

Risk Analysis of a DP Diving Vessel Up Weather Of Platform and Jack Up.

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Abstract

In July 2004 BHP Billiton (BHPB) were planning to install a number of pipeline spool pieces using a Class 3 DP vessel at facilities in the Angostura Field located offshore Trinidad. The vessel was to conduct diving operations on DP in proximity of the three fixed platforms. Jack up drilling rigs would be alongside two of these platforms.

At a HAZID meeting it was noted that the DP vessel would have to approach to within 30 meters of the above platforms and jack ups on a heading that would put the vessel beam to the prevailing current. Concern was expressed by BHP Billiton and the drilling contractors about the risk of a collision in the event of a DP problem. Global Maritime were therefore requested to quantify and mitigate the risks this DP operation.

The key objective of the work was to assess the potential risk associated with loss of position of the vessel such that she might collide with a platform or a jack up while operating in such close proximity. Then to identify suitable and appropriate risk mitigation measures to ensure the risks of the operation were as low as reasonably possible (ALARP).

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