| | | | DEDODT | # CDEW/ | DATE | LOCATION |
|---------------------------------|---------------------------------|---|--------------------------|--|------------|-----------------|
| <u>AIRCRAFT</u> <u>TYPE</u> | <u>MANEUVER</u> | <u>SUMMARIZED</u> <u>ROOT CAUSE</u> | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
| | | | | mounds | | |
| G650 #2 | Takeoff performance | TBD | Avia | 4/4/0 | 04/03/2011 | Roswell, |
| Large Biz Jet | Testing – Simulated Eng | | Week | 4/4/0 | 04/03/2011 | New |
| (Gulfstream) | Out; Wing drop @rotation, | | 04/2011 | | | Mexico, |
| | wing tip contacted Grnd, | | 0 1/2011 | | | USA |
| | A/C spun off runway, | | | | | |
| | burned | | | | | |
| HJT-36 Sitara | Routine flight testing; details | TBD | Avia | 2/0/0 | 05/2?/2011 | Southern |
| Interm Mil Jet Trainer (HAL) | TBD | | Week | | | India |
| | | | 04/2011 | | | |
| An-148 Twin turbofan | Broke up in flight due to | Initial data indictes A/S | Wikipedia | 6/6/- | 03/05/2011 | Garbuzov |
| Regional Airliner | overspeed | indic failed to slow | | | | o. Russia |
| (Antonnov) | | speed | ~ ^ | | 0010610000 | |
| SARAS #2 Twin Turboprop | Lost directional cntrl during | Prop pitch lever put in | Gov of | 3/3/- | 03/06/2009 | Bidadi, |
| Utility Trnsprt | eng airstart. Cntrl being | FINE pos prior to fuel- | India DCAC | | | India |
| (HAL) | regained as ground contacted | on, High drag developed & ac rolled | DGAC dept | | | |
| | contacted | off. Fuel not put on for | Accdnt | | | |
| | | some time, High drag | Rprt | | | |
| | | continued | Rpit | | | |
| Jetpod | Crash shortly after takeoff. | An article, claims the | Flight | 1/11- | 08/16/2010 | Taiping, |
| Short T/O&ldg Twuin | Details TBD | aircraft "would be able to | Internatio | | | Malaysia |
| Eng "Air taxi" | | become airborne in just 125m (410ft) and cruise at | nal | | | |
| | | 300kt." Details TBD | | | | |
| | | | | | | |
| | | | | | | |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|---|--|---|--|--|----------------------|--|
| SPn #2 Small Bus Jet (Grob Aerospace) A-67 Dragon #1 (POC) SE turboprop Counterinsurgency | "lost control surfaces during a demonstraiton flight" shortly after takeoff Upon landing of 1 st flt, RH landing Gr collapsed | TBD TBD | AV Week Art 1/1/07 AV Week Art 10/16/06 | ?/1/? 0/1/0 | 11/29/06 10/06/06 | Mattsies- Tussenhau sen,Germ Monett Muni, Mo |
| Spectrum 33 Exp "#VLJ" | Upon T/O from maintence effort, A/C immeduately rolled to right and crashed | Found ail cntrl sys linkages reversed. | NTSB SEA06FA14 6 | 2/2/0 | 02/25/06 | Spanish Fork, Utah |

| | | | | # CREW/ | | LOCATION |
|---------------|--|-------------------------|---------------|-----------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | FATALI | DATE | LOCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | | | 04/42/05 | I |
| PC-21 #2 | A/C practicing airshow | Were doing same | AVWeek | 1/1/- | 01/13/05 | Buochs, |
| SE Turboprop | routine w/ #1 AC. Struck | routine done @ | Article | (+1 on | | Switzerland |
| Trainer | wing doing 360 turn @ low | airshow in Sept. | 1/31/05 | grnd) | | |
| (Pilatus) | alt. Cartwheeled over dam | | | | | |
| F-22 #TBD | FOT&E Phase; After liftoff, | Pilot ejected, details | AV Week | | 12/20/04 | Nellis |
| Mil Fighter | pilot put in NU command, | TBD | Art | | | AFB, |
| (Lockheed) | nose went down. | | 01/03/05 | | | Nev |
| F-22 #TBD | FOT&E Phase; W/ ext fuel | Pilot able to land, but | AV Week | | 09/xx/04 | ?Nellis ? |
| Mil Fighter | tanks, flew thru wake of F- | AC overstressed to 10- | Art | | | AFB, |
| (Lockheed) | 16. Input produced violent | 11 Gs. Details TBD | 01/03/05 | | | Nev |
| () | | 11 Gs. Details 1 DD | 01/05/05 | | | INEV |
| | pitch reaciton. | | NEGD | a /a / | 10/04/02 | - |
| Wing D-1 | FT training flight w/ Instruc | Radar reconst inds PA | NTSB | 2/2/- | 12/04/03 | Rosa- |
| 2-Eng GA AC | pilot & student. Points were | stall done by student | LAX04FA | | | mond, |
| (Operated by | cruise, stalls & Vmca. | which became spin. | 057 | | | Calif |
| NTPS) | Control Lost. Impacted in | Imact after 7-8 turns. | | | | |
| | flat spin type condition. | Exact reason control | | | | |
| | | not recovered not | | | | |
| | | known. | | | | |
| SJ-30 #2? | 2 nd flt of Flutter clearance | This AC reqd lat trim | NTSB | 1/1/- | 04/26/03 | Loma |
| Small Biz Jet | Mmo to Md phase. Setting | incr w/ speed. Gurney | IAD03MA | _ , _ , | | Alta, |
| (Sino- | up for 2nd point at .894Mn. | flap reduced lat rim. | 049 | | | Texas |
| ` | Went into uncontrollable | - | V77 | | | 1 СЛАЗ |
| Swearingen) | | Other test AC sym . | | | | |
| | rolls, Impacted @ high | Decision made to acept | | | | |
| | Speed & high neg FPA | need for full lat trim | | | | |
| | | +pilot force. Rudder | | | | |
| | | trim also used. | | | | |

| AIRCRAFT | MANELWED | SUMMADIZED | REPORT | # CREW/ | DATE | LOCATION |
|----------------|--------------------------------|--------------------------|-----------------|-----------------|----------|-----------|
| | MANEUVER | SUMMARIZED | | FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | $\frac{ID}{ID}$ | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| Gyroplane | End of dev test flt. Making | Grnd crew alerted flt | NTSB | 2/0/0 | 04/08/03 | Olney, |
| (Cartercopter) | "short roll" ldg. Pilot saw | crew at ~30ft, G/A | FTW03LA | | | Texas |
| | A/C back taxiing, made | attempted, R/D too | 125 | | | |
| | extra pattern, hovered, then | high to avoid contct. No | | | | |
| | forgot to Ext gear. Gear-up | injuries, crew had 5- | | | | |
| | landing. Composite fuse | point harness and | | | | |
| | cracked | helmuts on. | | | | |
| Eurofighter #6 | !5 min ater takeoff suffered | TBD | AVW&ST | 2/0/0 | 11/21/02 | Near |
| (Typhoon) | dual eng failure @ 0.7 M, | | Eurofighter | | | Toledo, |
| Advanced Mil | 45Kft lvl flight. 2-person | | Website | | | Spain |
| Tactical | crew ejected safely. Details | | | | | |
| | TBD | | | | | |
| A340-600 #1? | High energy braking test | Details TBD | E-mail | ?/?/? | 03/??/02 | Istres, |
| Large 4-eng | conducted. Details TBD. | | photos | | | France |
| Civil Jet | A/C has 3 MLG bogies. | | • | | | (National |
| Transport | Tires burst on RH bogie & | | | | | FT |
| (Airbus) | on CL gear. Some structural | | | | | Facility) |
| | damage. | | | | | |
| F-16 | A/C was acting as | Details TBD | AVW&ST | 2/2/0 | 07/17/01 | EAFB, |
| | safety/photo chase for | | 7/23/01 | | | Calif. |
| | airlaunched decoy flight test. | | | | | |
| | Crashed. Details TBD | | | | | |
| | | | | | | |

| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | # CREW/ | DATE | LOCATION |
|-----------------|-----------------------------------|--|----------------|--------------------------|----------|-----------------|
| ТҮРЕ | | ROOT CAUSE | ID/ | FATALI | | |
| | | ROOT CHUE | MATL ID | <u>TIES/</u> INJURIES | | |
| | | | | <u>INJUNIES</u> | | |
| | | | | | | |
| An-70 #2 | A/C conducting ferry flt | Hyd line failed which | AVW&ST | 33/0/3 | 01/27/01 | Omsk, |
| 4-eng | staging for cold weather | controlled rear blade | 02/05/01 | 00,0,0 | | Siberia |
| 0 | 8 8 | | and | | | |
| contrarotating | testing. After liftoff from | pitch on #3 eng. Caused | 04/09/01 | | | Russia |
| turboprop | refueling stop, suffered dual | strong vibr. Malf RPM | 0 1, 0 7, 0 1 | | | |
| (Antonov) | engine failure. Crew made | sensor on #1 eng | | | | |
| | gear up emerg ldg. | caused auto FADEC | | | | |
| | | shutdown | | | | |
| MH-2000 #1? | Crashed, Details TBD | TBD, 6 AC built, | Web | 6/1/? | 12/07/00 | Suzuka |
| Helicopter | , , | program cncld 2005 | Search | | | City, |
| (Mitsubishi | | | Nagoya | | | Japan |
| Heavy | | | Newspaper | | | Ĩ |
| Industries) | | | | | | |
| CL-604 #1 | !st flt w/ rvisd stick force feel | Rot rate ~2X normal, | Newspaper | 3/3/- | 10/09/00 | Wichita. |
| "Challenger" | sys. A/C loaded to Aft Lim | att to ~20deg, 12deg is | Article; | | | Kansas |
| Biz Jet | CG. Rapid rotation to high | manual. Invest reveald | NTSB | | | |
| (Bombardier) | pitch att, A/C rolled RT. | fuel could shift in tanks | CHI | | | |
| | Lvld, rlld RT, crashed. | so that CG in rottn | 0IMA006 | | | |
| | Apparent stall | was 3 ¹ / ₂ %MAC | | | | |
| | FF | behind Aft Lim. | | | | |
| | | | | | | |

| AIRCRAFT | | SUMMADIZED | REPORT | # CREW/ | DATE | LOCATION |
|------------------|---|------------------------|------------|-----------------|-----------|----------|
| | MANEUVER | SUMMARIZED | | FATALI | DAIL | LOCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| C-27J #1 | Simulated RTO from | A/C swerved to right | Private | 3/0/0 | 09/~20/00 | Turin, |
| | | 0 | | 3/0/0 | 0)/~20/00 | / |
| Mil Utility | landing for test of | upon sel of max rev. | Comm | | | Italy |
| Transport | FADEC/engine to respond to | Pilot reduced power, | | | | |
| (Alenia/ | rapid change from T/O | applied rudder, felt | | | | |
| Lockheed) | (forward) thrust to max | recover, reapplied | | | | |
| , | reverse. Upon ldg A/C was | power, A/C then | | | | |
| | acceld to target (130) w/ T/O | swerved to right again | | | | |
| | pwr & max Rev selected. | & departed runway | | | | |
| | _ ▲ | _ | | | | |
| | Run was 4 th of series & was | side. | | | | |
| | endpoint. | | | | | |
| BD-700 #? | Returning from Prod test | Found elevator system | Canada | 2/0/0 | 07/21/00 | Toronto, |
| "Global | flight found elevators | rig pin (w/o flag) | TSB | | | Canada |
| Express" | jammed; crew used thrust | engaged under pedestal | Occurr- | | | |
| Bizjet | and stab trim to control | | ence | | | |
| (Bombardier) | A/C; diverted to longer | | Report | | | |
| | runway; RH elev finally | | A0000150 | | | |
| | "broken loose"; emerg | | | | | |
| | landing w/o further damage | | | | | |
| | accomplished | | | | | |

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|---------------------------------------|--------------------------------|--------------------------|-----------------|--------------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | ID/ | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | 1 | | T | 1 | |
| ERJ-135 #1 | Remote base operation for | 135 is shortest member | NTSB | 3/0/0 | 08/24/99 | Moses |
| Regional | FAA/JAA Certif; Vmu tests | of 135/140/145 family | Summary | | | Lake, |
| Jetliner | being conducted. Just after | of same A/C (ie, highest | SEA99IA1 | | | Wash., |
| (Embraer) | L/O (@ g.t. tail limiting att) | geom limited attitude). | 48; | | | USA |
| | AC rolled to left and | MLG more aft of cntr | Personal | | | |
| | dragged wingtip & aileron. | of lift requiring more | Know- | | | |
| | Takeoff continued & | elev input at L/O. Att | ledge | | | |
| | uneventful ldg made. | increased to ~ stall. | ieuge | | | |
| G164B Modfd | An STC effort was | Details TBD. | FAA | 1/0/0 | 04/07/99 | Nunica, |
| "AgCat" | underway whereby a | Details TDD. | Incident | 1/0/0 | 04/07/22 | MI, USA |
| 0 | t t | | | | | MI, USA |
| orig manuf | turboprop engine was | | Report | | | |
| Grumman | installed. Upon ldg the FAA | | 199904070 | | | |
| | pilot selected "Beta" range | | 19289G | | | |
| | causing tail to lift up and | | | | | |
| | A/C to fully nose over | | | | | |
| HS-748 SR2 | Assembled by HAL Co in | Report implies | Aviation | 8/8/- | 01/11/99 | Athur, |
| Twin Eng | India. Crashed 2.5km from | rotordome collapsed | Safety | | | India |
| Turboprop | airport in dense forest. A/C | onto fuselage. Details | website | | | |
| Transport, | had been modified to carry | TBD | | | | |
| "AWACS" | "rotordome" above fuselage. | | | | | |
| Туре | | | | | | |
| Prototype | | | | | | |
| Tototype | | | | | | |
| | | | | | | |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|--|--|---|-------------------------------------|--|---------------------|---|
| Learjet 45 #4 Bisinessjet (Bombardier) | 80kt run thru H2O trough as part of new NG certif.; Was 11 th run of the day. Conducted from ldg. Used T/Rs to control/reduce speed after T/D. A/C departed side of rnwy, struck support vehicle, sheared wings off, fuse rolled inverted and burned | Slight track off CL due max reverse. Had rudder and NG steering input in & T/Rs deployed when entered pit. Detailed reason for loss of control after entering pit TBD. Crew cites training & coord as reason for successfully evacuating hull. | NTSB Narrative IAD99FA 008 | 3/0/2 First ARFF unit onsite had malf of water canno n. | 10/27/98 1456est | Wallops Island, Va. (On NASA facility) |
| CitationJet #1 Model 525 (Cessna) | Fuel starvation, landed safely on state highway | Fuel quantity indicated 500lbs, fuel low light ON; Details TBD | AVW&ST | 3/0/0 | 07/09/98 | Wichita, Kansas |
| KA-50 "Black Shark" Helicopter | Rotor blade section separated during aerobatic, high speed turns, 50-100m height | TBD | AVW&ST | X/X/1 | 06/??/98 | Torzhok, 140mi NW Moscow, Russia |
| RANS-160F16 SEL "Shekari" | Homebuilt A/C being used to flight test new wooden prop. Prop failed/departed during cruise @5k ft. Safe emerg ldg in field adjacent to airport. | "Suspect harmonic vibr between prop and crankcase flange" | FAA Incident data Base | 1/0/0 | 04/16/98 | Booneville , Ark |

| | | | 1 | # CREW/ | | LOCATION |
|-----------------|------------------------------------|--------------------------|---------------|-----------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | | | | |
| BE-95(T42A) | A/C conducting spin tests. | "Gear retract rod had | FAA | 1/0/0 | 09/09/97 | Wichita, |
| | Gear retracted under G | failed" | incident | | | Kansas. |
| (Beech) | loads, would not lock. Gear | | data Base | | | |
| | extended, would not lock | | | | | |
| | down. Emerg landing w/ | | | | | |
| | minor damage. | | | | | |
| CN-235 (Mil | "LAPES" b/u @1100ft; | Reportedly cable with | ICAO | 6/6/- | 05/22/97 | Serang, |
| Version of N- | extraction chute broke away | lower strength rating | 97/0153 | | | Indonesia |
| 250) Twin | leaving 4tonne load in AFT | was inadvertently used | | | | |
| Turboprop | part of A/C; load jammed in | (Apparently looked | | | | |
| Transport | pos; control lost | identical) | | | | |
| BD-700 #? | GPWS disabled per test | TBD; crew stated they | ICAO | 5/0/0 | 04/25/97 | Toronto, |
| "Global | card; Landed w/ gear | did not follow checklist | 97/2369 | 5/0/0 | | Canada |
| Express" | retracted | ulu not lonow checklist |)11230) | | | Callaua |
| - | Tetracteu | | | | | |
| (Canadair) | | | NITCD | 1/0/0 | 01/18/97 | |
| MD600N #? | Series of FAA Certif H-V | Previous accdnts of this | NTSB | 1/0/0 | 01/18/97 | Flagstaff, |
| Single | test points being conducted | type had occurred to | Synopsis; | | | Az |
| turboshaft | @ high alt location. 1-sec | this manuf. Apparently | Report # | | | |
| Helicopter | delay used. On 5 th run | corrective action | LAX97FA | | | |
| "Notar" No tail | (150ft, 85knts), High R/D | studies not completed, | 091 | | | |
| rotor – air jet | developed, which could not | & info re prev accident | | | | |
| used | be arrested. Hard T/D, skids | not made avail to this | | | | |
| (MDC) | collapsed, rotor severed tail | pilot & test engr. | | | | |
| | boom, AC rolled over onto | Studies imply diff of | | | | |
| | side off runway. | ~1sec in cntrl input is | | | | |
| | | critical | | | | |
| | l | | 1 | 1 | 1 | I |

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|-----------------|---|-------------------------|-----------------|------------------------|-----------|-----------------|
| AIRCRAFT | MANEUVER | <u>SUMMARIZED</u> | REPORT | # CREW/ | DATE | LOCATION |
| TYPE | | ROOT CAUSE | ID/ | <u>FATALI</u> TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | · · · | - | | | | |
| MD600N | Certif H-V test points being | Min alt not observed. | NTSB | 1/0/0 | 11/21/96 | Flagstaff, |
| Prototype | conducted at high alt @ max | Autorotation implied to | Synopsis; | | | Az. |
| "Notar" | wt. On 4 th run (800ft, 0knts) | be initiated late. Alt | Report # | | | |
| Helicopter | High R/D developed which | readouts critiqued in | Lax97LA0 | | | |
| 1-eng | could not be arrested. Hard | report. | 61 | | | |
| turboshaft | T/D w/ struc damage. | | | | | |
| (MDC Hel) | _ | | | | | |
| MD600N | A/C conducting high alt, | Report refers to | NTSB | 1/0/0 | 11/04/96` | Flagstaff, |
| Prototype | max wgt H-V testing. 10 th | "blowback" of main | Synopsis; | | | Az |
| "NOTAR" | autorotation of series (15ft, | rotor dusk as std | Report # | | | |
| (MDC Hel) | 60knts). Conducted | phenon on hel, but | LAX97LA | | | |
| | "running" T/D, rotors | exacerbated on this | 034 | | | |
| | deflected down & | A/C due several factors | 004 | | | |
| | contacted/severed tail boom. | A/C une several factors | | | | |
| | | | | | | |
| | A/C made 180 turn. Minor | | | | | |
| | damage | | | | | |

