Prenscia HBM

## M RCM++

Reliability centered maintenance

ReliaSoft RCM++ facilitates the Reliability Centered Maintenance (RCM) analysis approach for creating effective scheduled maintenance plans.

The software includes configurable capabilities for Equipment Selection, Failure Effect Categorization and Maintenance Task Selection. RCM++ also provides simulations that can be used to compare maintenance strategies based on cost and availability, and a calculator to estimate the optimum replacement interval.
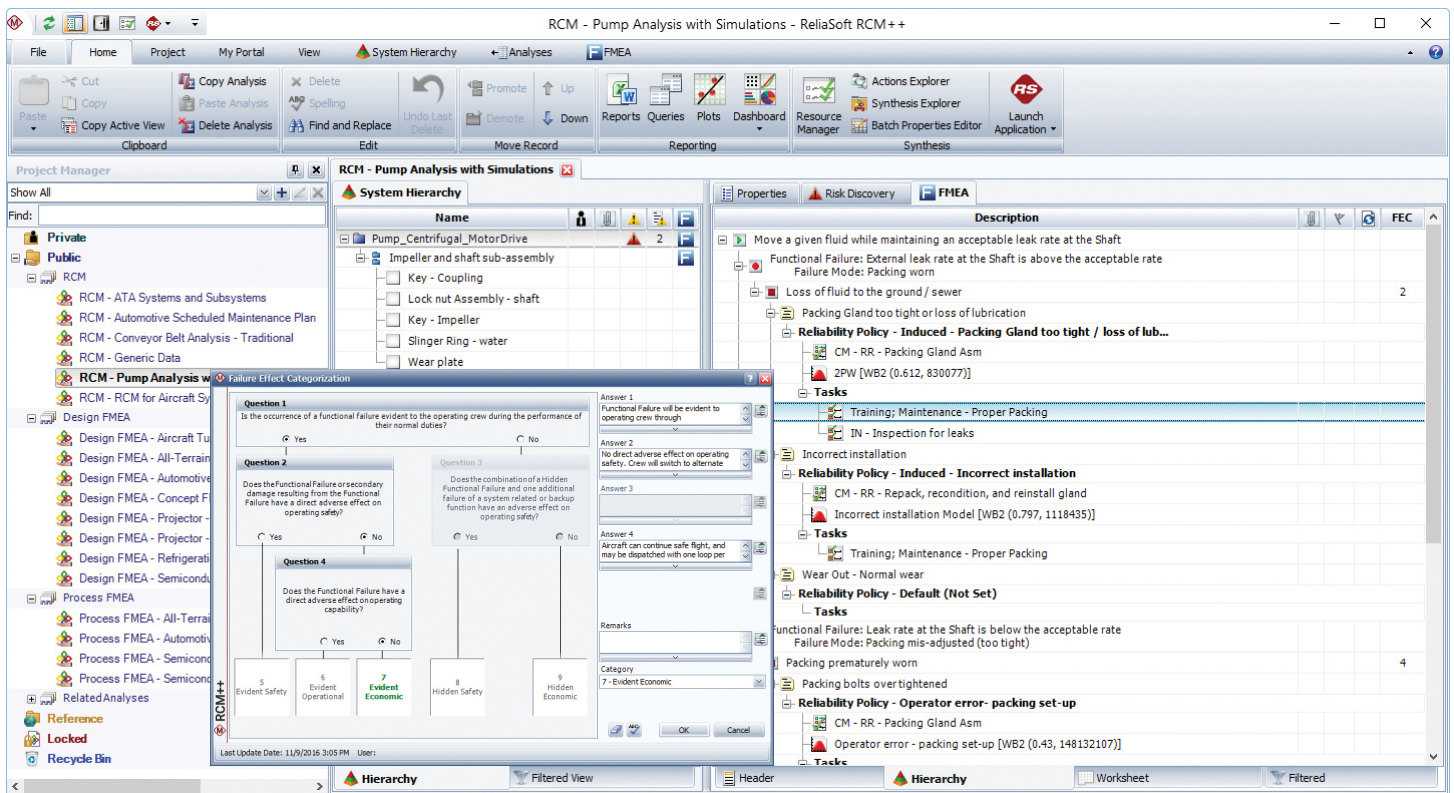
Benefits

- Develop a scheduled maintenance plan for a physical asset that will provide an acceptable level of functionality, with an acceptable level of risk, in an efficient and cost-effective manner

- Evaluate whether preventive maintenance (PM) is appropriate and determine the optimum preventive maintenance intervals

- Promote analysis processes that are more efficient and more effective, utilizing lessons learned from past analyses when applicable

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RCM++ software highlights

RCM standards

- SAE JA1011/1012
- MSG-3
- NAVAIR 00-25-403
- Highly configurable to define your own custom profiles

Support for RCM logic

- Equipment Selection
  - Yes/No Questions
  - Criticality Factors (Rating Scales)
- Failure Effect Categorization (FEC)
- Maintenance Task Selection
- Highly configurable to define your own logic charts

Maintenance strategies

- Run to failure
- Preventive Maintenance (PM)
  - Scheduled repair
  - Scheduled replacement
  - Scheduled service
  - Failure finding inspection
- Predictive Maintenance (PdM)
  - On condition inspection

Reliability calculations

- Analytical and/or simulation results
- Reliability
- Average availability
- Operating cost

Maintenance planning

- Optimum replacement time
- For a given maintenance strategy:
  - Cost per operating time
  - Average availability
- Flexible task packaging
- Teams/multiple crews for tasks
- Multiple spare part tools for tasks

Organization and data structure

- Easy to build system configurations
- 3 views for data entry
  - Hierarchy (Tree) View
  - Worksheet View
  - Filtered View

Easy to find and reuse data

- Browse or query to import existing data
- Use keywords to find and import existing record descriptions
- Copy/paste and drag/drop

Predefined reports and charts

- Equipment selection
- Functional failure analysis
- Failure effect categorization
- Maintenance task selection
- Maintenance task summaries
- Pie, bar and Pareto charts

Tools and utilities

- Custom query utility
- Customized templates for imports, queries and reports
- Analysis planning tool
- Links and attachments
- Find and replace
- Action alerts via e-mail, SMS text message or Synthesis portal message

Integrated FMEA capabilities

- Configurable for all types of FMEA
- Risk Priority Numbers (RPNs)
- Criticality analysis
- Track corrective actions
- FMEA reports, charts and dashboards

Import types

- Microsoft Excel® - build and manage custom templates for import/export
- Import from Xfmea, RBI, MPC and XFRACAS

File output

- Microsoft Excel® and Microsoft Word®
- Easily export to *.pdf, *.rtf or *.html from Word or Excel

Reliability program integration

- Use published models to define the RAMS characteristics of items
- Work with a Failure Modes and Reliability Analysis (FMRA) that is synchronized with BlockSim
- Use FMEA data to build fault trees in BlockSim
- Share system configuration and failure mode data with XFRACAS
- Import data from an MPC analysis
- Push calculated/simulated reliability and availability to metrics

Available services

- Detailed user documentation
- Practical example files
- Quick tour guide
- Training for theory + software
- Professional consulting services

For more information visit: www.reliasoft.com/rcm

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