTRIP Airport Data PRIVATE Runway Ident Runway Lth/Wic	- 01 d - 1931/ 67 e - GRASS/TURF
Personnel Information Pilot-In-Command Ac Certificate(s)/Rating(s) Bi PRIVATE SE LAND	me - 50 M. ennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	edical Certificate Flight Total - 750 Make/Model- 120 Instrument- Multi-Eng -	e - EXPIRED Time (Hours) Last Last 0 Last	: 24 Hrs - 0 : 30 Days- 7 : 90 Days- 25 orcraft - 0
<pre>Instrument Rating(s) - NONE</pre>				
THE PLT ELECTED TO TAKEOFF TO THE NORTH FROM A 1 93 DEG, & THE DENSITY ALT WAS ABOUT 2925 FT. GRASTRIP WAS SOFT & WET; THE PLT INITIATED HIS TAKE OF THE STRIP WAS A 32 FT STORAGE TANK WITH A 10 CLEARED A LOWER MAINT BLDG BY A FEW FT, BUT STRUTHE ACFT WAS LOADED TO ABOUT 12 LBS BELOW THE 36 1700 FT WOULD HAVE BEEN REQUIRED TO CLEAR A 50 FMANUFACTURER INDCD THAT APRX 2340 FT WOULD HAVE PLT'S LAST MED CERT WAS DATED 3/17/87.	SS ON THE STRIP WAS 4 TO 6 OFF FROM A POINT WITH 1647 FT WIND SOCK ON TOP. AFTER CK PWR LINES (28 & 33 FT A 00 LB MAX ALLOWABLE LIMIT. T OBSTACLE DRG TAKEOFF FRO	INCHES TALL & WAS FT OF RWY REMAINI LIFT-OFF, THE ACF GL), THEN CRASHED. ACCORDING TO THE M A DRY, PAVED RWY	WET. THE SOUTH ING. DRCTLY OFF T T WAS BANKED TO AN INVESTIGATION PILOT OPERATING DATA PROVIDED	END OF THE THE DEP END THE RGT. IT ON REVEALED HANDBOOK, BY THE

File No. - 1527 7/16/89 A/C Req. No. N4360K Time (Lcl) - 1343 CDT CELINA, TX

Occurrence #1

IN FLIGHT COLLISION WITH OBJECT

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. ALL AVAILABLE RUNWAY NOT USED PILOT IN COMMAND
- 3. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION GRASS
- 4. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION WET
- 5. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION SOFT
- 6. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 7. OBJECT WIRE, TRANSMISSION

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: IMPROPER PLANNING/DECISION BY THE PILOT. RELATED FACTORS WERE: FAILURE OF THE PILOT TO USE ALL OF THE AVAILABLE RUNWAY AREA, THE RUNWAY/TERRAIN CONDITIONS, AND OBSTRUCTIONS/POWER LINES BEYOND THE DEPARTURE END OF THE RUNWAY.

File No 1547 9/02/89	BELLVILLE, TX	A/C Reg. No. N	113620	Ti	me (Lcl) -	1325 C	DT
-Basic Information Type Operating Certificate-NONE Type of Operation -INSTRU Flight Conducted Under -14 CFU Accident Occurred During -LANDIN	(GENERAL AVIATION) JCTIONAL R 91 JG	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 0 0	ies Minor 0	None 1 0
-Aircraft Information Make/Model - CESSNA 172M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Number F	Model - LYCOMING O- Ingines - 1 Type - RECIPROCATI		st	nstalled/A all Warnin		
Environment/Operations Information- Weather Data Wx Briefing - FSS Method - IN PERSON Completeness - FULL Basic Weather - VMC Wind Dir/Speed - 190/005 KTS	Itinerary Last Depa HOUSTON Destinati SAME AS ATC/Airspac T SCATTERED Type of C Type Apch	arture Point I,TX .on : ACC/INC	C PATTERN	Runway Runway	ORT - ata	2480/ ASPHAL	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 40 Biennial Flight Current Months Sind Aircraft Ty	Medical Review - N/A Tota te - N/A Make Tpe - N/A Inst	Certificate Flight al - 20 e/Model- 20 rument-	- VALID Time (Ho	MEDICAL-WA urs) Last 24 Last 30 Last 90	IVERS/L: Hrs - I Days- I	IMIT UNK/NR UNK/NR UNK/NR
Instrument Rating(s) - NONE							

File No. - 1547 9/02/89 BELLVILLE, TX A/C Req. No. N13620 Time (Lcl) - 1325 CDT Occurrence #1 HARD LANDING
Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. FLARE - IMPROPER - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 2. RECOVERY FROM BOUNCED LANDING - IMPROPER - PILOT IN COMMAND 3. PORPOISE - INADVERTENT - PILOT IN COMMAND Occurrence #3 NOSE GEAR COLLAPSED Phase of Operation LANDING Finding(s) 4. LANDING GEAR, NOSE GEAR - OVERLOAD Occurrence #4 NOSE OVER

----Probable Cause----

Phase of Operation LANDING

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLARE BY THE PILOT AND HIS IMPROPER RECOVERY FROM A BOUNCED LANDING, WHICH RESULTED IN AN INADVERTENT PORPOISE AND SUBSEQUENT NOSE GEAR FAILURE.

Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION) Aircra	ft Damage		Injur	ies	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	DESTR Fire NONE	ft Damage OYED Crew Pass	•	Serious 0 0	Minor 0 0	None 1 1
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1675 No. of Seats - 2	Eng Make/Model - L	YCOMING 0-235-N2C 1 ECIPROCATING-CARBUR	ELT	Installed/A tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - PATWAS Method - TELEPHONE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 7.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poin SAME AS ACC/INC Destination HOUSTON,TX ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE	OFF AI Airport Runway Runway Runway Runway	Proximity RPORT/STRIE Data Ident - Lth/Wid - Surface - Status -	- N/A - N/A - N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 22 Biennial Flight Review Current - YES Months Since - 2 Aircraft Type - C-152	Total - 5	ht Time (H	ours)	•	
Instrument Rating(s) - NONE						
-Narrative PRIVATE PILOT WITH 57 HOURS TOTAL TIME V SEQUENTLY, HE MADE A FORCED LANDING ON A THE ACFT STRUCK A TREE. NO REASON WAS FO	FARM ROAD. DURING THE LANDI				TCH	

File No. - 1552 9/05/89 CARMIN, TX A/C Req. No. N94777 Time (Lcl) - 0715 CDT Occurrence #1 LOSS OF ENGINE POWER (PARTIAL) - MECH FAILURE/MALF Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. REASON FOR OCCURRENCE UNDETERMINED Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 2. TERRAIN CONDITION - DITCH Occurrence #4 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING Finding(s) 3. OBJECT - FENCE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF POWER FOR AN UNKNOWN REASON. FACTORS RELATED TO THE ACCIDENT WERE THE DITCH & FENCE.

File No 1543 9/16/89 KER		C Reg. No. N14LU		ime (Lcl) -		
Basic Information Type Operating Certificate-NONE (GENE) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		raft Damage TROYED Crev E Pass	Fatal 7 0 3 1	Injur Serious 0 0	ies Minor 1 0	None 0 0
-Aircraft Information Make/Model - ZENAIR CH-200 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1550 No. of Seats - 2	Eng Make/Model -	LYCOMING 0-235-F2B 1 RECIPROCATING-CARBUR 125 HP	ELT S ETOR	Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 280/004 KTS Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR	Itinerary Last Departure Poid JUSTIN,TX Destination SAME AS ACC/INC ATC/Airspace Type of Flight Platype of Clearance Type Apch/Lndg	nt an - NONE	Airport OFF AI Airport LOUIS Runway Runway	SCHRIENER F Ident - Lth/Wid -	IELD N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND	Age - 49 Biennial Flight Review Current - YES Months Since - 14 Aircraft Type - CE-3	Medical Certifica Flic Total - 8 Make/Model- 2 310 Instrument- Multi-Eng -	tht Time (H 50 0 13	MEDICAL-WA ours) Last 24 Last 30 Last 90	IVERS/LIMI Hrs - 3 Days- 10 Days- 15	ŒΤ
Instrument Rating(s) - NONE 						
NATTATIVE E EXPERIMENTAL AIRPLANE WAS ON AN EXTENDER E ARPT & THE ACFT STRUCK A TREE & CRASHED E ENTIRE FUEL SYSTEM AT THE ACCIDENT SITE. EDENCE FOUND OF INTERNAL POWERPLANT FAILUR	BEFORE REACHING A CLEAR AR FUEL SYSTEM INTEGRITY WA	REA. LESS THAN ONE C	UP OF FUEL	WAS DRAINE	D FROM	

Time (Lcl) - 1040 CDT File No. - 1543 9/16/89 KERRVILLE, TX A/C Reg. No. N14LU Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL Finding(s) 1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND 2. FLUID, FUEL - EXHAUSTION 3. 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 Finding(s) 4. OBJECT - TREE(S)

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, DUE TO AN INADEQUATE SUPPLY OF FUEL.

