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Frequency and Costs of Transport Airplane Precautionary Emergency Evacuations

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16. Abstract	· · · · · · · · · · · · · · · · · · ·			
Precautionary emergency evacuation evaluated. Primary data sources including managers. Additional data were coll. The results revealed that precaution involved an average of 4,759 people escape systems were deployed without incidents were not reported to the formationary emergency evacuation enhanced incident information managemergency evacuations and improve	luded the FAA, NTSB, and lected from airlines, insurance per year. In about 18 per out being reported to the INTSB. administrative overhead, and were estimated to be out agement systems and (b)	ad NASA, as we ance adjusting a as occurred about cent of the income FAA, and appro- and equipment wer \$11 million research target	ell as the records of airp firms, and litigation rec ut 58 times per year, ar idents, aircraft emerger eximately 80 percent of maintenance associated per year, indicating the	cords. and acy such d with at (a)
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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 crewment bers 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.
- 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 precautionary 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 Calso 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.

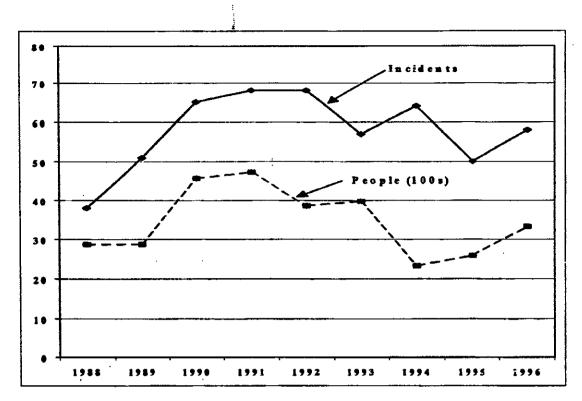


Figure 1. Number of Precautionary Evacuations and Evacuees.

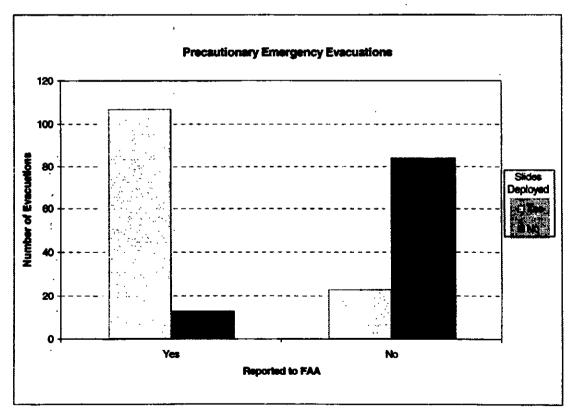


Figure 2. FAA AIDS reporting status when information about slide deployment is known.

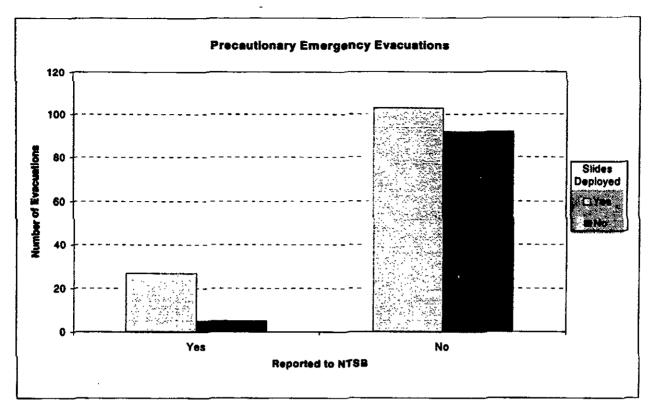


Figure 3. NTSB data system reporting status when information about slide deployment is known.

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 estimate 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:

A = ARSA (NASA) Reports

A1 = 11/19/93 Report No. 3223

A2 = 04/01/96 Report No. 4412

A3 = 12/12/96Report No. 4704

D = Direct contact with airports

D = 1993, 1994 & 1995 contacts

D3 = 1996 contacts

DN = Not reported by airport

DNC = No contact with airport

DNR = No response from airport

FAA = FAA DATA

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

L = Litigation Data

L1 = WESTLAW

L2 = Airline data

M = Media Data

M = Newspapers

M1 = Aviation Safety Week

N = NTSB Reports

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 & 3	15 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	3+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	Domier (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	INJU To	JRY otal	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
2/2/1988	FYV	\$340	EXA	135	24	E	3	N/A	"ENG FAIL, FIRE IN ENG, EVAC"	"DNC,F4"
2/3/1988	BNA	DC9	AAL	121			2	YES	CARGO FIRE	"D,F2,M,N1"
3/20/1988	PDX	B727	DAL	121			0	?	LT MAIN NO XTND	"DN,F1,F2"
3/27/1988	DTW	B727	NWA				24	YES	"APU BACKFIRE, PAX & FA PANIC"	"A1,D3,F1,F2,N2"
3/30/1988	LGA	B737	AAL	121			2	YES	BOMB THREAT	"DNR,F2"
4/7/1988	LAS	B737	SWA				5	YES	"ENGINE FIRE, JETWAY & SLIDES USED"	"D,F1,F2"
4/10/1988	ACY	F27	BEX	121			2	N/A	JMPD CHOCKS ON ENG STRT HIT APU	"DN,F1"
4/15/1988	SEA	F27	HRA		_		3	N/A	FIRE IN RT ENG	"D,F1"
4/17/1988	CLE	18737	CAL				4	YES	SMOKE IN CABIN	"DN,F2"
5/11/1988	STL	DC9	TWA				0	?	"CABIN SMOKE, OIL IN BLEED AIR"	"DN,F1"
5/21/1988	DFW	DC10	AAL				6	YES	"FLPS LT & WARN, ABORTED TAKEOFF"	"D,F1,F2"
5/24/1988	MSY	B737	TAC				1	}	"ENG FAIL, EMERG LONG ON LEVEE"	D
6/12/1988	SEA	B727	ALA	12	=		4	· ?	"WENT OFF RWY, REVERSER PROBLEM"	"DN,F1,F2"
7/10/1988	EWR	B737	CAL				0	YES	SMOKE IN COCKPIT (LEFT CHUTE)	"DN,F2"
7/14/1988	ACY	B727	GUL				0	NO	"FUEL TRUCK FIRE, A/C STAIRS USED"	"DN,F1"
7/20/1988	ORD	F27	;	135			0	N/A	SMOKE IN COCKPIT	D
		DC3	; }	13.			0	3	TWO FLAT TIRES	D
7/21/1988	OND ANG	S227	PNA			E	0	;	OVERHEAT LITE FOR LFT WHEEL WELL	"DNC,F4"
7/27/1988	ANC	3227 B727	TWA			E	0	;	"APU SMOKE, PAX START/PANICKED"	"A1,DN,F1,F2"
8/8/1988 8/9/1988	STL	S226	AMY			E	0	N/A	"RT ENG CHIP DETECTOR ON, IN CLIMB"	"DN,F4"
	STL	3220 B737	UAL		•	E	10	YES	"NRI ENG FAIL, ABORT TAKEOFF"	"D,F1,F2"
8/10/1988	LIT	DC9				E	0	?	LT ENG FIRE ENROUTE PIT/LOU	"DNC,F2"
8/13/1988	HTS		AAA		_	E	2	N/A	"PROP GOV LINK SEP ON TO, RAN OFF RWY"	"DN,F4"
8/16/1988	CLE	\$226	BRT		<i>-</i>	E	6	S SAN	"RT MAIN GR DR, RT MAIN TIRES"	"DN,F2"
8/22/1988	LAS	B737	AAA				7	YES	NO GEAR	"DN,F2"
8/27/1988	ORD	B727	TW/		•		0	N/A	FLAT TIRE	D
9/11/1988	ORD	AT42	?	13	•		1	_	"REV NO DEPLOY, MAINTENANCE"	"A1,DN,F1,F2"
9/12/1988	DEN	DC10	UAL			E	0	YES ?	SMOKE FROM CABIN FLOOR	"DN,F4"
9/14/1988	MEM	S340	EXA		•	E	7	YES	"LT GR NO XTND, FWD CHUTES"	"DN,F1,F2"
9/21/1988	DFW	B727	AAL		-	E	ับ	1E3	APU START TORCH PAX START DAY UNKN	"AI,DN"
10/1/1988	LAX	LRG	?	12		E	0	N/A	NR2 ENG FIRE	"DN,F1"
10/9/1988	IAH	AT42 E110) ACE	12 13		E	0	N/A	FUMES IN CABIN	"DN,F4"
10/24/1988		B727	ASE NW			E	0	NO	"APU EXH FIRE, PAX STARTED EVAC"	"A1,D3,F1,F2"
10/24/1988	-	B747	AIB		•		0	?	"BOMB THREAT, NO BOMB"	D
10/30/198		LRG	, VID	12 12		E	0	NO	"ABORTED TO, ENG FAIL"	"A1,DN"
11/1/1988 11/10/198		JT31	EXA		-	E	0	?	LOST RT MAIN WHEEL ON TO	"DNC,F4"
11/16/198		AT42	}	13	•	_	0	N/A	ENGINE FIRE	D
12/29/198		MD80					0	YES	BOMB THREAT	"DN.F2"
1/17/1989		S227	SKA			E	1	N/A	GAS TRUCK COLL WITH A/C	"DN,F4"
1/20/1989		C440	APA		-	_	5	N/A	"RT ENG PWR LOSS, LT ENG SHUT DOWN"	"DN,F1"
1/20/1989		B737	<i>A</i>	12			ó	?	ENGINE FELL OFF ON TO	D
1/20/1989		B 737	333				0	YES	"APU FIRE, LOOK AT 01/01/89"	"A1,DN,F2"
2/1/1989	yyk PVD	LRG	; vv.	12		E	U	?	"SUSPICIOUS PKG, DAY UNKN"	'Al,DN"
2/5/1989		S360	;	13			0	N/A	LEFT MAIN GEAR PROBLEM	D
	ORI)	DC9	: DAI				0	14/V	NR1 ENG FAILURE	"DN,F1"
2/21/1989		S227	COI			E	0	n/A	SMOKE IN CABIN	"DNC,F4"
2/21/1989		3227 B 727	: :	M 13 12	•	E	0	;	MAIN GEAR PROB	DIO,F4
2/22/1989 3/10/1989	· · · · · · · · · · · · · · · · · · ·	B111	: BNF		-		0	r N/A	FUEL ODOR IN CABIN	"DNC.Fi"
3/14/1989		B727	DAI				7	YES	"FIRE WARN NR2, NO FIRE"	"D,F1"
5/14/1989 4/1/1989	EAX	B737	AAA			E	3	YES	"SMOKE IN CABIN, DAY UNKN"	"A1,D"
4/3/1989	LAX	B767	PD				5	YES	UNAUTH ACC BOMB?	"DN,F1"
4/23/1989		B727	PD					?	"SMOKE, APU"	"DN,F2"
マイムノバ レクロツ	LVI	w, 21		- 14		_	-	•	·	

