

National Transportation Safety Board

Lessons from the ashes: The critical role of leadership in promoting safety

Robert L. Sumwalt, III

Thomson, GA February 2013



Accident aircraft prior to N-number change to N777VG.











Left wing at edge of tree line





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TEAS FAIL	PRESSURIZATION RELECT ALT AUTO	RADAR

- Pilot did not refer to, orcomply with, AbnormalProcedure.
- With anti-skid failure, the required landing distance exceed the available runway length at Thomson.



Accidents Involve Many Factors





Teterboro, NJ February 2005





Lexington, KY August 2006





Chatsworth, CA September 2008





Manteo, NC October 2010





Accidents Involve Many Factors





New Brighton, PA October 2006





Chicago, IL November 2007





Buffalo, NY February 2009

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Washington, DC June 2009





Goodwell, OK June 2012



Near Koehn Dry Lake, CA October 2014

"Scaled Composites fail[ed] to consider and protect against the possibility that a single human error could result in a catastrophic hazard to the SpaceShipTwo vehicle."



Near Santa Fe, NM June 2009

"Contributing to the accident was an organizational culture that prioritized mission execution over aviation safety.



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Talkeetna, AK March 2013





"Also causal was the Alaska Department of Public Safety's punitive culture and inadequate safety management, which prevented the organization from identifying and correcting latent deficiencies in risk management and pilot training.

Roswell, NM April 2011







"Gulfstream's focus on meeting the G650's planned certification date caused schedulerelated pressure that was not adequately counterbalanced by robust organizational processes to prevent, identify, and correct the company's key engineering oversight errors."



2011.

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crash that killed four employees.

An artist's rendering of a General Dynamics Corp. Quitstream Q850. Source: Business Wire via Bioomberg Pressure to speed flight tests of a new model of General Dynamics Corp.'s Gulfstream Pressure to speed tlight tests of a new model of General Dynamics Corp.'s Guitstream business jet so it could win U.S. certification for sale was blamed by a U.S. safety agency for erash that billed four employees The National Transportation Safety Board yesterday ruled that Gulfstream management wa The National Transportation Satety Board yesterday ruled that Guiltstream management wa responsible for the accident that sent a G650, which costs \$65 million and has the longest range of any private aircraft, diding off a Roswell, New Mexico, runway in flames on April responsible for the accident that sent a G650, which costs \$65 million and has the longest range of any private aircraft, sliding off a Roswell, New Mexico, runway in flames on April 2

Gulfstream Managers Blamed for Fatal Crash on Test Flight

by Alan Levin

October 11, 2012 - 12:00 AM EDT



Hardwood Manufacturer

Managers Blamed for

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Fatal Accident

Odober 11, 2012 -- 12:00 AM EDT









"The best way to predict the future is to create it."

- Peter Drucker



Creating a Future of Safety: Four Leadership Questions 1. How strong is our safety culture? 2. Are we really living our values? 3. Are we fooling ourselves? 4. Are we measuring and rewarding the right things?



Creating a Future of Safety HOW STRONG IS OUR SAFETY CULTURE?



Safety Culture is:

"Safety culture is the core values and behaviors resulting from a collective commitment by leaders and individuals to emphasize safety over competing goals to ensure protection of people and the environment."

Source: U.S. Nuclear Regulatory Commission



Do you have a good safety culture?



Do you have a good safety culture?

- "... it is worth pointing out that if you are convinced that your organization has a good safety culture, you are almost certainly mistaken."
- "... a safety culture is something that is striven for but rarely attained...."
- "... the process is more important than the product."
 - James Reason, "Managing the Risks of Organizational Accidents."



Safety Culture is:



Safety culture starts at the top of the organization and permeates the entire organization.

Sometimes the Message gets Distorted




WORD OF THE DAY Friday, March 11, 2016

align ment noun \a-'Iīn-mant\

Where the leaders and front line employees, and everyone in between, share and practice the same values.



