

Lessons from the Ashes: Improving Aviation Safety through Accident Investigation



Robert Sumwalt



Windy, Cold
 Partly cloudy, windy and cold. High around 45 northwest to low 35s along coast. Sun rises 7:28 a.m., sets 5:12 p.m. Details, 11-4.

The State

Price
 Single... 10¢
 Daily... 25¢
 Weekly... 1.50
 Monthly... 4.50
 Yearly... 50.00

22nd Year — No. 355 2 Sections — 56 Pages Columbia, South Carolina Friday, December 21, 1973 Daily 12¢



Plane Crashes Near Airport

A two-engine plane crashed in a wooded area between Burnhamville and Paul Springs roads Thursday while making a westward approach to the Columbia airport. The owner, vice president of the Federal Land Bank of Columbia, J. Chappell Moore, 38, and the pilot Michael O. Frederick, 28, were killed instantly. Another bank executive Rex D. Price, 40, is in satisfactory condition. Another person, 14, (Staff Photo by Mike Roberts)

Frederick, 28, were killed instantly. Another bank executive Rex D. Price, 40, is in satisfactory condition. Another person, 14, (Staff Photo by Mike Roberts)

Air Crash Kills Two

Flood Of Bills Sent To Nixon

WASHINGTON (AP) Congress sent to President Nixon eight defense, energy and other bills.

West To Push 2nd Med School

By LEVINA PAGE

10-Gallon Limit Asks

'Merry Christmas From The Grid'

WASHINGTON (AP) — Energy chief William E. Simon wished everybody "a Merry Christmas from the Grid." Thursday, then asked motorists moving up for two long holiday weekends to use only 10 gallons of gasoline per week. Simon promised a decision whether or not to order gasoline rationing by New Year's Day. Meanwhile, restrictions on the number of days in the week a person can drive his car are being considered, material supplied to key members of Congress indicates. Also under consideration is extension of the Sunday ban on gasoline sales to a second day of the week, the material indicates.

best who — in a well-known story — tries to steal all the Christmas. Simon also developed a limit statute at the Pentagon by one that he was diverting 1.2 million of oil had from military stocks. U.S. international system to be through a law which will be sent out.

The proposed mandatory restrictions were among a list of 28 energy conservation measures submitted by Simon Wednesday night to Senate conferees pending emergency energy legislation, according to Sen. Paul J. Fannin II here. Fannin, who made the list available to the Associated Press Thursday, said the bills were specified by Simon as those which the administration wants to be free to impose if it decides to do so during the month-long congressional break without fear of a veto when Congress returns.

Limiting Gas Frustrating To Columbia

By PUY BISHMAN
 News Staff Writer

A federal proposal calling for limits on voluntarily sold more than 10 gallons of gasoline a week to be granted with more than one permit of fueling to several of area residents. Administrative energy chief E. Simon wants approval to

NTSB Vital statistics

- 398 FTEs
- \$110.4 Budget
 - Emerging developments in transportation industry
- 15th consecutive year of “clean” financial audit opinion

