Human Factors in Aviation Maintenance Symposium

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This Year’s Theme
Safety Management
Flight 2005

A Civil Aviation Safety Framework for Canada
Canada’s Civil Aviation System

Canada enjoys one of the safest civil aviation systems in the world. This is due to the excellent work of Civil Aviation’s partners in Canada.
Public Perceptions

Low accident rates are meaningless
Number of accidents is criterion
Accidents must decrease
Raising the Flight Level

Continuous efforts are being made to improve safety but a lot more still needs to be done
Accidents: 1999

1999 Aviation Accidents involving Canadian Registered Aircraft were 12% below 1998 and 8% below the 1994-1998 five year average.
Areas Where We Can Improve Safety

Aircraft
System
Facilities
Operator
Past Accident Reduction

Historically we have been reactive

- Examination of accident wreckage
- Analysis of “black box”

Produced a very low accident rate

Accident rate now at a plateau

Reactive approach no longer effective
Future Accident Reduction

In the future we must be proactive
Identify and eliminate adverse trends
Stop accidents before they happen

Confidential error reporting programs, Human and Organizational Factors, and efficient resource management can help.
Our Challenges

Technological advances place increased demand on Transport Canada Civil Aviation

Global and geographic realities

Increased traffic

Establish Strategic Approach which:
• builds on our excellent safety record
• brings the Canadian aviation industry to a new level of safety
We Are Here for Aviation Safety

Strong values of professionalism, service, respect and teamwork

Consistent Operating Principles
Evolving Directions

Aviation Safety Data -
Adopting a data-drive approach in developing strategies to enhance safety

Resource Allocation -
Using a risk-based approach to resource allocation for regulatory activities

Partnerships -
Emphasizing the consultative approach with the aviation community
Evolving Directions

Safety Management -
Implementing safety management systems in aviation organizations

Human & Organizational Factors -
Taking account of human and organizational factors in safety management practices

Communications -
Proactively communicating with targeted audiences on aviation safety
Setting Targets

Need to move from broad safety aims to specific and significant targets.

Ambitious goals for reductions in aviation accidents:

Reducing the aviation accident 5 year average by 25%.

Increasing positive public responses in opinion research from 77% to 90%.
Target Summary

Airline (705)
.7/100K hrs by 40%

Commuters (704)
3.7/100K hrs by 50%

Air Taxi (703)
8.1/100K hrs by 50%

Aerial Work (702)
3.4/100K hrs by 20%

Recreational
6.7/100K hrs by 10%

A high level of public confidence in our Civil Aviation program
Key Results

Continued Improvement on the High Level of Aviation Safety in Canada

A High Level of Public Confidence in our Civil Aviation Program