

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



GENERAL INFORMATION

Facility: Indiana University – Jacobs School of Music MAC	Date of Inspection: 8/15-19/2022
Location: 101 N Eagleson	Observer(s): Charlie DiGiorgio, Gwen Van Denburg, Bryce Carson, Sam Conan
Last Inspection Date & by Whom: 2018	Report Prepared By: Giancarlo Acciardi
Current Use: University Events, Live Concerts, Ballet & Opera	

Indiana University Jacobs School of Music MAC Theatre Equipment & Rigging

Description
Counterweight system <ul style="list-style-type: none">- 54 Manually Operated Double purchase line sets- 5 Motorized Counterweight Assist Motorized Light Bridge<ul style="list-style-type: none">- 1 with 2 counterweight arbors and positionable proscenium equipment- 1 header with 2 catwalks and sliding guide connections to the side forms (1 motor @ grid)- 2 motorized positionable forms (1 motor @ top of form each)- 4 with 1 counterweight arbor (Bridge #5 Red Tagged by others)
Cable Management <ul style="list-style-type: none">- 22 Motorized Gleeson Reels (48" Diameter)- 11 Wire Rope driven Gleeson Reels (48" Diameter)
7 Sound door assemblies <ul style="list-style-type: none">- 1 Line Shaft driven, counterweighted Sound Door (Upstage)- 6 Motor and drive chain, track guided doors with safety stop bumpers

Wenger Corp / J.R. Clancy Safety Inspection Criteria

Safety and operational efficiency are at the forefront of each facility inspection. Our inspectors are experienced and ETCP certified. The inspection is comprised of those systems and components as described in the report. This report is for the use of the **Indiana University Jacobs School of Music MAC** only, and not intended to be relied upon by any other third-party.

A visual inspection of the facilities theatre equipment and rigging system has been performed. Captured herein are the identified defects observed during the facility inspection, excluding those areas not exposed to view, concealed, or inaccessible. A glossary of terms listed in this report can be found at www.jrclancy.com/resources/glossary.

The inspection report is organized into sections that are grouped by the Equipment Systems, its Elements and Components. Observations made are then characterized using one of three conditions as described below. Included are any comments relating to important factors identified as problematic therefore needing action or immediate attention. In addition, noteworthy photographs (Photo) to help illustrate conditions observed and references to specific line sets (Line Set #) that are affected by a stated problem.

Good	Needs Attention	Immediate Attention
<i>The conditions observed are good and meet the current industry standard.</i>	<i>The conditions observed needs attention and/or are not meeting the current industry standards. Although not likely to cause injury, the equipment</i>	<i>The conditions observed required immediate attention, do not meet current industry standards, and is deemed unsafe and a hazard that is</i>

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



	<i>may negatively affect the operation and/or will eventually breakdown. Recommend conditions are corrected within 9 to 12 months.</i>	<i>likely to cause an accident or injure persons operating or near the equipment. Recommend conditions are corrected immediately.</i>
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Upon completion of the facility's Inspection, an Observation Summary and Recommendation is provided to aid in developing the best course of action to address critical condition observations. Our team is available to offer assistance to plan and prioritize any follow up work and to provide price quotes for repairs, system maintenance and training.

Key System Elements and Components

Stage:

Height of Steel: Grid: 110'10"	Dimensions:
Head Block: 83' Loft Block: 119'	Stage: 56'3"x87'10"w
	Positionable Proscenium: 38'9" to 6" h x 67' to 47'10"

Fire Curtain:

<input checked="" type="checkbox"/> Fire Curtain	Type: Water Deluge Curtain	Manufacturer: Unknown
Hoist: N/A	Voltage: N/A	Manufacturer: Enter Manufacturer

Counterweight and set components:

