

**CERTIFICATION OF WORK**  
(To be completed by the Contractor and saved in the Contractor's CMMS)

FACID/Building: **PA166** \_\_\_\_\_ Date of Visit: **June 17,2019** \_\_\_\_\_

Contractor Personnel on Site:

1. **Ray Modolo** \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**Work Performed:**

**Preventive Maintenance** - Services Completed (Annual, Quarterly, Monthly, equipment identification, etc.)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**Inspection, Testing, and Certification**

1. **WO #9079 Asset # 6927**
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**Other Recurring Services**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**Service Calls** – Service Call Number and Description

1. \_\_\_\_\_
2. \_\_\_\_\_

**Over and Above Repair Work** – Order Number and Description of Work Completed

**ATTACHMENT J-0200000-05  
FORMS**

## **CERTIFICATION OF WORK**

To be signed by the Contractor:

Print Name: Technicians Name Ray Modolo Date: 6/28/19

Signed: Signature on attached Inspection Report

To be signed by Facility Manager:

By signing the Certification of Work, the said government representative signature does not constitute acceptance of any work performed by the contractor, it only acknowledges that the contractor was on-site during the identified timeline:

Print Name/Rank: \_\_\_\_\_ Date: \_\_\_\_\_

Signed: **Signature on attached Inspection Report**

E-Mail:

# QUOTATION



Quote # 1-155ZAAXA  
 Version 1  
 Quote Date:  
 Jun 18, 2019

## Customer Information

|                   |  |                    |   |
|-------------------|--|--------------------|---|
| Customer          | CMI Management Inc / US Army Reserve         |                    |   |
| Location          | 99 Soldiers Lane<br>Coraopolis               |                    |   |
| Customer Contact  | Randy Baker<br><br>randy.a.baker.civ@mail.mi | Konecranes Contact | Jared Bliss<br><br>jared.bliss@konecranes.com |
| Offer Valid Until | Jul 18, 2019                                 |                    |   |

## Assets

6927

Single girder EOT - 1 trolley wire rope hoist, PA166-02

|                   |   |                 |               |
|-------------------|---|-----------------|---------------|
| Business Location | US Army Reserve Center - Coraopolis<br>99 Soldiers Ln<br>Coraopolis | Service Request | 1-89442444800 |
| Contact           | Bernie Koblinsky<br>703-738-5303<br>bernie.koblinsky@cmimgmt.com    | Inspection Date | Jun 17, 2019  |
|                   |   | Technician      | Ray Modolo    |

| Risk Code      | Safety Risk         | Comments  | USD           |
|----------------|---------------------|---|---------------|
| Description    | 1-72928787247       | Power supply requires ground conductor.                                       | 3,932.32      |
| Fault          | Runway power supply |   |               |
| Recommendation | Other fault         | Provide (2) service technicians to supply and install ground bar required per |               |
|                | Install Product     | NEC/OSHA.   |               |
|                |                     |   | 6927 3,932.32 |

CMI Management Inc / US Army Reserve

Name: \_\_\_\_\_

Date: \_\_\_\_\_

This quotation is subject to and incorporates as if fully rewritten herein Konecranes' Standard Terms and Conditions of Sale (Service) (latest revision), a copy of which is attached hereto or upon request of Customer.

For each Asset listed above, please indicate your acceptance of the corresponding quotation by taking any of the following actions: (a) placing your signature in the signature block immediately below the Asset indicated; (b) issuing a verbal or written purchase order, work order, or other similar order for the goods and/or services contemplated herein; or (c) giving verbal or written authorization to Konecranes to proceed with the performance of the services and/or delivery of the goods contemplated herein.

# QUOTATION



Quote # 1-155ZAAXA  
 Version 1  
 Quote Date:  
 Jun 18, 2019

|                             |          |
|-----------------------------|----------|
| Currency                    | USD      |
| Total for all assets        | 3,932.32 |
| Travel and Equipment Rental | 528.00   |
|                             | 4,460.32 |

## Comments

|                  |   |
|------------------|---|
| Travel           | Travel, shipping & handling is included in quote.   |
| Equipment Rental | If quote is partially awarded, travel times are subject to change; fault lines under \$500 do not include travel time. Konecranes to provide necessary manlift unless otherwise advised by the customer; customer will be charged cost of lift + 20% per day.<br>Quote is based upon work being performed during normal Konecranes service hours, M-F, 7am - 4pm. |

This quotation is subject to and incorporates as if fully rewritten herein Konecranes' Standard Terms and Conditions of Sale (Service) (latest revision), a copy of which is attached hereto or upon request of Customer.

For each Asset listed above, please indicate your acceptance of the corresponding quotation by taking any of the following actions: (a) placing your signature in the signature block immediately below the Asset indicated; (b) issuing a verbal or written purchase order, work order, or other similar order for the goods and/or services contemplated herein; or (c) giving verbal or written authorization to Konecranes to proceed with the performance of the services and/or delivery of the goods contemplated herein.

