

Critical Lift Planning Worksheet

Location: Airport Police Facility Date of Lift: _____

Load Description: _____

Qualified Person-In-Charge: _____

Competent Person-In-Charge: _____

Charge: _____

Qualified Signal Person: _____

A. DEFINITION OF A CRITICAL LIFT

N/A Load exceeds 75% of load chart for crane or derrick

N/A Two or more cranes/booms required

N/A Special hoisting/rigging equipment will be utilized

N/A Other - Specify: _____

B. LOAD

| | | | |
|------------------------------|----------------------------------------------|---------------|-------------|
| 1. | Load Condition | New: <u>X</u> | Used: _____ |
| 2. | Gross Vehicle Weight | <u>60,053</u> | lbs. |
| 3. | Weight of Contents | N/A | lbs. |
| 4. | Weight of Auxiliary Block | N/A | lbs. |
| 5. | Weight of Main Load | <u>3,000</u> | lbs. |
| 6. | Weight of Lifting Beam | N/A | lbs. |
| 7. | Weight of Sling / Shackles | <u>73</u> | lbs. |
| 8. | Weight of Jib / Extension (Erected / Stowed) | N/A | lbs. |
| 9. | Weight of Hoist Hook | <u>240</u> | lbs. |
| 10. | Weight of Excess Load Material | N/A | lbs. |
| 11. | Other: | | lbs. |
| Total Weight of all Combined | | <u>63,293</u> | lbs. |

Source of Load Weight Information: (Drawings, Calculations, etc.)

C. CRANE

| | | | |
|----|-------------------------------------------------------------------------------|-------------------|------|
| 1. | Type of Crane | <u>T340-1 XL</u> | |
| 2. | Maximum Crane Capacity | <u>80,000 lbs</u> | |
| 3. | Radius at Pick-Up | <u>50</u> | ft. |
| | Radius at Swing | N/A | ft. |
| | Radius at Set-Down | N/A | ft. |
| 4. | Boom Length | <u>105</u> | ft. |
| 5. | Crane Capacity at Pick-Up Radius | <u>9,400</u> | lbs. |
| | Crane Capacity at Swing Radius | N/A | lbs. |
| | Crane Capacity at Set-Down Radius | N/A | lbs. |
| 6. | Boom Angle at Pick-Up Point | <u>59.7</u> | deg. |
| | Boom Angle at Set-Down Point | N/A | deg. |
| 7. | Gross Capacity of Crane at Longest Radius and Lowest Boom Angle for this Lift | N/A | lbs. |
| 8. | Gross Load of Crane is | <u>3,240</u> | lbs. |
| 9. | Lift is <u>34%</u> Of the Crane's Rated Capacity | | |

D. CONSIDERATIONS

- If Lift Exceeds 75% of Crane's Capacity, Attach Additional Special Instructions/Restrictions.
- Wind limitations for lift? ☒ Yes ☐ No
- What is the speed capacity of the crane at max windspeed? (20MPH): 13 mph

Note, $V_{max} = \frac{W_{max} \sqrt{1.9 \times \text{gross load}}}{\text{Max Capacity}}$

E. SIGNATURES / COMMENTS

Comments: _____

Signature _____ Date _____

Signature _____ Date _____

Signature _____ Date _____

Signature _____ Date _____