----Probable Cause----

File No 1540 9/17/89 BRENE	AM, TX	A/C Reg. No. N9462V Time (Lc1) - 1154 C				- 1154 CDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)						None 0 0
Aircraft Information Make/Model - MOONEY M20E Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2575 No. of Seats - 4	Eng Make/N Number Eng Engine Typ Rated Powe	Model - LYCOMING gines - 1 De - RECIP-FU er - 200 F	; IO-360-A1A EL INJECTED	ELT S	Installed/A tall Warnin	activated ag System -	- YES/YES - YES
Weather Data Wx Briefing - FSS Method - UNK/NR Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 9.0 SM Lowest Sky/Clouds - 4000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart PORTER, TX Destination PECOS, TX ATC/Airspace TERED Type of Fli Type of Cle Type Apch/I	cure Point		Airport D	Proximity RPORT/STRIP	- N/A - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE		Medic Review - YES I - 5 M - UNK/NR I	al Certificat Fligh Otal - 22 Make/Model- 12 nstrument- ulti-Eng -	e - VALID t Time (Ho 26 75 0	MEDICAL-NO ours) Last 24 Last 30 Last 90 Rotorcr	MAIVERS/I Hrs - 1 Days- UNB Days- UNB	LIMIT K/NR K/NR 0
OURING CRUISE AT 6500 FT, OIL APPEARED ON THE PROMPTED THE PLT TO SECURE THE ENG. SUBSEQUEN DRG A FORCED LNDG. INV REVEALED A 90 DEG ALUMENG CASE. THE OIL LINE WAS STAINLESS STEEL & PLACE. A SVC INSTRN, ISSUED IN 1986, RCMNDD TO 1886 RELATED TO NUMEROUS "ENGINE FAILURES DETHAT BULLETIN, FAILURE TO RE-INSTALL THE GOVE MAINT PERSONNEL ACCOMPLISHED BOTH A TOP OVERH	WINDSCREEN. FORWATLY, THE ACFT WAS INUM FITTING ON THITS MOVEMENT WAS IHAT ALUMINUM FITTIUE TO OIL STARVATIONE LINE CLAMPS A	ARD VISIBILITY WOMED WHEN IT HIS EPROP GOVERNOR TO BE UPGRADED TO BE UPGRADED ON RESULTING FRAFIER MAINT HAD	AS SOON RESTR T A SMALL TRE. OIL LINE HAD ESTRAINED BY TO STAINLESS OM BROKEN GOV. BEEN THE CAUS	ICTED & SI E & ENCTRI FAILED WI CLAMPS, WI STEEL. A ERNOR LINE E OF NUMEI	EVERE VIBRA D UNEVEN TE HERE IT ENT HICH WERE N SVC BULLET ES." ACCORD ROUS ENG FA	RRAIN PERED THE OT IN PIN DATED ING TO	

File No. - 1540 9/17/89 BRENHAM, TX A/C Req. No. N9462V Time (Lcl) - 1154 CDT LOSS OF ENGINE POWER (TOTAL) - MECH FAILURE/MALF Phase of Operation CRUISE - NORMAL Finding(s) 1. LUBRICATING SYSTEM, OIL LINE - NOT SECURED 2. MAINTENANCE, TOP OVERHAUL - IMPROPER - OTHER MAINTENANCE PSNL 3. MAINTENANCE, SERVICE BULLETINS - NOT FOLLOWED - OTHER MAINTENANCE PSNL 4. LUBRICATING SYSTEM, OIL LINE - FAILURE, TOTAL 5. PROPELLER GOVERNOR CONTROL - LEAK 6. FLUID.OIL - EXHAUSTION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 7. OBJECT - TREE(S) Occurrence #4 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 8. TERRAIN CONDITION - ROUGH/UNEVEN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
IMPROPER MAINTENANCE, IMPROPERLY SECURED OIL LINE TO THE PROPELLER GOVERNOR, FAILURE OF THE PROPELLER GOVERNOR OIL
LINE, AND SUBSEQUENT LOSS OF OIL, WHICH RESULTED IN OIL EXHAUSTION. FACTORS RELATED TO THE ACCIDENT WERE: FAILURE OF
MAINTENANCE PERSONNEL TO FOLLOW THE SERVICE BULLETIN/INSTRUCTION, AND THE TREE AND ROUGH TERRAIN IN THE EMERGENCY
LANDING AREA.

File No 1512 10/26/89	SAN ANTONIO, TX	A/C Reg. No. N7		Time (Lcl)	- 1550 CDT	
Basic Information Type Operating Certificate-NONE (GI Type of Operation -PERSONAL Flight Conducted Under -14 CFR SACCIDENT OCCURRED DURING -DESCENT				Inju tal Serious 0 1 0 0	ries Minor 0 0	None 0 0
Aircraft Information Make/Model - MCCLISH/FUNK B85C Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1350 No. of Seats - 2	Eng Make/Mod Number Engin Engine Type Rated Power	el - CONTINENTAL es - 1 - RECIPROCATIN - 90 HP	C-90-12F G-CARBURETOR	ELT Installed/ Stall Warni	Activated ng System	- NO -N/A - NO
Environment/Operations Information	Itinerary Itinerary IFING Last Departur SAME AS ACC Destination LOCAL ATC/Airspace SCATTERED Type of Fligh BROKEN Type of Clear Type Apch/Lnd	e Point /INC t Plan - NONE ance - NONE	Air Ol Air Si	port Proximity FF AIRPORT/STRI port Data AN ANTONIO HORI	P ZON	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 54 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical C iew YES Total 7 Make/ B85 Instr Multi	Elimbe Die	VALID MEDICAL-W ne (Hours) Last 2 Last 3 Last 9 Rotorc		
Instrument Rating(s) - NONENarrative WHEN THE PILOT TOOK OFF, THERE WERE NUMER REPORTED IN ALL QUADRANTS & THE WIND WAS MADE RIGHT TURNS TO THE NORTH & BEGAN A C WHEN IT ENTERED A DESCENT & CRASHED. IMP? THE AIRCRAFT WAS FOUND.	REPORTED TO BE GUSTING T LIMB. ACCORDING TO WITNE	O 25 KTS. AFTER D SSES, THE ACFT WA	EPARTING FROM S CLIMBING IN	RUNWAY 16, THE A NOSE HIGH AT	PILOT TITUDE	

File No. - 1512 10/26/89 SAN ANTONIO, TX A/C Reg. No. N77707 Time (Lcl) - 1550 CDT _______

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

Finding(s)

1. WEATHER CONDITION - GUSTS

- 2. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 3. STALL INADVERTENT 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: FAILURE OF THE PILOT TO MAINTAIN AIRSPEED, WHICH RESULTED IN A STALL. THE UNFAVORABLE/GUSTY WIND CONDITION WAS A RELATED FACTOR.

Basic Information	L AVIATION) Aircra			Injur	 -	
Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBST Fire NONE	'ANTIAL	Fatal Crew 0 Pass 0	Serious 0 0	Minor 0 0	None 1 3
Aircraft Information Make/Model - CESSNA 172K Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Eng Make/Model - I Number Engines - Engine Type - F Rated Power -	ECIPROCATING-CA 150 HP	S	Installed/A	ctivated - g System -	- YES/N - YES
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 190/004 KTS	Ttinerary	- NONE - NONE	ON AIR Airport MACGUI Runway Runway Runway Runway	Data	8500/ UNK/NR	70
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 65 Biennial Flight Review Current - YES Months Since - 20 Aircraft Type - 172		ficate - VALID Flight Time (H - 187 1- 62 t- UNK/NR - 0	ourel		
Instrument Rating(s) - NONE						
-Narrative ACFT TOUCHED DOWN & BOUNCED AFTER A NORMA LAPSED. THE PLT STATED THAT THE ARPT WAS CL."	L APCH. AFTER THE INITIAI ON A MESA & WAS SUBJECT TO	BOUNCE, IT VEE	RED LEFT & THE NGING GUSTS OF	NOSE GEAR WIND AT GRO	DUND	

File No. - 1539 11/11/89 FABENS, TX A/C Reg. No. N7337G Time (Lcl) - 1200 MST

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

Finding(s)

1. WEATHER CONDITION - UNFAVORABLE WIND

2. FLARE - IMPROPER - PILOT IN COMMAND

3. RECOVERY FROM BOUNCED LANDING - IMPROPER - PILOT IN COMMAND

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

Finding(s)

4. 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 DURING LANDING AND INADEQUATE RECOVERY FROM THE ENSUING BOUNCED LANDING. THE UNFAVORABLE WIND WAS A RELATED FACTOR.

File No 1567 8/11/89 BULLF		A/C Reg. No. N84164 Time (Lcl) - 1320 MDT						
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft I SUBSTANTI Fire NONE)amage IAL	Crew Pass	Fatal 0 0	Injur Serious 1 1	ries Minor 0 1	None 0 0
Aircraft Information Make/Model - AEROFAB LAKE LA-250 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3140 No. of Seats - 4			MING TIO-540 P-FUEL INJEC	OTED	ELT S	Installed/Æ tall Warnir	Activated - ng System -	- YES/YES - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 270/005 KTS Visibility - 50.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depar LAKE POW Destinatio LOCAL	ture Point ELL,UT on		A	irport OFF AI irport LAKE P	Proximity RPORT/STRIE Data OWELL	>	
Instrument Rating(s) - AIRPLANE	Age - 46 Biennial Flight Current Months Since Aircraft Typ		Multi-Big	Lficate Flight - 3994 el- 387 nt- 5	- VALID Time (H	MEDICAL-WF ours) Last 24 Last 30 Last 90	AIVERS/LIMI Hrs - 5 Days- 69 Days- 205	TT
Narrative HE ATP PLT WAS PRACTICING "SPLASH AND GO LAN STIMATED WERE LESS THAN 5 KTS. HE SAID THAT OSSIBLY A LOG FLOATING BENEATH THE SURFACE; HE RUDDER PEDALS AND BROKE BOTH OF THE PLT'S RONT SEAT PSGR WAS EJECTED THRU THE WINDSHIE EPORTED THAT THE ACFT NOSED OVER AND CAME TO KI BOAT. THE PLT WAS AIR LIFTED TO PAGE, AR ULL PENETRATION IN THE AREA OF THE PLT'S FEE	DINGS" ON LAKE PO DURING THE LANDI THE ACFT SANK IN LEGS. HE SAID T LD ALONG WITH THE REST INVERTED IN IZONA, FOR EMERGE	WELL WITH TWO NG RUN, THE A 130 FT OF WAT HE IMPACT SER SEAT, SEAT E THE WATER.	PSGRS. HE ACFT STRUCK ER. THE OB ARATED THE BELT & SHOUL ALL 3 OCCUP	AN UNSE BJECT PE CABIN F DER HAR ANTS WE	EN SUBMINETRATE ROM THE NESS AT	ERGED OBJEC D THE HULL EMPENNAGE. TACHED. WI UED BY A PA	CT, BETWEEN THE TNESSES ASSING	

File No. - 1567 8/11/89 BULLFROG,UT A/C Reg. No. N84164 Time (Lcl) - 1320 MDT Occurrence #1 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL

Finding(s)

1. TERRAIN CONDITION - WATER

2. OBJECT - SUBMERGED OBJECT

Occurrence #2 Phase of Operation LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A SUBMERGED OBJECT IN THE LANDING AREA.