The Board



Earl Weener



Robert Sumwalt



Bella Dinh-Zarr



Office of Chairman

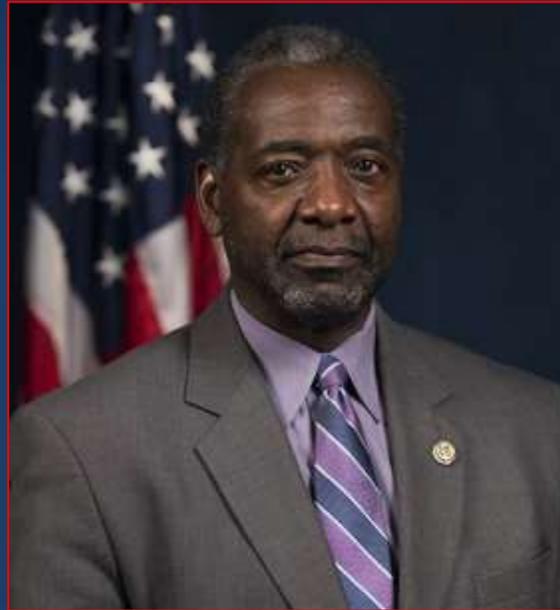


Sean Dalton, Esq.
Executive Officer



Mike Hughes
Communications Liaison

Office of Managing Director



Dennis Jones
Managing Director



Sharon Bryson
Deputy Managing Director

Office of General Counsel



Kathy Silbaugh, Esq.
General Counsel

NTSB Office of Administrative Law Judges



Hon. Steven Woody



Hon. Alfonso Montano
Chief Judge

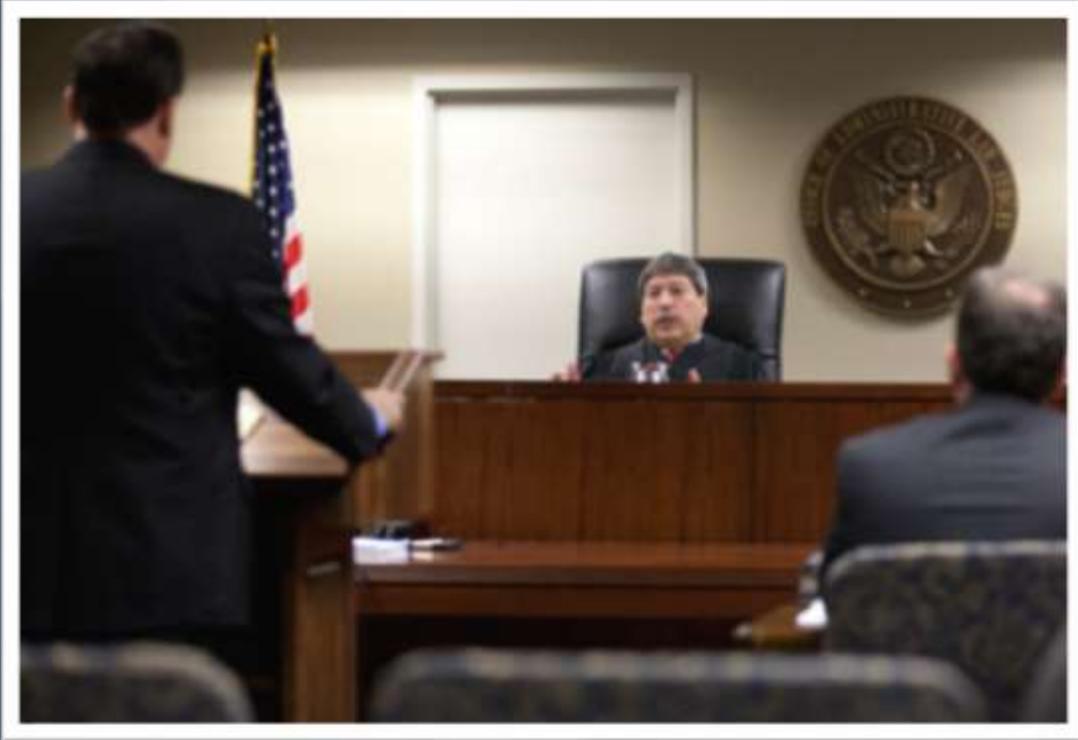


Hon. Roger Mullins



Hon. John Schumacher

In the past year



ALJ Office

- 237 new cases received
- 33 hearings
- 44 ALJ decisions
 - 121 emergency cases

Decisions Appealed to the Board

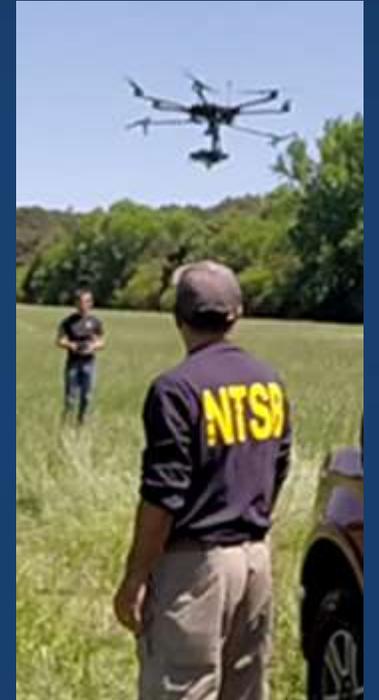
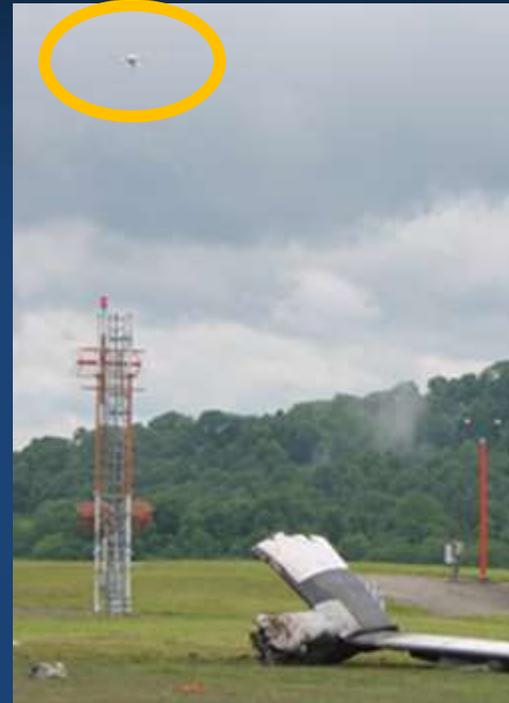
- Issued 17 Opinion & Orders
 - 12 affirmed
 - 0 reversed
 - 2 modified
 - 3 remanded

Agency wide: 2017

- 70 Board adopted products
 - Accident reports
 - Accident briefs
 - Safety Studies
 - Special Investigation Reports
 - Safety Alerts
 - Recommendation letters
- Over 1,200 accident briefs approved under delegated authority (all modes)
- 185 Safety Recommendations issued
- 118 Safety Recommendations closed acceptably



UAS Support for Investigations



FDR



iPad



Office of Research & Engineering - 2017

449 recorder readouts



CVR



Office of Aviation Safety - 2017

- 1298 domestic accidents investigated
- Accredited Representative to 164 foreign accident investigations

