

E N G I N E E R E D P E R F O R M A N C E W O R L D W I D E



ABERDEEN DRILLING CONSULTANTS

# RIG REACTIVATION AN OPERATIONAL ASSURANCE PERSPECTIVE

SANDY WEST – **ENGINEERING MANAGER**





# **SPEAKERS INTRODUCTION**

## **RIG REACTIVATION?**

**WHAT DOES IT MEAN TO YOU?**





**RIG REACTIVATION?**

**WHAT DOES IT MEAN TO ADC?**





# CONSIDERATIONS IN RIG REACTIVATION

## Operational Capability

- **Hoisting system and derrick**
- **Bulks, cement and mud pumping systems**
- **Maximum working pressure of BOP**
- **Deck space**
- **POB**





# CONSIDERATIONS IN RIG REACTIVATION

## Corporate Responsibility

- **Safety of People**
- **Protect Companies Reputation by**
  - i. **Operating in compliance with local regulatory and legislative requirements**
  - ii. **Operating in compliance with Company Policy i.e. Well Control**





# CONSIDERATIONS IN RIG REACTIVATION

## Regulatory and Legislative Compliance

- **Drilling Unit Acceptance**
- **Safety and Environmental Management System**
- **Training and Competency**
- **Maintenance Management**





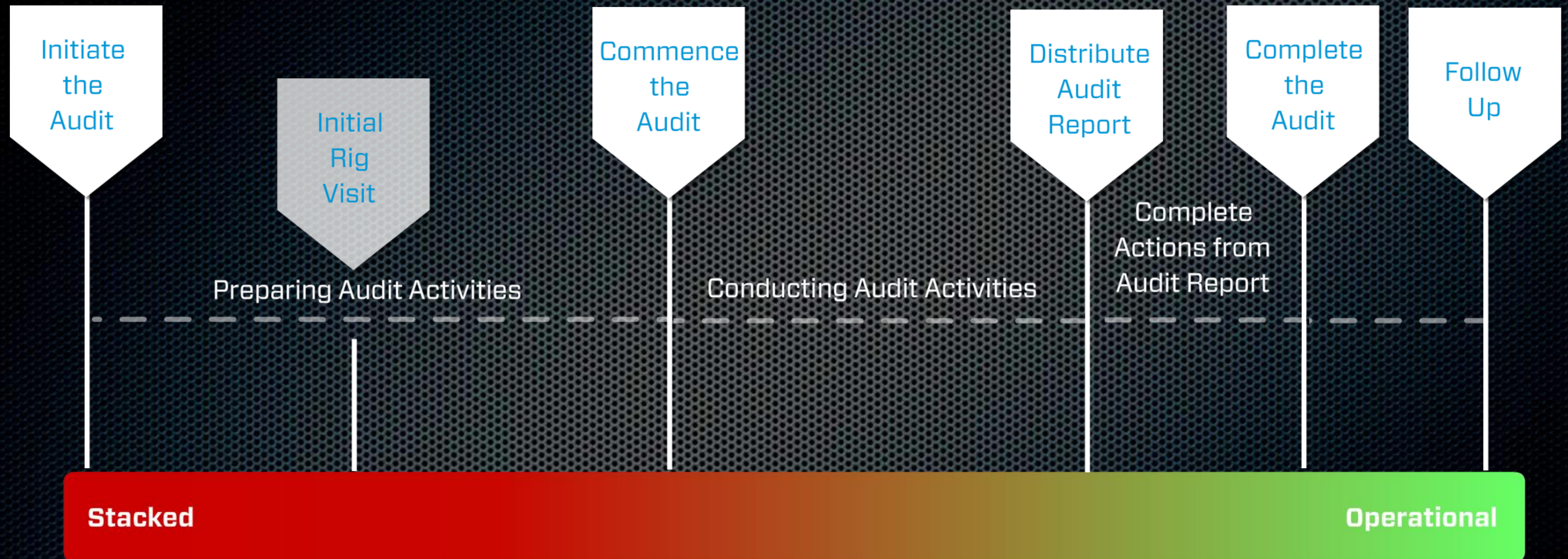
E N G I N E E R E D P E R F O R M A N C E W O R L D W I D E