CREW/ **LOCATION** AIRCRAFT **MANEUVER SUMMARIZED** REPORT DATE FATALI TYPE **ROOT CAUSE** ID/ TIES/ MATL ID **INJURIES Investigation revealed** 10/04/96 **BV-107II** First A/C of program to NTSB 3/3/-Aurora, incorrect p/n bellcrank (a convert Mil version (HKP-4) (HKP-4) 2-eng Synopsis; Oregon 8 ilo –9) used in aft rotor to civil version. 2nd flt since **Report** # turboshaft, 2 "mech mixer" assy. –8 is main rotor modif cmpltd. 37min into flt. SEA97FA thicker which prevented A/C observed to be erratic. 001 helicopter "per print" instl of two (Boe Vertol) to "flip" just prior to crash. clevis assys (pilot inputs). One clevis instled using (Modfd and thinner than specified **Oper by** washers, which allowed Columbia cotter pin instl, but other **Helicopters**) clevis instld with per print washers which prevented instl of cotter pin. Lack of cotter pin apparently allowed nut to come off. and clevis to disengage, which caused loss of control to aft rotor Torenado **TBD TBD** 2/0/0 09/28/96 Blackpool, England **Mil Tactical BH407 A/C experienced FADEC Manufacturing defect** NTSB 1/0/1 09/21/96 Kerrville, fault on first leg of delivery in FADEC found, Pilot Helicopter **Report** # Texas did not follow (Bell) flight mission. Pilot made FTW96LA troubleshooting flt from first procedure for fail 395 leg field. Got fail lt/horn. indic, which ends with Made autorotation, landed 'Land ASAP". Report very hard **implies fault requires** maintenance action.

| | | | r | | | LOCATION |
|----------------------|---|--------------------------|---------------|--------------------------|----------|-------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
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| | · · · · · · · · · · · · · · · · · · · | 1 | | | | |
| UH-1H (205A) | FAA certif of 2 "STC" mods | Tail boom had hit | NTSB | 2/0/2 | 09/10/96 | Leadville, |
| Helicopter | relating to engine & | ground on 2 prev runs, | Narrative | | | Co. (High |
| (Bell – | "tractor" tail boom. Tests | indicating @ limit of | FTW96LA | | | elev heli- |
| Operator ,Far | were autorotations to | vehicle. Reason for not | 380; | | | copter test |
| m | determine low-end of H-V | discontinuing & other | ICAO | | | site) |
| Development | curve. Could not arrest sink | details TBD | 96/1064 | | | |
| Corp) | rate, A/C landed hard, both | | 2012001 | | | |
| corp) | skids and tail boom | | | | | |
| | separated. | | | | | |
| EII 101 #9 | | TDD | ICAO | <i>5 (</i> 0 /0 | 08/20/96 | Malmanga |
| EH-101 #? | Experienced control | TBD | ICAO | 5/0/0 | 00/20/90 | Malpensa, |
| Helicopter | difficulties during airspeed | | 96/0372 | | | Italy |
| (Westlund) | cals; attempting emergency | | | | | |
| | ldg A/C rolled onto side | | | | | |
| F/A-18C Mil. | New AC leased back to | Maneuver not done per | NTSB | 1/1/- | 06/19/96 | Bethalto, |
| Tactical | manuf. Pilot new to Co. Inflt | briefed parameters. | Report # | | | Ill |
| (MDC) | "partial" routine practice | Started pullout @ 2300 | CHI96FA | | | |
| | done enroute, followed by 1k | ft, s/b @ 3500ft. & low | 211; | | | |
| | ft floor practice. Refueled | on speed. Two higher | Personal | | | |
| | and full practice routine | alt "builddown" | knowledge | | | |
| | started. Crashed attempting | practice runs | (Contro- | | | |
| | 3 rd maneuver – reverse one- | apparently not done. | versy as to | | | |
| | half cuban eight. Could not | Pilot currently doing | resp for | | | |
| | pull out from loop. Chf pilot | airshow routine in Pitts | investiga- | | | |
| | obs from ground called | Special. (Had invited | tion) | | | |
| | abort, not done. | family & friends to | | | | |
| | | witness practice!) | | | | |
| | | withess practice. | | | | |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORTID/MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|-----------------------------------|---|---|--|--|----------|--------------------|
| AV-8B Harrier | TBD | TBD | | 1/0/0 | 06/??/96 | China |
| Mil Tactical (MDC) | | | | | | Lake, Calif. |
| MD-600N #1 Helicopter (MDC) | During conduct of "strain survey" flight test involving cyclic control reversals main rotor contacted and caused separation of tail boom. Resulting L yaw only controllable w/ power off. Pilot made autorotation to semi controlled ldg. | Chase A/C reported contact. Flexure of rotor and boom not as expected. Details TBD | NTSB Narrative LAX96LA 207 | 1/0/0 | 05/28/96 | Thermal, Calif. |
| 205A #? Helicopter (Bell) | Engaged exprmntl FBW system; spurious inputs resulted in unusual attitude & vibr during recovery, precautionary ldg | TBD; Found distortion of structure in engine/transmission area | ICAO 96/2204; Canada TSB Occurrenc e report A96O0089 | 2/0/0 | 05/24/96 | Ottawa, Canada |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT | # CREW/ FATALI | DATE | LOCATION |
|---|---|---|--|---|----------|----------------------|
| | | KOOT CAUSE | MATL ID | <u>TIES/</u> INJURIES | | |
| | | | | | | |
| PA-25-150 "Pahnee" Cropduster (Modified & operated by "B&E" Co) (Piper) | A/C modified for dual controls. Undergoing FAA certif for STC. 3 rd FAA flt. 2nd Flight at max WT & full Fwd CG. No climb perf after L/O, & A/C crashed attempting return to field. Perf low but OK on 1 st flt, but 28 vs 64 deg F diff (some 7 weeks earlier). | A/C did not have wing root fairing instld (decreasing lift &elev power), nor ldg gr struts fairings. Docs don't state if two fairings were installed on 1 st flts. Statement of conformity did not mention these two differences from std config. Post event computations indicated CG was Fwd of Fwd limit by ~30% of allowable travel. Ques exists as to GW/CG envelope w/w/o "hopper" instld | NTSB Report CHI96FA 141 | 2/1/1 (FAA Pilot Injured ; FAA Test Engr Perish- ed) | 04/24/96 | Buffalo, Mo., USA |
| R-22 Beta LT Helicopter (Robinson) | A/C conducting "High"alt VH testing. 200ft, 60kt point. Excessive sink rt developed, could not arrest w/ power. Hard Inding | 12/13kt hdwind reported to suddenly decrease during maneuver. | FAA Incident Report Data Base | 1/0/0 | 11/21/95 | Big Bear, Calif |
| PJ-2 #1 "Peregrine" Personal Jet (Fox) | During Go-around pilot reported split flap situation; A/C spiraled in | Pin in LH flap drive shaft found broken; pilot response & aerodynamic aspects TBD | NTSB Narrative LAX95LA 278 | 1/1/- | 08/04/95 | Minden, Nev. |
| EH-101 #4 Helicopter (Westlund) | Maneuvers @ 12k ft., crew reported problem, began spinning. Crashed w/o fire | TBD, 3 of crew bailed out @10k ft, pilot @ 3K ft. | AVW&ST | 4/0/1 | 04/07/95 | Yeovil, England |

| <u>DATE</u> | LOCATION |
|-------------|-----------------|
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| | |
| 02/10/95 | Kiev, |
| | Ukraine |
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| | |
| 02/02/95 | Seattle, |
| | Wash |
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| | |
| 01/19/95 | EAFB, |
| | Calif. |
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| 0 | 02/02/95 |

| | TLIGHT ILSI AIKCKAT | | | | | |
|---------------------|--------------------------------|-------------------------|---------------|-------------------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | <u>SUMMARIZED</u> | REPORT | # CREW/ | DATE | LOCATION |
| TYPE | | ROOT CAUSE | ID/ | <u>FATALI</u> <u>TIES/</u> | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | | I | I | |
| BD-10 #? | Flutter clearance testing @ | LH vertical tail failed | NTSB | 1/1/- | 12/30/94 | Gardner- |
| Personal Jet | high alt, followed by points | first ; reason for high | Narrative | | | ville, Nev |
| (Orig design by | @ 380kts @ 14k-15k ft; | vertical loads TBD | LAX95LA | | | |
| Bede, | violent pitchup resulted in | | 067 | | | |
| purchased by | structural failure; high | | | | | |
| Peregrine | vertical loads on earlier flt | | | | | |
| Flight Int) | resulted in limitation against | | | | | |
| 8 , | rudder kicks (vertical | | | | | |
| | excitation) | | | | | |
| TU-204 | TBD | TBD | ICAO | TBD | 11/02/94 | Russia |
| (Tupolev) | 100 | | 94/0380 | IDD | | Kubbiu |
| F-20 #1 or 2 | Near end of demonstration | A/C stalled while | SFTE NL | 1/1/- | 10/10/94 | Suwon, |
| Tigershark | flight, A/C conducted | inverted. Altitude too | | 1/1/- | 10/10/21 | South |
| 0 | | | | | | |
| Mil Tactical | climbing roll to inverted w/ | low to allow recovery | | | | Korea |
| (Northrop) | Flaps & gear dwn. A/C | | | | | |
| | control lost & crash ensued | | | | | |
| | | | | | | |

| | FLIGHT TEST AIRCRAF | | | # CREW/ | | LOCATION |
|--------------------|--------------------------------|-------------------------|---------------|-----------------|----------|-------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | FATALI | DATE | LUCATION |
| TYPE | | ROOT CAUSE | $\frac{ID}{}$ | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| MD520N | After acting as | Nighttime VFR ops, | NTSB | 2/1/1 | 09/27/94 | Mesa, |
| "NOTAR" | traffic/visibility chase for | AH-64 pilot using | Narrative | NOTA | | Arizona |
| Helicopter | AH-64 Apache foreign sales | nightvision goggles | LAX94FA | R | | |
| (MDC) | demo, the NOTAR collided | which reduce sideline | 383A | 2/0/0 | | |
| | w/ Apache shortly before | vision. NOTAR had | | AH-64 | | |
| | landing back @ home base. | one pilot w/ foreign | | | | |
| | Rotor of NOTAR struck aft | observer in other seat. | | | | |
| | portion of LH stub wing of | A/C were on same VHF | | | | |
| | AH-64. Collision observed | freq. Duties of "ramp | | | | |
| | by ramp controller, who | control" not precisely | | | | |
| | reported no time to radio | defined | | | | |
| | info back. | | | | | |
| TU-134 | Photo chase; collided w/ TU- | TBD | ICAO | 8/8/- | 09/09/94 | Yegoryev- |
| (Tupolev) | 22 (Bomber) | | 94/0274 | | | sky, Russia |
| S-64F | Forest fire water tank sys | Tank quantity sys | NTSB | 3/0/2 | 09/01/94 | Libby, |
| Skycrane | test; after "some" filling of | malf; only | Narrative | | | Mont. |
| Helicopter | tank could not climb; could | sensed/indicated no | SEA94LA | | | (~6000ft) |
| (Sikorsky – | not jettison; A/C settled into | water; jettison sys | 228; | | | |
| Operated by | lake. Quantity sys noted as | programmed to require | ICAO | | | |
| Erickson Air | erratic upon initial filling. | some water quantity | 94/0404 | | | |
| Crane Co.) | Emerg tank jettison sys also | for it to function. | | | | |
| | malfunctioned. | Limited perf. data | | | | |
| | | avail. Data for | | | | |
| | | "similar" used. A/C | | | | |
| | | likely above "max wt" | | | | |
| | | for alt/OAT. | | | | |

| | | | DEDODT | # CREW/ | | LOCATION |
|------------------------|-------------------------------|------------------------|---------------|-----------------|----------|-----------|
| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | FATALI | DATE | LUCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | TOLO | 10/0/0 | 07/04/04 | |
| Modified 707- | Reportedly engaged in | TBD | ICAO | 12/0/0 | 07/04/94 | Tel Aviv, |
| 300 Mil intel | develop Test; Some | | 94/0545 | | | Israel |
| gathering | "malfunction" disabled RH | | | | | |
| equipment | MLG; Landed w/ 2 gr | | | | | |
| vehicle (IAI) | extended; rel minor damage | | | | | |
| A330 #? Civil | Combination customer demo | Autopilot control laws | ICAO | 7/7/- | 06/30/94 | Toulouse, |
| Transport | & engr test flight. | allowed speed to decay | 94/0173; | | | France |
| (Airbus) | Conducted engr test card of | below Vmca and Vstall | AVW&ST | | | |
| | Simulated Eng-Out Go- | as A/C entered Alt | Avia-net | | | |
| | Around @ low height. Speed | Capture mode from | website; | | | |
| | decayed, A/C rolled off & | G/A mode. Customer | French | | | |
| | crashed on field | pilot in RH seat. | accident | | | |
| | crusheu on neiu | phot in Kii scat. | report | | | |
| JAS-39 1 st | With 40 hours flight time, | Manuf duplicated PIO | SETP | 1/0/0 | 08/08/93 | Stockholm |
| | A/C conducted airshow | in simul next day! A/C | | 1/0/0 | 00/00/25 | |
| Prod A/C, | | • | "Cockpit" | | | , Sweden |
| "Viggen" | demo. Upon rollout from | has sophisticated FBW | | | | |
| Mil Tactical | steep turn entered PIO. Pilot | system. Control system | | | | |
| (SAAB) | ejected. A/C crashed in view | become "Rate | | | | |
| | of 100,000 spectators. | Limited". Control | | | | |
| | | surface could keep up | | | | |
| | | w/ command and | | | | |
| | | became out-of-phase. | | | | |

| | | | | | | LOCHTON |
|-----------------|---------------------------------|-------------------------|-----------------|-------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | # CREW/ FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | | | | |
| Ranger 2000 | Moderate roll rate evals w/ | Earlier testing had | ICAO | 1/0/1 | 07/27/93 | Dollenstei |
| #2 | speed brakes extended; large | revealed reduced | 93/0114; | US | | n, |
| Prototype | sideslip developed; rudder | directional stab w/ | Private | pilot | | Germany |
| Mil Jet Trainer | went hardover; pilot used | speed brakes extended; | translation | | | |
| US JPATS | high pedal forces in attempt | briefing included | of German | | | |
| Program | to cause rudder movement . | limitation against | Accident | | | |
| | A/C rolled & dived. Pilot | crossed controls w/ | Board | | | |
| | attempted ejection, A/C | speed brakes extended; | Report | | | |
| | crashed | cause of rudder motion | | | | |
| | | TBD, apparently was | | | | |
| | | overbalanced | | | | |
| CL-600 #1 | Engr develop tests of several | Wing stall w/ | NTSB | 3/3/- | 07/26/93 | Byers, |
| "Regional Jet" | config changes. Low speed | attempted roll thru and | Report # | | | Kansas |
| Civil | full rudder sideslip test point | then entry into deep | CHI93MA | | | |
| Transport | planned. Briefing was to | stall; pilot called to | 276 | | | |
| (Canadair) | terminate at stall warning. | deploy drogue chute; | | | | |
| | Occurred close to full | deploy mortar fired | | | | |
| | rudder, full rudder then | before chute anchored | | | | |
| | attained. Roll-off occurred | to A/C | | | | |
| IL-114 #? | Some sort of engine | TBD | AV Sfty | 8/3/5 | 07/05/93 | Zhukovsky, |
| Turboprop | problem, on initial climb-out | | Ntwrk | (9/5/?) | | Russia |
| Civil transport | rolled & pitched up, then | | | | | |
| (Illushin) | stalled | | | | | |
| | 5144404 | | | 1 | | |

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| AIRCRAFT TYPE | <u>MANEUVER</u> | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | <u>DATE</u> | LOCATION |
| | | | MATL ID | INJUKIES | | |
| | | | | | | |
| F-100 #? | High speed ldg (no flaps) w/ | Lt wt, high speed | ICAO | 7/0/0 | 06/10/93 | Groningen, Netherlands |
| Civil | new ldg gr; skipped upon | condition caused | 93/0442 | | | Nettierfailus |
| Transport | T/D; vibration felt; only one | coupled vibration of | | | | |
| (Fokker) | reverser deployed; A/C went | gear & strut; known | | | | |
| | off side of rnwy; Both MLGs | occurrence on other | | | | |
| | collapsed | A/C | | | | |
| II-62 #? | TBD | TBD | ICAO | 9/5/4 | 07/05/93 | Ramenskoye, |
| Civil | | | 93-0287 | | | Russian |
| Transport | | | | | | Flight Test |
| (Ilyushin) | | | | | | Center |
| F-16 #? | TBD | TBD | TBD | 1/1/- | 05/24/93 | TBD, |
| Mil Tactical | | | | | | Texas |
| (Gen Dyn) | | | | | | |
| Ranger 2000?? | Due to inflt problem w/ gear | Some sort of hyd | ICAO | 1/0/0 | 04/29/93 | Manching, |
| (DASA) | doors, had to conduct ldg w/ | failure prevented RH | 93/0134 | | | Germany |
| | RH MLG retracted. Damage | gear extension. | | | | |
| | TBD | | | | | |
| "HTTB" Engr | Vmcg testing as part of | Rudder became hinge | NTSB | 7/7/- | 02/03/93 | Marietta, |
| Testbed, | FBW rudder control eval; | moment limited and sys | ATL93M | | | Georgia |
| Highly | A/C lost directional control; | sensed diff between | A055; | | | |
| Mdified C-130) | lifted off; crashed on field | actual and commanded | m/f # | | | |
| (Lockheed) | | position as a failure | 52843A | | | |
| | | and took self out of | | | | |
| | | control loop | | | | |

| AIRCRAFT TYPE | MANEUVER | <u>SUMMARIZED</u> <u>ROOT CAUSE</u> | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|--|---|---|--|--|----------|------------------------|
| | | | | | | |
| EH-101 #2 Helicopter (Westlund) | A/C was conducting tests measuring its noise on ground while in flight, details TBD | "Uncommanded application of rotor brake", details TBD | AW&ST | 4/4/0 | 01/21/93 | Cameri, Italy |
| 328-100 #? Turboprop Civil transport (Dornier) | Full Rudder Sideslip as part of FAR/JAR compliance; buffeting started; prop blades sheared at root; A/C rolled; pilot took it thru 360 degrees | Revised aero fairings installed; asym of prop flow caused tail buffeting; prop certif did not require degree of sideslip encountered w/ advancing/retreating blade cycle. | ICAO 92/0162; private translation of German authority investigati on report | 2/0/0 | 12/14/92 | Memmingen , Germany |
| AN-124 #? Mil/Civil Transport (Antonov) | High Speed descent; some sort of structural failure; emergency landing being attempted when crashed | Nose cargo door reported to begin to break away | ICAO 92/0456 | 9/8/? | 10/13/92 | Keiv, Ukraine |
| Jetstream Super 32 #? Twin Turboprop Transport (British Aerospace) | Simulates Engine failure just after L/O. Roll to RT could not be controlled & A/C crashed inverted. | Jetstream uses 2 propellers. One on S32 requires diff idle fuel flow setting on fuel control unit to maintain proper torque (ie; drag). Wrong idle fuel flow was set. | AAIB Bulletin #11/93; CAA Summary 9204093D | 2/2/- | 10/06/92 | Prestwick, Scotland |