Alignment





How leaders influence safety

"The safety behaviors and attitudes of individuals are influenced by their perceptions and expectations about safety in their work environment, and they pattern their safety behaviors to meet demonstrated priorities of organizational leaders, regardless of stated policies."

- Dov Zohar, as cited in NTSB accident report



Metro-North Railroad





Metro North management is committed to workplace safety and participates regularly in safety events.





Management does not pressure staff to maintain service or operations, potentially at cost of safety.





Employee Comments

- "Sometimes I feel safety is priority one as long as it's convenient."
- "Metro-North pays lip service to safety. On time performance & budgets take precedence over safety."
- "The railroad only cares about the on-time performance."
- "It's all about on-time performance and safety rules are thrown out the window to keep on time performance. Management has no clue."





December 10, 2015

We aspire to be:

- Most loved airline.
- Most flown airline.
- Most profitable airline in the world.





December 16, 2015













December 10, 2015

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Creating a Future of Safety

ARE WE REALLY <u>LIVING</u> OUR VALUES?





Is safety the top priority of your organization?

 Don't make it a priority – make it a <u>core value</u>.



Living the Values

- In a successful organization, everything you do is run through the filter of your core values to make sure you are being true to them.
- And, most importantly, you must live those values.



The Leader's Role

 As a leader, your role is to ensure that your organization has safety as a core value and then, most importantly, you do everything you can to live those values.









CVS Stops Tobacco Sales



"The sale of tobacco products is inconsistent with our purpose – helping people on their path to better health." - Larry J. Merlo, CEO, CVS Health



"This move is clearly in-line with their stated purpose and values, a move we don't see often enough today in corporate America. Relying on a strong foundation of values is often what sets market leaders apart from the pack."

- Michael Woody, Ph.D. for Fox Business



"Think of values as the core guiding principles that act as the foundation of your organization. These principles should guide every decision and serve as your fallback in times of uncertainty."

- Michael Woody, Ph.D. for Fox Business





- Organizations with strong leaders are those organizations that ensure their values are aligned and lived throughout the organization.
- They do the right things by caring for the safety and health of their employees and customers.
- Because of their commitment to values and caring, they have greater potential to perform well financially.



- What are your values?
- Is safety and health of your employees and customers one of your values?
- Are you truly living your values?



Creating a Future of Safety ARE WE FOOLING OURSELVES?



An Impressive Operation





An Impressive Operation

- Full time crew
- Impeccable maintenance
- High training standards
- Going above minimum standards
- Positive audit comments



Positive Audit Comments

- "The [Safety Management Systems (SMS)] of this operator is well-developed"
- "Best practices are consistently employed in all facets of the program"
- "Continuous SMS improvement is actively pursued"
- "The Flight Ops Manual is remarkably well-written and comprehensive"
- "Safety culture within the department is shared among all team members"
- "Open reporting of hazards is consistently encouraged by management"
- "Solid safety program, maturing nicely"



"You can fool the auditors, but never fool yourself."

- John Fenton



And, fool the auditors, they did...



Gulfstream G-IV Crash Bedford, MA May 31, 2014 7 Fatalities



And, perhaps they even fooled themselves.



"Good can be Bad"

- With good safety performance, people/organizations can easily become complacent.
- Don't ever believe that a lack of accidents means you are "safe."
- To counter this complacency, there must be a <u>leadership</u> obsession with continuous improvement.

- Courtesy of Jim Schultz



Are you on the right track?

"Even if you're on the right track, you'll get run over if you just sit there."

- Will Rogers



Creating a Future of Safety

ARE WE MEASURING AND REWARDING THE RIGHT THINGS?



Metro North Railroad





Metro North Railroad

"We were geared towards using the on-time performance number as a metric. And the philosophy was if we can deliver trains on time, all of the supporting activity that we did, track maintenance, signal maintenance and rolling stock maintenance must be performing well if we can deliver that high degree of service reliability."

-Metro North SVP Operations



What do you measure and reward?



- Are you measuring the right things?
- Are they the most appropriate predictors of catastrophic events?









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