# THE ADC APPROACH



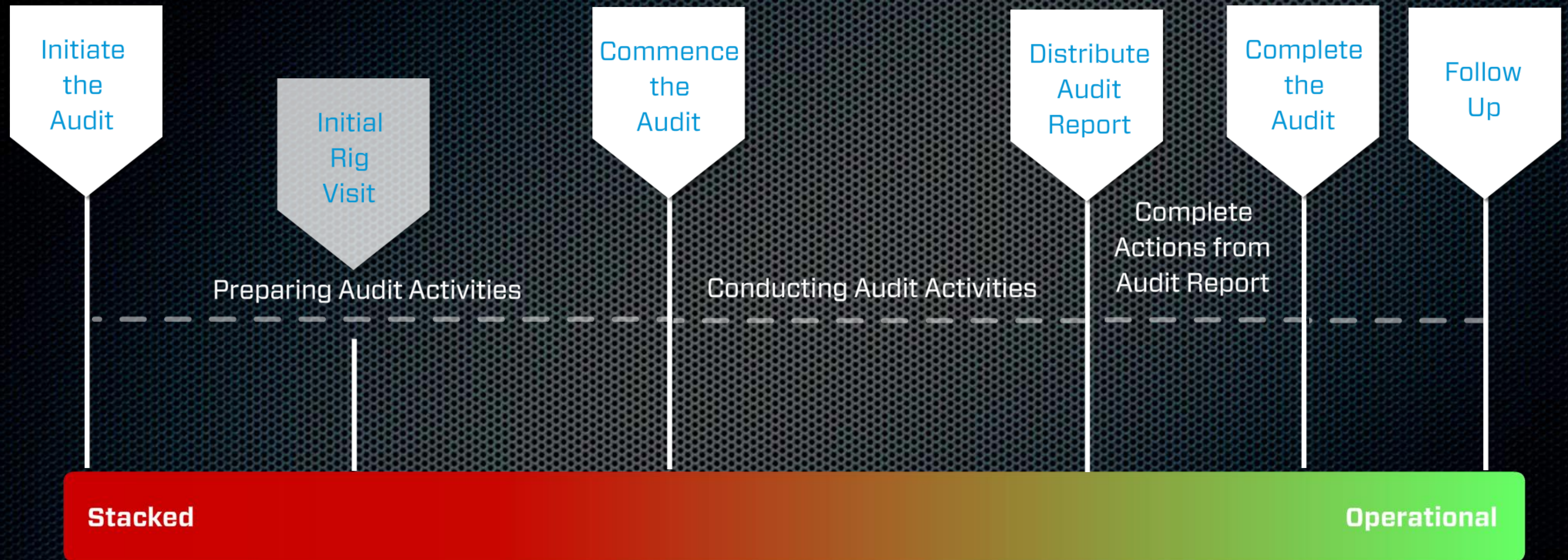


# ISO19011 AUDIT ACTIVITIES





# ISO 19011 AUDIT ACTIVITIES



Preparation





# Audit Plan



## Reactivation of Platform Drilling Package

### Operational Assurance Plan



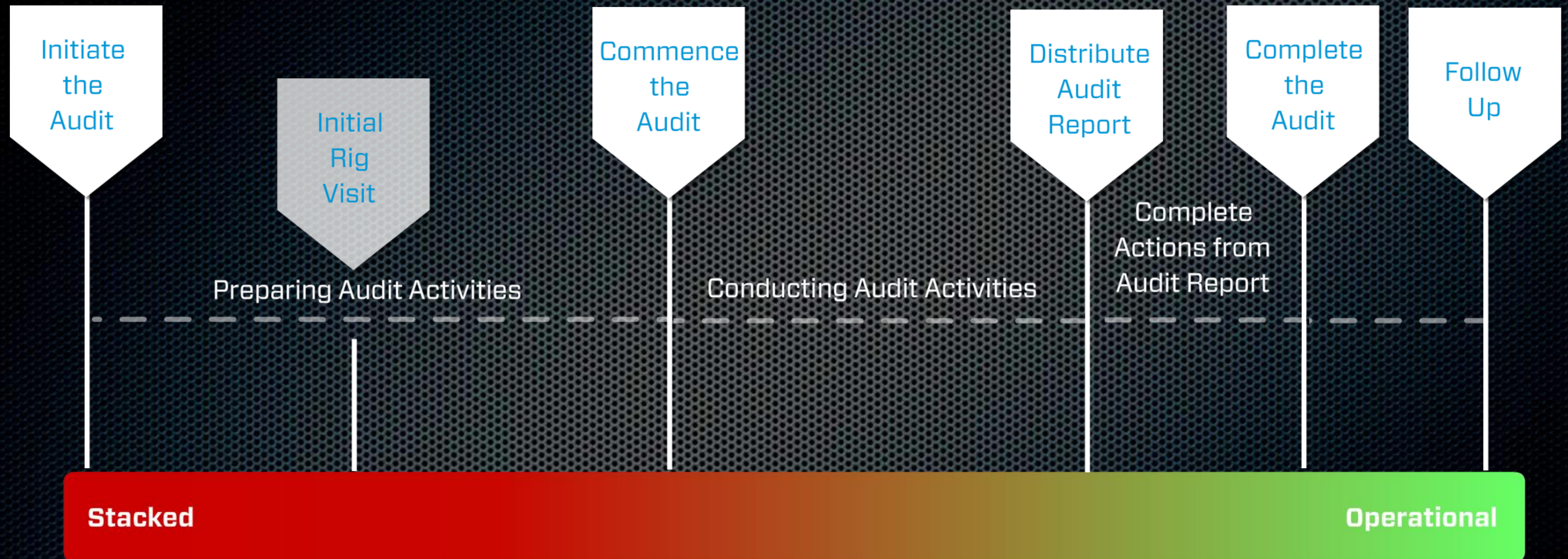
Prepared For  
Client Representative

Version	Issue Date	Prepared by	Reviewed by	Approved by	Comments
FINAL	March 2017	D Ballance	G McQuade	S Wood	
		D Price			





