



Services Performed

IRC performed a course quantitative risk assessment (QRA) for the British Gas Trinidad and Tobago (BG) Poinsettia platform, addressing and comparing the risks involved in two options for the facility's personnel accommodation.

Objectives

- Determine key risk-based decision criteria against which to compare the two accommodation options
- Perform an assessment of the comparative risk against these criteria
- Draw conclusions as appropriate in order to assist BG in its decision making process

Project Description

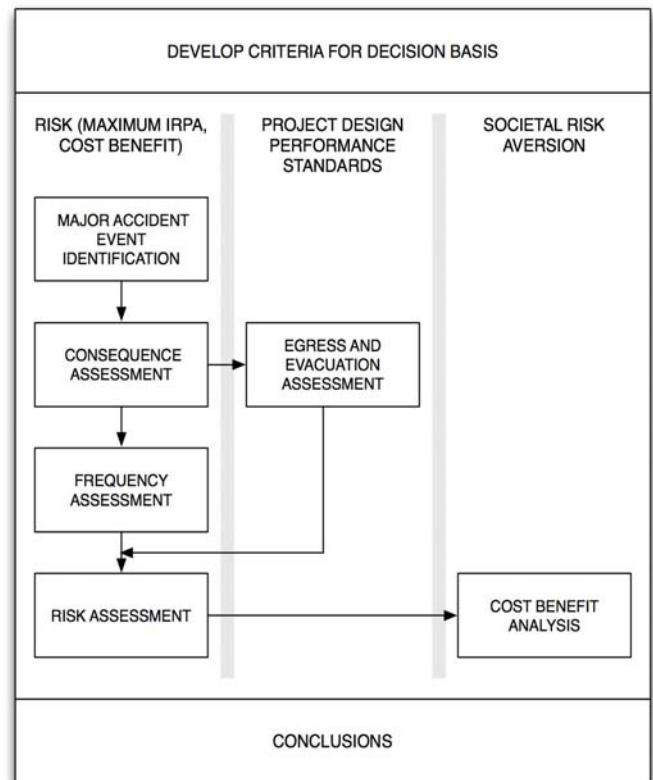
BG is currently developing the Poinsettia gas field offshore Trinidad. The development consists of a not normally manned wellhead platform with minimal gas processing facilities, and a subsea tieback to the platform.

During early field life, wells will be drilled, completed, and brought online from the platform simultaneous with production, which will necessitate the need for additional personnel and, hence, additional accommodation units on the platform.

In order to provide guidance to BG on the choice of accommodation, IRC developed a decision basis methodology as follows:

- Evaluate risk: identify major accident events, assess consequences, assess frequency
- Examine project design and performance standards, and determine how critical systems are expected to perform
- Compare risk with societal aversion (i.e., undertake a cost-benefit analysis to ensure risk is tolerable)

IRC employed its in-house QRA model to carry out the analysis.



Key Benefits to Client

- The study provided BG with a clear determination of the best accommodation option including a step-by-step analysis of the way in which this conclusion was reached
- Safety related recommendations were made to improve design and operational decision-making at an early stage of the project