<u># CREW/</u> **LOCATION** AIRCRAFT **MANEUVER SUMMARIZED** REPORT DATE FATALI TYPE **ROOT CAUSE** ID/ TIES/ MATL ID **INJURIES** Hutchinson. LR-60 #2? 80ft height intentional Malf inserted by NTSB 4/0/0 09/24/92 Kansas. Autopilot malf insertion; engineer in cabin who **Twin Eng Synopsis** did not have Radar Alt CHI92LA Businessjet info (Learjet) 289; (m/f # 50976A) **SA227 III** Longit control test point; **TBD** ICAO 2/0/0 09/18/92 San engines retarded to flt idle; **Merlin?** Twin 92/1130: Antonio, could not raise nose; hard NTSB Texas Turboprop Civil ldg resulted **Synopsis** Transport FTW (Fairchild) 92LA228 **10 months into Turbine** 08/27/92 DHC4 **Rudder gust lock found** ICAO 3/3/-Gimli. "Caribou" engaged; evidence from engine conversion program; 92/0359; Canada data film that elev and Turboprop normal takeoff; @ ~35ft A/C Canada **Conversion #1** TSB pitched up and conducted ail locks were also ever steepening wingover Occurrence **Twin Eng** engaged; interconnect Report designed to prevent Mil/Civil followed by steep dive & A92C0154 throttle advance w/ Transport crash (NewCal Av lock lever engaged; Inc) possible failure of one axis lock; no control system preflight controls rollout observed or noted on data film

| | | | | | | LOCATION |
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| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | # CREW/ FATALI | DATE | LOCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| V-22 #4 "Osprey" Mil Tiltrotor (Bell) | Relocation flight from Eglin back north w/ stopover at Quantico, Va marine base; lineup for final approach following fly-by; lost engine | Pooling fluid ingested when nacelles tilted; causes engine fire; fire destroys composite rotor interconnect shaft | AVW&ST: Newspaper; Philadelphia Inquirer 11/14/93 | 7/7/- | 07/21/92 | Quantico, Virginia |
| T-45 #1 "Goshawk" Mil Trainer (MDC) | Normal ldg; upon T/D A/C darted to side; | FT instrumentation sensor jammed brake pedal on; initial MDC LB SRB called for special periodic inspection due to tight clearances; requirement lost upon xfer of program to MDC St Louis | AVW&ST Personal knowledge | 1/0/0 | 06/04/92 | EAFB, Calif. |
| S-3 #? Twin Jet Mil Utility "Viking" (Lockheed) | Simulator upgrade maneuvers; rudder "sweeps" @ 5K ft 365kts caused struc failure of vert fin followed by one elev; crew ejected | Design criteria used for vertical fin apparently not known; is common to not design for rudder reversals in sideslip on "transport" sized A/C | Flying the Edge; Wilson; P195 | 2/0/2 | 04/29/92 | Patuxent River, MD |

| | | | DEDODT | # CREW/ | | LOCATION |
|---------------|-----------------------------------|----------------------------|---------------|-----------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | FATALI | DATE | LOCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | 1 | 1 | 1 | T | I | |
| F-22A | A/C began violent pitch | Software anomaly, | AVW&ST | 1/0/1 | 04/25/92 | EAFB, |
| Prototype Mil | oscillations upon Gear | large change in gains | | | | Calif. |
| Tactical | Retractn during normal Go- | upon gear retractions | | | | |
| (Lockheed) | Around. Pancaked onto | | | | | |
| | runway. Pilot climbed out. | | | | | |
| | A/C burned . | | | | | |
| XXXX | Series of high elev H-V test | 400ft, 46kt test point | NTSB | 1/0/0 | 02/29/92 | Leadville, |
| Helicopter | points being conducted – | being attempted. Pilot | AC/Incid | 2/0/0 | | Colorado |
| (?Manuf) | implies to be FAA certif. | reported "heavy blade | Data Base; | | | Colorado |
| (Modified by | High R/D developed which | stall" and downdraft. | Report # | | | |
| "Enstrom " | could not be arrested. Hard | stan and downdrait. | - | | | |
| | | | DEN92 | | | |
| Co) | T/D w/ struc damage. | | LA036 | | | |
| | | | | • /0 /0 | 4.0.10.0 | |
| BHT206L3 #? | Series of H-V test points | 30ft, 50kt test point | NTSB | 2/0/0 | 12/10/91 | Arlington, |
| "Longranger" | being conducted for L4 | being attempted. | acc/Incd | | | Texas |
| Helicopter | series. High R/D developed | Rotor RPM decreased | data base; | | | |
| (Bell) | which could not be arrested. | more than expected. | Report # | | | |
| | Hard T/d w/ struc damage. | | FTW92LA | | | |
| | | | 040 | | | |
| V-22 #x | Crashed on T/O | TBD | SAE AE | 2/0/2 | 06/??/91 | Wilmington, |
| Mil Tiltrotor | | | Mag | | | Del |
| (Bell/Boe) | | | 8 | | | |
| | | | | | | |

| | | | | # CREW/ | | LOCATION |
|---------------|---------------------------------|--------------------------|---------------|-----------------|----------|-----------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | FATALI | DATE | LUCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | ICAO | 1/0/0 | 06/12/91 | D |
| DHC6-300 | Upon start up of engines; | Hyd C/Br left out | ICAO | 1/0/0 | 00/12/91 | Denver, |
| 4-Eng | prop came out of feather | causing no brakes avail | 91/0211 | | | Colorado |
| Turboprop | causing forward motion and | to pilot upon motion | | | | |
| Civil | collision w/ other A/C | | | | | |
| Transport | | | | | | |
| (deHavilland) | | | | | | |
| A-6 | New-to-A/C bomb qual; | TBD | Flying the | 2/1/1 | 08/15/90 | Patuxant |
| "Intruder" | "sinusoidal stick pumps" @ | | Edge; | | | River, MD |
| Mil Attack | 500kts @ 5K ft; Horiz Stab | | Wilson; | | | , , |
| (Grumann) | failure to NU resulted in | | P210 | | | |
| (| severe ND pitch & crash | | _ | | | |
| BN2T | Certif demo of Vmcg/Vmca | Pilot stated gust of | British | 2/0/0 | 06/27/90 | Isle of |
| "Islander" | capability (Old BCAR | wind got A/C off slower | CAA | | | Wright, |
| Twin | rules); first test point – fail | than planned; & then | Accident | | | England |
| Turboprop | of LH eng OK; on RH eng | loss of gust contributed | Report | | | |
| Civil | point A/C drifted off | to failure to fly. | EW/G90/0 | | | |
| Transport | runway, flyaway attempted, | | 6/25 | | | |
| (Pilatus | could not climb, speed | | 0/20 | | | |
| Brittan- | decayed, nose high T/D @ | | | | | |
| Norman) | 55mph resulted | | | | | |
| F-18A Mil. | Spin Accident | | | | 11/30/89 | |
| Tactical | | | | | | |
| (MDC) | | | | | | |
| USN E-6A #? | Flutton (Lost ton 1/ of | TBD | Seattle | ?/?/? | 09/28/89 | Soottlo |
| | Flutter (Lost top ¼ of | | | \$1\$1\$ | 07/20/07 | Seattle, |
| "TACAMO" | Vertical) | | Newspape | | | Wash. |
| (Mil 707) | | | r | | | |
| (Boeing) | | | | | | |

| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | # CREW/ | DATE | LOCATION |
|--------------|------------------------------|-------------------------|------------|----------|----------|-----------|
| | MANEUVER | | | FATALI | DATE | LOCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| USN E-6A #1 | During flutter test (460kt | TBD | AVW&ST | ?/?/? | 02/16/89 | Seattle, |
| "TACAMO" | @15k ft) for wingtip | | | | | Wash. |
| (Mil 707) | mods/problem, made strong | | | | | |
| (Boeing) | pilot rudder input. Top 1/3 | | | | | |
| () | of Vertical separated from | | | | | |
| | A?C | | | | | |
| JAS-39 #1 | A/C had accumulated 5 | TBD; 18 month slip in | SFTE NL | 1/0/1 | 02/02/89 | ?, Sweden |
| "Grippen" | flights for ~5 hours. Upon | first flight | | | | |
| Mil Tactical | landing encountered "Fly- | | | | | |
| (SAAB) | by-Wire" system divergence | | | | | |
| SX-300 | USAF Demo flt; massive | TBD; pilot told | NTSB | 2/2/- | 01/09/89 | Dayton, |
| Mil POC | structural failure | acquaintance he | Synopsis | | | Ohio |
| (Swearingen) | | "routinely" exceeded | ATL | | | (WPAFB) |
| | | redline by 85kts. | 89MA070; | | | · · · · |
| | | | (m/f # | | | |
| | | | 38326A) | | | |
| B707-300 w/ | Implies that event occurred | Slightly slow, & pulled | NTSB | 12/0/0 | 11/16/88 | Orlando, |
| "Hush Kit" | at end of certif flight. FAA | throttles at 50 ft | Data Base; | | | Fla. |
| naccelles; | test Engr flying as pilot | | Report # | | | |
| 4-Eng Jet | making visual approach. | | MIA89IA0 | | | |
| Transport | Hard T/D with T&G made. | | 35 | | | |
| (Modfd by | Normal ldg at normal base. | | | | | |
| XXXXX) | Minor struc damage found | | | | | |
| (Boeing) | innor su ut uamage rounu | | | | | |
| (Ducing) | | | | | | |
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| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | # CREW/ FATALI | DATE | LOCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| 0150 | | | NIEGD | a (0 / a | 11/04/00 | |
| C152 | A/C modified to carry | Subject test required to | NTSB | 2/0/2 | 11/04/88 | Chandler, |
| Weatherplane | weather sampling equipment | be conducted w/i | Data Base; | | | Az |
| (Cessna) | to support FAA Cert | certain weather | Report # | | | |
| | "Flyover Noise" testing. | conditions & said | LAX89LA | | | |
| | During sampling run A/C | conditions be | 035 | | | |
| | stalled & spun in from low | recorded/sampled on | | | | |
| | alt. A/C made descending | regular basis during | | | | |
| | RH turn from 800 to 50ft, | test runs. A/C stalled | | | | |
| | followed by climb to 100ft | during LH turn to | | | | |
| | and turn to align with | align w/ runway. A/C | | | | |
| | runway heading for | was overweight due | | | | |
| | continuation of run | equip, fuel & second | | | | |
| | | person onboard. Level | | | | |
| | | of exceedance unk | | | | |
| F-100 #? | A/C was conducting "failure | Details of test point | Aviation | 12/0/0 | 07/31/87 | Amsterdam- |
| 2-Eng Jet Civil | condition" test point landing | TBD. MLG torque | Safety | 12/0/0 | 0//01/0/ | Schiphol, |
| U | | - | · | | | Netherlands |
| Transport | w/ flaps & LE devices | links lengthened as | Website | | | |
| (Fokker) | retracted. Severe MLG | result. | | | | |
| | virba ensued w/ gear failure | | | | | |
| | – details TBD | | | | | |
| USAF | TBD | TBD | Newspapers | X/x/x | 07/11/86 | Bakersfiel |
| "Stealth" | | | | | | d, Calif. |
| Fighter | | | | | | |
| Hawk200 | TBD | TBD | Newspape | 1/1/0 | 07/02/86 | |
| Mil Tactical | | | r | | | |
| (British | | | | | | |
| Aerospace) | | | | | | |
| | | | 1 | | | |

| | | SUMMA DIZED | DEDODT | # CREW/ | DATE | LOCATION |
|---------------|------------------------------|-------------------------|------------|------------------|----------|------------|
| AIRCRAFT | <u>MANEUVER</u> | SUMMARIZED | REPORT | FATALI | DATE | LUCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | | | 0=104107 | |
| "Helistat" | Attempted T/O due wind | Reported as "Lack of | ICAO | 5/1/4 | 07/01/86 | Lakehurst |
| Airship | shift during mooring; Ldg gr | structural dynamics | 86/1191; | | | , NJ |
| | began shimmying; caused all | analysis of very | NTSB | | | |
| | 4 helicopter fuselages to | complex structure" | Synopsis | | | |
| | vibrate and break away | - | NYC86FH | | | |
| | from airship. | | D01; | | | |
| | • | | (m/f | | | |
| | | | 32618A) | | | |
| Seastar | Had elec sys probs following | No way to determine | ICAO | 4/0/0 | 07/24/85 | Friedrichs |
| Anphibian | flt tests; GR believed to be | GR pos w/o elec sys, no | 85/0159 | ., 0, 0 | | hafen, |
| (Dornier) | UP, was down; landed on | 2-way radios w/o elec | 00/010/ | | | Germany |
| (Dormer) | | 2-way radios w/o elec | | | | Germany |
| | water; A/C nosed over | | 1000 | T T 10 10 | 02/02/05 | |
| DC-8-62 w/ | A/C experienced large | Ques as to spoiler sys | 1999 | X/0/0 | 03/??/85 | Mojave, |
| Mod Nacelles | lateral upset during conduct | working properly; | FTSW | | | Calif. |
| (Douglas, | of FAA Cert FT of Static | large wheel input made | presento | | | |
| Modfd/tested | Direc Stab. Lost ~6K ft in | to check, then apparent | | | | |
| by Burbank | recovery | large reversal of input | | | | |
| Aeronautical) | J | B | | | | |
| (induced) | | | | | | |
| | | | | | | |
| | | | | | | |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|--|---|--|--|--|----------|--------------------|
| Model 425 | A/C fitted w/ 4-bladed props; ldg test to eval | TBD | NTSB Synopsis CHI85FA | 4/0/1 | 05/25/85 | Dayton, Ohio |
| (Cessna) | characteristics following throttle chop @ 50ft; 3 rd run; first 2 Ok; on 3 rd , A/C yawed and rolled upon more brisk chop; sheared off all 3 grs. | | 218; (m/f 3 29274A) | | | |
| DHC3 "Otter" 2-eng Civil/Mil LT transport (deHaviland of Canada, Modified by Cox AC Co) | Turbine Eng version of A/C w/ modified fuel system – details TBD. During test flight fuel sys probs noted. Pilot stayed over ocean to troubleshoot. Noted gauge staying full. Headed home, ran out of fuel over Seattle, landed in athletic field, bounced into residential backyard. | Probs started with ice blockage of vent line, causing string of events. Erroneous full reading locked out xfer tank pumps apparently. Main tank ran dry. Config status of engine and fuel sys not clear at this time. | NTSB Synopsis SEA85FA 034 (Microfishe 26670A) | X/x/3 | 12/19/84 | Seattle, Wash. |
| R695A #1? "Commander" Lt Twin Eng 980 (Rockwell Int) | A/C conducting series of Single-eng climb & Vmc test points. Exact sequence/details TBD. Stalled @ low alt & crashed. | TBD | NTSB Synopsis; Report # FTW85FA 010 | 2/2/- | 10/09/84 | Checotah, Okla. |

| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | # CREW/ | DATE | LOCATION |
|--------------|---------------------------------------|-------------------------|----------|--------------------------|----------|----------|
| TYPE | | ROOT CAUSE | ID/ | FATALI | | |
| | | <u>KOOT CAUSE</u> | MATL ID | <u>TIES/</u> INJURIES | | |
| | | | | <u>INJUNED</u> | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | |
| B-1A #2 | Reactivated as B-1B | A/C CG in range for | SFTE NL | 3/1/2 | 08/24/84 | EAFB, |
| "Lancer" | prototype. Inter-maneuver | initial sweep (Aft) | & USAF | (Doug | | Calif. |
| Bomber | Wing Sweep; A/C went out | position, not changed | Museum | Benefi | | |
| (North | of control & crashed. Crew | & thus out of range for | Website; | eld) | | |
| American) | deployed escape capsule | final sweep position | Airplane | | | |
| | which malfunctioned (details | (details TBD). Warning | S&C,Abzu | | | |
| | TBD) | Lt system changed to | g & | | | |
| | | positive interlock as | Larrabee | | | |
| | | result this event. | | | | |
| CL-600 | Ldg from FAA cert flt; sys's | Wheel speed sensors | NTSB | 8/0/0 | 04/02/84 | Little |
| "Challenger" | failures; ldg on wet rnwy; | found swapped on LH | Synopsis | | | Rock, Ak |
| Twin-jet | went off end, collapsed NG | gear | MKC84F | | | , , |
| Businessjet | | | A114; | | | |
| (Canadair) | | | (m/f 3 | | | |
| | | | 24506A) | | | |
| Peregrine | New Ailerons installed; roll | TBD | NTSB | 1/0/1 | 11/23/83 | El Reno, |
| (Gulfstream | tests to evaluate; dead band | | Synopsis | | | Okla |
| Aerospace) | noted on earlier flight; PIO | | FTW84FA | | | |
| | resulted | | 075; | | | |
| | | | (m/f # | | | |
| | | | 23461A) | | | |

| <u>AIRCRAFT</u> | | | | | | LOCATION |
|-------------------------|-------------------------------|---------------------------|---------------|-------------------|----------|-----------------|
| | MANEUVER | SUMMARIZED | <u>REPORT</u> | # CREW/ FATALI | DATE | LOCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| R-22 #? F | A A cost II V tost point | Dataila TDD anarri | NTSB | 2/0/0 | 05/12/83 | Torrange |
| | AA cert H-V test point | Details TBD, crew | | 2/0/0 | 05/12/05 | Torrance; |
| - | eries. FAA pilot attempting | stated they had not | Acc/Incid | | | Calif. |
| | o duplicate Co pilot run. | defined division of | data Base; | | | |
| | High R/D developed. Could | responsibilities clearly. | Report | | | |
| | ot be arrested, hard ldg | | #LAX83F | | | |
| re | esulted. Main rotor severed | | A226 | | | |
| ta | ail boom. | | | | | |
| AS-350 #? U | Jncommented engine | Flight to test new | NTSB | 4/0/0 | 02/09/83 | Pacoima, |
| ASTAR sł | hutdown @800ft. Lndd | engine torque & temp | Synopsis | | | Calif |
| Helicopter ha | ard on skid heel. Blades | limiting device. Device | LAX83FA | | | |
| (Operator co | ontacted tail boom and | apparently | 096; | | | |
| · • | aused separation (sequence | malfunctioned & | (m/f | | | |
| | (BD). | caused shutdown | #33746) | | | |
| . | First flight takeoff; A/C | Fly-by-wire sys hooked | Elevon | 1/0/1 | 04/20/82 | Groom |
| | vent inverted & traveled | up backwards | Website | | | Lake, Nev |
| Tactical ba | ackwards; crashed | | | | | |
| (Lockheed) | | | | | | |
| · · · · | Full ND stab trim input to | High pilot forces | ICAO | 3/3/0 | 03/26/82 | Aichach, |
| | imul a runaway; pilot | resulted in disconnect | 82/0048 | | | Germany |
| c . | listracted; both pilots could | of stab trim clutch thus | | | | 2 |
| Transport no | ot overcome ND moments; | preventing ability to | | | | |
| (Dornier) | , | retrim stab | | | | |
| · / | .dg w/ RH prop feathered; | Was a FAA cert flt; | ICAO | 4/0/0 | 03/24/81 | San |
| | pon retarding LH power | TBD | 81/0072; | | | Marcos, |
| | ever A/C rolled left w/ hard | | (NTSB | | | Texas |
| | esulting T/D | | m/f # | | | |
| (Swearingen) | 0 | | 1083A) | | | |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|--|--|--|--|--|----------|-----------------|
| MD-80 #2 Twin Jet Civil Transport (MDC) | Full Hydraulic Failure Ldg FAA Demo; procedure called for min braking as anti-skid turned off w/ max reverse; directional control lost; A/C ground looped, went off side of runway & collapsed all gear | Max reverse caused blanking of rudder; lack of rudder effectiveness resulted in use of brakes; lightness on gear caused wheels to lock up with only light braking & resulting tire failure | NTSB Report # AAR-81- 16 NTIS PB81- 910416 | 3/0/0 | 06/19/80 | Yuma, Az |
| MD-80 #1 Twin Jet Civil Transport (MDC) | FAA Certif of "Ldg Air & Ground Distance"; A/C touched down @ ~17fps; empennage separated & fwd fuse bent | 3rd day of intensive effort; quick pattern resulted in short final w/ small windshear; resulted in less than true thrust required being used down to 50ft where throttles were reduced to idle; just above 50ft shear reduced and A/C arrived at 50ft below target speed | NTSB Report # AAR-82-2; NTIS PB929104 02 | 7/0/1 | 05/02/80 | EAFB, Calif. |