DATE	AIR PORT	TYPE A/C			CREW		URY	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	Đ
5/18/1989	MWA	S226	VMV	7 135	9	E	0	N/A	"LT PROP CTRL STRIPPED, RAN OFF RWY"	"DNC,F4"
5/24/1989	ORD	DC10	?	121	202	E	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	UAL	X 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	E	0	N/A	"SPARKS/SMOKE PANEL BEHIND PLT, EVAC"	"DN,F4"
7/2/1989	ILM	B737	PDT	121	82	E	0	YES	RT MAIN TIRE	"DN,F2"
7/5/1989	ORD	S360	?	135	34		0	N/A	FLAT TIRE	D
7/9/1989	ORD	B747	?	12	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	E	0	N/A	SMOKE IN CABIN	"DN,F4"
9/5/1989	MCI	S226	VMV.	7 135	9	E	0	N/A	LANDED GEAR UP	"DN,F4"
9/12/1989	ORD	DC9	AAL	121	110		2	YES	"HYD SYS FAIL, LEFT RWY"	"DN,F1"
9/29/1989	SFO	B747	UAL	121	350		0	NO	LOST WHEEL ON LANDING	D
10/1/1989	PHL	MDT	;	121	50	Ē	U	?	"APU FIRE WARN, DAY UNKN"	"A1,DN"
10/1/1989	LGA	LRG	;	121	100	E	U	š	"APU TORCH, DAY UNKN"	"AI,DNR"
10/7/1989	ORD	DC9	AAL	12	52		0	YES	SMOKE LT GR	"A1,DN,F1,F2"
10/14/1989	SLC	B727	DAL	12	19		2	?	"O2 SERV FIRE, PREBOARDING"	"D,M,N1"
10/15/1989	MEM	S340	EXA	12	22		0	N/A	"SMOKE IN CABIN, BROKEN FREON LINE"	"A1,DN,F1"
10/17/1989	V80	DC9	NWA	N 12	104		0	YES	"OVERSHOT RWY, WRONG APT"	"DN,F1,F2"
10/19/1989	FYV	C580	SAP	12	41		0	N/A	SMOKE	"DNC,F1"
10/20/1989	PHX	B727	DAL	121	99	E	1	YES	"FIRE, HYD LINE"	*DN,F2*
10/27/1989	RAP	B737	UAL	12	40		0	YES	"SMOKE IN CABIN, NO FIRE"	"DN,F1,F2"
10/31/1989	SEA	B727	NWA	12	74		0	YES	"APU FIRE, SLIDE MALF, PAX STARTED"	"A1,DN,F1"
11/3/1989	MEI	S340	EXA	12	l 18		0	N/A	SMOKE IN COCKPIT	"DNC,F1"
11/15/1989	PAH	JT31	EXA	135	5 14	E	0	N/A	"REAR CARGO SMOKE LIGHT, EVAC"	"DNC,F4"
11/20/1989	BOS	A300	AAL	12	l 169		6	5	"SMOKE IND LT, NO FIRE"	"D.F1,M"
11/27/1989	LAX	B727	XP1	12	128		3	?	"APU SMOKE, NO FIRE ONLY 18 EVAC"	D
11/29/1989	ATL	B727	EAL	12	53		0	YES	RT MAIN GEAR	"DN,F2,M1"
12/1/1989	CVG	S227	COY	4 13:	5 9	E	0	N/A	"SMOKE IN CABIN, EVAC"	"DN,F4"
12/2/1989	MIA	B727	EAL	12	63		0	YES	SMOKE SMELL (CHUTE & STAIRS)	"DN,F2"
12/29/1989	MCI	S226	AMV	V 135	5 9	E	0	N/A	LANDED W/ GEAR UP	"DN,F4"
12/30/1989		JT31	EXA	135	5 14	E	0	N/A	"FT ENG FIRE WARN, EVAC"	"DNC,F4"
12/30/1989		B737	AWA	12	1 130		10	YES	"FIRE IN WHIL WELL, ELEC/HYD FIRE"	"D3,F1,F2,M1"
1/1/1990	TYS	LRG	?	12	100	E	U	NO	"TIRE, AIR STAIR, DAY UNKN"	"A1,DN"
1/2/1990	BWI	DC10	AAL	12	259		10	YES	SMOKE IN COCKPT	*D,F2,M1*
1/10/1990	BMI	S360	SIM	12	14		0	N/A	SMOKE WARNING CARGO BAY	"DNC,F1"
1/28/1990	TPA	B727	DAL	12	130		1	YES	FIRE	"A1,D,F2"
1/31/1990	ORD	B767	AAA	12	117		1	YES	SMOKE IN COCKPT	*DN,F2*
1/31/1990	SDF	DC9	EAL	121	1 73		2	YES	"LT MG TIRE FIRE, TOWER ADVISED"	"D.F1,F2,M1"
2/18/1990	LAX	L1011	TWA	12	181		5	YES	FIRE LT #2ENG	"A1,D,F2"
3/10/1990	BWI	B737	AAA		116		U	YES	"PT ELEC FAIL, SMOKE"	"DN,F1,F2"
3/13/1990	ATL	DC9	EAL	12	57		0	YES	LOSS HYD PRESS	"DN,F1,F2"
3/17/1990	ICT	B737	CAL	12	130		2	?	"RT ENG FAIL, ABORTED TAKE OFF"	"A1,DNR,F1,F2,M1"
3/17/1990	JFK	AT42	CMI) 12	l 45		0	N/A	SMOKE & FUMES IN CABIN	"DN,F1"
3/26/1990	BOS	L1011	TWA	12	175		6	YES	"FIRE N2&3 ENG, ABORTED TAKEOFF"	"A1,DN,F1,F2,M"
4/2/1990	FSM	JT31	EXA	133	5 14	E	0	N/A	"LFT ENG FIRE WARN, EVAC"	"DNC,F4"
4/2/1990	ORD	B727	?	12	1 99	E	0	?	FLAT TIRE	D
4/9/1990	ORD	B146	?	135			0	N/A	FLAT TIRE	D
4/10/1990	ORD	DC10	;	12	151		0	?	FLAT TIRE	D
4/15/1990	PIT	DC9	AAA	12	1 59		0	YES	"CABIN SMOKE, NO FIRE"	"DN,F1,F2"

