ICE GENESIS Public Forum Technostream Snow

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Rational

- H/C manufacturers need to demonstrate safe operations in falling and blowing snow conditions
- Demonstration is performed at the end of the program development during certification flights.
 - The flight tests in natural snowstorms, beside their intrinsic risk, are difficult to schedule due to the rarity of events; fewer than 4% of all snowstorms conform to the requirements reported in the AMC
 - Any issue found at this stage of the development can lead to significant delay and cost to redesign the air inlet or integrate protection systems



H175 F/T Snow



Preliminary RTA Snow Capability

There is a need to develop SNOW TEST & NUMERICAL CAPABILITIES to de-risk power plant system design before in-flight demonstration and as such, secure future program DEVELOPMENT AND CERTIFICATION



A400M snow ground test capability



Overview





- Flight Test and Ground Test campaigns CNRS, EPFL
- Characterization of snow microphysical properties CNRS, EPFL
- NRC snow test capability NRC
- RTA snow test capability RTA
- Snow numerical capability TUDA, ON







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THANK YOU



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