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## Services Performed

IRC prepared a Simultaneous Operations (SIMOPS) Safety Case for drilling, well clean-up, and pre-commissioning activities at the BHP Billiton (BHPB) Angostura Field Development.

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## Objectives

- Define the nature and scope of SIMOPS and outline the facilities involved, using visual tools where appropriate to illustrate facility features and conceptual information
- Describe the installation's interfacing, in terms of the engineered hardware and the health, safety and environment management systems
- Summarize the results of the relevant hazard and risk assessments undertaken to support the SIMOPS

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## Project Description

Angostura is an oil and gas development off the northeast coast of Trinidad, comprising a central processing platform, wellhead platforms and an export pipeline system linked to an offshore loading buoy and an onshore terminal.

During field construction, a number of simultaneous operations occurred involving BHPB and third parties. The purpose of the SIMOPS Safety Case was to ensure that hazards associated with the operations were identified and assessed, and that associated risks were managed to As Low As Reasonably Practicable (ALARP).

The SIMOPS Safety Case comprised:

- Introduction and outline of concurrent operations
- Facilities description, referenced to Basis of Design data
- Detailed description of facilities' interfacing
- Interfacing with BHPB's HSE Management System
- Risk assessment
- Safety Case implementation



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## Key Benefits to Client

- Client and project partners received a "living" SIMOPS Safety Case, containing information and tools that could be used to make the facility a safer place to work
- Client was assured that risks associated with SIMOPS were managed to ALARP