



Inspection

Tidewater - Army Corps Reserve

49 Jetview Drive

Chili, NY 14624

FolderID: 1249

FormID: 20516472

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:	Intergrated
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	
■	<i>Horn at start up plus movement strobe</i>			
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