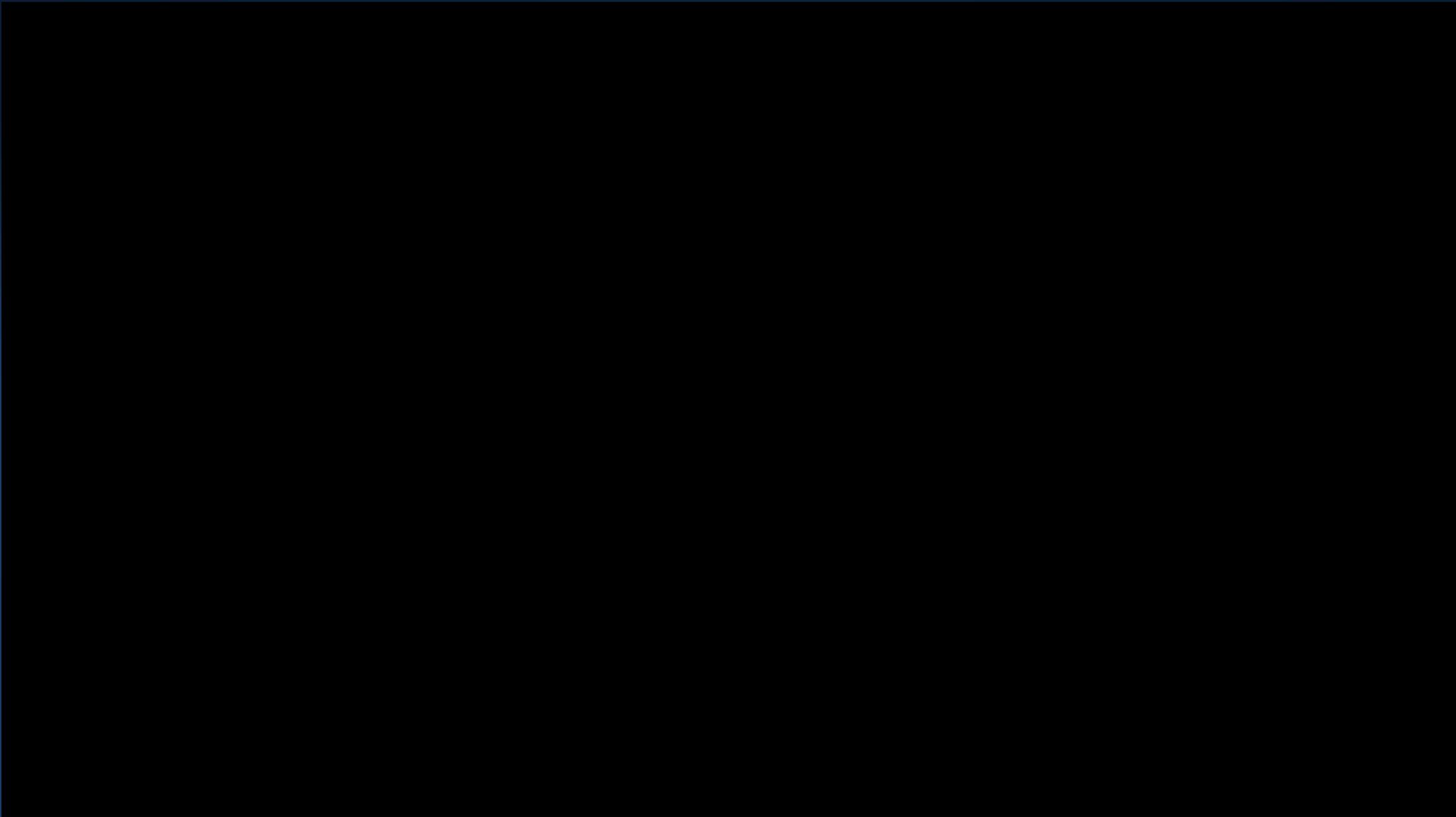
American 383, October 28, 2016



Rejected takeoff



Evacuation





Southwest Airlines flight 1380



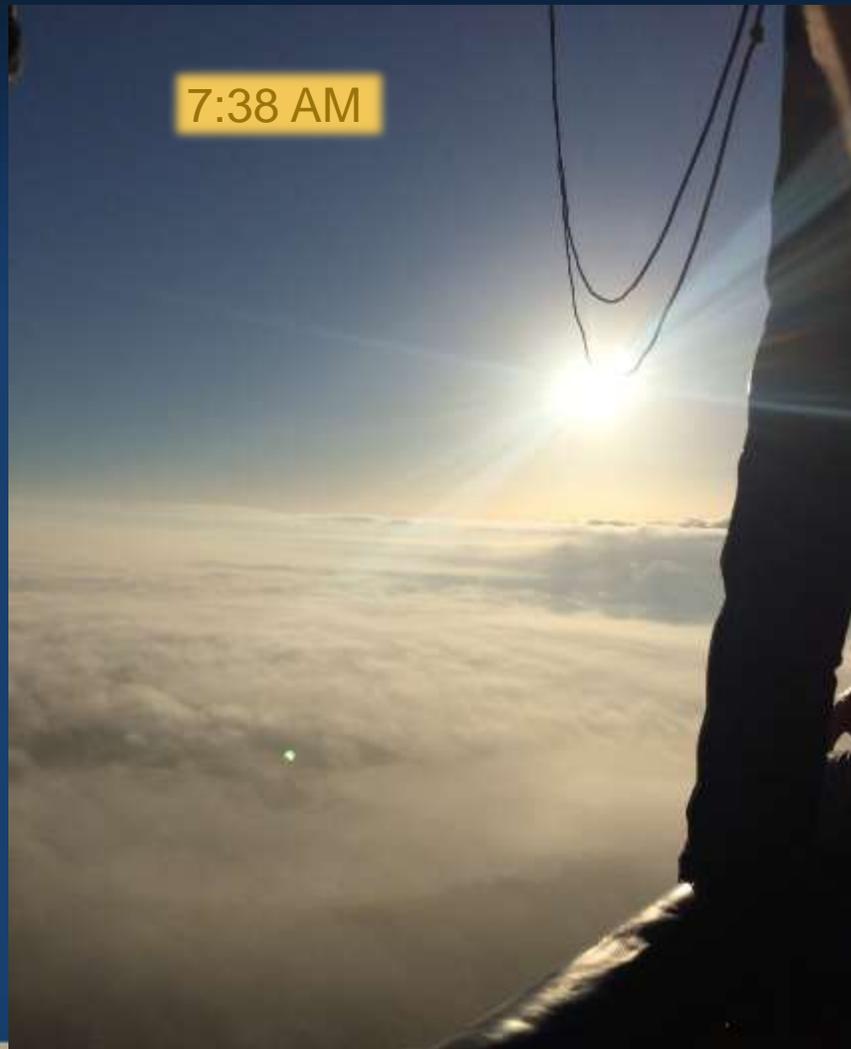
Lockhart, TX

July 2016





Passenger smartphone photos



Pilot History

- Multiple arrests, convictions, and imprisonment for drugs possession and distribution, and driving while impaired.
- Diagnosed with “major depression”
- ADHD

Pilot's Medications

- Prescribed 13 medications
 - Many likely not impairing
- Toxicology: 5 likely impairing medications

Three prescription

Cyclobenzaprine, diazepam, oxycodone

Two over-the-counter

Dextromethorphan, diphenhydramine



These air tour operations ...

require this.



UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RR-4574359
MEDICAL CERTIFICATE, SECOND CLASS
AND STUDENT PILOT CERTIFICATE

THIS CERTIFIES THAT (Full name and address)

JAMES RONALD SMITH
1234 SOUTH STREET
BEACH TOWN, CA 93449

DATE OF BIRTH	HEIGHT	WEIGHT	HAIR	EYES	SEX
07-16-40	76	200	BLACK	BLUE	M

has met the medical standards prescribed in Part 67, Federal Aviation Regulations for this class of Medical Certificate, and the standards prescribed in Part 61 for a Student Pilot Certificate.

STUDENT PILOTS ARE PROHIBITED FROM CARRYING PASSENGERS

DATE OF EXAMINATION: 05-03-96
EXAMINER'S SERIAL NO: MP-05-4321

EXAMINER'S SIGNATURE: *Donald E. Brown, M.D.*
TYPED NAME: DONALD E. BROWN, M.D.

AIRMAN'S SIGNATURE: *James Ronald Smith*

