KP4 Interim Report
EC&I Aspects

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EC&I KP4 inspections

- 18 to date (13 offshore)
- 8 fixed, 2 fpso, 1 fpu, 1 s/s driller, 1 j/u driller
Questions (Onshore)

• How are ageing/obsolescence issues identified?
• What has been identified?
• What plans/projects?
• How does maintenance ensure safety is maintained as equipment ages?
• How do you know risks are controlled?
• What are the KPIs?
Questions (Offshore)

• What problems have there been?
• What operating issues are there?
• What maintenance issues are there?
• What spares/vendor support issues are there?
• What plans/projects?
• Is physical condition acceptable
• Are drawings/documents up-to-date?
Findings - General

- Excellent engagement
- Day-to-day maintenance generally reasonable but work loads high
- EC&I not managed as a single entity
- No overall design life
- ‘Fix on fail’
- Lots of data, but little trending / reliability analysis
- Many significant reviews, projects
- Resource shortages
Findings

• Corrosion of equipment, cable trays etc
• Some cable degradation
• Unclear tagging / identification
• Incomplete / out-of-date documentation
• Obsolescence of embedded control systems (motors etc)
Findings

• Some older equipment is less likely to become obsolete
• Redundant equipment not removed or adequately identified
• Defined life components not managed well
• Trace heating vulnerable to damage
Good Practice

- Obsolescence reviews
- Refurb / upgrade projects
- SCE status summary
Areas requiring focus

- Increase measurement and analysis of failure trends
- Improve understanding of equipment obsolescence issues to guide when to replace / spares requirements.