



Standards Workshop Operations & Maintenance

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Standards

- Provides guidance and regulation
- Risk Reduction
- Commercial opportunities
- Knowledge sharing
- Requirements management
- Commonality – skills & language
- H&S consistency



Health & Safety

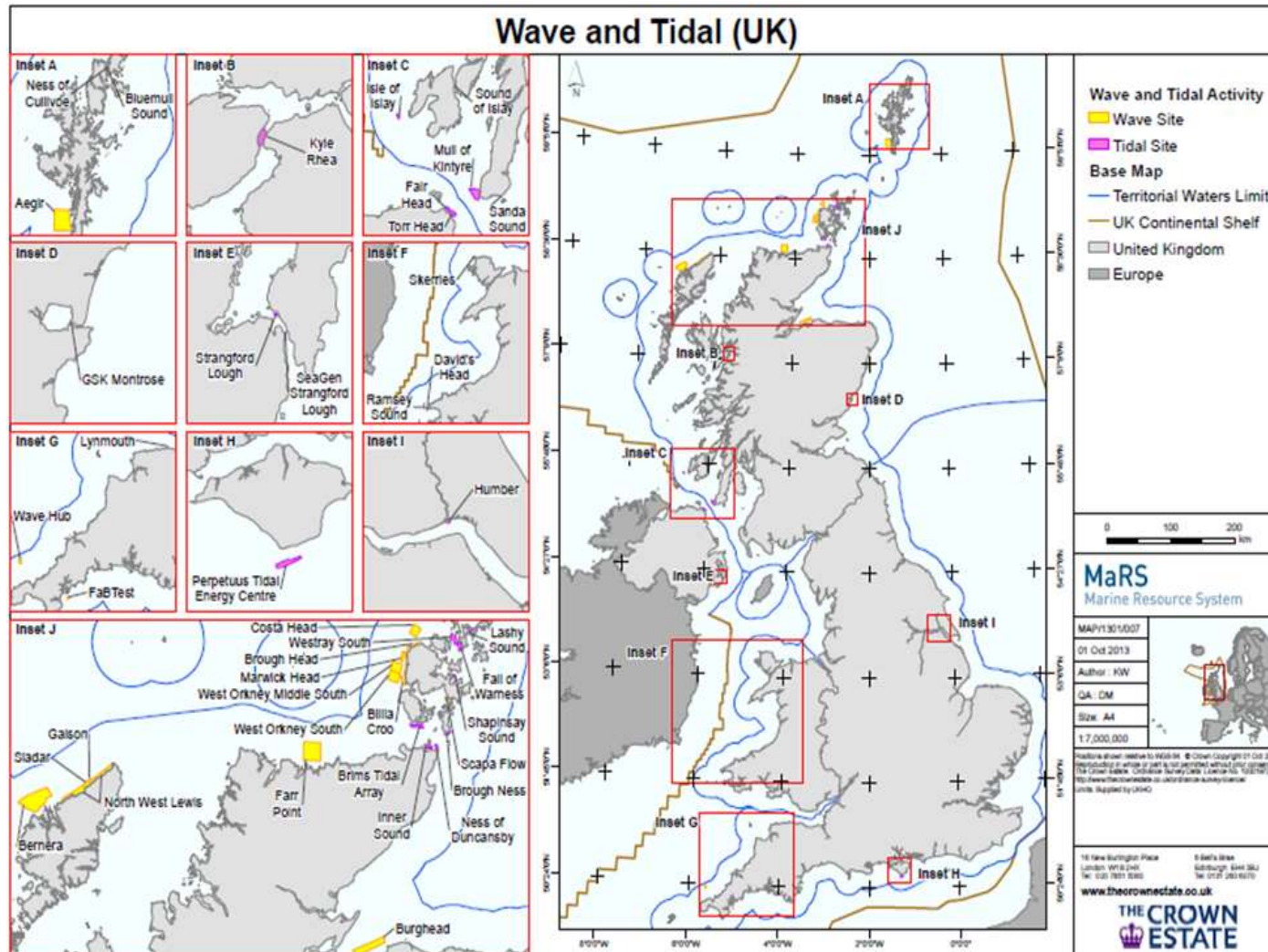
- Covers all areas under discussion today
- Why no Standard?