# ISO19011 AUDIT ACTIVITIES





# Conducting audit activities



RIG INSPECTION



CYBER RIG SOFTWARE  
AND CONTROL SYSTEMS  
INSPECTIONS



BOP & WELL CONTROL  
INSPECTIONS



HSE & DROPPED OBJECTS  
INSPECTIONS

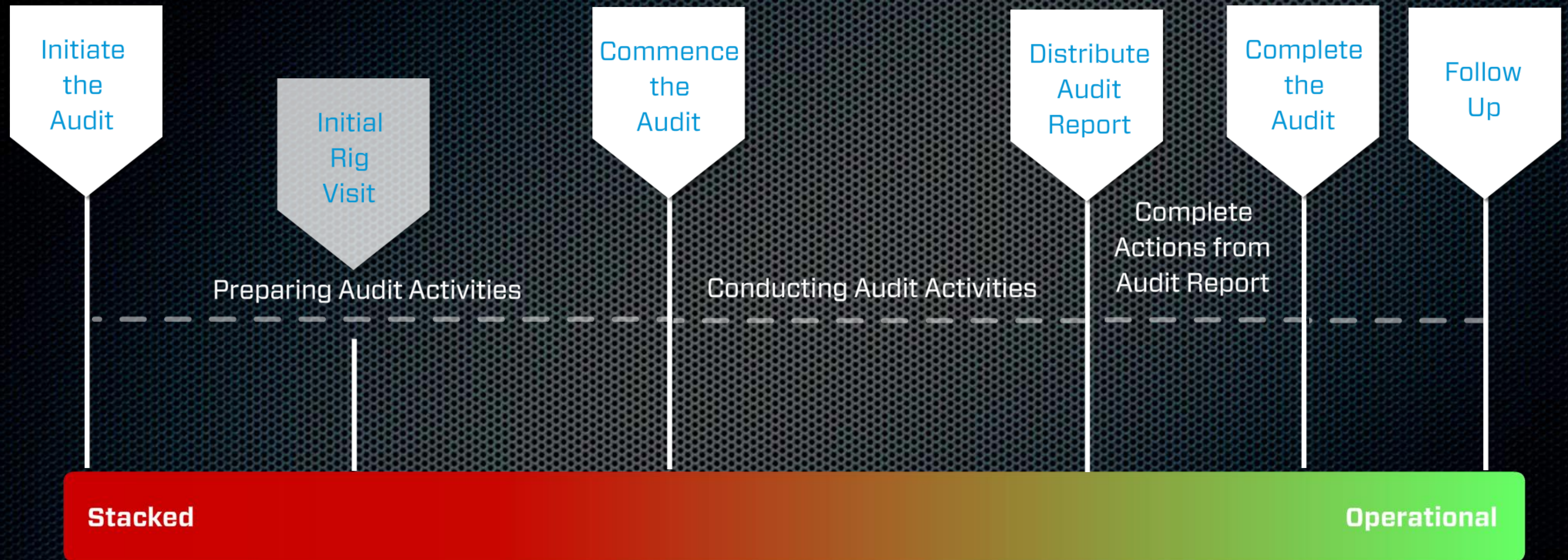
## 4 SPECIALIST INSPECTION DIVISIONS

all4one





# ISO 19011 AUDIT ACTIVITIES





# AUDIT FINDINGS - NON CONFORMANCE Listing and Categorisation

	Non Conformance Description	Standard	Status	

**1) What the finding was**

**2) How the finding was made**

**3) What the condition should be**

**4) How we know what the finding should be.**





# AUDIT FINDINGS - NON CONFORMANCE

## Listing and Categorisation

CRITICAL	The Non Conformance refers to essential equipment, processes and systems that were being inappropriately used, exceed operational limits, were out of service or obsolete to a point that may lead to loss of life, a serious injury or environmental damage
MAJOR	The Non Conformance refers to essential equipment, processes, and systems that were being ineffectively used, approaching operational limits or experiences some downtime to a point that may lead to damage to essential equipment or have a detrimental effect on the drilling operation.
MINOR	The Non Conformance refers to equipment, processes and systems that may have minor deficiencies observed that may lead to a situation that contributes to an incident or to circumstances in which the required standards of operation were not met.

