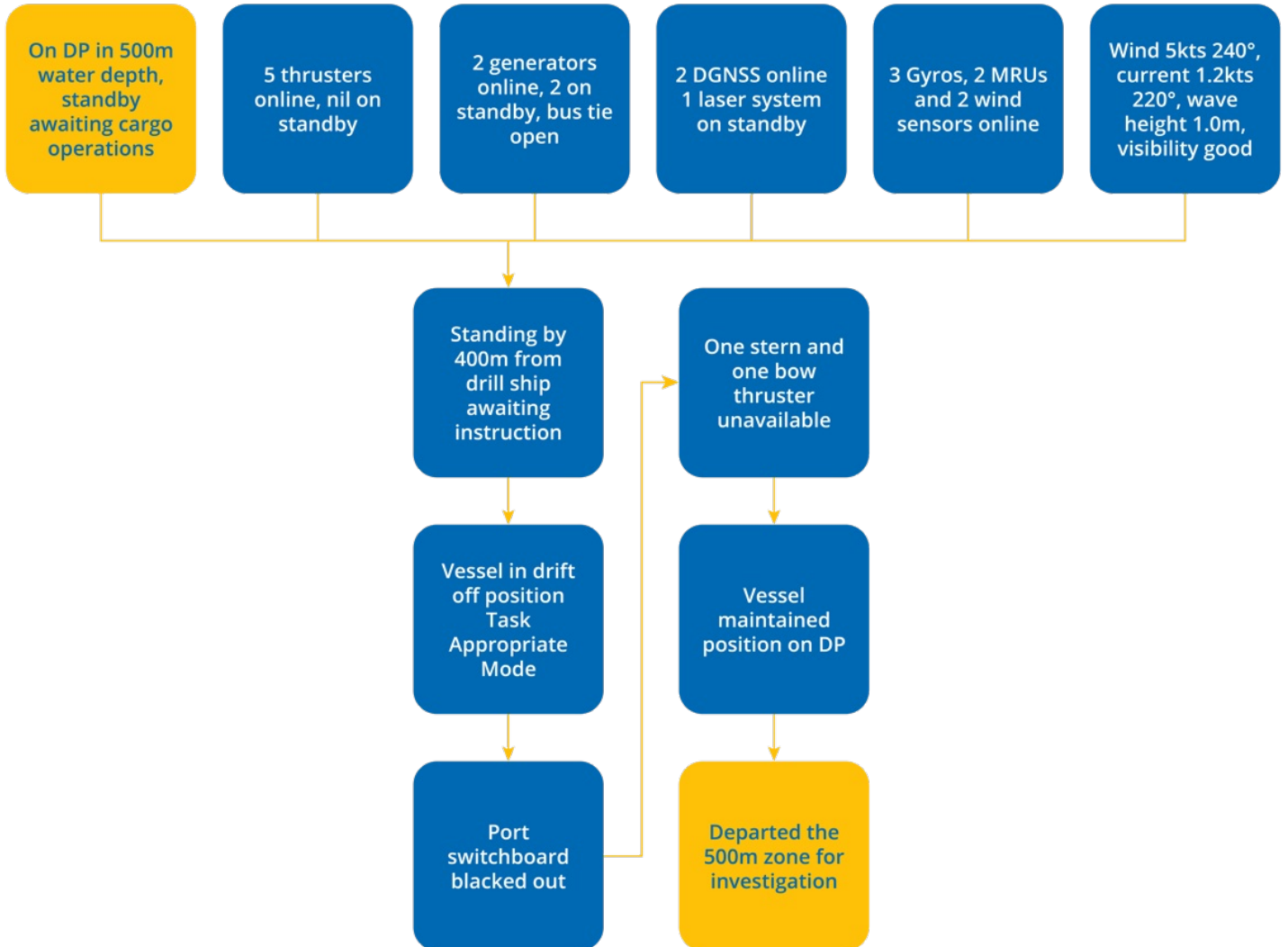


## Unreliable component causes an undesired event

Undesired event ●

DP Event • Published on 25 February 2020 • Generated on 24 January 2025 • DPE 01/20

Though redundancy is a must in DP 2/3 designs, component quality may impact the likelihood of such DP events occurring.



## Comments

Investigation found that a 24v bridge rectifier supplying voltage to the main generator switchboard breakers one and two had burned out.

The age and quality of the rectifier was thought to be the main reason for failure. Planned maintenance routines were updated and shared with the fleet. It was recognised that the system was vulnerable due to a single 24v bridge rectifier supplying the entire port switchboard.

## Considerations

The vessel validated that it could maintain position following the worst-case failure of a complete switchboard. Though redundancy is a must in DP 2/3 designs, component quality may impact the likelihood of such DP events occurring.

*The case studies and observations above have been compiled from information received by IMCA. All vessel, client, and operational data has been removed from the narrative to ensure anonymity. Case studies are not intended as guidance on the safe conduct of operations, but rather to assist vessel managers, DP operators, and technical crew.*

*IMCA makes every effort to ensure both the accuracy and reliability of the information, but it is not liable for any guidance and/or recommendation and/or statement herein contained.*

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