



Critical Lift Plan Form

PART A. - MANDATORY

Job # / WO #:									
Date Prepared:	Location:	Location:							
Date of Lift:	Specific Location:								
Contractor:	Item to be lifted:								
DO NOT LEAVE ANY BLANK S	BPACES ON THIS FORM!								
Part R "Critical Lift Plan" shall be	prepared for any of following condi	itions (indicate Yes or N	0) -						
a) When required by Tampa E			J Yes	☐ No					
b) When required by Contracto		_		□ No					
c) When required by contract of				□No					
d) For Multiple Crane lifts		_		□ No					
e) For Personnel lifts.				□ No					
,	iter than 75% of the crane's rated gros	_		□No					
(See page 5 for crane percenta		-		_					
	that would be difficult to replace due	to cost or delay	Yes	□No					
h) For other reasons:	Contract		Yes	□No					
ls Part "R" Lift Plan requi	red?	Г	່່∏Yes	□No					
	Answer is Yes if any of the above are mark								
"Ground Condition Poport" speci	fic to the lift area will be required if	any of the following cor	ditions oc	011r.					
i) When required by Tampa Elec	·	_		□ No					
j) When required by Contractor.	ine Company.			□ No					
k) When required by contract doc	ument.			□ No					
,			_	_					
ls a Ground Condition Re	eport for Lift Plan required?	(Answer Yes if a	Yes ny of the above	No e is Yes.)					
-		(711101107 700 17 41							
The Crane Competent Person for	•								
Print Name	Assigned b	oy:							
Note: The Crane competent Person	n will receive a copy of the entire lift plan a	nd maintain a file for those p	lans.						
Part A "Preliminary Lift Plan	" is reviewed and agreed to b								
Tampa Electric Representative:		D	ate						
rampa Electric Representative.	Print Name	Signature							
Primary Contractor:									
Timary Contractor.	Print Name	Signature							
Sub-Contractor:									
Cab Contractor.	Print Name	Signature							
Crane Competent Person:									
	Print Name	Signature							
Other: Company Name	Print Name	Signature							

			PART B Required? Yes No
Job No.:	Pro	oject Name	a:
Date Prepared:		cation:	
Date of Lift:		ecific Loca	ation:
Contractor:		m to be lift	
		11 10 20 111	
DO NOT LEAVE ANY BLANK SI	PACES C	ON THIS	FORM!
LIFT PLAN CAN ONLY ELECTRONICALLY PRODUC			JPON WHEN IT IS COMPLETED IN FULL, A FINAL REVIEW AND IS APPROVED.
LIFT PLAN MUST BE DISC TEAM WHO MUST AGREE V			WED AND UNDERSTOOD BY THE CRANE LIFT ONS THEREOF.
LIFT PLAN MUST BE READ OR JOBSITE TO REVIEW.	ILY AVA	ILABLE	FOR ANY PERSON ON THE CRANE LIFT TEAM
Drawing or Document	Yes / N	<u>lo</u>	Drawing or Document Identification and #
Plan View of Job Site:	☐ Yes	☐ No	
Plan View of Lift Site:	☐ Yes	☐ No	
Elevation View of Lift Site:	☐ Yes		
Ground Condition Report:	☐ Yes		
Load Weight Information:	☐ Yes		
Rigging Assembly:	☐ Yes		
Load Capacity Chart, Crane #1:	☐ Yes		
Load Capacity Chart, Crane #2:	☐ Yes	□No	(If No, explain:)Only using one crane
Other (provide description):	☐ Yes	□No	
Other (provide description):	☐ Yes	□No	
(Yes only options are mandatory documen	ts)		
Plan View of Job site, to include	routing f	or crane	s, trucks and other essential vehicles.
			ment, intermediate load placement and final load ne swing path including tail-swing and all nearby
Elevation View of Lift Site, to incrigging, all nearby structures and			nd its boom, jib and counterweight configuration, load, ctions.
Ground Condition Report, for m	obile cra	ne locati	ons.
Load Weight Information, to inc	lude dime	ensions,	c/g, weight and all load attachment points.

Tampa Electric Engineering and Construction - Critical Lift Plan

CRANE LIFT TEAM

<u>Rigging Assembly</u>, to include all rigging gear and slings required.

