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Frequency and Costs of Transport Airplane Precautionary Emergency Evacuations

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Final Report

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FREQUENCY AND COSTS OF TRANSPORT AIRPLANE PRECAUTIONARY EMERGENCY EVACUATIONS

INTRODUCTION

Rapid and safe evacuation of an airliner cabin in a life-threatening emergency is critical to the safety and survivability of the passengers. Toward this end, the Code of Federal Regulations (CFR, Title 14) contains a number of requirements devoted to slowing the growth of an airplane fire and speeding an emergency evacuation.

Frequently in a survivable airplane accident, a fuel-fed post-crash fire starts that represents a major threat to survivors of the impact. Survivors must escape quickly from the cabin, before the fire makes the environment too toxic to support life. In instances where the crewmembers believe the probability of fire to be high, they commonly initiate an emergency evacuation. Precautionary Emergency Evacuations (PEEvacs) are those evacuations that are ordered by the crew, or sometimes initiated by passengers, because of the perceived threat of fire, although no fire actually develops. As in other emergency evacuations, passengers and crew often suffer injuries; so, had they known that no fire would result, it would have been safer for them to remain on the airplane.

The incident databases maintained by the Federal Aviation Administration (FAA) and by the National Transportation Safety Board (NTSB) reveal relatively little about the frequency and nature of PEEvacs, even though these evacuations occur on airport properties, with the airport Crash-Fire-Rescue (C-F-R) teams responding. PEEvacs are, however, usually documented in records maintained by airport managers, as identified by Hynes (1994), who developed information on a significant number of PEEvacs, using airport records as the primary data source.

The purpose of the current study was to develop additional data about the frequency and nature of precautionary emergency evacuations, as well as information on the resulting injuries and costs of these events. The specific goals of this study were:

 Create a database containing information from virtually every precautionary evacuation of a CFR Parts 121 or 135 air carrier operation in the United States, occurring between January 1988 and December 1996. Use this information to determine the frequency of PEEvacs and the number of passengers and crew involved.

- 2. Compare the number of cases collected in this manner with the number of PEEvacs recorded in the comprehensive databases maintained by the FAA and the NTSB.
- 3. Collect information from liability insurance claims and other legal actions resulting from PEEvacs. Use this information to determine the nature, significance, and extent of injuries resulting from PEEvacs.
- 4. Using related information sources, determine the costs of these incidents.

METHODS

For the purposes of this study, the term *precaution*ary emergency evacuation includes: (a) those incidents in which the emergency escape system was deployed, and (b) those incidents in which the emergency escape system was not deployed, but airline passengers and crew members were forced to conduct an unscheduled deplanement at other than a normal gate location.

Incident Data. Information on the use of emergency escape systems and emergency evacuations was collected from several sources, including the FAA Accident and Incident Data System (AIDS), the NTSB accident database, and the National Aeronautics and Space Administration (NASA) Aviation Safety Reporting System (ASRS). Information suggesting that precautionary evacuations might have occurred was also collected from the FAA Administrator's Daily Bulletin. An historical review of this information was conducted to identify specific airports at which detailed PEEvacs occurred and the approximate dates of those incidents. This information was used to establish the mailing list for a subsequent survey, in which information was obtained from 136 airport managers.

In 1994, Hynes sent 73 US airport managers a survey designed to collect information on precautionary evacuations conducted at their facilities. In 1995, Hynes sent a second survey to the managers of the 40 most active US airports. The results of these surveys were previously reported by Hynes (1994, 1997). As part of the current project, Hynes sent a third survey (see Appendix B) to the managers of 63 airports in late 1996. Those airports included the 50 most active in the US and 13 additional airports that were known from other sources (e.g., media reports) to have had emergency evacuation incidents. Together, they accounted for 85.6% of all CFR Parts 121 and 135 passenger enplanements in 1995.

Appendix C includes a list of the airports, information about which specific survey(s) were sent to specific airports, the number of enplanements during 1995 at those airports, and the resulting US enplanement-based 1995 ranking of the airports. Appendix C also indicates the airports that responded and those that did not.

Each survey required at least 3 mailings of the survey instrument. Telephone contacts were frequently used to confirm the data obtained, to respond to questions from the persons submitting the data, or to determine if the airport management ever intended to respond to the survey request. The response rate was 92.1%.

Injury Data. To quantify the costs of injuries associated with PEEvacs, 8 airlines (included in Appendix D), representing approximately 90% of passenger revenue miles, were surveyed. Additional data were obtained from litigation reports in WESTLAW[®], as of December 31, 1996, and by direct contact with insurance adjusting firms.

RESULTS

Appendix A contains the sources of information used to collect the reported information. In many cases, incidents were confirmed by several different sources. Included is information from 136 different US airports, covering the period from January 1, 1988, through December 31, 1996. However, the analyzed data set only contained data on PEEvacs that occurred through November 1, 1996. This was because of the proximity of December 31, 1996, to the end of the study, a period of time shorter than the delay between the time an incident occurs and the subsequent time at which detailed information about the incident becomes available.

During the 106-month (~ 9 year) period studied, there were 519 PEEvacs (an average of 4.9 per month, or once every 5 to 6 days), involving an estimated 42,835 airline passengers and crew members. This averages almost 58 incidents per year, and involves an average of 4,759 people per year, or about 400 per month. From a yearly perspective, the greatest number of events occurred in 1991, involving over 6,000 people. Note that, in 183 cases (35% of the total), the exact number of passengers and crew was not available. In those instances the number of people involved was estimated (marked by an E in Appendix A) by using the capacity of the aircraft involved and the typical passenger load for that period. However, all incidents were confirmed, and the events listed are actual, not estimates.

Figure 1 shows the number of PEEvacs and the number of passengers and crew involved for each year of the study. There was no apparent trend in either the number of PEEvacs occurring annually or in the number of people involved in each incident. Neither do the data reveal patterns of occurrence related to aircraft type, except that all wide-body PEEvacs resulted in at least 1 injury.

Data Source Reliability. Development of the information in Appendix A relied on all of the referenced data sources. An analysis was made to determine if any one of them could be relied on as a single source for all precautionary evacuations. However, since the information in Appendix A contains incidents in which the emergency escape systems were not deployed, as well as incidents for which information on escape slide deployment was not available, discrepancies exist among the various data sources.

For example, both the FAA and the NTSB collect reports on the use of emergency escape systems. The FAA AIDS database contains information on 282 of the 519 events in Appendix A, or about 54.3% of the incidents, while the NTSB database system contains information on less than 8.5% of the events. When the analysis is restricted to those incidents for which information about emergency escape system deployment is known (227 incidents), the number of incidents recognized by both agencies was considerably higher. The FAA AIDS database was found to contain reports on 107, or 82.3%, of the 130 incidents in which the slide was deployed, while the NTSB database system contains reports on 27, or 20.8%, of the same incidents. Figure 2 shows the reporting status for the FAA AIDS database, while Figure 3 shows the reporting status for the NTSB database system, where information about escape slide deployment is known.

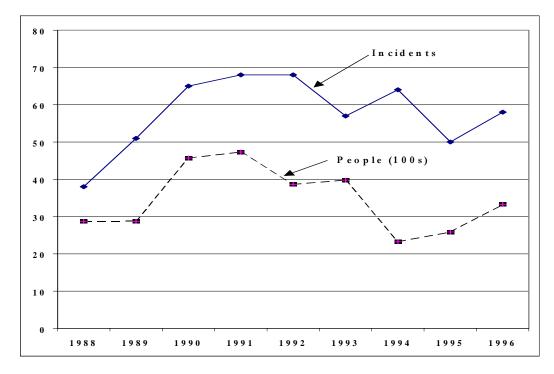


Figure 1. Number of Precautionary Evacuations and Evacuees.

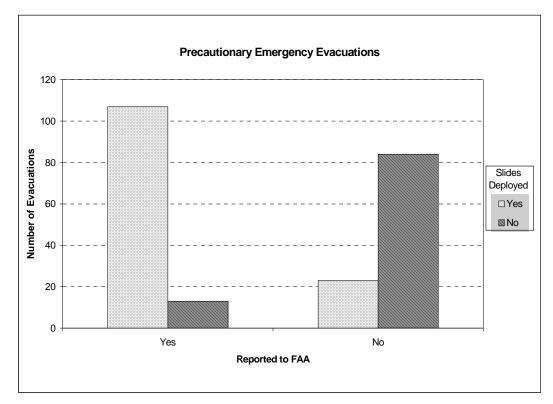


Figure 2. FAA AIDS reporting status when information about slide deployment is known.

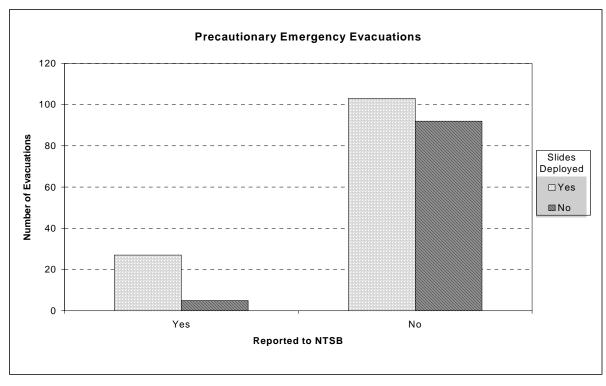


Figure 3. NTSB data system reporting status when information about slide deployment is known.

The NASA ASRS database contains 67, or 12.9%, of the 519 incidents cited in Appendix A. Of the incidents for which escape slide deployment data are available, the ASRS database contains data on 26, or 20%, of the 130 incidents.

News media accounts were identified for 53, or 10.2%, of the 519 incidents in Appendix A, including information on 29, or 22.3%, of those incidents for which escape slide deployment information is known. Litigation data were located for 4.8% of the 519 incidents, including 15.4% of the incidents where escape slide deployment status is known.

Injury Data. The number of persons who were reported as injured, or who claimed to be injured, was 898, or 101 injuries per year for the duration of the study. Of those, 610 passengers were injured while using the emergency escape slides, whereas 77 were injured when not using escape slides. It could not be determined how 211 passengers had been injured. Additional detailed data for the period of 1991 through 1993 allowed a more thorough examination of 250 passenger injury claims. Of these, 185 of the claims had supporting records provided by airlines insurance carriers and claims managers. Demographically, the claimants were comprised of 44.4% males, having a median age of 41 years, and 55.6% females, having a median age of 48 years. For both men and women, 29.8% were 60 years of age, or older.

Cost Data. The recommendation developed in Bulletin APO-90-1 by the Office of Aviation Policy and Plans (FAA, 1990) applies an average cost factor of \$640,000 for a serious injury. The current study used airline and insurance company definitions in which serious injuries are those with losses of \$50,000 or more, substantial injuries as those with losses of \$10,000 to \$49,999, and minor injuries as those with claimed losses under \$10,000. Applying this formula to 31 complete records taken from the 185 injuries analyzed more fully, and extrapolating those results to the 101 average PEEvac-related injuries per annum for the entire study period, produces an estimated annual passenger injury cost of \$8.54 million.

The average actual monetary claim across all injuries was \$551,507, as revealed by airline-supplied data. This amount excludes 2 claims, 1 for \$5.0 million and another for \$10.0 million, which were considered exorbitant and omitted from the analysis.

Administrative costs for minor claims were estimated by the airlines to average \$1,000 per injury claim, rising to \$2,500 for each substantial injury claim. Administrative costs for serious injuries averaged \$25,000, without litigation, and \$75,000 if litigation occurred. A total of 38.8% of the serious claims was litigated. When applied to the 101 average PEEvac-related injuries per annum in this study, administrative costs associated with processing injury claims totaled \$1.83 million per year.

Airline data also indicated that the additional cost of replacing emergency escape systems, combined with the loss of revenue associated with PEEvacrelated maintenance, was \$1.0 million per year.

The total estimated direct costs for the 3-year period were \$11.37 million per year. These costs were borne primarily by airlines. However, additional costs of PEEvacs were borne by the airports and emergency response units; these latter costs were not included.

DISCUSSION

The unique reliance on airport managers as a source of information permitted the collection of more detailed information about more events than would typically be possible. Allowing for airports that were not contacted, and airports that failed to respond to the survey, 56.6% of the PEEvacs identified in Appendix A were confirmed by airport management. This percentage is higher than corresponding percentages for the FAA and NTSB, suggesting that airport managers should be the primary source of PEEvac data. However, airport management cannot be relied upon exclusively to report all precautionary evacuations. In many cases, airport managers do not have easy access to information about emergency evacuations that have taken place on their airports in past years, nor do they possess the more detailed injury and monetary cost data possessed by the airline, insurance, and legal entities. This situation makes better coordination of incident data sources necessary.

The use of litigation databases was used to advantage to identify precautionary evacuations and to collect injury and cost data. Unfortunately, these databases were also of limited value, since litigation associated with emergency evacuations is almost always settled out of court and frequently includes an agreement by all parties not to disclose publicly any information related to the case(s). As a result, such information on passenger injuries and claims is removed from public purview.

The use of the news media as a source of information about precautionary emergency evacuations was similarly of limited value, as only about 10% of the events were found in the various news media databases. This is a reflection of the sensitive public relations nature of emergency evacuations. Airline and airport personnel seek to avoid substantial news media awareness, or other forms of public disclosure, related to emergency evacuation incidents. For example, many airport representatives contacted during this study denied that PEEvacs had even taken place at their airports, although records from the C-F-R units at those same airports contained information about their responses to the PEEvacs. This type of situation makes data collection and information management more complicated.

As the current study makes clear, the frequency of precautionary emergency evacuations has been quite high (4.9 per month or once every 5 to 6 days), despite the low public visibility associated with these incidents. The costs in terms of injuries to air travelers and economic loss to airlines and airports are far from insignificant. The development of preventative and mitigative strategies to address PEEvacs requires much better data than are readily available, illustrating the need for upgraded information management systems and research dedicated to minimizing these events and improving emergency evacuation outcomes, whenever these events must occur.

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- Hynes, M. Management's Role In Aire Carrier Non Crash-Related Emergency Evacuation Events and Preventing Injuries From Them, Jerome Lederer Colloquim, New York, NY, 1997.
- Office of Aviation Policy and Plans, *Treatment of the Value of Life and Injury in Economic Analyses*, FAA-APO-90-1, Federal Aviation Administration, Washington, DC, October 1990.
- WESTLAW® Computer-Assisted Legal Research Service, West Publishing Co., St. Paul, MN.

APPENDIX A

Parts 121 and 135 Precautionary Emergency Evacuations

Data Source Codes:

 $\frac{A = ARSA (NASA) \text{ Reports}}{A1 = 11/19/93 \text{ Report No. } 3223}$ A2 = 04/01/96 Report No. 4412A3 = 12/12/96 Report No. 4704

 $\frac{D = \text{Direct contact with airports}}{D = 1993, 1994 \& 1995 \text{ contacts}}$ $\frac{D3 = 1996 \text{ contacts}}{DN = \text{Not reported by airport}}$ $\frac{DNC = \text{No contact with airport}}{DNR = \text{No response from airport}}$

<u>FAA = FAA DATA</u> F1 = 03/24/93 Report No. P3-03-0206 F2 = 03/10/95 Misc. data at FAA/CAMI F3 = 04/04/96 Report No. PT6-03-053 F4 = 01/28/97 Report No. AFS624/HH

 $\frac{L = \text{Litigation Data}}{L1 = \text{WESTLAW}}$ L2 = Airline data

<u>M = Media Data</u> M = Newspapers M1 = Aviation Safety Week

<u>N = NTSB Reports</u> N1 = 06/24/92 Report N2 = 05/11/93 Report N3 = 12/24/96 Report

Types Of Aircraft - Crew Size And Passenger Loads:

WIDE BODY (Avg. crew 3+10 & 315 PAX) LARGE AIRCRAFT (Avg. crew 2+5 & 156 PAX)

A300	Airbus Industrie	3+8	/250	A320	Airbus Industrie	2+6	/150
A310	Airbus Industrie	2+10	/250	B111	British Aerospace	3+5	/150
A330	Airbus Industrie	2+10	/300	B727	Boeing	3+5	/145
A340	Airbus Industrie	2+10	/325	B737	Boeing	2+3	/130
B747	Boeing	3+10	/400	B757	Boeing	2+6	/185
B767	Boeing	2+9	/250	DC8	Douglas	3+6	/175
B777	Boeing	2+9	/350	DC9	Douglas	2+3	/110
DC10	Douglas	3+10	/325	MD80	McDonnell Douglas	2+4	/155
L1011	Lockheed	3+8	/325	MD88	McDonnell Douglas	2+4	/155
MD11	McDonnell Douglas	2+10	/350	MD90	McDonnell Douglas	2+4	/170

SMALLER AIRCRAFT (Avg. crew 2+1 & 47 PAX)

PAX

PAX

ATP	Bae (England)	60	F70	Fokker (Netherlands)	70
AT42	AIR (France/Italy)	50	F100	Fokker (Netherlands)	100
AT72	AIR (France/Italy)	70	I202	IAI (Israel)	30
B146	BAe (England)	112	JT31	(also 32, England/France	19
B748	BAe (England)	50	JT41	England/France	30
C100	Bombardier (Canada)	50	LTT	(NASA 14,501-30,000 lbs)	50
C200	Bombardier (Canada)	50	M23	Fairchild Metro	19
C212	CASA (Spain)	26	M404	Martin	44
C235	CASA (Spain)	44	MDT	(NASA 30,001-60,000 lbs)	50
C440	Convair	44	N250	IPTN (Indonesia)	65
C580	Convair	58	RJ70	France/England/Italy	70
C600	Convair	60	RJ85	France/England/Italy	90
CL60	Canadair	60	R100	AIR (France/Italy)	100
D228	Dornier (Germany)	19	S226	Swearingen/Fairchild	27
D328	Dornier (Germany)	32	S227	Swearingen/Fairchild	27
DHC6	DeHaviland (Canada)	50	S340	SAAB (Sweden)	35
DHC7	DeHaviland (Canada)	50	S2000	SAAB (Sweden)	55
DHC8	DeHaviland (Canada)	50	S340	Shorts (England)	30
E110	Embraer (Brazil)	19	S360	Shorts (England)	36
E120	Embraer (Brazil)	30	99	Raytheon/Beech	15
E145	Embraer (Brazil)	50	200	Raytheon/Beech	19
F27	Fairchild (Fokker)	40	1900	Raytheon/Beech	19
F28	Fokker (Netherlands)	30	2000	SAAB Sweden)	55
F50	Fokker (Netherlands)	55			