Offshore Wind and Marine Energy Health and Safety Guidelines

2014: Issue 2

EMEC Activity

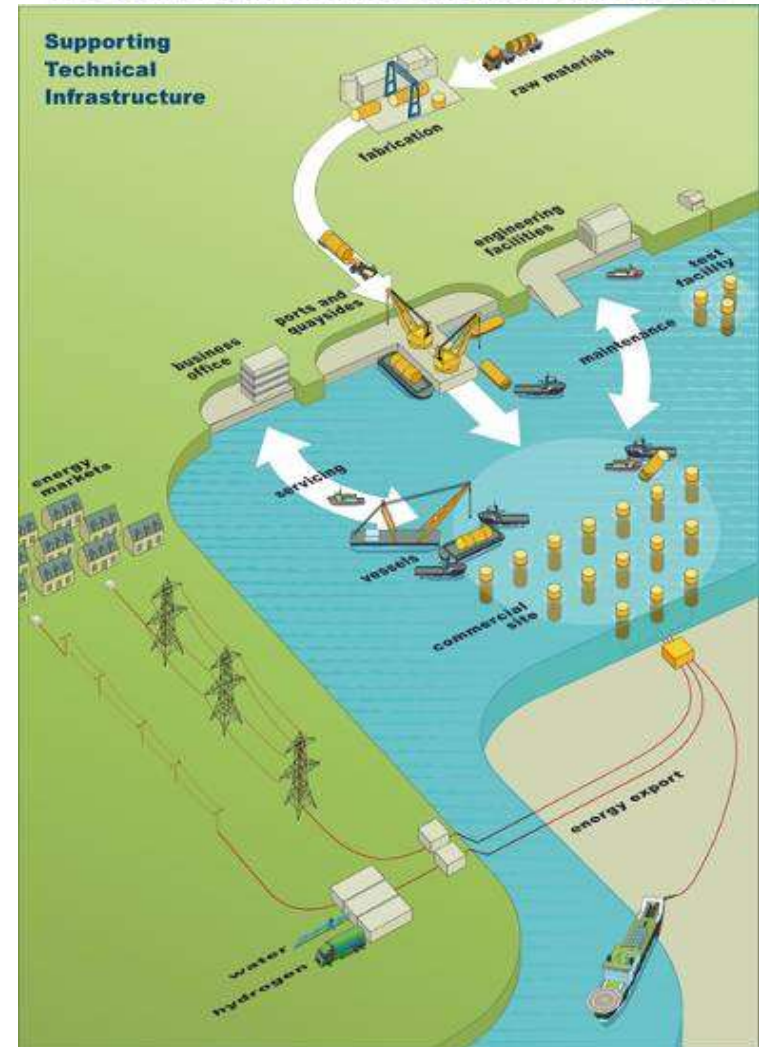




Delivery

What will be needed to deliver 1 GW of marine renewables capacity:

- Energy converters 1100-1200
- Connecting cables 1000/6000km
- Sub stations 10
- New 132kv connections 10
- Converter stations 1-2
- GW grid connection 1
- Co-gen/storage scheme 1-2
- Large purpose built vessels 10
- Emergency tugs 1-2
- Work boats 20-30
- Expanded/new ports 3-4
- Assembly/maintenance yards 2-3
- Local workforce 500-1500
- Expanded and new offices 50
- New houses 300-1000
- Operations control centre 1



