ASSET INTEGRITY KPI IN USE IN THE UK

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PIPER ALPHA – 6TH JULY 1988

167 KILLED
MAJOR HAZARD MANAGEMENT PROCESS

- QRA
- Fire Risk Analysis
- Dropped objects
- Ship collision
- Etc.

Safety Assessments

- Describes
- Facility
- SMS
- Hazards and Risks
- Justifies continued operation

Major Accident Hazards (MAH)

- Role to:
  - Prevent
  - Detect
  - Control
  - Mitigate MAH

List of Safety Critical Elements (SCEs)

- Details SCE
  - Functional performance
  - Reliability
  - What MAHs to survive
  - Assurance activities

Performance Standards & Verification Scheme

- Verification can be by:
  - Witness test
  - Inspection
  - Audit
  - Review records

Independent & Competent Person (ICP)

ELEMENTS OF KPI SCHEME

KPI-1
Hydrocarbon Releases

KPI-2
Verification Findings

KPI-3
Safety-critical Backlog

Hydrocarbon Releases

Verification Findings

Safety-critical Backlog

KPI-1
KPI-2
KPI-3

lagging
leading
Based on a review of 3 years experience we are now:

**KPI-1: Hydrocarbon Releases**
- HSE is currently upgrading the database.
- Data is now published on Oil & Gas UK website

**KPI-2: Verification Findings**
- Collating data on process containment N/Cs
- Tracking top 3 SCEs featuring N/Cs to identify common areas for improvement
- Tracing % verification activity completed

**KPI-3: Safety Critical Maintenance Backlog**
- Moving to % SC maintenance incomplete in period rather than showing man hours only
- Drilling further into data to understand issues and improvement needs
KPI-3 BACKLOG AS % OF PLANNED MAINTENANCE

Planned in Backlog

ICP ACTIVITY COMPLETION %

86% (both onshore and offshore are included)