FAA FORM 806-4 (10-77) SUPER REDESIGN PREVIOUS EDITION

FAA Medical Certificate

But, for commercial air tour balloon operations...

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

BB-4574359

MEDICAL CERTIFICATE THIRD CLASS
AND STUDENT PILOT CERTIFICATE

THIS CERTIFIES THAT (Put name and address)

JAMES RONALD SMITH
1234 SOUTH STREET
BEACH TOWN, CA 93640

DATE OF BIRTH	HEIGHT	WEIGHT	HAIR	EYES	SEX
07-16-40	76	200	BROWN	BLUE	M

has met the medical standards prescribed in Part 67, Federal Aviation Regulations for the issuance of a Medical Certificate, and the standards prescribed in Part 61, Federal Aviation Regulations for the issuance of a Student Pilot Certificate.

STUDENT PILOTS ARE PROHIBITED FROM CARRYING PASSENGERS

EXPIRES

DATE	EXAMINER'S SERIAL NO.
05-03-96	MP-05-4321

EXAMINER'S SIGNATURE *Donald E. Brown, M.D.*

TYPED NAME DONALD E. BROWN, M.D.

APPLICANT'S SIGNATURE *James Ronald Smith*

FAA FORM 8064 (10/77) SUPERSEDES PREVIOUS EDITION

No Requirement





Probable Cause

The pilot's pattern of poor decision-making that led to the initial launch, continued flight in fog and above clouds, and descent near or through clouds that decreased the pilot's ability to see and avoid obstacles.

Contributing to the accident were:

- (1) the pilot's impairing medical conditions and medications, and;
- (2) the Federal Aviation Administration's policy to not require a medical certificate for commercial balloon pilots.