PARTS 121 AND 135 PRECAUTIONARY EMERGENCY EVACUATIONS

DATE	AIR PORT	TYPE A/C			CREW & PAX	-	URY Fotal	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
2/2/1988	FYV	S340	EXA	135	24	Е	3	N/A	"ENG FAIL, FIRE IN ENG, EVAC"	"DNC,F4"
2/3/1988	BNA	DC9	AAL	121	127		2	YES	CARGO FIRE	"D,F2,M,N1"
3/20/1988	PDX	B727	DAL	121	78		0	?	LT MAIN NO XTND	"DN,F1,F2"
3/27/1988	DTW	B727	NWA	. 121	155		24	YES	"APU BACKFIRE, PAX & FA PANIC"	"A1,D3,F1,F2,N2"
3/30/1988	LGA	B737	AAL	121	142		2	YES	BOMB THREAT	"DNR,F2"
4/7/1988	LAS	B737	SWA	121	123		5	YES	"ENGINE FIRE, JETWAY & SLIDES USED"	"D,F1,F2"
4/10/1988	ACY	F27	BEX	121	22		2	N/A	JMPD CHOCKS ON ENG STRT HIT APU	"DN,F1"
4/15/1988	SEA	F27	HRA	135	14		3	N/A	FIRE IN RT ENG	"D,F1"
4/17/1988	CLE	B737	CAL	121	99		4	YES	SMOKE IN CABIN	"DN,F2"
5/11/1988	STL	DC9	TWA	121	46		0	?	"CABIN SMOKE, OIL IN BLEED AIR"	"DN,F1"
5/21/1988	DFW	DC10	AAL	121	254		6	YES	"FLPS LT & WARN, ABORTED TAKEOFF"	"D,F1,F2"
5/24/1988	MSY	B737	TACA	A 121	41		1	?	"ENG FAIL, EMERG LDNG ON LEVEE"	D
6/12/1988	SEA	B727	ALA	121	82		4	?	"WENT OFF RWY, REVERSER PROBLEM"	"DN,F1,F2"
7/10/1988	EWR	B737	CAL	121	102		0	YES	SMOKE IN COCKPIT (LEFT CHUTE)	"DN,F2"
7/14/1988	ACY	B727	GULI				0	NO	"FUEL TRUCK FIRE, A/C STAIRS USED"	"DN,F1"
7/20/1988	ORD	F27	?	135	13		0	N/A	SMOKE IN COCKPIT	D
7/21/1988	ORD	DC9	?	121			0	?	TWO FLAT TIRES	D
7/27/1988	ANC	S227	PNA	135		Е	0	?	OVERHEAT LITE FOR LFT WHEEL WELL	"DNC,F4"
8/8/1988	STL	B727	TWA			_	0	?	"APU SMOKE, PAX START/PANICKED"	"A1,DN,F1,F2"
8/9/1988	STL	S226	AMW			Е	0	N/A	"RT ENG CHIP DETECTOR ON, IN CLIMB"	"DN,F4"
8/10/1988	LIT	B737	UAL	121		Ľ	10	YES	"NR1 ENG FAIL, ABORT TAKEOFF"	"D,F1,F2"
8/13/1988	HTS	DC9	AAA	121		Е	0	?	LT ENG FIRE ENROUTE PIT/LOU	"DNC,F2"
8/16/1988	CLE	S226	BRT	135		E	2	N/A	"PROP GOV LINK SEP ON TO, RAN OFF RWY"	"DN,F4"
8/22/1988	LAS	B737	AAA	121		L	6	?	"RT MAIN GR DR, RT MAIN TIRES"	"DN,F2"
8/27/1988	ORD	B727	TWA				7	YES	NO GEAR	"DN,F2"
9/11/1988	ORD	AT42	?	135			0	N/A	FLAT TIRE	DIN,12
9/12/1988	DEN	DC10	UAL	121			1	YES	"REV NO DEPLOY, MAINTENANCE"	"A1,DN,F1,F2"
9/14/1988	MEM	S340	EXA	121		Е	0	?	SMOKE FROM CABIN FLOOR	"DN,F4"
9/21/1988	DFW	B727	AAL	121		Ľ	7	YES	"LT GR NO XTND, FWD CHUTES"	"DN,F1,F2"
10/1/1988	LAX	LRG	?	121		Е	Ú	?	APU START TORCH PAX START DAY UNKN	"A1,DN"
10/9/1988	IAH	AT42	?	121		Ľ	0	: N/A	NR2 ENG FIRE	"DN,F1"
10/24/1988	DFW	E110	ASE	135		Е	0	N/A	FUMES IN CABIN	"DN,F4"
10/24/1988	DTW	B727	NWA			Ľ	0	NO	"APU EXH FIRE, PAX STARTED EVAC"	"A1,D3,F1,F2"
10/24/1988	MSY	B727 B747	AIB	121			0	?	"BOMB THREAT, NO BOMB"	D
11/1/1988	MSP	LRG	?	121		Е		: NO	"ABORTED TO, ENG FAIL"	"A1,DN"
	MKE		: EXA	121		E	0	?	LOST RT MAIN WHEEL ON TO	"DNC,F4"
11/10/1988 11/16/1988	ORD	JT31 AT42	?	135		Ľ	0	: N/A	ENGINE FIRE	DNC,r4 D
12/29/1988	RIC	MD80		135			0	YES	BOMB THREAT	"DN,F2"
			AAL			Е				"DN,F4"
1/17/1989 1/20/1989	LAX	S227 C440	SKA APA	135		Ľ	1 5	N/A	GAS TRUCK COLL WITH A/C	
	7V1 ORD			121				N/A ?	"RT ENG PWR LOSS, LT ENG SHUT DOWN"	"DN,F1"
1/20/1989		B737	?	121			0		ENGINE FELL OFF ON TO	D "ALDNE?"
1/22/1989	JFK	B737	AAA	121		Б	0	YES	"APU FIRE, LOOK AT 01/01/89" "Suspicious PKG, day unkn"	"A1,DN,F2"
2/1/1989	PVD	LRG	?	121		E	U	?	,	"A1,DN"
2/5/1989	ORD	S360	?	135			0	N/A	LEFT MAIN GEAR PROBLEM	D "DNE1"
2/21/1989	IAH	DC9	DAL	121		г	0	?	NR1 ENG FAILURE	"DN,F1"
2/21/1989	SBN	S227	COM			E	0	N/A	SMOKE IN CABIN	"DNC,F4"
2/22/1989	ORD	B727	?	121			0	?	MAIN GEAR PROB	D "DNC F1"
3/10/1989	RSW	B111	BNF	121			0	N/A	FUEL ODOR IN CABIN	"DNC,F1"
3/14/1989	GVT	B727	DAL	121		-	7	YES	"FIRE WARN NR2, NO FIRE"	"D,F1"
4/1/1989	FAY	B737	AAA	121		E	3	YES	"SMOKE IN CABIN, DAY UNKN"	"A1,D"
4/3/1989	LAX	B767	PDT	121		_	5	YES	UNAUTH ACC BOMB?	"DN,F1"
4/23/1989	FAY	B727	PDT	121	99	E	2	?	"SMOKE, APU"	"DN,F2"

D	DATE	AIR PORT	TYPE A/C			CREW & PAX	-	URY Total	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
5/	/5/1989	BGM	1900	PAC	121	10		0	N/A	FIRE WARNING	"DN,F1"
5/	/16/1989	ORD	B737	?	121	104		0	?	BLOWN TIRE	D
5/	/18/1989	MWA	S226	AMW	135	9	Е	0	N/A	"LT PROP CTRL STRIPPED, RAN OFF RWY"	"DNC,F4"
5/	/24/1989	ORD	DC10	?	121	202	Е	0	?	RAN OFF ON GRASS	D
5/	/28/1989	DEN	MD88	CAL	121	50		7	YES	RT L/G FAIL	"DN,F1,F2"
6/	/4/1989	LAX	C212	UALX	135	10		0	N/A	FIRE WARNING LIGHT	D
6	/18/1989	FLL	B737	PDT	121	102		6	?	"APU FIRE WARN, NO FIRE"	"A1,DN,F1,F2"
6/	/26/1989	BWI	JT31	JSI	135	14	Е	0	N/A	"SPARKS/SMOKE PANEL BEHIND PLT, EVAC"	"DN,F4"
71	/2/1989	ILM	B737	PDT	121	82	Е	0	YES	RT MAIN TIRE	"DN,F2"
71	/5/1989	ORD	S360	?	135	34		0	N/A	FLAT TIRE	D
71	/9/1989	ORD	B747	?	121	218		0	?	FLAT TIRE	D
8/	/2/1989	GSO	B737	PDT	121	106		0	YES	GR JAM UP	"DN,F1,F2"
8/	/6/1989	SFO	B757	NWA	121	184		2	YES	FIRE WARN	"D,F2"
8/	/17/1989	CLE	E120	BRT	135	14	Е	0	N/A	SMOKE IN CABIN	"DN,F4"
9/	/5/1989	MCI	S226	AMW	135	9	Е	0	N/A	LANDED GEAR UP	"DN,F4"
	/12/1989	ORD	DC9	AAL	121			2	YES	"HYD SYS FAIL, LEFT RWY"	"DN,F1"
	/29/1989	SFO	B747	UAL	121			0	NO	LOST WHEEL ON LANDING	D
	0/1/1989	PHL	MDT	?	121		Е	U	?	"APU FIRE WARN, DAY UNKN"	"A1,DN"
	0/1/1989	LGA	LRG	?	121		E	Ū	?	"APU TORCH, DAY UNKN"	"A1,DNR"
	0/7/1989	ORD	DC9	AAL	121		_	0	YES	SMOKE LT GR	"A1,DN,F1,F2"
	0/14/1989	SLC	B727	DAL	121			2	?	"O2 SERV FIRE, PREBOARDING"	"D,M,N1"
	0/15/1989	MEM	S340	EXA	121			0	N/A	"SMOKE IN CABIN, BROKEN FREON LINE"	"A1,DN,F1"
	0/17/1989	08V	DC9	NWA				0	YES	"OVERSHOT RWY, WRONG APT"	"DN,F1,F2"
	0/19/1989	FYV	C580	SAP	121			0	N/A	SMOKE	"DNC,F1"
	0/20/1989	PHX	B727	DAL	121		Е	1	YES	"FIRE, HYD LINE"	"DN,F2"
	0/27/1989	RAP	B737	UAL	121		L	0	YES	"SMOKE IN CABIN, NO FIRE"	"DN,F1,F2"
	0/31/1989	SEA	B727	NWA				0	YES	"APU FIRE, SLIDE MALF, PAX STARTED"	"A1,DN,F1"
	1/3/1989	MEI	S340	EXA	121			0	N/A	SMOKE IN COCKPIT	"DNC,F1"
	1/15/1989	PAH	JT31	EXA	121		Е	0	N/A	"REAR CARGO SMOKE LIGHT,EVAC"	"DNC,F4"
	1/20/1989	BOS	A300	AAL	133		Ľ	6	?	"SMOKE IND LT, NO FIRE "	"D,F1,M"
					121				: ?	"APU SMOKE, NO FIRE ONLY 18 EVAC"	
	1/27/1989	LAX	B727	XP1 EAL				3	: YES	· ·	D "DNLE2 M1"
	1/29/1989	ATL	B727	EAL	121		Б	0		RT MAIN GEAR	"DN,F2,M1"
	2/1/1989	CVG	S227	COM			E	0	N/A	"SMOKE IN CABIN, EVAC"	"DN,F4" "DN F2"
	2/2/1989	MIA	B727	EAL	121		Б	0	YES	SMOKE SMELL (CHUTE & STAIRS)	"DN,F2"
	2/29/1989	MCI	S226	AMW			E	0	N/A	LANDED W/ GEAR UP	"DN,F4"
	2/30/1989	MSL	JT31	EXA	135		E	0	N/A	"FT ENG FIRE WARN, EVAC"	"DNC,F4"
	2/30/1989	TUS	B737	AWA	121		Б	10	YES	"FIRE IN WHL WELL, ELEC/HYD FIRE"	"D3,F1,F2,M1"
	/1/1990	TYS	LRG	?	121		E	U	NO	"TIRE, AIR STAIR,DAY UNKN"	"A1,DN"
	/2/1990	BWI	DC10	AAL	121			10	YES	SMOKE IN COCKPT	"D,F2,M1"
	/10/1990	BMI	S360	SIM	121			0	N/A	SMOKE WARNING CARGO BAY	"DNC,F1"
	/28/1990	TPA	B727	DAL	121			1	YES	FIRE	"A1,D,F2"
	/31/1990	ORD	B767	AAA	121			1	YES	SMOKE IN COCKPT	"DN,F2"
	/31/1990	SDF	DC9	EAL	121			2	YES	"LT MG TIRE FIRE, TOWER ADVISED"	"D,F1,F2,M1"
	/18/1990	LAX	L1011	TWA	121			5	YES	FIRE LT #2ENG	"A1,D,F2"
	/10/1990	BWI	B737	AAA	121			U	YES	"PT ELEC FAIL, SMOKE"	"DN,F1,F2"
	/13/1990	ATL	DC9	EAL	121			0	YES	LOSS HYD PRESS	"DN,F1,F2"
	/17/1990	ICT	B737	CAL	121			2	?	"RT ENG FAIL, ABORTED TAKE OFF"	"A1,DNR,F1,F2,M1"
	/17/1990	JFK	AT42	CMD				0	N/A	SMOKE & FUMES IN CABIN	"DN,F1"
3/	/26/1990	BOS	L1011	TWA	121	175		6	YES	"FIRE N2&3 ENG, ABORTED TAKEOFF"	"A1,DN,F1,F2,M"
4/	/2/1990	FSM	JT31	EXA	135		E	0	N/A	"LFT ENG FIRE WARN, EVAC"	"DNC,F4"
4/	/2/1990	ORD	B727	?	121	99	Е	0	?	FLAT TIRE	D
4/	/9/1990	ORD	B146	?	135	100		0	N/A	FLAT TIRE	D
4/	/10/1990	ORD	DC10	?	121	151		0	?	FLAT TIRE	D
4/	/15/1990	PIT	DC9	AAA	121	59		0	YES	"CABIN SMOKE, NO FIRE"	"DN,F1,F2"