# MAINMAN ASSESSMENT REPORT

KONECRANES

Lifting Businesses™

Report created: Jun 18, 2019, 2:52:18 AM

## Customer and Service Information

|                          |  |                           |   |
|--------------------------|--|---------------------------|---|
| <b>Customer</b>          | CMI Management Inc / US Army Reserve                             |                           |   |
| <b>Business Location</b> | US Army Reserve Center, Coraopolis                               |                           |   |
| <b>Address</b>           | 99 Soldiers Ln, Coraopolis                                       |                           |   |
| <b>Agreement</b>         | U240-US Army Reserve-PA166-02                                    |                           |   |
| <b>Service Request</b>   | 1-89442444800  |                           |   |
| <b>Description</b>       | PIT - June 2019 Mainman Assessment with Routine Maintenance      |                           |   |
| <b>PO Number</b>         | 9079   |                           |   |
| <b>Billing Type</b>      | Fixed  |                           |   |
| <b>Customer Contact</b>  | Bernie Koblinsky<br>703-738-5303<br>bernie.koblinsky@cmimgmt.com | <b>Konecranes Contact</b> | Thomas Yakich<br>+41297759170-000-0000<br>tom.yakich@konecranes.com |

## Summary

|                                |   |
|--------------------------------|---|
| <b>Service Request Status:</b> | Completed                               |
| <b>Service Products:</b>       | Routine Maintenance, MAINMAN Assessment |
| <b>Assets Serviced:</b>        | 1                                       |

## Findings and Actions

## Findings and Actions by Asset (Top 5)



**Note!** The condition of certain components on serviced/inspected cranes cannot be directly verified through visual inspection without further disassembly and/or the use of other inspection methods. These advanced services are excluded from the scope of this service. Inspection frequency for these components should follow OEM recommendations and/or governing regulations. These components are listed separately and identified as follows:

Undetermined Conditions (Unable to Inspect - Not in Scope)

## Findings and Actions (1 Assets)

6927

Single girder EOT - 1 trolley wire rope hoist

|               |          |            |          |
|---------------|----------|------------|----------|
| Manufacturer  | DEMAG    | Span       | 22ft     |
| Serial Number | 00398    | Lift       | 18ft     |
| Criticality   | N/A      | Volt/Ph/Hz | 480-3-60 |
| Site Location | PA166-02 | Duty Class | 2m       |
| Capacity/SWL  | 7.5 Ton  |            |          |

|                         |  |
|-------------------------|--|
| <b>Service Products</b> | Routine Maintenance & MAINMAN Assessment |
|-------------------------|--|

|  | ✓ / ! | Comment |
|--|-------|---------|
|--|-------|---------|

Maintenance log book

✓ **Markings** – Visual assessment✓ **Documentation** – Visual assessment

Bridge

Structure

Main girder

- ✓ **Main girder beam and markings** – Visual assessment
- ✓ **Main girder connection** – Visual assessment
- ✓ **Trolley rail** – Visual assessment
- ✓ **Trolley rail end stops** – Visual assessment

End truck

- ✓ **End truck structure** – Visual assessment
- ✓ **Crane driving wheel and bearings** – Visual assessment, Lubricate, Operational ass...
- ✓ **Crane idle wheel and bearings** – Visual assessment, Lubricate, Operational assess...
- ✓ **Crane bumpers** – Visual assessment
- ✓ **Rail sweeps** – Visual assessment

End truck

- ✓ **End truck structure** – Visual assessment
- ✓ **Crane driving wheel and bearings** – Visual assessment, Lubricate, Operational ass...
- ✓ **Crane idle wheel and bearings** – Visual assessment, Lubricate, Operational assess...
- ✓ **Crane bumpers** – Visual assessment
- ✓ **Rail sweeps** – Visual assessment

Crane travelling machinery

- ✓ **Travelling gear** – Visual assessment, Lubricate, Operational assessment
- ✓ **Travelling motor** – Visual assessment, Lubricate, Clean, Operational assessment
- ✓ **Travelling brake** – Visual assessment, Adjust, Clean, Operational assessment
- ✓ **Protection guards and covers** – Visual assessment

Crane travelling machinery

- ✓ **Travelling gear** – Visual assessment, Lubricate, Operational assessment
- ✓ **Travelling motor** – Visual assessment, Lubricate, Clean, Operational assessment
- ✓ **Travelling brake** – Visual assessment, Adjust, Clean, Operational assessment
- ✓ **Protection guards and covers** – Visual assessment