<input checked="" type="checkbox"/> Counterweight Rigging	# Line Sets: 54	Manufacturer: Tiffin	
<input type="checkbox"/> Single <input checked="" type="checkbox"/> Double	# Lift Lines: 6 & 8	Lift Line Spacing: 13'8" @ 1-2&7-8 : 12' @ 2-7	
Guide Type: Tee	Locking rails: 1	Set centers: 7.5" @Sets 1-29, 7" @Sets 30+	Loading Gallery? 1
Arbor size(s): 19'	Cwt Size(s): 6"x14"	Cable size: 1/4" 7x19 GAC	Handline Size: 7/8"
Head blocks – Upright or Underhung: 64 single, 2 double	Loft blocks – Upright or Underhung: 6 or 8 per set	Batten types / length: 2" DIM Schedule 40 @ 84'1" L	
Batten terminations: Swaged eye with copper oval - 1/4" proof coil chain - 1/4" Screw Pin Shackle		Headblock terminations: Swaged eye with copper oval and light duty thimble	
# Electrics: 5	Cable Management: Motorized and wire traction driven cable reels and multi-cable harness assembly. All cable reels are powered but unused and out of service.		

Hoists:

<input type="checkbox"/> Zero Fleet Hoist	# Units: Enter #	Manufacturer: Enter Manufacturer	Voltage:
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INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



<input checked="" type="checkbox"/> Line Shaft Hoist (Upstage Door)	# Units: 1	Manufacturer: Morse (Borg/Warner) Voltage:208/440
<input checked="" type="checkbox"/> Drum Hoist (Bull winch)	# Units: 1	Manufacturer: SEW/Euro Voltage:208/360
<input checked="" type="checkbox"/> Drum Hoist (Speaker Cluster)	# Units: 1	Manufacturer: Reliance Voltage:208
<input checked="" type="checkbox"/> Drum Hoist (Bull Winch)	# Units: 1	Manufacturer: Reliance Voltage:200
<input checked="" type="checkbox"/> CWT Assist (Light Bridges)	# Units: 5	Manufacturer: Stearns Elec Co. Voltage: 230/460

Orchestra Shells/Pit:

<input checked="" type="checkbox"/> Orchestra Shell	Type: Legacy?	Manufacturer: Wenger
<input checked="" type="checkbox"/> Orchestra Towers		
<input checked="" type="checkbox"/> Orchestra Lift	Type: Enter #	Manufacturer: Enter Manufacturer
<input checked="" type="checkbox"/> Pit Safety Net	Type: Enter #	Manufacturer: Enter Manufacturer

Other:

<input checked="" type="checkbox"/> Other: Paint Frame Assembly – CWA assembly – 6 lift lines, 5/16" 7x19 GAC, Swaged eye-Steel Oval-1/2" Screw Pin Shackle at frame connection and arbor connections – 12" underhung loft blocks on double c channel frame anchored to concrete encased beams. - Upstage sound door hung on 3/4" cables terminated with Open-Swaged Sockets connected to Pad Eyes - Light Bridge Terminations are Spelter Sockets terminated to 1/2" turnbuckles.
Describe Load In Conditions: Single Bay, raised, up slope loading dock with dock plate, through large rollup door to scenery storage bay at Upstage Left.

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



OBSERVATION DETAILS

Counterweight Rigging System and Components

1.	Arbor Guide System	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Tees	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Connecting welds to lock rail have failed. Deformed guide causes seizing in tension block Heavy corrosion on unprotected welds that connect guide wall to lock rail Tee Guide is bent/damaged Deformed guide track causes arbor to bind at top of travel	1 3 1 2 N/A	7, 9, 10, 14, 15 14, 15, 27 ALL 17, 18, 27, 39 12, 45
B	Wall Battens	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Knee Brace	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Arbor Stops	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Damaged from arbor down crash. Original bumper material was on arbors and has degraded beyond functionality.	4	51, 54
E	Fasteners	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Heavy corrosion on most connecting hardware throughout the system.	8, 12, 24	ALL
F	U-Clips	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bent clip Loose hardware Loose hardware connecting to Tee Guide	5 3 & 5 5	17, 18 14-15 27
G	Wire Arbor Guides	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
2.	Rope Lock	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Housing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Jaws	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Squealing parts, binds when attempting to close lock	N/A	3
C	Handle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Heavy corrosion inside body causes handle to seize, rope compression block is binding inside the housing.	6	7
D	Attachment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
E	Adjustment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
3.	Locking Rail	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Fasteners	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Anchor has pulled loose and will not set	7	16