DATE	AIR PORT	TYPE A/C			CREW & PAX		URY Total	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
4/20/1990	ORD	B727	?	121	99	Е	0	?	FLAT TIRE	D
4/20/1990	MSP	JT31	EXA	135	14	Е	0	N/A	NO NOSE GEAR DOWN LIGHT	"DN,F4"
5/8/1990	FAT	S227	SKA	135	9	Е	1	N/A	"CP/P TURN OFF FUEL,FIRE ON RESTART"	"DNC,F4"
5/20/1990	ORD	B737	?	121	81		0	?	TIRE/HYD FAIL	D
5/24/1990	ATL	DC9	EAL	121	66		3	?	"SMOKE IN CABIN, APU FUEL LINE"	"DN,F1"
6/3/1990	STL	MD80	TWA	. 121	144		0	?	WHL BRNG PROB	D
6/7/1990	ATL	DC9	EAL	121	96		0	YES	"BLOWN TIRE, LOOSE SLIDE"	"DN,F1,F2,M1"
6/8/1990	STL	ATP	AMW	7 135	39	Е	0	N/A	HYD FAILURE	D
6/11/1990	CVG	B727	DAL	121			0	YES	SMOKE	"DN,F2"
6/15/1990	DAY	E110	COM	1 135	14	Е	0	N/A	"RT ENG OIL PRESS, FUEL LEAK, EMERG LDG"	"DN,F4"
6/21/1990	ATL	DC9	EAL	121		Е	0	?	RT MAIN LNDG GEAR FAILURE ON TO	"DN,M1"
6/21/1990	CHS	B727	AAA	121			4	YES	"ENG FIRE WARN N2, NO FIRE"	"DNR,F1,F2,M1"
7/1/1990	ORD	S360	?	135			0	N/A	FLAT TIRE	D
7/1/1990	DEN	WDB	?	121		Е	Ŭ	NO	"TO ABORTED,ENG EXPL W/VIBE & YAW"	"A1,DN"
7/4/1990	DEN	A300	CAL	121		E	0	?	ABORTED TO	"DN,M1"
7/6/1990	ORD	B146	?	135		Ľ	0	N/A	FLAT TIRE	D
7/13/1990	ORD	B727	?	121			0	?	"LT MAIN GEAR, DOOR FAILURE"	D
7/13/1990	ORD	B727 B146	?	135			0	N/A	FLAT TIRE	D
7/21/1990	ORD	S360	?	135			0	N/A	FLAT LEFT TIRE	D
7/22/1990	ISO	B737	: AAA	135			2	YES	"NOSE GR FAILED, ABORTED TAKE OFF"	"D,F1"
7/25/1990	ORD	S360	?	121			2 0	N/A	FLAT TIRE	D,F1 D
		DHC7								D
7/29/1990	JFK		PAE	135		Б	0	N/A	NOSE GEAR COLLAPSE	
8/1/1990	LAX	B747	UAL	121		E	U	?	"PAX INJURIES, DATE UNKN"	"DN,M"
8/2/1990	MEM	B727	FDX	121		E	2	YES	APU FIRE	"DN,F1"
8/12/1990	BZN	B727	CAL	121		F	2	YES	"LOST PWR ENG, NR3 FIRE LIGHT"	"D,F1,F2"
8/21/1990	BWI	JT31	JSI	135		E	0	N/A	"SMOKE IN CABIN, EVAC"	"DN,F4"
8/21/1990	LAX	B737	UAL	121		-	0	?	RT MAIN N XTEND	"D,F1,M1"
8/23/1990	RIC	F27	AWS			E	0	N/A	SMOKE IN COCKPIT	D
8/27/1990	EWR	A300	CAL	121			26	YES	"ENGINE FIRE, L1 DOOR MALFUNCTION"	"A1,DN,F1,F2"
8/27/1990	LAX	B747	UAL	121		_	25	YES	NOSE NO XTEND	"D,F1,F2"
8/30/1990	MDW	D228	MWA			E	0	N/A	"OVERHEAD PANEL SMOKING, EVAC"	"DN,F4"
8/31/1990	EWR	DC9	AAA	121			1	YES	"PWR LOST N1 ENG, ABORT"	"A1,DN,F1,F2"
9/9/1990	ELK	DC9	AAL	121			0	YES	"POSS BOMB THRT, NO BOMB"	"DN,F1,F2"
9/9/1990	LGA	B727	TWA				4	YES	"APU TORCHING, PAX STARTED"	"DNR,F2,N2"
9/15/1990	GTF	B727	NWA				0	?	"ENG FIRE WARN, NO FIRE"	"DN,F1,F2"
9/19/1990	DEN	B737	UAL	121			2	?	A/C OVERHEATED	"A1,DN,F1"
9/28/1990	DTW	B727	NWA				6	YES		"A1,D3,F1,F2,M1,N2"
10/11/1990	ORD	B727	?	121			0	?	NOSE GEAR PROB	D
10/15/1990	STL	DC9	TWA				0	YES	HI TMP LT TAIL	"DN,F1,F2"
10/16/1990	DFW	B727	DAL				2	YES	"PWR LOSS N2 ENG, ABRTD TO"	"A1,DN,F1,F2"
10/18/1990	SMF	1900	SSA	135		E	1	N/A	"ENG EXH STACK FIRE, EVAC"	"DNR,F4"
10/26/1990	DCA	DC9	NWA			E	U	?	"SMOKE IN CKPT, ELEC SMOKE"	"DN,F1"
10/30/1990	FAT	S227	WWA	A 135	9	E	0	N/A	FIRE WARN RT ENG	"DNC,F4"
11/2/1990	PIT	DC9	AAA	121	27		0	?	RT HYD SYS LOST	"DN,F1"
11/5/1990	ORD	S360	?	135	30		0	N/A	FLAT TIRE	D
11/24/1990	ORD	S360	?	135	25	Е	0	N/A	"FLAT TIRE, LEFT MAIN"	D
12/5/1990	DTW	B727	NWA	121	75		2	NO	"FIRE RT WHEEL & APU, USED JETWAY"	"A1,DN,F1,F2"
12/26/1990	CAE	MD88	DAL	121	100		2	YES	FIRE NR2 ON START UP	"A1,D,F1,F2"
1/1/1991	ORD	S360	?	135	9		0	N/A	FLAT TIRE	D
1/3/1991	DSM	B727	AAL	121	104		3	YES	SMOKE IN CABIN	"D,F1,F2,L2"
1/6/1991	ORD	S360	?	135	25	Е	0	N/A	FLAT NOSE TIRE	D
1/7/1991	MCI	B737	UAL	121	36		1	YES	"A/C OFF RWY, ICE ON TAKE OFF"	"DN,F1,F2,L2"
1/17/1991	SFO	JT32	WSA	121	14	E	0	N/A	CARGO FIRE WARN LIGHT	"DN,F1"
1/18/1991	ORD	S360	?	135	33		0	N/A	FLAT TIRE	D

DATE	AIR PORT	TYPE A/C			CREW & PAX	-	URY 'otal	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
1/21/1991	MSP	B727	NWA	. 121	. 44		0	YES	"ENG. FIRE, STAIRS & 1L CHUTE"	"DN,F2"
1/21/1991	ORD	S360	?	135	5 5		0	N/A	FLAT LEFT MAIN TIRE	D
1/24/1991	ORD	AT42	?	135	5 21		0	N/A	RIGHT MAIN GEAR PROBLEM	D
1/27/1991	ORD	ATP	?	135	30		0	N/A	SMOKE IN COCKPIT	D
1/31/1991	ORD	S360	?	135	20		0	N/A	FLAT LEFT MAIN TIRE	D
1/31/1991	FLL	B727	AAA	121	86		5	YES	"ENGINE FIRE, NO FIRE"	"D,F1,F2"
2/1/1991	GSO	DC9	AAA	121	. 37		0	YES	FIRE BAG CPTMNT	"DN,F1"
2/3/1991	LAX	B727	DAL	121	137		0	?	"APU FLAME, NO FIRE"	"DN,F1"
2/3/1991	SFO	B737	UAL	121	113		0	YES	NO NOSE STEER	"D,F1"
2/13/1991	SFO	B747	UAL	121	298		0	?	"BOMB THREAT, NO BOMB"	"DN,F2"
3/6/1991	DEN	B727	AAA	121	114		0	YES	APU FIRE	"DN,F1,F2"
3/9/1991	PIT	F28	AAA	135	68	Е	0	N/A	LEFT LAV SMOKE DET	"DN,F4"
3/12/1991	PBI	E110	COM	135	5 8		0	N/A	FLAT TIRE	D
3/17/1991	ICT	B737	CAL	121	137		2	?	RT ENG FAILURE	"DNR,F1"
3/17/1991	DFW	DC9	AAL	121	114		3	?	FUEL ODOR CBN	"DN,F1,F2"
4/5/1991	DEN	AT42	BRT	121	. 17		0	N/A	"LOST HYD SYS,SMOKE NR2 ENG"	"DN,F1"
4/9/1991	SEA	B737	UAL	121	33		0	YES	FIRE LT ENG	"DN,F2"
4/9/1991	DCA	DC9	NWA	. 121	104		0	?	BLOWN TIRES	"DN,F1,F2"
4/17/1991	ORD	B727	?	121	106		0	?	BLOWN TIRES	D
5/4/1991	EWR	B146	CAN	121	. 84		0	?	BLEW TIRES	"D,F2"
5/5/1991	ATL	MD88	DAL	121			30	YES	"COLL FIRE, STRUCK BY VEHICLE"	"D,F1,M1,N3,L2"
5/12/1991	BOS	DC9	CAL	121			2	?	"HOT BRAKES, MAIN RT GEAR"	D
6/12/1991	DEC	JT31	JS8	135		Е	0	N/A	"RT ENG EGT PROBLEM, EVAC"	"DNC,F4"
6/14/1991	STL	B747	NWA			_	0	NO	"FUEL TRUCK FIRE, EVAC THRU JETWAY"	D
6/18/1991	JFK	B747	RAM				0	NO	"BRK RT GEAR, STAIRS & MOBILE LOUNGE"	D
7/1/1991	MCI	B727	UAL	121			0	NO	"OFF RWY @ T/O, A/C STAIRS USED EVAC"	D
7/1/1991	DEN	LRG	?	121		Е	Ū	?	BLEW TIRE ON TO	"A1,DN"
7/1/1991	BUF	LRG	?	121		Ē	U	?	"FIRE # 1 ENG, DATE UNKN"	"A1,DNR"
7/1/1991	DFW	LRG	?	121		Ē	U	?	"LOUD BANG, TO ABORTED, DATE UNKN"	"A1,DN"
7/13/1991	LAX	DC10	AAL	121		_	12	YES	"ENG FIRE WARN, NO FIRE"	"D,F1,F2,M,M1"
7/17/1991	PIA	AT42	TST	121			0	N/A	ENG FAIL & FIRE	"DNC,F1,M1,N3"
7/26/1991	CVG	DC9	AAL	121			2	YES	"SMOKE AFT SECT, NO FIRE"	"A1,DN,F1,F2,L2"
7/28/1991	SFO	DC10	AAL	121			6	YES	"ENG FIRE WARN, NO FIRE"	"D,F1,L2,M"
8/9/1991	SLC	B737	DAL	121			2	YES	"CABIN SMOKE, ELEC SMOKE"	"D,F1,F2,L2"
8/12/1991	STL	JT32	TST	135		Е	0	?	HYD PRESS SUPPLY PIPE FAILED	"DN,F4"
8/21/1991	SBP	JT32	WWA			E	0	N/A	"BAG POD SMOKE WARN LGT,EVAC"	"DNC,F4"
8/22/1991	SEA	B747	NWA			L	13	YES	"ENG FIRE #4, #5L SLIDE INOP"	"D,F1,F2"
8/26/1991	LYH	DHC8	HNA				0	N/A	NR1 FIRE WARN LIGHT	"DNC,F1"
9/1/1991	MDW	DC9	MWA			Е	U	NO	"LT ENG FIRE, USED FRONT DOOR & STAIR"	"A1,DN,F1"
9/1/1991	DTW	LRG	?	121		E	U	?	"APU FLASH, PAX STARTED DAY UNKN"	"A1,DN"
9/7/1991	ORD	B747	?	121		L	U	NO	HAZARDOUS MATERIALS SPILL	D
9/12/1991	MSP	S227	MSA	135		Е	0	N/A	"SMOKE IN CABIN, EVAC"	"DN,F4"
9/12/1991	CVG	S227	COM			E	0	N/A	SMOKE IN CABIN	"DN,F4"
9/14/1991	MKG	3227 AT42	SIM	121		Ľ	2	N/A	SMOKE IN CABIN	"DNC,F1,M1,N3"
9/14/1991 9/20/1991	DEN	B727	CAL	121			2	NO	"STUCK GEAR, REAR STAIRS"	"DN,F2"
										DN,F2 D
9/23/1991	ORD	S360	?	135			0	N/A	FLAT TIRE SMOKE (STAIRS & CHUTES)	
9/28/1991	BOS	MD80	CAL	121			2	YES		"A1,DN,F2,M1,N3" "DN,F1"
10/3/1991	DFW	DC9	AAL	121			0	3	"ODOR IN CABIN, ELECTRICAL"	
10/4/1991	STL	MD80	CAL	121		F	0	?	"TAILCONE SEPRATE, A/C TOWED"	D "DN E4"
10/8/1991	CVG	E120	COM			E	0	N/A	"ELEC SMOKE ODOR,EVAC"	"DN,F4"
10/16/1991	EWR	B737	AAL	121			8	;	"GRND COLLISION, WITH CAL"	"D,L2,M1" "D M1"
10/16/1991	EWR	MD80	CAL	121			19	?	"GRND COLLISION, WITH AAL"	"D,M1"
10/24/1991	ORD	ATP	?	135		F	0	N/A	FIRE WARNING LIGHT	D
10/31/1991	?	MD11	?	121	199	E	U	YES	CALIF/MCDD @ CERT TEST-TWICE	М