*Reference OGP Report #423, published June 2010*



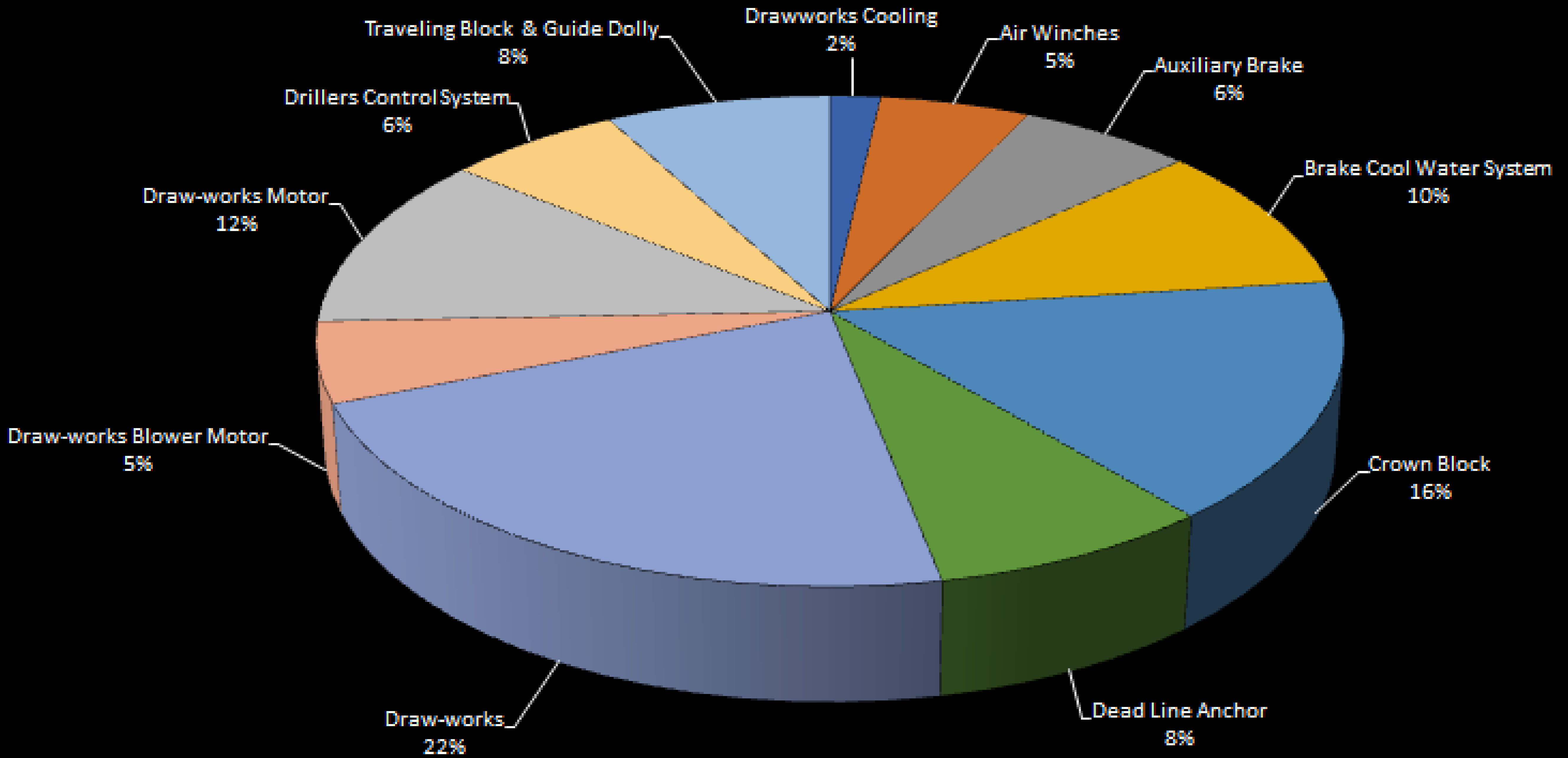


E N G I N E E R E D P E R F O R M A N C E W O R L D W I D E





