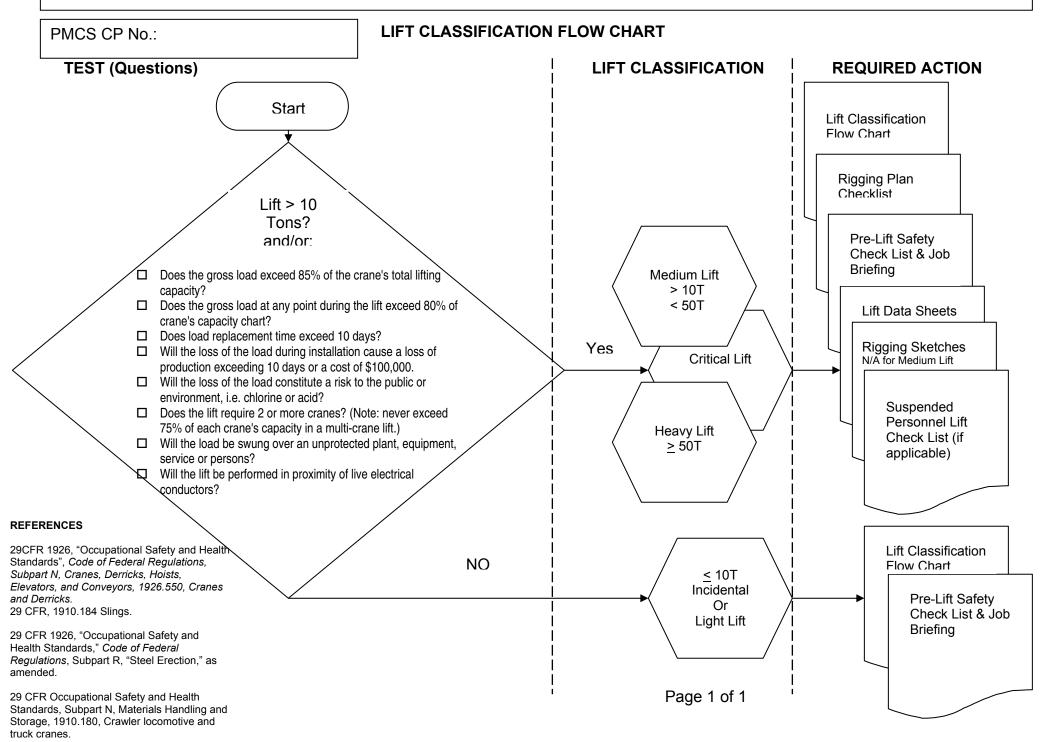
INSTRUCTIONS: Ask yourself the questions in decision block; Check off questions that apply; follow the Yes or No; circle the Yes or No and initial; Fill out the required forms listed under Required Action and provide required data to PMCS 7 Calendar days prior to lift. Company Name: ______ Print: _____ Date: _____ Date: _____ Date: ______ Date: _______ Date: ______ Date: _______ Date: _______ Date: ______ Date: _______ Date: _______ Date: ______ Date: _______ Date: ________ Date: _______ Date: ________ Date: ________ Date: _______ Date: ________ Date: ___________ Date: _________ Date: _________ Date: ________ Date: ___________DAte: ________DAte: ________DAte: ___________DAte: _________DAte: ________DAte: ___________DAte: _____



Pre-Lift Safety Checklist (Required for Incidental/Light, Medium, Critical & Heavy Lifts)				
			Page 1 of 2	
Project		Inspection	Date	
Crane Make	Model	Serial No		
Crane Manufacturer				
Equipment No	Hours	Crane Cap	acity	
Lift Date	Lift Weight	Lift Dimens	sions x x	
Weather Conditions				
Pre-Lift Verifications				
			making the lift. Otright.	
Verify that you satisfy all items in this adhere to all precautions and instructi				
document verification.				
1. Verify acceptability of lines and fa		• _	Change and Diagle	
Load LinesVerify acceptability of boom mem	Boom Lines		Sheaves and Blocks	
Correct Alignment		ective Members 🗌 E	Boom Pins/Keepers in Place	
3. Verify acceptability of machinery				
			Vinch Drums and Gears	
Brakes Crane Tracks/Truck Mountin	g 🗌 Safety Dogs		Controls Cab	
4. Verify acceptability of rigging acce				
Size	Capacity		Condition	
5. Verify acceptability of the followin			Lead Line Devices	
 Boom Length Crawlers/Outriggers Fully Ex 	rtended (as reg'd)	H	Load Line Reeving Crane Level	
6. Verify acceptability of ground con				
Ground can Take Crane Loa	ding		No Muddy/Uneven Terrain	
Fill (if any) Compacted		(verify number size)		
 Verify overhead power line cleara Verify crane operator qualification 				
9. Verify the lifting path is free of obs				
10. Use tag lines				
11. Position a signal person in clear v	iew of the crane operato	or OR establish radio cor	mmunication	