## Trolley

### Structure

- ✓ **Trolley intermediate structure** – Visual assessment

#### Trolley idle side

- ✓ **Trolley idle side structure** – Visual assessment
- ✓ **Trolley idle wheel and bearings** – Visual assessment, Lubricate, Operational assess...
- ✓ **Trolley idle wheel and bearings** – Visual assessment, Lubricate, Operational assess...
- ✓ **Trolley bumpers** – Visual assessment
- ✓ **Rail sweeps** – Visual assessment

#### Trolley driving side

- ✓ **Trolley driving side structure** – Visual assessment
- ✓ **Trolley driving wheel and bearings** – Visual assessment, Lubricate, Operational as...
- ✓ **Trolley driving wheel and bearings** – Visual assessment, Lubricate, Operational as...
- ✓ **Open gear transmission** – Visual assessment, Lubricate, Operational assessment
- ✓ **Trolley bumpers** – Visual assessment
- ✓ **Rail sweeps** – Visual assessment

### Trolley traversing machinery

- ✓ **Traversing gear** – Visual assessment, Lubricate, Operational assessment
- ✓ **Traversing coupling** – Visual assessment, Lubricate, Operational assessment
- ✓ **Guide roller** – Visual assessment, Lubricate, Operational assessment
- ✓ **Traversing motor** – Visual assessment, Lubricate, Clean, Operational assessment
- ✓ **Traversing brake** – Visual assessment, Adjust, Clean, Operational assessment
- ✓ **Traversing encoder** – Visual assessment, Operational assessment
- ✓ **Protection guards and covers** – Visual assessment

### Hoisting machinery Info

### Notification

|                        |                           |
|------------------------|---------------------------|
| <b>Date Reported:</b>  | Jun 17, 2019              |
| <b>Technician:</b>     | Ray Modolo                |
| <b>Task Type:</b>      | Load Test/Overload        |
| <b>Fault Code:</b>     | Acceptable                |
| <b>Risk:</b>           | <b>No direct risk</b>     |
| <b>Recommendation:</b> | No Action                 |
| <b>Comment:</b>        | Load test done and passed |

- ✓ **Hoisting gear** – Visual assessment, Lubricate, Operational assessment
- ✓ **Hoisting motor** – Visual assessment, Lubricate, Clean, Operational assessment
- ✓ **Hoisting brake - holding** – Visual assessment, Adjust, Clean, Operational assessment
- ✓ **Rope drum** – Visual assessment, Operational assessment
- ✓ **Rope guide** – Visual assessment, Lubricate, Operational assessment

- ✓ **Rope clamps** – Visual assessment
- ✓ **Rope drum bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Rope anchorage** – Visual assessment
- ✓ **Hoisting wire rope** – Visual assessment, Lubricate, Operational assessment
- ✓ **Upper block** – Visual assessment
  - ✓ **Upper block structure** – Visual assessment
  - ✓ **Rope sheave and bearings** – Visual assessment, Lubricate, Operational assessment

## Hook block

- ✓ **Hook block structure and markings** – Visual assessment
- ✓ **Rope sheave and bearings** – Visual assessment, Lubricate, Operational assessment
- ✓ **Crosshead** – Visual assessment, Operational assessment
- ✓ **Thrust ball bearing** – Lubricate, Operational assessment
- ✓ **Hook forging** – Visual assessment
- ✓ **Latch** – Visual assessment, Operational assessment

## Electrics

### Power supply

- ✓ **Runway mainline disconnect** – Visual assessment, Operational assessment

#### ! **Runway power supply**

Quote

**Date Reported:** Jun 17, 2019  
**Technician:** Ray Modolo  
**Task Type:** Visual assessment  
**Fault Code:** Other fault  
**Risk:** Safety Risk  
**Recommendation:** Install Product  
**Comment:** Power supply requires ground conductor.

- ✓ **Tow arm** – Visual assessment
- ✓ **Collector assembly** – Visual assessment, Operational assessment
- ✓ **Conductor** – Visual assessment
- ✓ **Crane main switch** – Visual assessment, Operational assessment
- ✓ **Trolley power supply** – Visual assessment, Operational assessment
  - ✓ **Tow arm** – Visual assessment
  - ✓ **Festoon cable** – Visual assessment
  - ✓ **Cable trolley** – Visual assessment, Operational assessment
- ✓ **Pendant power supply** – Visual assessment, Operational assessment
  - ✓ **Connection box** – Visual assessment
  - ✓ **Festoon cable** – Visual assessment

### Control system

- ✓ **Bridge cubicle** – Visual assessment
- ✓ **General wiring and conduits** – Visual assessment
- ✓ **Operation control** – Visual assessment, Operational assessment
- ✓ **Hoist cubicle** – Visual assessment

- ✓ General wiring and conduits – Visual assessment
- ✓ Operation control – Visual assessment, Operational assessment

! Pushbutton pendant

Date Reported: Jun 17, 2019  
 Technician: Ray Modolo  
 Task Type: Visual assessment  
 Fault Code: Electrical fault  
 Risk: **Production Risk**  
 Recommendation: Repair