File No 1405 8/14/89	BOUNTIFUL, UT	A/C Reg. No. N3128P Time (Lcl) - 0825					
Basic Information Type Operating Certificate-NONE (G Type of Operation -PERSONA Flight Conducted Under -14 CFR Accident Occurred During -LANDING	L 91	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 0 0	ies Minor 0 0	None 1 1
Aircraft Information Make/Model - CONSOLIDATED LAKE Landing Gear - TRICYCLE-RETRACTAB Max Gross Wt - 2690 No. of Seats - 4	LE Number F Engine 1 Rated Po	e/Model - LYCOMING IC Engines - 1 Type - RECIP-FUEL Ower - 200 HP			nstalled/A		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 020 KTS Visibility - 30.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary EFING Last Depa GARDEN Destinati SAME AS ATC/Airspac SCATTERED Type of E Type of C	arture Point CITY,UT Lon B ACC/INC	А	ON AIRP irport D BOUNTIF Runway		4700/ ASPHALT	60
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 57 Biennial Flight Current Months Sind Aircraft Ty	Medical Review - NO Tota ce - 30 Make	Certificate Flight al - 1000 e/Model- 50 rument-	- EXPIRE Time (Ho	D urs) Last 24 Last 30 Last 90	Hrs - 2 Days- 10 Days- 15	
Instrument Rating(s) - NONE Narrative DRG ARRIVAL, THE PLT MADE A STRAIGHT-IN HE RPRTD THAT DRG THE LANDING ROLL, THE DNTO THE RWY. HOWEVER, THE PLT LOST DIRE COMING TO REST.	ACFT WAS LIFTED BY A	GUST OF WIND. HE APE	LIED POWER &	THE ACF	T SETTLED E	BACK	

File No. - 1405 8/14/89 BOUNTIFUL, UT A/C Reg. No. N3128P Time (Lcl) - 0825 MDT

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

Finding(s)

- 1. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 2. WEATHER CONDITION UNFAVORABLE WIND
- 3. WEATHER CONDITION CROSSWIND
- 4. WEATHER CONDITION GUSTS
- 5. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 6. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 7. GROUND LOOP/SWERVE UNCONTROLLED -

Occurrence #2 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

8. OBJECT - AIRCRAFT PARKED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE COMPENSATION FOR WIND CONDITIONS BY THE PILOT AND HIS FAILURE TO MAINTAIN DIRECTIONAL CONTROL DURING THE LANDING. THE PILOT'S INADEQUATE PREFLIGHT PREPARATION (LACK OF A WEATHER BRIEFING) AND THE WEATHER CONDITIONS WERE CONTRIBUTING FACTORS.

File No 1565 8/22/89 LOGAN	,UT	A/C Reg. No. N	6697G	Ti	me (Lcl) -	2145 MDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0			None 1 0
Aircraft Information Make/Model - CESSNA 150-L Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2							YES/NO YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM	Itinerary Last Depart REXBURG, I Destination LOGAN, UT ATC/Airspace Type of Fli Type of Cle Type Apch/L	ure Point D	LANDING	Airport P. OFF AIR Airport D. Runway Runway Runway Runway	roximity PORT/STRIP ata Ident - Lth/Wid - Surface - Status -	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND						WAIVERS/L Hrs - 3 Days- 22 Days- 51	IMIT
Instrument Rating(s) - NONE Narrative THE PRIVATE PLT WAS RETURNING FROM A NIGHT X- DESTINATION, WHEN THE ENGINE SUDDENLY LOST PO LANDING ROLL, THE PLANE WENT THRU A FENCE, NO TANK OF FUEL & SHOULD HAVE HAD 1 HR LEFT. HOW ENGINE FAILURE. NO FUEL WAS FOUND IN THE CARB RIGHT TANK & NONE IN THE LEFT. NO EVIDENCE OF	COUNTRY FLT. HE SA WER & HE WAS UNABL SED OVER & CAME TO EVER, A POST-ACDNT URETOR, FUEL GASCO	ID HE WAS AT NORMALE TO RESTART IT. HE REST INVERTED. THE INVESTIGATION REVELLATOR OR FUEL PUMP	L CRUISE A' E LANDED II E PLT SAID EALED NO E' . ONE GALLO	F 8000 FT A N A FIELD. HE HAD FLO VIDENCE OF	8 MI FROM DURING THE DWN 3 HRS (A MECHANIC	M THE HE ON THIS CAL	

File No. - 1565 8/22/89 LOGAN,UT A/C Reg. No. N6697G Time (Lcl) - 2145 MDT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation CRUISE - NORMAL

Finding(s)

1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND

2. FLUID, FUEL - EXHAUSTION

3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING - ROLL

Finding(s)

4. LIGHT CONDITION - DARK NIGHT

5. OBJECT - FENCE

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: IMPROPER PLANNING/DECISION BY THE PILOT, WHICH RESULTED IN FUEL EXHAUSTION, DUE TO LACK OF FUEL. FACTORS RELATED TO THE ACCIDENT WERE: DARKNESS AND A FENCE IN THE EMERGENCY LANDING AREA.

File No 1566 8/30/89 DUT	CH JOHN,UT A/C Reg. No.	N7111W Time (Lcl) -	1215 MDT
Basic Information Type Operating Certificate-NONE (GENE Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	NONE	Pass 0 0	es Minor None 0 1 0 1
Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2400 No. of Seats - 4	Number Engines - 1	-360-A3A ELT Installed/Ac Stall Warning	tivated - YES/NO System - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - ACFT RADIO Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 023 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SAME AS ACC/INC Destination HEBER,UT ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - NONE	Airport Proximity ON AIRPORT Airport Data DUTCH JOHN Runway Ident - Runway Lth/Wid - Runway Surface - Runway Status -	25 4400/ 100 DIRT SOFT
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Biennial Flight Review	Certificate - VALID MEDICAL-WAI Flight Time (Hours) al - 116 Last 24 e/Model- 116 Last 30 trument- UNK/NR Last 90 ti-Eng - UNK/NR Rotorcra	•
Instrument Rating(s) - NONE			
Narrative HE PLT RPRTD THAT HE & A FRIEND WERE TAKING URING THE TAKEOFF GROUND RUN, THE PLANE ENGLISHED TO THE LEFT. THE PLT ATTEMPTED TO COLANE DEPARTED THE RUNWAY TO THE LEFT. THE 10 FT HIGH CEDAR TREE ABOUT 8 FT ABOVE THE COLORS	COUNTERED A GUST OF WIND THAT HE ESTIME ORRECT WITH RIGHT RUDDER. HE SAID HE MAD THE PLANE FLEW OVER SAGE BRUSH BESIDE THE	MATED AS 50 KTS. THE PLANE TURNE PULLED THE NOSE OFF THE GROUND A RUNWAY, BUT THE LEFT WING STRUC	D S THE

File No. - 1566 8/30/89 DUTCH JOHN, UT A/C Req. No. N7111W Time (Lcl) - 1215 MDT

Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

1. WEATHER CONDITION - UNFAVORABLE WIND

2. WEATHER CONDITION - GUSTS

- 3. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 4. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND

5. GROUND LOOP/SWERVE - UNCONTROLLED - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation TAKEOFF

Finding(s)

6. TERRAIN CONDITION - HIGH VEGETATION

7. OBJECT - TREE(S)

Occurrence #3 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: INADEQUATE COMPENSATION FOR THE WIND CONDITIONS BY THE PILOT, RESULTING IN A LOSS OF CONTROL DURING THE TAKEOFF GROUND RUN. FACTORS RELATED TO THE ACCIDENT WERE: THE UNFAVORABLE (VARIABLE/GUSTY) WIND CONDITION, AND THE HIGH VEGETATION AND TREE BESIDE THE RUNWAY.

File No 1573 8/31/89 DELTA	,UT	A/C Reg. No. N	6372K	T	ime (Lcl) -	- 2000 MDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -INSTRUCTIONA Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	L AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 0 0	Minor 0	None 1 0
Aircraft Information Make/Model - CESSNA 150M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2	Number Engir Engine Type	- RECIPROCATI	NG-CARBURE	st TOR	all Warnin	g 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- CALM Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	Itinerary Last Departur SAME AS ACC Destination LOCAL ATC/Airspace Type of Fligh Type of Clear	e Point		Airport I ON AIRI Airport I DELTA Runway Runway Runway	?roximity PORT	12 5935/ ASPHALT	85
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 36 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical riew N/A Tota N/A Make N/A Inst	Certificate Flight 1 - 14 /Model- 14 rument-	e - VALID t Time (Ho	MEDICAL-NO burs) Last 24 Last 30 Last 90	Hrs - 1	
<pre>Instrument Rating(s) - NONE</pre>							
THE STUDENT PLT WAS MAKING A LOCAL SUPERVISED TOUCH-&-GO LANDING WITHOUT INCIDENT. AFTER A SWERVED LEFT, DEPARTED THE RWY & NOSED OVER. AIRPLANE NOSED OVER & CAME TO REST INVERTED.	SECOND TOUCH-&-GO,	THE STUDENT ADDE	D POWER TO	TAKE OFF.	THE PLAN	E THEN	

File No. - 1573 8/31/89 DELTA, UT A/C Reg. No. N6372K Time (Lcl) - 2000 MDT

Phase of Operation TAKEOFF - GROUND RUN

Occurrence #1 LOSS OF CONTROL - ON GROUND

Finding(s)

1. TOUCH-AND-GO - INITIATED - PILOT IN COMMAND

- 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 TAKEOFF - GROUND RUN

Finding(s)

4. TERRAIN CONDITION - SOFT

Occurrence #3 NOSE OVER

Phase of Operation TAKEOFF - GROUND RUN

----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 A GROUND SWERVE. SOFT TERRAIN BESIDE THE RUNWAY WAS A RELATED FACTOR.