DATE	AIR PORT	TYPE A/C			CREW & PAX	-	URY otal	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
4/20/1990	ORD	B727	?	121		E	0	?	FLAT TIRE	D
4/20/1990	MSP	JT31	EXA	135	14	E	0	N/A	NO NOSE GEAR DOWN LIGHT	"DN,F4"
5/8/1990	FAT	S227	SKA	135	9	E	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	E	0	N/A	HYD FAILURE	D
6/11/1990	CVG	B727	DAL	121	69		0	YES	SMOKE	"DN,F2"
6/15/1990	DAY	E110	COM	135	14	E	0	N/A	"RT ENG OIL PRESS, FUEL LEAK, EMERG LDG"	"DN,F4"
6/21/1990	ATL	DC9	EAL	121	67	E	0	?	RT MAIN LNDG GEAR FAILURE ON TO	"DN,Mi"
6/21/1990	CHS	B727	AAA	121	120		4	YES	"ENG FIRE WARN N2, NO FIRE"	"DNR,F1,F2,M1"
7/1/1990	ORD	S360	?	135	32		0	N/A	FLAT TIRE	D
7/1/1990	DEN	WDB	?	121	202	E	U	NO	"TO ABORTED, ENG EXPL W/VIBE & YAW"	"A1,DN"
7/4/1990	DEN	A300	CAL	121	179	E	0	?	ABORTED TO	"DN,M1"
7/6/1990	ORD	B146	?	135	79		0	N/A	FLAT TIRE	Ð
7/13/1990	ORD	B727	;	121	72		0	?	"LT MAIN GEAR, DOOR FAILURE"	D
7/13/1990	ORD	B146	?	135	104		0	N/A	FLAT TIRE	D
7/21/1990	ORD	S360	?	135	16		0	N/A	FLAT LEFT TIRE	D
7/22/1990	ISO	B737	AAA	121	27		2	YES	"NOSE GR FAILED, ABORTED TAKE OFF"	"D,F1"
7/25/1990	ORD	S360	?	135			0	N/A	FLAT TIRE	D
7/29/19 9 0	JFK	DHC7	PAE	135			0	N/A	NOSE GEAR COLLAPSE	D
8/1/1990	LAX	B747	UAL	121		E	U.	;	"PAX INJURIES, DATE UNKN"	"DN,M"
8/2/1990	MEM	B727	FDX			E	2	YES	APU FIRE	"DN,F1"
8/12/1990	BZN	B 727	CAL	121			2	YES	"LOST FWR 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	NIA	SWOKE 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	MW			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 9/9/1990	ELK LGA	DC9 B727	AAL TWA	121 121			0 4	YES YES	"POSS BOMB THRT, NO BOMB"	*DN,F1,F2*
9/15/1990	GTF	B727	NW/				9	?	"APU TORCHING, PAX STARTED" "ENG FIRE WARN, NO FIRE"	"DNR,F2,N2"
9/19/1990	DEN	B737	UAL				2	; }	A/C OVERHEATED	"DN,F1,F2"
9/28/1990	DTW	B727	NW/				6	YES		"A1,DN,F1"
10/11/1990		B727	}	121			0	;	NOSE GEAR PROB	"A1,D3,F1,F2,M1,N2"
10/15/1990		DC9	TWA				0	YES	HI TMP LT TAIL	D "DN,F1,F2"
10/16/1990		B727	DAL				2	YES	"PWR LOSS N2 ENG, ABRTD TO"	*A1,DN,F1,F2*
10/18/1990		1900	SSA	135		E	1	N/A	"ENG EXH STACK FIRE, EVAC"	*DNR,F4*
10/26/1990		DC9	NWA			E	Ū	?	"SMOKE IN CKPT, ELEC SMOKE"	"DN,F1"
10/30/1990		S227	WW.			E	0	N/A	FIRE WARN RT ENG	"DNC,F4"
11/2/1990	PIT	DC9	AAA	121		_	0	?	RT HYD SYS LOST	"DN,F1"
11/5/1990	ORD	S360	?	135			0	N/A	FLAT TIRE	D
11/24/1990		S360	?	135		E	0	N/A	"FLAT TIRE, LEFT MAIN"	D
12/5/1990	DTW	B727	NWA				2	NO	"FIRE RT WHEEL & APU, USED JETWAY"	"A1,DN,F1,F2"
12/26/1990		MD88	DAL	121	100		2	YES	FIRE NR2 ON START UP	"A1,D,F1,F2"
1/1/1991	ORD	S360	?	135			0	N/A	FLAT TIRE	D
1/3/1991	DSM	B727	AAL	121			3	YES	SMOKE IN CABIN	*D,F1,F2,L2*
1/6/1991	ORD	S360	?	135		E	0	N/A	FLAT NOSE TIRE	D,1 3,2 2,122
1/7/1991	MCI	B737	UAL	121			1	YES	"A/C OFF RWY, ICE ON TAKE OFF"	"DN,F1,F2,L2"
1/17/1991	SFO	JT32	WSA	121	14	E	0	NIA	CARGO FIRE WARN LIGHT	"DN,F1"
1/18/1991	ORD	S360	?	135	33		0	N/A	FLAT TIRE	D
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DATE	AIR PORT	TYPE A/C			CREW & PAX	_	JRY 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	į	135	5		0	N/A	FLAT LEFT MAIN TIRE	D
1/24/1991	ORD	AT42	?	135	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	STAT 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	E	0	N/A	LEFT LAV SMOKE DET	"DN,F4"
3/12/1991	PBI	E110	СОМ	139	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.	123	. 33		0	YES	FIRE LT ENG	"DN,F2"
4/9/1991	DCA	DC9	NWA	121	104		0	2	BLOWN TIRES	"DN,F1,F2"
4/17/1991	ORD	18727	?	121			0	?	BLOWN TIRES	D
5/4/1991	EWR	B146	CAN	121			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		E	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	121			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	5.07	121		E	U	3	BLEW TIRE ON TO	"AI,DN"
7/1/1991	BUF	LRG	?	12	-	E	U	?	"FIRE # 1 ENG, DATE UNKN"	"A1,DNR"
7/1/1991	DFW	LRG	: ?	12		E	U	: ?	"LOUD BANG, TO ABORTED, DATE UNKN"	"A1,DN"
7/13/1991	LAX	DC10	AAL	12		E	12	YES	"ENG FIRE WARN, NO FIRE"	*D,F1,F2,M,M1*
7/17/1991	PIA	AT42	TST	12			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	12:			2	YES	"CABIN SMOKE, ELEC SMOKE"	D,F1,E2,M "D.F1,F2,L2"
8/12/1991	STL	JT32	TST	135	-	E	0	1E3	HYD PRESS SUPPLY PIPE FAILED	D,F1,F2,L2 "DN,F4"
8/21/1991	SBP	JT32	WW/			E	0	n/a	"BAG POD SMOKE WARN LGT, EVAC"	
8/22/1991	SEA	B747	NWA			£		YES		"DNC,F4"
8/26/1991	LYH	DHC8					13 0	N/A	"ENG FIRE #4, #5L SLIDE INOP" NR1 FIRE WARN LIGHT	"D,F1,F2"
9/1/1991	MDW	DC9	MWA		-	E	U	NO NO	"LT ENG FIRE, USED FRONT DOOR & STAIR"	"DNC,F1"
9/1/1991	DTW	LRG				E	U		,	"A1,DN,F±"
9/7/1991	ORD	B747	?	12	=	E	U) }	"APU FLASH, PAX STARTED DAY UNKN"	"A1,DN"
			; ;	121		E		NO	HAZARDOUS MATERIALS SPILL	D
9/12/1991	MSP	S227	MSA	13:		E E	0	N/A	"SMOKE IN CABIN, EVAC"	"DN,F4"
9/13/1991	CVG	\$227	COM			E	0	N/A	SMOKE IN CABIN	*DN,F4*
9/14/1991	MKG	AT42	SIM	12			2	NA	SMOKE IN CABIN	"DNC,F1,M1,N3"
9/20/1991	DEN	B727	CAL	12			0	NO	"STUCK GEAR, REAR STAIRS"	"DN,F2"
9/23/1991	ORD	S360	?	13			0	N/A	FLAT TIRE	D
9/28/1991	BOS	MD80		12			2	YES	SMOKE (STAIRS & CHUTES)	"A1,DN,F2,M1,N3"
10/3/1991	DFW	DC9	AAL	12			0	;	"ODOR IN CABIN, ELECTRICAL"	"DN,F1"
10/4/1991	STL	MD80		12		_	0	2	"TAILCONE SEPRATE, A/C TOWED"	D
10/8/1991	CVG	E120	СОМ			E	0	N/A	"ELEC SMOKE ODOR, EVAC"	"DN,F4"
10/16/1991		B737	AAL	12:			8	?	"GRND COLLISION, WITH CAL"	*D,L2,M1*
10/16/1991		MD80		12			19	5	"GRND COLLISION, WITH AAL"	"D,MI"
10/24/1991		ATP	?	13:		_	0	N/A	FIRE WARNING LIGHT	Đ
10/31/1991	. ?	MD11	;	12	1 199	E	U	YES	CALIF/MCDD @ CERT TEST-TWICE	M