| | | | | | 1 | LOCATION |
|---------------------|---------------------------------|---------------------------------------|---------------|--------------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | <u>ROOT CAUSE</u> | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | | | | |
| Cl-600 #? | Non-scheduled stall done to | Stall warning and | ICAO | 3/1/1 | 04/03/80 | Calif City, |
| "Challenger" | investigate intermittent | pusher sys's had been | 80/0139; | (2 | | Calif |
| Twin Jet | banging occurring during | deactivated prior to flt; | (NTSB | bailed | | |
| Businessjet | previous scheduled stalls; | this was development | m/f # | out) | | |
| (Canadair) | AOA increased | testing; jettison failure | 16563A, | | | |
| | unexpectedly; drogue chute | TBD | Rprt # | | | |
| | deployed; AOA reduced, but | | LAX80FA | | | |
| | chute could not be | | 073) | | | |
| | jettisoned; RH eng failed | | | | | |
| SA-226TC | FAA Cert Flt; ldg @ Hvy | TBD | ICAO | 4/0/4 | 05/31/79 | San |
| "Metro II" | Wt, Fwd Cg w/ RH eng | | 79/0218; | | | Marcos, |
| Twin | feathered; @50ft as LH | | (NTSB | | | Texas |
| Turboprop | power reduced LH prop | | m/f # | | | |
| Transport | went into Beta range; hard | | 15454A) | | | |
| (Swearingen) | ldg; ldg gr collapsed | | | | | |
| C-130 #? | A/C had rockets installed to | Hastily organized, | Janes | X/x/x | ~1980 | ~Georgia, |
| Special STOL | cause deceleration upon | secret test program to | Defense | | | USA |
| Prototype | landing. 1 set to be fired just | develop A/C capable of | Weekly | | | |
| Multiple | prior T/D, 2 set to be fired | landing & T/O in | 3/97 | | | |
| Rocket Assists | upon T/D. A/C impacted | soccer stadium. Demo; | Plus other | | | |
| (Lockheed/ | hard, slewed and wing | 1 st set fired @higher alt | sources | | | |
| USAF) | separated | than briefed, 2 nd set | | | | |
| , | - | fired @prebriefed | | | | |
| | | Delta time after first. | | | | |
| | | | l | L | l | 1 |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ | # CREW/ FATALI TIES/ | DATE | LOCATION |
|--|---|--|---|----------------------------|----------|---|
| | | | MATL ID | INJURIES | | |
| Have Blue #2 (F-117 Stealth Prototype) (Lockheed) | Engine fire , then fire caused hyd line burn thru; followed by ejection | TBD | JBaugher website | 1/0/? | 07/??/79 | Groom Lake, Nev |
| NA-265 #? Lt Twin (Namer) | Encountered severe hail while searching for icing for FAA certif test point | Details TBD | FAA Incident Data Base | 3/0/0 | 02/22/79 | Fort Smith, Ark. |
| Have Blue #1 (F-117 Stealth Prototype) (Lockheed) | Hard ldg resulted in RH gear jamming in mid pos; attempts to shake free failed;deliberate ejection ordered rather then land | TBD; pilot injured upon ejection | JBaugher website | 1/0/1 | 05/04/78 | Groom Lake, Nev |
| N24 #1 "Nomad" Twin Turboprop Light Xport (Government Aircraft Factory) | Initial T/O w/ modified tailplane; flutter occurred on initial climbout; partial tailplane disintegration; A/C made descending LH turn to impact | Flutter analysis method (Broadbent criterion) found to be too simplistic for tail config (Full span elev tab w/ T-strips at TE) | ICAO 76/0474; Aus D.O.T. Air Sfty Invest Brnch Special Rprt 77-1 | 3/2/1 | 08/06/76 | Avalon, Australia |
| YF-16 #1 Mil Tactical (General Dynamics) | Unintended first flight as rapid lateral oscill occurred at high taxi speed & pilot decided to takeoff as safest course of action | Gains for new sidestick found to be ~2x required | JBaugher website | 1/0/0 | 01/20/74 | Edwards USAFB? or Fort Worth, Texas |

| AIRCRAFT TYPE | <u>MANEUVER</u> | SUMMARIZED ROOT CAUSE | <u>REPORT</u> <u>ID/</u> <u>MATL ID</u> | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|---|---|---|---|--|-------------|---|
| | | | | | | |
| F-14A #5 "Tomcat" Mil | Sparrow missile envelope expansion test; missile | TBD | JBaugher website | 2/0/2 | 06/20/73 | Point Mugu, |
| Tactical (Grumman) | pitched up after launch & struck A/C; crew ejected | | | | | Calif |
| TU-144 #2 SST (Tupolev) | Paris Airshow low level flyby down rnwy 06 followed by steep pull-up. Left canard separated and struck wing & punctured fuel tank. Crashed | Never officially released; pilot may have "bunted" (sharp pitchover) due to sudden appearance of French photorecon A/C | AV Sfty Ntwrk Website Plus TV | 6/6/0 (8 fatalities of on- ground villageer s) | 06/03/73 | Paris, Fr (Crashed into small village of Goussainv ille) |
| F-14A #10 "Tomcat" Mil Tactical | Airshow prep flight; A/C crashed | TBD | JBaugher website | ?/1/0 | 06/30/72 | Pax River, Md |
| VFW 614 #1 Twin Jet Civil Transport (VFW Fokker) | Believed to be on flutter test flt; entered near vertical dive and crashed, crew bailed out | TBD | AV Sfty Ntwrk | 3/1/? | 02/01/72 | Bremen, Germany |
| Concorde #? SST (Anglo/French) | During artificial icing testing behind EAFB KC-135 had #2 engine compressor stall | Shutdown eng. Found guide vanes broken off & went thru engine | Avweb website | X/0/0 | ~1971 | Great Britain |
| NF-104A #3 (Research A/C) (Lockheed) | Inflight break-up due rocket motor explosion; pilot ejected | TBD | JBaugher website | 1/0/? | 06/??/71 | Edwards USAFB |

| | | | | | . – .= | |
|--------------------|--|---------------------------|--------------------|--------------------------|------------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| SN-601 Proto- | TBD | TBD | ICAO | ?/?/? | 03/??/71 | Spain?? |
| | IDD | IBD | ICAU | •/•/• | 0.5/ / / 1 | Span: |
| type #1 | | | | | | |
| "Corvette" | | | | | | |
| Twin Jet | | | | | | |
| Businessjet | | | | | | |
| (Aerospatiale) | | | | | | |
| F-14A #1 | On 2 nd flight, suffered dual | Certain hyd line | JBaugher | 2/0/2 | 12/30/70 | Calverton, |
| "Tomcat" | hyd failure, pilots attempted | exposed to high freq | Website; | | | Long |
| Mil Tactical | emerg landing; control lost, | short time fatigue | 5 th FT | | | Island, NY |
| (Grumman) | pilots ejected at last instant | failur e; earlier failure | Safety | | | 1514114, 1 (1 |
| (Orumnan) | phots ejected at last instant | during eng runs | Workshop | | | |
| | | 0 0 | workshop | | | |
| | | occurred but lab | | | | |
| | | analysis in feedback | | | | |
| | | loop & not | | | | |
| | | disseminated | | | | |
| Arava 101 #2 | TBD | TBD | Av Sfty | 4/3/? | 11/19/70 | Tulkam, |
| Twin Eng | | | Ntwrk | | | Israel |
| Businessjet | | | | | | |
| (Israeli Aircaft | | | | | | |
| Idustries) | | | | | | |

| InterferenceInterferenceInterferenceInterferenceInterferenceTYPEInterferenceROOT CAUSEInterferenceInterferenceInterferenceB747-100 #3? 4-eng Civil transport (Boeing)A/C being ferried to facility for refurbishment after completion of FT program; landed short, much damage but repairedShort runway at edge of lake, details TBDNTSB report AAR70- 19; NS # PB- 195193?/0?09/02/70 Wash- ingtonRenton, Wash- ingtonC-5A #1 or #11 4-Eng Mil rransport (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD?/0??09/02/70 Wash- ingtonEdwards USAFBC-5A #1 or #11 (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD?/2??/70Edwards USAFBCommander" (TBD)Rejected takeoff test series;LH MLG strut failedTBDICAO 70/1584TBD05/22/70 Pomona; NJPomona; NJX-22 #1 Cuppy" (Modified Bee appry" (controlEng-fail T/O @ Vmcg; rudder defl reduced; lost controlEvidence of rudder cable becoming disconnected,TBD05/12/70 SantaEAFB, Calif70/1419 Urboprop TransportFAA certif demo of Md/Vd (NTSB LAX70FU TansportTBDICAO Santa Barbara, CalifSanta Barbara, Calif | | MANELWED | | | # CREW/ | | LOCATION |
|--|-----------------|-------------------------------|-----------------------|-----------|-----------------|----------|----------|
| B747-100 #3? 4-eng Civil transport (Boeing)A/C being ferried to facility for refurbishment after completion of FT program; landed short, much damage but repairedShort runway at edge of lake, details TBDNTSB report AAR70- 19; NR8 # PB- 195193?/0? (POPO270)Renton, Wash- ingtonC-5A #1 or #11 4-Eng Mil transport (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD??/??/0Edwards USAFBC-5A #1 or #11 (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD??/??/0Edwards USAFBCommader" (TBD)ground operationsTBDJBaugher websiteTBD??/??/0Pomona; NJModel 1121 #? (TBD)Rejected takeoff test series;LH MLG strut failedTBDJDesigners s & Test Pilots p142TBD05/22/70Pomona; NJ"Guppy" (Modified Bee rudder defl reduced; lost controlEng-fail T/O @ Vmcg; rudder defl reduced; lost controlEvidence of rudder table becoming disconnected,TBDO5/12/70EAFB, Calif(Modif winuch Larger Fuse Diam) 4-Eng Turboprop TransportFAA certif demo of Md/Vd characteristics; buffeting caused damage to vertical & horiz stabsTBDTBDTCAO Santa Santa CalifSanta Barbara, Calif | | MANEUVER | | | | DAIL | LOCATION |
| B747-100 #3? 4-eng Civil transport (Boeing)A/C being ferried to facility for refurbishment after completion of FT program; landed short, much damage but repairedShort runway at edge of lake, details TBDNTSB report AAR70- 195; NRS # PB- 195193?/0/? Pomona; Pomona; PSI-195193Renton, Wash- ingtonC-5A #1 or #11 Fire consumed A/C during transport (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD??/??/0Edwards USAFBWeb Transport (Lockheed)Rejected takeoff test series; LH MLG strut failedTBDICAO 70/1584TBD05/22/70Pomona; NJX-22 #1 TBDTBDTBDDesigners search seriestTBD??/??/??TBD"Guppy" (TGD) (TBD)Eng-fail T/O @ Vmcg; rudder defi reduced; lost controlEvidence of rudder cable becoming disconnected,Web4/4/-05/12/70EAFB, Calif(Moddi w much Larg Fuse Diam a-caused damage to vertical & horiz stabsEvidence of rudder ruboprop TransportTBDTBD04/08/70Santa Barbara, Calif | <u>TYPE</u> | | <u>ROOT CAUSE</u> | | | | |
| A-eng Civil transport (Boeing)In or refurbishment after completion of FT program; landed short, much damage but repairedIn or refurbishment after of lake, details TBDIreport AAR70- 19; NRS # PB-Wash- ingtonC-5A #1 or #11 4-Eng Mil Transport (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD????70Edwards USAFBC-5A #1 or #11 (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD????70Edwards USAFBC-5A #1 or #11 (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD????70Edwards USAFBModel 1121 #? (TBD)Rejected takeoff test series;LH MLG strut failedTBDICAO 70/1584TBD05/22/70Pomona; NJX-22 #1 (TBD)TBDTBDDesigners & Test Pilots p142TBD????????TBD"Guppy" (Modified Boe 377 transportEng-fail T/O @ Vmcg; rudder defl reduced; lost controlEvidence of rudder cable becoming disconnected, TBDWeb search Sure.net4/4/- O5/12/70Santa Barbara, Calif"Gupy" (Modif w much Laracteristics; buffeting caused damage to vertical & horiz stabsTBDTBDTBDTBDLard (NTSB LAX70FU TransportFAA certif demo of Md/Vd Anarcteristics; buffeting caused damage to vertical & horiz stabsTBDTBDTBDA/08/0TransportFAA certif demo of Md/Vd Anarcteristics; buffeting cause | | | | MATL ID | <u>INJURIES</u> | | |
| A-eng Civil transport (Boeing)In or refurbishment after completion of FT program; landed short, much damage but repairedIn or refurbishment after of lake, details TBDIn or report completion of FT program; landed short, much damage but repairedIn or refurbishment after of lake, details TBDIn or report AAR70- 19; NRS # PB-Wash- ingtonC-5A #1 or #11 4-Eng Mil Transport (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD??/??/0Edwards USAFBVockheed)report 12121Fire consumed A/C during ground operationsTBDJBaugher websiteTBD??/??/0Edwards USAFBVockheed)report (Lockheed)Rejected takeoff test series;LH MLG strut failedTBDICAO 70/1584TBD05/22/70Pomona; NJX-22 #1 (TBD)TBDTBDDesigners & Test Pilots pl42TBD??/????TBD"Guppy" (Modified Boe 377 transportEng-fail T/O @ Vmcg; rudder defl reduced; lost controlEvidence of rudder cable becoming disconnected,Web search Sure.net4/4/- Santa Barbara, CalifYang Diam (Modif w much Larger Fuse Diam) 4-Eng TransportFAA certif demo of Md/Vd Nd/VdTBDTBDTBD64/08/70Santa Barbara, CalifYang Diam (Dot prop TransportFAA certif demo of Md/Vd Anarcteristics; buffeting caused damage to vertical & horiz stabsTBDTBDTBDTBDCAO YO(1419Santa Barbara, Calif | | | | | | | |
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| transport (Boeing) completion of FT program; landed short, much damage but repaired C-5A #1 or #11 Fire consumed A/C during 4-Eng Mil Transport (Lockheed) Terransport (Lockheed) TBD | | . | • 8 | | •/0/• | 07102/10 | <i>,</i> |
| (Boeing)landed short, much damage but repaired19; NRS # PB- 19519319; NRS # PB- 195193C-5A #1 or #11 4-Eng Mil Transport (Lockheed)Fire consumed A/C during ground operationsTBDJBaugher websiteTBD??/??/0Edwards USAFBModel 1121 #? 'Jet Commander" (TBD)Rejected takeoff test series;LH MLG strut failedTBDICAO 70/1584TBD05/22/70Pomona; NJX-22 #1 (TBD)TBDTBDDesigners & Test Pilots p142TBD??/??/??TBD"Guppy" | - | | of lake, details 1 BD | - | | | |
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| (Lockheed)Image: constraint of the second series is the serie | 4-Eng Mil | ground operations | | website | | | USAFB |
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| (Modified Boe 377 transport)rudder defl reduced; lost controlcable becoming disconnected,search Sure.netCalifCL44FAA certif demo of Md/VdTBDICAOTBD04/08/70Santa(Modfd w/ much Lrgr Fuse Diam) 4-Eng Turboprop Transportcharacteristics; buffeting caused damage to vertical & horiz stabsrutical and | "Guppy" | Eng-fail T/O @ Vmcg; | Evidence of rudder | Web | 4/4/- | 05/12/70 | EAFB, |
| 377 transport)controldisconnected,Sure.netII< | | 8 | cable becoming | search | | | Calif |
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| Lrgr Fuse Diam) 4-Eng Turboprop Transportcaused damage to vertical & horiz stabs(NTSB LAX70FU 704?)Calif | - | | | | | | |
| 4-Eng horiz stabs LAX70FU Turboprop 704?) | Lrgr Fuse Diam) | , C | | | | | , |
| Turboprop 704?) Transport 704?) | 4-Eng | e | | · | | | |
| Transport | Turboprop | | | | | | |
| | | | | /04.) | | | |
| | (Canadair) | | | | | | |

| MANEUVER | SUMMARIZED | <u>REPORT</u> | | DATE | LOCATION |
|------------------------------------|---|--|--|---|---|
| | <u>ROOT CAUSE</u> | <u>ID/</u> | TIES/ | | |
| | | MATL ID | INJURIES | | |
| | | | | | |
| A fet I im CC to st fit for stalls | | NITCD | 2/0/0 | 05/05/60 | Desedele |
| | | | 2/0/0 | 05/05/09 | Rosedale, |
| & Vmca. Crashed during | | Summary | | | Okla |
| recovery "from spin" | | (FTW69A | | | |
| | | 008D) | | | |
| FAA Cert Lnding Dist Test | Structural Damage to | NTSB | 18/0/0 | 02/16/68 | Seattle, |
| e | e | Summary | | | Wash |
| | g. | - | | | |
| | | ` | | | |
| | | 54) | | | |
| Crashed short of munway on | Wings wore swont in | IRoughor | 9/9/9 | 01/19/67 | Edwards |
| · · · · · | e . | 0 | •/•/• | 01/1//07 | |
| approach | wrong direction | website | | | USAFB |
| | | | | | |
| 2 AC anashed during flight | | | | | |
| 8 8 | Details I DD | | | ~1700 | |
| i c , | | | | | |
| simulated rescue mission | | | | | |
| hard landing | | | | | |
| taxi event | | | | | |
| | Aft Lim CG test flt for stalls & Vmca. Crashed during recovery "from spin"FAA Cert Lnding Dist Test Hard NG TouchdownCrashed short of runway on approach3 AC crashed during flight test program; simulated rescue mission hard landing | ROOT CAUSEAft Lim CG test flt for stalls & Vmca. Crashed during recovery "from spin"FAA Cert Lnding Dist Test Hard NG TouchdownStructural Damage to FuselageCrashed short of runway on approachWings were swept in wrong direction3 AC crashed during flight test program; simulated rescue mission hard landingDetails TBD | ROOT CAUSEID/ MATL IDAft Lim CG test flt for stalls & Vmca. Crashed during recovery "from spin"NTSB Summary (FTW69A 008D)FAA Cert Lnding Dist Test Hard NG TouchdownStructural Damage to FuselageNTSB Summary (SEA68A0 52)Crashed short of runway on approachWings were swept in wrong directionJBaugher website3 AC crashed during flight test program; simulated rescue mission hard landingDetails TBDImage: Comparison of the state of | ROOT CAUSEID/ MATL IDFATALI THES/ MATL IDAft Lim CG test flt for stalls & Vmca. Crashed during recovery "from spin"NTSB2/0/0FAA Cert Lnding Dist Test Hard NG TouchdownStructural Damage to FuselageNTSB Summary (SEA68A0 52)18/0/0Crashed short of runway on approachWings were swept in wrong directionJBaugher website?/?/?3 AC crashed during flight test program; simulated rescue mission hard landingDetails TBDII | MATERMATERMATERFATALI ID/ MATL IDFATALI TIES/ NJURESAft Lim CG test flt for stalls & Vmca. Crashed during recovery "from spin"NTSB Summary (FTW69A 008D)2/0/005/05/69FAA Cert Lnding Dist Test Hard NG TouchdownStructural Damage to FuselageNTSB Summary (SEA68A0 52)18/0/002/16/68Crashed short of runway on approachWings were swept in wrong directionJBaugher website?/?/?01/19/673 AC crashed during flight test program; simulated rescue mission hard landingDetails TBDI.S.~1966 |

