



# ASI Andromeda<sup>TM</sup> SYSTEMS INCORPORATED

Your Supportability Teammate

## Reliability, Maintainability & Supportability

Andromeda Systems Incorporated (ASI) provides unparalleled expertise and capabilities in the **Reliability, Maintenance and Supportability** field. Our staff of internationally recognized leaders are shaping the industry and developing revolutionary solutions in the military and commercial sectors. Leverage our experience and proven solutions to improve supportability and reduce costs with state-of-the-art maintenance and logistics analysis tools.

### SOLUTIONS

- Condition-Based Maintenance & Prognostics Systems
- FMEA / FMECA
- Level of Repair Analysis (LORA)
- Life cycle Cost Analysis
- Maintenance Concept Development
- Maintenance Management System Configuration & Integration
- Maintenance Planning
- Modeling & Simulation
- Reliability & Maintainability Analysis
- Reliability Centered Maintenance (RCM)
- Supportability Analysis
- Technical Data Development
- Training Systems Development

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## SOLUTIONS DELIVERED

- **Developed “Event Based Maintenance”**, a revolutionary maintenance concept using optimization techniques to minimize cost and maximize asset availability.
- **Implemented a comprehensive Reliability Program**, for a major Unmanned Aerial Vehicle OEM.
- **Performed a complete RCM analysis** for AH-1Z and UH-1Y aircraft. The analysis effort included Reliability Block Diagrams to predict logistics impact of maintenance changes and integration with the Logistics Support Analysis.
- **Developed a Modeling and Simulation process and tool** to predict logistics resource requirements utilizing inputs from RCM and maintenance task analysis.
- **Performed simultaneous RCM analyses** for several aircraft Type/Model/Series to validate RESET Programs.
- **Developed a Condition Based Maintenance program** for underground mining equipment that included RCM analysis and on-board systems to monitor equipment health.
- **Supported logistics management** of a Technology Development/Competitive Prototyping acquisition program for the development of a new ACAT I Laser/Missile Warning System for six Navy/Marine Corps Assault Platforms.
- **Participated in the development of internationally recognized standards** including JA1011, Evaluation Criteria for Reliability Centered Maintenance (RCM) Processes and GEIA-STD-0007.

### CONDITION-BASED MAINTENANCE & PROGNOSTICS SYSTEMS

- Architecture Development
- Diagnostics and Prognostics Algorithm Development
- Maintenance Management Systems Integration
- Systems Development to Collect & Analyze Equipment Health Data

### FMEA/FMECA

- FMEA Software Development and Implementation
- New and In-Service Equipment
- RCM Integration and Maintenance Planning Processes
- Training and Consulting

### LEVEL OF REPAIR ANALYSIS (LORA)

- Analysis
- Cost model & Algorithm Development
- Software Development

### SUPPORTABILITY ANALYSIS

### TRAINING SYSTEMS DEVELOPMENT

### MAINTENANCE CONCEPT DEVELOPMENT

- Advanced Maintenance Schedule and Performance Optimization
- Event-Based Maintenance Concept
- Integrated Maintenance Concept
- Performance based Logistics Support

### MODELING & SIMULATION

### LIFE CYCLE COST ANALYSIS

### RELIABILITY & MAINTAINABILITY ANALYSIS

### RELIABILITY-CENTERED MAINTENANCE (RCM)

- Consulting, Mentoring & Facilitation
- Integration: CBM+, Logistics Data, Maintenance Management Systems
- Preventive Maintenance Plan Dev.
  - Aircraft
  - Data Centers
  - Ground Vehicles
  - Industrial & Manufacturing Equipment
  - Power Plants
- Software Development & Implementation

### MAINTENANCE MANAGEMENT SYSTEM CONFIGURATION & INTEGRATION

- Analysis and Scheduling Tool Integration with Maintenance Management Systems
- Maintenance Scheduling Systems Development
- System Configuration

### MAINTENANCE PLANNING

- Resource Requirements Prediction
- Support Resources Identification and Analysis
- Complex Systems or Fleets
- Tool and Software Development
- Military and Commercial Assets
- Training and Consulting

### TECHNICAL DATA DEVELOPMENT

- CAD and Modeling Programs
- Design Change Documentation
- Level 3 Engineering Drawings
- Procedure Development for trouble shooting, maintenance and repair