

ARE YOU PLANNING FOR SUBSEA CONTROL EQUIPMENT FAILURE?



Independent analysis of >10yrs of global failure data shows that the majority of failure related lost production is caused by control system anomalies.

ACCORDING TO THE DECOMWORLD SSIC 2014 SURVEY, THE MAJORITY OF RESPONDENTS AGREE THAT:



Condition performance monitoring is crucial for reducing failures.



Monitoring and inspection are preferred over intervention.



Subsea control modules have the highest failure rates.

COMMON FAILURES

DCV wear-out leading to POD change.



Umbilical insulation degradation leading to water ingress and communication shorts.

DCV wear-out leading to hydraulic fluid leakage

Communication efficiency degradation due to aging



YOU CAN'T PREVENT EQUIPMENT WEAR AND AGING.

YOU CAN PREDICT AND AVERT FAILURE



HOW TO PREDICT FAILURE



COLLECT DATA

- Pump runtime
- Valve operations
- Hydraulic fluid flow at all measurable locations
- Comms

PROCESS DATA

- Trend pump usage rates
- Trend DCV usage rates
- Analyze expected hydraulic fluid consumption
- Trend comms efficiency

UNDERSTAND HEALTH STATUS

- Est DCV wear-out date
- Est pump service date
- Indication of potential leakage
- Locate potential hydraulic leakage.
- Est comms failure date.

Predict failure. Plan preventative measures. Minimize production disruption.

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