Pr	Pre-Lift Safety Checklist (Required for Incidental/Light, Medium, Critical & Heavy Lifts)		
12.		form a preliminary lift by slowly raising and ipment AND suspension of the load 🗌	lowering the load a few inches and checking the function of all
13.	Ver	ify the rigging scheme agrees with the app	roved rigging diagrams
		Yes 🗌 No If NO,	, explain on page 2
14.	Ver	ify the following weights and look for discre	epancies:
	Α.	Home office engineering calculated 🗌	
	В.	Rigging department calculated 🗌	
	C.	Field Engineer calculated 🗌	
	D.	Vendor calculated	
	E.	Scale or load cell weight 🗌	
15.		en the erection weight is within 5% of the c roved load cell to protect against overloadi	rane chart capacity, either weigh the load on scales or with an ing the crane and rigging attachments
16.		pect and verify the acceptability of the entire prior to making the lift	e crane assembly, auxiliary equipment, engineering data and
			Page 2 of 2
17.	Ver	ify current crane, hook, wire rope, sling and	d rigging hardware inspections completed.
		Yes 🗌 No	
A	dditio	nal Comments:	
Rig	ging	Engineer	Date
Hoi	sting	and Rigging Superintendent	Date

(Required for Medium, Critical & Heavy Lifts)

	ect Name: Date:		
Prep	arer:		
Rig	ging Plan Initial Considerations	Yes	N/A
1	Address soil conditions and site terrain for lifting equipment and to ensure stability along the haul path and at location of the lift.		
2	Consider weather conditions, for extreme conditions added precautions may be required (i.e. extreme cold, heat, rain, wind, etc)		
3	Research underground utilities along the haul path or at the lift location to avoid damage to existing utilities and to ensure adequate ground support.		
4	Verify the location of overhead power lines to ensure required clearances are maintained during both heavy haul and lifting operations.		
5	Check lift equipment and rigging hardware requirements to ensure equipment is available.		
6	Ensure access of haul and lift equipment into and out of the lift area is adequate. Assembly and disassembly of cranes/equipment should also be considered.		
7	Verify whether or not escorts are required to ensure safe movement of the load.		
8	Consider the need for a contingency plan based on a list of typical risk scenarios.		
Rig	ging Plan Preparation Minimum Requirements		
1	Review Vendor Drawings (equipment weight, location of center of gravity, recommended of specified lifting points, and special handling requirements).		
2	A list of the crane or hoisting equipment to be used in the work operation.		
3	A sketch showing the position and travel path of haul equipment, hoisting equipment, lift crane, trailing crane, initial location of the item to be lifted, and the final "set" position of the lifted item.		
4	A layout of the work area, including the locations of all obstacles and potential interferences.		
5	Haul and lift path minimum clearances, turning radius, and clearance requirements from existing facilities, utilities and overhead power lines.		
6	Definition of the item to be lifted/hauled including verified weight and authorized attachment of lift points.		
7	Equipment manufacturer drawings showing component weight, shipping skid weight, designated rigging attachment points, and center of gravity should be attached to the rigging plan.		
8	Actual shipping weight tickets should be attached to the rigging plan (if available)		
9	Definition of special soil preparation and crane mat requirements (if any)		
10	A sketch showing the locations of underground utilities that could affect the haul route and/or rigging work operation of that require special clearances or cribbing to perform the work.		
11	Rigging equipment to be used for the rigging operation, including slings, spreader beams, shackles, hooks and other components in the load chain.		
12	Calculations used to determine the forces applied to each rigging component must be provided for all heavy lifts. Standard rigging reference charts may be used to determine sized and type of the components required.		
13	Load capacity charts and notes for cranes or other equipment used to perform the lift. These shall be posted in the crane and reference in the rigging plan.		
14	A description of the communication method to be used by equipment operators and rigging crews during completion of the lift.		
15	Special considerations, such as the effects of wind on the ability of crews to safely complete the lift.		
16	Any special precautions that the work crew must be aware of prior to making the lift (e.g. removal of temporary shipping skids prior to lifting).		

