NCS Form 029

CRITICAL LIFT PERMIT

SECTION I - APPROVALS AND DOCUMENTATION

A. Identification:

Job Number: _____ Location: _____

Lift Identification Names: _____

Date of Lift: _____ Time: _____

Description of Lift: _____

_____

B. Approvals (Signatures Required):

Site Manager: _____ Date: _____
(If Over 50 Ton)

Project Manager: _____ Date: _____
(If Over 50 Ton)

Const. Manager: _____ Date: _____

Rigging Supervisor: _____ Date: _____

Operator: _____ Date: _____

Engineering: _____ Date: _____
(If Engineering Designs are Used)

C. Attachments:

1. Operator Certifications.
2. Capacity Certificates and Inspection Reports for all lifting equipment.
3. Inspection Reports for all Rigging Equipment.
4. Insurance Certificates
5. Rigging Diagram.
6. Free Body Diagram.

Tailing Crane Configuration

1. Type of Crane _____
2. Rated Capacity _____ tons
3. Lifting Arrangement
   a. Max. Radius During Lift _____ ft.
   b. Length of Boom _____ ft.
   c. Angle of Boom at Pick_____ degrees
   d. Angle of Boom at Set _____ degrees
   e. Rated Capacity Under Most Severe Conditions
      i. Over Rear _____ lbs.
      ii. Over Front _____ lbs.
      iii. Over Side _____ lbs.

f. Rated Capacity for lift _____ lbs.

4. Jib
   a. Is the Jib to be used? Yes ( ) No( )
   b. Length of Jib _____ feet
   c. Jib Angle _____ degrees
   d. Rated Jib Capacity _____ lbs.

5. Cable
   a. Number of Parts _____
   b. Size of Cable _____ inch
   c. Maximum Capacity _____ lbs.

D. Percent of Cranes Capacity

$$\frac{\text{Total Weight}}{\text{Rated Capacity}} \times 100 = \_\_\_\_\_\%$$

E. Sizing of Slings

1. Sling Selection
   a. Type of Arrangement _____
   b. Number of Slings on Hook _____
   c. Sling Size _____ inch
   d. Sling Length _____ ft.
   e. Rated Capacity _____ lbs.

SECTION II – PRE-LIFT PLANNING

A. Pre-Lift Checklist:

		(Initials) YES	NO
1.	Has an inventory of equipment been done?	____	____
2.	Have weather conditions been considered?	____	____
3.	Have the general safety precautions been reviewed?	____	____
4.	Have the electrical safety procedures been reviewed?	____	____
5.	Have the safe rigging practices been implemented?	____	____
6.	Have the safety precautions for lifting in tight quarters and confined spaces been reviewed?	____	____
7.	Has a method of attachment and handling been determined?	____	____
8.	Are all lifting lugs engineered to specifications?	____	____
9.	Has the matting been inspected and approved?	____	____
10.	Has the stability of the ground been assured?	____	____
11.	Is a tag line going to be used?	____	____
12.	Have disconnecting/connecting means been developed?	____	____
13.	Has the orientation of equipment been confirmed?	____	____
14.	Is survey equipment required?	____	____
15.	Is a pre-lift meeting planned?	____	____
16.	Is the total weight below 95% of capacity?	____	____
17.	Are all required approvals signed?	____	____

SECTION III - LOAD AND CAPACITY

A. Weight of Equipment - Live Load

1.	Equipment Condition	New( )Used ( )
2.	Weight of Equipment Empty	_____lbs.
3.	Weight of Attachments	
	a. Platforms and Ladders	_____lbs.
	b. Piping and Accessories	_____lbs.
	c. Liquid Inside	_____lbs.
	d. Dirt and Debris	_____lbs.
	e. Internal Trays of Liners	_____lbs.
4.	Total Weight of Equipment	_____lbs.

B. Total Load

Erection Crane

1.	Percent of Equipment Weight	_____%
2.	Amount of Equipment Weight	_____lbs.
3.	Weight of Headache Ball	_____lbs.
4.	Weight of Block	_____lbs.
5.	Weight of Lift Bar	_____lbs.
6.	Weight of Slings and Shackles	_____lbs.
7.	Weight of Jib – Erected	_____lbs.
	Stored	_____lbs.
8.	Weight of Jib Headache Ball	_____lbs.
9.	Weight of Cable (Load Fall)	_____lbs.
10.	Auxiliary Boom Head	_____lbs.
11.	(Other) _____	_____lbs.
	TOTAL WEIGHT	_____LBS.

Trailing Crane

1.	Percent of. Equipment Weight	_____%
2.	Amount of Equipment Weight	_____lbs.
3.	Weight of Headache Ball	_____lbs.
4.	Weight of Block	_____lbs.
5.	Weight of Lift Bar	_____lbs.
6.	Weight of Slings and Shackles	_____lbs.
7.	Weight of Jib - Erected	_____lbs.
	Stored	_____lbs.
8.	Weight of Jib Headache Ball	_____lbs.
9.	Weight of Cable (Load Fall)	_____lbs.
10.	Auxiliary Boom Head	_____lbs.
11.	(Other) _____	_____lbs.
	TOTAL WEIGHT	_____LBS.