IMM PARA IMM PARA	DATE	AIR PORT	TYPE A/C	AIR- F. LINE PA				URY Total	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
International Internat	11/10/1991	STL	B727	TWA	121	99	Е	3	?	"APU TORCH, PAX PANIC"	"DN,F2"
IDENTIFY IDENTIFY VALUE 2 2 0 2 PROME TREAT, NO BOME* "DENTIFY "DENTIFY 12/11991 DKW WER R.72 CAL 121 103 1 2 "APU TORCH, DAX STARTED" "ALDNE" 12/11991 DKK B727 SKM 121 5 0 NO ACRAN OFF TWO NIO D3 12/11991 DKK B727 SKM 121 4 0 NO ACRAN OFF TWO NIO D3 11/11992 DKK TTE 2 10 K U NO "SUCK IN SNOW ON TWY "ALDNE" 11/11992 DKK TT K 121 16 U NO "DENCE MANING, ALSNOW "ALDNE" 11/11992 DKA LT 123 13 U NO NACE MANING, ALSNOW "ALDNE" 11/11992 DKA MEC AAN 153 9 U NA CACLET KWY ON LOA TDELMI"" 11/11992 D	11/14/1991	HNL	DC9	HAL	121	67	Е	0	?	FLAMES & SMOKE LEFT GEAR AREA	"DN,F4"
121/199 DFW WDB ? 121 123 12 13 14 15 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16 16	11/18/1991	CMX	F27	MSA	121	18		0	N/A	"LT ENG FIRE, TO ABORTED"	"DNC,F1"
122/1991 VAR 872 CAL 121 153 1 ? ?APU TORCLE MAX STARTED" CALDN.P2" 1221/1991 RNA T732 RSA T32 RSA TA RSA TAT RSA TAT RSA TAT RSA	11/21/1991	LAX	B737	SWA	121	62		0	?	"BOMB THREAT, NO BOMB"	"DN,F1"
12/21/1991 OK B/37 SWA 121 55 16 N A/C RAN OFF TWY ON TO D3 12/21/1991 B/K 172 PKS 121 12 13 14 12 12 12 12 12 12 14 12 14	12/1/1991	DFW	WDB	?	121	202	Е	U	?	"FUEL LEAK,LANDED AT ALTERNATE"	"A1,DN"
1211/1929 INA IF32 FGS 135 14 E 0 N/A "CARCO POD SMOKE PET LIGHT_EVAC" "DNC,P4" 1/11/92 IFX IT32 FGS 135 I E U N/A STUCK IN SNOW ON TWY "AZDN" 1/11/92 INI ITT ? 121 U P "SMOKE IN CABIN, A COCKPTI, EVAC" "AZDN" 1/11/92 MIA ITT </td ? 121 U P "SMOKE IN CABIN, A COCKPTI, EVAC" "AZDN" 1/11/92 WIN HIG ? 121 U P "N/A STURF WARNING, ASINE, DE AURINN' "AZDN" 1/11/1992 WIN HIG AAA 131 I 2 ? "HARD IDG, WIND SHEAR A/CSPIIT "D,FI,HIT" 1/11/1992 KIN HIA AAA 131 I I ? N/A SMORE IN CABIN, EXPLANCEMENT WING" "D,FI,HIT" 1/11/1992 KIN HIA IAA IA IA <iaa< td=""> IA<iaa< td=""> IA<iaa< td=""></iaa<></iaa<></iaa<>	12/2/1991	EWR	B727	CAL	121	143		1	?	"APU TORCH, PAX STARTED"	"A1,DN,F2"
I/III992 ITTW INT ? I.21 19 P U NA STUCK IN SNOW ON TWY 'ALDN" I/II1992 HN I.TT ? 121 NO P 'SMOKE IN CABIN.& COCKPIT.EVAC 'ALDN" I/I1992 SIM H.LT ? 121 NO 'E 'U ? 'T.T FIRE WARING, FASEL DAV UNNN' 'ALDN" I/I1992 SIM H.G H.NA 121 'S U NO SUBOS OFF UNT WAR 'ALDN" 'ALDN" I/I19192 E.M MCO ALA 121 'S U NO 'SMOKE IN CABIN.GE FIRE TWAR EXACE MERE DOORS' 'D.F.I.M"' I/I19192 E.M D.CO ALA 121 'S U NO 'SMOKE IN CABIN.CHTWAR CARE ACS PLIT 'D.F.I.M"' I/I19192 C.GA ALA 121 'AL 'S 'N 'SMOKE IN CABIN.CHTWAR CARE ACS PLIT 'D.R.I.F.' I/I19192 C.GA MA 121 'AL 'S 'SMOKE IN CABIN.CHTWAR CARE ACS	12/3/1991	OAK	B737	SWA	121	53		0	NO	A/C RAN OFF TWY ON TO	D3
I/III992 ITTW INT ? I.21 19 P U NA STUCK IN SNOW ON TWY 'ALDN" I/II1992 HN I.TT ? 121 NO P 'SMOKE IN CABIN.& COCKPIT.EVAC 'ALDN" I/I1992 SIM H.LT ? 121 NO 'E 'U ? 'T.T FIRE WARING, FASEL DAV UNNN' 'ALDN" I/I1992 SIM H.G H.NA 121 'S U NO SUBOS OFF UNT WAR 'ALDN" 'ALDN" I/I19192 E.M MCO ALA 121 'S U NO 'SMOKE IN CABIN.GE FIRE TWAR EXACE MERE DOORS' 'D.F.I.M"' I/I19192 E.M D.CO ALA 121 'S U NO 'SMOKE IN CABIN.CHTWAR CARE ACS PLIT 'D.F.I.M"' I/I19192 C.GA ALA 121 'AL 'S 'N 'SMOKE IN CABIN.CHTWAR CARE ACS PLIT 'D.R.I.F.' I/I19192 C.GA MA 121 'AL 'S 'SMOKE IN CABIN.CHTWAR CARE ACS	12/21/1991	BNA	JT32	FGS	135	14	Е	0	N/A	"CARGO POD SMOKE DET LIGHT, EVAC"	"DN,F4"
11/1/1992 ONT LIT ? 121 100 E U ? *SMOKE IN CABIN, LI ENG SHUTDOWN" *ALDN" 11/11/92 MIA LIT ? 121 100 E U ? TLT FIRE WARNING, FALSE, DAY UNNN" *ALDN" 11/12/1992 EWI DHCS HAA 13 0 NA SUNG SUFF CT TWY *ALDN" 11/12/1992 ELM DCO AAA 121 41 2 ? THARD LDC, WIND SHEAR, DAVEC SUFT "D-LAT" 210(1992 ELM DCO AAA 121 44 E 0 NO SMOKE PAX DAVIC SUFT "D-LAT" "D-LAT" 2126/1992 DTW DCO NAM 121 144 E 0 ? "SMOKE IN CABIN, NO FRE" "ALDN, FLT" 2126/1992 DTW DCO NAM 121 144 E 0 ? "BLOW THRES, THRE FR MAIN GEAR "ALDN, FLT" 31/1992 ORD DCI ? 121 80 0 ? "BLOW THRES, THRE FR MAIN GEAR "DALDN, FT" 320/1992 </td <td>1/1/1992</td> <td>DTW</td> <td>SMT</td> <td>?</td> <td>121</td> <td>19</td> <td>Е</td> <td>U</td> <td>N/A</td> <td></td> <td>"A2,DN"</td>	1/1/1992	DTW	SMT	?	121	19	Е	U	N/A		"A2,DN"
I/I/1992 MIA I/T ? I/I I/I YALON" YALON" YALON" I/I/1992 SVR MIG ? I/I SVR MIG ? I/I I/I/1992 SVR MIG ? I/I SVR MIG PICA MAT AAA I/I NA PERINGE FIRE, PACKAC EVACE MERGE DOORS "D.F1" I/I/I/1992 SFO B727 UAL I/I I/I SVR NA REND IDG, WIND SHEARA/C SPILT" "D.F2" 2/10/1992 SFO B727 UAL I/I I/I SVR I/I SVR TD.FX "D.F2" 2/21/1992 GR AA3 V/I I/I I/I SVR I/I SVR I/I SVR YALONF, I/I YALONF, I/I 2/21/1992 OR DC0 V/I I/I I/I S/I I/I YR SUDOKI NTRIS, ITHER RT MAIN GEAR "D.MIT" 3/1/1992 OR DC1 Y I/I I/I YR YR YALONF, I'I/I YALONF, I'I/I 3/1/1992 OR DT0 XR XR I/I YR YR YALONF, I'I/I YALONF, I'I/I 3/1/1992 ORD DT1 </td <td>1/1/1992</td> <td>HSV</td> <td>JT32</td> <td>FGS</td> <td>135</td> <td>14</td> <td>Е</td> <td>0</td> <td>N/A</td> <td>"SMOKE IN CABIN & COCKPIT,EVAC"</td> <td>"DNC,F4"</td>	1/1/1992	HSV	JT32	FGS	135	14	Е	0	N/A	"SMOKE IN CABIN & COCKPIT,EVAC"	"DNC,F4"
I/I/1992 SYR MLG ? 121 50 F U NO SLDES OFF ICY TWY 'A2,DN'' I/I/1992 EO MA IAA 15 0 NA 'ENGINE FIRE, PAX EVAC EMERG DOORS' D.FI' I/I/1992 EA MAX 155 4 2 ? "HARD LOC, WIND SHEARA/C'SPLIT" 'D.FI'A1'' 2/101992 EX TTI JSI 155 4 2 ? "HARD LOC, WIND SHEARA/C'SPLIT" 'D.FI'A1'' 2/20192 EX TTI JSI 155 4 4 YE 'SMOKE IN CABIN, NO FIRE'' 'ALDNR-L2'' 2/20192 DTW DC9 NWA 121 45 4 YE 'SMOKE IN CABIN, NO FIRE'' 'ALDNR-L2'' 3/1/192 ORD C10 ? 121 92 0 ? 'ALDWI FIRE WAXNO FIRE'' 'ALDNF'' 3/1/1920 ORD C10 ? 121 92 0 NA 'SMOKE IN COKNT, OH IN ELA' # INA'' 'D.S.FI'' <td>1/1/1992</td> <td>ONT</td> <td>LTT</td> <td>?</td> <td>121</td> <td>100</td> <td>Е</td> <td>U</td> <td>?</td> <td>"SMOKE IN CABIN, LT ENG SHUTDOWN"</td> <td>"A2,DN"</td>	1/1/1992	ONT	LTT	?	121	100	Е	U	?	"SMOKE IN CABIN, LT ENG SHUTDOWN"	"A2,DN"
I/I/1992 SYR MLG ? 121 50 F U NO SLDES OFF ICY TWY 'A2,DN'' I/I/1992 EO MA IAA 15 0 NA 'ENGINE FIRE, PAX EVAC EMERG DOORS' D.FI' I/I/1992 EA MAX 155 4 2 ? "HARD LOC, WIND SHEARA/C'SPLIT" 'D.FI'A1'' 2/101992 EX TTI JSI 155 4 2 ? "HARD LOC, WIND SHEARA/C'SPLIT" 'D.FI'A1'' 2/20192 EX TTI JSI 155 4 4 YE 'SMOKE IN CABIN, NO FIRE'' 'ALDNR-L2'' 2/20192 DTW DC9 NWA 121 45 4 YE 'SMOKE IN CABIN, NO FIRE'' 'ALDNR-L2'' 3/1/192 ORD C10 ? 121 92 0 ? 'ALDWI FIRE WAXNO FIRE'' 'ALDNF'' 3/1/1920 ORD C10 ? 121 92 0 NA 'SMOKE IN COKNT, OH IN ELA' # INA'' 'D.S.FI'' <td>1/1/1992</td> <td>MIA</td> <td>LTT</td> <td>?</td> <td>121</td> <td>100</td> <td>Е</td> <td>U</td> <td>?</td> <td>"LT FIRE WARNING, FALSE, DAY UNKN"</td> <td>"A2,DN"</td>	1/1/1992	MIA	LTT	?	121	100	Е	U	?	"LT FIRE WARNING, FALSE, DAY UNKN"	"A2,DN"
1/12/1992 IWI DHGN HAN 121 33 0 N/A *ENGINE FIRE, PAX EVAC EMERG DOORS "D.F1" 1/13/1992 ICA METL AAA 121 135 9 0 N/A RAN OFF RWY D. 2/10/1992 SFO S72 VAL 121 155 0 N/A ACA PARD LOC, WIND SHEAR.A/C SPLT D.F.P" 2/10/1992 ICA A30 N/M 121 144 V N/A ACLEFT RWY ON LDING "DACLAR' 2/20/1992 ICA A30 N/M 121 45 1 YES SMOKE IN CABIN, NO FIRE" "ALDNR', FLP2" 3/11/992 ORD DC10 ? 121 45 0 ? "ALDW'N THES, THREE RT MAIN GEAR" "ALDN, FL' 3/11/992 ORD AT7 DAL 121 68 0 ? "ALDW'N TOLE, ST FALL "ALDN, FL' 3/11/992 ORD AT7 DAL 121 68 0 ? "ALDW'N TOLE, ST FALL "ALDN, FL' 3/21/992 ORD AT7 DAL 121 70 N/A "SDOE NOTO'CO'CO'CO'NOUCO'NO			MLG			50	Е				
I/13/1992 DCA METL AAAX 135 9 0 N/A RAN OFF RWY D 1/18/192 ELM DC3 AAA 121 41 2 2 TARD LOG, WIND SHEAR-AC SPLIT' "D.F.IM1" 2/16/192 EKS F0 B72' ULL 121 55 0 NO NOKE, PAY PANIC EXT WING'' "D.F.P" 2/26/192 LEX J131 JS1 135 14 E 0 NO AC/LEFT RWY ON LDNG "D.C.F.P" 2/26/192 DTW DC3 NWA 121 45 1 YES "DOON IN CAIN CHUTES & JETWAY "A.J.D.N.F.L.P" 3/1/192 DTW DCB P.1 121 68 0 ? "APU FIRE WARN, NO FIRE" "AJ.D.N.F.L.P" 3/1/1920 ORD DAD AT AWS 155 22 0 NA<" SMOKE IN COCKTT, OL LEX # I ENC"			DHC8		121	33			N/A	"ENGINE FIRE, PAX EVAC EMERG DOORS"	
I/18/1992 ELM DC9 AAA 121 41 2 ? * HARD LDG, WIND SHEAR-AC SPLT" "D.F.P.MI" 21061992 SFO B727 U.L 121 55 0 N.O "SMOKE, PAX PANCIC EXT WINC" "D.F.F.4" 222/1992 IGA A320 NWA 121 45 VE SMOKE IN CABIN, NO FIRE" "ALDNR, FL?2" 222/1992 IGW DC9 NWA 121 45 VE SMOKE IN CABIN, NO FIRE" "ALDNR, FL?2" 3/11/1992 ORD DC10 ? 121 420 E VE SECSYS FAL "ALDNR, FL?2" 3/11/1992 ORD DC10 ? 121 62 0 N.A<											
2101092SFOSFOUAL12155SMOKE, PAX PANIC EXIT WING""D.F.2"2161092LENJT31SI1514E0NAALC LEFT RWY ON LDNG"D.N.C.FA"2221092DTWDCONWA121451YES"SMOKE IN CABIN, NO FIRE""ALD.N.F.J.2"273(192)DTWWDB?12120VYES"SMOKE IN CABIN, NO FIRE""ALD.N.F.J.2"37(192)DTWBCD?12120VYES"ALD.N.F.J.2""ALD.N.F.J.2"37(192)DTWBT37DAL12168V0?"AUC NET NETS, TIREE RT MAIN GEAR""D.N."37(1912)ORDDCI0?1213540?"AUC NET NUTCH, NICL, REAK #1 ENG""D.N.C.F4"37(2)192MLUJT31ST313532V"AC OF RWY, STUCK IN NUTC""D.N.F.F237(2)192MCIMDSAL12120V"AC OF RWY, STUCK IN AUD NUTC""D.N.F.F237(2)192MCIMDSAL12120V"AC OF RWY, STUCK IN AUD NUTC""D.N.F.F237(2)192MCIMDSAL12120V"AC OF RWY, STUCK IN AUD NUTC""D.N.F.F2"37(2)192MCIMDSAL12175VNO"SMOKE COCKTJ, JETWA, SANK IN MUD"D.N.F.F2"37(2)192MCIMDSNA1214VNNA"STOKE COCKTJ,											"D.F1.M1"
216/1992LEXJT31JSIJSIJSJ4FNAAC LEFT RWY ON LDNGDNC,F4"222/1992LGAA320NWA121J3-4YES"SMOKE IN CABIN, KO FIR""AL,DNR,F1,P2"31/1992PITWDB?121202P'''SDOR IN CABIN, CHUTES & JET WAY"AL,DNR,F1,P2"31/1992ORDDC10?121120P'''''''AL,DNR,F131/1992ORDATPAUX13532'0?'''<											
222/192 LGA A320 NWA 121 134 4 YES 'SMOKE IN CABIN, NO FIRE' 'AL,DNR,FL,E2'' 226/192 DTW DO NWA 121 42 I YES ODORIN CABIN, OLTERS, THREE & JETWAY "AL,DNR,FL,E2'' 3/1/192 ORD DC10 ? 121 189 0 ? "BLOWN TIRES, THREE RT MAIN GEAR" "D,II'' 3/1/1922 ORD DC10 ? 121 189 0 ? "AU FIRE WARN, NO FIRE' "AL,DNR,'' 3/1/1922 ORD RTM TS3 53 2 0 NA "SMOKE IN COCKPIT, OIL LEAK #I ENG" "D,FI,F21" 3/20/192 MCD DC10 ? 121 76 0 NO "AC BKD OFP AVMNT,USED A/C STAIRS" D,FI,F2,12" 3/22/1920 MCI MB88 DAL 121 76 0 NO "AC BKD OFP AVMNT,USED A/C STAIRS" D,FI,F2,12" 3/22/1929 MCI MB88 DAL 121 76 0 NA							F.				
226/192 DTW DC9 NWA 121 45 1 YES ODOR IN CABIN CHUTES & JETWAY "ALDN,F1,E2" 3/1192 PIT WDB ? 121 80 ? "BLOWN TRES, THREE TH MAIN GEAR" "D,N,F1" 3/14/192 DFW B737 DAL 121 68 0 ? "MUT TRES, THREE TH MAIN GEAR" "D,N,F1" 3/14/192 DFW B737 DAL 121 68 0 N/A "SMOKE LIPHT OIL LEAK #1 ENC" "D,F1" 3/20/192 ORD DC10 ? 121 23 0 N/A "SMOKE LIPHT OIL LEAK #1 ENC" "D,F1" 3/21/192 ORD DC10 ? 121 70 0 N/A "SMOKE COLEPT AVMTULED ACTATARS" D 3/22/192 RCG MAB ALL 121 77 9 ? "MACKE DER ON LDNG, ENG FLAMES" "D,F1" 4/13/192 KCG B747 UAL 121 75 0 N/A "STMOKE OLE NA DUDUCT" DN,F1" </td <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>Ľ</td> <td></td> <td></td> <td></td> <td></td>			-	-			Ľ				
3/1/1992 PIT WDB ? 121 202 E U ? ELEC SYS FAIL "AILDN" 3/3/1992 ORD DC10 ? 121 189 0 ? "BUOWN TIRES, THAER ET MAIN GEAR" "DMI" 3/1/1992 ORD ATP AWS 135 32 0 N/A "SMOKE IN COCKPIT, OIL LEAK #1 ENC" "D,F1" 3/2/1/1992 ORD ATP AWS 135 32 0 N/A "SMOKE IN COCKPIT, OIL LEAK #1 ENC" "D,F1,F2,L2" 3/2/1/1992 OKD DC10 ? 121 29 0 N/A "ACO FR WAY, STUCK IN MUD" D D,F1,F2,L2" 3/2/1/1992 CVG MD80 AAL 121 76 0 NO "SMOKE COCKPIT, OIL PAW ATTARIN" "ALD,F2" 3/2/1/192 CVG MD80 AAL 121 76 0 NO "SMOKE COCKPIT, PICWAY & REAR STAIRS" "A2,D,F2" 4/12/1992 SNO B777 DAL 121 77 9 ? "SMOKE COCKPIT, PICWAY & REAR STAIRS" "A2,D,F2" 4/15/1992											
3/3/1992 ORD DC10 ? 121 189 0 ? "BLOWN TIRES, THREE RT MAIN GEAR" "D,M1" 3/14/192 DFW 8737 DAL 121 68 0 ? "APU FIRE WARN, NO FIRE" "ALDN,F1" 3/19/192 ORD ATP AWS 135 32 0 N/A "SMOKE INCOCKPIT, OLL LEAK #1 ENG" "D,F1" 3/2/1/192 ORD DC10 ? 121 230 0 ? "ACO FF RWS, TOCK IN MUD" D,F1,F2,L2" 3/2/1/192 ORD DC10 ? 121 70 0 NO "AC BIN SMOKE, APU" D,F1,F2,L2" 3/2/1/192 RCG MAB DAL 121 70 0 NO "AC BIN SMOKE, OCKPT, JETWAY & REAR STAIRS" "A2,DN,F2" 3/2/1/192 SCO B747 UAL 121 377 9 ? "SMOKE COCKPT, JETWAY & REAR STAIRS" "A2,DN,F2" 4/13/192 KEO B747 UAL 121 377 7 ? FIRE NAL COCK DEER ON LDDG, ENG FLAMES' DNC,F1" 4/14/192 MEK S360							F				
J1/4/192 DFW B737 DAL 121 68 0 ? "APU FIRE WARN, NO FIRE" "A1,DN,FI" J1/9192 ORD ATP AWS 135 32 0 N/A "SMOKE IN COCKT, OIL LEAK # ENG" "D,FI" J2/0192 ORD DC10 ? 135 14 E 0 N/A "SMOKE IN COCKT, OIL LEAK # ENG" "D,FI,F2,L2" J2/21/92 OKD MD80 AL 121 29 3 YES "CABIN SMOKE, APU" "D,FI,F2,L2" J2/21/92 NG MD80 AL 121 39 E 0 N/A "CABIN SMOKE, APU" "DNF,F" J2/21/92 SFO B747 UAL 121 37 P 0 N/A "SMOKE, OIL IN APU DUCI" "DNF,F" 4/1/1992 ARO JT31 JSI 135 4 E 0 N/A "STRUCK DERO NIDNG, ENG FLAMES "DNC,F" 4/1/1992 ORD DHC8 ? 135 4 E 0 N/A "STRUCK DERO NIDNG, ENG FLAMES "DN,F,I" 4/1/5/192							L				
3/19/1992 ORD ATP AWS 135 32 0 N/A "SMOKE IN COCKPIT, OIL LEAK #1 ENG" "D,F1" 3/20/1992 MLU JT31 EXA 135 14 E 0 N/A "POD SMOKE INFT ON IN FLT, EVAC" "DNC,F4" 3/21/1992 OCG MD88 DAL 121 230 0 ?E "A/C OFF RW, STUCK IN MUD" D,F1,F2,L2" 3/28/1992 MCI MD80 AAL 121 29 0 NO "A/C OFF RW, STUCK IN MUD" D,F1,F2,L2" 3/28/1992 MCI MD80 AAL 121 37 9 E 0 NO "SMOKE, OIL IN AVD DUCI" "DN,F1" 4/12/1992 AFO JT31 JSI 153 34 E 0 N/A "STRUCK DEER ON LD, ENG FLAMES" "DN,F1" 4/14/1992 MEM S340 NWAX 135 6 0 N/A "EFT TWY, SANK IN MUD" "DN,F1" 4/15/1992 DRD DALS 121 145 7 ? FIRE NR 2 & SENGINES TMAEL INING" "DN,F1" 4/15/1											
3/20/192 MLU JT31 EXA 155 14 E 0 N/A "POD SMOKE LIFHT ON IN FLT, EVAC" "DNC,F4" 3/21/192 ORD DC10 ? 121 230 0 ? "A/C OFF RAVN, STUCK IN MUD" D 3/22/192 OKG MD80 AL 121 29 3 YES "CABIN SMOKE APU" "D), F, F, Z, L 3/22/192 BOS B727 DAL 121 397 9 ? "SMOKE COCKPT, JETWAY & REAR STAIRS" A2,DN,F2" 4/12/192 SFO B747 UAL 121 377 9 ? "SMOKE COCKPT, JETWAY & REAR STAIRS" A2,DN,F2" 4/11/192 XEM SA40 NVA 135 14 E 0 N/A "STUCK DEER ON LIN APU DUCI" "DN,F1" 4/15/192 ORD DHC8 ? 135 34 E 0 N/A "LER ON AIRCRAFT, BRAKE LINING" D) P) 4/15/192 DRQ SA60 SIM 121 26 0 N/A "LER ON AIRCRAFT, BRAKE LINING" D) P)											
3/21/1992 ORD DC10 ? 121 230 0 ? "A/C OFF RWY, STUCK IN MUD" D 3/22/1992 CVG MD88 DAL 121 29 3 YES "CABIN SMOKE, APU" "D,F,F2,L2" 3/28/1992 MCI MD80 AAL 121 76 0 NO "A/C BKO FP AVMNT, USED A/C STAIRS" "D,F,F" 3/29/1992 SRO B747 UAL 121 99 E 0 NO "SMOKE COCKPT, JETWAY & REAR STAIRS" "A2,DN,F2" 4/12/1992 ACO JT31 JSI 135 14 E 0 N/A "STRUCK DERON LDNG, ENG FLAMES" "DN,F1" 4/15/1992 ACO DT30 JSI 135 6 0 N/A "ELEC NA AIRCRAFT, BRAKE LINING" D D 4/15/1992 CRO DAC SIM 121 26 0 N/A "ELEC NA INCRAFT, BRAKE LINING" DN,F1" 4/16/1992 JFK LI011 DAL 121 142 9 YES SEG FIRE NIX 1GA 04/01/92 "A1,DNR,F2" 4/11/1992 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>F</td><td></td><td></td><td></td><td></td></td<>							F				
3/22/1992 CVG MD88 DAL 121 29 3 YES "CABIN SMOKE, APU" "D.F1,F2,L2" 3/28/1992 MCI MD80 AAL 121 76 0 NO "A/C BKD OFF PAVMAT, USED A/C STAIRS" D 3/29/192 BOS BT7 DAL 121 99 E 0 NO "SMOKE COLIT APU DUCT" "D.N.F.F2,L2" 4/12/1992 BOS BT7 DAL 121 37 4 E 0 NA "STMOKE COLIT APU DUCT" "DAN,F1" 4/13/192 AEM S340 NWA 135 14 E 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DNC,F4" 4/15/1992 ORD DHC8 ? 135 34 E 0 N/A "EIRE CN AIRCRAFT, BRAKE LINING" D DNC,F1" 4/15/1992 ORD DHC8 ? 135 34 E 0 N/A "IERE CN AIRCRAFT, BRAKE LINING" DNC,F1" 4/16/1992 JFGK IA101 DAL 121 26 0 N/A "IERE CN AIRCRAFT, BRAKE LINING" <th< td=""><td></td><td></td><td>-</td><td></td><td></td><td></td><td>E</td><td></td><td></td><td></td><td></td></th<>			-				E				
3/28/1992 MCI MD80 AAL 121 76 0 NO "A/C BKD OFF PAVMNT, USED A/C STARS" D 3/29/1992 BOS B727 DAL 121 97 9 ? "SMOKE COCKPT, JETWAY & REAR STAIRS" "A2,DN,F2" 4/12/1992 SFO B747 UAL 121 377 9 ? "SMOKE, OL IN APU DUCT" "DN,F1" 4/13/1992 SFO B747 UAL 121 377 9 ? "SMOKE, OL IN APU DUCT" "DN,F1" 4/14/1992 MEM S340 NWAX 135 64 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DN,F1" 4/15/1992 ORD DHC8 ? 135 34 E 0 N/A "LEFT TWY, SANK IN MUD" "DN,F1,P" 4/15/1992 DRQ S360 SIM 121 175 7 ? FIRE NR 1/GA OA/12/20 "ND,F4" 4/12/1992 IFK L1011 DAL 121 142 9 VES ENG FIRE NR 1/GA OA/12/20'S" "ALIDNR,F2" 4/12/1992 IFA B727 A											
3/29/1992 BOS B727 DAL 121 99 E 0 NO "SMOKE COCKPIT, JETWAY & REAR STAIRS" "A2,DN,F2" 4/12/1992 SFO B747 UAL 121 377 9 ? "SMOKE, OIL IN APU DUCT" "DN,F4" 4/13/1992 AZO JT31 JSI 135 14 E 0 N/A "STRUC DEER ON LDG, ENG FLAMES" "DNC,F4" 4/15/1992 ORD DHC8 ? 135 34 E 0 N/A "LEFT TWY, SANK IN MUD" "DNC,F1" 4/15/1992 ORD DHC8 ? 135 34 E 0 N/A "LEFT TWY, SANK IN MUD" "DNC,F1" 4/16/1992 JFK L101 DAL 121 175 7 ? FIRE NR 2 & 3 ENGINES "MAIRINTAKE" "DN,F4" 4/12/1992 CKG S227 COM 135 9 E 0 N/A "LOT PIERSK,FLAMES FRM AIR INTAKE" "DN,F4" 4/21/1992 CKG B77 AAA 121 14 2 9 YES "HYD FAIL,FA A04/22/93" "D											
4/12/1992 SFO B747 UAL 121 377 9 ? "SMOKE, OIL IN A"U DUCT" "DN,F1" 4/13/1992 AZO JT31 JSI 135 14 E 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DNC,F4" 4/14/1992 MEM S340 NWAX 135 6 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DNC,F4" 4/15/1992 ORD DHC8 ? 135 34 E 0 N/A "ELEFT TWY, SANK IN MUD" DNC,F1" 4/16/1992 JFK L1011 DAL 121 175 7 ? FIRE N2 & 3 ENGINES "DN,F1,L2" 4/18/1992 CVG S227 COM 135 9 E 0 N/A "LOST OIL PRESS,FLAMES FRM AIR INTAKE" "DN,F1,2" 4/12/1992 IFA B727 AAL 121 44 0 YES "HTG FIRE NA 4/22/93" "D,F1,F2,L2" 5/7/1992 CIC B146 BEX 121 142 9 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,ML2" 5/13/1992							Б				
4/13/1992 AZO JT31 JSI 135 14 E 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DNC,F4" 4/14/1992 MEM S340 NWAX 135 6 0 N/A BLOWN TIRE "A2,D" 4/15/1992 ORD DHC8 ? 135 34 E 0 N/A "FIRE ON AIRCRAFT, BRAKE LINING" D 4/15/1992 DBQ S360 SIM 121 26 0 N/A "FIEF TWY, SANK IN MUD" "DNC,F1" 4/16/1992 JFK L011 DAL 121 167 7 ? FIEF TWY, SANK IN MUD" "DN,F1,Z" 4/12/1992 JFK L011 DAL 121 44 0 YES ENG FIRE NR1 ? LGA 04/01/92 "A1,DNR,F2" 4/22/1992 TPA B77 AAL 121 44 0 N/A "ENG FIRE NR1 ? LGA 04/01/92 "D,F1,F2,L2" 5/19/1992 CLT S360 CCA 121 42 9 YES "MOKE IN CABIN, TAKE OFF ABORTED" "D,F2,M1,L2" 5/13/1992 KIC B146							E			-	
4/14/1992 MEM S340 NWAX 135 6 0 N/A BLOWN TIRE "A2,D" 4/15/1992 ORD DHC8 ? 135 34 E 0 N/A "FIRE ON AIRCRAFT, BRAKE LINING" D 4/15/1992 DBQ S360 SIM 121 26 0 N/A "LEFT TWY, SANK IN MUD" "DNC,F1" 4/16/1992 JFK L1011 DAL 121 175 7 ? FIRE NR2 & 3 ENGINES "DN,F4" 4/18/1992 CVG S227 COM 135 9 E 0 N/A "LEFT TWY, SANK IN MUD" "DN,F4" 4/12/1992 IGA B727 AAA 121 44 0 YES "HYD FAIL FAA 04/22/93" "D,F1,E1.2" 5/7/1992 TPA B727 AAL 121 142 9 YES "HYD FAIL FAA 04/22/93" "D,F1,E1.2" 5/8/1992 RIC B146 BEX 121 26 1 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,M1,L2" 5/13/1992 LAX B767 DAL							Б				
4/15/1992 ORD DHC8 ? 135 34 E 0 N/A 'FIRE ON AIRCRAFT, BRAKE LINING" D 4/15/1992 DBQ S360 SIM 121 26 0 N/A 'LEFT TWY, SANK IN MUD" 'DNC,F1' 4/16/1992 JFK L1011 DAL 121 175 7 ? FIRE NR2 & 3 ENGINES 'DN,F1,L2'' 4/18/1992 CVG S227 COM 135 9 E 0 YLS ENG FIRE NR1 ! I.GA 04/01/92 'A1,DNR,F2'' 4/21/1992 IGA B727 AAL 121 142 9 YES 'ENG FIRE NR1 ! I.GA 04/01/92 'A1,DNR,F2'' 4/21/1992 TPA B727 AAL 121 142 9 'D N/A 'ENG FIRE NR1 ! I.GA 04/01/92 'A1,DNR,F2'' 5/7/1992 CIC S360 CCA 121 142 'D 'NA 'ENG FIRE NR1 ! I.GA 04/02/93" 'D,F1,F2,L2'' 5/7/1992 RIC B166 BEX 121 26 'I 'E'''''''''''''''''''''''''''''''''''			-				E				
4/15/1992 DBQ S360 SIM 121 26 0 N/A "LEFT TWY, SANK IN MUD" "DNC,F1" 4/16/1992 JFK L1011 DAL 121 175 7 ? FIRE NR2 & 3 ENGINES "DNC,F1" 4/18/1992 CVG S227 COM 135 9 E 0 N/A "LOST OIL PRESS,FLAMES FRM AIR INTAKE" "DN,F4" 4/21/1992 LGA B727 AAA 121 44 0 YES ENG FIRE NR1 ? LGA 04/01/92 "A1,DNR,F2" 4/22/1992 TPA B727 AAA 121 142 9 YES "HYD FAIL,FAA 04/22/93" "D,F1,F2,L2" 5/19/192 CIC S160 CCA 121 142 9 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F1,F1,C2" 5/18/192 RIC B146 BEX 121 82 E 2 WES "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,M1,L2" 5/13/1992 KFO B737 SWA 121 82 E 2 "BOM B THREAT TAIR S/BOST" DN,F2" 5/26/1992 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Г</td> <td></td> <td></td> <td></td> <td></td>							Г				
4/16/1992 JFK L1011 DAL 121 175 7 ? FIRE NR2 & 3 ENGINES "DN,F1,L2" 4/18/1992 CVG S227 COM 135 9 E 0 N/A "LOST OIL PRESS,FLAMES FRM AIR INTAKE" "DN,F4" 4/21/1992 LGA B727 AAA 121 44 0 YES ENG FIRE NR1 ? LGA 04/01/92 "A1,DNR,F2" 4/22/1992 TPA B727 AAL 121 142 9 YES "HYD FAIL, FAA 04/22/93" "D,F1,F2,L2" 5/7/1992 CLT S360 CCA 121 19 0 N/A RT ENG FIRE WARN "DN,F1" 5/8/1992 RIC B146 BEX 121 26 1 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,M1,L2" 5/13/1992 LAX B767 DAL 121 82 E 2 YES "BOMB, NO BOMB" "DN,F2" 5/24/1992 MSY B757 AAL 121 82 E 2 YES "BOMB THREAT "D,F2,M1,L2" 5/24/1992 MSY B7							E				
4/18/1992 CVG S227 COM 135 9 E 0 N/A "LOST OIL PRESS,FLAMES FRM AIR INTAKE" "DN,F4" 4/21/1992 LGA B727 AAA 121 44 0 YES ENG FIRE NR1 ? LGA 04/01/92 "A1,DNR,F2" 4/22/1992 TPA B727 AAL 121 142 9 YES "HYD FAIL, FAA 04/22/93" "DN,F4" 5/7/1992 CLT S360 CCA 121 19 0 N/A RT ENG FIRE WARN "DN,F1" 5/8/1992 RIC B146 BEX 121 26 1 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,M1,L2" 5/13/1992 LAX B767 DAL 121 84 3 YES "BOMB, NO BOMB" "DN,F2" 5/14/1992 MSY B757 AAL 121 82 E 2 YES "BOMB THREAT "D,F2" 5/24/1992 MSY B757 AAL 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 6/2/1992 ATL L1011 <td></td> <td>~</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		~									
4/21/1992LGAB727AAA121440YESENG FIRE NR1 ? IGA 04/01/92"A1,DNR,F2"4/22/1992TPAB727AAL1211429YES"HYD FAIL, FAA 04/22/93""D,F1,E,L2"5/7/1992CLTS360CCA121190N/ART ENG FIRE WARN"DN,F1"5/8/1992RICB146BEX121261YESENG. FIRED5/13/1992LAXB767DAL121843YES"SMOKE IN CABIN, TAKE OFF ABORTED""D,F2,M1,L2"5/19/1992SFOB737SWA12182E2YES"BOMB, NO BOMB""DN,F2"5/24/1992MSYB757AAL1211580?BOMB THREAT"D,F2"5/26/1992DCADC9AAA12167EUNO"ENG START/TORCH, STAIRS/BUS""DN,H1"6/2/1992ATLL1011DAL121166E1?"SMOKE IN CABIN,EVAC""DN,H1"6/14/1992PFNB777CAL121241E3YES"BOMB THREAT, NO BOMB""DN,F2"7/16/1992ORDATP?135270N/ABRAKE FAILURED7/19/1992STLDC9TWA121700?"BLW RT GR 2 TRS, A/C TOWED"D7/19/1992ORDF100?135890N/ALEFT MAIN BRAKES SPARKINGD <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		-									
4/22/1992TPAB727AAL1211429YES"HYD FAIL, FAA 04/22/93""D,F1,F2,L2"5/7/1992CLTS360CCA121190N/ART ENG FIRE WARN"DN,F1"5/8/1992RICB146BEX121261YESENG. FIRED5/13/1992LAXB767DAL121843YES"SMOKE IN CABIN, TAKE OFF ABORTED""D,F2,M1,L2"5/19/1992SFOB737SWA12182E2YES"BOMB, NO BOMB""DN,F2"5/24/1992MSYB757AAL1211580?BOMB THREAT"D,F2"5/26/1992DCADC9AAA121167EUNO"ENG START/TORCH, STAIRS/BUS""DN,F2"6/21/1992ATLL1011DAL121186E1?"SMOKE IN CABIN, EVAC""DN,F2"6/14/1992PFNB777CAL121241E3YES"BOMB THREAT, NO BOMB""DN,F2"7/16/1992ORDATP?135270N/ABRAKE FAILURED7/16/1992ORDATP?135890N/ALEFT MAIN BRAKES SPARKINGD7/124/1992ORDF100?135890N/AFLAT RIGHT MAIN TIRED7/25/1992ORDS360?135330N/AFLAT RIGHT MAIN TIRED7/25/1992OR							E				
5/7/1992 CLT S360 CCA 121 19 0 N/A RT ENG FIRE WARN "DN,F1" 5/8/1992 RIC B146 BEX 121 26 1 YES ENG, FIRE D 5/13/1992 LAX B767 DAL 121 84 3 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,M1,L2" 5/19/1992 SFO B737 SWA 121 82 E 2 YES "BOMB, NO BOMB" "DN,F2" 5/24/1992 MSY B757 AAL 121 158 0 ? BOMB THREAT "D,F2" 5/24/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 6/2/1992 DCA DC9 AAA 121 66 E 1 ? "SMOKE IN CABIN,EVAC" "DN,M1" 6/14/1992 PFN B777 CAL 121 241 E 3 YES "BOMB THREAT, NO BOMB" D D 7/16/1992 ORD ATP ? <											
5/8/1992 RIC B146 BEX 121 26 1 YES ENG, FIRE D 5/13/1992 LAX B767 DAL 121 84 3 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,M1,L2" 5/19/1992 SFO B737 SWA 121 82 E 2 YES "BOMB, NO BOMB" "DN,F2" 5/24/1992 MSY B757 AAL 121 158 0 ? BOMB THREAT "D,F2,M1,L2" 5/26/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 6/2/1992 ATL L1011 DAL 121 166 E 1 ? "SMOKE IN CABIN,EVAC" "DN,H2" 6/14/1992 PFN B777 CAL 121 241 E 3 YES "BOMB THREAT, NO BOMB" "DN,H2" 7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/19/1992 STL DC9 TWA 121											
5/13/1992 LAX B767 DAL 121 84 3 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,M1,L2" 5/19/1992 SFO B737 SWA 121 82 E 2 YES "BOMB, NO BOMB" "DN,F2" 5/24/1992 MSY B757 AAL 121 158 0 ? BOMB THREAT "DN,F2" 5/26/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 6/2/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN,EVAC" "DN,M1" 6/14/1992 PFN B777 CAL 121 241 E 3 YES "BOMB THREAT, NO BOMB" "DN,H2" 7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/16/1992 ORD ATP ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ?											
5/19/1992 SFO B737 SWA 121 82 E 2 YES "BOMB, NO BOMB" "DN,F2" 5/24/1992 MSY B757 AAL 121 158 0 ? BOMB THREAT "D,F2" 5/26/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 6/2/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN,EVAC" "DN,M1" 6/14/1992 PFN B777 CAL 121 241 E 3 YES "BOMB THREAT, NO BOMB" "DN,F2" 7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/16/1992 ORD ATP ? 135 27 0 N/A BELW RT GR 2 TRS, A/C TOWED" D 7/16/1992 ORD ATP ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ? 135 33											
5/24/1992 MSY B757 AAL 121 158 0 ? BOMB THREAT "D,F2" 5/26/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 6/2/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN,EVAC" "DN,M1" 6/14/1992 PFN B777 CAL 121 241 E 3 YES "BOMB THREAT, NO BOMB" "DN,F2" 7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/19/1992 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/19/1992 ORD F100 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 8/1/1992 CLT LTT ? 135 33 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td>							_				
5/26/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 6/2/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN,EVAC" "DN,F2" 6/14/1992 PFN B777 CAL 121 241 E 3 YES "BOMB THREAT, NO BOMB" "DN,F2" 7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/19/1992 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/24/1992 ORD F100 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 8/1/1992 CLT LTT ? 135 33 0							E				
6/2/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN,EVAC" "DN,M1" 6/14/1992 PFN B777 CAL 121 241 E 3 YES "BOMB THREAT, NO BOMB" "DN,M1" 7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/19/1992 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/24/1992 ORD F100 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 7/25/1992 ORD S360 ? 135 33 0 N/A FLAT TIRE D 8/1/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN,"2" 8/3/1992 STL B727 TWA 121 99 E											
6/14/1992 PFN B777 CAL 121 241 E 3 YES "BOMB THREAT, NO BOMB" "DN,F2" 7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/16/1992 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/24/1992 ORD F100 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 7/25/1992 ORD S360 ? 135 33 0 N/A FLAT TIRE D 8/1/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN,"2" 8/3/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"											
7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/19/1992 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/24/1992 ORD F100 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 7/25/1992 ORD S360 ? 135 33 0 N/A FLAT TIRE D 8/1/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN" 8/3/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"										·	
7/19/1992 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/24/1992 ORD F100 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 7/25/1992 ORD S360 ? 135 33 0 N/A FLAT TIRE D 8/1/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN" 8/3/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"							E				<i>,</i>
7/24/1992 ORD F100 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 7/25/1992 ORD S360 ? 135 33 0 N/A FLAT TIRE D 8/1/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN" 8/3/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"											
7/24/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 7/25/1992 ORD S360 ? 135 33 0 N/A FLAT RIGHT MAIN TIRE D 8/1/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN" 8/3/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"											
7/25/1992 ORD S360 ? 135 33 0 N/A FLAT TIRE D 8/1/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN" 8/3/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"											
8/1/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN" 8/3/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"											
8/3/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"											
			LTT	?	135	100		U	N/A		
8/5/1992 RIC B146 BEX 121 26 2 N/A ENG FIRE WARNING "DN,F1"			B727		121	99	E	0	NO		
	8/5/1992	RIC	B146	BEX	121	26		2	N/A	ENG FIRE WARNING	"DN,F1"