LIFT DATA SHEET -- Single Crane Pick and Set

Project:	Originator	Date
Job No.:	Checker	Date
	Revision	Date
Day Load Description:		

Pay Load Description:					
Length:	Height:	Width/Diameter:	Weight:	LBS.	
Pay Load Wei	ight includes all applical	ole internals, trays, insulation, fire	proofing, etc., based on attache	d calculations	

5, U ays, i ihh I, II =h ıy, Reference Drawings:

Crane 1 Configuration	
Crane Type:	
Boom Type:	
Boom Length:	
Тір Туре:	
CWT's (Main):	
Superlift CWT's:	
Block Size:	
Line Size:	
Parts of Line:	
Parts/Maximum :	
Jib Type:	
Jib Length:	
Jib Offset:	
•	
% Pay Load Weight to Crane 1	%

Crane 1 Fixed Weights (Pounds) Crane Items

Cialle I likeu welgins (Founds)				
Crane Items			Weight	
Main Load	Block			
Wire Rope	- Load Line	in Falls		
Jib Block				
Aux. Boom	Sheaves (deduct)		
Jib (deduct)				
	Rigging			
Item	Size	Load Rate		
Spreader				
Slings				
Shackles				
Rigging B.O.M.				
Total Fixed	l Weight Cra	ane 1		

Crane 1 Lift Weight Summary (Pounds)

Total Fixed Weight	
Portion of Pay Load Weight	
Total Lifted Load	

Pick/Carry Capacity Crane 1

Total Pay Load Wt. X % Crane 1

Actual Pick Radius (Feet)	
Chart Radius (Feet)	
Chart Capacity (Pounds)	
Percentage Capacity	

Set Capacity Crane 1

Actual Set Radius (Feet)	
Chart Radius (Feet)	
Chart Capacity (Pounds)	
Percentage Capacity	

Calculated Pay Load Weight

Description	Quantity	Calculation Extensions	Weight
Pay load/Equipment/Vessel			
Internal Components (i.e.trays)			
Insulation			
Fireproofing			
Ladders & Platforms			
Pipe Downcomers			
Other Equipment attached			
Fixtures			
Fluids			
Total Estimated Pay Load Weigh	t		

Project: Job No.:					Che	inator cker [ision			Date Date Date	
Pay Load	Description	1								
Length:		Height:		Width/Dian	neter	:		Weight:		LBS
Chart Cap	pacity (Poun	ds)				Chart Capa	acity (Poun	ids)		
Percenta	ge Capacity					Percentag	e Capacity			
Calculat	ed Pay Loa	d Weight								
	Description		Quantity		Cal	culation Ex	tensions		Weight	
Pay load/	/Equipment/\								Ŭ	
	Components (
Insulation		(,		İ						
Fireproofi										
	& Platforms									
Pipe Dow				1						1
	uipment atta	ched								
Fixtures										
Fluids										1
	imated Pay I	oad Weigh	nt	<u></u>						
Rigging Item	Bill of Mate Product D		Size	Rating	Qty.	Units	Length	Wt./Unit	Weight	
Total We	eight:			<u></u>	1			<u> </u>		
		···· / A + + ?	Drawiss	an Olas fait	1	and an all				
	it Information n Clearance				ir re(uirea)				
	n Clearance		m to Lifte	a Piece of	Spr			Allowable		
Ground	Bearing Pre	ssure:				Actual:		Allowable:		
Special	Instructions	or Restric	tions for C	crane, Rigg	ging	, Lift, etc.:				

LIFT DATA SHEET -- Two Crane Pick and Set

NOTE: If two crane lift not applicable, draw a single diagonal line across two crane lift data pages and sign the last

Project:	Originator	Date
Job No.:	Checker	Date
	Revision	Date

Pay Load De	escription:			
Length:	Height:	Width/Diameter:	Weight :	LBS.
				1 1 1

Pay Load Weight includes all applicable internals, trays, insulation, fireproofing, etc., based on attached calculations Reference Drawings:

Crane 1 Configuration

Crane Type:
Boom Type:
Boom Length:
Tip Type:
CWT's (Main):
Superlift CWT's:
Block Size:
Line Size:
Parts of Line:
Parts/Maximum:
Jib Type:
Jib Length:
Jib Offset:

Crane 1 Fixed Weights (Pounds)

	Weight		
Main Load			
Wire Rope	- Load Line	e in Falls	
Jib Block			
Aux. Boom	Sheaves (deduct)	
Jib (deduct	i)		
	Rigging		
Item	Size	Load Rate	
Spreader			
Slings			
Shackles			
Rigging B.O.M			
Total Fixed			

