

NTSB National Transportation Safety Board

Establishing and Maintaining Safety Culture

Robert L. Sumwalt Vice Chairman

Do you have a safety culture?

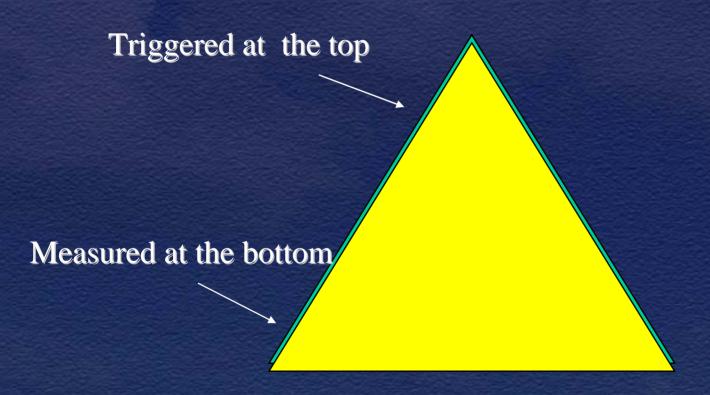


Do you have a Safety Culture?

- "... 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.

Safety Culture

 Doing the right thing, even when no one is watching.



- Management Commitment and Emphasis
- Standardization and Discipline
- Training
- Data Collection and Quality Control Programs



- Management commitment and emphasis on safety
 - Safety begins at top of organization
 - Safety permeates the entire operation



NTSB Perspective



We've found through years of accident investigation that sometimes the most common link is the attitude of corporate leadership toward safety.



NTSB Perspective



The safest companies have more effectively committed themselves to controlling the risks that may arise from mechanical or organizational failures, environmental conditions and human error.



Standardization and Discipline

- Management stresses need for these items
- Strict compliance with Standard
 Operating Procedures



What Safety Board investigations have found...

Lack of established procedures

 Failure to follow established procedures



Clymers, Indiana





Probable cause:

 failure of ... management to develop and implement safe procedures for offloading [hazardous] wastes....

 NTSB report: Rupture of a railroad tank car containing hazardous waste, Clymers, Indiana, February 18, 1999.



Biloxi, Mississippi





Probable cause:

- Failure of Premium Tank Line, Inc's officials to follow established company procedures...
- The company's lack of adequate procedures for dispatching drivers and delivering cargo to customer facilities
- Failure of [company] to have adequate safety procedures for accepting product offered for deliver at its service stations...
 - NTSB report: Overflow of gasoline and fire at a service station-convenience store, Biloxi, MS, August 9, 1998.



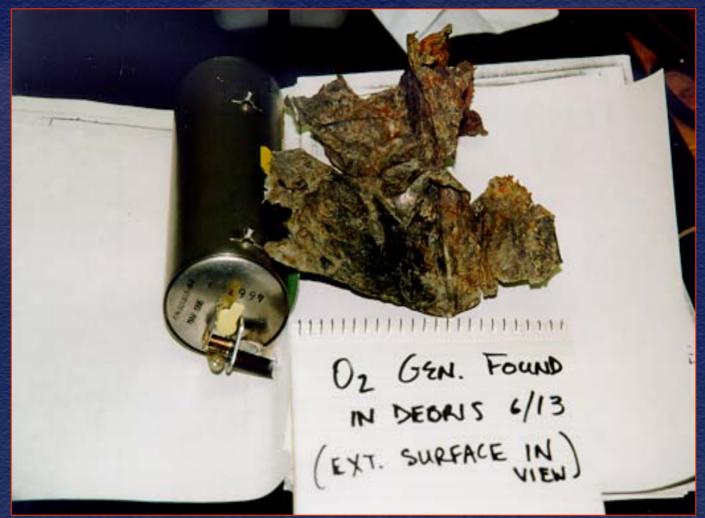
- Training
 - Strong oversight of training
 - Ensure training standardization and discipline are maintained

ValuJet Flight 592





ValuJet Flight 592





Contributing to the Accident:

- "...ValuJet's failure to ensure that both ValuJet and contract maintenance facility employees were aware of the carrier's 'no carry' hazardous materials policy and had received appropriate hazardous materials training."
 - NTSB report of In-Flight Fire and Impact with terrain. ValuJet Airlines. Everglades, Florida. May 11, 1996.



- Data Collection and Quality Control Programs
 - data-driven risk management
 - safety audits
 - confidential incident reporting systems



Data is starting point of action

- Data creates information
- Information creates knowledge
- With knowledge, we can manage risks
- When we manage risks, we are taking action.



Data collection and analysis

- The organization collects and analyzes "the right kind of data" to keep it informed of the safety health of the organization
 - collects, analyzes
 and disseminates information
 on incidents and near-misses,
 as well as proactive safety checks.

- Dr. James Reason



Data collection and analysis

1. How do you keep your finger on the pulse of your operations?

2. Are you taking proactive measures?

3. Do you have multiple data sources?





Are employees comfortable reporting?

- Employees are open to report safety problems
 - Assurance that information will be acted upon
 - Confidentiality will be maintained or the data are de-identified
 - Assurance they will not be punished or ridiculed for reporting
 - Non-reprisal policy signed by CEO



Non Reprisal Policy December 2005

SCANA Aviation Department is committed to the safest flight operation possible. Therefore, it is imperative that we have uninhibited good faith reporting of any hazard, occurrence or other information that in any way could enhance the safety and efficiency of our operations. It is each employee's responsibility to communicate any information that may affect the integrity of flight safety.

We will not use this reporting system to initiate disciplinary proceedings against an employee who discloses in good faith a hazard or occurrence involving safety which is the result of conduct which is inadvertent, unintentional or not deliberate.

We urge all employees to use this program to help this Department be a leader in providing our passengers and our employees with the highest level of flight safety.



Just Culture

"An atmosphere of trust in which people are encouraged, even rewarded, for providing essential safety-related information, but in which they are also clear about where the line must be drawn between acceptable and unacceptable behavior."

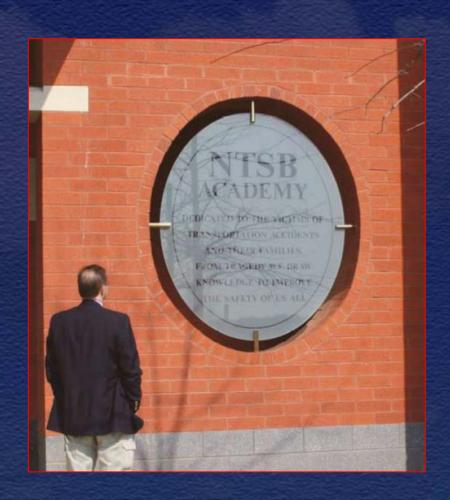


- Management Commitment and Emphasis
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Do you have a safety culture?





"From tragedy we draw knowledge to improve the safety of us all."





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