DATE	AIR PORT	TYPE A/C			CREW & PAX	-	URY otal	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
8/10/1992	ORD	DC9	?	121	94		0	?	NOSE GEAR STEERING FAILED	D
8/10/1992	ORD	S360	?	135	20		0	N/A	RAN OFF TWY	D
8/19/1992	DCA	M23	AAAX	135	21		0	N/A	RAN OFF RWY	D
8/20/1992	ORD	B146	AWS	121	53		0	N/A	CRACKED HYD PRESS LINE	"DN,F1"
8/22/1992	DEN	MD80	CAL	121	146		0	?	"HOT BRAKE, BRAKE LOCKED"	D
8/23/1992	SDF	MD88	DAL	121	145		0	?	OFF WET RWY	"DN,F1"
8/23/1992	ORD	B146	?	135	45		0	N/A	SMOKE IN COCKPIT	D
8/26/1992	MIA	B737	CAR	121	94		3	YES	"SMOKE,EVAC"	"DN,F2,M1,N3"
8/27/1992	MLI	AT42	TST	121	37		0	N/A	"SMOKE & ALARMS, ABORTED TO"	"DNC,F1"
8/29/1992	ORD	S360	?	135	25		0	N/A	HYD FAILURE	D
8/29/1992	ORD	AT42	?	135	24		0	N/A	PAX DEPLANED & BUSSED TO TERMINAL	D
8/30/1992	BOS	DC9	PJX	121	161		0	?	TIRE FAILURE ON TO ROLL	"A1,DN,F1"
9/14/1992	ORH	DC9	AAA	121	72		0	?	"BLEW MAIN TIRES, ABORTED TAKE OFF"	"DN,F1"
9/27/1992	EFD	AT42	BRT	121	29		0	N/A	OIL PRESS LIGHT	"DNC,F1"
10/1/1992	ATL	MLG	?	121	50	Е	U	?	"ELEC FAIL, BLOWN TIRES"	"A1,DN"
10/12/1992	PIT	B737	AAA	121	136		0	?	"ENG FAIL NR2, ABORTED TAKE OFF"	"A1,DN,F1,F2,M1"
10/17/1992	RIC	B737	AAA	121	24		0	NO	"SMOKNG STARTER, EXIT DOOR USED"	D
11/2/1992	ORD	B747	?	121			0	?	BLOWN TIRES	D
11/8/1992	JFK	B767	UAL	121			0	NO	"SUSPCT BOMB, STAIRS USED"	D
11/18/1992	DTW	S227	MSA	135		Е	0	N/A	"SMOKE IN CABIN,EVAC"	"DN,F4"
11/27/1992	ORD	B737	DAL	121			11	NO	"APU SMOKE, PAX START"	"DN,F2,N3,L2"
12/30/1992	ORD	AT42	?	135			0	N/A	SMOKE IN #1 ENGINE	D
1/1/1993	OKC	B737	CAL	121			0	NO	"SLID OFF TWY, PORT AIR STAIRS USED"	D
1/2/1993	DEN	DC9	MDX				0	?	"OVERAN RWY, LOST PT OF ENG"	D
1/10/1993	DFW	DC9	AAL	121			5	YES		DN,F2,F3,L2,M1,N3"
1/10/1993	DEN	MD80	CAL	121			4	YES	HARD LANDING	"DN,F2"
1/11/1993	RIW	1900	BRT	121		E	0	N/A	WHITEOUT OFF RWY HIT DITCH	"DNC,F3"
1/15/1993	BFL	B737	UAL	121			2	?	"SMOKE IN COCKPIT, NO FIRE"	"DNC,F1,F2,F3,L2"
1/20/1993	DSM	B727	AAL	121		E	0	?	"MISALIGN RWY, LOW RVR"	D
2/1/1993	IAH	B727	UTA	121			0	YES	"APU FIRE, SMOKE/NO FIRE"	"DN,F1,F2,F3"
2/10/1993	PBI	B737	UAL	121		-	0	?	JET FUEL LEAK	D
2/11/1993	DSM	DC9	TWA			E	0	?	"WENT OFF TWY, LOW RVR"	D
2/19/1993	DEN	B757	DAL	121			0	?	BOMB THREAT	D
2/19/1993	SJC	B737	DAL	121		-	0	?	BLOWN TIRE	"D,F3"
2/22/1993	BOS	S340	BEX	121		E	4	?	LANDED WITH NOSE GEAR RETRACTED	"DN,F3"
2/24/1993	ORD	B737	UAL	121		E	1	YES	"HOT START, PAX START"	"A1,DN,F2,F3,L2"
2/24/1993	FLL	B757	DAL	121			0	NO	"BLEW 4 MAIN TIRES,NOSE GEAR DAMAGE"	D3
3/1/1993	CLT	S360	AAX	121			0	NO	SMOKE IN COCKPIT	D3
3/13/1993	CLT	B737	AAA	121			0	NO	SKIDDED OFF TWY	D3 "D F2"
3/13/1993	ORD	F100	AAA	121			0	N/A	NOSE GEAR FAILURE	"D,F3"
3/25/1993	BNA	B737	SWA	121			0	YES	BOMB THREAT	"D,F2"
3/29/1993	SFO	A310	DAL	121			36 70	YES	"SMOKE IN CABIN, NO FIRE"	"A1,D,F2,F3,L2"
4/14/1993	DFW	DC10	AAL	121			70	YES	"HARD LNDG, LTNG STRK, 1PAX BROKE NECK	
4/22/1993	DTW	A320	NWA			Б	0	?	"OFF RWY, WET RWY"	"A1,DN,F3"
4/24/1993	SYR	S340	BEX	121		E	0	N/A	RT ENG MALFUNCTION	"DN,F3"
4/27/1993	DEN	MD80	CAL	121		Б	6	YES	GEAR FAIL (CHUTES/BUS)	"DN,F2,M1,N3"
4/29/1993	CLE	B737	UAL	121			U	? NI/A	LOST WHEEL	"A1,DN" "DN E2"
5/7/1993	PIT AZO	F28	AAA	121		E	0	N/A	LT GEAR CAME OFF ON ROLLOUT	"DN,F3" N" "DNC F3"
5/24/1993	AZO	\$360	SIM	121		E	0	N/A	"ORD APP LOST RADAR,CARGO SMOKE WARD	
5/28/1993	ORD	S360	; ;	135			0	N/A VES	RT MAIN TIRE BLOWN "SMOKE CABIN, NO FIRE"	D "DNI E2 E2 I 2"
5/29/1993	ATL LAY	L1011 P757	DAL	121			3	YES		"DN,F2,F3,L2"
6/8/1993	LAX	B757 B727	UAL	121		Б	0	NO	LW SLIDE DEPLOYED IN FLIGHT	"DN,N3" "DN E2"
6/10/1993	EKO	B737	TEM			E	0	;	NRI ENG SMOKE "Elimes cockdit fan motod"	"DN,F3"
6/12/1993	LGA	A320	NWA	. 121	107	E	0	?	"FUMES COCKPIT, FAN MOTOR"	"DNR,F2"