PORT AC	DATE	AIR	TYPE			CREW	-			WHY EVACUATED AND REMARKS	DATA SOURCES
	******	PORT	A/C						USED?		
MINISTED LAX											
							E				-
1211/1991 DFW WDB 2 121 120 121 145 1 2 2 2 2 2 2 2 2 2											
1271191						•		-		*	
12/21/1991							E				
		_									
	-						_	-	-	::	
HIVINGS			-					-		· · · · · · · · · · · · · · · · · · ·	- · •
11/1992											
MIA			-					-			
		_						_			
1712/1992 BVT								=		-	•
Display DCA METL AAAX 135 9 0 N/A RAN OFF RWY D DISPLAY TO DISPLAY T						-	E	_			
178/1992 ELM DC9 AAA 121 41 2 ? ** ** ** ** ** ** ** ** ** ** ** ** *								_			"D,F1"
210(1992 SFO B727								-			D
216/1992 LEX											"D,F1,M1"
222/1992 LGA A320 NWA 121 134 4 YES "SMOKE IN CABIN, NO FIRE" "ALDNR, FI, F2" 222/18992 DTW DC9 NWA 121 445 1 YES ODOR, IN CABIN, CHUTES & JETWAY "ALDNR, FI, F2" 32/1992 ORD DC10 ? 121 189 0 ? "BLOWN TIRES, THREE RT MAIN GEAR" "D.M1" 33/1992 ORD DC10 ? 121 189 0 ? "BLOWN TIRES, THREE RT MAIN GEAR" "D.M1" 31/19992 DFW 8737 DAL 121 68 0 N/A "SMOKE IN COCKPIT, OIL LEAK #1 ENG" "D.F1" 32/20/1992 MILU JT31 EXA 135 14 E 0 N/A "SMOKE IN COCKPIT, OIL LEAK #1 ENG" "D.F1" 32/21/1992 ORD DC10 ? 121 230 0 N/A "SMOKE IN COCKPIT, OIL LEAK #1 ENG" "D.F1" "D.F1.F2, L2" 32/21/1992 ORD DC10 ? 121 230 0 N/A "SMOKE IN COCKPIT, OIL LEAK #1 ENG" "D.F1.F2, L2" "D								_			"D,F2"
2726/1992 DTW DC9 NWA 121 45			_	-			E	-			"DNC,F4"
3/1/1992 PIT WDB ? 121 202 E U ? ELEC SYS FAIL "ALDN" 3/3/1992 ORD DC10 ? 121 189 0 ? "BLOWN TIRES, THREE RT MAIN GEAR" "D,MI" 3/3/1992 ORD ATP AWS 135 32 0 N/A "SMOKE IN COCKPIT, OIL LEAK #1 ENG" "D,FI" 3/19/1992 ORD ATP AWS 135 14 E 0 N/A "SMOKE IN COCKPIT, OIL LEAK #1 ENG" "D,FI" 3/2/1992 ORD DC10 ? 121 230 0 ? "A/C OFF RW/, STUCK IN MUD" D 3/2/1992 ORD DC10 ? 121 230 0 ? "A/C OFF RW/, STUCK IN MUD" D 3/2/1992 ORD DC10 ? 121 230 0 ? "A/C OFF RW/, STUCK IN MUD" D 3/2/1992 ORD DC10 ? 121 230 0 ? "A/C OFF RW/, STUCK IN MUD" D 3/2/1992 ORD DC10 ? 121 230 0 ? "A/C OFF RW/, STUCK IN MUD" D 3/2/1992 ORD DC10 ? 121 230 0 NO "SMOKE LIFIT ON IN ELT, EVAC" "DNC,F4" 3/2/1992 SFO B727 DAL 121 299 E 0 NO "SMOKE CAPU" "D,FI,F2,12" 4/13/1992 SFO B747 UAL 121 377 9 ? "SMOKE OCCKPIT, JETWAY & REAR STARS" "A2,DN,F2" 4/13/1992 AZO JT31 JSI 135 14 E 0 N/A "STRUCK DEER ON LDING, ENG FLAMES" "DNC,F4" 4/13/1992 MEM S340 NWAX 135 6 0 N/A "STRUCK DEER ON LDING, ENG FLAMES" "DNC,F4" 4/13/1992 DBQ S360 SIM 121 26 0 N/A "LEFT TWY, SANK IN MUD" "DNC,F4" 4/13/1992 JFK L1011 DAL 121 175 7 ? FIRE NR2 & 3 ENGINES 4/13/1992 LGA B727 AAA 121 44 0 VES ENG FIRE NR1 ? LGA 04/01/92 "ALDNR,F1" 4/13/1992 LGA B727 AAA 121 142 9 YES "HOF FRE NR1 ? LGA 04/01/92 "ALDNR,F1" 5/8/1992 RIC B146 BEX 121 26 1 VES ENG FIRE NR1 ? LGA 04/01/92 "ALDNR,F1" 5/8/1992 RIC B146 BEX 121 26 1 VES ENG FIRE NR1 ? LGA 04/01/92 "ALDNR,F1" 5/8/1992 RIC B146 BEX 121 26 1 VES ENG FIRE NR1 ? LGA 04/01/92 "ALDNR,F1" 5/8/1992 RIC B146 BEX 121 26 1 VES ENG FIRE D 5/13/1992 LAX B767 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F1" 5/8/1992 FIR B777 CAL 121 141 E 3 YES "BOMB, NO BOMB" "DN,F1" 5/8/1992 RIC B146 BEX 121 26 I VES SHOKE IN CABIN, TAKE OFF ABORTED" "DN,F1" 5/8/1992 RIC B146 BEX 121 26 I P N/A "ENG FIRE WARN "DN,F2" 5/13/1992 DCA DC9 ATP ? 135 27 ON NA BLOWN TIRES, STARIFNOD D 5/8/1992 PFN B777 CAL 121 141 E 3 YES "BOMB THREAT "DD,2" 5/8/1992 RIC B146 BEX 121 158 B O N/A "BLOWN TIRES, STARIFNOD D 5/8/1992 ORD FIRO ? 135 18 O N/A "LEFT TWAN BRAKES SPARKING D 5/										• -	"A1,DNR,F1,F2"
373/1992 ORD DC10 Page										-	"A2,DN,F1,F2"
214/1992 DFW B737 DAL 121 68 0 ? "APU FIRE WARN, NO FIRE" "AL, DN, F1" 3/19/1992 ORD ATP AWS 135 32 0 N/A "SMOKE IN COCKPIT, OIL LEAK 1 ENG" "D, F1" "D, F1" 3/20/1992 ORD DC10 ? 121 220 0 ? "A/C OFF RWY, STUCK IN MUD" D D 3/21/1992 ORD DC10 ? 121 220 0 ? "A/C OFF RWY, STUCK IN MUD" D D, F1, F2, L2" J/20/1992 ORD DC10 RD88 DAL 121 29 3 YES "CABIN SMOKE, APU" "D, F1, F2, L2" J/20/1992 SOS B747 DAL 121 99 E 0 N/O "A/C BKD OFF PAYMINT, USED A/C STAIRS" D D J/20/1992 SFO B747 UAL 121 377 9 ? "SMOKE, OCKPIT, JETWAY & REAR STAIRS" "A2, DN, F2" 41/21/1992 SFO B747 UAL 121 377 9 ? "SMOKE, OLI IN APU DUCT" "DN, F1" "DN, F1" "A1/41/1992 AZO J731 JS1 155 14 E 0 N/A "STRUCK DEER ON LONG, ENG FLAMES" "DN, CF4" 41/31/1992 ORD DHC8 2 135 34 E 0 N/A "STRUCK DEER ON LONG, ENG FLAMES" "DN, CF4" 41/31/1992 DBQ S360 SIM 121 26 0 N/A "LEFT TWY, SANK IN MUD" "DN, CF1" 41/31/1992 DBQ S360 SIM 121 175 7 ? FIRE NR2 & 3 ENGINES "DN, F1, L2" 41/31/1992 CVG S227 COM 155 9 E 0 N/A "LOST OIL PRESS, FLAMES FRM AIR RITAKE" "DN, F4" 41/21/1992 LGA B727 AAA 121 142 9 YES ENG FIRE NR1 LGA 04/01/192 "A1, DNR, F2" 41/21/1992 RIC B166 BEX 121 126 1 YES ENG FIRE NR1 LGA 04/01/192 "A1, DNR, F2" 51/31/1992 KIC B166 BEX 121 126 0 N/A RT ENG FIRE WARN "DN, F1" "DN, F1" 51/31/1992 CLT S360 CCA 121 19 0 N/A RT ENG FIRE WARN "DN, F1" 51/31/1992 CLT S360 CCA 121 126 0 N/A RT ENG FIRE WARN "DN, F1" "DN, F1" 51/31/1992 KIC B166 BEX 121 126 0 N/A RT ENG FIRE WARN "DN, F1" "DN, F1" 51/31/1992 CLT S360 CCA 121 121 34 3 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "DN, F1" 51/31/1992 CLT S360 CCA 121 126 0 N/A SAME FIRE WARN "DN, F2" SMOKE IN CABIN, TAKE O	•						E				"A1,DN"
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 LIFHT ON IN FLT, EVAC" "DNC,F4" 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,F1,F2,L2" 3/28/1992 MC1 MD80 AAL 121 76 0 NO "A/C BKD OFF PAVMNT, USED A/C STAIRS" D 3/29/1992 BOS B727 DAL 121 99 E 0 NO "SMOKE COCKPIT, JETWAY & REAR STAIRS" "A2,DN,F2" "4/13/1992 SFO B747 UAL 121 377 9 ? "SMOKE COCKPIT, JETWAY & REAR STAIRS" "A2,DN,F2" "4/13/1992 AZO JT31 JS1 135 14 E 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DNC,F4" "4/15/1992 DBQ 3360 SIM 121 26 0 N/A "EIRE ON AIRCRAFT, BRAKE LINING" D "4/15/1992 DBQ 3360 SIM 121 26 0 N/A "LOST OIL PRESS,FLAMES FRM AIR INTAKE" "DN,F4" "4/21/1992 JGA B727 AAL 121 175 7 ? FIRE NR2 & 3 ENGINES "DN,F1,L2" "4/12/1992 JGA B727 AAL 121 142 9 YES "HYD FAIL FAA 04/22/99" "D,F1,F2,L2" "5/19/1992 LGA B727 AAL 121 142 9 YES "HYD FAIL FAA 04/22/99" "D,F1,F2,L2" "5/19/1992 SFO B737 SWA 121 82 E 2 YES "BOMB, NO BOMB" "DN,F1" "DN,F2" "5/26/1992 ATL L1011 DAL 121 158 0 ? BOMB THREAT "D,F2" "DN,F2" "5/26/1992 DCA DC9 AAA 121 46 3 YES "BMOME IN CABIN, TAKE OFF ABORTED" "D,F2,E2,L2" "5/19/1992 SFO B737 SWA 121 82 E 2 YES "BOMB THREAT "D,F2" "DN,F2" "DN,F2" "5/26/1992 DCA DC9 AAA 121 166 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,E2,L2" "5/19/1992 SFO B737 SWA 121 82 E 2 YES "BOMB THREAT "D,F2" "DN,F2" "DN,F2" "5/26/1992 DCA DC9 AAA 121 166 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,E2,L2" "5/19/1992 SFO B737 SWA 121 82 E 2 YES "BOMB THREAT NO BOMB" "DN,F2"								0	?	"BLOWN TIRES, THREE RT MAIN GEAR"	"D,M1"
3/20/1992 MLU JT31 EXA 135 14 E 0 N/A *POD SMOKE LIFHT ON IN FLT, EVAC" *TONC,F4" 3/21/1992 ORD DC10 ? 121 230 0 ? "A/C OFR RWY, STUCK IN MUD" D 3/22/1992 CVG MD88 DAL 121 29 3 YES "CABIN SMOKE, APU" "D,F1,F2,L2" 3/28/1992 MC1 MD80 AAL 121 76 0 NO "A/C BKD OFF RAVANTI, USED A/C STAIRS" D D 3/29/1992 BOS B727 DAL 121 377 9 ? "SMOKE, COCKPIT, JETWAY & REAR STAIRS" "A2,DN,F2" 4/13/1992 SFO B747 UAL 121 377 9 ? "SMOKE, OIL IN APU DUCT" "DN,F1" 4/13/1992 MEM S340 NWAX 135 14 E 0 N/A "STRUCK DER ON LDNG, ENG FLAMES" "DNC,F4" 4/14/1992 MEM S340 NWAX 135 6 0 N/A "STRUCK DER ON LDNG, ENG FLAMES" "DNC,F4" 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 N/A "LEFT TWY, SANK IN MUD" "DN,F1,E2" 4/12/1992 LGA B727 AAA 121 44 0 YES ENG FIRE NR1 ? LGA 04/01/92 "A1,DNR,F2" "DN,F4" 4/12/1992 TFA B727 AAL 121 142 9 YES "HYD FALL FAA 04/22/93" "D,F1,F2,L2" "D,F1,F2,L2" "S/19/1992 RIC B146 BEX 121 26 1 YES ENG, FIRE D D D,F1,F2,L2" S/19/1992 SFO B737 SWA 121 82 E 2 YES "BOMB, NO BOMB" "DN,F2" "D,F2" S/12/1992 ATL L1011 DAL 121 158 0 ? BOMB THREAT "D,F2" "DN,F2" S/12/1992 ATL L1011 DAL 121 166 E 1 ? "SMOKE IN CABIN, FAKE OFF ABORTED" "DN,F2" S/12/1992 ORD S360 ? 135 89 0 N/A BRAKE FAILURE D DN,M1" S/19/1992 ORD S360 ? 135 89 0 N/A BRAKE FAILURE D DN,M1" S/19/1992 ORD S360 ? 135 89 0 N/A FLAT TIRE D D S/12/1992 ORD S360 ? 135 89 0 N/A FLAT TIRE D D,F2" S/19/1992 ORD S360 ? 135 89 0 N/A FLAT TIRE D D S/19/1992 ORD S360 ? 135 89 0 N/A F								0		"APU FIRE WARN, NO FIRE"	"A1,DN,F1"
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" TD, F1, F2, 12" J78/1992 MCI MD80 AAL 121 76 0 NO "A/C BKD OFF PAVMNT, USED A/C STAIRS" D. F1, F2, 12" J78/1992 BOS B727 DAL 121 39 E 0 NO "SMOKE COUPTT, JETWAY & REAR STAIRS" "A2, DN, F2" "41/21/392 SFO B747 UAL 121 377 9 ? "SMOKE, OIL IN APU DUCT" "DN, F1" "DN, F1" "41/31/3992 AZO J731 JS1 J35 14 E 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DN, F1" "A2, DN, F1" "41/31/3992 MEM S340 NWAX 135 6 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DN, C, F4" "41/31/3992 MEM S340 NWAX 135 6 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DN, C, F4" "41/31/3992 DBQ S360 SIM 121 26 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DN, C, F1" "41/31/3992 JFK L1011 DAL 121 175 7 ? FIRE NR2 & 3 ENGINES "DN, F1, L2" "41/31/3992 JFK L1011 DAL 121 175 7 ? FIRE NR2 & 3 ENGINES "DN, F1, L2" "41/31/3992 JFK L1011 DAL 121 142 9 YES "HYD FAIL, FAA 04/22/93" "D, F1, F2, L2" "57/1992 TPA B727 AAA 121 44 0 YES ENG FIRE NR1 ? LAG 04/01/92 "A1, DNR, F2" "41/21/3992 TPA B727 AAL 121 34 3 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D, F2, M1, L2" "51/31/3992 LAX B767 DAL 121 34 3 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "D, F2, M1, L2" "51/31/3992 DCA DCS AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN, F2" "51/31/3992 DCA DCS AAA 121 68 E 1 ? "SMOKE IN CABIN, EVAC" "DN, M1" "DN, F2" "51/31/3992 DCA DCS AAA 121 68 E 1 ? "SMOKE IN CABIN, EVAC" "DN, M1" "DN, F2" "51/31/3992 DCA DCS AAA 121 68 E 1 ? "SMOKE IN CABIN, EVAC" "DN, F2" "DN, F2" "51/31/3992 DCA DCS AAA 121 68 E 1 ? "SMOKE IN CABIN, EVAC" "DN, F2" "DN, F2" "51/31/3992 DCA	-				135	32		0	N/A	"SMOKE IN COCKPIT, OIL LEAK #1 ENG"	_ ·
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 PAYMINT, USED A/C STAIRS" D 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,F1" 4/13/1992 AZO JT31 JSI 135 14 E 0 N/A "STRUCK DEER ON LDING, ENG FLAMES" "DNC,F4" 4/14/1992 MEM S340 NWAX 135 6 0 N/A "STRUCK DEER ON LDING, ENG FLAMES" "DNC,F4" 4/15/1992 DBQ S360 SIM 121 26 0 N/A "FIRE ON AIRCRAFT, BRAKE LINING" D 4/15/1992 JBQ 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 N/A "LOST OIL PRESS,FLAMES FRM AIR INTAKE" "DN,F4" 4/12/1992 TPA B727 AAA 121 44 0 YES ENG FIRE NR1 ? LGA 04/01/92 "A1,DNR,F2" 4/12/1992 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 ENG, FIRE 5/13/1992 LXX B767 DAL 121 84 3 YES "SMOKE, IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/24/1992 MSY B757 AAL 121 158 0 ? BOMB THREAT "D,F2" 5/24/1992 MSY B757 AAL 121 158 0 ? BOMB THREAT "D,F2" 5/24/1992 MSY B757 CAL 121 241 E 3 YES "BOMB, NO BOMB" "DN,F2" 5/24/1992 ATL L1011 DAL 121 158 0 ? BOMB THREAT "D,F2" 5/24/1992 ATL L1011 DAL 121 166 E 1 ? "SMOKE IN CABIN, EVAC" "DN,F2" 5/24/1992 ATL L1011 DAL 121 168 E 1 ? "SMOKE IN CABIN, EVAC" "DN,F2" 5/24/1992 TRA B77 CAL 121 241 E 3 YES "BOMB THREAT "D,F2" 5/24/1992 ATL L1011 DAL 121 166 E 1 ? "SMOKE IN CABIN, EVAC" "DN,F2" 5/24/1992 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/19/1992 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/19/1992 STL DC9 S360 ? 135 18 0 N/A LEFT MAIN BRAKES SPARKING D 7/124/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 8/1/1992 CLT LTT ? 135 100 E U N/A "CARCO SMOKE LIGHT, DAY UNKN" "A2,DN,F2"			JT31	EXA	135	14	E	0	N/A	"POD SMOKE LIFHT ON IN FLT, EVAC"	"DNC,F4"
3/28/1992 MCI MD80 AAL 121 76 0 NO "A/C BKD OFF PAYMNT, USED A/C STAIRS" D 3/28/1992 BOS 8727 DAL 121 99 E 0 NO "SMOKE COCKPIT, JETWAY & REAR STAIRS" "A2,DN,F2" 4/12/1992 SFO B747 UAL 121 377 9 ? "SMOKE COCKPIT, JETWAY & REAR STAIRS" "A2,DN,F2" 4/13/1992 AZO JT31 JSI 135 14 E 0 N/A "STRUCK DEER ON LDNG, ENG FLAMES" "DN,F1" 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 as JENGINES "DN,F1,12" 4/18/1992 CVG S227 COM 135 9 E 0 N/A "LOST OIL PRESS, FLAMES FRM AIR INTAKE" "DN,F4" 4/12/1992 LGA B727 AAA 121 44 0 YES ENG FIRE NR1 ? LGA 04/01/92 "A1,DNR,F2" 4/12/1992 TPA B727 AAL 121 142 9 YES "HYD FAIL, FAA 04/22/3" "D,F1,F2,L2" 5/6/1992 RIC B146 BEX 121 26 1 YES ENG, FIRE 5/13/1992 LAX B767 DAL 121 84 3 YES "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F1" 5/14/1992 MSY B757 AAL 121 186 E 1 YES ENG, FIRE 5/14/1992 MSY B757 AAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1	= :			?	121	230		0	?	"A/C OFF RWY, STUCK IN MUD"	D
3/29/1992 BOS B727 DAL 121 99 E 0 NO "SMOKE COCKPIT, JETWAY & REAR STAIRS" "A2,DN,F2"								3			*D,F1,F2,L2*
4/12/1992 SFO B747 UAL 121 377 9 ? "SMOKE, OIL IN APU 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 3340 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 3360 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 \$227 COM 135 9 E 0 N/A "LOST OIL PRESS,FLAMES FRM AIR INTAKE" "DN,F4" 4/12/1992 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,F1,F2,L2" 5/7/1992 CLT \$360 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" 5/26/1992 DCA DC9 AAA 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "DN,F2" 5/26/1992 FN B777 CAL 121 241 E 3 YES "BOMB THREAT "D,F2" 5/26/1992 ATL L1011 DAL 121 186 E 1 ? "SMOKE IN CABIN, EVAC" "DN,M1" 6/14/1992 FN B777 CAL 121 241 E 3 YES "BOMB THREAT, NO BOMB" "DN,F2" 7/16/1992 STL DC9 TWA 121 70 0 ? "BLOWN THREAT, NO BOMB" "DN,F2" 7/16/1992 STL DC9 TWA 121 70 0 ? "BLOWN THREAT, NO BOMB" "DN,F2" 7/12/1992 STL DC9 TWA 121 70 0 ? "BLOWN THREAT, NO BOMB" "DN,F2" 7/12/1992 ORD S360 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 8/11/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN," 8/31/1992 STL DC9 S360 ? 135 33 0 N/A LEFT MAIN BRAKES SPARKING D 8/11/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN," 8/31/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,"	-				121	76		0		"A/C BKD OFF PAVMNT, USED A/C STAIRS"	D
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 "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 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 "HTD 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 ENG, FIRE 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" 5/26/1992 MSY B757 AAL 121 186 E 1 ? "SMOKE IN CABIN, TAKE OFF ABORTED" "D,F2,Z 5/26/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,M1" 6/21/1992 FFN B777 CAL 121 186 E 1 ? "SMOKE IN CABIN, EVAC" "DN,M1" 6/21/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/16/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE D 7/16/1992 ORD ATP ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 7/24/1992 ORD S360 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 8/11/29/1992 ORD S360 ? 135 89 0 N/A FLAT TIRE 8/31/1992 STL B727 TWA 121 99 E 0 N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN,F2" 8/31/1992 STL B727 TWA 121 99 E 0 N/A "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"							E	_	NO	_	"A2,DN,F2"
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 NR 2 & 3 BNGINES "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 NR 1? 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 ENG, FIRE 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 "BOMB THREAT" "D,F2" 5/26/1992 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" 6/2/1992 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/24/1992 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 S360 ? 135 18 0 N/A LEFT MAIN TIRE D 8/11/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN,F2"										-	"DN,F1"
4/15/1992 ORD DHC8 ? 135 34 E 0 N/A "FIRE ON AIRCRAFT, BRAKE LINING" D 4/15/1992 DBQ \$360 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 \$227 COM 135 9 E 0 N/A "LOST OIL PRES,FLAMES FRM AIR INTAKE" "DN,F4" 4/21/1992 LGA B727 AAA 121 142 9 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 \$360 CCA 121 19 0 N/A RT ENG FIRE WARN "DN,F1" 5/8/1992 RIC B146 BEX 121 26 1 YES ENG. FIRE 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" 6/21/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 6/21/1992 FFN 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 7/24/1992 ORD F100 ? 135 89 0 N/A LEFT MAIN BRAKES SPARKING D 8/1/1992 ORD 5360 ? 135 18 0 N/A FLAT TIRE 8/3/1992 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"			=	-			£	-			"DNC,F4"
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 N/A "LOST OIL PRESS,FLAMES FRM AIR INTAKE" "DN,F4" 4/12/1992 LGA B727 AAA 121 44 0 YES ENG FIRE NR1 ? LGA O4/01/92 "AI,DNR,F2" 4/12/1992 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 ENG, FIRE 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 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 STL DC9 TWA 121 70 0 ? "BLW RT GR 2 TRS, A/C TOWED" D 7/24/1992 ORD ATP ? 135 27 0 N/A BRAKE FAILURE 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 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"			_								"A2,D"
4/16/1992 JFK L1011 DAL 121 175 7 ? FIRE NR2 & 3 ENGINES "DN,F1,L2" 4/18/1992 CVG \$227 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 \$360 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 5/26/1992 DCA DC9 AAA 121 67 E U NO "ENG START/TORCH, STAIRS/BUS" "DN,F2" 6/21/1992 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 7/24/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 7/25/1992 ORD S360 ? 135 18 0 N/A FLAT RIGHT MAIN TIRE D 8/11/1992 CLT LTT ? 135 100 E U N/A "CARGO SMOKE LIGHT, DAY UNKN" "A2,DN" 8/31/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"							E	0		, <u></u>	D
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5/7/1992 CLT \$360 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" 5/13/1992 SFO B737 SWA \$121 \$2 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, TAKE OFF ABORTED" "DN,F2" 6/1992 ATL L1011 DAL \$121 186 E \$1											
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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"											
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7/25/1992 ORD \$360 ? 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"											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"											D
8/3/1992 STL B727 TWA 121 99 E 0 NO "BLOWN TIRES, STAIRS/BUS" "A2,DN,F2"							_				
											"A2,DN"
WIN BIA6 BEX 121 Z6 2 N/A ENG FIRE WARNING "DN,F1"							E				
	8/5/1992	RIC	B146	BEX	121	26		2	N/A	ENG FIRE WARNING	"DN,F1"

