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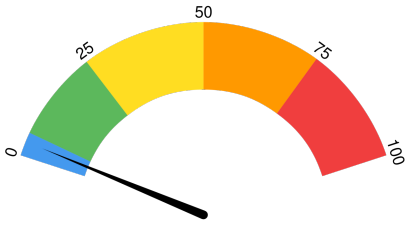

Case Analysis

— *by Homework Solutions*

Submission Date:	2021-03-18 19:58:36 +0300
Submission ID:	AE11CF6918
File Name:	Case_Analysis.docx
Word Count:	351
Character Count:	1,963

Aviation Accident Analysis

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Aviation Accident Analysis

The aviation industry has suffered accidents due to several reasons, such as mistakes, improper environmental and crew teamwork considerations, and technological expertise weaknesses (Hamilton, J. S., & Nilsson, S. 2020). This analysis aimed to investigate and classify the accident's contributing factors of a Scandinavian Airlines system that flew from Stockholm crashed a few minutes after takeoff. The accident occurred on 27 December 1991. The accident was due to a combination of errors. Firstly, it was not enough to take clear ice from the wing surface through company orders, protocols and even machinery. Therefore, the transparent ice was broken down by the wings and consumed by motors during start-ups, and the engine fan phases caused destruction, resulting in motor surges and failure. The pilot could not recognize the issue and take the requisite action with sufficient expertise and experience.

The crew did not have the expertise (SAS) in applying the Automatic Thrust Recovery system (ATR) within. Another factor was the slow reaction to emergencies over flap and speed for approach and landing. Finally, it can be inferred that insecure prerequisites for preparation, orders and operative procedures produced by the SAS organization are blamed on mistakes and errors of pilot and engineer, leading to an accident (Monika et al., 2021). It was concluded that the convergence of many causes such as unclearly written protocols, insufficient formation, mistakes, unexpected operating conditions and individual opinions led to this accident.

The aviation team should therefore be aware that unequivocally written protocols, lack of experience, unpredictable operating circumstances or individual decisions. Other errors may result from inadequate or improper airspace design or crew coordination. However, the transparent ice forming on the top of the wings has not been identified and de-iced as an initial occurrence.

References

Monika, Verma, S., & Kumar, P. (2021). A Comparative Overview of Accident Forecasting Approaches for Aviation Safety. *Journal of Physics: Conference Series*, *1767*(1), 012015. https://doi.org/10.1088/1742-6596/1767/1/012015.

Hamilton, J. S., & Nilsson, S. (2020). Practical aviation & aerospace law (7th ed.). Aviation Supplies & Academics.

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