DATE	AIR PORT	TYPE A/C			CREW & PAX	-	URY Total	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
6/14/1993	ACY	S360	AAA	121	21		0	N/A	"CARGO FIRE, NO FIRE"	D
6/18/1993	SAV	DC9	AAL	121	133		1	YES	FIRE LEFT ENG ON CLIMB	"DNC,F3,L2,N3"
7/11/1993	ORD	MD80	AAL	121	91	E	U	NO	TIRE MISSING	D3
7/18/1993	CLT	F28	AAA	121	64		0	NO	SMOKE IN COCKPIT	D3
7/25/1993	BOS	B727	AAA	121	41		0	NO	3 BLOWN TIRES	D
7/28/1993	ACY	B737	VAL	121	82	Е	0	NO	"HYD FAILURE, AIRSTAIRS, BUS"	D
7/28/1993	ORD	B767	SWIS	121	140	Е	U	NO	BOMB THREAT	D3
7/29/1993	ROA	B727	RYA	121	99	Е	0	?	SMOKE RIGHT ENGINE	"DNC,F3"
8/4/1993	MCO	E120	COM	121	14	Е	0	N/A	LEFT ENG DUCT LEAK	"DN,F3"
8/4/1993	SFO	DC10	UAL	121	156		U	YES	"SMOKE COCKPIT, AIRLINE REPORT 6 INJ"	"D,L2"
8/10/1993	BUF	B727	DAL	121	99	Е	2	?	SMOKE IN CABIN	"DNR,F3,L2"
8/16/1993	DEN	B737	UAL	121	63		0	NO	BLOWN TIRES	D
8/27/1993	BOS	B747	ALI	121	383		0	NO	BOMB THREAT	D
9/1/1993	SPS	JT31	SIM	121		Е	0	?	FIRE IN LEFT ENGINE	"DNC,F3"
9/12/1993	DEN	B727	UAL	121			1	YES	SMOKE COCKPIT	"D,F2,F3,L2"
9/16/1993	CLT	?	AAA	121		Е	0	NO	FIRE ALARM IN ENGINE	D3
9/20/1993	ATL	L1011	DAL	121		Ē	2	YES	FUMES AIRCOND	"D,L2"
9/22/1993	ACY	AT42	CALX			E	0	N/A	SMOKE FROM WHEEL CHAIR	D,112
9/27/1993	BOS	B727	CAL	121		L	0	NO	MAIN GEAR SHEARED	D
9/28/1993	SAN	B757	UAL	121			16	YES	"FIRE NR1, EXT FIRE"	"D,F3,L2"
10/4/1993	DEN	MD80	DAL	121			3	YES	BLEW N2 ENGINE	"D,L2"
10/4/1993	BOS	B747	OLY	121			0	NO	MN GEAR FIRE	D,LZ
						Б				
10/28/1993		S360	PAC	121		E E	0	N/A	BAG COMP SMOKE LIGHT	"DNC,F3"
11/14/1993	2	JT32	EXA	121		E	0	N/A	NR1 ENG FIRE WARNING LIGHT	"DNC,F3"
12/31/1993		B737	UAL	121			0	NO	BLOWN TIRES	"D,F3"
1/1/1994	MIA	B767	UAL	121			0	YES	"PAX SAW FLAME, PANICKED, EVAC STARTED	
1/1/1994	ORD	B737	UAL	121			U	NO	HYD LEAD LT MAIN GEAR	D3
1/4/1994	CLT	F28	AAA	121			0	NO	BROKEN STEERING CABLE	D3
1/10/1994	DEN	MD80	CAL	121			3	YES	RT MAIN GEAR	"D,F3"
1/15/1994	BOS	S340	BEX	135			0	N/A	FIRE LIGHT IN CARGO COMPTMT	D
1/18/1994	CVG	MD88	DAL	121			0	NO	SLID OFF RWY	D
1/18/1994	BOS	S340	BEX	135			0	N/A	BOMB THREAT	D
1/19/1994	SBN	ATP	UFS	121			0	YES	APU FIRE	"DNC,F3,N3"
1/20/1994	BOS	DC9	MDC				0	NO	SMOKE	D
2/9/1994	ORD	B737	CAL	121			0	;	LEFT MAIN GEAR RETRACTED	D3
2/13/1994	SAV	DC9	AAA	121			3	YES	ENGINE FIRE	"DNC,F2,F3"
2/14/1994	OMA	F28	AAL	121		E	0	N/A	NR1 ENG FIRE	"DN,F3"
2/25/1994	CWA	ATP	UALX	121			2	YES	"ELEC FIRE, SMOKE IN COCKPIT"	"DNC,N3"
2/26/1994	ORF	B737	AAA	121	47		0	YES	BLOWN TIRE	"DN,F2,F3"
3/2/1994	LGA	MD80	CAL	121	116		7	?	ABORTED TAKEOFF	"DNR,N3"
3/2/1994	ATL	DC9	VUJ	121	85		2	YES	"FIRE NR2, NO FIRE"	"DN,F2,F3"
3/6/1994	IAH	AT42	CALX	135	46		0	N/A	FIRE WARNING LIGHT	D
3/15/1994	CVG	DC8	KAL	121	144	E	0	NO	"DOOR BLEW OUT, DECOMPRESSION"	"D,N3"
3/18/1994	UNV	JT32	ACA	121	14	Е	0	N/A	RAN OFF RWY	"DNC,F2,F3"
3/22/1994	JFK	AT42	TWA	X 121	45		2	N/A	"FIRE WARN, NO FIRE"	"D3,F2"
3/25/1994	LAS	E120	SKA	121	14	Е	0	N/A	LEFT ENG FIRE ON TO	"DN,F3"
4/2/1994	MCO	B727	CAL	121	150		2	YES	LT GR NOT EXTND	"DN,F2,F3,N3"
4/12/1994	MLU	JT31	EXA	121	14	Е	0	N/A	NR1 ENG FIRE WARNING	"DNC,F3"
4/17/1994	SEA	DC9	ALA	121	139		1	YES	SMOKE FROM LANDING GEAR	"D3,F3,M1"
4/17/1994	SFO	JT31	WSA	121	14	Е	0	N/A	RT ENG FIRE	"DN,F3"
4/26/1994	MSP	JT31	NWA	121	14	Е	0	N/A	ENG FIRE LIGHT	"D3,F3"
4/26/1994	HNL	B737	ALO	121	59		5	YES	SMOKE IN COCKPIT & CABIN	"DN,M1,N3"
5/1/1994	CLT	F100	AAA	121	94		1	YES	"SMOKE IN COCKPIT, NOSE GEAR FAIL"	"A2,D3,N3"
5/9/1994	DEN	B727	CAL	121	32		0	NO	RT MAIN GEAR	D