File No 1575 9/01/89 MOAB,		A/C Reg. No. N			ime (Lcl) - Injur		
Basic Information Type Operating Certificate-NONE (GENERA Type of OperationPERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred DuringLANDING		SUBSTANTIAL Fire NONE	Créw Pass	Fatal 0 0	Serious 0 0	Minor 0 0	None 1 1
-Aircraft Information Make/Model - CESSNA 182L Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2800 No. of Seats - 4	Eng Make/ Number En Engine Ty	Model - CONTINENTAL gines - 1 pe - RECIPROCATI er - 230 HP		s	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- 010 KTS Visibility - 25.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Destinatio SAME AS	n ACC/INC	IT-IN	ON AIR Airport CANYON Runway Runway Runway	Data LANDS	ASPHALT	75
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 57 Biennial Flight Current Months Since Aircraft Typ				MEDICAL-NO ours) Last 24 Last 30 Last 90		
Instrument Rating(s) - NONE	E PLT SAID THAT A ON RWY 3 WITHOUT	T TOUCHDOWN, THE PL FURTHER INCIDENT.	ANE ENCOUN' AFTER LAN	TERED A W	IND GUST AN FOUND A WRI	D LANDED NKLE IN	

File No. - 1575 9/01/89 MOAB,UT A/C Reg. No. N42027 Time (Lcl) - 1730 MDT

Occurrence #1 HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 2. WEATHER CONDITION UNFAVORABLE WIND
- 3. WEATHER CONDITION GUSTS
- 4. COMPENSATION FÓR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 5. FLARE NOT ATTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE COMPENSATION FOR THE WIND CONDITIONS BY THE PILOT, AND HIS FAILURE TO ATTAIN A FLARE. THE UNFAVORABLE (VARIABLE & GUSTY) WIND CONDITION WAS A RELATED FACTOR.

File No 1425 10/14/89 SAL	LAKE CITY,UT	A/C Reg.	No. N503D	A 	Т	ime (Lcl)	- 1419 MST	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -DELTA AIRL Type of Operation -SCHEDULED, Flight Conducted Under -14 CFR 121 Accident Occurred During -STANDING								None 6 11 0
Aircraft Information Make/Model - BOEING 727-232 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 185200 No. of Seats - 155								
Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - UNK/NR Wind Dir/Speed- UNK/NR Visibility - 20.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - UNK/NR Obstructions to Vision- UNK/NR Precipitation - UNK/NR Condition of Light - DAYLIGHT	Itinerary Last Depar SAME AS Destinatio EDMONTON	ture Point ACC/INC n CANADA			Airport ON AIR Airport SALT L	Proximity PORT Data AKE CITY		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND,ME LAND	Age - 45 Biennial Flight Current Months Since Aircraft Typ	Med Review - YES - 0 e - 727	ical Cert. Total Make/Mod Instrume	ificate Flight - 150 el- 500 nt- 3 g - 15	- VALID Time (H 00 0 600	MEDICAL-WA ours) Last 24 Last 30 Last 90	AIVERS/LIM 4 Hrs - 0 0 Days- 70 0 Days- 20	IT O
Instrument Rating(s) - AIRPLANE								
Narrative HE CREW HEARD A MUFFLED EXPLOSION & SAW FLAT OCATION OF FIRE PREVENTED CREW FROM RETURNING CREW EVACUATED ACFT. SECOND OFFICER, LAST FTER HAVING DIFFICULTY IN LOCATING AN EXIT REFLIGHT & REPLACED OXYGEN CYLINDERS. WHILE XYGEN SYSTEM FLOW CONTROL UNIT. HE ATTEMPTE HE PASSENGER OXYGEN SYSTEM HAD 6 LOW OXYGEN FLAGGED" BY COMPANY AUTOMATED TREND ANALYSI NSPECTION OF DELTA'S FLEET REVEALED 35 OXYGEN	MES COMING FROM THE ING TO COCKPIT TO NOT LEAVE, COULD NOT BECAUSE OF SMOKE. TO HAVE CFR NOTE QUANTITY MAINTENANTS PROGRAM BECAUSE	OTIFY CFR & IL T REACH REAR A A MECHANIC NOT RICAL EQUIP BA FIED OF THE FI NCE WRITE-UPS OF THE JOB TIT	LUMINATE I IRSTAIRS ED LOW PA: Y THE MECI RE USING I DURING PRI	EMERG F & EXITE SSENGER HANIC S A HAND EVIOUS	LOOR LIG D VIA EM OXYGEN AW A WHI HELD RAD 30 DAYS	HTING. PASS ERG WINDOW SUPPLY DURI TE FLASH EN IO TO NO AN BUT WAS NOT	SENGERS EXIT ING NGULF THE VAIL.	

File No. - 1425 10/14/89 SALT LAKE CITY,UT A/C Reg. No. N503DA Time (Lcl) - 1419 MST

Occurrence #1

FIRE/EXPLOSION

Phase of Operation STANDING

Finding(s)

1. OXYGEN SYSTEM, PASSENGER - LEAK

- 2. OXYGEN SYSTEM, PASSENGER UNDETERMINED
- 3. MAINTENANCE INADEQUATE COMPANY MAINTENANCE PSNL
- INSUFFICIENT STANDARDS/REQUIREMENTS, AIRCRAFT COMPANY/OPERATOR MGMT
- 5. EMERGENCY PROCEDURE INADEQUATE COMPANY/OPERATOR MGMT
- 6. EMERGENCY LIGHTS NOT POSSIBLE -
- 7. EVACUATION DELAYED COPILOT/SECOND PILOT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
A FIRE WHICH STARTED IN THE PASSENGER OXYGEN SYSTEM FOR UNDETERMINED REASONS. CONTRIBUTING TO THE ACCIDENT WAS THE
FAILURE OF DELTA AIRLINES TO RECOGNIZE, ATTEND TO AND CORRECT REPEATED LEAKS IN THE OXYGEN SYSTEM.

File No 1404 8/03/89 MIDLA	AND, VA A/C Re	g. No. N13906	Time	(Lcl) -	1610 EDT	
Basic Information Type Operating Certificate-NONE (GENERY Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Damage TIAL Crew Pass		0	Minor 0 0	1 0
Aircraft Information Make/Model - TRAVEL AIR B-4000 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2900 No. of Seats - 3	Eng Make/Model - WR Number Engines - 1	GHT R-760-8	ELT Ins			
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 045/005 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary	NONE NONE	Airport Pro ON AIRPOR Airport Dat WARRENTON Runway Id Runway Lt Runway Su Runway St	T a ent - h/Wid - rface -	4106/ ASPHALT	60
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 45 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - C-207	Medical Certificate Flight Total - 172 Make/Model- 2 Instrument-	e - VALID ME : Time (Hour 22	DICAL-NO s) Last 24 Last 30 Last 90	WAIVERS/ Hrs - UN Days- 36 Days- 49	LIMIT K/NR
Instrument Rating(s) - AIRPLANENarrative E PLT RPRTD HE WAS LANDING ON RWY 32 WITH A NDING FLARE, A GUST OF WIND FROM THE WEST F CENTER THE ACFT; HOWEVER, IT TOUCHED DOWN E RIGHT MAIN LANDING GEAR. THE ACFT THEN FI LY 2 HRS IN THIS MAKE & MODEL OF ACFT.	USHED THE ACFT TO THE RIGHT IN A CRAB. SUBSEQUENTLY, THE	SIDE OF THE RWY. HE SIDE LOADS FROM TO	APPLIED LE HE LANDING C	FT RUDDEI OL LAP SED	R	

File No. - 1404 8/03/89 MIDLAND, VA A/C Reg. No. N13906 Time (Lcl) - 1610 EDT Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. WEATHER CONDITION - UNFAVORABLE WIND 2. WEATHER CONDITION - CROSSWIND 3. WEATHER CONDITION - GUSTS 4. COMPENSATION FOR WIND CONDITIONS - IMPROPER - PILOT IN COMMAND 5. FLARE - IMPROPER - PILOT IN COMMAND 6. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND Occurrence #2 MAIN GEAR COLLAPSED Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 7. LANDING GEAR, MAIN GEAR - OVERLOAD NOSE OVER Occurrence #3 Phase of Operation LANDING ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S IMPROPER COMPENSATION FOR WIND CONDITIONS AND IMPROPER FLARE DURING THE LANDING. CONTRIBUTING FACTORS WERE:
THE WIND CONDITIONS AND THE PILOT'S LACK OF EXPERIENCE IN THIS MAKE AND MODEL OF AIRCRAFT.

File No 1403 8/13/89 LEESB	URG, VA	A/C Reg. No.	Time (Lcl) - 0300 EDT					
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 0 0	ries Minor 0 0	None 1 1	
Aircraft Information Make/Model - PIPER PA-28-161 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2440 No. of Seats - 4	Eng Make Number E Engine T Rated Po	e/Model - LYCOMING (Engines - 1 Type - RECIPROCAT	D-320-D3G FING-CARBURE	ELT : St	Installed/A	Activated - ag System -	- YES/NO - YES	
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 - 8.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - BROKEN	Itinerary Last Depa WINCHES Destinati LEESBUF ATC/Airspac Type of F	arture Point STER,VA .on RG,VA		Airport I OFF AIR Airport I Runway Runway Runway	Proximity RPORT/STRIE) - NI / D		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 29 Biennial Flight Current Months Sinc Aircraft Ty	Medical Review - YES Tot ce - 1 Mak rpe - PA-28 Ins	Certificat Fligh al - 72 ce/Model- 72 strument-	e - VALID t Time (Ho	MEDICAL-WA Durs) Last 24 Last 30 Last 90	AIVERS/LIMI Hrs - 1 Days- 12 Days- 25		
Instrument Rating(s) - NONE								
Narrative E PLT WAS ON A ROUND ROBIN FLT FROM LEESBUR RX 4 HR STOPOVER AT WINCHESTER, HE DID NOT THE RTRN FLT, HE HAD TO DSCND DUE TO A LOW NCHESTER; HOWEVER, THE WX IN THAT DRCTN HAD ELECTED TO REVERSE COURSE AGAIN & CONT TO ECTED TO LAND ON A HIGHWAY (ROUTE 15). DRG MAGING THE ACFT.	UPDATE HIS WX BE ER CEILING. HE S ALSO DETERIORAT HIS ORIGINAL DES	RIEFING BEFORE DEPG TATED THAT HE PERFO ED. BEING CONCERNED TN (LEESBURG). THE	ON THE RTRN ORMED A 180 D ABOUT THE N WX CONTD TO	TRIP TO I DEG TURN T WX & HIS I DETERIOR	LEESBURG. W TO RETURN T LOW FUEL ST ATE, SO HE	HILE O ATE, THEN		

