

# CRANE LIFT PLAN ASSESSMENT

A lift plan must be developed in advance of any critical high-risk lifts and shall consider:

- Appropriate sizing/selection of the lifting device(s) for the planned loads.
- Measures to eliminate unnecessary personnel, vehicles and other plant from the lift zone.
- Environmental factors, such as overhead power lines, underground culverts, utilities, drains and other structures in the vicinity.

All persons on site that will be affected by the lift and crane operation must be formally instructed on the safe work procedures.



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### Description of Any Possible Interaction with Other Activities on Site

### Controls to Eliminate or Minimise Interaction with Other Activities on Site



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### Method of Communication Between Operator, Rigging and Lifting

Hand Signals

Whistle Bell System

Verbal Radio

Other

### This Section Must Be Completed for all Lifting High Risk Crane lifts

Item to Be Completed	Crane 1	Crane 2	Crane 3
1. Lifting Capacity (LC)			
2. Type (Crawler, Lull, Tracked)			
3. Model / Model			
4. Boom Length (m)			
5. Jibs / Jibs			
6. No. of Jibs			
7. Counterweight (t)			
8. Outriggers Configuration			
9. Stowage / Stowage (t)			
10. Total of Jibs			

11	Line Pull (t):			
12	Size of Cable (mm) / Cap. (kN):			
13	Hook No. and Type:			
14	SWL (t):			

#### Aux Hoist



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#### 15. Main hoist cable to the hook (t)

15.1 Minimum 25% extension in all cases

#### 16. Main hoist hook (t)

#### 17. Main hoist hook to the hook (t)

#### 18. Rigging - below (t)

#### 19. Hoist cable rated grade (t)

20. Total rated capacity (t)

**Multiple crane factor - Minimum crane capacity - percentages applicable to - as follows**

1) For two cranes - 80 percent greater than the calculated share of the load

2) For three cranes - 80 percent greater than the calculated share of the load

3) For four or more cranes - 80 percent greater than the calculated share of the load

#### 21. Check 10% of crane 10% rated

#### 22. Main hoist hook (t)

#### 23. Rigging

#### 24. % of crane 10%

#### 25. Main hoist hook rated (t)

#### 26. Total rated capacity (t)

33	Pressure = [31] ÷ [32] (t/m <sup>2</sup> ):			
34	Lifting Frame / Beam SWL (t):			



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Measurement	Condition	Value	Unit
1. Working			
2. Light for work			
3. Wind			
4. Weather			
5. Visibility			

## Other Diagrams

Please attach the load and make the following points:

- Crane standing position
- Lifting location
- Center of rotation
- Radius line of jacking and placement
- Lifting method

## Location Diagram

- Location and position of power lines, structures and other items etc.
- Beam length and angle of jacking
- Lifting area and direction, ensure to complete an accurate assessment of the height of the structure to be lifted.

**Note:** Any hazards identified that are not listed must be added and assessed and corrected as they must be taken before commencing the lift.

**Be sure to indicate the clear direction of travel in the diagram.**



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By signing this consent, the undersigned acknowledges that it/they have been provided with the opportunity to comment on the formulation of such methods, the identification of targets associated with the work and the development of control measures that will allow the work to be undertaken safely.



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