DATE	AIR PORT	TYPE A/C			CREW & PAX	-	URY Total	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
5/11/1994	á LAF	DHC8	?	121	34	Е	0	N/A	FIRE LIGHT ON	"DNC,F3"
5/24/1994	á MEM	S340	EXA	121	24	Е	0	N/A	SMOKE IN CABIN	"DN,F3"
5/25/1994	á ORD	F28	AAL	121	68	Е	3	N/A	FIRE ON GROUND	"DN,F3"
5/25/1994	É EVV	JT32	TST	121	14	Е	0	N/A	"FLAMES, SMOKE LEFT ENGINE"	"DNC,F3"
5/28/1994	í ORD	MD80	AAL	121	90		U	YES	GROUND FIRE	D3
5/31/1994	á MGM	S340	EXA	121	24	Е	0	N/A	AVIONIC SMOKE LIGHT	"DNC,F3"
6/7/1994	BDL	1900	PAC	121	14	Е	0	N/A	"RT ENG FIRE LT, NO FIRE"	"DNC,F3"
6/29/1994	é BOS	MD80	CAL	121	91	Е	0	?	BLEW RT TIRE	"DN,F2"
7/5/1994	GSO	MD80	DAL	121	93		1	NO	A/C RAN OFF RTWY	D3
7/22/1994	á IAH	B737	CAL	121	82	Е	0	?	LOST ELECTRONICS AND DC PWR	"DN,F3"
7/22/1994		S340	?	121		Е	0	N/A	ENGINE FIRE LIGHT	"DN,F3"
7/31/1994		B747	TWA			Е	0	?	FIRE LIGHT NR2 ENGINE	"DN,F3"
8/1/1994	IAD	JT32	?	121		Е	0	?	"LOSS HYD PRESSURE, DAY UNKN"	"A2,DN"
8/5/1994	FAT	JT31	WSA	121		E	0	N/A	"SMOKE, FLAMES RIGHT ENGINE"	"DNC,F3"
8/5/1994	MSP	S340	?	121		E	0	N/A	CABIN SMOKE	"DN,F3"
8/7/1994	ESF	JT31	?	121		E	0	N/A	LEFT ENG FAILED ON CLIMBOUT	"DNC,F3"
8/7/1994	LAX	S227	SKA	121		E	0	N/A	LEFT ENG FIRE LIGHT	"DN,F3"
8/8/1994	MEM	S340	EXA	121		E	0	N/A	CARGO COMP SMOKE LIGHT	"DN,F3"
8/17/1994		S360	PAC	121		E	0	N/A	FIRE LIGHT RIGHT ENG	"DN,F3"
8/19/1994		MD11	ALI	121		L	0	NO	NOSE GEAR COLLAPSE	"D3,N3"
8/29/1994		MD80	VEN	121			0	?	BLEW TIRES	"DN,F2"
9/3/1994	SFO	E120	WSA	121		Е	0	: N/A	SMOKE IN COCKPIT	"DN,F3"
			WSA	121		E	0	N/A	FUEL LEAKED ON RAMP	"DNC,F3"
9/15/1994		JT31				E	0	N/A		
9/19/1994		JT41	ACA	121					"IRATE PAX, PROBABLE GUN (CIG LTR)"	"DN,F3"
10/1/1994		MLG	?	121		E	0	?	MAIN GEAR TIRE BLEW ON TO	"A2,DN"
10/5/1994		S340	COM			Б	0	N/A	NO FLAP LANDING	D
11/2/1994		B747	BOA	121		E	0	NO	FIRE WARN LT	D
11/18/199		B737	UAL	121			0	NO	MISS MAIN GEAR	D
11/19/199		M23	DHL	135		Б	0	N/A	SMOKE MAIN CAB IN AC&HEAT SYS	D
11/27/199		B727	AAL	121		E	0	NO	TIRES BLEW OUT LT MAIN GEAR	D3
12/5/1994		\$340	BEX	135			0	N/A	"FIRE ON AIRCRAFT, PORTABLE STAIRS"	D "DNLF2 N2"
12/12/199		AT42	ASE	121		F	0	N/A	GENERATOR FAULT LIGHT	"DN,F3,N3"
12/12/199		1900	MSA	135		E	0	N/A	"SMOKE IN COCKPIT, EVAC"	"DNC,F4"
12/23/199		MD80	AAL	121		-	0	NO		
12/24/199		1900	MSA	121		E	0	N/A	"FIRE ON LDNG,LIGHTS SHORTED"	"DNC,F3"
1/1/1995	MSN	MLG	;	121		E	U	?	INFLIGHT ENG FIRE	"A2,DNC"
1/8/1995	CLT	B737	AAA	121			0	NO	HYD INDICATOR	D3
1/11/1995		MD80	TWA				0	NO	FLAT TIRES	D
1/17/1995		AT72	AALX				2	N/A	HOT BRAKE CAUTION LIGHT	"DN,N3"
1/30/1995		MD88	DAL	121			4	YES	FIRE IN TAIL	"A2,D3,F2,F3"
2/6/1995	BOS	S340	BEX	135	24	Е	0	N/A	LEFT MAIN BRAKE FROZE	D
2/16/1995		B757	DAL	121		E	0	NO	BOMB THREAT	D
3/2/1995	OMA	B737	DAL	121	82	E	0	NO	FUEL SPILL	D3
3/3/1995	SLC	S227	SKA	135	18		0	NO	"A/C OFF RWY, POSS ENG FIRE"	D3
3/6/1995	ART	1900	MSA	121	14	Е	0	N/A	SMOKE IN COCKPIT	"DNC,F3"
3/7/1995	STL	JT31	TWA	X 135	18		0	N/A	ENG FIRE WARN LIGHT	D
3/9/1995	IAH	MD80	CAL	121	139		1	YES	SMOKE	"DN,F2"
3/9/1995	SFO	MD80	CAL	121	125		3	YES	SMOKE CABIN (F3 ON 03/10)	"D,F3"
3/11/1995	5 STL	DC9	TWA	121	67	Е	0	NO	LEFT MAIN BRAKE LOCKED	D
3/17/1995	5 BOS	1900	BEX	135	14	Е	0	N/A	SMOKE IN COCKPIT	D
3/23/1995	5 MSP	DC9	AAA	121	67	Е	3	?	EXH PIPE FIRE ON START UP	"DN,F3"
4/2/1995	JFK	MD11	AAL	121	108		43	YES	FIRE N2 ENG	"A2,D3,F2,N3"
4/3/1995	DFW	B727	AERC) 121	160		2	YES	FIRE WARNING N1 LFT ENG	"DN,F4,N3,"
4/4/1995	JFK	MD11	AAL	121	199	Е	38	?	"ENG TAIL PIPE FIRE,EVAC"	"DN,M1"

DATE	AIR PORT	TYPE A/C			CREW & PAX		URY Iotal	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
4/8/1995	ORD	?	UAL	121	100	Е	U	?	LFT OUTBOARD MAIN GEAR LOST TIRE	D3
4/11/1995	PVD	DC9	NWA	121	94		0	NO	FUEL LEAK	D
5/19/1995	BOS	DC9	AAA	121	94		U	NO	BLOWN TIRES	D
5/22/1995	PHL	JT31	UALX	135	18		0	N/A	SMOKE/FIRE FROM ENGINE	D
6/8/1995	ATL	DC9	VUJ	121	55		6	?	"FIRE, DIR DATE 06/10"	"D,F2,M1"
6/12/1995	ATL	B727	DAL	121	52		0	YES	SMOKE	"DN,F2"
6/20/1995	SLC	CL60	SKA	121	14	Е	1	?	"MAIN TIRES BLEW, ABORTED TO"	"DN,F3"
6/29/1995	LGA	DC9	AAA	121	67	Е	0	N0	"SMELLED SMOKE, USED AIR STAIRS"	"DNR,F3"
6/30/1995	BWI	MD80	TWA	121	132		0	YES	"CAPT EVAC, RT MAIN TIRE BLEW SMOKE"	"D,F3"
7/13/1995	ORD	B767	AAL	121	140	Е	U	NO	RTO (ABORT)	D3
7/15/1995	FLL	B737	CAN	121	89		4	YES	SMOKE/FIRE	"DN,F2"
7/17/1995	ABQ	B737	SWA	121	82	Е	0	YES	SMOKE IN FUSELAGE (POSSIBLE APU)	D3
7/17/1995	ABY	B737	SWA	121	82	Е	0	YES	SMOKE	"DN,F2"
7/27/1995	SFO	MD80	ALA	121	120		0	?	"SMOKE CAB, CAB CREW TREATED FOR SMOK	KE" "A2,D"
8/1/1995	STL	JT31	?	121	14	Е	0	N/A	"BRAKE FIRE, ABORTED TO"	"A2,DN"
8/8/1995	MSP	S340	CASX	135	24	Е	0	NO	SMOKE IN COCKPIT	D3
8/11/1995	BOS	S340	BEX	135	24	Е	0	N/A	"RT MAIN BLOWN, PORTABLE STAIRS"	D
8/16/1995	MSY	B727	AAL	121	58		0	NO	LOSS OF FUEL IN FLIGHT	D3
8/17/1995	PHL	S340	BEX	121	31		1	N/A	NO. 1 ENGINE FIRE	"D,N3"
8/27/1995	CDR	B737	UAL	121	43		0	YES	FIRE WARNING	"DNC,F2"
9/19/1995	MEM	S340	NWA				0	N/A	BOMB THREAT	D
9/22/1995	SAN	?	UAL	121		Е	0	NO	BOMB THREAT	D3
9/26/1995	FLL	B737	CAR	121			3	YES	"SMOKE IN A/C, O2 MASKS DEPLOYED"	"D3,F3,N3"
11/1/1995	ORD	?	AALX			Е	1	N/A	A/C FIRE	D3
11/12/1995	BDL	MD80	AAL	121		2	1	?	"STRUCK TREES OFF APT, THEN LANDED"	"DNC,M1,N3"
11/27/1995	SFO	MD80	ALA	121		Е	0	NO	A/C STUCK IN TURF	D3
12/12/1995	MSP	B737	UAL	121		E	3	NO	"HOT ENG START, PAX PANIC, EEE OFF WING"	
12/12/1995	SFO	MD80	ALA	121		2	0	NO	MALFUNCTION BRAKE	D3
12/20/1995	JFK	B747	TWR				60	NO	ABORTED TAKEOFF & CRASHED	"D3,M1,N3"
12/29/1995	GSO	MD80	DAL	121			0	NO	BOMB THREAT	D3
12/30/1995	CLT	B737	AAA	121			0	NO	A/C SLID OFF TWY	D3
1/4/1996	HOU	AT72	AALX				0	NO	BOMB THREAT	D3
1/5/1996	STL	JT31	TSR	135			0	N/A	FIRE WARN LIGHT NR2	D3
1/17/1996	LAS	F28	AR21	121		Е	0	N/A	VIBRATION ON LANDING	"DN,F3"
1/23/1996	BNA	B727	DAL	121		L	0	YES	BOMB THREAT	D3
2/1/1996	BNA	DC9	VUJ	121			0	YES	RT MAIN GEAR SHEARED ON LANDING	"D3,F3,M1"
2/3/1996	OGG	DC9	HAL	121		Е	3	?	SMOKE AFT CABIN ON TO	"DNC,F4"
2/8/1996	PHL	B727	NWA			E	0	NO	"SMOKE IN CABIN AT GATE, EVAC HITCHES"	
2/18/1996	DTW	B727 B757	NWA			E	1	?	"ENG FIRE LIGHT ON TO ROLL, EVAC"	"DN,F4"
2/18/1996	IAH	DC9	CAL	121		Ľ	1	YES	LANDING GEAR COLLAPSED	"D3,M1,N3"
2/20/1996	PDX	B767	DAL	121			4	YES	APU FLAMES & SMOKE	"DN,N3"
2/20/1996	JFK	A300	AAL	121			4 34	YES	SMOKE IN COCKPIT & CABIN	"DN,M1,N3"
2/20/1996	CLT	F100	AAA	121			0	NO	MAIN GEAR PROBLEMS	D11,111,113 D3
						Е			BOMB THREAT ABOARD A/C	
2/23/1996	BNA	DC9	VUJ	121		E	0 0	NO		D3
2/25/1996	BOS	DHC8	AAA	121			0	NO N/A	SMOKE IN A/C NO. 2 ENGINE FIRE	D3
2/25/1996	JFK	AT42	AALX					N/A		D3
3/8/1996	RDU TUU	JT31	CCA	135		F	0	N/A	UNSAFE GEAR (PASS THRU WINDOW EXITS)	D3 "DNC F4"
3/11/1996	TUL	AT42	SIM	135		E	1	N/A	"SULPHUR SMELL IN CABIN, EVAC"	"DNC,F4"
3/20/1996	ATL	B737	DAL	121		E	7	?	SMOKE IN CABIN	"DN,F4"
4/30/1996	ONT	B737	SWA	121			3	YES	LEFT MAIN GEAR HUNG UP	"D3,M1,N3"
5/2/1996	DIA	1900	UALX				0	N/A	RT MAIN GEAR COLLAPSE	"DN,M1,N3"
5/16/1996	SAN	E120	SKA	135			0	NO	FOUR BLOWN TIRES	D3
5/23/1996	IND	1900	SYA	135			0	N/A	"SMOKE IN CABIN,EVAC"	"DN,M1,N3"
6/9/1996	BOS	S340	BEX	121	12		0	NO	FIRE IN #1 ENGINE	D3

DATE	AIR PORT	TYPE A/C	AIR- I LINE P.		CREW & PAX		URY Total	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
6/17/1996	JFK	?	TWRA	135	100	Е	0	?	NR2 GEN LIGHT & LOW OIL LIGHT	"DN,F4"
6/20/1996	ALB	S340	BEX	135	24	Е	0	?	"SMOKE IN COCKPIT, EVAC"	"DNC,F4"
6/28/1996	DIA	B737	UAL	121	126		0	NO	ENGINE OUT	D3
7/6/1996	SFO	B737	AWA	121	82	Е	0	?	BLEW TWO MAIN LDG TIRE ON LDG	"DN,F4"
7/8/1996	BNA	B737	SWA	121	127		7	YES	RTO	"D3,M1,N3"
7/12/1996	PIT	F28	AAX	121	68	Е	0	N/A	ABORTED TAKEOFF	D3
7/13/1996	ATL	MD88	DAL	121	91	Е	U	NO	BOMB THREAT	D3
7/21/1996	JAX	?	CAL	121	100	Е	0	NO	ENG CAME APART ON TO ROLL	D3
7/28/1996	SJC	MD80	ALA	121	118		0	NO	BOMB THREAT	D3
7/29/1996	DIA	DHC8	MSA	121	38		0	NO	HYD LEAD FOR GEAR	D3
8/1/1996	PBI	B737	CAR	121	60		0	NO	"BOMB THREAT, DAY NOT KNOWN"	D3
8/1/1996	ATL	B727	DAL	121	99	Е	U	NO	BOMB THREAT	D3
8/3/1996	CVG	B757	DAL	121	169		0	NO	SMOKE IN COCKPIT	D3
8/8/1996	HNL	DC9	HAL	121	76		4	YES	NOSE GEAR COLLAPSED	"DN,M1,N3"
8/13/1996	DIA	DHC8	MSA	121	38		0	NO	HYD PROBLEM	D3
8/21/1996	ATL	F100	AAA	121	71	Е	U	YES	BOMB THREAT-NOTE IN MAG ON A/C	D3
8/27/1996	DIA	B757	UAL	121	172		0	NO	HYD PROBLEM	D3
8/29/1996	CLT	F28	AAA	121	73		0	NO	VIBRATION ON TAKEOFF	D3
8/30/1996	DIA	B727	UAL	121	154		0	NO	BLOWN TIRE	D3
9/5/1996	CVG	MD88	DAL	121	91	Е	0	NO	BOMB THREAT	D3
9/6/1996	MSY	B737	AAA	121	115		0	NO	BOMB THREAT	D3
9/6/1996	LGA	DC9	CAL	121	67	Е	1	?	"FIRE #2 ENG, EVACUATED"	"DNR,F4"
9/11/1996	ATL	?	DAL	121	100	Е	U	NO	BOMB THREAT-CALL DAL MIA RESERV.	D3
10/1/1996	DAY	B757	AAA	121	117		7	YES	BOMB THREAT-DAY NOT KNOWN	D3
10/5/1996	SJC	A320	MEX	121	125		0	NO	BOMB THREAT	D3
10/13/1996	PHX	B737	AWA	121	100		0	NO	POSSIBLE BOMB	D3
10/13/1996	DAY	B757	AAA	121	125	Е	4	?	"PAX REPORT PIPE BOMB, EVAC"	"DN,F4"
10/19/1996	LGA	MD80	DAL	121	63		3	?	"STRUCK APPROACH LIGHTS, GEAR SHEARED"	"DNR,M1,N3"
10/28/1996	JFK	MD80	AAL	121	100		11	YES	"UNSAFE NOSE GR IND,(D3=10/29/96)"	"D3,M1,N3"
11/1/1996	PBI	MD80	DAL	121	136		0	NO	"BOMB THREAT, DAY NOT KNOWN"	D3
11/6/1996	SFO	JT31	UALX	135	16		0	N/A	LEFT MAIN BRAKE STUCK	D3
11/10/1996	CLE	MD80	AAL	121	120		0	NO	SLID OFF PAVE-WINTER CONDITIONS	D3
11/11/1996	CLE	MD80	DAL	121	118		0	NO	SLID OFF PAVE-WINTER CONDITIONS	"D3,M1"
11/18/1996	GRR	B737	UAL	121	71		2	?	FIRE WARN NR2 ENG	"DNC,M1,N3"
11/23/1996	DFW	DC9	AAL	121	120		1	YES	"LOUD BANG, ABORTED TAKEOFF"	"DN,M1,N3"
							898			

APPENDIX B

Survey Instrument 1

September 27, 1996

«Title»«FirstName»«LastName», «JobTitle» «Company» «Address1» «City»«State»«PostalCode»

"Part 121 and 135 EMERGENCY EVACUATION STUDY"

Dear «Title»«LastName»:

In past years, your airport was one of several airports that were contacted and responded for the study of EMERGENCY EVACUATION EVENTS by Part 121 and 135 operators. As a result of these past studies, the Federal Aviation Administration (FAA) is now conducting new research into these types of events. The goal of the research is to reduce the number of events and the possibility of injuries when the events must take place.

For past studies, seventy airports were contacted. These airports included the top 40 in the US, plus airports known to have had an emergency evacuation event. The response rate was 92.8%. This was a strong indication of the value airport management placed on the study and the professional attitude of managers in supporting safety orientated research.

The CHICAGO O'HARE airport did an excellent job responding and sent us by far the most data. An interesting aspect of the study was that 14.3% of the airports that responded said that they had no emergency evacuations but other data indicated that such events may have taken place at their airport.

Under <u>FAA contract No. 96P51602</u>, we have been tasked to up-date the previous research on Part 121 and 135 EMERGENCY EVACUATION EVENTS <u>conducted at your airport</u>. Please review your records for the period of <u>to date</u> and send us the requested information. The questionnaire and a pre-stamped and addressed envelope are enclosed.

Thanks in advance for your cooperation.

Regards and have a good day.

DR. MICHAEL K. HYNES Director of Aviation Research WESTERN OKLAHOMA STATE COLLEGE (Our toll free number is 888-335-5754)

EES9610

Survey Instrument 2

September 09, 1996

Airport - Director etc. *Address*

Part 121 and 135 EMERGENCY EVACUATION STUDY

Dear «Title»«LastName»:

In past years, your airport was one of several airports that were contacted <u>but did not respond</u> with data for a study of EMERGENCY EVACUATION EVENTS by Part 121 and 135 operators. As a result of past studies, the Federal Aviation Administration is now conducting research into these types of events. The goal of the research is to reduce the number of events and the possibility of injuries when the events must take place.

