



Cranes

CRITICAL LIFT PLAN REQUIREMENTS

Location: _____ Date of Lift: _____

Load description: _____

Lift description: _____

Attach drawings of crane lift, site plan, and load placement

Attach drawings of rigging, connections, sling angles and load.

A. Load		lbs.
1. Wt. of load	_____	- lbs.
2. Wt. of aux. block	_____	- lbs.
3. Wt. of main block	_____	- lbs.
4. Wt. of lifting beam	_____	- lbs.
5. Wt. of slings/shackles	_____	- lbs.
6. Wt. of jib (erected/stowed)	_____	- lbs.
7. Wt. of hoist rope (extra)	_____	- lbs.
8. Wt. of Excess load material	_____	lbs.
9. Other 1/2 brackets 3370lb	_____	lbs.
TOTAL	_____	- lbs.

Source of Load Wt. Information:(Drwgs, Calcs, etc.)

Attach supporting documentation.

Load Wt. Confirmed by: _____

?

B. CRANE	
1. Type of Crane	Make: _____ Model: _____
2. Boom Length	0 ft.
3. Radius at Pick-up	0 ft. At landing 0 ft.
4. Crane capacity @ radius for 360 ° Rotation?	0 lbs.
5. Boom Angle at Pick-Up	0 ° At landing 0 °
6. Max. Rated capacity of Crane at this Radius and boom angle for this Lift is?	_____ - lbs.
7. Max Load on crane is?	_____ - lbs.
8. Lift is what (%) of cranes rated capacity?	#DIV/0!

Divide line 6 by line 7 for % of load chart used.

Derates due to wind speed: _____ % at 0 MPH

C. JIB	
1. Erected	0 Stowed 0
2. If jib to be used: Length	0 ft. Angle 0
3. Rated capacity of jib from chart	0 lbs.

D. HOIST	
1. Rope diameter:	0 Number of Parts: 0
2. Lift capacity based on line parts	_____ - lbs.

E. RIGGING	
1. Hitch type	<input type="checkbox"/> Straight <input type="checkbox"/> Basket <input type="checkbox"/> Choke
2. No. of Slings	Size SEE Rigging Diagram
3. Sling assembly rated capacity	_____ lbs.
4. Shackle size	No. of Shackles
5. Shackle rated capacity	_____ lbs.
6. Shackle attached to Load by:	

F. Crane Placement	
1. Any deviation from firm level ground?	<input type="checkbox"/> YES <input type="checkbox"/> NO
1A. Are there any underground voids?	<input type="checkbox"/> YES <input type="checkbox"/> NO
2. High Voltage or electrical hazards?	<input type="checkbox"/> YES <input type="checkbox"/> NO
2A. If yes, Powerline Permit completed?	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. Any excavations close by?	<input type="checkbox"/> YES <input type="checkbox"/> NO
3A. If so, has a PE calculated safe working distance?	_____ ft.
4. Obstacles/obstruction to lift or swing	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. Travel required?	<input type="checkbox"/> YES <input type="checkbox"/> NO
5A. IF so, is travel path clear?	<input type="checkbox"/> YES <input type="checkbox"/> NO
5B. Load Radius during Pick & Carry	? ft.
5C. Crane Capacity (Derate %)	?
6. Swing direction?	?

G. CONSIDERATIONS	
1. Any Changes in crane configuration, placement, rigging lifting scheme, or calculations require that a new critical lift plan be developed. <input type="checkbox"/> YES <input type="checkbox"/> NO	
If yes explain: _____	
H. SIGNAL SYSTEM <input type="checkbox"/> Signalman <input type="checkbox"/> Radio <input type="checkbox"/> CCTV <input type="checkbox"/> Other	

I. PRE-LIFT CHECKLIST COMPLETED PRIOR TO LIFT	
1 <input type="checkbox"/> On The Spot Lift Plan Pages 1-3	10 <input type="checkbox"/> Rigger Qualifications
2 <input type="checkbox"/> Crane Inspection	11 <input type="checkbox"/> Signal System
3 <input type="checkbox"/> Rigging Inspection	12 <input type="checkbox"/> Tag Lines
4 <input type="checkbox"/> Crane Set-Up	13 <input type="checkbox"/> Wind/Temperature
5 <input type="checkbox"/> Swing Room	14 <input type="checkbox"/> Safety Spotter
6 <input type="checkbox"/> Hoist Height	15 <input type="checkbox"/> Traffic
7 <input type="checkbox"/> Head Room	16 <input type="checkbox"/> Site Control
8 <input type="checkbox"/> Crane Counterweight	17 <input type="checkbox"/> Signatures
9 <input type="checkbox"/> Operator Qualifications	18 <input type="checkbox"/> Powerline Permit

J. NOTES/COMMENTS	
Prepared By: Wes Renton Date _____	
Reviewed By qualified person: _____ Date _____	
Project Mgr. _____ Date _____	

Crane Planning / Approval Matrix

Review all Sections Necessary of the CCPM During Planning for Compliance of all Lifts	Condition		Planning Requirements			Approval Requirements							
	Section in the Corporate Crane Procedures Manual (CCPM)	Percent of Capacity at Given Radius on Load Chart and/or Multiple Conditions Require all Applicable Planning Requirements	On The Spot Lift Plan Section 1	On The Spot Lift Plan Section 2	Critical Lift Plan	Qualified Person	Discipline Superintendent	Construction Manager	Project Manager	Equipment Operations Manager or Designee	Regional Equipment Manager or Designee	Qualified Engineer	District Manager or Designee
General Lift Criteria	1-E	Less Than or Equal to 75%	✓										
	3-A	Greater Than 75% and Less Than 85%	✓	✓			✓						
	1-E	Utilizing More Than One Hook on a Crane (Total load less than capacity of one hoist line)	✓	✓		✓	✓						
General Lift Criteria Tower Crane	1-E	Less Than or Equal to 90%	✓										
	3-A	Greater Than 90% (Radio Approval)	✓	✓			✓						
Critical Lift Criteria	3-A	Greater Than 85% and Less Than 95%			✓		✓	✓	✓				
	1-E	95% to 100%			✓		✓	✓	✓		✓	✓	
	3-H	2 or More Cranes Less Than 75%			✓		✓	✓	✓				✓
	3-H	2 or More Cranes Greater Than 75%			✓		✓	✓	✓		✓	✓	✓
	3-I	Lifting of Personnel			✓		✓	✓	✓				✓
	1-E	Utilizing More Than One Hook on a Crane (Total load more than capacity of one hoist line)			✓		✓	✓	✓			✓	
	3-A	360 Degree Chart Cannot Be Used			✓		✓	✓		✓			
	1-E	Attachment Points Below COG and Load Rotated			✓		✓	✓	✓				
	1-L	On Rubber/Lift and Carry (RT)			✓		✓	✓					✓
	1-M	Other than Fully Extended Outriggers			✓		✓	✓		✓			
	1-F	No Salaried Superintendent and Designated Spotter						✓					✓