NTSB recommendations to FAA:

- Require medical certificates for commercial balloon operators
- Better surveillance and oversight for commercial balloon operators



March 11



National Transportation Safety Board
Washington, DC 20594

Urgent Safety Recommendation Report
Additional Harness Systems that Allow for Rapid Egress

Accident Number: ERA18MA099
Operator: Liberty Helicopters
Aircraft: Airbus Helicopters AS350B2, N350LH
Location: Flushing, NY
Date: March 11, 2018
Adopted: March 19, 2018

The National Transportation Safety Board (NTSB) is providing the following information to urge the Federal Aviation Administration (FAA) to take immediate action on this urgent safety recommendation to ensure that, if a harness system is used for an open-door passenger flight, it allows for rapid egress from the aircraft in the event of an emergency. This recommendation is derived from our ongoing investigation of a fatal accident involving an Airbus Helicopters AS350B2 helicopter, N350LH, that impacted the East River during an autorotation after a loss of engine power, the helicopter subsequently rolled inverted. The NTSB is issuing one urgent safety recommendation to the FAA.

Background and Analysis

On March 11, 2018, about 1908 eastern daylight time, an Airbus Helicopters AS350B2 helicopter, N350LH, was substantially damaged when it impacted the East River during an autorotation after a loss of engine power near New York, New York; the helicopter subsequently rolled inverted. The pilot egressed from the helicopter and sustained minor injuries. Five passengers remained inside the helicopter and were fatally injured. The doors-off aerial photography flight was scheduled for 30 minutes and was operated by Liberty Helicopters under the provisions of Title 14 Code of Federal Regulations (CFR) Part 91. Visual meteorological conditions prevailed, and no flight plan was filed for the flight, which originated from Helo Kenney Heliport, Kenney, New Jersey, about 1500.

The initial investigation into this accident has revealed that the five passengers onboard the helicopter were provided with airframe manufacturer-installed restraints (lap belt/upper body restraint), as well as a harness system that allowed the passengers to move securely within the helicopter and sit in the door sill while airborne.¹ This harness system was not installed by the helicopter manufacturer; it was comprised of off-the-shelf components (a nylon full-protection harness tethered via a lanyard to the helicopter) that were provided to the passengers by FlyNYON,

¹ In this report, "restraint" refers to the manufacturer-installed restraint system, and "harness" refers to the additional system provided by the operator to ensure passengers did not fall out of the helicopter while hovering around.

March 19

NOTICE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

N 8900.456

National Policy

Effective Date:
03/23/18
Cancellation Date:
03/23/19

SUBJ: Emergency Order of Prohibition Pertaining to "Doors-Off" Flight Operations for Compensation or Hire

1. Purpose of this Notice. This notice informs inspectors of the issuance of the Emergency Order of Prohibition, Order No. FAA-2018-0243, which prohibits the use of supplemental passenger restraint systems that cannot be released quickly in an emergency during flight operations for compensation or hire with the doors open or removed (hereinafter, "doors-off flights" or "doors-off flight operations"). The order is applicable to operators and pilots who conduct "doors-off" flights for compensation or hire. Additionally, the order prohibits passenger-carrying "doors-off" operations for compensation or hire unless the passengers are at all times properly secured using Federal Aviation Administration (FAA)-approved restraints. The order was effective immediately upon issuance.

2. Audience. The primary audience for this notice is principal inspectors (PI), aviation safety inspectors (ASI), and aviation safety technicians (AST) in Safety Assurance offices. The secondary audience includes Flight Standards Service (FS) branches and divisions in Safety Standards.

3. Where Can I Find This Notice? You can find this notice on the MyFAA employee website at http://employees.faa.gov/tools_resources/orders_notices. Inspectors can access this notice through the Flight Standards Information Management System (FSIMS) at <http://fsims.avb.faa.gov>. Operators can find this notice on the FAA's website at <http://fsims.faa.gov>. This notice is available to the public at http://www.faa.gov/regulations_policies/orders_notices.

4. Background. Based on the reliable and credible information derived from an initial investigation into a fatal March 11, 2018 helicopter accident in the East River near New York City, New York, the Acting Administrator has determined an emergency exists related to safety in air commerce. The investigation has found that while operating a "doors-off" flight, all passengers were wearing a non-FAA-approved supplemental passenger restraint system provided by the operator of the flight. While intended as a safety measure when the aircraft was in flight, these supplemental passenger restraint systems may have prevented the passengers' ability to quickly egress from the aircraft after the accident. While the accident on March 11, 2018 involved an aircraft ditching in water, passengers could face a similar hazard in other emergency situations, such as an aircraft fire on the ground.

March 23

Two critical elements of accident investigations

Independence

- the investigation is independent of outside influences

Transparency

- allowing the public to see inside the investigative processes so a reasonable person can draw the same conclusions as you did

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Independence

“The most important single aspect of the National Transportation Safety Board must be its total independence from those governmental agencies it oversees in regard to their transportation regulatory functions. If the Board is under pressure from any administration to pull its punches or to tone down its reports or to gloss over Government errors in transportation safety, then its watchdog function has been fatally compromised.”