For past studies, seventy airports were contacted. These airports included the top 40 in the US, plus airports known to have had an emergency evacuation event. The response rate was 92.8%. This was a strong indication of the value airport management placed on the study and the professional attitude of managers in supporting safety orientated research.

Only four airports failed to respond and four airports failed to send us data, claiming they were either "too busy" or the cost of responding "was too high". The CHICAGO O'HARE airport did an excellent job and sent us by far the most data.

An interesting aspect of the study was that 14.3% of the airports responded that they had no emergency evacuations while other data indicated that such events did take place at their airport. Under <u>FAA contract No. 96P51602</u>, we have been tasked to up-date the previous research on Part 121 and 135 EMERGENCY EVACUATION EVENTS <u>conducted at your airport</u>. Please review your records for the period of <u>to date</u> and send us the requested information. Our questionnaire and a pre-stamped and addressed envelope are enclosed. (If information from your airport is omitted from the research effort, it will diminish the quality of the study and its value to the public.)

Thanks in advance for your cooperation. Regards and have a good day.

DR. MICHAEL K. HYNES Director of Aviation Research *WESTERN OKLAHOMA STATE COLLEGE* (My toll free number is 888-335-5754)

SURVEY OF EMERGENCY EVACUATION EVENTS BY PART 135 AND 121 AIRCRAFT FROM:	/ PART 135 AND 121 AIRCRAFT FROM:		AIRPORT/DATE:
(Information requested to comply with FAA contract No. 96P51602, September 3, 1996)	<u>96P51602, September 3, 1996)</u>		
INFORMATION REQUESTED EVENT #1	EVENT #2	EVENT #3	EVENT #4
01. DATE			
02. TYPE AIRCRAFT			
03. AIRLINE			
04. FLIGHT #			
05. # OF PASSENGERS			
06. # OF CREW			
07. # OF PASS, INJURIES			
08. # OF PASS. HOSPITALIZED			
09. # OF CREW INJURIES			
10. REASON FOR EVACUATION			
11. WERE YOU NOTIFIED IN ADVANCE?			
12. IF YES, HOW SOON BEFORE?			
13. WHERE DID THE EVACUATION TAKE PLACE (GATE, RAMP, ETC.)?	ATE, RAMP, ETC.)?		
14 WERE EXIT SLIDES USED?			
15. COMMENTS/REMARKS: (Your comments are of high value!)	high value!)		
PLEASE RETURN TO:	IF WE NEED ADDITIONAL INFORMATIC	N WHO SHOULD WE CONTACT? (You	IF WE NEED ADDITIONAL INFORMATION WHO SHOULD WE CONTACT? (You may staple your business card or stationary.)
WESTERN OKLAHOMA STATE COLLEGE Attn: DR. MICHAEL K. HYNES, Dir. of Avia. Research 2801 North Main Street Altus, OK 73521-1397 Toll free phone: 888-335-5754	NAME: TITLE: ADDRESS:	PHONE	EES3601

AIRPORT SURVEY QUESTIONNAIRE

APPENDIX C

Airports Contacted

ID	CITY, STATE	1994	1995	1996	(1995	Airport data)
					Rank	Enplanements
ABQ	ALBUQUERQUE, NM			Х	48	3,056,442
ABY	ALBANY, GA			Х	295	37,152
ACY	ATLANTIC CITY, NJ	Х			129	338,027
ATL	ATLANTA,GA	Х	Х	Х	2	28,090,978
BGM	BINGHAMTON, NY	Х			182	149,632
BNA	NASHVILLE, TN	Х	Х	Х	42	3,685,219
BOS	BOSTON, MA	Х	Х	Х	15	11,734,693
BUF	BUFFALO, NY			Х	69	1,563,176
BWI	BALTIMORE, MD	Х	Х	Х	28	6,466,755
BZN	BOZEMAN, MT	Х			166	185,967
CAE	COLUMBIA, SC	Х	Х	Х	96	569,666
CHS	CHARLESTON, SC	Х			90	691,731
CID	CEDAR RAPIDS, IA	Х			124	394,395
CLE	CLEVELAND, OH		Х	Х	32	5,270,004
CLT	CHARLOTTE, NC	Х		Х	20	10,463,122
CVG	GREATER CINCINNATI, KY	Х	Х	Х	25	7,504,549
DAL	DALLAS, TX (Love Field)	X		X	44	3,418,604
DAY	DAYTON, OH			X	80	1,088,823
DCA	WASHINGTON NATIONAL, VA	Х	Х	X	26	7,373,178
DEN	DENVER, CO (pre $12/95$)*1	X	X	X	1 8 7	14,858,763
DFW	DALLAS-FT WORTH, TX	X	X	X	3	26,962,940
DSM	DES MOINES, IA	X			86	795,625
DTW	DETROIT, MI (Metro)	X	Х	Х	9	14,082,598
EKO	ELKO, NV	X	11	11	188	134,843
ELM	ELMIRA, NY	X			216	92,327
ELP	EL PASO, TX	X			61	1,826,460
EWR	NEWARK, NJ	X	Х	Х	12	13,230,961
FAY	FAYETTEVILLE, NC	X	11	11	177	164,008
FLL	FT LAUDERDALE, FL	X	Х	Х	34	4,787,467
GSO	GREENSBORO, NC	X		X	64	1,766,316
GTF	GREAT FALLS, MT	X		11	191	127,224
GVT	GREENVILLE, TX	X				not available
HNL	HONOLULU, HI	X			17	11,283,295
HOU	HOUSTON, TX (Hobby)	X	Х	Х	41	3,905,727
IAD	WASHINGTON, DULLES	X	X	X	29	5,879,523
IAH	HOUSTON, TX	X	X	X	16	11,350,898
ICT	WICHITA, KS	X	11	21	93	658,307
ILM	WILMINGTON, NC	X			165	186,633
IND	INDIANAPOLIS, IN	Х		Х	47	3,189,932
ISO	KINSTON, NC (Regional)	Х		Δ1	364	17,973
		Х		v		-
JAX iek	JACKSONVILLE, FL	л Х	V	X X	62 8	1,779,812
JFK LAS	NEW YORK, NY (Kennedy)	л Х	X v	л Х		14,601,827
LAS LAV	LAS VEGAS, NV	л Х	X V		11	13,243,748
LAX	LOS ANGELES, CA		X	X	4	26,133,795
LGA	NEW YORK, NY (La Guardia)	Х	Х	Х	21	10,297,628

ID	CITY, STATE	1994	1995	1996	(199	5 Airport data)
					Rank	Enplanements
LGB	LONG BEACH, CA	Х		Х	167	185,776
LIT	LITTLE ROCK, AR	Х			74	1,265,673
MCI	KANSAS CITY, MO	Х	Х	Х	35	4,743,009
MCO	ORLANDO, FL	Х	Х	Х	19	10,583,166
MDW	CHICAGO, IL (Midway)	Х	Х	Х	39	4,266,831
	MEMPHIS, TN	Х	Х	Х	38	4,323,207
MIA	MIAMI, FL	Х	Х	Х	6	16,065,673
MSP	MINNEAPOLIS, MN	Х	Х	Х	14	12,559,491
MSY	NEW ORLEANS, LA	Х	Х	Х	40	4,084,886
OAK	OAKLAND, CA			Х	33	4,797,498
OKC	OKLAHOMA CITY, OK	Х			67	1,670,332
OMA	OMAHA, NB			Х	70	1,542,519
ONT	ONTARIO, CA			Х	46	3,232,996
ORD	CHICAGO, IL (O'Hare)	Х	Х	Х	1	31,433,002
ORF	NORFOLK, VA			Х	73	1,335,378
ORH	WORCESTER, MA	Х			303	33,102
PBI	WEST PALM BEACH, FL	Х		Х	54	2,699,227
PDX	PORTLAND, OR	Х	Х	Х	31	5,537,790
PFN	PANAMA CITY, FL			Х	183	147,452
PHL	PHILADELPHIA, PA	Х	Х	Х	23	8,791,372
PHX	PHOENIX, AZ	Х	Х	Х	10	13,738,433
PIT	PITTSBURGH, PA	Х	Х	Х	22	9,945,793
PNS	PENSACOLA, FL	Х			103	544,486
PVD	PROVIDENCE, RI		Х	Х	81	1,073,939
RAP	RAPID CITY, SD	Х			170	180,794
RDU	RALEIGH, NC		Х	Х	50	2,938,831
RIC	RICHMOND, VA	Х			82	1,066,411
SAN	SAN DIEGO, CA	Х	Х	Х	27	6,636,372
SAT	SAN ANTONIO, TX			Х	49	3,028,246
SDF	LOUISVILLE, KY	Х		Х	63	1,767,511
SEA	SEATTLE, WA	Х	Х	Х	18	11,077,470
SFO	SAN FRANCISCO, CA	Х	Х	Х	5	17,187,766
SJC	SAN JOSE, CA	Х	Х	Х	37	4,394,931
SLC	SALT LAKE CITY, UT	Х	Х	Х	24	8,741,761
SMF	SACRAMENTO, CA			Х	45	3,346,762
SNA	SANTA ANA, CA (John Wayne)	Х		Х	43	3,533,073
STL	ST LOUIS, MO	Х	Х	Х	13	12,790,701
SYR	SYRACUSE, NY			Х	84	1,006,200
TPA	TAMPA, FL	X	Х	Х	30	5,567,950
TUL	TULSA, OK	Х			68	1,566,424
TUS	TUCSON, AZ	Х		Х	65	1,715,732
TYS	KNOXVILLE, TN (McGhee)	Х			91	674,970
7V1	BUENA VISTA, CO	Х				
NUME	BER OF AIRPORTS CONTACTED		73	41	63* ²	

 *2 Represents Approximately 85.6% of 1995 Airline Passenger Enplanements and Approximately 91% of Reported Emergency Evacuation Events.

Airports Not Contacted

ID	CITY, STATE	Number of events	Rank	(1995 Airport data) Enplanements
ALB	ALBANY, NY	1	83	1,019,683
ANC	ANCHORAGE, AL	1	59	2,315,001
ART	WATERTOWN, NY	1		data not available
AZO	KALAMAZOO, MI	2	147	257,826
BDL	WINDSOR LOCKS, (57	2,559,642
BDR	BRIDGEPORT, CT	1	324	25,104
BFL	BAKERSFIELD, CA	1	208	108,204
BMI	BLOOMINGTON, IL	. 1	233	75,064
CMX	HANCOCK, MI	1	348	20,121
CWA	MOSINEE, WI	1	194	115,927
DBQ	DUBUQUE, IA	1	298	36,051
DEC	DECATUR, IL	1	321	26,908
EFD	HOUSTON, TX	1	276	43,821
ESF	ALEXANDRIA, LA	1	246	64,473
EVV	EVANSVILLE, IN	1	162	201,490
FAT	FRESNO, CA	3	109	471,742
FSM	FT. SMITH, AR	1	217	91,436
FYV	FAYETTEVILLE, AR	2	152	233,474
GRR	GRAND RAPIDS, MI		85	805,350
HSV	HUNTSVILLE, AL	1	119	416,475
HTS	HUNTINGTON, WV	1	234	74,742
JLN	JOPLIN, MO	1	308	30,837
LAF	LAFAYETTE, IN	1	374	16,653
LBE	LATROBE, PA	2	334	23,092
LEX	LEXINGTON, KY	1	114	445,157
LYH	LYNCHBURG, VA	1	224	85,112
MEI	MERIDIAN, MS	1	343	21,056
MGM	MONTGOMERY, AL	. 1	163	189,131
MKE	MILWAUKEE, WI	1	56	2,584,039
MKG	MUSKEGON, MI	1	290	38,439
MLI	MOLINE, IL	1	146	258,278
MLU	MONROE, LA	2	195	121,423
MSL	MUSCLE SHOALS, A	L 1		data not available
MSN	MADISON, WI	1	105	522,757
MWA	MARION, IL	1	398	13,026
OGG	KAHULUI, HI	1	52	2,783,847
ORH	WORCESTER, MA	1	303	33,102
PAH	PADUCAH, KY	1	314	28,776
PIA	PEORIA, IL	1	171	180,780
RIW	RIVERTON, WY	1	397	13,157
ROA	ROANOKE, VA	1	134	323,145
RSW	FT. MYERS, FL	1	60	1,992,443
SAV	SAVANNAH, GA	2	98	565,230
SBN	SOUTH BEND, IN	2	117	420,589
SBP	SAN LUIS OBISPO, (CA 1	197	120,772
SPS	WICHITA FALLS, TX	1	252	62,645
TUL	TULSA, OK	1	68	1,566,424
UNV	STATE COLLEGE, P	PA 1	214	94,343

Airports That Did Not Respond

No 1996 Data:

ID	CITY, STATE	· ·	Airport data) Enplanements	Number of events reported by other sources and date of last response
DFW	DALLAS/FT WORTH, TX	3	26,962,940	3 since 04/01/93
IND	INDIANAPOLIS, IN	47	3,189,932	1 since 04/01/93
LAX	LOS ANGELES, CA	4	26,133,795	no events reported since 11/01/95
PDX	PORTLAND, OR	31	5,537,790	1 since 05/01/94
PHL	PHILADELPHIA, PA	23	8,791,372	1 since 08/01/95
SDF	LOUISVILLE, KY	63	1,767,511	1 since 04/01/95
P			1.6	

Data on recent emergency evacuation events were obtained from other sources.

No Data At All:

ID	CITY, STATE	(1995	Airport data)	Number of Events reported
		Rank	Enplanements	by other sources
BUF	BUFFALO, NY	69	1,563,176	2
CHS	CHARLESTON, SC	90	691,731	1
ICT	WICHITA, KS	93	658,307	2
LGA	LA GUARDIA, NY	21	10,297,628	10
SMF	SACRAMENTO, CA	45	3,346,762	1
TUL	TULSA, OK	68	1,566,424	2

APPENDIX D

Airlines Carriers / ID Codes

Part 121		Part 121/135 and Part 135
AAA AAAX	USAIR	USAIR EXPRESS
AAL	AMERICAN AIRLINES	
AALX ABX		AMERICAN EAGLE (listed below-AALX) ABX AIR
ACA	ATLANTIC COAST AIR	
AIB ALA	AIR IBERIA ALASKA AIR	
ALI		
ALO		
AMT		
AMW	AIR MIDWEST	
APA		ASPEN AIRWAYS
AR21		AIR 21, INC.
ASE		ATLANTIC SOUTH EAST
ATI AWA	AIR TRANSPORT INTERNATIONAL AMERICA WEST	
AWA AWS	AMERICA WEST	AIR WISCONSIN
BEX		BUSINESS EXPRESS
BNF	BRANIFF	
BOA	BRITISH OVERSEAS AIRWAYS	
BRT		BRITT AIRWAYS
BWA		BROCKWAY AIR
CAL	CONTINENTAL	
CALX	CANTARTAN	CONTINENTAL EXPRESS
CAN	CANADIAN	CADE AD
CAPE CAR		CAPE AIR CARNIVAL
CAK		CASIO EXPRESS
CCA		CC AIR
CMD		COMMAND AIRWAYS
COM		COMAIR
DAL	DELTA AIR LINES	
DALX		DELTA EXPRESS
DHL	DHL AIR	
EAL	EASTERN AIR LINES	EVENESS ADDINES ONE
EXA FDX	EEDEDAL EVDDESS	EXPRESS AIRLINES ONE
FGS	FEDERAL EXPRESS	FLAGSHIP EXPRESS (AALX)
GULF		GULF
HAL		HAWAIIAN AIR
HNA		HENSON AVIATION
HRA		HORIZON AIR
JSI		JETSTREAM INTERNATIONAL
KAL		KALITTA
MDC		MIDWEST COMMUTER

Part 121 MDX MEX	MEXICANA AIRLINES	Part 121/135 and Part 135 MIDWEST EXPRESS
MEA MPA MSA MST	MEAICANA AIRLINES	MID PACIFIC AIR MESABA AVIATION MIDWEST
NWA NWAX	NORTHWEST AIRLINES	NORTHWEST COMMUTER
OLY	OLYMPIC DANL ANTERICAN	
PAA PAC	PAN AMERICAN	PENNSYLVANIA COMMUTER
PAE PDT		PAN AMERICAN EXPRESS PIEDMONT
PEO	PEOPLE EXPRESS	FIEDMONT
PJX		PRIVATE JET EXPRESS
PNA		PENINSULA AIRWAYS
PVT		PROVINCETOWN
RAM	ROYAL AIR MAROC	
RYA		RYAN AIR
SAP		SIERRA PACIFIC
SIM		SIMMONS AIRLINE (AALX)
SKA		SKYWEST AIR
SKB		SKYBUS, INC.
SSA		STATES WEST AIRLINES
SWA	SOUTHWEST AIRLINES	
SWD		SUN WORLD
SWIS	SWISS AIR	
SYA		SKYWAY AIR
TACA		TEM ENTEDDDICEC
TEM TSR		TEM ENTERPRISES TRANS STATES AIR
TST		TRANS STATES AIR TRANS STATES AIRLINES
TWA	TRANS WORLD	TRAINS STATES AIRLINES
TWAX		TRANS WORLD EXPRESS
TWRA	TOWER AIR	
UAL	UNITED AIRLINES	
UALX		UNITED EXPRESS
UFS		UFS, INC
UTA		ULTRA AIR
VAL		VISCOUNT AIRLINES
VUJ	VALUE JET	
WŚĂ	-	WEST AIR
WWA		WINGS WEST AIRLINES (AALX)
XP1		EXPRESS ONE