



# PHENOM 100/E/EV - OPERATIONAL ENVELOPE ASSESSMENT

March 2019



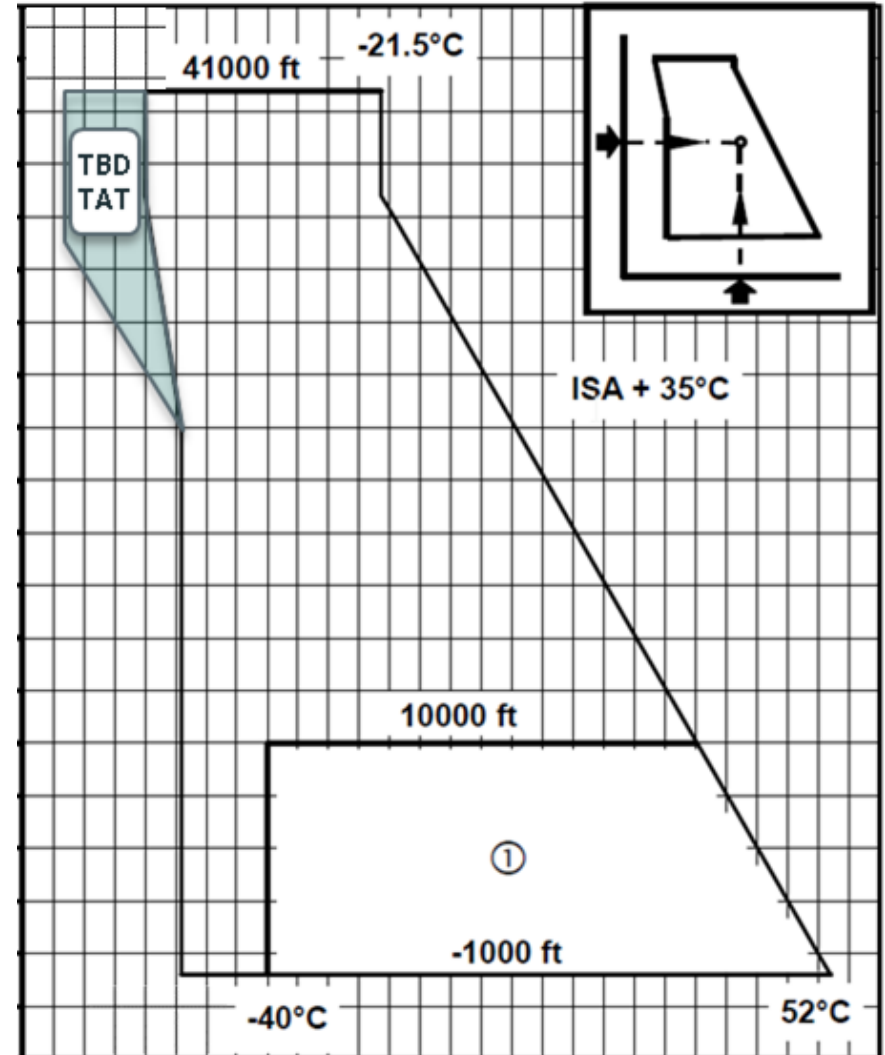
# SCENARIO

- During Phenom 100/100E/100EV flights, some operators are facing cruise temperature scenarios below current aircraft envelope limits (-60°C) mainly during winter season
- The situation has been discussed within EJOA forum by some current operators
- Mr. O'Maley (EJOA President) contacted Embraer in order to request support regarding understanding and explaining the situation to the Association.



# ANALYSIS

- Phenom 100/E/EV Customers/operators feedback indicate ability to operate in temperature below those indicated in the aircraft operational envelope would be beneficial
- Current Aircraft operational envelope components and major structure parts are qualified and certified down to  $-54^{\circ}\text{C}$
- Based on the facts above, Embraer will conduct a study with the purpose of providing an operational envelope extension (as highlighted in the picture) using minimum TAT value (Same methodology applied to E2 family)
- There will be a complete technical assessment with some interactions with the airworthiness authorities in order to validate the proposal
- As the study evolves, Embraer will be able to address the final solution, including new temperatures limits, as well as the solution timeframe





# THANK YOU

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