



## Inspection

Tidewater - Army Corps Reserve

49 Jetview Drive  
Chili, NY 14624

FolderID: 1249  
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### Bridge Crane

Completed by: Tyler Crandall on 05/29/2024

Location: Motorpool

Customer Number: 1

Status: In Service

Description: Motorpool Maintenance Shop

Runway Type:	Freestanding
Runway Power:	Electric
Runway Power Delivery:	Conductor Bar
Runway Length:	36 (FT)
Crane Capacity:	10 (TONS)
Crane Type:	SGTRDM (Single Girder, Top Running, Dual Motor)
Crane Serial Number:	F20006-15-0
Crane Manufacturer:	Robbins and Myers (R&M)
Crane Span:	92 (FT)
Crane Power:	480/3/60
Number of Hoists:	1
Controller Type:	Pendant
Controller Located On:	Crane
Hoist [1] Serial Number:	HMW29938
Hoist [1] Model Number:	SPACE MASTER SX
Hoist [1] Manufacturer:	Robbins and Myers (R&M)
Hoist [1] Capacity:	10 (TONS)
Hoist [1] Type:	Wire Rope
Hoist [1] Lift:	22 (FT)
Hoist [1] Parts Chain/Wire Rope:	LEFT LAY 11MM PN# 52334432
Hoist [1] Load Brake:	Mechanical
Hoist [1] Mount:	Integrated
Hoist [1] Power:	460/3/60
Hoist [1] Control Speeds:	Two Speed
Trolley [1] Manufacturer:	Robbins and Myers (R&M)
Trolley [1] Capacity:	10 (TONS)
Trolley [1] Type:	Motor Driven

Priorities Found: 1 - Medium 43 - Good

### Support

1. Rails and Stops	Good
2. Conductors	Good
3. Main Disconnect Switch	Good
4. Suspension	Good
5. Structural Bracing	Good

### Crane

6. Capacity and Warning Signs	Good	P6
7. Pendant and/or Controller	Good	P7
8. Control Enclosure	Good	P8
9. Contactors and Wiring	Good	
10. Motors	Good	
11. Gear Cases	Good	

This inspection covers maintenance and operation only. Inspection is visual unless otherwise stated. Load brake checked during load test only.

12. Shafts and Couplings	Good
13. Brakes	Good
14. Covers and Guards	Good
15. Conductors and Collectors	Good
16. Manual Disconnect Switch	Good
17. Wheels and Bearings	Good
18. Bumpers and End Stops	Good
19. Girders and End Trucks	Good
20. Warning Devices	Good

 *Horn at start up plus movement stroke*

## Hoist [1]

21. Capacity Signs and Warning Tags	Good	P21
22. Control Enclosure	Good	
23. Contactors and Wiring	Good	
24. Limit Switches and Levers	Good	
25. Motors	Good	
26. Gear Cases	Good	
27. Shafts and Couplings	Good	
 <i>Motor shaft and motor coupling inspected 29june24. New coupler installed</i>		
28. Brakes	Production - Bad	P28
 <i>Brake pad currently measured at 10.9mm. brake minimum before replacement is 10.4mm. OEM recommends replacement at a minimum of 10.6mm.</i>		
29. Covers and Guards	Good	
30. Main Disconnect Switch	Good	
31. Wire Rope	Good	
32. Sheaves	Good	
33. Load Hooks, Blocks and Latches	Good	
34. Wire Rope Drum	Good	

## Trolley [1]

35. Control Enclosure	Good
36. Contactors and Wiring	Good
37. Motors	Good
38. Gear Cases	Good
39. Shafts and Couplings	Good
40. Brakes	Good
41. Covers and Guards	Good
42. Wheels and Bearings	Good
43. Bumpers and End Stops	Good
44. Trolley and Rails	Good

## General

45. Additional Comments

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P6.1



P7.2



P7.3



P8.4



P8.5



P21.6



P28.7: Primary hoist brake.  
Recommend replacement



P28.8: Secondary brake

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