### ATTON THE SPACE. TECHNOLOGY

- A PUBLICATION OF THE McGRAW-HILL COMPANIES · \$5.00 · AUGUST 18, 1997



# AIR SAFETY REGULATION

## Turbulence Ahead?

PAGE 37

0300 006091342 803 0198 000001 LIBRIS 7999 144 BLVD KRIM BELKACEM 039 ALGERIA

# AVIATION WEEK SPACE TECHNOLOGY



### About the Cover

A Boeing 757 is placed in a montage illustrating a landing ahead of threatening weather. The responsibility of regulatory authorities to oversee a safe aviation system is the focus of this week's cover story package (see p. 37). Photo montage by Erik Simonsen.

### **HEADLINE NEWS**

Guam probe targets weather, altitude alert Investigators review performance

of DME systems before KAL crash

FAA tests altitude alerts To uncover common problems

Safety of nonprecision approaches examined But will be years before navigation systems with 3-D are available

Taiwan Do. 228 crash kills 16 Hits mountain while landing

Cargo loading focus of Fine Air crash probe DC-8 may have left the ramp with its center of gravity too far aft

Mir repairs loom as water dwindles Solar array fixes due this week

Ariane launches new era for satellite TV business Programming to South America

Indonesian sale could expand Russian prospects in region Intends to buy Su-30MK combat aircraft and Mi-171V helicopters

Shuttle mission boosts comet theory Should return with wealth of astronomy, Earth atmospheric data Mars Rover encounters new challenges Achieves 100% mission success

### **AIR TRANSPORT**

New commercial aircraft demand holding firm Load factors underpin market

Airbus A330-200 aims to succeed U.S. rival To vie with 767

Boeing buys stake in maintenance center Provides added punch in China

Boeing speeds work flow Simpler configurations, assembly

AlliedSignal wins Hong Kong contract

78

34

35

36

16

For simultaneous ops at CLK

### Behind the Scenes

Space Technology Editor Joseph C. Anselmo (right) has seen the spectacle of a rocket roaring off the pad from three continents. But for Anselmo, nearly the same excitement is being generated by the burgeoning commercial opportunities being offered by satellites. To cover the dawn of the Latin American market for direct-to-home TV, Anselmo traveled to French Guiana for the launch of PanAmSat's PAS 6 (p. 32). Here, Anselmo chats with Roger Solari, Ariane's operations director at Kourou.



29

30

32

33







| AIR | SAFETY | REGU | LATION |
|-----|--------|------|--------|
|     |        |      |        |

Intense scrutiny shapes new direction of FAA Becomes stricter in interpretation of regulations

FAA users attack political winds that pull agency apart Readiness to meet future doubted

Aviation directors to explore expanded ICAO safety role Due to global sprawl of industry

Europe pushes broader oversight role for JAA Goal is FAA equivalency

New duties, short staff challenge safety board 46 Due to major crashes, politics

Public opinion, not safety, shaping FAA enforcement Called 'at times, overzealous'

Airlines and FAA agree on goals, differ on achievement 50 Enforcement called uneven

Industry initiatives aim to improve engine reliability As airline departures increase

**Business** aviation outpaces FAA assets Hindered by inadequate staffing

FAA pilots claim managers risk safety Say agency has relaxed standards of technical expertise for managers FAA inspection system works, but challenges loom Inspectors: agency has been adrift 60

### INFORMATION **TECHNOLOGY**

38

41

51

55

EDS sees major growth for airline management services From ticketing to maintenance 65

NASA software provides real-time tunnel data To aid aircraft designers

### **AERONAUTICAL ENGINEERING**

Lockheed Martin gains in Korea with KTX-2 Partnership with Samsung cited

### **AEROSPACE FORUM**

Sino-Russian ties: implication for the West? Threat to U.S. security feared

### SPACE TECHNOLOGY

Builder of smallsats readies big expansion To test successes on larger scale

Rapid prototype mapboards used to plan rover trek Provide more exact data

### **AVIONICS**

Manufacturer attempting jump from video games to simulators 76 Processing power advances cited

### http://www.awgnet.com

Aviation Week's Web site offers selected articles from the current issue, as well as daily news updates, the Safety Resource Center, a gallery of photos and features from special issues. It's also a great jumping off spot for surfing to other aerospace sites. We're available on CompuServe, too;

just GO AWG.

### INTERNATIONAL **PRODUCT NEWS**

2-D bar code system can help passenger-luggage matches Simplifies, speeds positive IDs

Float system gives Twin Otter amphibious capability Now can act as water bomber

### **DEPARTMENTS**

69

Correspondence......6 Who's Where.....8 Market Focus.....11 Industry Outlook ......13 Airline Outlook......15 News Breaks......16-17 Washington Outlook......19 Aerobyte ......66 Filter Center......76

Classified ......96

Aerospace Calendar ......107

Contact Us......109

### **EDITORIAL**

Open letter to Jane Garvey......110

82