# Lessons Learned – Hoisting System

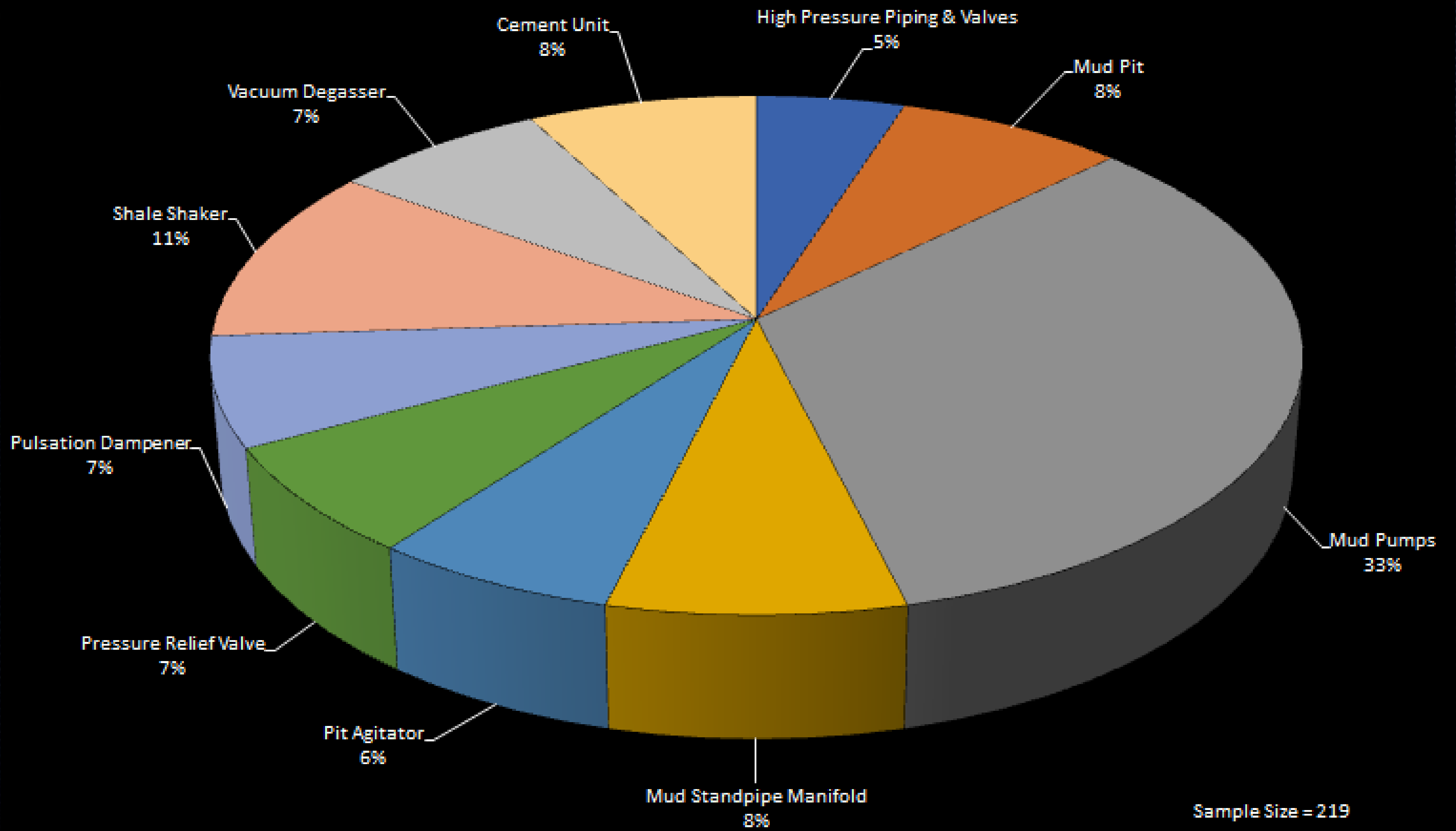


Sample Size = 113



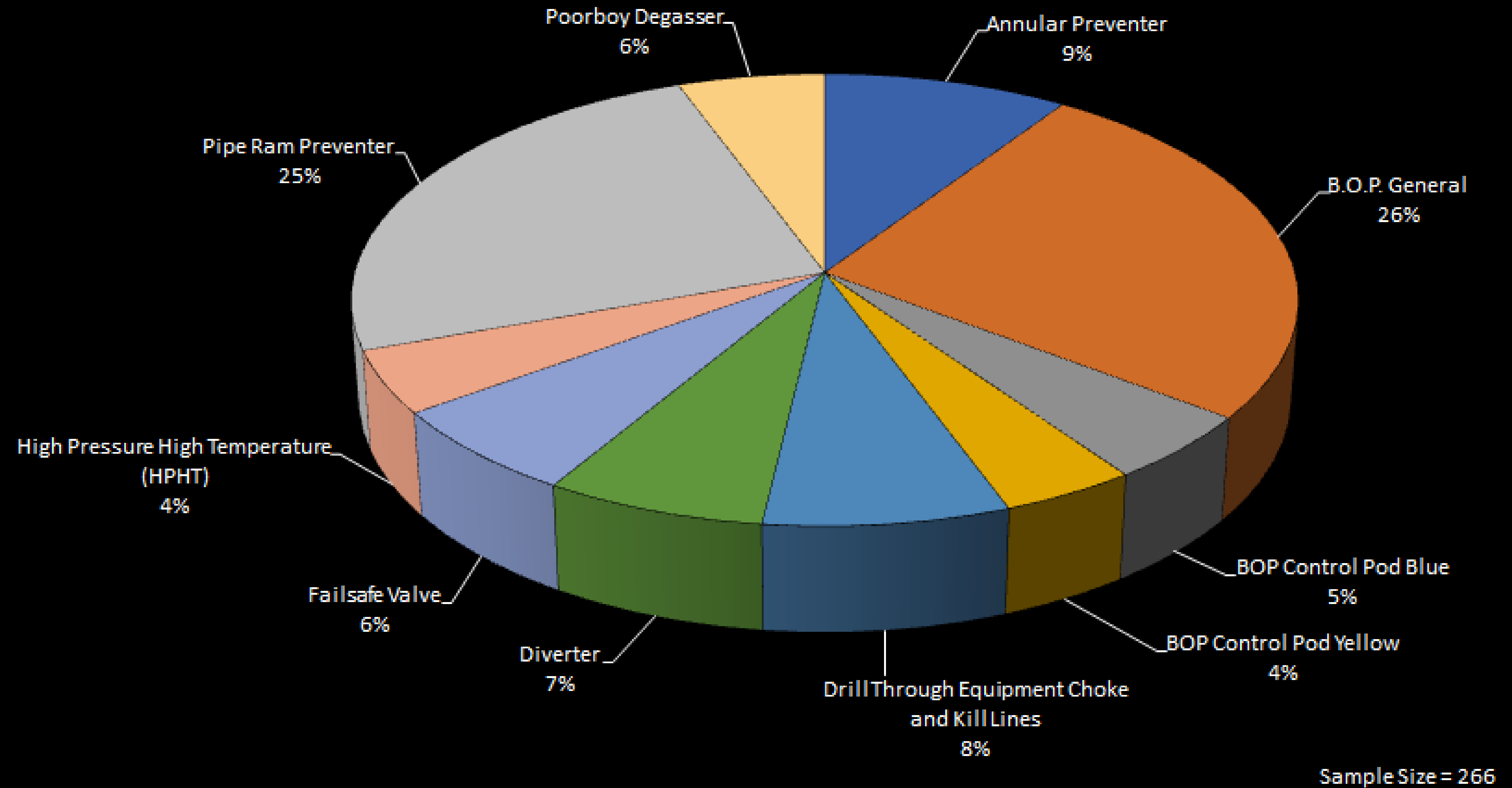