DATE	AIR PORT	TYPE A/C			CREW		URY Total	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		Û	?	"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,FI"
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	E	Ū	•	"ELEC FAIL, BLOWN TIRES"	"AI,DN"
10/12/1992	PIT	B73 7	AAA	121	136		0	?	"ENG FAIL NR2, ABORTED TAKE OFF"	"A1,DN,F1,F2,M1"
10/17/1992	RIC	B73 7	AAA	121	24		0	NO	"SMOKNG STARTER, EXIT DOOR USED"	D
11/2/1992	ORD	B747	?	121	272		0	ڊ	BLOWN TIRES	D
11/8/1992	JFK	B767	UAL	121	58		Ō	NO	"SUSPCT BOMB, STAIRS USED"	D
11/18/1992	DTW	S227	MSA	135	9	E	0	N/A	"SMOKE IN CABIN, EVAC"	"DN,F4"
11/27/1992	ORD	B737	DAL	121	123	_	11	NO	"APU SMOKE, PAX START"	"DN,F2,N3,L2"
12/30/1992	ORD	AT42	?	135	24		0	N/A	SMOKE IN #1 ENGINE	D11,F2,N3,L2
1/1/1993	OKC	B737	CAL	121	108		0	NO	"SLID OFF TWY, PORT AIR STAIRS USED"	D
1/2/1993	DEN	DC9	MDX	121	47		0	?	"OVERAN RWY, LOST PT OF ENG"	D
1/10/1993	DFW	DC9	AAL	121	89		5	YES	Maria 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DN,F2,F3,L2,M1,N3*
1/10/1993	DEN	MD80	CAL	121	106		4	YES	HARD LANDING	"DN,F2"
1/11/1993	RIW	1900	BRT	121	14	E	0	N/A	WHITEOUT OFF RWY HIT DITCH	"DNC.F3"
1/15/1993	BFL	B737	UAL	121	114		2	?	"SMOKE IN COCKPIT, NO FIRE"	"DNC,F1,F2,F3,L2"
1/20/1993	DSM	B 727	AAL	121	99	E	0	?	"MISALIGN RWY, LOW RVR"	D
2/1/1993	IAH	B727	UTA	121	19		0	YES	"APU FIRE, SMOKE/NO FIRE"	"DN,F1,F2,F3"
2/10/1993	PBI	B737	UAL	121	103		0	?	JET FUEL LEAK	D
2/11/1993	DSM	DC9	TWA	121	67	E	0	?	"WENT OFF TWY, LOW RVR"	D
2/19/1993	DEN	B757	DAL	121	141		0	?	BOMB THREAT	D
2/19/1993	SJC	B737	DAL	121	61		0	?	BLOWN TIRE	"D,F3"
2/22/1993	BOS	S340	BEX	121	24	E	4	?	LANDED WITH NOSE GEAR RETRACTED	"DN,F3"
2/24/1993	ORD	B737	UAL	121	82	E	1	YES	"HOT START,PAX START"	"A1,DN,F2,F3,L2"
2/24/1993	FLL	B757	DAL	121	183		0	NO	"BLEW 4 MAIN TIRES,NOSE GEAR DAMAGE"	D3
3/1/1993	CLT	S360	AAX	121	36		0	NO	SMOKE IN COCKPIT	D3
3/13/1993	CLT	B737	AAA	121	131		0	NO	SKIDDED OFF TWY	D3
3/13/1993	ORD	F100	AAA	121	104		0	N/A	NOSE GEAR FAILURE	"D,F3"
3/25/1993	BNA	B737	SWA	121	125		0	YES	BOMB THREAT	"D,F2"
3/29/1993	SFO	A310	DAL	121	127		36	YES	"SMOKE IN CABIN, NO FIRE"	"A1,D,F2,F3,L2"
4/14/1993	DFW	DC10	AAL	121	202		70	YES	"HARD LNDG,LTNG STRK, 1PAX BROKE NECK	
4/22/1993	DTW	A320	NWA	121	48		0	?	"OFF RWY, WET RWY"	"A1,DN,F3"
4/24/1993	SYR	S340	BEX	121	24	E	0	N/A	RT ENG MALFUNCTION	"DN,F3"
4/27/1993	DEN	MD80	CAL	121	121		6	YES	GEAR FAIL (CHUTES/BUS)	*DN,F2,M1,N3*
4/29/1993	CLE	B 737	UAL	121	82	E	U	?	LOST WHEEL	"A1,DN"
5/7/1993	PIT.	F28	AAA	121	68	E	0	N/A	LT GEAR CAME OFF ON ROLLOUT	"DN,F3"
5/24/1993	AZO	S360	SIM	121	30	E	0		"ORD APP LOST RADAR,CARGO SMOKE WAR!	
5/28/1993	ORD	S360	?	135	26		0		RT MAIN TIRE BLOWN	D
5/29/1993	ATL	L1011	DAL	121	76		3	YES	"SMOKE CABIN, NO FIRE"	*DN,F2,F3,L2*
6/8/1993	LAX	B757	UAL	121	197		0	NO	LW SLIDE DEPLOYED IN FLIGHT	"DN,N3"
6/10/1993	EKO	B737	TEM	121	82	E	0	? :	NR1 ENG SMOKE	"DN,F3"
6/12/1993	LGA	A320	NWA	121	107	E	0	3	"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"	Ð
6/18/1993	SAV	DC9	AAL	121	133		1	YES	FIRE LEFT ENG ON CLIMB	"DNC,F3,L2,N3"
7/11/1993	ORD	MD80	AA L	121	91	E	U	NO	TIRE MISSING	D3
7/18/1993	CLT	F28	AAA	121	64		0	МО	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	E	0	NO	"HYD FAILURE, AIRSTAIRS, BUS"	Đ
7/28/1993	ORD	B767	SWIS	121	140	E	U	NO	BOMB THREAT	D3
7/29/1993	ROA	B727	RYA	121	99	E	0	?	SMOKE RIGHT ENGINE	"DNC,F3"
8/4/1993	MCO	E120	COM	121	. 14	E	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	E	2	?	SMOKE IN CABIN	"DNR,F3,1.2"
8/16/1993	DEN	B73 7	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	14	E	0	?	FIRE IN LEFT ENGINE	"DNC,F3"
9/12/1993	DEN	B727	UAL	121	146		1	YES	SMOKE COCKPIT	"D,F2,F3,L2"
9/16/1993	CLT	?	AAA	121	100	E	0	NO	FIRE ALARM IN ENGINE	D3
9/20/1993	ATL	L1011	DAL	121	186	E	2	YES	FUMES AIRCOND	"D,L2"
9/22/1993	ACY	AT42	CALX	135	33	E	0	N/A	SMOKE FROM WHEEL CHAIR	D
9/27/1993	BQS	B727	CAL	121	157		0	NO	MAIN GEAR SHEARED	D
9/28/1993	SAN	B757	UAL	121	169		16	YES	"FIRE NR1, EXT FIRE"	"D,F3,L2"
10/4/1993	DEN	MD80	DAL	121	127		3	YES	BLEW N2 ENGINE	"D,L2"
10/8/1993	BOS	B747	OLY	121	244		0	NO	MN GEAR FIRE	D
10/28/1993	BDR	S360	PAC	121	30	E	0	N/A	BAG COMP SMOKE LIGHT	"DNC,F3"
11/14/1993	JLN	JT32	EXA	121	14	E	0	N/A	NRI ENG FIRE WARNING LIGHT	"DNC,F3"
12/31/1993	DEN	B737	UAL	121	111		0	NO	BLOWN TIRES	"D,F3"
1/1/1994	MIA	B767	UAL	121	169		0	YES	*PAX SAW FLAME, PANICKED, EVAC STARTED	""""""""""""""""""""""""""""""""""""""
1/1/1994	ORD	B737	UAL	121	50		U	NO	HYD LEAD LT MAIN GEAR	D3
1/4/1994	CLT	F28	AAA	121	67		0	NO	BROKEN STEERING CABLE	D3
1/10/1994	DEN	MD80	CAL	121	104		3	YES	RT MAIN GEAR	*D,F3*
1/15/1994	BOS	\$340	BEX	135	8		Q	N/A	FIRE LIGHT IN CARGO COMPTMT	D
1/18/1994	CVG	MD88	DAL	121	40		0	ŅŌ	SLID OFF RWY	D
1/18/1994	BOS	S340	BEX	135	17		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	135	24		0	NO	SMOKE	D
2/9/1994	ORD	B737	CAL	121	87		0	?	LEFT MAIN GEAR RETRACTED	D3
2/13/1994	SAV	DC9	YYY	121	81		3	YES	ENGINE FIRE	"DNC,F2,F3"
2/14/1994	OMA	F28	AAL	121	68	E	0	N/A	NR1 ENG FIRE	"DN,F3"
2/25/1994	CWA	ATP	UALX	[121	18		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	HAI	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	E	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	E	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	E	0	N/A	NRI 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	E	0	N/A	RT ENG FIRE	"DN,F3"
4/26/1994	MSP	JT31	NWA	121	14	E	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			CREW & PAX	-	URY Focal	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
5/11/1994	LAF	DHC8	?	121	34	E	0	N/A	FIRE LIGHT ON	"DNC,F3"
5/24/1994	MEM	S340	EXA	121	24	E	0	N/A	SMOKE IN CABIN	"DN,F3"
5/25/19 94	ORD	F28	AAL	121	68	E	3	N/A	FIRE ON GROUND	"DN,F3"
5/25/1994	EVV	JT32	TST	121	14	E	0	N/A	"FLAMES, SMOKE LEFT ENGINE"	"DNC,F3"
5/28/1994	ORD	MD80	AAL	121	90		U	YES	GROUND FIRE	D3
5/31/1994	MGM	S340	EXA	121	24	E	0	N/A	AVIONIC SMOKE LIGHT	"DNC,F3"
6/7/1994	BDL	1900	PAC	121	14	E	0	N/A	"RT ENG FIRE LT, NO FIRE"	"DNC,F3"
6/29/1994	BOS	MD80	CAL	121	91	E	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	IAH	B737	CAL	121	82	E	0	?	LOST ELECTRONICS AND DC PWR	"DN,F3"
7/22/1994	DAY	S340	?	121	24	E	0	N/A	ENGINE FIRE LIGHT	"DN,F3"
7/31/1994	JFK	B747	TWA	121	257	E	0	}	FIRE LIGHT NR2 ENGINE	"DN,F3"
8/1/1994	IAD	JT32	?	121		E	0	,	"LOSS HYD PRESSURE, DAY UNKN"	"A2,DN"
8/5/1994	FAT	JT31	WSA	121	14	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	\$227	SKA	121		E	0	N/A	LEFT ENG FIRE LIGHT	"DN,F3"
8/8/1994	MEM	S340	EXA	121	_	E	o	N/A	CARGO COMP SMOKE LIGHT	"DN,F3"
8/17/1994	PHL	S360	PAC	121		E	0	N/A	FIRE LIGHT RIGHT ENG	·
8/19/1994	ORD	MDII	ALI	121	_	E	0	NO	NOSE GEAR COLLAPSE	*DN,F3*
8/29/1994	MCO	MD80	VEN	121			0	i VO		"D3.N3"
9/3/1994	SFO	E120	WSA	121	=	e	0	N/A	BLEW TIRES	"DN,F2"
9/15/1994	FAT	JT31	WSA		-	E	0		SMOKE IN COCKPIT	"DN,F3"
9/19/1994	IAD	-		121		E		N/A	FUEL LEAKED ON RAMP	"DNC,F3"
		JT41	ACA	121		E	0	N/A	"IRATE PAX, PROBABLE GUN (CIG LTR)"	"DN,F3"
10/1/1994	ORD	MLG	}	121	-	E	0	?	MAIN GEAR TIRE BLEW ON TO	"A2,DN"
10/5/1994	CVG	S340	COM	135		_	0	N/A	NO FLAP LANDING	D
11/2/1994	BOS	B747	BOA	121		E	0	NO	FIRE WARN LT	D
11/18/1994		B737	UAL	121			0	NO	MISS MAIN GEAR	D
11/19/1994		M23	DHL	135	•	_	0	N/A	SMOKE MAIN CAB IN AC&HEAT SYS	D
11/27/1994		B727	AAL	121		E	0	NO	TIRES BLEW OUT LT MAIN GEAR	D3
12/5/1994	BOS	S340	BEX	135			0	N/A	"FIRE ON AIRCRAFT, PORTABLE STAIRS"	D
12/12/1994		AT42	ASE	121	=		0	N/A	GENERATOR FAULT LIGHT	*DN,F3,N3*
12/12/1994		1900	MSA	135		E	0	N/A	"SMOKE IN COCKPIT, EVAC"	"DNC,F4"
12/23/1994		MD80	AAL	121			0	NO	SLID OFF PAVEMENT-WINTER CONDITIONS	D3
12/24/1994		1900	MSA	121		E	0	N/A	"FIRE ON LDNG,LIGHT'S 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	STL	MD80	TWA	121	66		0	NO	FLAT TIRES	D
1/17/1995	DFW	AT72	XIAA	121	37		2	N/A	HOT BRAKE CAUTION LIGHT	"DN,N3"
1/30/1995	BNA	MD88	DAL	121	116		4	YES	FIRE IN TAIL	"A2,D3,F2,F3"
2/6/1995	BOS	S340	BEX	135	24	E	Ð	N/A	LEFT MAIN BRAKE FROZE	D
2/16/1995	BOS	B757	DAL	121	125	E	0	NO	BOMB THREAT	D
3/2/1995	OMA	B 737	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	E	0	N/A	SMOKE IN COCKPIT	"DNC,F3"
3/7/1995	STL	JT31	CAWT	(135	18		0	N/A	ENG FIRE WARN LIGHT	D
3/9/1995	HAI	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	STL	DC9	TWA	121	67	E	0	NO	LEFT MAIN BRAKE LOCKED	מ
3/17/1995	BOS	1900	BEX	135	14	E	0	N/A	SMOKE IN COCKPIT	D
3/23/1995	MSP	DC9	AAA	121	67	E	3	?	EXH PIPE FIRE ON START UP	"DN,F3"
4/2/1995	JFK	MDII	AAL	121	108		43	YES	FIRE N2 ENG	"A2,D3,F2,N3"
4/3/1995	DFW	B727	AERO	121	160		2	YES	FIRE WARNING NI LFT ENG	"DN,F4,N3,"
4/4/1995	JFK	MDII	AAL	121	199	E	38	?	"ENG TAIL PIPE FIRE, EVAC"	"DN,MI"
-	-					-				a-4 1947EZ

