

CAESN April 30, 2007

BOMBARDIER

Context of SMS at Bombardier Aerospace

- Multi-certificate holder with operations world wide
- SMS currently applicable to our Approved Maintenance Organization (AMO) and some aspects of our Flight Operations
- Recognize SMS is the right approach and have completed 95% of our company wide Gap Analysis

Multiple TCs/STCs

PC/POA/ Manufacturing

> AMO/BAS/ CAS

Operator (Flexjet/Shuttle)

Training/
Distribution

DAO/DOA/DAS

SMS is currently being implemented for all of Bombardier Aerospace

Pre-requisites for Communicating Risk and Safety Performance

- In order to best communicate risk and safety performance internally within Bombardier, and externally to our customers and regulatory agencies, we must have good, reliable data
- This data must be gathered and reported in a consistent fashion in order to maintain credibility
- This data must help us understand what presents the greatest risk and what needs to be fixed
- The safety culture must be in place in order to ensure we focus on the safety performance of the product, and avoid "playing the numbers"
- There are no "magic algorithms" that can be applied to all data to define or anticipate the next emerging safety issue

Fundamental basis for communication is good, reliable, consistent data

Safety Performance =

Measuring the number of discovered problems that represent an unknown and known safety risk.



unknown & known safety risk



technical resolution and corrective action implementation

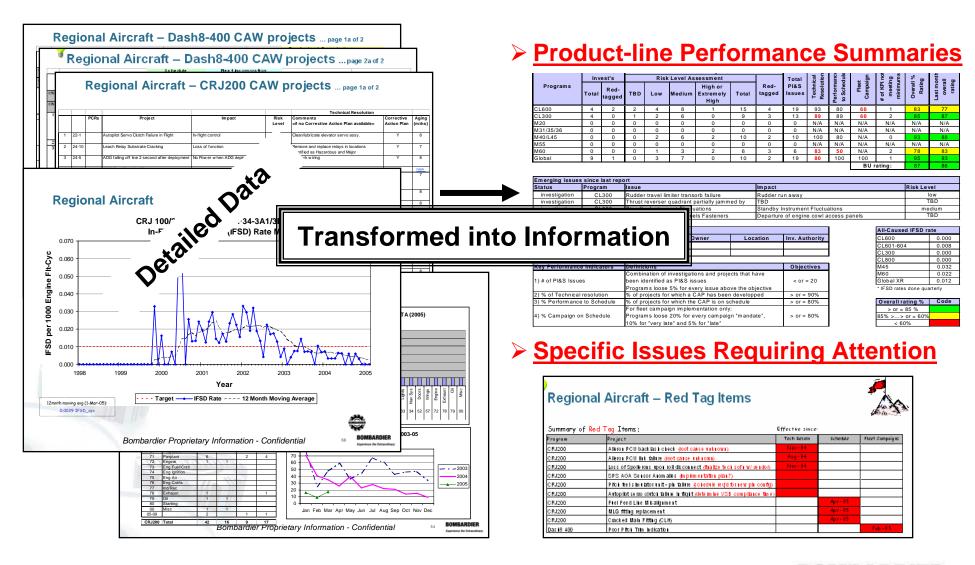
Measuring our performance in reducing that risk through technical resolution and implementation of corrective action.

Internal Communication of Risk and Safety Performance

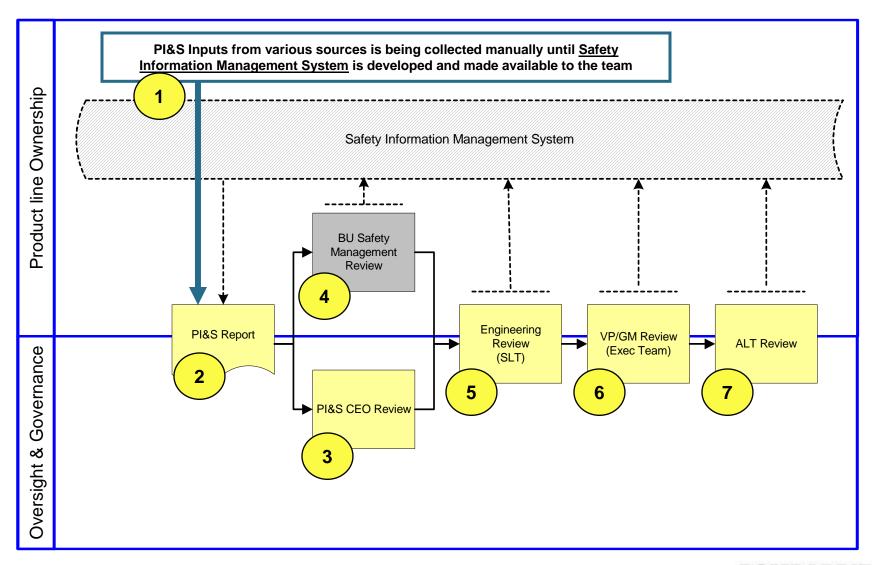
- Communication of risk and safety performance at Bombardier is managed through a scorecard approach, with drill downs to the identified risks and safety performance, followed up with different management level reviews
- A monthly "Product Integrity and Safety" report is produced that captures all potential safety issues that have been identified to Bombardier
 - This report contains the top level product line performance scorecards, as well as all the details of these issues including the determined risk
 - This report also identifies emerging issues, trends and specific issues requiring attention

Bombardier utilizes a scorecard approach for internal communication

Product Integrity & Safety Report



Risk and Safety Performance Management Reviews



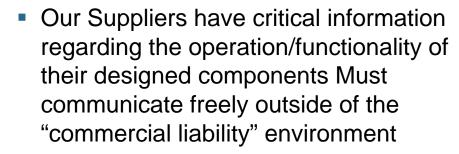
External Communication of Risk and Safety Performance

Operators



- Our Operators can identify those operational hazards that need to be considered in establishing risk
- High level of safety performance is expected, not communicated

Suppliers



 Suppliers do not understand risk at the aircraft level, so they must be integrated into our safety network

SMS Implementation must integrate Suppliers and Operators

External Communication of Risk and Safety Performance

Regulatory Agencies

- Migrated from qualitative to quantitative approach to reduce emotional based discussions
- At Bombardier, Continuing Airworthiness Assessment communicates the risks
 - Documents the hazard, determined risk, mitigating actions (if any) and proposed corrective action plan
- For safety performance communications, we do not currently have a accepted means to communicate with TCCA, and in its absence, it is performance to commitments and perception

Communication means with Authorities must be understood and agreed