C. Capacities of the Crane

Erection Crane Configuration

1. Type of Crane _____
2. Rated Capacity _____ tons
3. Lifting Arrangement
   a. Max. Radius During Lift _____ft.
   b. Length of Boom _____ft.
   c. Angle of Boom at Pick _____degrees
   d. Angle of Boom at Set _____degrees
   e. Rated Capacity Under Most Severe Conditions
      1. Over Rear _____lbs.
      2. Over Front _____lbs.
      3. Over Side _____lbs.
   f. Rated Capacity for lift _____lbs.
4. Jib
   a. Is the Jib to be used Yes( ) No( )
   b. Length of Jib _____ft.
   c. Jib Angle _____degrees
   d. Rated Jib Capacity _____lbs.
5. Cable
   a. Number of Parts _____
   b. Size of Cable _____inch.
   c. Maximum Capacity _____lbs.

D. Percent of Cranes Capacity

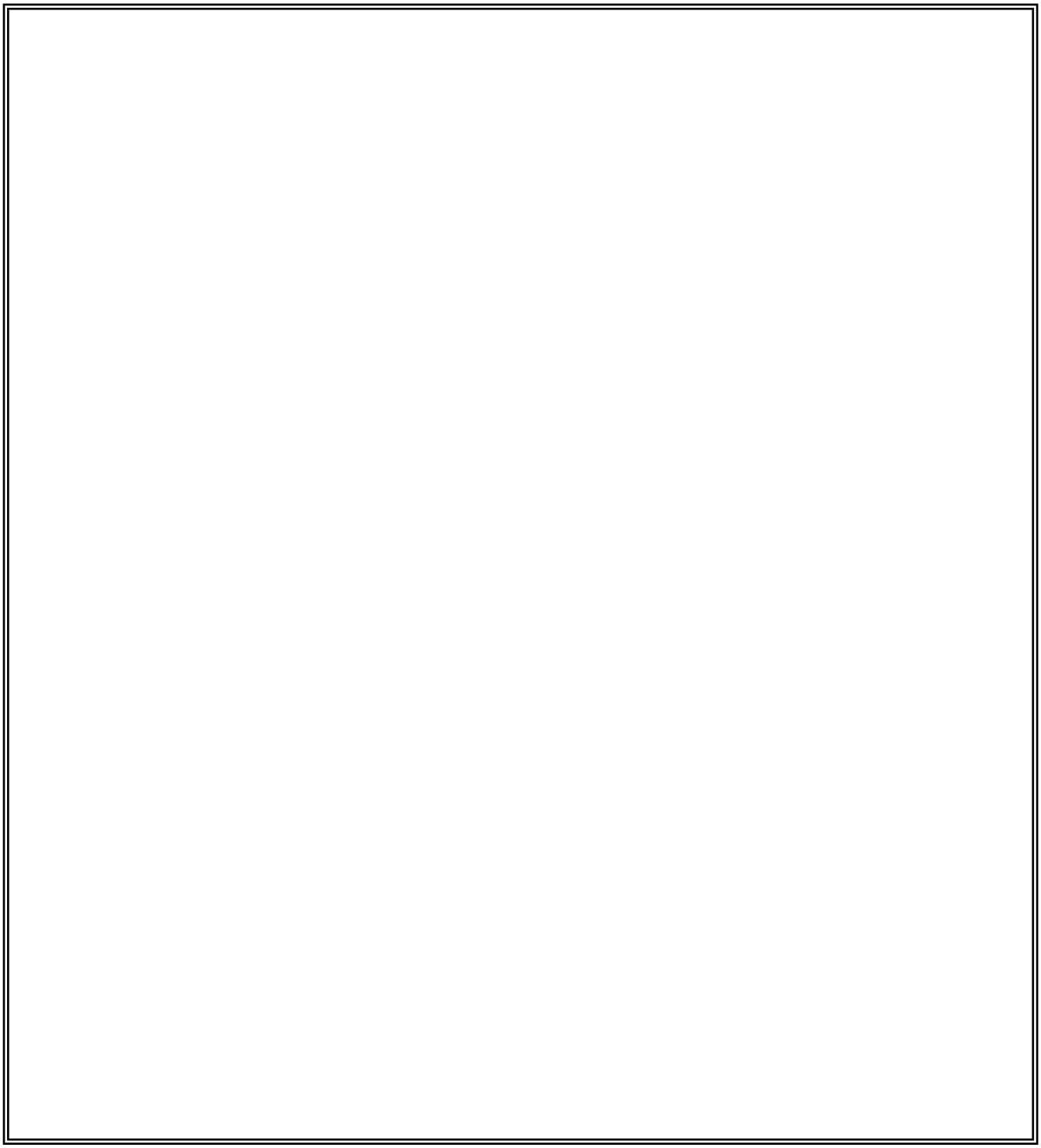
$$\frac{\text{Total Weight}}{\text{Rated Capacity}} \times 100 = \_\_\_\_\_\%$$

E. Sizing of slings

1. Sling Selection
   a. Type of Arrangement _____
   b. Number of Slings on Hook _____
   c. Sling Size _____inch
   d. Sling Length _____ft.
   e. Rated Capacity _____lbs.

FREE BODY DIAGRAM

Draw the Free Body Diagram for the load in the space provided below.



RIGGING DIAGRAM

Draw the Rigging Diagram for the load in the space provided below.