DATE	AIR PORT	TYPE A/C	AIR- I		CREW & PAX	-	URY Fotal	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
4/8/1995	ORD	?	UAL	121	100	E	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	V UJ	121	55		6	?	"FIRE, DIR DATE 06/10"	"D,F2,M1"
6/12/1995	ATL	B72 7	DAL	121	52		0	YES	SMOKE	"DN,F2"
6/20/1995	SLC	CL60	SKA	121	14	E	1	?	"MAIN TIRES BLEW, ABORTED TO"	"DN,F3"
6/29/1995	LGA	DC9	AAA	121	67	E	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	B 767	AAL	121	140	E	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	E	0	YES	SMOKE IN FUSELAGE (POSSIBLE APU)	D3
7/17/1995	ABY	B737	SWA	121	82	E	0	YES	SMOKE	"DN,F2"
7/27/1995	SFO	MD80	ALA	121	120		0	?	"SMOKE CAB, CAB CREW TREATED FOR SMOK	Œ" "A2 ,D"
8/1/1995	STL	JT31	?	121	14	E	0	N/A	"BRAKE FIRE, ABORTED TO"	"A2,DN"
8/8/1995	MSP	S340	CASX	135	24	E	0	NO	SMOKE IN COCKPIT	D3
8/11/1995	BOS	S340	BEX	135	2 4	E	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	B 737	UAL.	121	43		0	YES	FIRE WARNING	"DNC,F2"
9/19/1995	MEM	\$340	NWAX	135	16		0	N/A	BOMB THREAT	D
9/22/1995	SAN	?	UAL	121	100	E	0	NO	BOMB THREAT	D3
9/26/1995	FLL	B737	CAR	121	162		3	YES	"SMOKE IN A/C, O2 MASKS DEPLOYED"	"D3,F3,N3"
11/1/1995	ORD	?	AALX	135	100	E	1	N/A	A/C FIRE	D3
11/12/1995	BDL	MD80	AAL	121	77		1	?	"STRUCK TREES OFF APT, THEN LANDED"	*DNC,M1,N3*
11/27/1995	SFO	MD80	ALA	121	91	E	0	NO	A/C STUCK IN TURF	D3
12/12/1995	MSP	B737	UAL	121	82	E	3	NO	"HOT ENG START, PAX PANIC, EEE OFF WING"	D3
12/12/1995	SFO	MD80	ALA	121	61		0	NO	MALFUNCTION BRAKE	D3
12/20/1995	JFK	B747	TWRA	121			60	NO	ABORTED TAKEOFF & CRASHED	*D3,M1,N3*
12/29/1995	GSO	MD80	DAL	121	115		0	NO	BOMB THREAT	D3
12/30/1995	CLT	B737	AAA	121	99		0	NO	A/C SLID OFF TWY	D3
1/4/1996	HOU	A172	AALX	121	23		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		E	-	N/A	VIBRATION ON LANDING	*DN,F3*
1/23/1996	BNA	B727	DAL	121			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		E	3	}	SMOKE AFT CABIN ON TO	"DNC,F4"
2/8/1996	PHL	B727	NWA	121		E	0	NO	"SMOKE IN CABIN AT GATE, EVAC HITCHES"	"DN,F4"
2/18/1996	DTW	B757	NWA	121	-	E	1	}	"ENG FIRE LIGHT ON TO ROLL, EVAC"	*DN,F4*
2/20/1996	IAH	DC9	CAL	121			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 CLT	A300	AAL	121			34	YES	SMOKE IN COCKPIT & CABIN	"DN,M1,N3"
2/22/1996	CLT	F100	AAA	121			0	NO	MAIN GEAR PROBLEMS	D3
2/23/1996	BNA BOS	DC9	VUJ	121		E	0	NO	BOMB THREAT ABOARD A/C	D3
2/25/1996 2/25/1996	JFK	DHC8 AT42	AAA	121 121	14 4 6		0	NO N/A	SMOKE IN A/C	D3
3/8/1996	RDU	JT31	CCA	135			0		NO. 2 ENGINE FIRE	D3
	TUL	AT42	SIM			E	_	N/A	UNSAFE GEAR (PASS THRU WINDOW EXITS)	D3
3/11/1996 3/20/1996	ATL	B737	DAL	135 121		E E	1	N/A	"SULPHUR SMELL IN CABIN, EVAC"	"DNC,F4"
3/20/1996 4/30/1996	ONT	B737	SWA	121	82 137	£	7	? Vec	SMOKE IN CABIN	*DN,F4*
5/2/1996	DIA	1900	UALX	121			3 0	YES N/A	LEFT MAIN GEAR HUNG UP	"D3,M1,N3"
5/16/1996	SAN	E120	SKA	135			0	NO NO	RT MAIN GEAR COLLAPSE FOUR BLOWN TIRES	"DN,M1,N3"
5/23/1996	IND	1900	SYA	135			0	N/A	-	D3
6/9/1996	BOS	S340	BEX	121	12		0	NO	"SMOKE IN CABIN, EVAC"	"DN,M1,N3"
G 21 1270	~~ 3	UTV	DEA	141	12		v	110	FIRE IN #1 ENGINE	D3