Quote

Comment:  
 Hoist hot light is not operating, bulb is good, looking light socket is bad. rubber cover on cable is broken

✓ Pushbutton pendant cable – Visual assessment

✓ Hoisting limit switches – Visual assessment, Adjust, Operational assessment

✓ Overload protector – Visual assessment, Lubricate, Clean, Operational assessment

✓ Warning devices – Operational assessment

✓ Operation control – Visual assessment, Operational assessment

✓ Indicating devices – Visual assessment, Operational assessment

Runway

Beam

✓ End stops – Visual assessment

Beam

✓ End stops – Visual assessment



Jun 17, 2019 Tim Peters, Customer



Jun 17, 2019 Ray Modolo, Technician

Undetermined Conditions: Unable to Inspect - Not in Scope (1 Assets)

 6927

Single girder EOT - 1 trolley wire rope hoist

Jun 17, 2019

|   |                     |
|---|---------------------|
| <b>! Hoisting gear - internal</b>   | <b>Notification</b> |
| <b>Fault Code:</b> Not in Scope   |                     |
| <b>Risk:</b> <b>Undetermined Condition</b>  |                     |
| <b>Recommendation:</b> Disassemble/Inspect  |                     |
| <b>Comment:</b><br>Disassembly is required to inspect this component. Inspection frequency is as required by the OEM and/or governing regulations |                     |
| <b>! Hoisting coupling - internal</b>   | <b>Notification</b> |
| <b>Fault Code:</b> Not in Scope   |                     |
| <b>Risk:</b> <b>Undetermined Condition</b>  |                     |
| <b>Recommendation:</b> Disassemble/Inspect  |                     |
| <b>Comment:</b><br>Disassembly is required to inspect this component. Inspection frequency is as required by the OEM and/or governing regulations |                     |
| <b>! Hook forging - internal</b>  | <b>Notification</b> |
| <b>Fault Code:</b> Not in Scope   |                     |
| <b>Risk:</b> <b>Undetermined Condition</b>  |                     |
| <b>Recommendation:</b> Disassemble/Inspect  |                     |
| <b>Comment:</b><br>Disassembly is required to inspect this component. Inspection frequency is as required by the OEM and/or governing regulations |                     |
| <b>! Hook nut and locking parts</b>   | <b>Notification</b> |
| <b>Fault Code:</b> Not in Scope   |                     |
| <b>Risk:</b> <b>Undetermined Condition</b>  |                     |
| <b>Recommendation:</b> Disassemble/Inspect  |                     |
| <b>Comment:</b><br>Disassembly is required to inspect this component. Inspection frequency is as required by the OEM and/or governing regulations |                     |

Jun 17, 2019

## Component Condition

- ✓ Acceptable (No issues detected)
- ! Need Attention

## Findings and Actions

### **Safety Risk**    **WARNING**

Indicates an unsafe condition. Failure to remedy such condition before continued operation of the identified asset may result in personal injury, including death, or property damage.

### **Production Risk**

Indicates an inefficient condition. Failure to remedy such condition before continued operation of the identified asset may result in inefficient asset performance or an interruption in production.

### **Undetermined Condition**

Unable to Inspect - Not in Scope

Indicates that the component condition could not be directly verified through visual inspection without further disassembly and/or the use of other inspection methods.

These advanced services are generally excluded from the scope of typical compliance and preventive maintenance inspections. Consultation Services may be added to a Service Program or offered on a stand-alone basis to assess the condition of these components.

Inspection frequency for these components should follow OEM recommendations and/or governing regulations. If these are not readily available, Konecranes recommendations may be used.

If no records are available, disassembly/inspections of these components should be carried out without delay to determine their current condition and to establish a baseline for subsequent inspections.

### **Undetermined Condition**

Not able to Complete

Indicates that the component condition could not be directly verified through visual inspection as a result of asset configuration and/or obstruction. In this case, the visual inspection was part of the service scope but it was not completed.

### **Improvement Opportunity**

Indicates a potential opportunity to improve the safety, productivity, application or useful life of the asset.

### **Acceptable / Repaired Item**

Component condition is verified by Konecranes service technician. No actions required. If a component or other object has been repaired within the service visit, green color code is shown as well.

Repaired Items correspond to those repairs performed by, observed by or reported to the Konecranes Technician during the delivery of the referenced Service Request.

### **KONECRANES® STORE**

SPARE PARTS, ACCESSORIES AND SELECT  
PRE-CONFIGURED LIFTING EQUIPMENT  
[store.konecranes.com](http://store.konecranes.com)

### **ONLINE ANY TIME**

### **YOURKONECRANES**

CRANE MAINTENANCE INFORMATION  
AND REMOTE MONITORING DATA  
[your.konecranes.com](http://your.konecranes.com)