File No. - 1403 8/13/89 LEESBURG, VA A/C Reg. No. N4325V Time (Lcl) - 0300 EDT

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER

Phase of Operation CRUISE - NORMAL

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION FOG
- 4. VFR FLIGHT INTO IMC INADVERTENT PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING - ROLL

Finding(s)

- 5. PRECAUTIONARY LANDING PERFORMED -
- 6. LIGHT CONDITION DARK NIGHT
- 7. OBJECT POLE
- 8. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND

----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 HIS INADVERTENT FLIGHT INTO INSTRUMENT METEOROLOGICAL CONDITIONS (IMC), AND HIS FAILURE TO MAINTAIN PROPER ALIGNMENT, WHILE LANDING AT NIGHT ON A ROAD. THE WEATHER CONDITIONS, DARK NIGHT, AND POLE/REFLECTORS BESIDE THE ROAD WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

File No 1402 8/17/89 MANA	SSAS, VA	A/C Reg. No. N8	3557н	Time (Lcl) - 1130 EDT				
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -INSTRUCTION Flight Conducted Under -14 CFR 91 Accident Occurred During -HOVER	AL AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	F		Injuri erious	es Minor 0 0	None 2 0	
Aircraft Information Make/Model - ROBINSON R22 Landing Gear - SKID Max Gross Wt - 1370 No. of Seats - 2	Number Engi	del - LYCOMING 0-3 nes - 1 - RECIPROCATIN - 160 HP		Stal		tivated ·		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 340/005 KTS Visibility - 5.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary G Last Departu: SAME AS ACC Destination LOCAL ATC/Airspace Type of Fligh Type of Clear	re Point C/INC	Ai Ai I	rport Promoted Promoted Propert Data MANASSAS Manway Ida Runway Lth Runway Sta	MUNI ent - n/Wid -	UNK/NR		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND HELICOPTER	Age - 31 Biennial Flight Rev Current - Months Since - Aircraft Type -	Medical C Jiew - YES Total - 9 Make/ - R22 Instr	Certificate - Flight T: - 850 Model- 350 Tument- UNK/NI -Eng - UNK/NI	ime (Hours	.)	•		
Instrument Rating(s) - NONE Narrative IS WAS THE STUDENT'S 1ST FLT IN A HELICOPT KE CONTROL THE HELICOPTER, WHILE HE (THE C LICOPTER MOVED TO THE LEFT & THE STUDENT C NTROL OF THE HELICOPTER, BUT THE STUDENT O' E HELICOPTER ROLLED OVER.	FI) FOLLOWED THRU LIC ORRECTED BY APPLYING	HTLY ON THE CONTR FULL RIGHT CYCLIC	ROLS. THE CFI	RPRTD THA	TAKE			

File No. - 1402 8/17/89 MANASSAS, VA A/C Req. No. N8557H Time (Lcl) - 1130 EDT

Occurrence #1

LOSS OF CONTROL - IN FLIGHT

Phase of Operation HOVER

Finding(s)

1. CYCLIC - IMPROPER USE OF - DUAL STUDENT

- LACK OF TOTAL EXPERIENCE DUAL STUDENT
- 3. REMEDIAL ACTION ATTEMPTED PILOT IN COMMAND(CFI)
- 4. RELINQUISHING OF CONTROL NOT PERFORMED DUAL STUDENT

Occurrence #2

ROLL OVER

Phase of Operation HOVER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THE CYCLIC CONTROL BY THE STUDENT PILOT AND HIS FAILURE TO RELINQUISH CONTROL OF THE HELICOPTER TO THE INSTRUCTOR (CFI). A CONTRIBUTING FACTOR WAS THE STUDENT'S LACK OF EXPERIENCE.

File No 1477 9/17/89	HAYMARKET, VA	A/C Reg. No.	N40892	Time (Lcl) - 1530 ED	T
Basic Information Type Operating Certificate-NONI Type of Operation -PERS Flight Conducted Under -14 (Accident Occurred During -APPR	SONAL EFR 91	Aircraft Damage DESTROYED Fire NONE	F Crew Pass	atal Ser 0 0	Injuries ious Minor 0 1 0 0	None 0 0
Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2500 No. of Seats - 4	Eng Make/ Number En Engine Ty Rated Pow	Model - LYCOMING O gines - 1 pe - RECIPROCAT er - 180 HP	-360-A4A ING-CARBURETOR	ELT Insta Stall	lled/Activated Warning System	- YES-UNK/NR - YES
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 300/006 KTS Visibility - 12.0 SM Lowest Sky/Clouds - 4000 Lowest Ceiling - 9000 Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLE	Itinerary Last Depar MT AIRY, Destinatio GAITHERS ATC/Airspace FT SCATTERED Type of F1 FT BROKEN Type Apch/	ture Point NC n BURG,MD	Ai Ai	rport Proximal Proximal Proximal Propert Data Runway Iden Runway Lth/Runway Surf Runway State	mity /STRIP t - N/A Wid - N/A ace - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) FOREIGN, PRIVATE SE LAND	Age - 19 Biennial Flight Current Months Since Aircraft Typ	Medical Review - UNK/NR Toto - UNK/NR Mak e - UNK/NR Ins Mul	Certificate - Flight T al - 114 e/Model- 12 trument- 3 ti-Eng -	VALID MEDII ime (Hours) Li 0 Li 0 Re	CAL-NO WAIVERS ast 24 Hrs - 8 ast 30 Days- U ast 90 Days- 9 otorcraft -	/LIMIT NK/NR 3 0
Instrument Rating(s) - NON	IE					
Narrative AFTER NEARLY 3 HRS OF FLT, THE ENG BE PUMP, AND MOVED THE MIXTURE TO RICH, IN A PASTURE; HOWEVER, BEFORE REACHIN THE FUEL SELECTOR WAS POSITIONED TO OF FUEL. DRG A POST-ACDNT TEST RUN, T	BUT THE ENG LOST ALL POWE G THE PASTURE, THE ACFT C THE LEFT TANK, WHICH CONTA	R. THE PLT ATTEMPT! ONTACTED TREES & C! INED APRX 1 PINT O!	ED TO MAKE AN RASHED. AN EXA F FUEL. THE RI	EMERGENCY L M OF THE ACI GHT TANK WAS	ANDING FT REVEALED S FULL	

File No. - 1477 9/17/89 HAYMARKET, VA A/C Reg. No. N40892 Time (Lcl) - 1530 EDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL 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 IN FLIGHT COLLISION WITH OBJECT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 4. OBJECT - TREE (S) Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation APPROACH ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THE FUEL SELECTOR, WHICH RESULTED IN FUEL STARVATION & LOSS OF ENGINE POWER; AND IMPROPER USE OF EMERGENCY PROCEDURES AFTER LOSS OF ENGINE POWER. THE PRESENCE OF HIGH OBSTRUCTIONS (TREES) IN THE APPROACH PATH TO THE EMERGENCY LANDING AREA WAS A FACTOR.

File No 1448 11/05/89 WINDM	LL POINT, VA	A/C Reg. No. N	N4519L	Time (Lcl) - 1200 EST				
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft Damage SUBSTANTIAL Fire	Crew	Fatal 0	Injur: Serious 0	ies Minor 0 0	None 1 0	
Aircraft Information Make/Model - GULFSTREAM AMERICAN AA-S Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2400 No. of Seats - 4	Eng Make/M Number Eng Engine Typ Rated Powe	Model - LYCOMING O- rines - 1 le - RECIPROCATI r - 180 HP	-360-A4K ING-CARBURE	ELT I St IOR	Installed/Actall Warning	ctivated - g System -	· YES	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Depart SALISBURY Destination ATLANTIC	ure Point ,MD CITY,NJ		Airport E OFF AIF Airport E	Proximity RPORT/STRIP Data			
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 34 Biennial Flight R Current Months Since Aircraft Type	Medical eview Tota - N/A Make - N/A Inst	Certificate Flight al - 47 2/Model- 47 crument-	e - VALID Time (Ho	MEDICAL-NO ours) Last 24 Last 30 Last 90	WAIVERS/I Hrs - 2 Days- 6 Days- 24	IMIT	
Instrument Rating(s) - NONE								
Narrative THE ACDNT OCCURRED ON THE 2ND LEG OF A SOLO "F BEFORE THAT LEG, THE ENG OIL LEVEL WAS 5 QTS. UNDETERMINED REASONS, THE STUDENT FLEW SOUTHWE THE OIL PRESSURE DROPPED, & THE ENG LOST POWEF WAS OVER THE CHESAPEAKE BAY & THE STUDENT WAS NOT NOTICE ANY OIL LEAKS DURING THE OCCURRENCE DITCHING, THEN SANK. HE SWAM FOR ABOUT 40 MIN,	ROUND ROBIN" X-COU THE 2ND LEG OF TH ST. HE RPRTD THAT C. ALSO, HE SAID T UNABLE TO GLIDE T C. THE STUDENT RPR	NTRY FLT. THE STUD E PLANNED FLT WAS ABOUT 20 MIN INTO HE PROP CAME TO A HE ACFT TO LAND, S TD THAT THE ACFT S	DENT RPRTD TOWARD THE DESCRIPTION THE FLT, A STOP & DID TO HE DITCHE TAYED AFLOA	NORTHEAST AT AN ALT NOT WINDM ED IT IN T AT FOR ABO	F; HOWEVER, OF 3500' MS MILL. THE ACTHE BAY. HE OUT 20 MIN A	FOR SL, CFT DID		

File No. - 1448 11/05/89 WINDMILL POINT, VA A/C Reg. No. N4519L Time (Lcl) - 1200 EST

Occurrence #1 LOSS OF ENGINE POWER
Phase of Operation CRUISE

Finding(s)
1. FLUID, OIL - STARVATION

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

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

Finding(s)
2. TERRAIN CONDITION - WATER

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER DUE TO OIL STARVATION.