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Independence

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Transparency

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BREAKING NEWS
WAS FLT. 370 A 'ZOMBIE PLANE'? **LIVE CNN**

BE FLIGHT 370 WRECKAGE ► OFFICIALS CAUTION THE OBJECTS

THE SEARCH FOR MH370, ONE YEAR ON **LIVE CNN**
 08:01 CET

Transparency

San Francisco
 10:50 AM PT

Indian Ocean

Suspicious Objects Spotted

1,352 miles

BREAKING NEWS
INMARSAT OFFICIAL SAYS NO "DIFINITIVE" PROOF THAT FLIGHT 370 ENDED IN SOUTHERN INDIAN OCEAN **LIVE CNN**

AGATORS **ROUTINE. AUTOMATED SIGNALS WERE REGI**

THE THEORY OF BLACK HOLES **LIVE CNN**
 THIS IS CNN MISSING SOME MONEY

BREAKING NEWS
DAY 31 FAMILIES FRUSTRATED BY MEDIA COVERAGE **LIVE CNN**
 WINNERS OF A COMPETITION TO REDESIGN EDUCATION TO FOCUS OF

What Makes NTSB?

- Our Mission
- And...







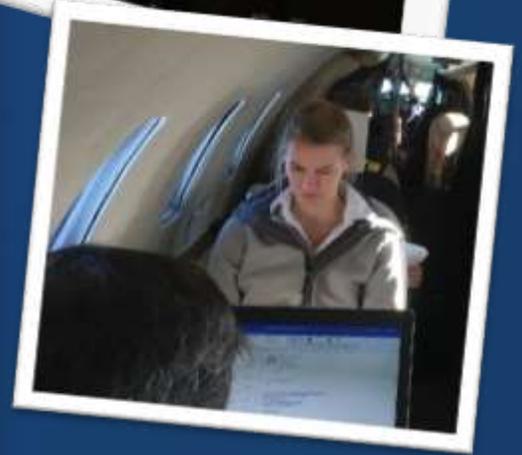
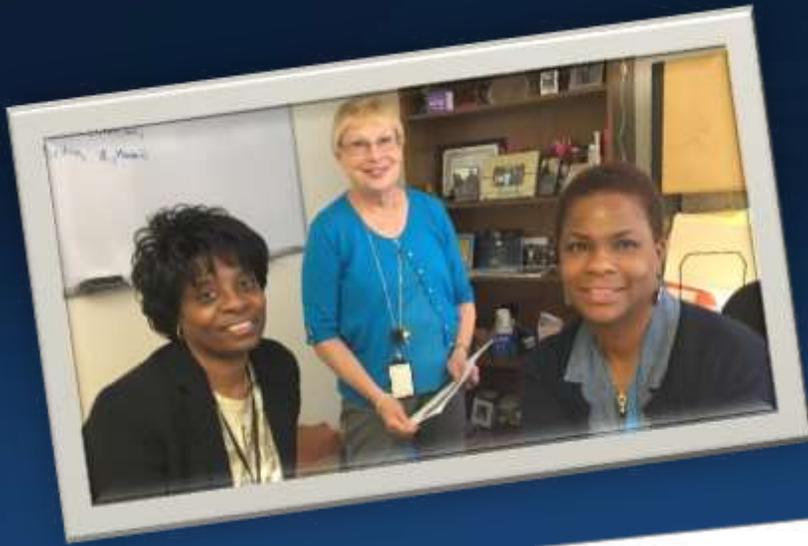
Our People













I AM NTSB

2017 FEVS

When needed I am willing to put in the extra effort to get a job done.

National Transportation Safety Board
Trend Report

My Work Experience (continued)

7. When needed I am willing to put in the extra effort to get a job done.

	N	Positive	Neutral	Negative	Difference from previous year
2017 Governmentwide	49,737	85.7%	2.7%	1.6%	

8. I am consistently looking for ways to do my job better.

	N	Positive	Neutral	Negative	Difference from previous year
2017 Governmentwide	49,449	86.9%	6.7%	2.9%	↔
2016 National Transportation Safety Board	220	86.2%	6.8%	3.0%	↔
2015 National Transportation Safety Board	242	86.2%	6.2%	2.8%	↔
2014 National Transportation Safety Board	250	86.2%	7.4%	2.4%	↔
2013 National Transportation Safety Board	235	85.4%	6.9%	2.8%	↔
2012 National Transportation Safety Board	220	86.0%	6.2%	2.8%	↔
2011 National Transportation Safety Board	200	86.0%	7.2%	2.8%	

9. I have sufficient resources (for example, people, materials, budget) to get my job done.

	N	Positive	Neutral	Negative	Difference from previous year
2017 Governmentwide	49,540	46.6%	18.0%	27.5%	NS
2016 National Transportation Safety Board	209	36.4%	14.4%	26.9%	↔
2015 National Transportation Safety Board	228	36.8%	13.7%	27.9%	↔
2014 National Transportation Safety Board	246	36.2%	12.2%	27.2%	↔
2013 National Transportation Safety Board	231	36.4%	12.6%	27.2%	↔
2012 National Transportation Safety Board	234	35.2%	17.1%	27.8%	↔
2011 National Transportation Safety Board	229	35.2%	14.8%	22.9%	↔
2010 National Transportation Safety Board	240	32.7%	18.8%	28.4%	↔

