Project Cabin Safety Culture

IDENTIFY OPPORTUNITIES OF SAFETY INNOVATIONS

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ABSTRACT

This paper is about a Cabin Safety and Crashworthiness Research Project that was con-

ducted by industry researchers from an Aircraft Original Equipment Manufacturer with the

goal to identify opportunities of safety innovation in the cabin interior and in the processes in-

volved on the cabin development to improve occupant in-flight safety and crashworthiness.

The project considered Defense, Commercial and Executive Aviation. The research method-

ology involved the following fields: survivable aeronautical accidents; available safety stan-

dards, guidance's and regulations from aeronautical, nautical, automotive and railways; inter-

view with aircraft operators, owners and regulatory authorities and applicable emergent tech-

nologies.

The expected result of the project is the consolidation of each mentioned research field

with the identification of opportunities for innovation and improvements in Cabin Interior

design and Crashworthiness with the increase of Cabin Safety Culture. In addition the re-

search will result in a portfolio of data to drive the second phase of this project in which will

define recommendations, procedures, and tools for the product development process ori-

ented by occupant safety and crashworthiness awareness.