SHIP MANAGEMENT TOOLS

THE MARITIME STANDARD – TANKERS CONFERENCE 2019

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AGENDA

- Introduction
- Operator Focus
- ADNOC L&S Approach
- Maintenance Optimization
- Fuel Efficiency
- Safety Culture
- Human Element
- Conclusion
INTRODUCTION

- Competitive Pressure Growing
- Consolidation in shipping leading to larger fleets
- Numerous Emerging Regulation
- Geo Political Risks
- Rising Fuel Prices
- High Safety Standards
OPERATOR FOCUS

- Safe Operations.
- Fuel is major factor in spot market.
- Manning Cost and crew standard.
- Maintenance Optimization and vessel reliability.
- Compliance with more stringent environmental regulations.
ADNOC L&S APPROACH

LNG  10  DRY BULK  7  CONTAINER  3

- Enhance Safety Culture
- Integrated IT solutions for improved decision-making
- Upgrade Communication Systems
- Improve efficiency of operations
- Maintenance Optimization
- Focus on Crew Competency
MAINTENANCE OPTIMIZATION

Smart Ship:

Cloud based predictive maintenance solution that provides real time insights, detect failures early and prescribe maintenance actions using continuous monitoring technologies, machine learning techniques, and big data analytics

- Increase asset reliability and availability
- Optimize maintenance costs and improve maintenance planning
- Mitigate operational risks
- Reduce maintenance cost
- Provide continuous visibility of asset condition
FUEL EFFICIENCY

Rigid Solar Panel Sails

Advanced integrated system of rigid sails, marine-grade, energy storage modules and marine computers that will enable ships to tap into renewable energy by harnessing the power provided by the wind and sun.

Hybrid Propulsion

With high frequency of port calls in coastal vessel and in particular Feeders, and fuel reduction gains of up to 20%, we are seriously considering moving towards hybrid power solutions.
SAFETY CULTURE

Planning and Preparation
- Kick off meeting
- Develop question set
- Set up survey
- Documentation Review

Implementation & Data Gathering
- Pilot survey
- Survey Go Live
- Monitor data

Safety Culture Assessment
- Office Interviews
- Vessel interviews and observations

Analysis & Reporting
- Analyse data
- Reporting
- Presentation of results

Cultural Implementation

Management Commitment
Leadership
Communication
Learning
Processes and Procedures
Engagement
Competence
Risk Management

- Strongly Positive
- Positive
- Somewhat Positive
- Somewhat Negative
- Negative
- Strongly Negative
Evidence Based Performance Management

Advanced approach to crew management deploying Artificial Intelligence solutions to enhance crew competencies, monitor performance and customized training program to individual needs.

- Evidence Based realistic performance evaluation
- Positive changes staff behavior
- Allows Competency profiling
- Cost effective and focused training
CONCLUSION

- Growing Market Pressure.
- Operators are continuously challenged to maintain safe and Efficiency Operations.
- Identify your main areas of Focus is the first step.
- Continuous Improvement to ensure sustainable business.
- Digitization is a powerful tool to enhance Ship Management.
THANK YOU