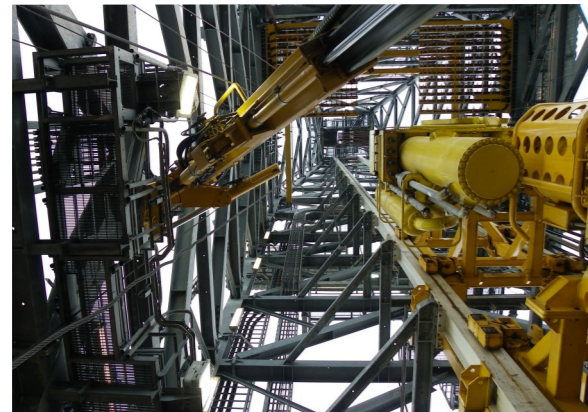




## TECHNICAL SAFETY AND RISK IN THE OIL AND GAS INDUSTRY



### ► SAFETY CASES

- TECHNICAL SAFETY AND RISK
- PERFORMANCE STANDARDS
- OPERATIONS SUPPORT
- WORKSHOP FACILITATION
- HSEQ MANAGEMENT
- AUDITS
- TRAINING

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### COMPANY OVERVIEW

*Technical Safety and Risk  
 Practical, High Value Solutions  
 Versatile and Process Focused*

The roots of the organization lie in providing safety engineering services to major offshore developments, where development of safety cases has always been a central service. Traditionally developed for facilities, but also in support of construction and drilling activities. Our background in safety engineering ensures that the technical expertise to undertake the necessary modeling and analysis required during safety case development is available.

### NOPSEMA SAFETY CASES

*Safety Cases to meet the requirements of the OPGGS(S)R 2009 as regulated by NOPSEMA MODU Safety Cases in IADC format Performance Standards*

To successfully operate in Australian Offshore waters, the development and approval of a safety case by NOPSEMA is essential. HSEassist have considerable experience in the development of safety cases for production facilities, MODUs, construction / special purpose vessels, both for base case operations and campaign specific revisions. We ensure the product is fit for purpose and excellent value. We offer a proven track record, quick turn-around times, excellent value, and a process focused product, which satisfies the requirements of the regulator, improves safety, and reduces risk.



### IADC SAFETY CASES

*Safety Cases presented in the format stipulated by the International Association of Drilling Contractors, and also accepted by many global O&G industry regulators*

The International Association of Drilling Contractors (IADC) have developed industry guidance for the development of safety cases for drilling related facilities. HSEassist have developed an efficient framework and process for developing IADC safety cases which can be applied to offshore or onshore drilling rigs. The IADC format safety case is often implemented in Australia, but is also increasingly common amongst overseas regulators and operators. As the requirement for a Safety Case becomes more prevalent, HSEassist can provide high value cost effective solutions for any regulatory environment, which effectively demonstrate risks associated with operating the facility are ALARP (As Low As Reasonably Practicable).

### WORKSHOP FACILITATION

*HAZID, HAZOP, ENVID, BOWTIE, CONSTRUCTABILITY, PERFORMANCE STANDARDS, ALARP, SIMOPS, RISK AND OPPORTUNITY*

Workshops are an essential part of the oil and gas industry, and in particular safety cases. For Australian NOPSEMA format safety cases we facilitate hazard identification workshops, major accident event (MAE) analysis workshops (also known as BowTie analysis workshops due to the method adopted), and ALARP (As Low As Reasonably Practicable) workshops. For IADC format safety cases, a SOOB workshop may also be undertaken, which focuses on simultaneous operations, and defining acceptable boundaries for operations in the event safety critical systems are impaired or offline.

## BASE CASE, CAMPAIGN AND PROJECT SPECIFIC SAFETY CASES, FOR THE OIL AND GAS INDUSTRY

### FIRE AND EXPLOSION ANALYSIS

HSEassist use CasQade Consequence Modelling software for deterministic fire and explosion modelling. Additionally we have extensive experience in the use of DNV PHAST, which can be used if requested by a client. Our personnel are experienced in the use of these and other modelling software packages for Fire and Explosion Analysis for a wide range of facilities. Where deterministic models fall short, we conduct in-house CFD analysis. Additionally, we have a partner company that specializes in that field and can therefore provide even more complex and detailed CFD analysis as an integrated service managed by HSEassist.

### PERFORMANCE STANDARDS

Performance standards are becoming an area of considerable focus, particularly in the drilling industry, as a means of improving the performance of safety critical systems, and ensuring testing and maintenance adequately assures ongoing effectiveness. HSEassist have serviced offshore operators and contractors by providing high quality integrated performance standards, which improve reliability and the effectiveness of critical systems. We can manage the entire development process, and liaise closely with maintenance personnel to ensure integration with the maintenance system. This is possible due to the unique combination of expertise present within the organization, which includes personnel with considerable operational, design and construction experience.

