MOORING INSPECTION
MAINTENANCE AND REPAIR

WHAT CAUSES MOORING FAILURES?

- Wear
  Due to rubbing on adjacent line components at connecting links, fairleads, bending plates...

- Fatigue damage
  Due to cyclic tension and propagation from repetitive axial and bending stress

- Corrosion
  From chemical reactions between the material and the surrounding environment

- Abrasion
  From contact with seabed sediments

- Excessive tension
  During severe environmental conditions and exposure to dynamic loads

- Flawed materials
  Due to impurities, improper heat treatment, poor casting

WHICH STEPS TO MOORING INTEGRITY?

1. Regular inspection and evaluation
2. Identification and execution of routine maintenance and equipment replacement operations to reduce the potential for failure
   - Winch or chain jack maintenance,
   - Fairlead lubrication,
   - Adjustment of mooring line payout
3. Qualitative and quantitative estimates of a mooring system's probability of failure

DO YOU NEED A MOORING REPAIR PLAN?

- A Mooring Repair Plan (MRP) can help you
  - Identify capable spot market installation vessels, mooring equipment replacement suppliers, their lead times, and viable staging and mobilization docks
  - Define installation aid fabricators and suppliers
- Plan and develop preliminary offshore operations procedures
- Develop sparing philosophy that identifies and plans for the provision of spare mooring components
- Efficiently respond to an emergency scenario

CONTACT THE EXPERTS FOR YOUR NEXT INSPECTION, MAINTENANCE AND REPAIR NEEDS AT
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