# Lessons Learned – Bulk, Cement and Mud



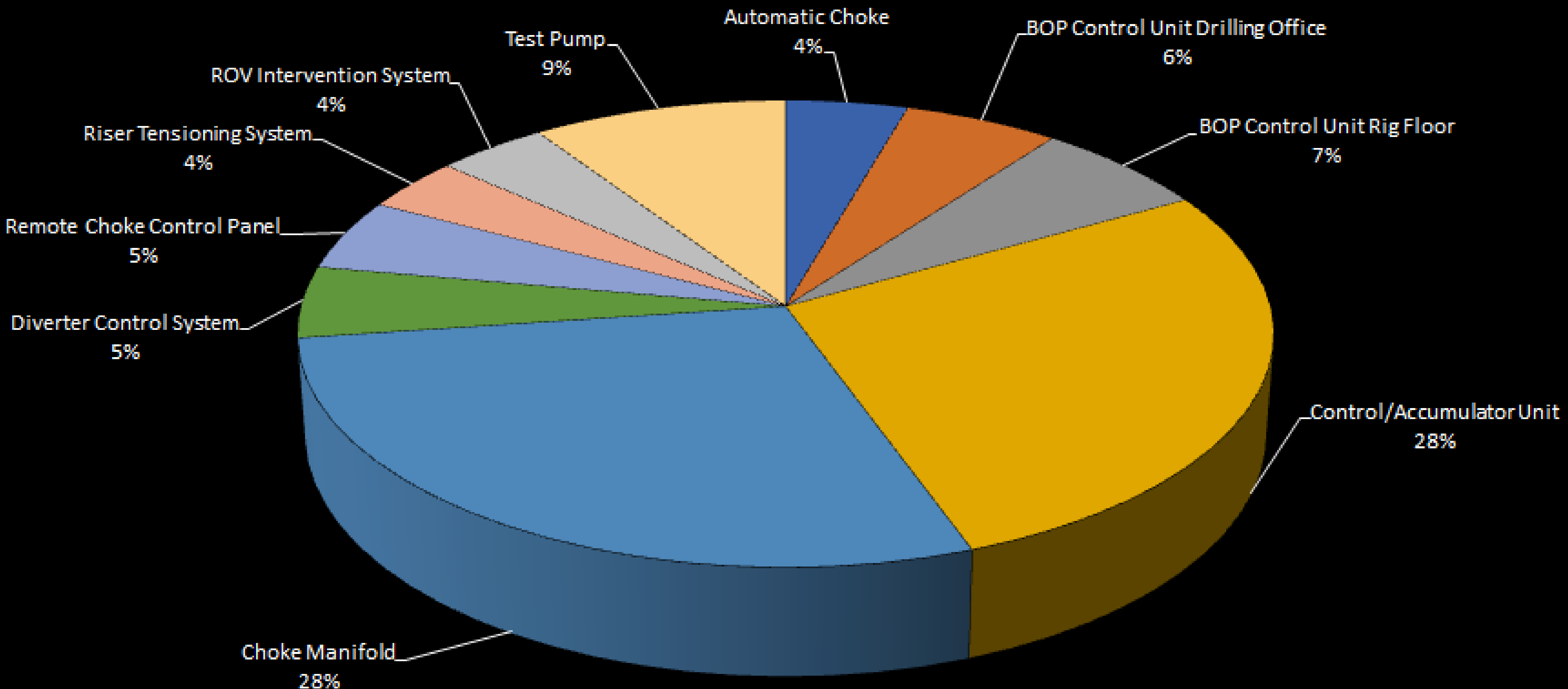


# Lessons Learned – BOP





# Lessons Learned – BOP Controls

