



Bureau of Safety and Environmental Enforcement

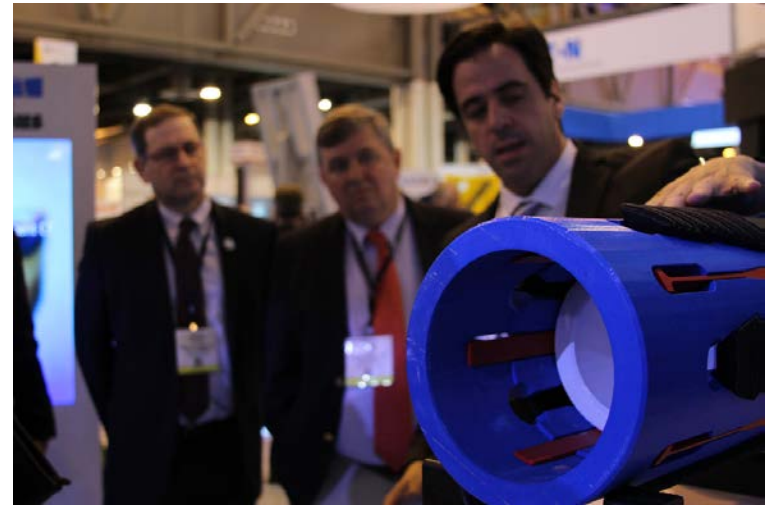
- Created in response to *Deepwater Horizon* tragedy
- BSEE has ~ 900 total staff
- Currently 125 inspectors, up from 58 five years ago
- Three BSEE regions: Gulf of Mexico, Pacific, Alaska
- Regulatory oversight of > 2,300 offshore facilities
- Need to constantly rethink effective risk reduction
- Imagine the inspector of the future

Risk Tolerance



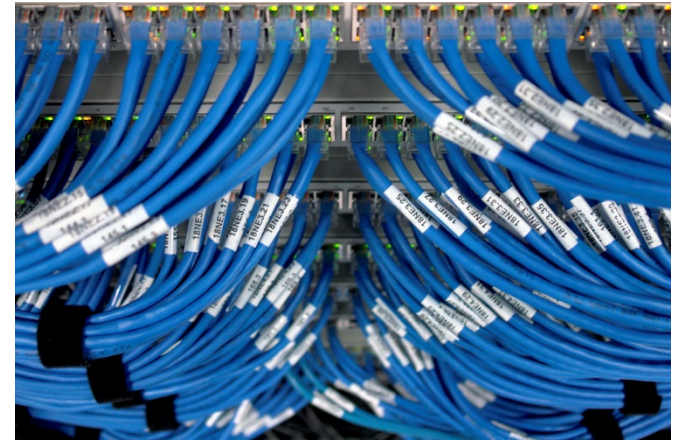
- Each operator has a different risk tolerance
- Can detailed regulations adequately mitigate risk?
- Vast number of scenarios and unique circumstances
- ALARP → Risk = As Low As Reasonably Practicable
- In Well Control Rule, but applies to all OCS operations

New Technology



- New technology means undefined risks
- BSEE working with NASA on risk assessment of new technology
- Space and deepwater environments have similarities
- Increase use of probabilistic risk assessment to quantitatively model risk

Data Needed



- BSEE and Industry need better data
- We particularly need data on leading indicators
- Operators are in the best position to gather data
- SafeOCS is a confidential reporting system

Risk-based Inspections



- Still in the pilot phase
- Structured risk analysis tool developed with Argonne National Laboratory
- Identified that 20% of facilities account for 80% of incidents
- Methodology development is ongoing during pilot phase
- The goal is to help companies become safer, not penalize them

Safety Culture



- Risk analysis requires good data from the industry
- Need data from this competitive and complex industry
- Then we can improve risk analysis techniques
- Goal is an industry-owned safety culture

Opportunities



- Opportunities to grow risk analysis capabilities
- Safety culture, NAS Study – Need for champions
- Information sharing – SafeOCS
- Collaboration – the Bolt Problem

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"To promote safety, protect the
environment and conserve resources
offshore through vigorous regulatory
oversight and enforcement."