----Probable Cause----

File No 1407 11/14/89 1 Basic Information Type Operating Certificate-NONE (GI Type of Operation -INSTRUCT Flight Conducted Under -14 CFR 1 Accident Occurred During -LANDING	ENERAL AVIATION) A FIONAL F		E Crew Pass	Fatal 0 0		ies Minor 0 0	None 2 0
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1675 No. of Seats - 2	Eng Make/Mode	l - LYCOMING 0-235	-N2C	ELT In		ctivated ·	- YES/YE
Environment/Operations Information	Itinerary EFING Last Departure SAME AS ACC/: Destination LOCAL ATC/Airspace SCATTERED Type of Flight BROKEN Type of Cleara	INC Plan - NONE	Ai	Runway S	RT ta OUNTY	ASPHALT	50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Months Since - S Aircraft Type - I	ew YES Total 5 Make/Mo PA-28 Instrum	tificate - Flight T - 467 del- 296 ent- 13 ng - 2	ime (Hou	rs) Last 24 Last 30 Last 90	Hrs - 2 Days- 24 Days- 35	
Instrument Rating(s) - AIRPLANNarrative E INSTRUCTOR (CFI) RPRTD THE STUDENT WARRECTED FOR A X-WIND. HE RPRTD THAT A CFT RUDDER TO CORRECT THE SITUATION; HOW CONTACTED THE GROUND IN A NOSE LOW ATT	AS HIGH & FAST ON FINAL APO GUST OF WIND DRIFTED THE AC JEVER, THE ACFT CONTACTED A	CFT TO THE RIGHT OF	F THE RWY.	HE APPL	IED POWER	&	

File No. - 1407 11/14/89 FRONT ROYAL, VA Time (Lcl) - 1245 EST A/C Req. No. N96096

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. ALTITUDE MISJUDGED DUAL STUDENT
- 2. AIRSPEED EXCESSIVE DUAL STUDENT
- 3. REMEDIAL ACTION DELAYED PILOT IN COMMAND (CFI)
- 4. WEATHER CONDITION CROSSWIND
- 5. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND (CFI)
- 6. OBJECT RUNWAY LIGHT

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE INSTRUCTOR PILOT (CFI) TO MAINTAIN PROPER RUNWAY ALIGNMENT WITH THE RUNWAY. CONTRIBUTING FACTORS WERE: THE STUDENT PILOT'S HIGH AND FAST APPROACH, THE CFI'S DELAY IN INITIATING REMEDIAL ACTION, THE CROSSWIND, AND THE RUNWAY LIGHT.

File No 1489 6/11/89 EVERE	TT, WA A/C	Reg. No. N13AT	T:	ime (Lcl) -	1105 PDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -FLT TEST Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION) Aircra DESTI Fire NONE	ft Damage OYED Crew Pass				None 0 0
Aircraft Information	Eng Make/Model - F Number Engines - Engine Type - F	ONDA CIVIC 1200 CC 1 ECIPROCATING-CARBUR	ELT : St ETOR	Installed/Adtall Warning	ctivated - g System -	- NO -N/A - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 330/005 KTS Visibility - 50.0 SM Lowest Sky/Clouds - 20000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poir EVERETT,WA Destination LOCAL	- NONE - VFR - FORCED LANDING	Airport I OFF AIR Airport I PAINE I Runway Runway Runway Runway	Proximity RPORT/STRIP Data FIELD Ident - Lth/Wid - Surface - Status -	34L 9010/ 1 ASPHALT DRY	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND					•	
Instrument Rating(s) - AIRPLANE Narrative THE HOMEBUILT ACFT WAS ON ITS INITIAL TEST FLT BEEN EXPERIENCED. RPRTDLY, THERE HAD BEEN PROE WITNESS NOTED THE ENG HAD STOPPED RUNNING 2 TI MANY "CRANKS" OR "SPINS OF THE PROP." ALSO, T DEPART, THE "ENGINE WAS RUNNING AT HIGH RPM IN AT LOW ALT, TURNED NORTH, THEN ENTERED A WIDE STEEP DSCNT & DISAPPEARED BEHIND TREES. SUBSEQ WAS RETRIEVED, NO APPARENT PREIMPACT STRUCTURA WERE FOUND INSIDE THE ENG COMPARTMENT, BUT A	C, WHEN IT CRASHED. SVRL ENGRES WITH THE MIXTURE CONMES AS THE PLT WAS TAXIIN THE WITNESS NOTED THAT WHIS ORDER (HE PRESUMED) TO PURN TO THE SOUTH. TWR PSUBSTRAY, IT IMPACTED IN AUL FAILURE OF THE ENG OR F	TROL SYS & THE ENG OF TO TAKE OFF. BOTH LE THE PLT WAS WAIT EEP IT GOING." AFT BAY ABT 2 MI WEST OF CESSORIES WAS FOUND	HAD BEEN OV TIMES, IT ING FOR ANC ER TAKEOFF, EGAN DSCNDO F THE ARPT. D. SOOT/DAF	VERHEATING. WAS RESTARD OTHER ACFT TO THE ACFT FO G, THEN ENTE AFTER THE RK DISCOLORA	ONE TED AFTER TO REMAINED ERED A WRECKAGE	

6/11/89 A/C Reg. No. N13AT Time (Lcl) - 1105 PDT File No. - 1489 EVERETT, WA Occurrence #1 LOSS OF ENGINE POWER (TOTAL) - NON-MECHANICAL Phase of Operation MANEUVERING Finding(s) 1. MAINTENANCE - INADEQUATE - PILOT IN COMMAND 2. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT - PERFORMED - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY _____ Occurrence #3 LOSS OF CONTROL - IN FLIGHT Phase of Operation DESCENT - EMERGENCY Finding(s) 3. AIRSPEED (VS) - NOT MAINTAINED - PILOT IN COMMAND 4. STALL - INADVERTENT - PILOT IN COMMAND Occurrence #4 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:

----Probable Cause----

INADEQUATE MAINTENANCE BY THE PILOT/OWNER/BUILDER, HIS OPERATION OF THE AIRCRAFT WITH A KNOWN DEFICIENCY, AND HIS FAILURE TO MAINTAIN ADEQUATE AIRSPEED DURING AN EMERGENCY DESCENT, WHICH RESULTED IN AN INADVERTENT STALL.

File No 1582 5/14/89 WAUNA			ime (Lcl) - 0913	CDT
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraft Damage SUBSTANTIAL Fire NONE	Fatal Crew 0 Pass 0		
Aircraft Information Make/Model - PIPER PA-24-250 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2900 No. of Seats - 4				
Environment/Operations Information Weather Data Wy Briefing - NO PECOPD OF RETEFING	Itinerary Last Departure Point WAUNAKEE,IL Destination MORRIS,IL ATC/Airspace Type of Flight Plan - NONE	Airport : OFF AI Airport : Runway Runway Runway Runway Runway	Proximity RPORT/STRIP	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 40 Medical Biennial Flight Review Current - YES Tot Months Since - 7 Mak Aircraft Type - PA-24 Ins	Certificate - VALID Flight Time (Ho al - 3300 e/Model- 2600 trument- 5 ti-Eng - UNK/NR	MEDICAL-NO WAIVI ours) Last 24 Hrs Last 30 Days Last 90 Days Rotorcraft	ERS/LIMIT - UNK/NR - UNK/NR - UNK/NR - UNK/NR
Instrument Rating(s) - NONE				
Narrative THE AIRCRAFT WAS CLIMBING FROM TAKEOFF, THE REALIZED THE AIRCRAFT WOULD NOT REACH THE A ANTED CORN FIELD. EXAMINATION OF THE ENGINE CARING & THE MAIN BEARING, THEN SUBSEQUENT FA SITIATED BY SLIPPAGE OF A BEARING.	AIRPORT, HE SHUT DOWN THE ENGINE & E REVEALED EVIDENCE OF OIL STARVATI	MADE A WHEELS UP LANI ON OF THE #4 ROD BEAN	DING IN A NEWLY RING, THE #5 ROD	HEN

File No. - 1582 5/14/89 WAUNAKEE, WI A/C Reg. No. N7465P Time (Lcl) - 0913 CDT LOSS OF ENGINE POWER (TOTAL) - MECH FAILURE/MALF Occurrence #1 Phase of Operation CLIMB - TO CRUISE Finding(s) 1. ENGINE ASSEMBLY, BEARING - SLIPPED 2. LUBRICATING SYSTEM, OIL PORT/PASSAGE, INTERNAL - BLOCKED (TOTAL) 3. ENGINE ASSEMBLY, CONNECTING ROD - 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) 4. WHEELS UP LANDING ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: SLIPPAGE OF A BEARING, WHICH RESULTED IN BLOCKAGE OF THE LUBRICATION SYSTEM, AND SUBSEQUENT FAILURE OF A CONNECTING ROD.

-Basic Information Type Operating Certificate-NONE (GENERAL AVIATION) Aircraft	: Damage		Injur.	ies	
Type of Operation -PERSON Flight Conducted Under -14 CFR Accident Occurred During -DESCEN	AL DESTROY 91 NONE T	: Damage YED Crew Pass	Fatal 0 0	Serious 1 1	Minor 0 0	None 0 0
-Aircraft Information Make/Model - SCHUNING/TERATORN Landing Gear - TAILWHEEL-ALL FIX Max Gross Wt - 901 No. of Seats - 2	TERRA II Eng Make/Model - BOM ED Number Engines - 1 Engine Type - REC Rated Power -	BARDIER ROTAX CIPROCATING-CARBURET 65 HP	ELT S	Installed/A tall Warnin		
	 Itinerary			Proximity		
Method - N/A Completeness - N/A Basic Weather - VMC	SAME AS ACC/INC Destination LOCAL		Airport	Data		
Wind Dir/Speed- CALM Visibility - 15.0 SM	ATC/Airspace SCATTERED Type of Flight Plan - Type of Clearance - Type Apch/Lndg -	· NONE	Runway Runway	Ident - Lth/Wid - Surface - Status -	N/A N/A	
	Age - 22 Biennial Flight Review Current - YES Months Since - 8	Medical Certificate	- VALID	MEDICAL-NO	WAIVERS/	LIMIT
Certificate(s)/Rating(s) COMMERCIAL	Biennial Flight Review	Flight	Time (H	ours)	II 77377	rz /3TD
SE LAND HELICOPTER	Current - YES Months Since - 8 Aircraft Type - C-152	Make/Model- 8 Instrument- Multi-Eng -	75 0	Last 24 Last 30 Last 90 Rotorcra	Days- UNI Days- UNI Days- UNI aft -	K/NR K/NR K/NR 500
•	OPTER	-				

File No. - 1572 6/25/89 NEW BERLIN, WI A/C Req. No. N87KS Time (Lcl) - 1130 CDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation GO-AROUND (VFR)

Finding(s)

1. GO-AROUND - 'INITIATED - PILOT IN COMMAND

2. AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND

3. STALL - INADVERTENT - 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: FAILURE OF THE PILOT TO MAINTAIN ADEQUATE AIRSPEED DURING THE GO-AROUND, WHICH RESULTED IN AN INADVERTENT STALL.