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|---|---|---|--|--|----------|-----------------------|
| <u>AIRCRAFT</u> <u>TYPE</u> | <u>MANEUVER</u> | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
| XB-70 #2 "Valkyrie" 4-eng Mil Bomber Prototype (North American) | PR Photo mission of 6 GE eng powered A/C @ EAFB; F-104N on Rh side, its horiz contacted wing droopTE. 104 then rolled up & over B- 70 impacting both its verticals. 104 disintegrated in-flight. Films show 104 slowly moving fwd relative to B-70. | Probably wing tip vortices caused impact. ED note; This event caused much speculation & rumors. "Liteness" of tech tests beyond the PR photo test lead some to believe reason for this flight was the photos. Accident report has "cause" blackened out. | USAF Accident Report; Test Pilots;Hall ion; p246 | 3/2/1 Carl Cross, Joe Walker | 06/08/66 | Barstow, Calif. |
| Trident I 3-Eng Jet Civil Transport (Hawker Siddeley) | Prod Test plan reqd stalls w/ stall warning & stick pusher operative and then deactivated; purpose of last set was to go slightly beyond pusher setting and ensure no wing drop; upon initiating recovery A/C remained in slow speed, high descent rate, then entered slow spin and crashed w/ very little forward speed | Pilot apparently delayed recovery beyond targeted 3-4kts below pusher schedule; test point was @ ldg flaps, gr dwn, which produces flat attitude; margin from nominal pusher actuation schedule to "superstall" regime of this model quoted as 4 1/2 degrees. | British Investiga- tion Report EW/C/013 0, dtd July 1968 | 4/4/- | 06/03/66 | Felthorpe, England |

| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | # CREW/ | DATE | LOCATION |
|------------------|--------------------------------|------------------------|---|--------------------------|----------|------------|
| <u>TYPE</u> | | ROOT CAUSE | $\frac{\underline{ID/ID}}{\underline{ID/ID}}$ | FATALI | | |
| | | KOOT CAUSE | MATL ID | <u>TIES/</u> INJURIES | | |
| | | | | <u>INJUNED</u> | | |
| | · · · | | | | | |
| T-210F Cessna | Tests to "calibrate autopilot | TBD | NTSB | 2/2/- | 01/04/66 | Mayfield, |
| Centurion | sensitivity". Observed to | | Summary | | | Kansas |
| | enter climb then dove into | | MKC66A0 | | | |
| | ground | | 036 | | | |
| XV-5A | "series of accidents", details | TBD | | | ~1965/66 | |
| VSTOL XPRT | TBD | | | | | |
| (GE-RYAN) | | | | | | |
| Convair 240-D | Flutter test, details TBD | TBD | NTSB | 3/0/0? | 08/04/65 | San Diego, |
| Conversion | | | Summary | | | Calif |
| N94294 | | | LAX66A0 | | | |
| | | | 015 | | | |
| HFB 320 #1 | A/C conducting stall tests of | 121st flight. Two crew | Aviation | 3/1/? | 05/12/65 | Torrejon, |
| "Hansajet" | some type @ ~22k ft. A/C | members parachuted | Safety | | | Spain |
| 2-Eng Bizjet | reportedly entered | safely. Cause TBD | Website; | | | _ |
| (MBB) | "superstall" and then into | | FS design | | | |
| | flat spin. Crashed | | Website | | | |
| C337 | Wheels up landing | TBD | | 0/0/1 | 01/14/65 | Wichita, |
| 2eng util | | | | | | Kansas |
| (Cessna) | | | | | | |
| F-111A #1 | First flight; shortened due | TBD | JBaugher | ?/?/? | 12/21/64 | Carswell |
| | to "flap malfunction" | | website | | | USAFB |

| | FLIGHT IEST AIKCKAF | | 1 | | 1 | |
|----------------------|---|--------------------------|--------------------------|--|----------|-------------|
| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
| | 1 | 1 | | | 1 | |
| BAC 1-11 #? | 7 th stalling flt since accident | Pilot misinterpreted | British | 4/0/0 | 08/20/64 | Tilshead, |
| Twin-Jet Civil | on #1 A/C; in recovery from | cues and didn't believe | investigati | | | England |
| Transport | 1 st stall, pilot had perception | gauges (AOA); config | on Report | | | |
| (British | A/C was in a stable | was LE and TE (flaps) | EW/C/07, | | | |
| Aircraft Corp) | superstall due to high R/D; | devices retracted; | December, | | | |
| | drogue chute deployed ; ldg | speed was above 200kts | 1964 | | | |
| | flaps deployed, full power | when chute deployed | | | | |
| | applied, R/D reduced ; gr | so produced small ND | | | | |
| | retracted landing on | pitching thus | | | | |
| | downsloped, wet grassy | reaffirming impression | | | | |
| | meadow accomplished; | of being in superstall | | | | |
| | minimal damage to A/C | | | | | |
| M23 #1? | Attempted T/O w/ spoilers | TBD | NTSB | 0/0/2 | 06/04/64 | Wichita, |
| 2-Eng Biz Jet | extended, crashed | | summary | | | Kansas |
| (Learjet) | | | | | | |
| B-52H | Reportedly encountered | Not known what if any | Cool | X/0/0 | 01/07/64 | Over |
| 8-Eng Bomber | "mountain wave" turbulence | maneuvers were being | wings | | | Rockies, |
| (Boeing) | & lost most of Vertical (& | conducted. Boeing test | Website | | | Landed |
| | rudder). Crew elected to | crew was onboard. | | | | Blytheville |
| | proceed to SAC base @ | | | | | , Ka. |
| X (0, 10, //1 | Blytheville KA | | NO 10 | 9/9/9 | 12/31/63 | *** |
| VC-10 #1 | Upon recovery from "clean" | RhInbd elev had failed. | VC-10 | ?/?/? | 12/31/03 | Wisley, |
| 4-Eng Jet Civil | stall had severe vibr. Slowed | Escape hatch sys fired | Website | | | England |
| Transport | and discovered struc | but chute left A/C with | | | | |
| | damage. Made emerg ldg | hatch. Root cause TBD | | | | |
| | w/many sys inop | | | | | |

| | | | | | | LOCATION |
|-------------------------|------------------------------|---------------------------|---|--|----------|------------|
| AIRCRAFT <u>TYPE</u> | <u>MANEUVER</u> | SUMMARIZED ROOT CAUSE | <u>REPORT</u> <u>ID/</u> <u>MATL ID</u> | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
| | | | | | | |
| | | | | 1 10 11 | 10/10/62 | |
| NF-104A | Modified from "A" Config; | AOA for spin caused | JBaugher | 1/0/1 | 12/10/63 | Edwards |
| Research | Loss of control @ 104,000ft | by gyro effects of jet | website | (C. | | USAFB |
| Vehicle #2 | followed by spin to 11000ft; | engine spooling down | | Yeager | | |
| Modfd Mil | pilot then ejected | w/ little /no A/C control | | burned) | | |
| Tactical | | @ that flight condition | | | | |
| (Lockheed) | | | | | | |
| BAC 1-11 #1 | Deep Stall | | British | 7/7/0 | 10/22/63 | Chicklade, |
| Twin-Jet Civil | | | investigati | | | Engaland |
| Transport | | | on report | | | C |
| (British | | | EW/C/039 | | | |
| Aircraft Co) | | | , dtd | | | |
| , | | | November | | | |
| | | | 1964 | | | |
| YF-12A(A-12) | Nominal flight; entered | Water vapor caused | Amer Mil | 1/0/? | 05/24/63 | Wendover |
| Twin-jet SS | moisture; A/C stalled; pilot | blockage in pitot | Acft | | | , Utah |
| Recon | ejected | probe; caused | website | | | , |
| (Lockheed) | | erroneous air-data; | | | | |
| B-58 #8 | "normal flight" | "loss of control due | Amer Mil | 3/3/0 | 06/04/60 | Lubbock, |
| "Hustler" | | Atmospheric conditions | Acft | (Conv | | Texas |
| 4-Eng Bomber | | & subsequent | website | air | | I UNUS |
| (Convair) | | abandonment in | W CDSILC | crew) | | |
| | | supersonic flight" | | | | |
| B-58 #30 | "normal flight" | "loss of control due | Amer Mil | 3/2/? | 04/22/60 | Ogden, |
| "Hustler" | | Mach/airspeed/airdata | Amer Min Acft | (Conv | | Utah |
| | | - | website | air | | Utall |
| 4-Eng Bomber | | sys failure | website | | | |
| (Convair) | | | | Crew) | | |

| | MANELWED | | | # CREW/ | | LOCATION |
|--------------|---------------------------------|---------------------------------------|---------------|-----------------|----------|----------|
| AIRCRAFT | <u>MANEUVER</u> | SUMMARIZED | <u>REPORT</u> | FATALI | DATE | LUCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| D 50 49 | Diamand #4 and failure of | Small ting notating of | EAED | V /0/0 | 04/13/60 | FAED |
| B-58 #? | Planned #4 eng failure at | Small tires rotating at | EAFB | X/0/0 | 04/13/00 | EAFB, |
| "Hustler" | Go/NoGo speed. Immediate | very high speed. Details | History | | | Calif |
| 4-Eng Bomber | one tire failure leading to | TBD | website | | | |
| (Convair) | failure of remaining 6 of7 on | | | | | |
| | one side. Debris caused | | | | | |
| | failure of two hydraulic | | | | | |
| | systems. Dropped CL pod, | | | | | |
| | burned fuel, made ldg on | | | | | |
| | foamed runway. | | | | | |
| B-58 #5 | Inflt refueling test failed due | "Apparent mismatch | Amer Mil | 2/2/0 | 11/07/59 | Lawton |
| "Hustler" | sys malf. Decision w/ test | between A/C design | Anter Min | (Conv | 11/0//07 | Okla |
| | · | 8 | | • | | UKIA |
| 4-Eng Bomber | control to do test point | and test conditions". | website; | air | | |
| (Convair) | consisting of sudden eng | Not known if test point | USAF | Crew; | | |
| | failure at Mn2.0 @FL370. | was preplanned or | Accident | 1Plt, 1 | | |
| | Telemetry in use. A/C | ad/hoc addition. 42 nd flt | Report | FTE) | | |
| | yawed and then | & 58:55 flt hours on | | | | |
| | disintegrated upon eng | A/C | | | | |
| | shutdown. | | | | | |
| B-58 #10 | "loss of control during | TBD | Amer Mil | 3/1/2 | 10/27/59 | Hatties- |
| "Hustler" | normal flight'' – during | | Acft | (Convair | | burg, Ms |
| 4-Eng Bomber | climb from FL305 to 345 | | website; | Crew, 1 | | 3 |
| (Convair) | A/C rolled to RT. After ~2 | | USAF | of 2 FT Engr | | |
| | | | Accident | perished) | | |
| | turn "spin" capt ordered | | | | | |
| | ejection | | Report | | | |

| | | | DEDODE | # CDEW/ | | LOCATION |
|---------------|--|---------------------------|---------------|--------------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| YF4H-1 #1 | Crash following failure of | TBD | JBaugher | 1/1/0 | 10/21/59 | ~near St. |
| "Phantom II" | RH eng aft access door | | website | | | Louis, |
| Mil Tactical | | | | | | Missouri |
| (McDonnell) | | | | | | |
| 707-227 #? | 1 st Prod –200 A/C on combo | High side loads | AV Sfty | 8/4/? | 10/19/59 | Arlington, |
| 4-Eng Civil | customer acceptance, crew | developed during | Ntwrk; | | | Washing- |
| Jet Transport | training & cust guarantee | sideslip generated in | Jet Age | | | ton State |
| (Boeing) | flt; dutch rolls (DR) were | DR maneuver; roll | Test Pilot, | | | |
| | conducted, #1,2,&4 engines | angle limits for DR | Johnson, | | | |
| | were slung off; #3 eng | demo exceeded (limit | p251; | | | |
| | dislodged, fire fron it burned | 25, actual 40-60). Subsq | CAB | | | |
| | off flap & into wing struc. | mods to 707 made, | Report | | | |
| | Crash ldg | larger vert, added | SA-347 | | | |
| | | ventral fin, & Y/Dr | | | | |
| YF-107A #3 | Takeoff aborted w/ resulting | Both tires blew and | JBaugher | 1/0/0 | 09/01/59 | Edwards |
| Mil tactical | major damage | LH brake burst; | website | Scott | | USAFB |
| (North Amrcn) | | reasons TBD | | Crosfi | | |
| | | | | eld | | |
| DC-8 #2 | FAA certif test of Ldg Air | Throttle retard at | Personal | 8/0/0 | 05/14/59 | EAFB, |
| 4-Eng Civil | Distance; hard touchdown | slightly higher alt than | Knowledge | | | Calif. |
| Jet Transport | short of runway on lakebed | planned, coupled w/ | | | | |
| (Douglas) | overrun; flung #1 pylon/eng | min scheduled | | | | |
| _ | off wing, fractured fuse just | approach speed | | | | |
| | aft of wing | resulted in limited flare | | | | |
| | | capability | | | | |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|---|--|--|-------------------------------|--|--------------------|------------------------------|
| Model 152 #? 4-Eng Civil Jet Transport (East Germny) | Crashed enroute to Flyby demo for N. Kruschev; may have been practicing | Believed to be bubbles in fuel lines | A&S Feb/Mar 96 | 5/5/- | 03/14/59 | Kltzsche, East Germany |
| HPR-100 #? "Herald" (Handley Page) | FT A/C; Enroute to airshow, eng fire broke out, required immed crash ldg | TBD | Av Sfty Network Website | 9/0/? | 08/30/58 | Milford, England |
| CF-105 #1 Mil Tactical (Avro Canada) | LH landing gear failed upon landing & A/C skidded off runway w/ moderate damage | Upon extension strut did not align w axis of A/C; details TBD | JBaugher website | ?/?/? | 06/11/58 | TBD |
| F-27 #1 "Friendship" TwinTurboprop Civil Transport (Fairchild) | TBD, indications was ground event | TBD | AV Sfty Network Website | TBD | 05/09/58 | ?,US |
| YF-104A 17 Srv Tst A/C Mil tactical (Lockheed) | Several A/C crashed during flight test program | TBD. Several pilots perished. ? upon low level ejections, 1 upon landing loss of control. | JBaugher website | ?/?/? | ~56/57 02/15/57 | ?Edwards USAFB |

CREW/ **LOCATION** AIRCRAFT MANEUVER **SUMMARIZED** REPORT DATE FATALI TYPE **ROOT CAUSE** ID/ TIES/ MATL ID **INJURIES** TBD, possibility related 15/15/-11/06/57 **Model 175** Engr test flight for prop **AV Sfty** Downend, Britannia 301 Ntwrk strain gauge measurements to autopilot England and FAA cert; upon (Bristol) Website initiation of LH turn to base. sharp right roll developed w/ crash A-4D #tbd A/C lost in early flight tests Later publ states cause Airplane 1/1/0 ??/??/?? TBD as powered ail sys S&C. (James Mil Tactical (Details TBD) Virdin) failure coupled with Abzug & (Douglas) fuel shift in wing tank Larrabee' (implies due to p204 sustained wing down flight) **YF-100 #TBD** Later publ states CG ??/??/?? Func check flight of external Airplane 1/0/0 WPADC. wing tanks. 50 gal loaded of shifted aft due fuel shift "SuperSabre" S&C, Ohio 275 capacity. After L/O A/C Mil Tactical aft in external tanks & Abzug & went thru series of pitch using fwd fuse tank Larrabee' (North Amer) oscillations. Was damaged fuel. CG went aft of **P204** but landed maneuver point. XF-104 #1 While acting as chase, tail **TBD JBaugher** 1/0/? 07/11/57 ?Edwards **Mil Tactical** group broke away inflt due Website USAFB (Lockheed) flutter; plot ejected

| | FLIGHT TEST AIRCRAF | I ACCIDENTS AND SIC | JNIFICANI | | 13 | |
|--------------|-----------------------------|-------------------------|---------------|-------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | # CREW/ FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| YF-104A #8 | Departure during sideslip | Tip tanks not installed | The | 1/0/1 | 05/01/57 | Barstow/ |
| Mil Tactical | test, upon divert to EAFB, | properly, details TBD | Ejection | | | EAFB, |
| (Lockheed) | A/C became uncontrollable | | Seat | | | Calif |
| ``´´ | & pilot ejected. Some items | | Website; | | | |
| | in report blocked out. | | USAF | | | |
| | | | Accident | | | |
| | | | Report | | | |
| F-100C | Crashed, details TBD | TBD | Geocities | 1/?/? | 04/07(or | ?Edwards |
| 2-seater | | | Website | | 09)/57 | USAFB |
| Prototype | | | | | | |
| Mil tactical | | | | | | |
| (North Amer) | | | | | | |
| B-52B #24? | Conducted 0G maneuver as | TBD | FTSC | X/X/X | 03/29/57 | Wichita, |
| (Boeing) | part of loads testing; A/C | | Workshop | | | Kansas |
|)) | broke up, details TBD | | (B. Wygle) | | | |

| | FLIGHT IEST AIKCRAF | | | - | | LOCATION |
|------------------|--|----------------------------|----------------|--------------------------|-----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | ID/ | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | Ι | | r | T | | |
| F-106A #1 | First flight; speed brakes | TBD | JBaugher | 1/0/0 | 12/26/56 | Edwards |
| Mil Tactical | opened but would not close; | | website | | | USAFB |
| (Convair) | precautionary ldg made | | | | | |
| XP6M-1 #2 | #1 A/C crashed in 55. | Elevs fixed to stab this | USAF | 4/0/0 | 11/09/56 | Patuxent |
| "Seamaster" | Following chgs, addn of | flt. Flt planned w/ .87 | Accident | Crew | | River, Md |
| (Four jet flying | instrumentation, T/M & | Mn limit. As vibr much | Report: | ejected | | Based @ |
| boat) | ejection seats, program | reduced @ .87Mn, T/M | Test | as airfram | | Middle |
| Advanced A/C | restarted FT in 5/56. | data center requested | Pilots;Hall | e broke | | River, Md. |
| for its day. | Airframe vibr investig | point @ .90 Mn. | ion; p227: | up | | |
| Fully hyd | resulted in some config | Investig revealed error | Glenn | - | | |
| powered flt | change nearly every flight. | in tail hinge moment | Martin | | | |
| controls. | On 24 th flight, shallow dive | computation, and large | Museum | | | |
| Flying horiz | @.90Mn conducted for | increase in level at the | Website | | | |
| tail w/ elev | vibration data. Upon | high speed test cond. | | | | |
| mechanically | recovering w/ slight +G A/C | Reanalysis w/ correct | | | | |
| geared to stab. | continued to pitch up into | data <u>and previously</u> | | | | |
| (Martin) | tight inside loop. Pulled 9G. | <u>unanalyzed</u> "elev | | | | |
| | Crew ejected at ~vertical. | fixed" config showed | | | | |
| | A/C entered spiral w/ | stab hyd actuator | | | | |
| | explosion @ ~5k ft | undersized. | | | | |
| XV-3 #1 | Uncontrollable descent and | "Rotor instability | Air & | ?/?/? | 10/??//56 | TBD, |
| Exp Tiltrotor | Hard landing | problem" | Space | | | Texas |
| Bell A/C Co. | _ | _ | Magazine | | | |
| YF-107A #1 | First flight; drogue failed | TBD | JBaugher | 1/0/0 | 09/10/56 | Edwards |
| Mil Tactical | upon ldg; A/C ran past end | | website | | | USAFB |
| (North Amer) | of runway into ditch | | | | | |

