Successes and Challenges of SMS Implementation at Miami Air International



Background

- Miami Air:
 - US Part 121 Air Carrier (Charter)
 - 7 Aircraft
 - Two (2) 737-400
 - Five (5) 737-800
 - 400 Employees
 - SMS Level 4 carrier according to FAA SMS Pilot Program



Background

- In 2008, then President and CEO of Miami Air, Ross Fischer made the conscious decision that Miami Air would implement SMS.
- In early 2012, new Miami Air President Jim Proia decided that he would continue supporting SMS, as his predecessor did.
- Bottom line:

It takes firm support from the top to implement and continuously maintain an SMS

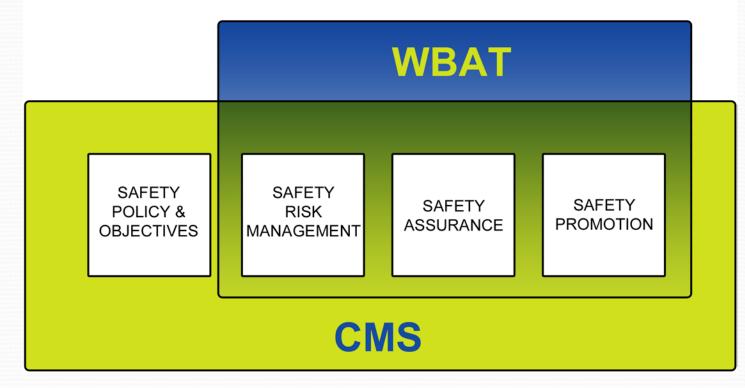
SMS Challenges

- "We're too busy, don't have the time"
- "We don't have money, how much will this cost?"
- Fear of Punishment
- Tribal Knowledge
- Silo Mentality
- Fear of Change



Building Miami Air's SMS

SMS INTERFACE BETWEEN WBAT AND CONTENT MANAGEMENT SYSTEM



Swiss Cheese Model

CFR's

Organization

Equipment design, training, procedures

Front line employee

CMS

WBAT



Successes

Fear of Punishment

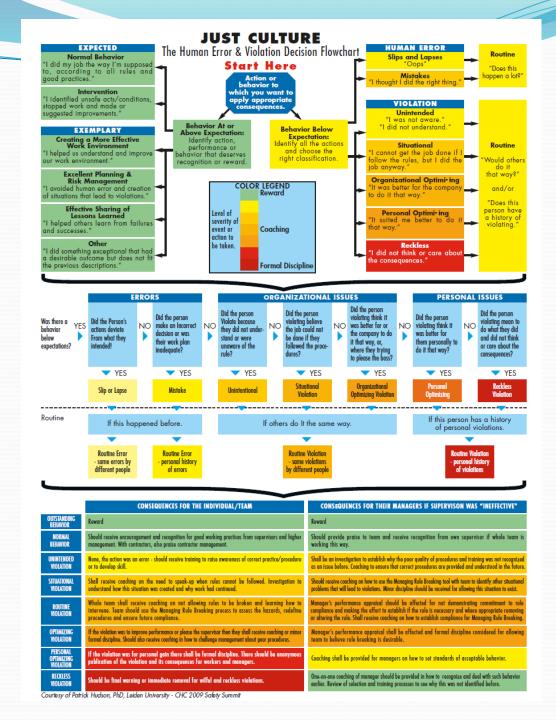
- WBAT Reporting System—from puddles in parking lot to reckless conduct (flag incident)
- FAA Voluntary Self Disclosure Programs

Tribal Knowledge

- Used xml-based Content Management System to:
 - Document Tribal Knowledge
 - Manage Change
 - Content Consistency



Just Culture Chart



Successes

Silo Mentality

- Tech Pubs Reorganization
- Management of Change
 - 1. During initial design of system, organizations and/or products
 - 2. When developing new operational Procedures
 - ^{3.} When a Hazard has been identified
 - 4. When considering change to an operational Process
- Safety Action Groups