Onshore Facilities

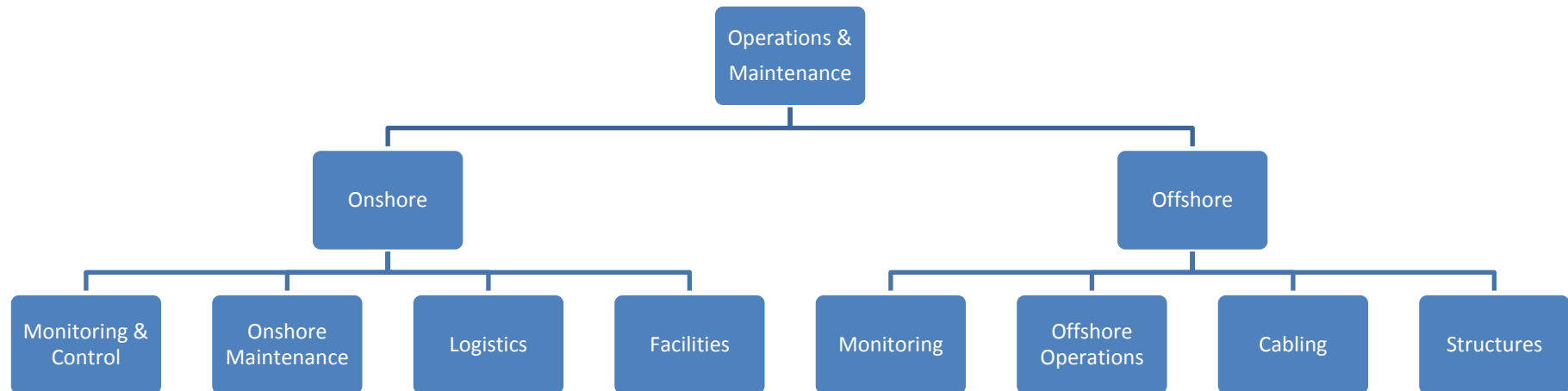
- Ports & Facilities
- Operations Base
- Logistics
- Maintenance facilities
- Engineering facilities
- Welfare facilities?