| | | | | # CREW/ | r | LOCATION |
|---------------|--|--|---------------|----------|------------------------|-----------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | FATALI | DATE | LUCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | ~ • | 4 12 12 | 22/22/22 | |
| FJ-3 Fury | Pilot got lost, ran out of fuel, | TBD | Cybertron | 1/?/? | ??/??/?? | Patuxent |
| 13th Prod A/C | had to ditch | | website | | | River, Md |
| Mil Tactical | | | | | | |
| FJ-3 Fury | Mid-air explosion and crash | Some sort of foreign | Cybertron | 1/?/? | ??/??/?? | Patuxent |
| 12th Prod A/C | - | object injection | website | | | River, Md |
| Mil tactical | | | | | | , |
| XB-51 #1 | During ferry flight to | TBD, one document | SFTE NL | 2/2/- | 03/25/56 | El Paso, |
| 3-Eng Jet | Florida from EAFB related | mentions "pilot error" | (R . | _/_/ | | Texas |
| Bomber | to filming of movie "Toward | mentions phot error | Hallion) | | | 1 CAU5 |
| (Martin) | the Unknown'' crashed | | manion) | | | |
| | | | | | | |
| | during takeoff | | | 4 40 40 | | |
| YF-105A #1 | S&C Flt early in program. After | The uuplock mech. failed. | USAF | 1/0/0 | 12/16/55 | Edwards |
| Jet Attack | tests @ 30k & 20k conducted lvl | There was deform. of | Accident | (Chase | (Accident brd chair | USAFB |
| (Republic A/C | flt turns @ 0.9Mn w/ increasing | various parts & of attach | report; | Pilot | | |
| Co.) | G; 2,3,4,5 &6G. On 6G run at | structure. LH gear mech | JBaugher | was Bob | was Milt | |
| | ~5.5G, Ldg gear extended. | was nearly unlatched. | website | White) | Apt) | |
| | Violent P/U &P/D. RH gear torn | "Buried' statement says | website | | | |
| | away. Emergency ldg w/ LE devices & partial flaps & | uplock mech "only" tested to 3G load level. Pilot | | | | |
| | remaining Gr Up. Pilot Ok, | report states longit control | | | | |
| | substantial damage to A/C. Prior | difficult at high subsonic | | | | |
| | to 10k points pilot had pulled | Mn, and lat cntrl had too | | | | |
| | various fuel pump C/Brs for CG | large a deadband. | | | | |
| | cntrl. Fuel C/Brs were not reset, | "Classic" lakebed crash | | | | |
| | A/C Indd w/ only 300lb fuel in the | ldg; CFR lined runway, | | | | |
| | one tank supplying eng. | canopy blown @ T/D, chase | | | | |
| | | called height, switches off | | | | |
| | | @ stop, pilot stepped up & | | | | |
| | | off. | | | | |
| | 1 | | 1 | 1 | 1 | 1 |

| AIRCRAFT TYPE | <u>MANEUVER</u> | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|--|--|--|---|---|--|---|
| XP6M-1 #1 "Seamaster" (4-Eng Mil Jet Flying Boat) Advanced A/C for its day. Fully hyd powered flt controls. Flying horiz tail w/ elev mechanically geared to stab. (Martin) | 40 th flt & early flt of "prelim Navy eval". Inflt msrmnt of loads/moments not accmpshed as yet due instrum and schedule. Long control anomaly reported on previous flt that day. First flt in A/C for navy pilot. Static Long stab points planned in 10k ft, @ "Vmax" regime. @ ~.85Mn in shallow dive A/C nosed over into tighter outside loop. Inflt struc breakup occurred. Fire/explosion coincident /preceded nose over. No radio following, chase A/C, nor T/M. Intercom recording "wire" found jammed from last ldg. | Believed to be runaway stabilizer. Exact cause not determined. 7 possible causes of stab movement considered, 3 deemed "unlikely". 4 most likely; a) Explosion in wing stub or fwd plumbing area; b) Broken or snagged cable; c) Loss of Feel System; d) Loss of one hyd sys. Navy "eval" was to be w/i contractor tested envelope. While individual test point variables (GW, CG, Speed/Mn) were within previously test points, combination <u>not</u> previously tested (Ed determination). Rime ice noted on flaps on prev flt of day, I/P use not noted. | USAF Accident Report; Test Pilots; Hallion; p227; Glenn Martin Museum Website | 4/4/- Plt & C/P stayed w/ A/C; FE & FTE ejected, did not survive. FTE had not attached auto- matic opening lanyard. | 12/07/55 FE had done so, chute opened, but he believed unconscio us, did not have automatic inflating mae west, and so drowned | Patuxent River, Md. Based @ Middle River, Md. |

| | | | | | | LOCATION |
|---------------------|--|--------------------------------|---------------|--------------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | | | | 1] |
| X-2 | 13 th powered flt; first flt in | Example of "inertial | NASA | 1/1/0 | 09/27/55 | Edwards |
| R&D Rocket | A/C for pilot; first flight to | coupling" | DFRC | (Mel | | USAFB |
| Plane | reach Mach 3.0, unexpected | phenomenon; | Website; | Apt) | | |
| (Bell) | turn initiated above M3.0; | documents refer to | Test | | | |
| | Diverging rolls followed by | "poor test planning"; | Pilots;Hall | | | |
| | tumbling; | implies high level | ion; p215 | | | |
| | | pressure to attain | | | | |
| | | M3.0. | | | | |
| | | Reports imply pilot was | | | | |
| | | instructed/advised to | | | | |
| | | not turn at high Mn | | | | |
| X-1 Adv "A" | While being transported to | LOX tank blew out at | SFTE NL; | 1/0/0; | 08/08/55 | Edwards |
| Rocket Plane | launch alt, X-1 sustained low | aft lower area. Leakage | X-15 | 7/0/0 | | USAFB |
| (Bell) | order explosion. Pilot | of leather seals found | Diary; | (B-29) | | |
| | scrambled into mother ship. | to be root cause | Tregaskis | | | |
| | Passed out due lack of O2 | | | | | |
| | bottle. Assessed damage. | | | | | |
| | Reentered X-1 to jettison | | | | | |
| | fuel & remove ejection seat. | | | | | |
| | "Cooking peroxide" | | | | | |
| | reported. A/C was then | | | | | |
| | jettisoned | | | | | |
| | Jerred | | | 1 | | |

| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | # CREW/ | DATE | LOCATION |
|-----------------|------------------------------|------------------------|---------------------------------------|-------------------|----------|------------|
| TYPE | MANEOVER | ROOT CAUSE | $\frac{\mathbf{REFORT}}{\mathbf{ID}}$ | FATALI | DAIL | |
| | | KUUI CAUSE | MATL ID | TIES/ INJURIES | | |
| | | | | <u>INJUKIES</u> | | |
| | II | | | | | |
| XF-84H #1 &2 | Twelve flights over 15 | TBD | Worlds | ?/?/? | 07/22/55 | TBD |
| Mil tactical | months on 2 prototypes. Ten | | Worst | | | |
| (jet fighter | flights ended in emergency | | A/C; pg | | | |
| refitted with | landings. | | 110; Bill | | | |
| turboprop) | Details TBD | | Yenne | | | |
| (Republic) | | | | | | |
| YC-130 #1 Mil | Eng Fire on Ldg | TBD | | ?/ | 04/14/55 | Marietta, |
| Transport | | | | | | Ga. |
| (Lockheed) | | | | | | |
| XF-104 #? | Following cannon firing | Some sort of gun malf | JBaugher | 1/0/? | 04/14/55 | Edwards |
| Mil Tactical | severe vibrations w/ loss of | | website | | | USAFB |
| (Lockheed) | pressure; pilot ejected | | | | | |
| F-100 #? | Some sort of failure of | TBD | Guiness | 1/0/1 | 02/26/55 | Laguna |
| "Super Sabre" | controls in a dive. Pilot | Pilot remained | Book of | (George | | Beach, |
| Mil Tactical | ejected at Mach 1.05 – first | unconscious for 5 days | Aircraft; | F. | | California |
| (North Amer) | successful ejection from | but made full recovery | Monday | Smith) | | |
| | supersonic flight | | | | | |
| XF-104 #2 | Vulcan cannon envelope | Round exploded in | JBaugher | 1/0/0 | 12/17/54 | Edwards |
| "Starfighter" | expansion testing; engine | breech, blowing bolt | website | (Tony | | USAFB |
| (Lockheed) | ran rough; was shutdown | back into fuel cell w/ | | LeVier) | | |
| | and dead stick landing made | fuel running into gun | | | | |
| | | bay & then into eng | | | | |
| | | inlet flooding eng | | | | |
| XF9F-9 (F11F- | Crashed attempting dead | Wright J65-W-7; TBD | JBaugher | 1/?/? | 10/20/54 | Calverton, |
| 1 prototype) #1 | stick landing following | | website | | | Long |
| "Tiger" | engine flameout | | | | | Island, NY |
| (Grumman) | | | | | | |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|---|---|---|--|---|----------|--|
| YF2Y-1 Sea Dart #2 ("YF") (Convair) | Low Alt, High Subsonic Speed Pass for Press & Naval Officers | Divergent longitudinal Pitching followed by structural breakup | Test Pilots;Hall ion; p226; JBaugher Website | 1/1/0 | 11/04/54 | San Diego Bay, Calif |
| F-100A #9 "Super Sabre" Mil Tactical (North American) | 48 th test flt. A/C conducting "Struc Integrity Demo" program, coupled w/ other develop tests. 50k ft test point done on 1 st flt of day. Attempt @ structural demonstration "end point" – design "G' (7.33) @ "max" speed & Mn. A/C had slight yaw upon entry: A/C attained 8.6 G @ ~1.5Mn where yaw increased dramatically, followed by in- air disintegration. No chase used. "Short vertical" config. Taller vertical became prod config. | Flight loads testing not done as yet. Earlier B/U flt attained 1.47Mn @ 6.9G w/ yaw building up. Per one docmnt: pilot attained 6 1/2G, short of max, pulled again, went past 7.33 max value to 8+G. "SID" test plan rvsd twice , then completely rewritten. First versions had definition of "max" Mn, but final version just used "Max". "S&C" testing only done to 1.2Mn. Many differing values (Mn, G, A/S) used in the various documents for same thing. NAA engr stated "we have said direct stability could be improved" | USAF Accident Report; JBaugher Website; X-15 Diary Pg 30; History zone website | 1/1/0 (George Welch North Amrcn Chief pilot) (Lt. Col. John Stapp (of sled testing fame) perform ed autopsy) | 10/12/54 | Edwards USAFB (Lancaster , Calif) |

| | | | | # CREW/ | | LOCKTION |
|---------------------|-------------------------------|---------------------------------|---------------|--------------------------|-------------|-----------------|
| AIRCRAFT TYPE | MANEUVER | <u>SUMMARIZED</u> ROOT CAUSE | REPORT ID/ | FATALI | DATE | LOCATION |
| | | KOOT CAUSE | | <u>TIES/</u> INJURIES | | |
| | | | MATL ID | INJUKIES | | |
| | 11 | | | | | |
| Model 175 | Following stall test #3 eng | Possibly related to prop | AV Sfty | 13/0/? | 02/04/54 | River |
| Brittania 101 | fire ensued, #4 S/D as | reduction gear | Ntwrk | | | Severen |
| (Bristol) | precaution, close to airport | | Website | | | Estuary, |
| | #3&4 engines failed, | | | | | England |
| | emergency Gr Up ldg made | | | | | _ |
| | on river mud flat | | | | | |
| Model 120 | Low Alt, high sped flutter | Elevon attachment | British | 1/0/? | 08/29/54 | Boscombe |
| Delta Research | test (4000ft, 450kts) | fitting compression | investigati | | | Down, |
| A/C #1 | experienced large vibr, | failed, lost balance | on report | | | England |
| (Boulton Paul) | attempted emerg Ldg, too | weights, connecting rod | ID; RAE | | | |
| | diff, ejected (great pilot | failed in buckling. | Structures | | | |
| | report; immed upon | | note 248, | | | |
| | parachute opening had | | dtd March | | | |
| | rough ldg in trees) | | 1953 | | | |
| XF3H-1 #1 | Crashed following engine | Westinghouse J-40; | JBaugher | ?/?/? | 03/18/54 | TBD |
| "Demon" | explosion | TBD | website | | | |
| XF-104 #1 | First flight; gear would not | Details TBD; low | JBaugher | 1/0/0 | 03/04/54 | Edwards |
| "Starfighter" | retract | pressure in hydraulic | website | | | USAFB |
| (Lockheed) | | system | | | | |
| TU-95 #1 | "Destructive crash" - Details | TBD | Brazilian | ?/?/? | ??/??/53 | TBD, |
| "Bear" | TBD | | Flight | | | Russia |
| (Tupolev) | | | magazine | | | |
| X-1A | After dive in which new | Details TBD. A/C | X-15 | 1/0/1 | ??/??/53 | Edwards |
| Research A/C | world speed record attained, | tumbled, severe | Diary; | (Yeager) | | USAFB |
| (Bell) | A/C encountered "inertial | physical beating of | Tregaskis | | | |
| | coupling" | pilot. | | | | |

| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | # CREW/ | DATE | LOCATION |
|---------------------------------|---------------------------------|--------------------------|------------|-------------------------------|----------|-----------------|
| TYPE | | ROOT CAUSE | ID/ | <u>FATALI</u> <u>TIES/</u> | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| YF-102 #1 | Inflight engine failure | Some sort of failure in | JBaugher | 1/0/1 | 11/02/53 | Edwards |
| Mil Tactical | resulting in forced lndg w/ | eng fuel control | website | | | USAFB |
| (Convair) | substantial damage | (Bendix) | | | | |
| A2D #? | The two propellers departed | TBD | USAF | 1/0/0 | 10/14/53 | Edwards, |
| "Skyshark" | A/C, canopy jammed closed, | | Accident | | | USAFB |
| (Douglas) | safe emergency landing on | | report | | | |
| | lakebed | | _ | | | |
| X-5 #2 | Pilot famil/qualif flight. Last | Not exactly known. | Test | 1/1/0 | 10/13/53 | Edwards |
| Variable | flt before turnover to | Low O2 press may | Pilots; | (Ray | | USAFB |
| Sweep | NACA. High alt stalls done. | have resulted in pilot | Hallion; | Popson) | | |
| Research A/C | O2 press reported low, rapid | not receiving sufficient | p217: | | | |
| (Bell) | descent made. Some residual | O2 @12/13K if on | USAAF | | | |
| | press left. Stalls @12k ft | normal demand. Pilot | Accident | | | |
| | conducted. Upon full sweep | had received thorough | report | | | |
| | stall (60 deg) A/C rolled over | briefing. Project pilot | | | | |
| | into spin and crashed. | was in chase A/C. Stall | | | | |
| | | char known to be | | | | |
| | | "sporty". | | | ~ | |
| XA2D-1 #? | Gearbox failure. Details | TBD; | Worlds | 1/0/1 | Summer/5 | Southern |
| "Skyshark" | TBD | Allison XT40 Engine | Worst | | 3 | Calif.; |
| Two fuse | | with complex gearbox. | A/C, pg | | | exact loc |
| mounted turbine engs driving | | | 96; | | | TBD |
| contrarotating | | | Bill Yenne | | | |
| prop assy thru | | | | | | |
| gearbox | | | | | | |
| (Douglas) | | | | | | |

| F | | | | | 1 | [|
|------------------------|------------------------------|--------------------------|-------------------|--------------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | ID/ | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | 1 | | | | | |
| XA2D-1 #? | Upon pullout from dive | TBD | Worlds | 1/0/0 | 06/??/53 | Southern |
| "Skyshark" | (details TBD) props pulled | | Worst | | | Calif; |
| (Douglas) | out from A/C. Pilot managed | | A/C; | | | Exact loc |
| | to land A/C. details TBD. | | Pg 96; | | | TBD |
| | Engine apparently still | | Bill Yenne | | | |
| | running. | | | | | |
| X-2 #2/B-50 | Captive carry test of rocket | Document states | Av Hstry | 1/1/- | 05/12/53 | Lake |
| Rocket Research | research A/C w/ "mother" | critical propellant tank | Website; | 4?/1/? | | Ontario, |
| & Mothership | ship; fire & explosion; X-2 | gasket material | NASA | Jean | | NY |
| - | ripped out of bay; mother | deteriorated w/ time | DFRC | Zieler | | |
| (Bell/Boeing) | ship damaged but made | which then allowed | website; | (Bell | | |
| () | successful emergency ldg & | explosion when tank | Test | pilot) | | |
| | ë . ë | - | | Frank | | |
| | was then scrapped. X-2 | pressurized. | Pilots;Hall | Walco | | |
| | remains at bottom of Lake | | ion; p214 | (B50 | | |
| | Ontario to this day | | | Test | | |
| | | | | crew) | | |

| | | | | | | LOCATION |
|-----------------|-------------------------------|---------------------------|---------------|-------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | # CREW/ FATALI | DATE | LOCATION |
| <u>TYPE</u> | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| F-84B Prod | Secret USAF test effort | Over 100 couplings | USAF | 1/1/- | 04/24/53 | Peconic |
| B-29 #093 | whereby fighters are | totaling over 26 hours | Accident | 5/5/- | 04/24/00 | Bay, LI, |
| 2 F-84s & B-29 | attached to bomber wing- | had been accomplished | | 5/5/- | | Day, L1, NY |
| modified w/ 2 | 8 | - | Report | | | 191 |
| | tips for lesser drag. Upon | over 3 year span of | | | | |
| point coupling | engaging A/P F-84 pitched | program. Same F-84s | | | | |
| mech. | up and rolled. Struck B-29 | and pilots had been | | | | |
| (Republic) | wing inverted. Otbd 5ft of B- | used. 5th flight of phase | | | | |
| | 29 wing separated, then | oriented to use of A/P | | | | |
| | entered LH spiral. RH wing | on F-84s while coupled. | | | | |
| | failed followed by emp- | Previous flight resulted | | | | |
| | ennage separation inflight. | in violent roll upon | | | | |
| | A/C crashed in ocean. F-84 | A/P engagement. | | | | |
| | made series of split S | Ground tests and | | | | |
| | maneuvers followed by | adjustments made. | | | | |
| | semicontrolled descent with | | | | | |
| | crash near a town. | | | | | |
| | Emergency release system | | | | | |
| | based on attitude | | | | | |
| | malfunctioned | | | | | |
| XP-86 #1 | TBD, crash (5 years after | TBD | JBaugher | ?/?/? | ~09/52 | TBD |
| "Sabrejet" | first flight) | | Website | | | |
| Model 630 #1 | Tropical climate eval; RH | TBD | Av Sfty | 5/0/? | 08/27/52 | Khartum, |
| "Viscount" | Gr collapsed some time | | Ntwrk | | | Sudan |
| (Vickers) | during ldg | | Website | | | |
| XF3H-1 #1 | Damaged during landing | TBD | JBaugher | ?/?/? | 08/??/52 | TBD |
| "Demon" | following engine failure | | Website | | | |

| AIRCRAFT <u>TYPE</u> | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|-------------------------|--|--------------------------|--------------------------|--|----------|------------|
| | | | | | | |
| Javelin #1 | On 99 th flight, encountered | TBD | Guiness | 1/0/0 | 06/29/52 | TBD, |
| Twinjet Delta | violent flutter. Elevators | | Book of | | | England |
| interceptor | departed A/C. Emergency | | Aircraft; | | | |
| (Gloster) | ldg made using thrust & | | Mondey | | | |
| | trimmable tailplane | | | | | |
| XB-51 #2 | Func Check Flt for Gr & | Lvl passes approved, | USAF | 1/1/- | 05/09/52 | Edwards |
| 3-Eng Jet | Bomb Bay ops. Then 4 low | but no acrobatic | Accident | | (151hrs, | USAFB |
| Bomber | lvl high speed twr passes for | maneuvers. Armed | Report; | | 193flts) | |
| (Martin) | photo coverage made. Test | forces day airshow 2 | Amer Mil | | | |
| | cntr had started taking film | weeks ahead. Desire to | Acft | | | |
| | of activities for range | roll A/C @ that | website | | | |
| | commanders regular mtng. | airshow mentioned by | | | | |
| | On last pass @ `50ft Rwd ail | pilot. Manuf had sent | | | | |
| | roll attempted. LH wing | telegram requesting no | | | | |
| | struck ground just 30 deg | acrobatic maneuvers as | | | | |
| | from level. A/C crashed & | interim restriction. | | | | |
| | destroyed. | Pilot was aware of this. | | | | |
| Canberra B | British built A/C being used | Crew mismanaged fuel | Amer Mil | 2/1/? | 12/21/51 | Centervill |
| Mk2 Bomber | as 2 nd B-57 prototype; while | resulting in too Aft | Acft & | | | е, |
| (British | pulling 4.8Gs LH Otbd wing | CG; details TBD | USAF | | | Maryland |
| Electric - | failed; A/C crashed; details | | Museum | | | - |
| Martin) | TBD | | website | | | |

