

Appendix C

MINUTES OF CONCEPTUAL REVIEW

This appendix presents the minutes of the Conceptual Review carried out on July 12, 2021. The Conceptual Review was an Embraer Internal meeting whose objective was to analyze a conceptual project and gather feedback to verify it meets your initial Master thesis objectives.

C.1 Local

Virtual via Microsoft Teams

C.2 Participants and Job Experience at Embraer

- Product Development engineer A: 13 years
- Product Development engineer B: 18 years
- Product Development engineer C: 23 years
- Flight Test engineer: 25 years
- Instrumentation Engineering supervisor: 10 years
- Instrumentation Laboratory supervisor: 13 years

C.3 Meeting agenda

- Review Presentation
- Participant Comments

- Results

C.4 Review Presentation

The author presented the conceptual review going through the topics:

- Review objectives
- Master Thesis objectives
- Icing Tests
- Identify Customer Needs and Target Specifications
- Generate Product Concepts
- The Five Step Method
- Sensor Technologies and Measurements
- Anti-ice Technologies
- Data Processing
- Conceptual Design Analyze
- Conceptual Design selection
- Feedbacks

C.5 Participant Comments

- It was interesting to know about new technologies found for measuring ice conditions.
- Now the difficulty will be how to find the best combination of sensors.
- A great earned value for ice testing is having the requirements of Appendix C of the certification standard.
- Always remember to be within the company's goals.

C.6 Acceptance

To conclude the meeting, it was asked if the conceptual review was approved. Participants responded that the conceptual review was approved but necessary to narrow down the selections of possibilities for the system.