DATE	AIR PORT	TYPE A/C		FAR PART	CREW & PAX	-	URY otal	SLIDES USED?	WHY EVACUATED AND REMARKS	DATA SOURCES
6/17/1996	ĵfK	?	TWR	A 135	100	E	0	?	NR2 GEN LIGHT & LOW OIL LIGHT	"DN,F4"
6/20/1996	ALB	S340	BEX	135	24	E	0	š	"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	E	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	E	0	N/A	ABORTED TAKEOFF	D3
7/13/1996	ATL	MD88	DAL	121	91	E	U	NO	BOMB THREAT	D3
7/21/1996	JAX	?	CAL	121	100	E	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	B 727	DAL	121	99	E	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	12	71	E	U	YES	BOMB THREAT-NOTE IN MAG ON A/C	D3
8/27/1996	DIA	B757	UAL	12	172		Ð	NO	HYD PROBLEM	D3
8/29/1996	CLT	F28	AAA	121	73		0	NO	VIBRATION ON TAKEOFF	D3
8/30/1996	DIA	B727	UAL	12	154		0	NO	BLOWN TIRE	D3
9/5/1996	CVG	MD68	DAL	12	91	E	0	NO	BOMB THREAT	D3
9/6/1996	MSY	B737	AAA	12	115		0	NO	BOMB THREAT	D3
9/6/1996	LGA	DC9	CAL	12	67	E	1	?	"FIRE #2 ENG, EVACUATED"	"DNR,F4"
9/11/1996	ATL	?	DAL	12	100	E	U	NO	BOMB THREAT-CALL DAL MIA RESERV.	D3
10/1/1996	DAY	B757	AAA	12	117		7	YES	BOMB THREAT-DAY NOT KNOWN	D3
10/5/1996	SJC	A320	MEX	12	125		0	NO	BOMB THREAT	D3
10/13/1996	PHX	B737	AWA	12	100		0	NO	POSSIBLE BOMB	D3
10/13/1996	DAY	3757	እአአ	12	125	E	4	?	"PAX REPORT PIPE BOMB,EVAC"	"DN,F4"
10/19/1990	LGA	MD80	DAL	12	1 63		3	?	"STRUCK APPROACH LIGHTS, GEAR SHEARED"	"DNR,M1,N3"
10/28/1996	S JFK	MD80	AAL	12	1 100		11	YES	"UNSAFE NOSE GR IND,(D3=10/29/96)"	"D3,M1,N3"
11/1/1996	PBI	MD80	DAL	12	1 136		0	NO	"BOMB THREAT, DAY NOT KNOWN"	D3
11/6/1996	SFO	JT31	UAL	X 13	5 16		0	N/A	LEFT MAIN BRAKE STUCK	D3
11/10/1990	CLE	MD80	AAL	12	1 120		0	NO	SLID OFF PAVE-WINTER CONDITIONS	D3
11/11/1990	CLE	MD80	DAL	12	1 118		0	NO	SLID OFF PAVE-WINTER CONDITIONS	"D3,M1"
11/18/1990	GRR	B 737	UAL	12	1 71		2	?	FIRE WARN NR2 ENG	"DNC,M1,N3"
11/23/1996	DFW	DC9	AAL	12	1 120		1	YES	"LOUD BANG, ABORTED TAKEOFF"	"DN,M1,N3"

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 FAA contract No. 96P51602, we have been tasked to up-date the previous research on Part 121 and 135

EMERGENCY EVACUATION EVENTS conducted at your airport. Please review your records for the period of to date 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.)