Load Capacity Chart, for each crane, complete with boom composition and line pull information.

The following persons are identified as the "Crane Lift Team":

NAME_	COMPANY	TITLE
Dried Many		Crane Competent Person
Print Name		
Print Name	TECO	Tampa Electric Co. Representative
		Contractor Representative
Print Name		
Print Name		Rigging Competent Person
Fillik Name		
Print Name		
Print Name		
If there are additional names to be added	l to the team, then an addendum shall be added	I to this Plan. Addendum #
in thore are additional harmon to be added	to the tourn, then an addendam chair se addec	To the Fight. Addition in
DESCRIPTION OF LIFT		
		_
		_
		_

LIFTING EQUIPMENT

Identify lifting equipment required and hazards at the lifting site. Mobile Crane? ☐ Yes ☐ No If Yes, Identify Type 2nd Mobile Crane? ☐ Yes ☐ No If Yes, Identify Type: Overhead Crane? ☐ Yes □No If Yes, Identify Type: If Yes, Identify Type: Winch/Tugger/Jacks? ☐ Yes ☐ No If Yes, Identify Type: More lifting devices required? ☐ Yes ☐ No How Many? Identify 2nd Lifting Device: ____ Identify 3rd Lifting Device: Are underground utilities present? ☐ Yes ☐ No Type & Depth of Utility: Surveyed and information supplied by TECO Fire or Explosion Hazards within crane reach? ☐ Yes ☐ No Type of Hazard: Control measures planned: Electrical Hazards within crane reach? ☐ Yes ☐ No Voltage & Distance Present: Control measures planned: CRANE #1 **Mobile Crane #1 Configuration** Crane Type:

Crawler Truck ☐ All Terrain Rough Terrain ☐ Boom Truck ☐ Other Crane Manufacturer: Crane Owner: Crane Model Number: Crane Serial Number: Current Periodic Inspection Date: Type of Boom: Lattice ☐ Telescopic Main Boom Length: Is Lattice Boom composition correct: ☐ Yes ☐ No Jib/Extension Length: ☐ Main Boom ☐ Jib Accessories on Crane: Lift will be on: Other Attachments to Crane: _____ Other: Rope Capacity: # of Parts: ____ Line Pull: Hoist Rope: ☐ Main ☐ Auxiliary Boom Angle: Radius: Gross Crane Boom Capacity:

Gross Load Weight for Crane #1			
Load Block:	_lbs.	How is weight verified?	
Main Hoist Rope:	_lbs.	How is weight verified?	
Auxiliary Block or Hook:	_lbs.	How is weight verified?	
Auxiliary Hoist Rope:	_ lbs.	How is weight verified?	
Jib Weight: Stowed Erected	_lbs.	How is weight verified?	
Other Attachments to Crane Boom:	_ lbs.	How is weight verified?	
Spreader Bar:	_ lbs.	How is weight verified?	
Slings & Shackles:	_ lbs.	How is weight verified?	
Other:	_ lbs	How is weight verified?	
Other:	_ lbs	How is weight verified?	
Load Weight:	_ lbs.	How is weight verified?	
Gross Load Weight: (Total of all weights listed	d above)	_	
Maximum Boom Capacity Percentage	Gross Load Weight ÷ Cr	ana Room Canacity)	
Maximum Rope Capacity Percentage:		(Gross Load Weight ÷ Ro	

Crane Capacity Percentage Chart for Crane #1

Load Locations	Required (yes or No)	Radius	Boom Angle	Boom Length	Boom Gross Cap. (BC)	Main Boom Capacity % (GL / BC)	•	Rope Capacity % (GL / RC)
Initial Location								
1st Intermediate Location	YesNo							
2nd Intermediate Location	YesNo							
3rd Intermediate Location	YesNo							
Final Placement Location								
Gross Load Weight (G	GL):		Ma	aximum Pe	rcentages:			

	Tailing	Load O	peration
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If a tailing operation is required, then complete the following Crane Load Summary Charts for the lifting and tailing cranes.

Complete the following crane load summary chart for the primary lifting crane (Crane #1) to determine the percentages of gross capacity throughout the tailing operation.