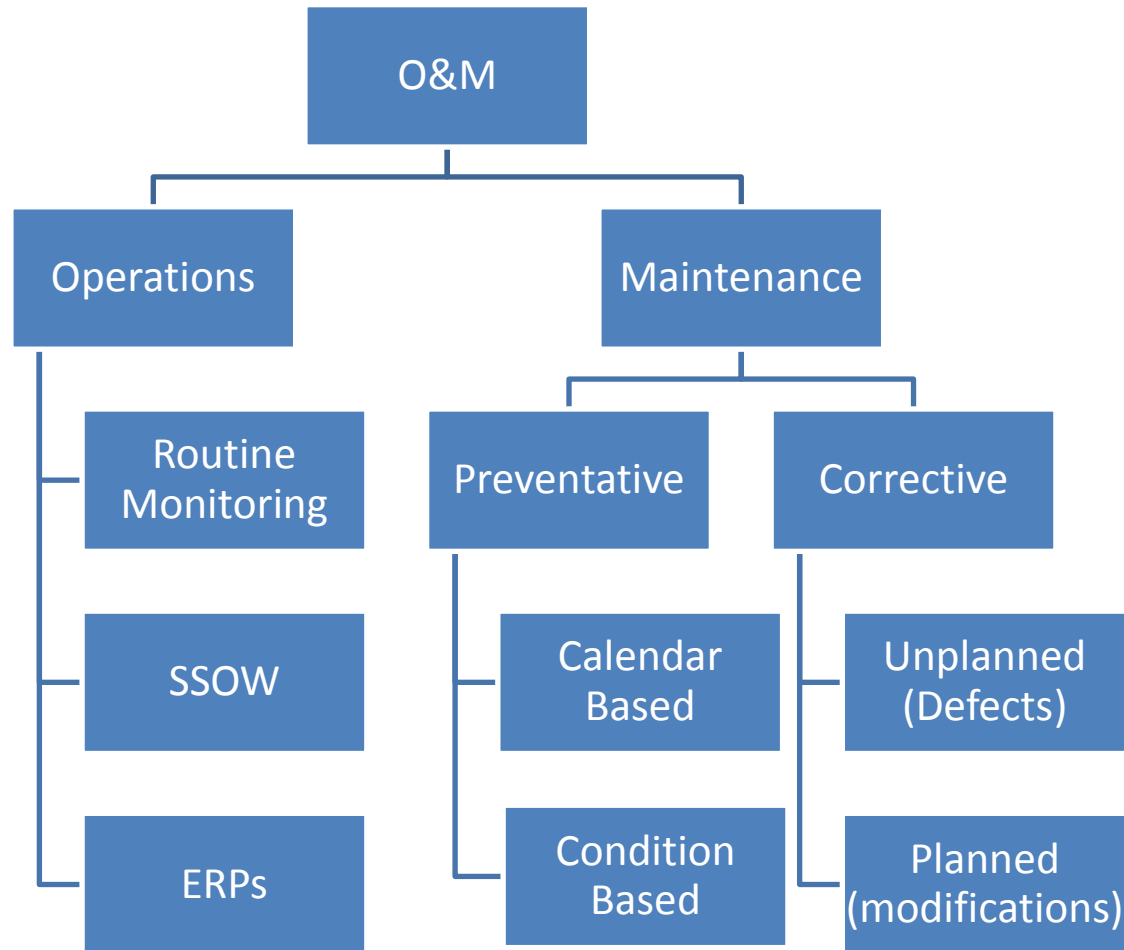
Vessel Requirements



O&M Areas

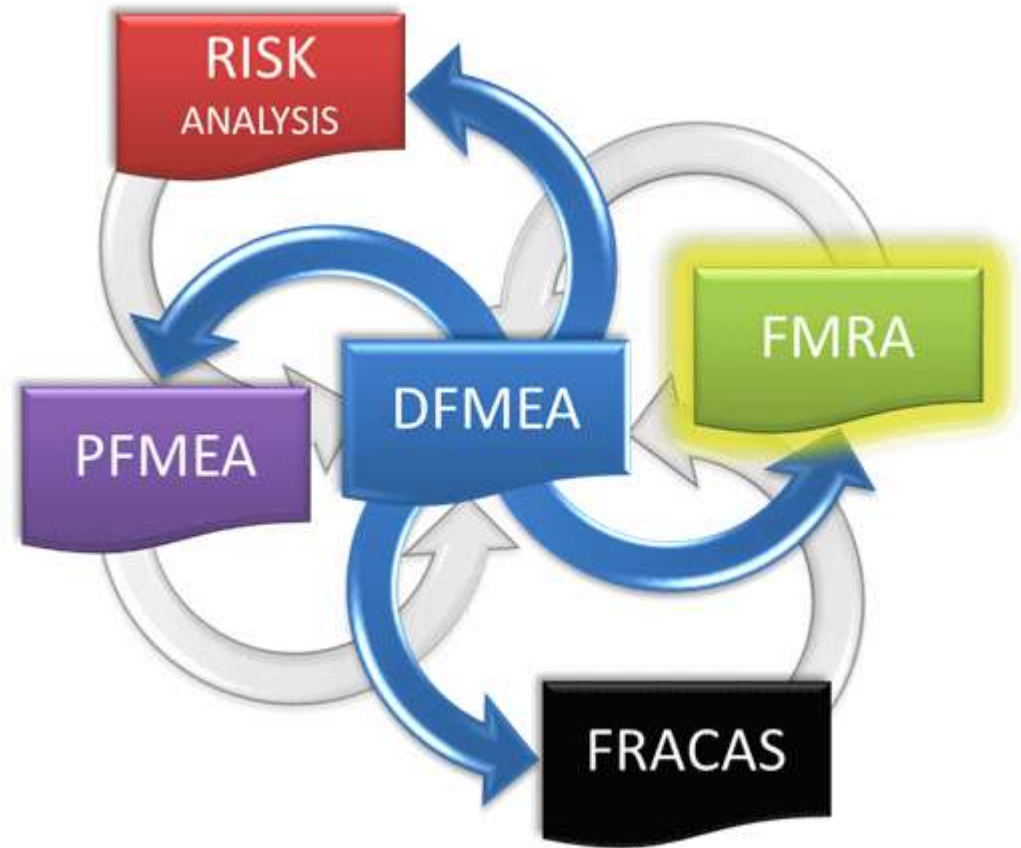