File No 1520 7/28/89 WAUKE		. No. N412RC	Time (Lcl) - 0859 CD	T
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Damage TAL Fa Crew Pass Other	Injuries tal Serious Minor 0 0 0 0 0 0 0 0	None 1 0 1
Aircraft Information Make/Model - CABRINHA/FREE SPIRIT 41 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 1450 No. of Seats - 2	2 Eng Make/Model - LYCC Number Engines - 1 Engine Type - RECI Rated Power - 1	MING 0-320 PROCATING-CARBURETOR 60 HP	ELT Installed/Activated Stall Warning System	
Environment/Operations Information Weather Data Wx Briefing - PATWAS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 310/010 KTS Visibility - 7.0 SM Lowest Sky/Clouds - UNK/NR THIN Lowest Ceiling - 2400 FT OVER Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SIOUX FALLS,SD Destination OSHKOSH,WI ATC/Airspace OVC Type of Flight Plan -	Air O Air R NONE R NONE R	rport Proximity FF AIRPORT/STRIP rport Data Runway Ident - N/A Runway Lth/Wid - N/A Runway Surface - N/A Runway Status - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 55 M Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - C-172	Medical Certificate - Flight Ti Total - 750 Make/Model- 100 Instrument- 0	VALID MEDICAL-WAIVERS/LI me (Hours) Last 24 Hrs - 1 Last 30 Days- 1 Last 90 Days- 2	 MIT 0 5 5
Instrument Rating(s) - NONE				
Narrative DURING A FLT FROM SIOUX FALLS, SD, TO OSHKOSH TO THE EAST DUE TO THE MORNING SUN. SUBSEQUEN HIMSELF. BEFORE REACHING AN ARPT, THE ENG LOS JUST BEFORE LANDING, THE LEFT WING "CLIPPED" THE MAIN GEAR COLLAPSED DURING TOUCHDOWN & TH	TLY, HE BECAME LOST & HIS FUE T POWER FROM FUEL EXHAUSTION. A ROAD SIGN & THE PLT BALLOON	L SUPPLY WAS LOW BEFO THE PLT ELECTED TO L ED THE ACFT TO AVOID	RE HE RE-ORIENTED AND ON A ROADWAY. A TRUCK. SUBSEQUENTLY,	

A/C Reg. No. N412RC

Time (Lcl) - 0859 CDT

WAUKESHA, WI

Occurrence #1 LOSS OF ENGINE POWER (TOTAL) - NON-MECHANICAL Phase of Operation CRUISE

Finding(s)

- 1. WEATHER CONDITION CLOUDS
- 2. WEATHER CONDITION HAZE/SMOKE

File No. - 1520 7/28/89

- 3. LIGHT CONDITION SUNGLARE
- 4. BECAME LOST/DISORIENTED INADVERTENT PILOT IN COMMAND
- 5. FLUID, FUEL EXHAUSTION
- 6. REMEDIAL ACTION INADEQUATE PILOT IN COMMAND

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY Occurrence #2 FORCED LANDING

Occurrence #3 HARD LANDING Phase of Operation LANDING

Finding(s)

7. OBJECT - SIGN

- 8. OBJECT VEHICLE
- 9. MANEUVER PERFORMED PILOT IN COMMAND
- 10. FLARE NOT POSSIBLE -

Occurrence #4 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

11. OBJECT - VEHICLE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PLT BECAME LOST/DISORIENTED AND ALLOWED FUEL EXHAUSTION TO OCCUR BEFORE ACCOMPLISHING REMEDIAL ACTION. FACTORS RELATED TO THE ACCIDENT WERE: THE ADVERSE ENVIRONMENTAL CONDITIONS AND THE ROAD SIGN AND VEHICLES IN THE EMERGENCY LANDING AREA.

File No 1560 10/22/89 WAF	RENS, WI	A/C Reg. No. No.	91269	T	ime (Lcl) -	0905 CDT	
-Basic Information Type Operating Certificate-NONE (GENE Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	RAL AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal 0 0	Injur Serious 0 1	ies Minor 1 0	None 0 0
-Aircraft Information Make/Model - WYCHEN CHALLENGER II Landing Gear - TRICYCLE-FIXED Max Gross Wt - 800 No. of Seats - 2	Eng Make/Mo	odel - ROTAX 503 DC nes - 1 - RECIPROCATIN - 52 HP	C NG-CARBURE		Installed/A tall Warnin	ctivated g	- NO -N/ - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 170/005 KTS Visibility - 10.0 SM Lowest Sky/Clouds - UNK/NR THE Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS AG Destination LOCAL ATC/Airspace (IN BKN Type of Flic	rht Plan - NONE		OFF AI Airport Runway Runway Runway	Proximity RPORT/STRIP Data Ident - Lth/Wid - Surface - Status -	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 41 Biennial Flight Re Current Months Since Aircraft Type	Medical Ceview - N/A Total - N/A Make/ - N/A Instr	Certificato Flight l - 120 /Model- 85 rument-	e - VALID Time (H	MEDICAL-WA ours) Last 24 Last 30 Last 90	IVERS/LIM Hrs - 0 Days- 30 Days- 75	 IT
Instrument Rating(s) - NONE							
Narrative PRTLY AFTER DEPARTING A PRIVATE STRIP, THE PILOT WAS INJURED, WHILE LANDING ON AN ANKSHAFT HAD FAILED.							

File No. - 1560 10/22/89 WARRENS,WI A/C Reg. No. N91269 Time (Lcl) - 0905 CDT

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

Finding(s)

1. ENGINE ASSEMBLY, CRANKSHAFT - 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. TERRAIN CONDITION - NONE SUITABLE

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A BROKEN CRANSKSHAFT WHICH RESULTED IN THE LOSS OF POWER. A FACTOR RELATED TO THE ACCIDENT WAS: THE LACK OF SUITABLE TERRAIN FOR A FORCED LANDING.

----Probable Cause----

File No 1441 11/30/89 BARRO	N,WI A/C	Reg. No. N8749D	T	ime (Lcl) -	1400 CST	
Type Operation	L AVIATION) Aircr		Fatal 0 0	Injuri Serious 0 0	es Minor 0 0	None 1 0
Aircraft Information Make/Model - PIPER PA-22 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2000 No. of Seats - 4	Eng Make/Model - Number Engines - Engine Type - Rated Power -	LYCOMING 0-320-B2A 1 RECIPROCATING-CARBURE 160 HP	ELT : St	Installed/Accall Warning	ctivated - g System -	· YES/NO · NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 270/012 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poi ANOKA,MN Destination	nt	Airport I ON AIR	Proximity PORT		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND, SE SEA Instrument Rating(s) - NONE	Age - 40 Biennial Flight Review Current - YES Months Since - 18 Aircraft Type - C-18	Medical Certificat Fligh Total - 18 Make/Model- 25 Instrument- UN Multi-Eng -	e - VALID t Time (Ho 82 s K/NR 0	MEDICAL-WAI burs) Last 24 Last 30 Last 90 Rotorcra	VERS/LIMI Hrs - 1 Days- 7 Days- 27 ft - UNK	T :/NR
THE PLT RPRTD THAT DRG ARRIVAL IN THE VICINITY SPEED AND ALTITUDE." WHILE MANEUVERING, THE HE WAS UNABLE TO STOP ON THE SLICK/SNOW COVERING RUN-UP REVEALED THE ENG WAS CAPABLE OF SAME OF DEG, RESPECTIVELY. ACCORDING TO CARB ICING	ENG LOST POWER & THE PLT ED RWY. SUBSEQUENTLY, THE PISFACTORY OPN THRU-OUT I	MADE AN EMERGENCY LAN ACFT IMPACTED SOME T TS NORMAL RANGE. THE	IDING ON TH PREES & BRU TEMP & DEV	HE ARPT; HOW JSH. A POST-	EVER, ACDNT	

Time (Lcl) - 1400 CST File No. - 1441 11/30/89 BARRON, WI A/C Reg. No. N8749D

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation APPROACH

Finding(s)

1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS

CARBURETOR HEAT - IMPROPER USE OF - PILOT IN COMMAND

3. FUEL SYSTEM, CARBURETOR - ICE

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 OVERRUN

Phase of Operation LANDING - ROLL

Finding(s)

4. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - SNOW COVERED

5. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - WET

Occurrence #4 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING - ROLL

Finding(s)

6. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THE CARBURETOR HEAT BY THE PILOT AND SUBSEQUENT CARBURETOR ICE. CONTRIBUTING FACTORS WERE: CARBURETOR ICING CONDITIONS, SLICK (WET/SNOW COVERED) RUNWAY, AND TREES/BRUSH NEAR THE DEPARTURE END OF THE RUNWAY.

