

IMCA DP Station Keeping Event Bulletin 01/16

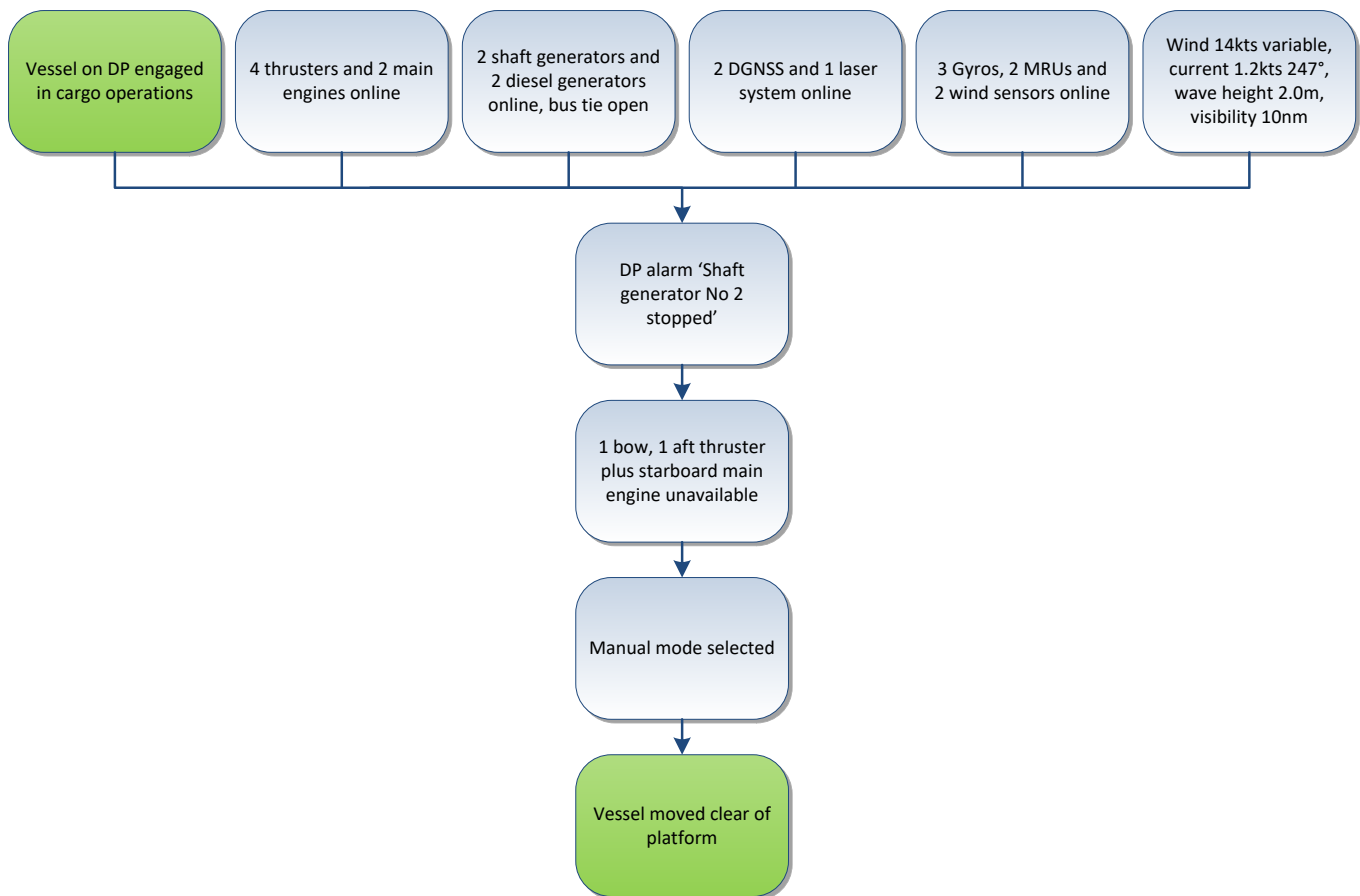
May 2016

The following event trees have been compiled from recent reports received by IMCA. The originators granted IMCA permission for the trees to be analysed and commented on by the IMCA DP Focused Workgroup. To ensure anonymity not all of the information contained in the original report was made available to the persons analysing these event trees.

Vessel managers, DP operators and DP technical crew should consider if these events and comments are relevant to their own vessel DP operation so that they can be used to assess and assist the safe operation of the vessel.