Maintenance – Good Practice



Unscheduled Maintenance

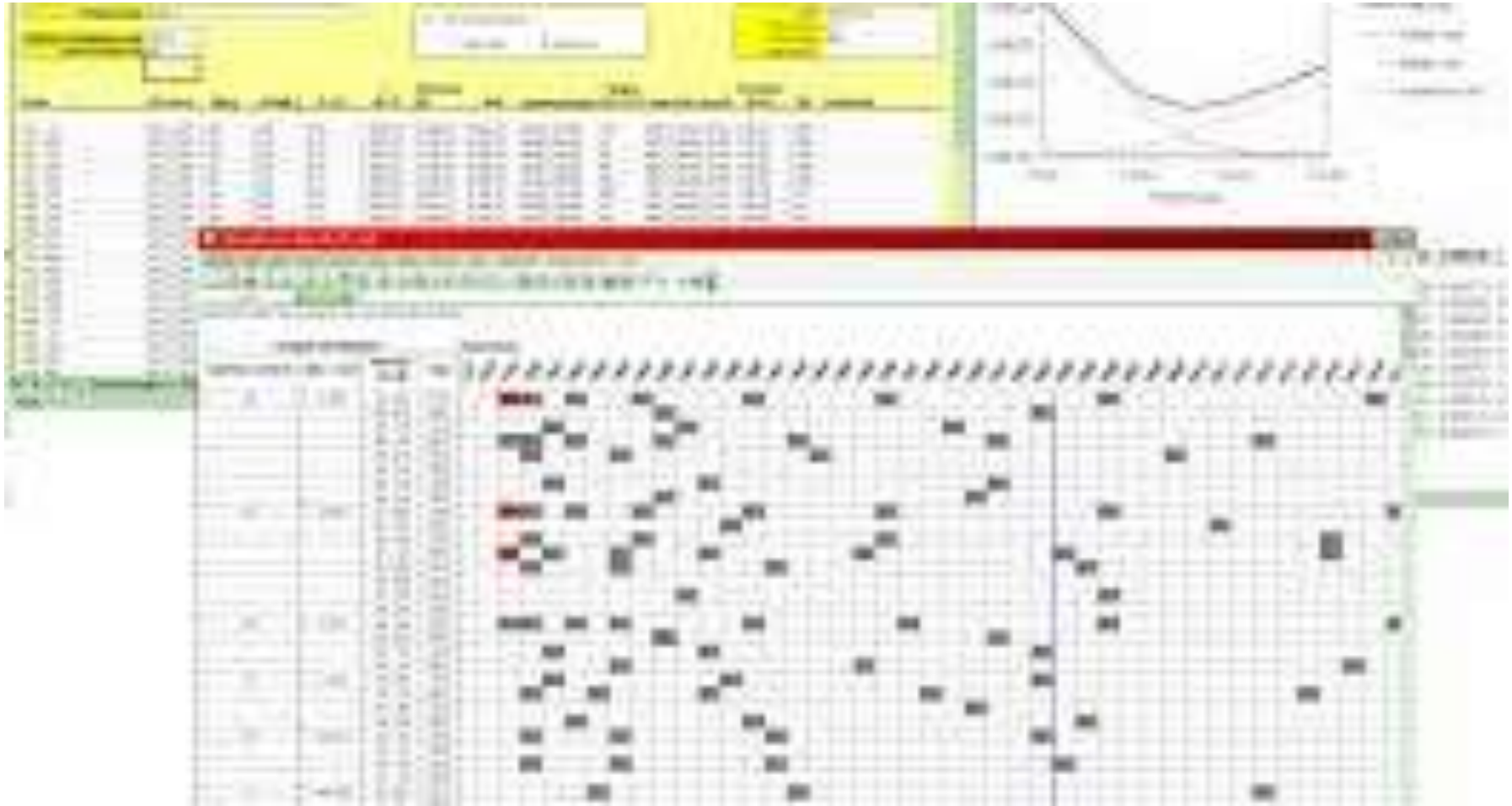
- Reliability Centred Maintenance (RCM)