290 responses
99% POSITIVE

Agency Overall

Sunshine	23	Avg Months	8.95	Oldest	20.68	120 days	6	1-yr Avg	16.50	17.14
Notation	78	Avg Months	11.19	Oldest	24.23	120 days	6	1-yr Avg	13.13	18.88
Del. PC	42	Avg Months	6.77	Oldest	17.46	120 days	11	1-yr Avg	15.23	13.16
Other	2	Avg Months	3.91	Oldest	5.36	120 days	1	1-yr Avg	8.18	8.18

Closed Forecast

Board PC	6-12	3	12-18	7	18-24	2	Over 24	0
Notation	6-12	21	12-18	12	18-24	20	Over 24	1
Del. PC	6-12	0	12-18	0	18-24	0	Over 24	0
Other	6-12	0	12-18	0	18-24	0	Over 24	0

Incl AS [View Details](#)

Aviation Safety

Sunshine	6	Avg Months	7.53	Oldest	15.95	120 days	2	1-yr Avg	10.01	16.00
Notation	22	Avg Months	7.56	Oldest	19.07	120 days	2	1-yr Avg	8.47	13.56
Del. PC	324	Avg Months	12.2	Oldest	40.6	120 days	64	1-yr Avg	21.75	
Other	1	Avg Months	2.47	Oldest	2.47	120 days	0	1-yr Avg		0.00

Closed Forecast

Board PC	6-12	2	12-18	1	18-24	0	Over 24	0
Notation	6-12	9	12-18	1	18-24	2	Over 24	0
Del. PC	6-12	109	12-18	71	18-24	57	Over 24	16
Other	6-12	0	12-18	0	18-24	0	Over 24	0

ANX 13
17 [View Details](#)

As of 04/12/18 - Delegated PC as of 04/10/18

Highway Safety

Sunshine	11	Avg Months	8.92	Oldest	17.95	120 days	0	1-yr Avg	15.12	19.40
Notation	20	Avg Months	16.90	Oldest	24.23	120 days	1	1-yr Avg	12.90	22.75
Del. PC	5	Avg Months	5.83	Oldest	7.66	120 days	2	1-yr Avg	21.37	21.37
Other	0	Avg Months		Oldest		120 days	0	1-yr Avg		

Closed Forecast

Sunshine	6-12	1	12-18	5	18-24	0	Over 24	0
Notation	6-12	0	12-18	1	18-24	14	Over 24	1
Del. PC	6-12	2	12-18	0	18-24	0	Over 24	0
Other	6-12	0	12-18	0	18-24	0	Over 24	0

[View Details](#)

As of 05/01/18

Marine Safety

Sunshine	2	Avg Months	11.98	Oldest	20.45	120 days	0	1-yr Avg	26.40	18.00
Notation	6	Avg Months	9.21	Oldest	14.60	120 days	0	1-yr Avg	11.81	13.67
Del. PC	30	Avg Months	6.27	Oldest	13.58	120 days	9	1-yr Avg	14.64	13.40
Other	1	Avg Months	5.36	Oldest	5.36	120 days	0	1-yr Avg		0.00

Closed Forecast

Sunshine	6-12	0	12-18	0	18-24	1	Over 24	0
Notation	6-12	4	12-18	1	18-24	0	Over 24	0
Del. PC	6-12	14	12-18	2	18-24	0	Over 24	0
Other	6-12	0	12-18	0	18-24	0	Over 24	0

SIS
0 [View Details](#)

As of 04/30/18

Railroad, Pipeline and Hazardous Materials

Sunshine	3	Avg Months	8.69	Oldest	20.68	120 days	4	1-yr Avg	21.24	15.67
Notation	30	Avg Months	10.44	Oldest	22.92	120 days	3	1-yr Avg	17.88	20.78
Del. PC	3	Avg Months	11.20	Oldest	17.46	120 days	0	1-yr Avg	18.64	18.64
Other	0	Avg Months		Oldest		120 days	1	1-yr Avg	8.18	

Closed Forecast

Sunshine	6-12	0	12-18	0	18-24	1	Over 24	0
Notation	6-12	8	12-18	9	18-24	4	Over 24	0
Del. PC	6-12	1	12-18	1	18-24	0	Over 24	0
Other	6-12	0	12-18	0	18-24	0	Over 24	0

[View Details](#)

As of 05/01/18

Research and Engineering

Sunshine	66	Avg Months	15.08	Oldest	35.44	120 days	0	1-yr Avg		0.00
Notation	6	Avg Months	12.81	Oldest	13.71	120 days	0	1-yr Avg		0.00
Del. PC	6	Avg Months	7.40	Oldest	7.40	120 days	0	1-yr Avg		0.00
Other	0	Avg Months		Oldest		120 days	0	1-yr Avg		

Closed Forecast

Sunshine	6-12	6	12-18	39	18-24	7	Over 24	4
Notation	6-12	1	12-18	5	18-24	0	Over 24	0
Del. PC	6-12	6	12-18	0	18-24	0	Over 24	0
Other	6-12	0	12-18	0	18-24	0	Over 24	0

Support RE Initiated [View Details](#)

As of 02/05/18

Agency Overall

Sunshine	23	Avg Months	8.95	Oldest	20.68	120 days	6	1-yr Avg	16.50	17.14
Notation	78	Avg Months	11.19	Oldest	24.23	120 days	6	1-yr Avg	13.13	18.88
<input type="checkbox"/> Incl AS Del. PC	42	Avg Months	6.77	Oldest	17.46	120 days	11	1-yr Avg	15.23	13.16

