MADe for Airworthiness



Demonstrate Airworthiness using integrated engineering analysis

Key benefits

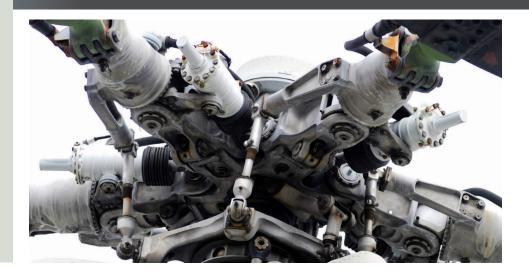
- Model based simulation
- Integrated analysis
- Automation of failure identification / mitigation
- Traceability of risk identification / mitigation
- GUI based knowledge capture / transfer / management

Key features

- Comprehensive failure concept taxonomy
- Consistency of failure concept descriptions
- Graphical representation of failure progression

The Problem: Aircraft certification for Airworthiness is an important milestone. However the accuracy and legibility of the records are not always linked or derived from the engineering analyses used for the aircraft design and maintenance planning – which can have significant technical and schedule consequences across the product lifecycle.

The Solution: The MADe software is an integrated analysis solution that generates the artefacts required for Airworthiness certification. Analysis generated concurrently with design leads to improvements in the certification process. MADe automatically tracks the source of all parameters used in an analysis to provides a means of assessing the quality of data used to support engineering decisions and analysis.



Which analyses are generated by MADe?

Engineering analyses are generated on-demand from the model of the system built during design. A key benefit is that the artefacts used to improve and validate the design can also be leveraged to document and demonstrate Airworthiness

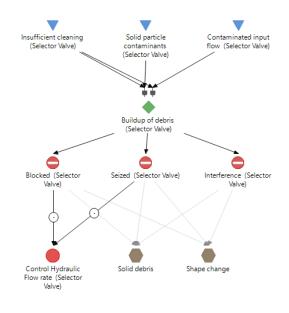
- Mission Profile identifying the typical use-cases and operation of the design
- ▶ FMECA identifying the failures and how they progress through the system
- ▶ FTA performing root cause analysis to find the initiating cause of any failure
- RCM determining the maintenance plan required to support the platform in operation

How is Annotations used to demonstrate analysis quality?

The ability to generate analyses is important, as is the ability to document, trace and demonstrate the quality and integrity of the model used to generate the analyses. Annotations demonstrate quality by documenting:

- Justification List each decision/parameter and the reasoning to support the change or decision
- Configuration Management who made the decision and when it was made
- Data source and quality the integrity of the data including the quality of the data source





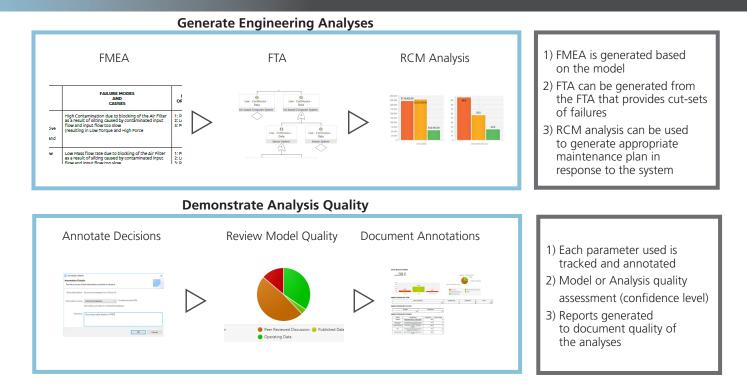
Physical failure modelling utilizing the Failure Concepts taxonomy

To arrange for a demonstration, please contact us at info@phmtechnology.com

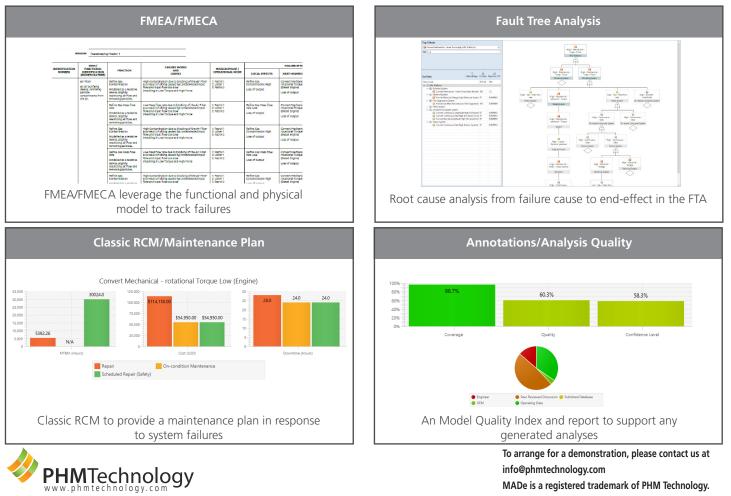
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How MADe supports Airworthiness



Key Airworthiness Analyses



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