

Form 16-3
CRITICAL LIFT PLAN

For use of this form, see EM 385-1-1, Section 16. Proponent is Crane HHWG.

Date:	Prepared By:
Location:	USACE District:

A "critical lift" is defined as any non-routine crane lift requiring detailed planning and additional or unusual safety precautions. Critical lifts include: lifts made where the load weight is greater than 75% of the rated capacity of the crane; lifts which require load to be lifted, swung or placed out of the operator's view ; lifts made with more than one crane; lifts involving non-routine/technically difficult rigging arrangement; hoisting personnel with a crane or derrick; or any lift which the crane operator believes should be critical.

A. TOTAL LOAD	
1. Load Weight	lbs
2. Wt. of Aux. Block	lbs
3. Wt. of Main Block	lbs
4. Wt. of Lifting Beam	lbs
5. Wt. of Sling/Shackles	lbs
6. Wt. of Jib/Ext. (erected/stowed)	lbs
7. Wt. of Hoist Rope	lbs
8. Other:	lbs
TOTAL WEIGHT	

Note: Source of load weight (Drawings, Calcs, etc.) must be attached on Page 2.

E. CRANE PLACEMENT <i>(Mobile Cranes Only)</i>	
1. Maximum Bearing Pressure _____	PSF
<i>Note: Bearing Pressure Calculations must be attached on Page 3.</i>	
2. Ground Conditions Suitable for Load? _____	YES / NO
<i>Note: Ground Condition Calculations must be attached on Page 3.</i>	
3. High Voltage or Electrical Hazards? _____	YES / NO
<i>Note: If Electrical Hazards are present they must be shown on Page 4.</i>	
4. Obstructions to Lift or Swing? _____	YES / NO
<i>Note: If Obstructions are present they must be shown on Page 4.</i>	
5. Travel with Load Required? _____	YES / NO
6. Other? _____	

B. CRANE	
1. Type of Crane <u>Mobile Hydraulic Truck</u>	
2. Maximum Crane Capacity _____	lbs.
3. Radius (Maximum) _____	ft.
4. Radius (Minimum) _____	ft.
5. Boom Length (Maximum) _____	ft.
6. Boom Length (Minimum) _____	ft.
7. Crane Capacity (Max Radius) _____	lbs.
8. Crane Capacity (Min Radius) _____	lbs.
9. Boom Angle (Maximum) _____	deg.
10. Boom Angle (Minimum) _____	deg.
11. Gross Load of Crane _____	lbs.
12. Lift is _____ % of the Crane's rated capacity	
13. If Jib/Ext. is to be used:	
Length _____	ft.
Offset _____	ft.
14. Rated Capacity of Jib/Ext. _____	lbs

F. OPERATOR QUALIFICATIONS	
1. Certified Operator? _____	YES / NO
2. Option? _____	
3. Certified for Type, Class & Capacity? _____	YES / NO
4. Designated in writing by employer: _____	YES / NO

G. PRE-LIFT CHECKLIST	(YES)	N/A	(NO)
1. Crane Inspected			
2. Rigging Inspected			
3. Crane Set-up			
4. Overhead Hazard Check			
5. Swing Check			
6. Counterweight Check			
7. Operator Qualifications			
8. Signal Person Qualifications			
9. Rigger Qualifications			
10. Load Chart in Crane			
11. Load Test			
12. Tag Lines			
13. Wind Conditions			
14. Traffic Hazard Check			
15. Site Control			
16. Signatures			

C. HOIST ROPE			
	<i>Main</i>	<i>Aux 1</i>	<i>Aux 2</i>
1. # of Parts			
2. Rope Diameter			
3. Capacity			

D. RIGGING	
1. Hitch Type(s) _____	
2. No. of Slings: _____	Size: _____
3. Sling Type: _____	
4. Sling Assembly Capacity: _____	lbs.
5. Shackle Size(s): _____	
6. Shackle Rated Capacity(s) _____	lbs.

H. SIGNATURES	
1. Crane Operator	
2. Rigger	
3. Signal Person	
4. Lift Supervisor	
5. Other	
6. Other	

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LOAD CALCULATIONS

Show here or attach calculations, drawings, etc.

A large grid area for calculations and drawings, consisting of approximately 30 columns and 40 rows of small squares.

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BEARING PRESSURES & GROUND CONDITIONS

Show here or attach calculations, drawings, etc.

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LOAD CHART

Show here or attach load chart

A large grid area for drawing or attaching a load chart. The grid consists of 20 columns and 30 rows of small squares, providing a space for technical drawings or data tables.

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OPERATOR, RIGGER, SIGNAL PERSON QUALIFICATIONS

Show here or attach operator qualifications

A large grid area for providing operator qualifications. The grid consists of approximately 30 columns and 30 rows of small squares, providing a space for handwritten or typed text.

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SITE PLAN

Show here or attach site plan and sequencing

A large grid area for drawing the site plan and sequencing. The grid consists of 20 columns and 30 rows of small squares, providing a space for technical drawings or diagrams.