

Cedar[®] RAM-PMO PM Optimizer

RCM Based Planned Maintenance Optimization

Concept

Ineffective Scheduled PM Policy cannot mitigate unacceptable losses due to equipment breakdown. Cedar[®] RAM - PMO PM Optimizer supports reliability based scheduled PM Policy selection of which is known as RCM process. Failure Data Analysis is used to find statistical parameters of each Failure Mode of equipment. Based on the parameters and selected standard CM-Unplanned and Scheduled PM policies are analyzed to find the most applicable type and interval of PM Task. This reveals expected spare part for Planned Maintenance that can be managed by scheduled purchase process while the unplanned ones can be managed by Stock. Expected Part Demand for Unplanned Maintenance is used as input of Cedar[®] RAM - SPO Spare Optimizer to calculate stock recommendation. By varying maintenance parameters the optimum PM interval can be identified. Users can work out both optimum risk based stock recommendation and optimum scheduled PM policy at the same time. As a value added, this brings about Rationale Maintenance Budgeting.

Features:

- ❖ Classical and Fast Track RCM Analysis Customize-able Asset Criticality Scoring
- ❖ Support SAE JA-1011/12 Task Selections/ Built-in ISO 14224 Equipment Failure Library
- ❖ FME(C)A MIL-1629 Quantitative Equipment/ Function/Failure Mode Criticality Analysis
- ❖ Management of failure Data; Failure Data Library and user defined Libraries
- ❖ Statistical Based Maintenance Analysis for PM Task and Interval and PM Optimization
- ❖ Extensive PM Task Grouping by Drag-Drop Maintenance and Resources Master Plan
- ❖ Estimation of Unplanned Work with or without PMs
- ❖ Microsoft[®] Project Management interface for PM packaging
- ❖ Maintenance Package links to Maintenance Performance Budget
- ❖ Closely coupled with Risk Based Spare Part Reduction and Optimization enables Demand Side Management and Optimization
- ❖ CMMS/ERP interface

Maintenance and Reliability Analysis

- ❖ Failure Data Analysis
- ❖ Reliability/Availability Matrices
- ❖ Qualitative/Quantitative Failure Mode Criticality (t)/ Item Criticality (t) calculation
- ❖ Maintenance incidence Analysis, Total Costs and Total Cost per Uptime

Planned Maintenance Optimization

The Optimizer finds the Optimum Point of users' target (Minimum Total Maintenance Cost or Maximum Availability) by infinitesimal incremental of inputs to find expected number of maintenance incidence related in maintenance policies and scenarios.



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