Fear of Change

- Education
- Training/Promotion

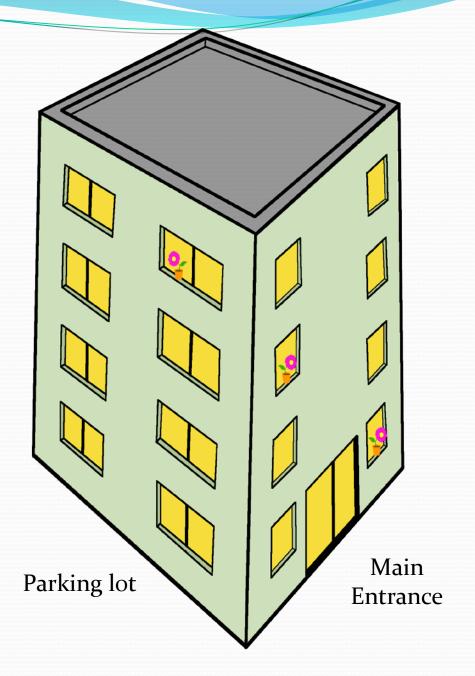
Insurance benefits

- Significant discounts
- Insurance credits



Managing Risk

Which of these flowerpots may end up causing the greatest damage?



Managing Risk

• Miami Air's Risk Management Matrix

SEVERITY LEVEL						LIKELIHOOD LEVEL				
						A	В	c	D	E
RATING	PHYSICAL INJURY	DAMAGE TO THE ENVIRONMENT	DAMAGE TO ASSETS	POTENTIAL INCREASED COST OR REVENUE LOSS	DAMAGE TO CORPORATE REPUTATION	IMPROBABLE	UNLIKELY	REMOTE	PROBABLE	FREQUENT
0	NO INJURY	NO EFFECT	NO DAMAGE	NO INCREASED COST OR LOST REVENUE	NO IMPLICATION	ACCEPTABLE				
1	MINOR INJURY	MINOR EFFECT	MINOR DAMAGE (< \$50K)	MINOR DAMAGE (< \$50K)	LIMITED LOCALIZED IMPLICATION					
2	SERIOUS INJURY	CONTAINED EFFECT	SUBSTANTIAL DAMAGE (< \$250K)	SUBSTANTIAL DAMAGE (< \$250K)	REGIONAL IMPLICATION					
3	SINGLE FATALITY	MAJOR EFFECT	MAJOR DAMAGE (< \$750K)	MAJOR DAMAGE (< \$750K)	NATIONAL IMPLICATION	ACCEPTABLE WITH MITIGATION				
4	MULTIPLE FATALITIES	CATASTROPHIC EFFECT	CATASTROPHIC (> \$1 M)	CATASTROPHIC (> \$1 M)	INTERNATIONAL IMPLICATION				UNACCEPTABLE	

Managing Risk

Internal Evaluation Program Audit Findings

- 2012: 91 (2 high risk, 7 medium, 29 low)
- 2013: 76 (2 high risk, 12 medium, 29 low)

Incident Reports

- 2012: 76
- 2013: 54

Safety Perception vs. Reality



PERCEPTION

REALITY

Safety Payoff

Letters of Investigation (LOI)

- 2012: 18 (5 resulted in \$\$ penalties—\$11,800)
- 2013: 4 (3 resulted in \$\$ penalties—\$7,500)

Workman's Comp

- 2012: 28 injuries (\$205,000)
- 2013: 24 injuries (\$160,000)

Insurance reductions

- 2012: est. 10% premium reduction + \$30k safety credit
- 2013: est. 10% premium reduction + \$50k safety credit

 "Successful SMS implementation starts with upper management and FAA involvement and support, requires a few tools and a lot of hard work, but in the end, it's all worth it."

Questions?



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