Aviation Safety

Sunshine	6	Avg Months	7.53	Oldest	15.95	120 days	2	1-yr Avg	10.01	16.00
Notation	22	Avg Months	7.56	Oldest	19.07	120 days	2	1-yr Avg	8.47	13.56
Del. PC	324	Avg Months	12.2	Oldest	40.6	120 days	64	1-yr Avg	21.75	

Office of Aviation Safety - Open (Sunshine Items)

Accident Num	Date	Description	Location	State	Product Type	Current Status	Est. Complete	Elapsed Time
	1/1/2017	LOC Roundtable			Roundtable (Sunshine)	Ready to go for the roundtable on 4/24	4/24/18	15.95
CEN17MA183	5/15/2017	Lear 35 crashed short of runway on approach	Teterboro	NJ	Report (Sunshine)	Initial Staff Draft due 4/24. Board Meeting	Jul-Sep 2018	11.54
DCA17IA148	7/7/2017	Airbus 320-211, registration C-FKCK, operated as	San Francisco	CA	Report (Sunshine)	Awaiting Airport and Ops analysis reports	Jul-Sep 2018	9.8
	1/11/2018	Turbulence Events			Safety Study (Sunshine)	Exploring possibility of Safety Study on t		3.62
WPR18MA087	2/10/2018	N155GC; Airbus Helicopters (Eurocopter), EC-130	Peach Springs	AZ	Report (Sunshine)	SOE work continues; no airworthiness iss		2.63
ERA18MA099	3/11/2018	N350LH; American Eurocopter AS-350 B2	New York	NY	Report (Sunshine)	Ops interviews completed with operator		1.68

View Sunshine Items
6 items found

Railroad, Pipeline and Hazardous Materials

Sunshine	3	Avg Months	8.69	Oldest	20.68	120 days	4	1-yr Avg	21.24	15.67
Notation	30	Avg Months	10.44	Oldest	22.92	120 days	3	1-yr Avg	17.88	20.78
Del. PC	3	Avg Months	11.20	Oldest	17.46	120 days	0	1-yr Avg	18.64	18.64
Other	0	Avg Months		Oldest		120 days	1	1-yr Avg	8.18	

Sunshine	6-12	0	12-18	0	18-24	1	Over 24	0
Notation	6-12	8	12-18	9	18-24	4	Over 24	0
Del. PC	6-12	1	12-18	1	18-24	0	Over 24	0
Other	6-12	0	12-18	0	18-24	0	Over 24	0

As of 05/01/18

Research and Engineering

Sunshine	66	Avg Months	15.08	Oldest	35.44	120 days	0	1-yr Avg		0.00
Notation	6	Avg Months	12.81	Oldest	13.71	120 days	0	1-yr Avg		0.00
Del. PC	6	Avg Months	7.40	Oldest	7.40	120 days	0	1-yr Avg		0.00
Other	0	Avg Months		Oldest		120 days	0	1-yr Avg		

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Notation	6-12	1	12-18	5	18-24	0	Over 24	0
Del. PC	6-12	6	12-18	0	18-24	0	Over 24	0
Other	6-12	0	12-18	0	18-24	0	Over 24	0

Support
 RE Initiated

As of 02/05/18

Agency Overall

Sunshine Avg Month
 Notation Avg Month
 Del. PC Avg Month

Project Detail

Office Accident Num Accident/Start Date Date Notified
 Location State Keys Num
 Description
 Accident Type Lead Agency/Company
 Portal/Network External POC

Primary Issues

Staffing

Member Launch
 IIC
 Writer
 Editor
 Project Manager

GC
 GC Support

Requested:	Due:
Animation/Graphic/Video	Park
Recorder-CVR	Payne
Recorder-Image	Payne

SRC
 PAO
 GA
 TDA

Notes

4/10/2018 10:01:49 AM hopj
 » Product Status changed from "Report planning meeting held. Initial staff draft due 4/24." to "Initial Staff Draft due 4/24. Board Meeting tentatively scheduled for 9/11/2018."
 3/7/2018 7:59:41 AM hopj
 » Product Status changed from "Report planning meeting held. Initial staff draft due mid- to late-April." to "Report planning meeting held. Initial staff draft due 4/24."
 3/6/2018 9:52:39 AM hopj
 » Product Status changed from "Analysis planning meeting held 1/30. Docket released 2/7. Report

Save Replicate Close

Forecast
2 1-yr Avg 10.01 16.00
2 1-yr Avg 8.47 13.56
64 1-yr Avg 21.75

Est. Complete	Elapsed Time
4/24/18	15.95
Meeting Jul-Sep 2018	11.54
reports Jul-Sep 2018	9.8
dy on tu	3.62
business iss	2.63
operator	1.68

View 6 items found

Forecast
0 1-yr Avg 0.00 0.00

Over 24 Support
 Over 24 RE Initiated
 Over 24
 Over 24
 View Details

Railroad, Pipeline and Hazardous

Sunshine Avg Month
 Notation Avg Month
 Del. PC Avg Month
 Other Avg Month

Sunshine 6-12
 Notation 6-12
 Del. PC 6-12
 Other 6-12