File No 1529 12/28/89 MERRI	LL,WI A/C	Reg. No. N37329	Time (Lc	L) - 1450 CST
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION) Aircr DEST Fire ON G			
Aircraft Information Make/Model - BEECH A24R Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2750 No. of Seats - 4		LYCOMING IO-360-A1B6 1 RECIP-FUEL INJECTED 200 HP	ELT Installe Stall War	ed/Activated - YES/NO rning System - YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - UNK/NR Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- FOG Precipitation - FREEZING RAIN Condition of Light - DAYLIGHTPersonnel Information	Itinerary Last Departure Poi	nt	Airport Proximit	:y :RIP
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Instrument Rating(s) - AIRPLANE	Age - 43 Biennial Flight Review Current - YES Months Since - 12 Aircraft Type - UNK/1	Medical Certificat Fligh Total - 74 Make/Model- 65 NR Instrument- UN Multi-Eng - UN	e - VALID MEDICAI t Time (Hours) 0 Last Last K/NR Last K/NR Roto	-WAIVERS/LIMIT 24 Hrs - UNK/NR 30 Days- UNK/NR 90 Days- UNK/NR proraft - UNK/NR
THE ACFT COLLIDED WITH TREES & TERRAIN AS THE STRUCTURAL ICE WAS ACCUMULATING ON THE ACFT A BELOW AN ALT WHERE RADAR CONTACT COULD NOT BE CONTACT WITH THE ACFT WAS LOST. THREE DAYS I ROUTE CONSISTED OF LOW OVERCAST SKIES, BELOW WRECKAGE AREA, WHICH WERE 3/4 TO 1-1/4 INCH T SHAPE OF AIRFOILS. WEATHER IN THE AREA WAS I FOG TO THE NORTH OF THE FRONT. BEFORE THE FL	ND THAT HE WAS UNABLE TO MAINTAINED. AIR & GROUNI ATER, THE ACFT WAS FOUND F FREEZING TEMPERATURES & FC HICK; THESE PIECES OF ICE NFLUENCED BY A WARM FRONT	MAINTAIN ALT. SUBSEQ SEARCH PROCEDURES W SY GROUND SEARCHERS. G. LAYERED PIECES C CONTAINED INNER SURF WITH LOW OVERCAST SK	PUENTLY, THE ACFT FOR STARTED AFTER THE WEATHER ALON OF ICE WERE FOUND FACES THAT MATCHED TIES, FREEZING TEM	DSCNDD ALL GTHE IN THE THE PS &

File No. - 1529 12/28/89 MERRILL, WI A/C Reg. No. N37329 Time (Lcl) - 1450 CST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE - NORMAL Finding(s) 1. FLIGHT INTO KNOWN ADVERSE WEATHER - CONTINUED - PILOT IN COMMAND 2. WEATHER CONDITION - ICING CONDITIONS 3. FUSELAGE - ICE 4. WING - ICE 5. CLIMB - NOT POSSIBLE -Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT Finding(s) 6. OBJECT - TREE(S)

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FLIGHT INTO KNOWN ADVERSE WEATHER BY THE PILOT, AND STRUCTURAL/WING ICE. FACTORS RELATED TO THE ACCIDENT WERE: THE ICING CONDITIONS AND TREES IN THE AREA OF THE ACCIDENT.

----Probable Cause----

File No 1408 8/21/89 C	LENDENIN, WV	A/C Reg. No.	N7597W	T:	ime (Lcl) -	1133 EDT	
Basic Information Type Operating Certificate-NONE (GE Type of Operation -PERSONAL Flight Conducted Under -14 CFR 9 Accident Occurred During -LANDING			ge Crew Pass	Fatal O O	Injuri Serious 0 1		
Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2400 No. of Seats - 4	Eng Make/ Number Er Engine Ty Rated Pow	rer – 180 HE	0-360 ATING-CARBURE				
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIE Method - N/A Completeness - N/A Basic Weather - IMC Wind Dir/Speed- 240/004 KTS Visibility - 1.500 SM Lowest Sky/Clouds - 800 FT i Lowest Ceiling - 1300 FT i Obstructions to Vision- FOG Precipitation - NONE	Itinerary FING Last Depar FALLSTON Destinatio FAYETTEV ATC/Airspace SCATTERED Type of Fl BROKEN Type Apch/	ture Point (,MD n ILLE,WV ight Plan - NONE earance - SPECI Lndg - FORCE	AL VFR D LANDING	Airport I Runway Runway Runway Runway	PORT/STRIP Data Ident - Lth/Wid - Surface - Status -	N/A N/A N/A	
Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND Instrument Rating(s) - AIRPLAN	Age - 33 Biennial Flight Current Months Since Aircraft Tyr	Medica Review - YES To - 7 Ma e - C-172 Ir	l Certificate Flight Stal - 77 ke/Model- 40 strument- lti-Eng -	e - VALID t Time (Ho 4 67 30	MEDICAL-WAI purs) Last 24 Last 30 Last 90 Rotorcra	IVERS/LIMI Hrs - 4 Days- 25 Days- 27 aft -	O
Instrument Rating(s) - AIRPLANDNarrative HE PLT ENCTRD DETERIORATING WX BEFORE REJAY. HE REQUESTED A SPECIAL VFR CLNC TO LAI AN OUT OF FUEL BEFORE REACHING THE ARPT. DLE & WAS SEVERED. THE ACFT THEN CRASHED DT EQUIPPED FOR IFR FLT. THE ACFT HAD BEIREFING FOR THE X-COUNTRY FLT.	ACHING HIS 1ST REFUEI ND AT CHARLESTON & DE AS THE PLT WAS ABOUT TO THE GND & WAS EXT	ING STOP (FAYETTE SCENDED TO A LOWE TO LAND IN A CLE ENSIVELY DMGD. TH	VILLE, WV) & R ALT TO MAIN ARING, THE AC	DIVERTED NT VMC; HO CFT'S LEFT R RATED, E	TOWARD CHAP DWEVER, THE WING HIT A BUT THE ACFT	RLESTON, ACFT A LIGHT	

File No. - 1408 8/21/89 CLENDENIN, WV A/C Reg. No. N7597W Time (Lcl) - 1133 EDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE - NORMAL Finding(s) 1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 2. WEATHER CONDITION - CLOUDS 3. WEATHER CONDITION - LOW CEILING 4. WEATHER CONDITION - FOG 5. FLIGHT TO ALTERNATE DESTINATION - DELAYED - PILOT IN COMMAND Occurrence #2 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 6. FLUID, FUEL - EXHAUSTION Occurrence #3 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY Occurrence #4 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 7. OBJECT - POLE

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PLANNING/PREPARATION BY THE PILOT WHICH RESULTED IN FUEL EXHAUSTION. THE WEATHER CONDITIONS, THE PILOT'S DELAY IN DIVERTING TO AN ALTERNATE AIRPORT, AND THE LIGHT POLE WERE CONTRIBUTING FACTORS.

----Probable Cause----

File No 1483 8/31/89	PARKERSBURG, WV	A/C Reg. No.	N58281	Ti	me (Lcl) -	1330 EDT	
Type of Operation -AERIA Flight Conducted Under -14 CF Accident Occurred During -OTHER	(GENERAL AVIATION) L OBSERVATION R 91	Aircraft Damag SUBSTANTIAL Fire NONE	crew Pass	Fatal 0 0	Injuri Serious 1 0		None 0 0
Aircraft Information Make/Model - HUGHES 269C Landing Gear - SKID Max Gross Wt - 2050 No. of Seats - 2	Eng Mak Number Engine Rated P	e/Model - LYCOMING Engines - 1 Type - RECIP-FUE ower - 190 HP	HIO-360-D1A	ELT 1	Installed/Actall Warning	ctivated - g System -	- YES/YES - NO
Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGH	Itinerary RIEFING Last Dep PITTSB Destinat SAME A ATC/Airspa Type of Type of Type Apc	S ACC/INC	NY (VFR)	Airport I ON AIRE Airport I WOOD CO Runway Runway Runway Runway	PORT Pata DUNTY Ident -	UNK/NR UNK/NR UNK/NR UNK/NR	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL HELICOPTER Instrument Rating(s) - HELIC	COPTER				MEDICAL-NO burs) Last 24 Last 30 Last 90 Rotorcra	WAIVERS/I Hrs - 11 Days- 85 Days- 145 aft - 1	JIMIT 6 6.616
Narrative E PLT RPRTD THAT WHILE HE WAS PREPAR. GAN TIMING FOR 2 MIN. HE SAID HE THEN AINST THE COLLECTIVE STICK TO MONITOR EM IN A NEUTRAL POSTION & MOVED HIS I ICTION. AT THAT INSTANT, THE COLLECT THE RIGHT. THE PLT APPLIED LEFT PEDA TOR BLADES HIT THE GROUND. THE HELICO TWEEN THE DOOR FRAME & THE GROUND. AR E PLT.	ING TO SHUT DOWN THE END SET THE COLLECTIVE FOR THE SET THE COLLECTIVE FOR THE STATE OF THE STAT	NG AFTER LANDING, H RICTION WITH HIS LE HIS RIGHT FOOT AGA CYCLIC WHILE USING HE HELICOPTER LIFTE N, BUT THE HELICOPT TS LEFT SIDE & CAME	E SET THE ENF FT HAND, MOVI INST BOTH TA HIS RIGHT HAI D OFF ABOUT ER WENT IN A TO REST WIT	G SPEED AT ED HIS LEF IL ROTOR F ND TO SET 3 TO 5 FT 45 DEG BA 1 THE PLT'	T LEG & KNE EDALS TO HO THE CYCLIC & BEGAN SPI NK & THE MA S LEFT ARM	EE DLD INNING AIN PINNED	

File No. - 1483 8/31/89 PARKERSBURG, WV

A/C Reg. No. N58281 Time (Lc1) - 1330 EDT

Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation STANDING - ENGINE(S) OPERATING

Finding(s)

1. COLLECTIVE - INADVERTENT USE - PILOT IN COMMAND

2. LIFT-OFF - INADVERTENT -

3. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2

ROLL OVER

Phase of Operation OTHER

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation OTHER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADVERTENT USE (MOVEMENT) OF THE COLLECTIVE CONTROL DURING ENGINE OPERATION BEFORE SHUTDOWN, AND A SUBSEQUENT LIFT-OFF, LOSS OF CONTROL, ROLL OVER, AND COLLISION WITH THE GROUND.

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