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



						Heavy corrosion on anchor bolts	8	ALL
						Missing washer on floor anchor bolt	7	1, 9, 16, 20, 28, 30, 38, 39, 46, 54
B	Stanchions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Rail	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Index Light	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
4.	Tension Block	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Housing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Sheave	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Bearings/Shaft	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Guides/Shoes	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Damaged shoes restricting motion of or seizing the block	3	8, 14, 15, 35
5.	Hand Line	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Hand Line	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Too long, tension block is on the floor (adjust extension chain to pick up tension block)	9	33
6.	Counterweight Arbor	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Arbor Top	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Decayed remnants of original stop bumpers remain and collect dust/contaminants, shedding materials to other parts of the system.	N/A	ALL
B	Arbor Bottom	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Loose arbor rod nut (All others found were corrected)	10	42
C	Arbor Rods	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bent Arbor rod indicating deformation in the arbor of varying types.	11	13, 21, 22, 27-32, 35, 38, 39, 41, 45
D	Back Bone	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lateral deflection in backbone causing friction against the track guide wall	12	12, 16, 21, 22, 39
E	Spreader Plates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Misplaced spreader plates	N/A	ALL
						Insufficient amount of spreader plates in arbors	N/A	ALL
F	Locking Collars	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
G	Guides/Shoes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



7.	Counterweights	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Counterweight	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bricks stacked too close to an opening they can fall through.	25	Floor 4
8.	Head Block	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Mounting Assembly (clips and bolts)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Housing (side plates/base angles)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Sheaves (casting)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Bearing/Shaft	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
E	Alignment/Fleet Angle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
9.	Loft Block	Condition?				Comments	Photo	Line Set
		NA	Good	Needs Attention	Immediate Attention			
A	Mounting Assembly (clips and bolts)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Housing (side plates/base angles)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Sheave (casting)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Groove worn through in cast iron block	13	29, 30
						Treadwear cutting in idler	14	24, 33
						Treadwear cutting in block	14	9, 16, 23, 24, 27, 28, 31, 33, 37, 38
						Frozen bearings, idler no longer turns without additional friction/pressure	N/A	5, 7, 9-10, 13-17, 20-27, 31-34, 37-43, 46-47, 49-50
D	Bearing/Shaft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lubricant seeping out indicates drying bearings	15	ALL
						Dry bearing noise present throughout the system	N/A	ALL
							N/A	16, 18

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209






						Bearing or axle failure in block causing helical motion (wobbling) in the block and contact with the cheeks		
E	Alignment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fleet angle related wear damaging idler	16	16
						Misaligned block creating hard fleet angle for wire rope entering/exiting the block	17	5, 7-10, 13, 16-17, 19, 21, 31, 38, 41-42, 44, 49, 51, 54
10.	Wire Rope/Terminations	Condition?				Comments	Photo	Line set#
		NA	Good	Needs Attention	Immediate Attention			
A	Wire Rope	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Terminations							
	Head Block	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Batten	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Incomplete bridle construction	23	
	Clew	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Adjustment Devices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Alignment/Fleet Angle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lift lines climbing side of idler on Loft Blocks	21	7, 24, 33, 46, 52
						Mild Lift Line chafe on Junction Box above	N/A	38
						8 th Lift Line travels over spacer in idler generating chafe noises and slowly cutting the spacer sleeve/bolt.	22	7-10
E	Clamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
11.	Battens	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Battens	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unlevel batten on the drop-down	18	5
						Surface corrosion on batten	19	ALL
						Damaged extension	20	43
						Batten hangs up on electrical drop box when travelling in	N/A	10, 18-19, 38
B	Splices	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
12.	CWT Electrics	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	S.O. Power Cable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Connector Strip	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