CREW/ FATALI **LOCATION** AIRCRAFT MANEUVER **SUMMARIZED** REPORT DATE TYPE **ROOT CAUSE** ID/ TIES/ MATL ID **INJURIES** 11/09/51 X-1 #3/B-50 Captive flt aborted due to Ground jettison while USAF 1/0/2***Edwards** *Pilot inadvertent actuation of mated had been done Accident USAFB **Rocket** Joe before. Propellant leaks Research propellant sws by pilot upon Report cannon strapping in. Decision to common on X-1 series. (Bell) & fireland w/ propellant still in X-**Apparently collected** man **1.** After landing propellant midships & unknown injured jettisoning initiated w/ X-1 elec source caused mated to B-50. Small then ignition. 3 personnel larger explosion & fire close to X-1. Pilot in destroyed X-1 & most of Bcockpit conducting 50. jettison procedure. Model 88 #1 1/1/-08/26/51 **Qualitative envelope** Pitch oscillation noted NTIS **Stanstead Prototype** expansion to clear airshow on past flts; elev TE N84-Airport, **Bomber** demo; flt to ~.85Mn @ 10K mds instled; combo of 26678/2/H England (Handley Page) ft scheduled: @ ~500kts & high Q and Mn DM; "low alt" pitch oscillations possible factor (British increased & structural report ID; **RAE struc** breakup occurred note 245, dtd July 1952)

CREW/ **LOCATION** AIRCRAFT MANEUVER **SUMMARIZED** REPORT DATE FATALI TYPE **ROOT CAUSE** ID/ TIES/ MATL ID **INJURIES** X-1 Adv "D" 08/22/51 First attempt at powered Accumulation of fuel **USAF** 1/0/0 **Edwards** (Pete flight. During inflight prep vapors in aft/dorsal Accident AFB Research **Everest**) in bay of mother ship noted rocket plane area of A/C, w/ ignition Report low propellant press. source from elec power (Bell) Aborted launch. Conducted cord or radio believed press & vent test. Upon to be cause. Unknown jettisoning propellant small if press & vent test was explosion & fire occurred. ad-hoc or preplanned. **Obvious from report** X-1 jettisoned from B-50 mother ship as fire that first priority was increased. Pilot jumped to jettison X-1 even if from X-1 to mother ship pilot still in it. seconds before jettison. 5/0/? Chilbolton HP.82 Hermes While on test flt, 3 engines **TBD** Av Sfty 04/10/51 V #1 (Handley failed, emergency GR Up ldg Ntwrk , England on waterlogged field Page) Website XA2D-1 #? Navy prelim eval flt. Two **RH engine believed to** 1/1/-12/19/50 **Edwards** Navy high speed dives w/ high g have failed. Pilot did Accident "Skyshark" **AFB** pullouts made. Vapor from (Douglas) not declutch from Summary aft end of A/C noted by (other) LH engine & Report ground radio car observers. did not feather prop(s) Low pass requested. Upon as had no indic of eng maneuvering for said pass failure. Windmilling A/C struck ground with high props created very high sink rate. No chase A/C. drag & bad airflow over wing.

| | | | - | | LOCATION |
|-------------------------------|---|--|---|--|---|
| <u>MANEUVER</u> | | | | DATE | LOCATION |
| | ROOT CAUSE | <u>ID/</u> | | | |
| | | MATL ID | INJURIES | | |
| | | | | | |
| | Γ | 1 | 1 | 1 | 1 |
| | | X-15 | 13 test | | Edwards |
| | | Diary | pilots | | AFB |
| | | | perish | 1950 | |
| | | | ed | | |
| Essentially scaled version of | TBD | Guiness | ?/?/? | ??/??/50 | TBD, |
| • | | | | | England |
| | | | | | Ligiunu |
| Lost in accident, TDD | | / | | | |
| High ground torri togt to | A/C had bistomy of NC | v | 6/0/6 | 03/15/50 | Edwarda |
| 0 | · · | | 0/0/0 | 03/15/50 | Edwards |
| | v 1 | | | | USAFB |
| A | | - | | | |
| shimmy upon reset followed | changes to shimmy | Amer Mil | | | |
| by NG strut failure; Wing | damper. Specific cause | Acft | | | |
| LE dug in, A/C broke in 2, | not in report. A/C had | website | | | |
| fire resulted, engs continued | seats for 4, 6 on-board. | | | | |
| , 8 | | | | | |
| , , | used. Fire equip did not | | | | |
| - | | | | | |
| | | Airnlane | 1/0/0 | ??/??/4? | Edwards, |
| - | č | - | 1/0/0 | | AFB |
| - | | , | | | AFD |
| - | - / | 0 | | | |
| ⊥ | U 1 | | | | |
| | | P169 | | | |
| • | come tuck, & force | | | | |
| & over-stresed, but landed. | reversal upon | | | | |
| | slowdown. | | | | |
| | MANEUVEREssentially scaled version of Vulcan Bomber. Lost in accident, TBDHigh speed taxi test to determine min NG liftoff speed. Done on lakebed. NG shimmy upon reset followed by NG strut failure; Wing LE dug in, A/C broke in 2, fire resulted, engs continued to run, A/C destroyed. 3 of 4 crew seats pulled loose from mounts.Low altitude speed record attempted. Pilot used nose- up trim to offset nose down tuck near Mn One. Upon decel A/C pitched up rapidly to ~9G. A/C locally buckled | MANEUVERSUMMARIZED ROOT CAUSEEssentially scaled version of Vulcan Bomber. Lost in accident, TBDTBDHigh speed taxi test to determine min NG liftoff speed. Done on lakebed. NG shimmy upon reset followed by NG strut failure; Wing LE dug in, A/C broke in 2, fire resulted, engs continued to run, A/C destroyed. 3 of 4 crew seats pulled loose from mounts.A/C had history of NG shimmy events. Nrthrp had made several field changes to shimmy damper. Specific cause not in report. A/C had seats for 4, 6 on-board.Low altitude speed record attempted. Pilot used nose- up trim to offset nose down tuck near Mn One. Upon decel A/C pitched up rapidly to ~9G. A/C locally buckled & over-stresed, but landed.Summer. Specific cause not in report. A/C had seats for 4, 6 on-board. | MANEUVERSUMMARIZED ROOT CAUSEREPORT ID/ MATL IDMATL IDMATL IDKarlsX-15 DiaryEssentially scaled version of Vulcan Bomber. Lost in accident, TBDTBDGuiness Book of Aircraft; MondeyHigh speed taxi test to determine min NG liftoff speed. Done on lakebed. NG shimmy upon reset followed by NG strut failure; Wing LE dug in, A/C broke in 2, fire resulted, engs continued to run, A/C destroyed. 3 of 4 crew seats pulled loose from mounts.A/C had history of NG shimmy events. Nrthrp had made several field changes to shimmy damper. Specific cause not in report. A/C had seats for 4, 6 on-board.Marer Mil Accident Report: Acft websiteLow altitude speed record attempted. Pilot used nose- up trim to offset nose down tuck near Mn One. Upon decel A/C pitched up rapidly to ~9G. A/C locally buckled & over-stresed, but landed.Summer. Specific cause forces not known. This was second attempt, on first try pilot noted increased force to over come tuck, & force reversal uponAirplane | MANEUVERSUMMARIZED ROOT CAUSEREPORT ID/ MATL ID#CREW/ FATALI TEXALINCE TEXALINCE< | IntroductionsDefinition Definition Defini |

| | | | DEDODT | # CREW/ | DATE | LOCATION |
|-----------------|-----------------------------|--|---------------|-----------------|-----------|------------|
| <u>AIRCRAFT</u> | MANEUVER | SUMMARIZED | <u>REPORT</u> | FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | | | 1 | 1 | | |
| XF-89 #1 | Low altitude, high speed | Horiz stab flutter, | JBaugher | 2/1/? | 02/22/50 | ? Edwards |
| "Scorpion" | USAF officer demo run; | details TBD, external | website | | | AFB |
| (Northrup) | horiz stab peeled off w/ | mass balance horns | | | | |
| ` • ′ | resulting full break-up & | added as part of fix | | | | |
| | crash | ······································ | | | | |
| XB-47 #? | TBD | Ejection seat malf; | Amer Mil | ?/1?/? | ??/??/~49 | TBD |
| Bomber | | details TBD | Acft | •/ 1 •/ • | | IDD |
| | | uctails TDD | website | | | |
| (Boeing) | | | | 0.10.10 | 06/99/40 | |
| XB-45 #? | TBD | TBD | Amer Mil | ?/?/? | 06/??/49 | TBD |
| Bomber | | | Acft | | | |
| | | | website | | | |
| Model 170 | Prod A/C leased back to | Massive structural | AV Sfty | 7/7/0 | 05/06/49 | Portland |
| Freighter 31 | manuf; test flt to measure | failure; TBD | Ntwrk | | | Lighthous |
| (Bristol) | perf; structural breakup | · | Website | | | e, England |
| , | occurred. | | | | | / 8 |
| YB-49 #1 | Upon return from Wash DC | Reported that engine | Amer Mil | ?/0/0 | 02/23/49 | Winslow, |
| Flying Wing | display & Wright Field | oil not serviced at | Acft | | | AZ |
| Bomber | display; Emergency landing | Wright field; Details | website | | | |
| (Northrup) | in AZ due fire in 4 engines | TBD | W COSICC | | | |
| SO-6000N #4 | Crashed, TBD | TBD | Av Hstry | ?/?/? | ??/??/49 | TBD, |
| | CLASIRU, IDD | | ť | •/•/• | •••••• | , |
| "Triton" | | | Website | | | France |
| (SNCASO) | | | | | | |

| | FLIGHT TEST AIRCRAF | | | # CREW/ | 1 | LOCATION |
|----------------|-------------------------------|------------------------|----------------|-----------------|-------------|------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | FATALI | DATE | LUCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| XF-85 #2 | Concept of having fighter | Turbulence due to non- | JBaugher | ?/0/0 | 08/28/48 | Muroc |
| "Goblin" | carried by bomber; upon | aerodynamic geometry | Website | | | AFB |
| (McDonnell) | first attempt at "rehook" | of launch/recovery bay | | | | |
| | collided w/ hook and canopy | | | | | |
| | shattered, emergency | | | | | |
| | landing conducted | | | | | |
| YB-49 #2 | Massive structural failure | Outer wing panels | Amer Mil | 5/5/0 | 06/05/48 | Muroc |
| Flying Wing | following high speed descent | failed; source states | Acft | Glen | | AFB |
| Bomber | from 40000ft | could have been due to | Website | Edwar | | |
| (Northrup) | | exceeding red-line | | ds | | |
| D-558-1 #2 | Operated by NACA @ | J35 engine | USAAF | 1/*1/0 | 05/03/48 | Muroc |
| "Skystreak" | Muroc; During takeoff @ | disintegrated severing | Accident | (How- | | AFB, |
| Research A/C | ~100ft lost control & crashed | fuel & control lines. | Report: | ard | | Calif |
| (Douglas) | | *Crash Helmut & | Test | Tilly) | | |
| | | shoulder straps NOT | Pilots;Hall | U / | | |
| | | used. | ion; p208 | | | |
| XF9F-2 #1 or 2 | Tail section separated | TBD | JBaugher | 1/?/? | ??/??/48 | Pax River, |
| "Panther" | during arrested landing | | website | | | Md |
| (Grumman) | | | | | | |
| Model 118 | Emergency Ldg on dirt | Ran out of fuel | Worlds | ?/0/0 | 11/??/47 | San Diego |
| ConvAirCar | road. Details TBD. Wings | | Worst | | | _ |
| #2 | sheared off, body badly | | A/C; | | | |
| Flying Car | damaged. | | Pg 117; | | | |
| (Convair) | _ | | Bill Yenne | | | |
| <u>"0502"</u> | | | | | | |

| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | # CREW/ | DATE | LOCATION |
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| | | | | FATALI | DAIL | |
| <u>TYPE</u> | | ROOT CAUSE | \underline{ID} | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| XP4M-1 #1 | 10 months into flight test | TBD | Glenn | ?/1/2 | 08/??/47 | TBD |
| "Mercator" | program, main fuel line | | Martin | | | East Coast |
| Mil Flying | burst. Details TBD | | Museum | | | USA |
| Boat | | | Website | | | |
| (Martin) | | | | | | |
| Model 689 | Upon takeoff, RH wingtip | TBD, suspicion related | AV Sfty | 6/4/? | 08/23/47 | Shirfold |
| Tudor 2 | struck trees | to aileron control sys | Ntwrk | | | Farm, |
| (Avro) | | . | Website | | | England |
| (| | | | | | 8 |
| XB-42A #1 | Hard ldg in tail low attitude; | TBD | Amer Mil | ?/0/? | 08/15/47 | Muroc |
| "Mixmaster" | details TBD; resulted in | | Acft | | | AAFB |
| Research A/C | structural damage to tail | | Website | | | |
| XB-45 #? | TBD | TBD | Amer Mil | ?/2/? | ~06/47 | Muroc |
| Bomber (North | | | Acft | | | AAFB |
| Amer) | | | website | | | |
| AM-1 #? | During carrier trails had | TBD | Glenn | ?/?/? | ~06/47 | TBD |
| "Mauler" | entire aft section of A/C | | Martin | | | |
| USN Attack | separate | | Museum | | | |
| (Martin) | - | | Website | | | |
| "High Speed" | High speed dive w/ pullout | Hyd torque meter | Test | 1/0/1 | ??/??/47 | Caldwell, |
| Propeller | to constant alt/target speed | failed spraying hot | Pilots;Hall | Herb | | NJ |
| Testbed (P47) | | fluid over canopy and | ion; p206 | Fisher | | (Curtis- |
| | | cockpit; loss of | | | | Wright |
| | | visibility | | | | home |
| | | ~_~ | | | | field) |
| | | | | | 1 | now, |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|--|--|--|--|--|----------|----------------------|
| N9M #? Flying Wing Research A/C Northrup | crashed during FT, details TBD | "lost due to aileron upfloat (Sears 1987)" | Airplane S & C Abzug & Larabee | X/X/X | ??/??/?? | TBD |
| D.H. 108 "Swallow" (deHavilland) | High speed run below 10k ft | Structural failure due violent pitching oscillation | Test Pilots;Hall ion; p196 | 1/1/- Geoffrey deHavill and | 09/27/46 | Hatfield, England |
| XP-83 #1 Twinjet fighter (Bell) | R&D effort, ramjet slung under each wing; crash following ramjet fire w/ pilot & engineer parachuting | TBD | JBaugher website | 2/0/? | 09/14/46 | TBD, New York |
| C-74 #2 4-Eng Prop Mil Transport "Globemaster" (Douglas) | Crashed during flight test, details TBD. | "elevator fabric bulging between ribs increased trailing edge angle, causing pitch oscillations that broke off wingtips elevators were metal covered after that" | Geocities website; Airplane Stability &Control: Abzug & Larrabee' P65 | x/x/x | 08/??/46 | TBD |

| AIRCRAFT <u>TYPE</u> | MANEUVER | SUMMARIZED ROOT CAUSE | REPORTID/MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|---|---|---|---|--|----------|------------------------|
| XF-11 #1 Hughes (Photorecon) | First flight; RH engine lost prop pitch control; high asym drag | XX | World's Worst Airplanes; p70 | 1/0/1 Howard Hughes | 07/07/46 | Los Angeles |
| Model 491 Viking 1A #1 (Vickers) | During E/O climb test @ ~1000ft w/ RH eng S/D, LH eng failed; Gr Up crash ldg made | TBD, suspicion that fuel inadvertently shutoff | Av Sfty Ntwrk | 4/0/? | 04/23/46 | Effingham , England |
| YP-80A #5 | While being operated by English agency (TBD), crashed attempting dead stick ldg following engine failure | A/C was being used as testbed for prototype version of Rolls-Royce "Nene" engine | JBaugher website | 1/?/? | 11/14/45 | TBD, England |
| XP-79B #1 Jet Flying Wing Rammer/Fight er (Northrup) | First flight; 15min into flight entered spin; pilot bailed out but was struck by wing & chute failed to open | TBD | JBaugher Website; Test Pilots, Hallion, p150; AV Hstry Website | 1/1/0 Harry Crosby | 09/12/45 | Muroc Dry Lake |
| JRM-1 #1 MARS Flying Boat (Martin) | Two weeks into flight test program A/C crashed during landing | TBD | Glenn Martin Museum Website | ?/?/? | ~07/45 | Chesapeak e Bay, MD |

CREW/ FATALI **LOCATION** AIRCRAFT MANEUVER **SUMMARIZED** REPORT DATE TYPE **ROOT CAUSE** ID/ TIES/ **INJURIES** MATL ID 03/20/45 **XP-80A #1** Shallow dive to accelerate to **Turbine wheel** Test 1/0/1 Muroc **Single-Eng Jet** test point speed; Engine disintegrated; sawed **Pilots;Hall** Tony **Dry Lake** Mil Tactical came apart; tail assembly thru fuselage; chronic ion; p177; LeVier (Lockheed) separated failure caused by JBaugher manufacturing process; website impurities settled to bottom of ingots 10/20/44 **YP-80A #3** First flight, TBD **TBD JBaugher** 1/1/0 TBD (Van website Milo Nuys) (Lockheed) Birch Calif am 03/??/44 F.9/40 **TBD TBD** Testing 1/0/1 XX "Meteor" Time: (Gloster) (C.B-S); p172 03/??/44 **F.9/40 TBD TBD** Testing 1/1/0 XX John "Meteor" Time: Crosby (Gloster) (C.B-S); Warren p172 F.9/40 01/04/44 **TBD Engine disintegrated** Testing 1/1/0 XX "Meteor" Time: Doug-(Gloster) (C.B-S); las p171 Davie 12/16/44 **XB-42 #2 TBD:** possible fuel **TBD** Amer Mil ?/0/? **Bolling** or 1945 "Mixmaster" starvation Acft Field; **Bomber Douglas** Wash DC website

