

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	_____ lbs

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	Main	Aux 1	Aux 2
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 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 20 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.