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

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

AIRPORT SURVEY QUESTIONNAIRE

SURVEY OF EMERGENCY EVACUATION EVENTS BY PART 135 AND 121 AIRCRAFT FROM:	ART 135 AND 121 AIRCRAFT FROM:		AMONOTOR
(information imparated to comply with FAA contract No., 20051002, Sectember 3, 1995)	P51602, September 3, 1995)		
INFORMATION REQUESTED EVENT #1	EVENT #2	EVENT #3	
Of. DATE		1	
02. TYPE AIRCRAFT			
03. AIRLINE			
OA. FLICHT#			
06. # OF PASSENGERS			
06. #OF CREW			
07. # OF PASS. INJURIES			
08. # OF PASS, HOSPITALIZED			
09, # OF CHEW MULTHES			
10. REASON FOR EVACUATION			
11. WENE YOU NOTIFIED IN ADVANCE?			
12. IF YES, HOW SOON BEFORE?			
ig. Where did the evacuation take place (gate, ramp, etc. γ .	, PAMP, ETC, 17		
4 WERE EXIT SLIDES USED?			
6. COMMENTS/REMARKS: (Your comments are of high va	value!)		
LEASE RETURN TO:	VE NEED ADDITIONAL INFORMATION W	HO SHOULD WE CONTACT? (You mu	NEED ADDITIONAL INFORMATION WING SHOULD WE CONTACT? (You may stable your husbress and the stables)
FESTERN OKLAHOMA STATE COLLEGE fbr. DR. MCHAEL K. HYNES, Dr. of Avia. Research 801 North Main Street fus, OK 73521-1397 Toll free phone: 888-335-5754	NAME: TITLE: ADDRESS:	PHONE:	EES9801

APPENDIX C

Airports Contacted

ID	CITY, STATE	1994	1995	1996	(1995	Airport data)
	•				Rank	Enplanements
ABQ	ALBUQUERQUE, NM			X	48	3,056,442
ABY	ALBANY, GA			X	295	37,152
ACY	ATLANTIC CITY, NJ	X			129	338,027
ATL	ATLANTA,GA	X	X	X	2	28,090,978
BGM	BINGHAMTON, NY	X			182	149,632
BNA	NASHVILLE, TN	X	\mathbf{X}	X	42	3,685,219
BOS	BOSTON, MA	X	\mathbf{X}	X	15	11,734,693
BUF	BUFFALO, NY	_		X	69	1,563,176
BWI	BALTIMORE, MD	X	X	X	28	6,466,755
BZN	BOZEMAN, MT	\mathbf{x}			166	185,967
CAE	COLUMBIA, SC	$\mathbf{X}^{:}$	X	X	96	569,666
CHS	CHARLESTON, SC	X			90	691,731
CID	CEDAR RAPIDS, IA	X			124	394,395
CLE	CLEVELAND, OH		\mathbf{X}	X	32	5,270,004
CLT	CHARLOTTE, NC	X		X	20	10,463,122
CVG	GREATER CINCINNATI, KY	\mathbf{x}	\mathbf{X}	X	25	7,504,549
DAL	DALLAS, TX (Love Field)	X		X	44	3,418,604
DAY	DAYTON, OH	٠.		X	80	1,088,823
DCA	WASHINGTON NATIONAL, VA	\mathbf{x}	X	X	26	7,373,178
DEN	DENVER, CO (pre 12/95)*1	\mathbf{x}	X	X	7	14,858,763
DFW	DALLAS-FT WORTH, TX	X	X	X	3	26,962,940
DSM	DES MOINES, IA	$^{\circ}\mathbf{x}$			86	795,625
DTW	DETROIT, MI (Metro)	X	X	X	9	14,082,598
EKO	ELKO, NV	X			188	134,843
ELM	ELMIRA, NY	\mathbf{x}			216	92,327
ELP	EL PASO, TX	X			61	1,826,460
EWR	NEWARK, NJ	\mathbf{x}	X	\mathbf{X}	12	13,230,961
FAY	FAYETTEVILLE, NC	X			177	164,008
FLL	FT LAUDERDALE, FL	X	X	X	34	4,787,467
GSO	GREENSBORO, NC	\mathbf{x}		X	64	1,766,316
GTF	GREAT FALLS, MT	\mathbf{x}			191	127,224
GVT	GREENVILLE, TX	X				not available
HNL	HONOLULU, HI	X			17	11,283,295
HOU	HOUSTON, TX (Hobby)	\mathbf{X}	X	X	41	3,905,727
IAD	WASHINGTON, DULLES	\mathbf{X}	X	X	29	5,879,523
IAH	HOUSTON, TX	X	X	X	16	11,350,898
ICT	WICHITA, KS	X			93	658,307
ILM	WILMINGTON, NC	\mathbf{X}			165	186,633
IND	INDIANAPOLIS, IN	\mathbf{x}		X	47	3,189,932
ISO	KINSTON, NC (Regional)	\mathbf{X}			364	17,973
JAX	JACKSONVILLÉ, FL	\mathbf{X}		X	62	1,779,812
JFK	NEW YORK, NY (Kennedy)	X	X	X	8	14,601,827
LAS	LAS VEGAS, NV	\mathbf{x}	\mathbf{X}	X	11	13,243,748
LAX	LOS ANGELES, CA	X	X	X	4	26,133,795
LGA	NEW YORK, NY (La Guardia)	\mathbf{X}	X	X	21	10,297,628

ID	CITY, STATE	1994	1995	1996	(199	5 Airport data)
	•				•	Enplanements
LGB	LONG BEACH, CA	X		X	167	185,776
LIT	LITTLE ROCK, AR	X			74	1,265,673
MCI	KANSAS CITY, MO	X	X	X	35	4,743,009
	ORLANDO, FL	X	X	X	19	10,583,166
	CHICAGO, IL (Midway)	X	X	X	39	4,266,831
MEM	MEMPHIS, TN	X	\mathbf{X}	X	38	4,323,207
MIA	MIAMI, FL	X	X	X	6	16,065,673
MSP	MINNEAPOLIS, MN	X	\mathbf{X}	\mathbf{x}	14	12,559,491
MSY	NEW ORLEANS, LA	X	X	X	40	4,084,886
OAK	OAKLAND, CA	•		X	33	4,797,498
OKC	OKLAHOMA CITY, OK	X			67	1,670,332
OMA	OMAHA, NB			X	70	1,542,519
ONT	ONTARIO, CA		•	X	46	3,232,996
ORD	CHICAGO, IL (O'Hare)	X	\mathbf{x}	X	1	31,433,002
ORF	NORFOLK, VA			X	73	1,335,378
ORH	WORCESTER, MA	X			303	33,102
PBI	WEST PALM BEACH, FL	X		X	54	2,699,227
PDX	PORTLAND, OR	X	X	X	31	5,537,790
PFN	PANAMA CITY, FL		Λ	X	183	147,452
PHL	PHILADELPHIA, PA	X	\mathbf{X}	X		•
PHX	PHOENIX, AZ	X	X	X	23 10	8,791,372
PIT		X	X			13,738,433
PNS	PITTSBURGH, PA PENSACOLA, FL	X	А	X	22	9,945,793
	PROVIDENCE, RI	А	X	X	103 81	544,486 1 073 030
PVD		v	Λ	A		1,073,939
RAP	RAPID CITY, SD	X	37	37	170	180,794
RDU	RALEIGH, NC	*7	X	X	50	2,938,831
RIC	RICHMOND, VA	X	37	77	82	1,066,411
SAN	SAN DIEGO, CA	X	X	X	27	6,636,372
SAT	SAN ANTONIO, TX			X	49	3,028,246
SDF	LOUISVILLE, KY	X	37	X	63	1,767,511
SEA	SEATTLE, WA	X	X	X	18	11,077,470
SFO	SAN FRANCISCO, CA	X	X	X	5	17,187,766
sjc	SAN JOSE, CA	X	X	X	37	4,394,931
SLC	SALT LAKE CITY, UT	X	X	X	24	8,741,761
SMF	SACRAMENTO, CA	77		X	45	3,346,762
SNA	SANTA ANA, CA (John Wayne)	X	77	X	43	3,533,073
STL	ST LOUIS, MO	X	X	X	13	12,790,701
SYR	SYRACUSE, NY			X	84	1,006,200
TPA	TAMPA, FL	X	X	X	30	5,567,950
TUL	TULSA, OK	X			68	1,566,424
TUS	TUCSON, AZ	X		X	65	1,715,732
TYS	KNOXVILLE, TN (McGhee)	X			91	674,970
7V1	BUENA VISTA, CO	X				
NUME	SER 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	-	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, C	T 2	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	1	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, C		197	120,772
SPS	WICHITA FALLS, TX	1	252	62,645
TUL	TULSA, OK	1	68	1,566,424
UNV	STATE COLLEGE, PA		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	2	•	•
Drw		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	5,337,790	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

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	USAIR	, u u.u u
AAAX		USAIR EXPRESS
AAL	AMERICAN AIRLINES	
AALX		AMERICAN EAGLE (listed below-AALX)
ABX		ABX AIR
ACA	ATLANTIC COAST AIR	
AIB	AIR IBERIA	
ALA	ALASKA AIR	•
ALI	ALITALIA	
ALO		
AMT		
AMW	AIR MIDWEST	10001
APA		ASPEN AIRWAYS
AR21		AIR 21, INC.
ASE	ATD TO ANTONODO INTONIATIONIATIONIAT	ATLANTIC SOUTH EAST
ATI	AIR TRANSPORT INTERNATIONAL	
AWA	AMERICA WEST	AIR WISCONSIN
AWS BEX		BUSINESS EXPRESS
BNF	BRANIFF	BUSINESS EXPRESS
BOA	BRITISH OVERSEAS AIRWAYS	
BRT	DRITISH OVERSEAS AIRWAIS	BRITT AIRWAYS
BWA	-	BROCKWAY AIR
	CONTINENTAL	DROCKWAI AIK
CALX	CONTINUENTAL	CONTINENTAL EXPRESS
CAN	CANADIAN	
CAPE	Wall 12 327 A23.1	CAPE AIR
CAR		CARNIVAL
CASX		CASIO EXPRESS
CCA		CC AIR
CMD		COMMAND AIRWAYS
COM		COMAIR
DAL	DELTA AIR LINES	
DALX		DELTA EXPRESS
DHL	DHL AIR	
EAL	EASTERN AIR LINES	
EXA		EXPRESS AIRLINES ONE
FDX	FEDERAL EXPRESS	
FGS		FLAGSHIP EXPRESS (AALX)
GULF		GULF
HAL		HAWAIIAN AIR
HNA		HENSON AVIATION
HRA		HORIZON AIR
JSI		JETSTREAM INTERNATIONAL
KAL		KALITTA
MDC		MIDWEST COMMUTER

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

WSA

WWA

XP1

WEST AIR

EXPRESS ONE

WINGS WEST AIRLINES (AALX)