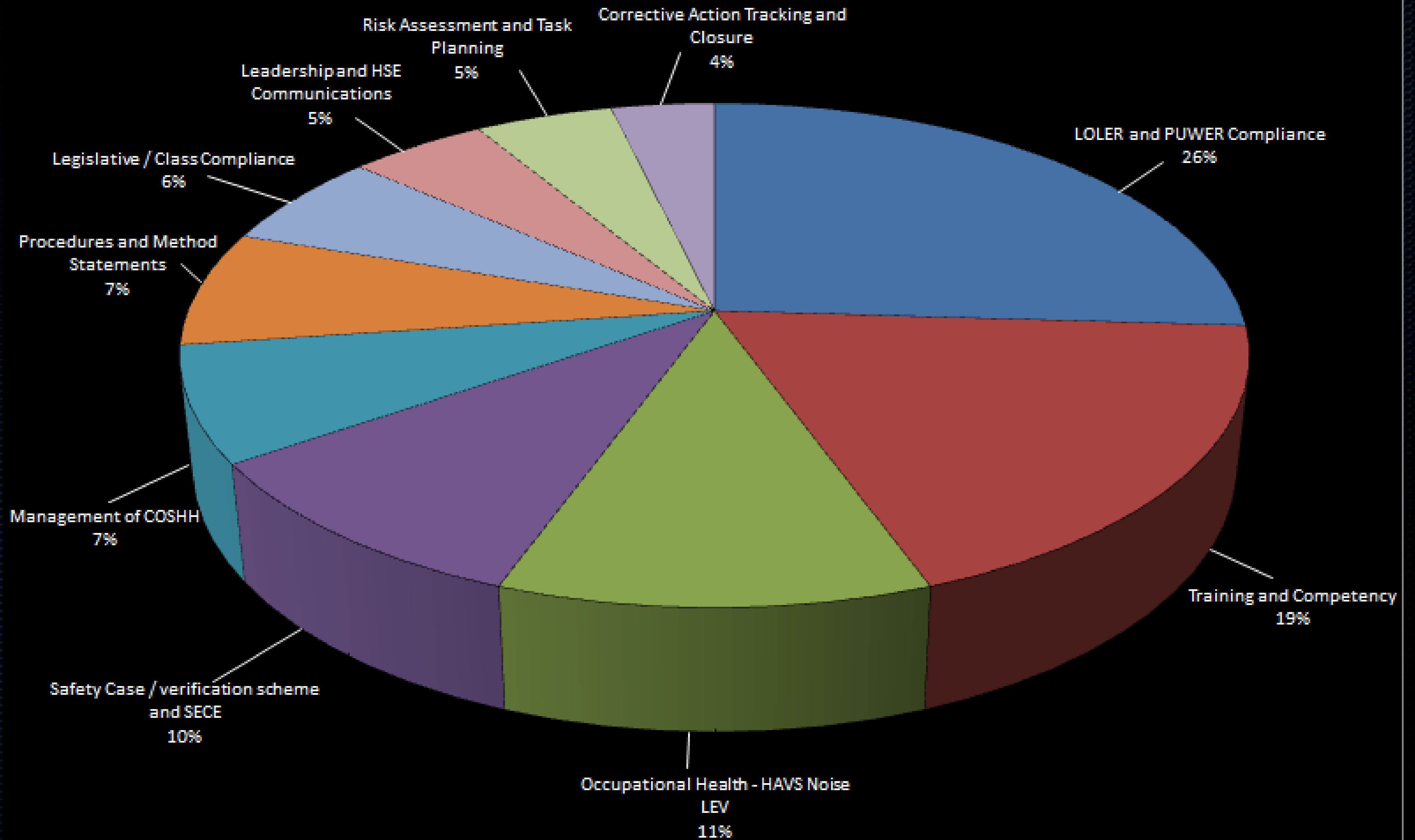


Sample Size = 243





# Lessons Learned – HSE Aspects





# RECAP

**Considerations in Reactivation**

**ADC's Approach**

**Preparation**

**Communication**

**Hand Over**

**Lessons Learned**





E N G I N E E R E D P E R F O R M A N C E W O R L D W I D E

# QUESTIONS