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|--|--|---|----------------------------------|--|----------|------------------------|
| XP-77 #2 (Bell) | Inverted spin from immelman maneuver w/ resulting crash | TBD | JBaugher website | 1/0/? | 10/02/44 | Elgin field, Fla |
| XP-72 #2 (P-47 derivative) (Republic) | Takeoff crash | TBD | JBaugher website | 1/?/? | ~07/44 | TBD |
| XP-67 #1 (McDonnell) | Emergency landing w/ engine fire; fire severely damages fuselage | TBD | JBaugher website | 1/0/0 | ~7/44 | Around St Louis, Mo |
| XP-80A #1 (Lockheed) | First Flight; Pitch instability | No ammo in nose; CG computation assumed ammo (i.e. CG way Aft) | Test Pilots;Hall ion; p174 | 1/0/0 | 06/11/44 | Muroc Dry lake |
| NA-98X (B-25 replacement proposal) (North Amer) | TBD test points followed by low speed low alt pass with structural failure | Outer wing panels departed during pass, source states evidence of exceeding red-line on previous points | Amer Mil Acft website | 2/2/0 | 04/24/44 | Mines Field, LA |
| XP-80 #1 (Lockheed) | First Flight; No gear retraction after T/O | Gear Pin left in | Test Pilots;Hall ion; p172 | 1/0/0 | 01/09/44 | Muroc Dry Lake |
| XB-29 #3 Bomber | TBD | TBD | Amer Mil Acft website | ?/?/? | ??/??43 | TBD |
| XP-67 #1 (McDonnell) | High Speed taxi run w/ fire breaking out in both engines | TBD | Amer Mil Acft website | 1/0/0 | 12/08/43 | St Louis, Mo |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ | # CREW/ FATALI TIES/ | DATE | LOCATION |
|--|--|--|----------------------------------|----------------------------|----------|---------------------------------|
| | | | MATL ID | INJURIES | | |
| P-59A Airacomet (Bell) | Max Speed Dive Test; Lost Tail assembly | High Buffeting Loads | Test Pilots;Hall ion; p175 | 1/0/0 | ~12/43 | Buffalo, NY |
| XP-55 #1 "Ascender" (Curtis Wright) | Uncontrolled inverted spin following stall test; pilot bailed out; A/C crashed | TBD (design change incorporated artificial stall warning, one of first) | JBaugher website | 1/0/0 | 11/15/43 | TBD (around St Louis, Mo) |
| XP-56 #1 Flying Wing Fighter (Northrup) | High-speed taxi run w/ LH main wheel tire blow out resulted in A/C somersaulting; total wreck | TBD | JBaugher website | 1/?/? | ~10/43 | Muroc Dry Lake |
| N-9M #2 Flying wing research A/C | On first flight Cockpit canopy blew off after takeoff; emergency landing made | TBD | Amer Mil Acft website | 1/0/0 | 06/24/43 | TBD |
| XB-38 (B-17 w/ Allison Engines) | TBD | Engine fire which could not be extinguished; details TBD | Amer Mil Acft website | ?/?/? | 06/16/43 | TBD |
| XP-63 #2 Kingcobra (Bell) | Cockpit filled w/ smoke, pilot bailed out w/ ensuing A/C crash | Engine blew rod while at altitude | JBaugher website | 1/0/? | 05/25/43 | TBD, New York |
| N-9M #1 Flying Wing Research A/C (Northrup) | TBD | TBD | Amer Mil Acft website | 1/1/0 | 05/19/43 | TBD |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|--|--|---|---|--|----------|-------------------|
| XB-32 #1 Bomber "Dominator" (Consolidated) | After 30 test flights; Crash just after takeoff. (Original dual vertical config) | Flap malfunction; details TBD | Amer Mil Acft & USAF Museum website | 7/1/6 | 05/10/43 | TBD |
| XB-29 #2 Bomber (Boeing) (Ed. – Read this report!) | Co. FT prgm plagued w/ eng probs. Flt for eng ops & climb perf. #1 Eng Fire ntd, CO2 bottle apparently put it out. Fire reappeared & burned wing spar. A/C turned home early in sequence but crashed short of Runway into packing plant. 3 crew jumped prior to impact but perished. Inflt records thrown out prior to impact. | Report surmises that overwing fill caps leaked fuel into wing LE & into nacelle where fire started. Fire spread inbd to #2 & believed inbd into bomb bay. Magnesium valve likely triggered spar fire. Burned thru wing spar; Report recommended several design changes to add fire barriers and ventilation. Hallion implies QC short- coming @ Eng Manufacturer | USAAF Accident Report: Test Pilots; Hallion; p165 | 11/11/- (+19 on ground) (E. Allen) | 02/18/43 | Seattle, Wash. |

CREW/ **LOCATION** AIRCRAFT MANEUVER **SUMMARIZED** REPORT DATE FATALI TYPE **ROOT CAUSE** ID/ TIES/ **INJURIES** MATL ID **XB-29 #2** ??/??/43 **RTO upon first flight takeoff Aileron control cables** Airplane ?/?/? Boeing **Bomber** attempt. Controls reversed **Stability** found crossed Field. (Boeing) &Control. Seattle Abzug & Larrabee' P65 **XP-63 #1 King** Following stuck gear & fuel Fuel burnoff ran into **JBaugher** 1/0/0 01/28/43 **TBD.** New burn off, attempted belly evening, pilot mistook website cobra (Mil York landing, landed in trees w/ runway edge lighting **Tactical**) (Bell) breakup for end lighting **Amer Mil** 01/01/43 XP-49 (Mil Simultaneous failure of 1/0/? **TBD** Muroc Tactical)(P-38 elec & hvd syss Acft **AAFB** deriv) website **XB-32 #1** First flight; control probs **Rudder trim tab** 2?/0/0 09/07/42 North Is Amer Mil after takeoff; necessitated Bomber NAS; San actuating rods; TBD Acft "Dominator" emergency landing website Diego "E" (Consolidated) 08/08/42 **XP-47B #1 Destroyed**, **TBD** 1/?/? **TBD** JBaugher **TBD** "Thunderbolt" website (Republic) 03/26/42 P-47B #5 Prod Portion of tail assembly **TBD** 1/1/0 Amer Mil Long (George A/C broke off in flight A/C Island, NY **Burrell**) "Thunderbolt" Website (Republic)

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|---|--|---|-----------------------------|--|----------|----------|
| XSB2C-1 Prototype "Helldiver" (Curtis) | High speed dive followed by massive structural failure | Wings and tail failed during pullout | Amer Mil Acft website | 1/0/? | 12/21/41 | TBD |

| AIRCRAFT TYPEMANEUVERSUMMARIZED ROOT CAUSEREPORT ID/ MATL ID# CREW/ FATALI TIES/ INJURIESDATHXPB2M-1 #1 MARS Flying BoatDuring initial taxi testing, one wood laminate prop separated. Narrowly missedTBD Had to tow A/C closer to shore so firefightersGlenn Martin Martin?/?/?12/05/41 | |
|---|-----------|
| IYPE ROOT CAUSE ID/ MATL ID THES/ INJURIES XPB2M-1 #1 MARS Flying During initial taxi testing, one wood laminate prop TBD Had to tow A/C closer Glenn Martin ?/?/? 12/05/41 | |
| XPB2M-1 #1 During initial taxi testing, one wood laminate prop TBD Glenn ?/?/? 12/05/41 | |
| MARS FlyingOne wood laminate propHad to tow A/C closerMartin | |
| MARS FlyingOne wood laminate propHad to tow A/C closerMartin | |
| MARS FlyingOne wood laminate propHad to tow A/C closerMartin | Middle |
| | |
| Koat separated. Narrowly missed to shore so tiretighters Wijsejim | River, Md |
| | |
| (Martin)flight engineer. Caused firecould attack fireWebsite | |
| in nacelle | |
| YP-38 #15th flight w/ new added elevMax speed to beTest1/1/-11/04/41 | Glendale, |
| "Lightning"tabs activated at ~30lbs pilotobtained in dives @Pilots;Hall(Ralph | Calif. |
| (Lockheed) force. A/C had accum pilot's discretion. High ion; p185; Vir- | |
| 142hrs in 14mnths as test flexing of stab/elev & JBaugher den) | |
| vehicle. Pilot had conducted wrenching off of Website; | |
| 3 power-off dives at high alt balance weights USAAF | |
| prior to event. Higher speed denoted flutter. Lhkhd Accident | |
| dives conducted OK on believed tab attchmnt Report; | |
| previous flights w/ same failed. After dives pilot P-38 | |
| config w/ buffeting. A/C was was to make "high Online | |
| observed to initiate dive @ speed" low altitude | |
| about 5000ft & then tail pass over Lockheed | |
| parts/assy separated from facility for Army | |
| | |
| | |
| then entered inverted spin. related to employee | |
| Portion of "test instructions" morale. Event may | |
| sheet found in wreckage. have occurred as lead- | |
| in dive to said pass. | |
| Some difference in | |
| later documentation. | |

| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | <u># CREW/</u> | DATE | LOCATION |
|-----------------|--|-------------------------|----------|-------------------------------|----------------------|-------------------|
| TYPE | | ROOT CAUSE | ID/ | <u>FATALI</u> <u>TIES/</u> | 2 | |
| | | | MATL ID | <u>IIES/</u> INJURIES | | |
| | | | | | | |
| | | | | 1 10 11 | | T |
| | TBD | Turbosupercharger | JBaugher | 1/0/1 | 05/14/41 | Long |
| (Grumman) | | explosion, pilot bailed | website | | | Island |
| | | out | | | | Sound, |
| | | | | | | New York |
| | On first flight, emergency | TBD | JBaugher | 1/0/0 | 05/06/41 | TBD, NY |
| | ldg due leakage of eng | | website | | | |
| | exhaust fumes into cockpit | | | | | |
| | "Most lost during testing" | TBD | JBaugher | ?/?/? | 41-42 | TBD, |
| "Airacobra" | | | website | | 08/13/42 08/28/42 | Muroc |
| (Bell) | | | | | | AAFB, CA |
| | 5 th flight; ran out of fuel; | Pilot forgot to switch | JBaugher | 1/0/1 | 11/20/40 | TBD, Calif |
| Prototype) | dead stick ldg w/ substantial | fuel tanks | website | | | |
| (North | damage | | | | | |
| American) | | | | | | |
| XF4U Prottyp | Fifth Flight; emergency ldg | Ran out of fuel; exact | JBaugher | 1/0/0 | 06/??/40 | TBD |
| "Corsair" | on golf course; A/C badly | cause TBD | website | | | |
| (Chance Vought) | damaged but repaired | | | | | |
| XF4U Prottyp | First Flight; elev trim tabs | TBD | JBaugher | 1/0/0 | 05/29/40 | TBD |
| "Corsair" | failed due flutter; emergency | | website | | | |
| (Chance Vought) | ldg | | | | | |
| P-66 prototype | Mid-air collision w/ Sirius | TBD | JBaugher | 1/0/0 | 05/09/40 | Vultee |
| | severed one ldg gear leg; | | website | | | Field |
| | landed w/ little addnl | | | | | (Downey) |
| U | damage | | | | | Calif |
| XP-39B #1 | Destroyed while conducting | TBD | JBaugher | 1/?/? | 02/??/40 | Bolling |
| | TBD | | website | | | Field, |
| (Bell) | | | | | | Wash DC |

| AIRCRAFT TYPE | MANEUVER | SUMMARIZED ROOT CAUSE | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|---|--|---|---|---|----------|---------------------------|
| XP-39B #1 "Airacobra" (Bell) | Belly landing following TBD; damage | TBD | JBaugher website | 1/?/? | 01/06/40 | Wright Field, Ohio |
| XP-37 #? Mil tactical (Curtis) | Functional test flight following test program. First flt by pilot in Model. Had erroneous IAS coupled with engine cooling failure. Emergency ldg reqd head out of canopy as windshield covered w/ glycol | During "refurbishment" by NACA from test program, T in pitot system left open. No functional ground test done. | Geocities Website | 1/0/0 | ??/??/?? | TBD |
| NA-40B (B-25 prototype) North American | "an engine –out test" resulted in crash | "Lost control" - TBD | Amer Mil Acft website | 2/0/2 | 04/11/39 | Wright Field, Ohio |
| Model 307 #1 "Stratoliner" 4-Eng Civil Transport (Boeing) | Original "no dorsal" vert fin instl. S&C demos for KLM customer; slow speed yaw w/ asym power. Entered spinning dive from unk slow speed S&C test point; started pullout resulting in structural failure. | Later publ states cause was "rudder lock" whereby hinge moments reverse at high sideslip angles. On manual controls mech advant can be such pilot cannot overcome. 307 had many aspects same as B-17. Dorsal added to both as result this event. | Vision; Mansfield; p78: Airplane Stability & Control; Abzug & Larrabee, p215 | 11/11/0 (2 nd source says 13 on board) | 03/18/39 | Mount Rainer, Wash. |

| | | | | | 1 | |
|--------------------|---|-------------------------|---------------|--------------------------|----------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | <u>REPORT</u> | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | ID/ | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | 1 | | | | |
| XP-38 #1 | 15 days after 1 st flight, co. | Carb icing during the | JBaugher | 1/0/0 | 02/11/39 | Mitchell |
| (P-38 | attempted transcontinental | prolonged approach | Website; | | | Field, |
| Prototype) | record flight. On final of 3 | caused "loss of power". | WW2 | | | Long |
| "Lightning" | legs A/C lost power on | Further details TBD | Aviation | | | Island, NY |
| (Lockheed) | approach & crashed on golf | | Website | | | Hamstead |
| , | course short of runway. | | | | | Golf |
| | | | | | | Course |
| XP-38 #1 | Upon L/O on first flt had | Flap support rods | P-38 | 1/0/0 | 1/27/39 | March |
| (P-38 | vibr. Landed fast, dragged | failed | Online | 1,0,0 | | Field, |
| Prototype) | tail. (10/04) | Tuneu | Website | | | Calif |
| "Lightning" | | | vv cusite | | | Cam |
| (Lockheed) | | | | | | |
| · / | "domonstration of single | TDD. Franch mil | Amer Mil | ?/1/1? | 01/23/39 | ~Southern |
| A-20 Prototype | "demonstration of single – | TBD; French mil | - | \$/1/1; | 01/23/37 | |
| (Model 7B) | engine handling qualities w/ | personnel onboard. | Acft | | | Calif |
| (Douglas) | co-incident engine failure" | Public furor as many in | website | | | |
| | | US favored neutrality | | | | |
| JU-90 #1 | "lost during flutter | TBD | Book on | X/x/x | 02/06/38 | ?, |
| 4-Eng Civil | testingbroke up in-flight" | | Junkers | | | Germany |
| Transport | | | | | | |
| (Junkers) | | | | | | |
| PB-2A(P-30) | First fighter w/ retractable | TBD | JBaugher | 1/?/? | 05/??/36 | Wright |
| #1 Mil tactical | gear, constant speed prop, & | | website | | | Field, |
| (Consolidated) | successful supercharger. | | | | | Ohio |
| (= | Crashed; TBD | | | | | |
| | | | I | | I | 1 |

CREW/ FATALI **LOCATION** AIRCRAFT MANEUVER **SUMMARIZED** REPORT DATE TYPE **ROOT CAUSE** ID/ TIES/ **INJURIES** MATL ID **Gust Locks Left** 10/30/35 **B-17 Prototype** A/C had recently begun gov **USAAF** 5/2/3 Dayton, (P. Hill (Model 299) eval @ Wright field. Nrml **Engaged**, Checklists Accident Ohio & T/O for climb perf tests. not Std usage @ this (Boeing) **Report:** Les A/C lifted off, climbed in time. Gust lock lever Vision; Tower) very nose high att, fell off on Mansfield; small & not obvious. LH wing @ 150ft & crashed. **Report recommended P57** specific division of duties be defined. Service eval pilots response was creation & std use of checklists. 09/17/35 **YA-19 Takeoff of 2nd flight** Mines **Amer Mil** 2/2/0**TBD** prototype Acft Field, LA (V11) (Vultee) website 05/18/35 Ant-20 #1 After year of flying, **TBD** Worlds 43/43/0 **Russia:** "maxim conducted some TBD demo Worst 1/1/0 **TBD** Gorky" flight. Acompanying small A/C; plane attempted loop around Pg 53; Bill 8-eng it but collided. Both crashed. transport Yenne (Tuplolev)

| | FLIGHT ILST AIKCRAF | | | | | |
|------------------|--------------------------------------|-----------------------|---------------|--------------------------|------------|-----------------|
| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | <u># CREW/</u> FATALI | DATE | LOCATION |
| TYPE | | ROOT CAUSE | <u>ID/</u> | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| DC-1 (DC-2/3 | Customer guarantee test | A/C owned/operated by | Skymaster | X/0/0 | Late 1933, | Winslow, |
| prototype) | flight – fail engine takeoff | Customer TWA. Plan | , page 222; | 21/0/0 | early 1934 | Az |
| Civil | 8 | | | | | AL |
| | from high/hot airport | was to feather prop. | Cunningh | | | |
| Transport | (Winslow, Az) @ max | Contract test copilot | am | | | |
| (Douglas) | weight. A/C sank while gear | (Eddie Allen) shutoff | | | | |
| | being retracted but continued T/O | engine instead. | | | | |
| L-10? #1 | Early in flight test program, | TBD | Designers | X/0/0 | Late Feb | Burbank, |
| "Electra" | LH MLG would not extend | | & Test | | 1934 | Calif. |
| Civil transport | for Indg. A/C diverted to | | Pilots, | | | |
| (Lockheed) | longer runway, fuel used up, | | P53/4; | | | |
| () | wing kept up as long as | | Hallion | | | |
| | possible, min damage | | | | | |
| | resulted | | | | | |
| K-7 #1 | Struc failure and crash | PH tail boom wrenched | Worlds | ?/?/? | 11/21/33 | Russia; |
| 7-eng bomber | | off. | worst | (Sever | | TBD |
| prototype | | | A/C; | alon | | 100 |
| (Kalinin) | | | Pg 52; | Board) | | |
| | | | Bill Yenne | Doaru) | | |
| DC-1 (DC-2/3 | During FT & demonstration | Overcenter mech held | Madcaps, | X/0/0 | Last half | Western |
| prototype) | program, two instances of | by hyd pressure, no | Millionair | Δ/ υ/ υ | 1933 | US |
| Civil | MLG downlock overcenter | mech latch initially. | es & | | | 05 |
| | | Several instances of | | | | |
| Transport | feature failing ("limber | | Mose, | | | |
| (Douglas) | knees") w/ A/C lndng on | limber knees w/o | P67 ; | | | |
| | nacelles. | damage. Said latch | Underwoo | | | |
| | | added as response. | d | | | |

| AIRCRAFT | MANEUVER | SUMMARIZED | REPORT | # CREW/ | DATE | LOCATION |
|--------------------|-------------------------------|-------------------------|------------------|-----------------|----------|----------|
| | MANLOVER | | | FATALI | DATE | |
| <u>TYPE</u> | | ROOT CAUSE | \underline{ID} | TIES/ | | |
| | | | MATL ID | INJURIES | | |
| | | | | | | |
| DC-1 (DC-2/3 | On third flight of A/C, the | Retractable landing | Madcaps, | X/0/0 | 07/0?/33 | Glover |
| prototype) | new flight observer was not | gear new system on | Millionair | | | Field, |
| Civil | told to crank down the | A/C. Duties not clearly | es & | | | Calif. |
| Transport | retractable landing gear. A/c | defined. Checklist | Mose; | | | |
| (Douglas) | made perfect belly landing. | apparently not used. | P67 | | | |
| | | | Underwood | | | |
| DC-1 (DC-2/3 | On first flight, just after | Carburetor floats | Skymaster | 2/0/0 | 07/01/33 | Clover |
| prototype) | liftoff at ~100ft port engine | hinged at rear which | , page 220; | | | Field, |
| Civil | "sputtered". Nosed over | resulted in shutoff at | Cunningh | | | Calif. |
| Transport | engine recovered. Engines | nose up attitudes | am | | | |
| (Douglas) | sputtered each time nose | - | | | | |
| | pulled up. A/C landed safely. | | | | | |
| P-30/A-11 #2 | TBD | TBD | Amer Mil | 1/?/? | 01/2?/33 | TBD |
| prototype Mil | | | Acft | | | |
| tactical | | | website | | | |
| (Consolidated) | | | | | | |
| P-30/A-11 #1 | TBD | TBD | Amer Mil | 1/?/? | 01/13/33 | TBD |
| prototype Mil | | | Acft | | | |
| tactical | | | website | | | |
| (Consolidated) | | | | | | |
| YP-24 #1 | Pilot ordered to bail out | TBD | JBaugher | 1/0/0 | 10/19/31 | TBD |
| (Lockheed) | following ldg gear lever | | website | | | |
| | breaking off, crashed | | | | | |
| BM-1 #1&2 | Both crashed during flight | TBD | Glenn | ?/?/? | Mid 1931 | TBD |
| Dive Bomber | testing, details TBD | | Martin | | | |
| (Martin) | | | Museum | | | |
| | | | Website | | | |

| <u>AIRCRAFT</u> <u>TYPE</u> | MANEUVER | <u>SUMMARIZED</u> <u>ROOT CAUSE</u> | REPORT ID/ MATL ID | # CREW/ FATALI TIES/ INJURIES | DATE | LOCATION |
|--|---|--|---------------------------------------|--|-----------|---------------------------|
| XP-15 #1 (Boeing) | Engine shook out of airframe following prop blade failure | TBD | JBaugher website | 1/?/? | 02/07/31 | Near Seattle, Wash. |
| XP-13 Mil tactical (Thomas Morse) | Caught Fire, Crashed Details TBD | TBD | JBaugher website | ?/?/? | ?/?/30 | TBD |
| Christmas "Bullet" #2 | First Flight T/O | "Flappable" wings wrenched off aircraft | World's Worst Airplanes; p46 | 1/1/0 | ??/??/~20 | East Coast, USA |
| Christmas "Bullet" #1 | First Flight T/O | "Flappable" wings wrenched off aircraft | World's Worst Airplanes; p46 | 1/1/0 | 12/~26/18 | East Coast, USA |