% Pay Load Weight to Crane 1

%

Total Pay Load Wt. X % Crane 1

Crane 1 Lift Weight Summary (Pounds)

Total Fixed Weight	
Portion of Pay Load Weight	
Total Lifted Load	

Pick/Carry Capacity Crane 1

Actual Pick Radius (Feet)	
Chart Radius (Feet)	
Chart Capacity (Pounds)	
Percentage Capacity	

Crane 2 Configuration

Crane Type:
Boom Type:
Boom Length:
Тір Туре:
CWT's (Main):
Superlift CWT's:
Block Size:
Line Size:
Parts of Line:
Parts/Maximum:
Jib Type:
Jib Length:
Jib Offset:

Crane 2 Fixed Weight (Pounds)

	Crane Item	S	Weight
Main Load	Block		
Wire Rope	- Load Line	in Falls	
Jib Block			
Aux. Boom	Sheaves (deduct)	
Jib (deduct)			
Rigging			
Item	Size	Load Rate	
Spreader			
Slings			
Shackles			
Rigging B.O.M			
Total Fixed	Weight Cra	ane 2	

% Pay Load Weight to Crane 2

%

Total Pay Load Wt. X % Crane 2

Crane 2 Lift Weight Summary (Pounds)

Total Fixed Weight	
Portion of Pay Load Weight	
Total Lifted Load	

Pick/Carry Capacity Crane 2

Actual Pick Radius (Feet)	
Chart Radius (Feet)	
Chart Capacity (Pounds)	
Percentage Capacity	

LIFT DATA SHEET -- Two Crane Pick and Set

Project:		Originator	Date	
Job No.:		Checker	Date	
		Revision	Date	
Pay Load Des	cription:			
Length:	Height:	Width/Diameter:	Weight :	LBS.
Set Capacity	Crane 1	Set Ca	apacity Crane 2	
Actual Set Ra	dius (Feet)	Actual	Set Radius (Feet)	
Chart Radius	(Feet)	Chart	Radius (Feet)	
Chart Capacit	y (Pounds)	Chart	Capacity (Pounds)	
Percentage C	apacity	Percer	ntage Capacity	

Calculated Pay Load Weight

Description	Quantity	Calculation Extensions	Weight
Pay load/Equipment/Vessel			
Internal Components (i.e.trays)			
Insulation			
Fireproofing			
Ladders & Platforms			
Pipe Downcomers			
Other Equipment attached			
Fixtures			
Fluids			
Total Estimated Pay Load Weight			

Rigging Bill of Material's - Crane 1

ltem	Product Description	Size	Rating	Qty.	Units	Length	Wt./Unit	Weight
otal We	iaht:					-	•	

Rigging Bill of Material's - Crane 2

ltem	Product Description	Size	Rating	Qty.	Units	Length	Wt./Unit	Weight
otal We	ight:							

LIFT DATA SHEET -- Two Crane Pick and Set

Project: Job No.:				Origi Chec	inator	Date Date				
000 110		Revision					Date			
Pay Load	Description									
Length:		Height:	V	Width/Diameter:		We	eight :		BS.	
	n Clearance									
			om to Lifte	d Piece or Sp						
Ground	Bearing Pre	ssure:			Actual:		Allowable:			
Orrestat		a u Da atula		Dissis	1:64 - 44 - 4					
Special	Instructions	or Restric	ctions for C	rane, Rigging	j, Liπ, etc.:					
NOTE:					apply to your organization.					
	Have the p	erson who	is responsi	ble for the func	tions listed b	below sign	the appropr	iate blocks		
CONTRA										
CONTRA	CTOR APPI	ROVALS (AS Applica	DIE):						
Manage	r.						(Heavy & C	Critical Lifts	N	
wanagei	•						(Teavy & C)	
Hoisting	and Riggin	g Superin	tendent:				(Medium, H	-leavy & Cri	tical Lifts)	
								_		
	pport Techi									
Operatio	ons Manage	r:		. <u></u>			(Medium, H	Heavy & Cri	tical Lifts)	
Field Operations General										
Superint	endent:			,,	1 1		(Heavy & C	Critical Lifts)	
O a utiti a d	Dianis - 5			ļ			(Heerer 9, C	vition 1 :#-		
Certified	Rigging Er	igineer:			1		(neavy & C	Critical Lifts)	
Project/	- Functional M	lanager					(Critical Lif	te)		
		anayer.						,		
				1						