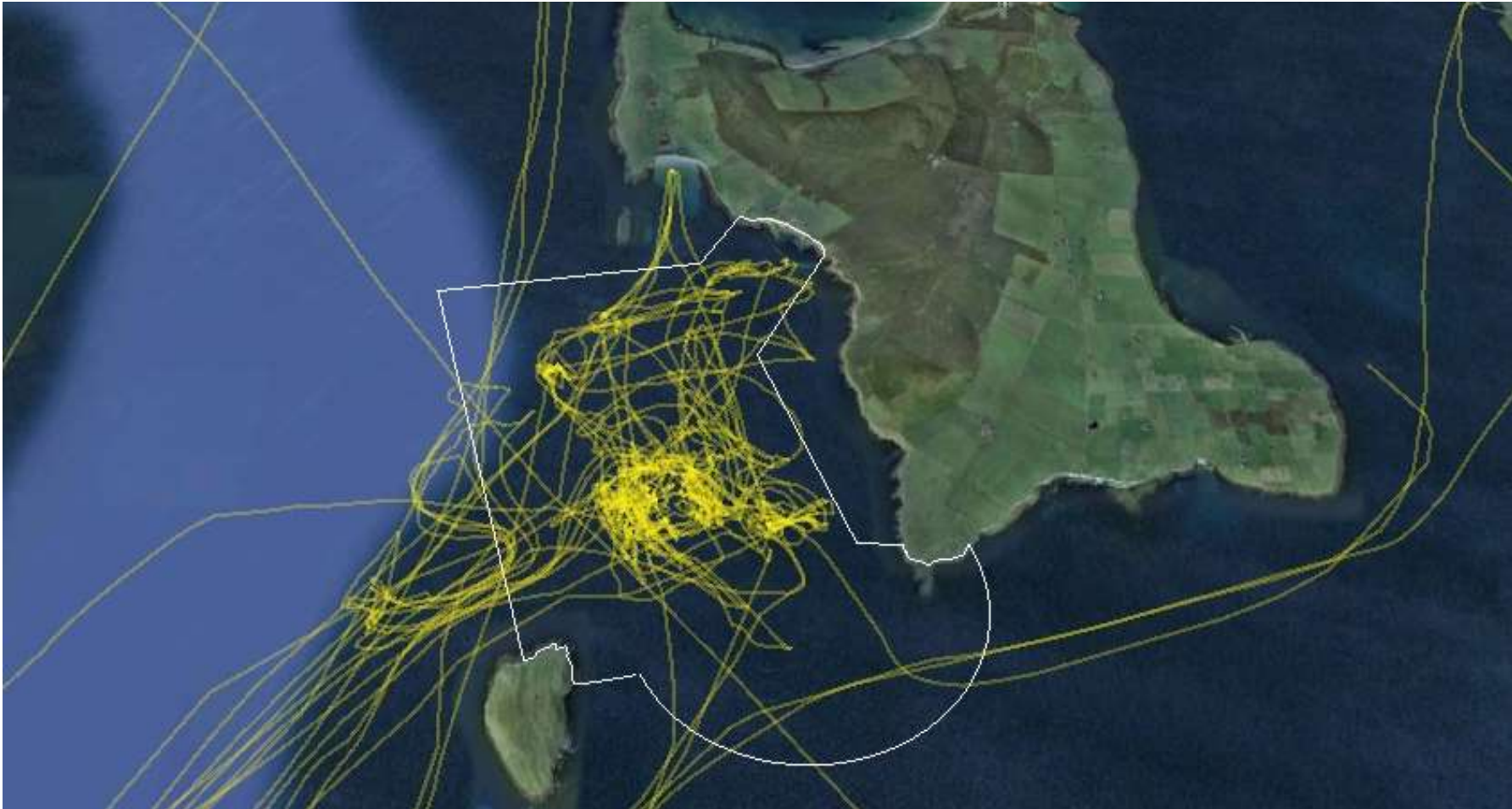
Records & Administration



Maintenance records & planning



Just another day.....



Offshore Working

- Command & Control
- Communications
- Emergency Response
- Safe Systems of Work



MARINE GUIDANCE NOTE

MGN 371 (M+F)

**Offshore Renewable Energy Installations (OREIs) -
Guidance on UK Navigational Practice, Safety and
Emergency Response Issues.**

Notice to Other UK Government Departments, Offshore Renewable Energy Developers,
Offshore Transmission Owners, Port Authorities, Ship owners, Masters, Ships'
Officers, Fishermen and Recreational Sailors.

Risk Management



Competencies



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Thank you

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