Crane Load Summary Chart for Primary Lift Crane (Crane #1)

	rimary Lift Crana	Moment Positions					
	rimary Lift Crane	Α	В	С	D	E	
1	Moment						
2	Rigging						
3	Attachments						
4	Gross Load Weight						
5	Radius						
6	Crane Capacity						
7	% of Gross Capacity						

Formula for computing the moments during tailing for the lifting crane is (D1 / TD) X weight = moment for the lifting crane Distance from Lift lug to C.G. (center of gravity) = D1 Distance from Tail lug to C.G (center of gravity) = D2 D1 plus D2 = TD (total distance)

MOBILE CRANE #2

s a 2 nd Crane R	equired? [Yes	■ No
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Mobile Crane #2 Configuration		
Crane Type: ☐ Crawler ☐ Truck ☐ All	Terrain	☐ Rough Terrain ☐ Boom Truck ☐ Other
Crane Manufacturer:		Crane Owner:
Crane Model Number:		Crane Serial Number:
Current Periodic Inspection Date:		Maximum Allowable Wind Speed:
Type of Boom:		Main Boom Length:
Is Lattice Boom composition correct:	☐ No	Jib/Extension Length:
Lift will be on:		Accessories on Crane:
Other Attachments to Crane:		Other:
Hoist Rope:		Rope Capacity: # of Parts: Line Pull:
Boom Angle:		Radius:
Gross Crane Boom Capacity:		
Gross Load Weight for Crane #2		
Load Block:	lbs. Ho	ow is weight verified?
Main Hoist Rope:	lbs. Ho	ow is weight verified?
Auxiliary Block or Hook:	lbs. Ho	ow is weight verified?
Auxiliary Hoist Rope:	lbs. Ho	ow is weight verified?
Jib Weight: Stowed Erected	lbs. Ho	ow is weight verified?
Other Attachments to Crane Boom:	lbs. Ho	ow is weight verified?
Spreader Bar:	lbs. Ho	ow is weight verified?
Slings & Shackles:	lbs. Ho	ow is weight verified?
Other:	lbs Ho	ow is weight verified?
Other:	lbs Ho	ow is weight verified?
Load Weight:	lbs. Ho	ow is weight verified?
Gross Load Weight: (Total of all weights listed	above)	
Maximum Boom Capacity Percentage:		Load Weight ÷ Crane Boom Capacity)
Maximum Rope Capacity Percentage:	(Gross	Load Weight ÷ Rope Capacity)

Crane Capacity Percentage Chart for Crane #2

Load Locations	Required (yes or No)	Radius	Boom Angle	Boom Length	Boom Gross Cap. (BC)	Main Boom Capacity % (GL / BC)	Rope Gross Cap. (RC)	Rope Capacity % (GL / RC)
Initial Location								
1st Intermediate Location	YesNo							
2nd Intermediate Location	YesNo							
3rd Intermediate Location	YesNo							
Final Placement Location								
Gross Load Weight (GL):		Ma	aximum Pe	rcentages:			_	

Tailing Load Operation

If a tailing operation is required, then complete the following Crane Load Summary Chart.

Complete the following crane load summary chart for the tailing crane (Crane #2) to determine the percentages of gross capacity throughout the tailing operation.

Crane Load Summary Chart for Tailing Crane (Crane #2)

Tailing Crans		Moment Positions				
	Tailing Crane	Α	В	С	D	E
1	Moment					
2	Rigging					
3	Attachments					
4	Gross Load Weight					
5	Radius					
6	Crane Capacity					
7	% of Gross Capacity					

Formula for computing the moments during tailing for the tailing crane is **(D2 / TD) X weight = moment** for the tailing crane Distance from Lift lug to C.G. (center of gravity) = D1 Distance from Tail lug to C.G (center of gravity) = D2 D1 plus D2 = TD (total distance)

<u>OMMENTS</u>		
DDDOVAL		
PROVAL		
rt B "Critical Lift Plan" is revi	ewed and agreed to by th	
		Date
Tampa Electric Representative:		
	Print Name	Reviewer Signature
Primary Contractor:	Print Name	Approver Signature
Sub-Contractor:		
	Print Name	Approver Signature
Crane Competent Person:	Print Name	Approver Signature
	FIIIIL IVAIII C	Approver Signature
Rigging Competent Person:	Print Name	Approver Signature
Other:		