



Operational risk & performance assurance

Governance confidence

Environmental management & compliance assurance

Independent verification that dropped object controls are effective in practice

Environmental incidents rarely occur because procedures are missing. They occur when environmental controls degrade, containment systems fail or operational discipline is not consistently applied in practice.

Our approach focuses on verifying that environmental management systems, operational controls and physical containment measures actively prevent loss of containment and uncontrolled discharge, supporting compliant, safe and reliable operations.

ModuSpec provides independent environmental management & compliance assurance as part of its governance confidence pillar within the operational risk & performance assurance (ORPA) framework.

Governance confidence within ORPA

The governance confidence pillar focuses on confirming that:

- Environmental risks are identified, assessed and controlled
- Management systems are implemented and effective in practice
- Regulatory compliance is maintained across operations
- Assurance and monitoring processes identify gaps and drive improvement

Environmental Assurance provides targeted verification of system effectiveness, regulatory compliance and environmental risk control.

Industry alignment

Environmental management & compliance assurance can be delivered in accordance with recognised standards, regulatory frameworks and operator-specific requirements, including:

- ISO 14001 (Environmental Management Systems)
- Offshore Petroleum Regulator for Environment and Decommissioning (OPRED) requirements
- Oil Pollution Prevention and Control (OPPC) Regulations
- Offshore Chemicals Regulations (OCR)
- MARPOL requirements (as applicable)
- Environmental permits, consents and licence conditions
- Applicable regional and local environmental regulatory requirements

Assessments are aligned to both regulatory expectations and operational risk exposure, ensuring that environmental controls and containment barriers are effective in preventing discharge in practice, not just compliant on paper.

Risk-based environmental assurance

Environmental assurance scopes are defined based on the specific environmental risk profile of the asset or operation, including:

- Loss-of-containment risk (e.g. hydrocarbons, chemicals, OBM)
- Operational activities (e.g. drilling, bunkering, waste handling)
- Environmental sensitivity of the operating location
- Asset condition, configuration and drainage systems
- Regulatory exposure and permit requirements

This ensures assurance effort is focused on the barriers that prevent environmental incidents.

Environmental management & compliance assurance scope areas

• Environmental Management System (EMS) implementation

Verification that environmental management systems are implemented, understood and effective in practice.

• Regulatory compliance & permits

Verification that operations comply with environmental permits, consents and regulatory requirements.

• Environmental risk & loss-of-containment scenarios

Verification that environmental risks, including spill and discharge scenarios, are identified, assessed and controlled.

• Spill preparedness & emergency response (OPEP)

Verification that spill response arrangements, plans and exercises are effective and aligned with regulatory expectations.

• Environmental containment & drainage systems

Verification that physical containment systems (bundings, drainage, valves, discharge controls) prevent uncontrolled releases.

- **Chemical management & COSHH**

Verification that hazardous substances are stored, handled and controlled in accordance with environmental and safety requirements.

- **Waste management & disposal**

Verification that waste handling, segregation and disposal processes minimise environmental impact and meet regulatory requirements.

- **Operational control of high-risk activities**

Verification that activities such as bunkering, transfers and maintenance are controlled to prevent environmental incidents.

- **Monitoring, reporting & environmental performance**

Verification that environmental KPIs, discharge monitoring and reporting systems are accurate and effective.

- **Assurance, audit & continuous improvement**

Verification that environmental audits, inspections and reviews drive improvement and close identified gaps.

- Drainage system and discharge control verification
- Spill preparedness and emergency response assurance
- Targeted environmental risk and containment reviews

Leadership value

Environmental management & compliance assurance provides operational leadership with:

- Independent confirmation that environmental risks are effectively controlled
- Reduced exposure to environmental incidents and regulatory breaches
- Improved integrity of containment systems and discharge controls
- Greater confidence in compliance with permits and regulatory requirements
- Defensible assurance under regulatory, partner and stakeholder scrutiny

Tailored assurance scopes

Environmental assurance can be delivered as bespoke scopes aligned to specific operational risks or project requirements, including:

- Pre-mobilisation environmental readiness reviews
- OBM and cuttings containment assurance
- Environmental compliance audits against OPRED requirements

Independent. Risk-based. Operationally grounded.

MR MODUSPEC

Contact us to independently evaluate the effectiveness of your organisational governance, legal compliance management and operational assurance frameworks.

Contact

solutions@moduspec.com

moduspec.com



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/ ModuSpec
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