Any queries regarding this bulletin should be directed to IMCA Technical Adviser Andy Goldsmith (andy.goldsmith@imca-int.com). Members and non-members are welcome to contact Andy if they have experienced DP events which can be securely analysed and then shared anonymously with the DP industry.

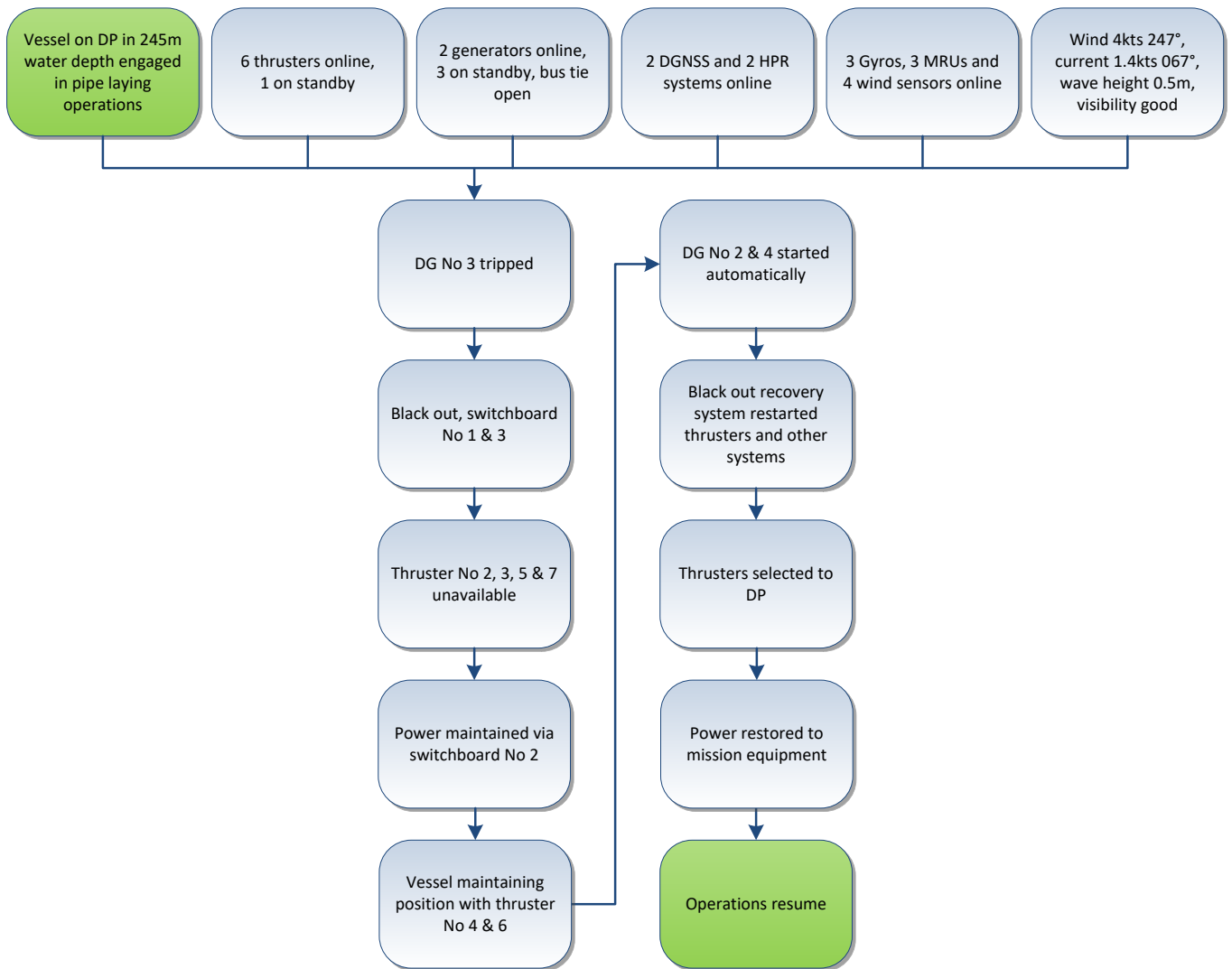
1 Thruster Unavailability



Considerations from the above event:

- ◆ From the information provided it would appear that the vessel is set up so as to allow for the worst case failure (WCF). Therefore, if it had been deemed necessary, the vessel would have been capable of remaining on automatic DP following the failure of No 2 shaft generator.

