

FORM 16-3

Critical Lift Plan

U.S. Army Corps of Engineers CRITICAL LIFT PLAN For use of this form, see EM 385-1-1, Section 16. Proponent agency is Crane HHWG.																																																																																			
Date:		Prepared By:																																																																																	
Location:		USACE District:																																																																																	
A "critical lift" can be 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 the load to be lifted, swung or placed out of the operator's view (except Change 6 exemption); lifts made with more than one crane; lifts involving non-routine or technically difficult rigging arrangement; hoisting personnel with a																																																																																			
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		E. CRANE PLACEMENT (Mobile Cranes Only) 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 emp. _____																																																																																	
C. HOIST ROPE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">1. # of Parts</td> <td style="width:25%;"><u>Main</u></td> <td style="width:25%;"><u>Aux 1</u></td> <td style="width:25%;"><u>Aux 2</u></td> </tr> <tr> <td>2. Rope Diamter</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3. Capacity</td> <td></td> <td></td> <td></td> </tr> </table>		1. # of Parts	<u>Main</u>	<u>Aux 1</u>	<u>Aux 2</u>	2. Rope Diamter				3. Capacity				G. PRE-LIFT CHECKLIST <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">(YES)</th> <th style="text-align: center;">N/A</th> <th style="text-align: center;">(NO)</th> </tr> </thead> <tbody> <tr><td>1. Crane Inspected</td><td></td><td></td><td></td></tr> <tr><td>2. Rigging Inspected</td><td></td><td></td><td></td></tr> <tr><td>3. Crane Set-up</td><td></td><td></td><td></td></tr> <tr><td>4. Overhead Hazard Check</td><td></td><td></td><td></td></tr> <tr><td>5. Swing Check</td><td></td><td></td><td></td></tr> <tr><td>6. Counterweight Check</td><td></td><td></td><td></td></tr> <tr><td>7. Operator Qualifications</td><td></td><td></td><td></td></tr> <tr><td>8. Signal Person Qualifications</td><td></td><td></td><td></td></tr> <tr><td>9. Rigger Qualifications</td><td></td><td></td><td></td></tr> <tr><td>10. Load Chart in Crane</td><td></td><td></td><td></td></tr> <tr><td>11. Load Test</td><td></td><td></td><td></td></tr> <tr><td>12. Tag Lines</td><td></td><td></td><td></td></tr> <tr><td>13. Wind Conditions</td><td></td><td></td><td></td></tr> <tr><td>14. Traffic Hazard Check</td><td></td><td></td><td></td></tr> <tr><td>15. Site Control</td><td></td><td></td><td></td></tr> <tr><td>16. Signatures</td><td></td><td></td><td></td></tr> </tbody> </table>			(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			
1. # of Parts	<u>Main</u>	<u>Aux 1</u>	<u>Aux 2</u>																																																																																
2. Rope Diamter																																																																																			
3. Capacity																																																																																			
	(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																																																																																			
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 _____																																																																																	

EM 385-1-1
30 Nov 14

U.S. Army Corps of Engineers

CRITICAL LIFT PLAN

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

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.

U.S. Army Corps of Engineers

CRITICAL LIFT PLAN

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

BEARING PRESSURES & GROUND CONDITIONS

Show here or attach calculations, drawings, etc.

A large grid area for calculations and drawings, consisting of a 30x30 grid of small squares. The grid is empty and occupies the majority of the page's content area.

U.S. Army Corps of Engineers
CRITICAL LIFT PLAN

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

OPERATOR, RIGGER, SINGAL PERSON QUALIFICATIONS

Show here or attach operator qualifications

A large grid area for entering operator qualifications. The grid consists of approximately 30 columns and 40 rows of small squares, providing a structured space for handwritten or typed information.

EM 385-1-1
30 Nov 14

U.S. Army Corps of Engineers
CRITICAL LIFT PLAN

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

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 30 columns and 30 rows of small squares, providing a space for technical drawings and diagrams.