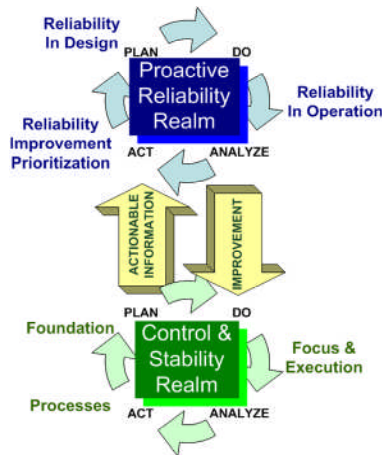


ALIDADE MER, INC.

PROBLEM SOLVING INSIGHT, ADVICE & SUPPORT
FOR MAINTENANCE & OPERATIONS EXCELLENCE

Organizational Reliability Process

- Control & Stability Generates Actionable Information (symptoms)
 - Generates data
 - Data becomes information
- Analyze & Solve Important Issues with Proactive Reliability (diagnosis)
 - Reliability Improvement Prioritization chews on the info
 - Reliability in Design/Operations defines improvements
- Standardize & Implement Improvements (prescription)
 - New methods are transfused back into normal routine
 - Control & Stability Realm generates new data



Why Alidade?

- Coast Guard Maintenance Program Improvements**
 - 2500hp propulsion clutch maintenance reduced from 5760 hrs/yr to 240 hrs/yr with improved reliability
 - HVAC vent inspection program reduced annual vent cleaning costs by >\$500,000/yr
 - PM/PdM program increased planned maintenance by 52%, decreased unplanned maintenance by 64% in 1 yr
 - Workforce scheduling from 24% to 93%; resulted in control of labor resources, completed more planned work
- Gulfstream Aerospace FMECA project**
 - Established master plan for improvements through RCM
 - Improved system availability from 67% to 94%
 - Customer satisfaction; "Noticeable improvement in quality."
- University of Michigan**
 - Originally, 18 separate shops and zones each doing maintenance differently; inefficient, no good historic data.
 - Restructured into 4 regions and one central shop.
 - Implemented performance measures and improved supervisor and manager accountability for performance.
 - Resulted in 10% total cost per square foot cost reduction.
- Rio Tinto Energy America; Surface Mining Operations**
 - Performed FMECA and PM Optimization process on Komatsu 830E 240 ton haul trucks.
 - Reduced non-value added PM task hours by 45.2%
 - Increased operational availability by 1.4%

Leveraging Experience

Tom Moriarty, PE, CMRP was awarded the U.S. Coast Guard Federal Engineer of the Year by National Society of Professional Engineers in 2003.

During the first third of his career, Tom was a Machinery Technician; assigned to various search and rescue stations and aboard the CGC SPENCER. Having advanced to first class petty officer by 1988, Tom was selected for Officer Candidate School and spent the middle third of his career as a Cutterman assigned as assistant engineer and engineer officer aboard cutters. The final third of Tom's career was spend in operational support roles at the Maintenance & Logistics Command, Atlantic and Naval Engineering Support Unit, Portsmouth.

The Engineer of the Year Award was earned based on Tom's leadership in researching, designing and implementing processes and procedures that lead to a comprehensive Predictive Maintenance (PdM), or condition-based maintenance (CBM) program. PdM and CBM provides the advance detection of defects inside equipment, early enough, to plan and schedule corrective actions in a way that can minimize effects on operational schedules.

What is often overlooked in PdM an CBM programs is the concept that there must be a well established and maintained work management system. When the work management system functions well, equipment history becomes a valuable tool for minimizing costs and maximizing operational availability.

Work management systems require process discipline. Process discipline leads to efficiencies and a 20% to 30% reduction in the amount of labor required to get a given amount of work done; proven in Coast Guard, and numerous commercial applications.

This "found" labor can be reinvested to provide the resources needed to train, then deploy PdM/CBM services.

Solving problems through insight, advice and support



Tom Moriarty, PE, CMRP
President
Alidade MER, Inc.

Tom Moriarty, PE, CMRP is the President of Alidade MER, Inc.; a veteran owned small business (VOSB). Tom is a retired Coast Guard naval engineer having retired at the rank of Lieutenant Commander. He was an enlisted machinery technician for nine years with hands-on experience in HVAC, hydraulics, diesel/gasoline engines, water/waste water, fuel systems and various other mechanical systems. He graduated from Officer Candidate School in 1988. Over his career he was a laborer/technician, supervisor, project & program manager; he worked in engineering, finance, personnel and operations. In 2003 Tom was selected as the Coast Guard's Engineer of the Year—the award was based on his leadership in developing & deploying a comprehensive condition based maintenance program. Tom earned a Master of Business Administration (MBA) degree from Florida Institute of Technology, and a Bachelor of Science in Mechanical Engineering (BSME) from Western New England College. Other credentials include being a licensed Professional Engineer (PE) in Florida & Virginia, Certified Maintenance & Reliability Professional (CMRP), and Past Chair of ASME Canaveral Section. Tom has worked in refining, power generation, pharmaceutical, chemical, discrete manufacturing and aerospace plants, government and other industries.

541330 Engineering Services

CCR and ORCA Registered

Licensed Professional Engineer

GSA Professional Engineering Services

EIN: 20-1495579

Office (321) 773-3356

Contract Number:

DUNS: 16-457-3425

Cell (321) 961-4306

Veteran Owned Small Business

CAGE CODE: 30YH6

Email info@alidade-mer.com

Reliability Partnering

Our approach is different, just as every client organization is different. We are focused on solving problems through insight, advice and support for operations and maintenance excellence.

We seek first to understand the issues and concerns our clients have, then work collaboratively to design an approach that makes sense. Alidade provides education that helps people understand what needs to be done, and why.

We have a small full time staff that provides the core of our team. The Alidade Professionals Network of over 35 experts in all aspects of maintenance and reliability are formed into teams that deliver. The typical Alidade professional has advanced education degrees, relevant certifications and over 25 years of experience.



What our clients have said...

“Alidade’s assessment report made it easy for me to know exactly what we needed to do to improve the performance of the [production equipment]. I was able to hit the ground running!”

-Aerospace Manufacturing, Reliability Engineer

“Tom was able to put our staff at ease. He drew out ideas from people that normally would not share their thoughts... He assimilated with our team and immediately gained their confidence.”

-Pharmaceutical Plant, Maintenance Manager