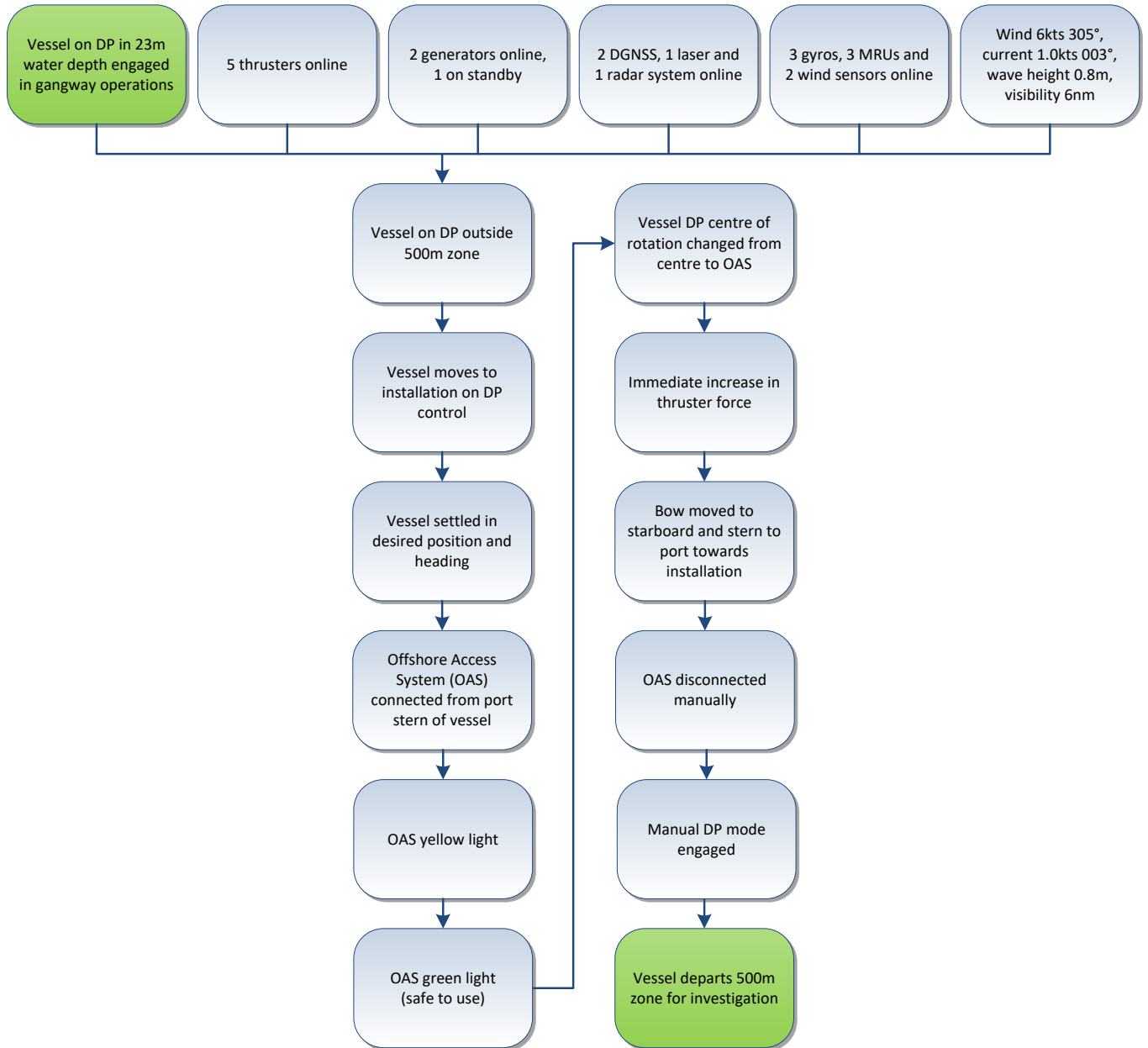
2 Power Distribution



Considerations from the above event:

- ◆ With only two diesel generators on line the DPO must be fully aware of the consequences of a worst case failure (WCF).

3 Change of Vessel Centre of Rotation



Considerations from the above event:

- ◆ The centre of rotation should not be changed during critical operations.
- ◆ Because of the likely increase in length of the lever to control heading, careful consideration regarding power availability and requirements is needed whenever the centre of rotation is changed.
- ◆ If wind sensors are being shielded this could have a greater influence on the vessel model when the centre of rotation is changed.
- ◆ Whenever possible field entry trials should be conducted with the same system configuration as that required for operations.