INSPECTION REPORT






7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

C	Cable Management	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Safety Cables	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
13.	CWT Safety Information	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Capacity labels in place & match ID label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None		
B	Rigging Safety Sign installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None		
C	Maintenance Log Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Owner has Operation & Maintenance Manuals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Photo 1	
Photo 2	
Photo 3	







INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Photo 4		
Photo 5		
Photo 6		
Photo 7		
Photo 8		







INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Photo 9		
Photo 10		
Photo 11		
Photo 12 Note guide marks on track from shoe friction		
Photo 13		

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

<p>Photo 14</p>	 <p>Cutting in idlers</p>	 <p>Cutting in blocks</p>
<p>Photo 15</p>		
<p>Photo 16</p>		
<p>Photo 17</p>		
<p>Photo 18</p>		

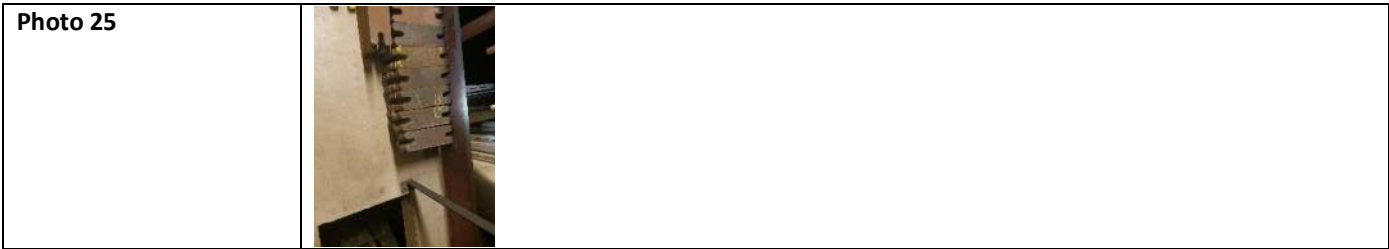
INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Photo 19		
Photo 20		
Photo 21		
Photo 22		
Photo 23		
Photo 24		

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



CWT Assist (Light Bridges & Paint Frame) Rigging System and Components

1.	CA Machine Covers and mounting	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
						LB = Lighting Bridge::PF = Paint Frame		
A	Covers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Hardware	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Welds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
2.	CA Machinery	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Motor Brake	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Secondary Brake	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Sprocket and Chain	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Drive shafts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Surface corrosion on shafts	1	ALL
						Aged lubricant extruded from sides piled up on pillow blocks	2	ALL
E	Oil (level, leaks, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Slow leak from compromised seals, current fluid levels seem ok	12	LB2-5
3.	CA Electrical	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Control enclosure covers in place	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Strain relief connections tight	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Power plugs twist locked into receptacles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Control plugs latched into receptacles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
E	Unused control plugs closed and latched	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
4.	CA Operation & Limit Switches	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Brackets & activation arms	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mechanical 'in' Limit sticks intermittently. Likely due to age of components or dust contamination.	N/A	LB4
B	Hard limits set & checked per comment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lower Limit was not readjusted after supplemental support steel for the upstage wagon was installed over the paint pit opening to the basement storage floor (lower approx. 12'6")	3	PF
						Limit switches are non-functional	N/A	PF

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



C	Dead wraps on drum	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traction drive		
D	Limit switch locknuts tight	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
E	Motor engagement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
F	Load brake engagement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
5.	CA Counterweight Arbor	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Arbor Top	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Arbor Bottom	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Arbor Rods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Back Bone	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
E	Spreader Plates	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
G	Locking Collars	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
H	Guides	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
6.	CA Head Block	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Mounting Assembly (clips and bolts)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Housing (side plates/base angles)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Sheaves (casting)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Visible treadwear cutting	13	ALL
D	Bearing/Shaft	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
E	Alignment/Fleet Angle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
7.	CA Loft Block	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Mounting Assembly (clips and bolts)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Housing (side plates/base angles)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Sheave (casting)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lift Lines piled up on one side of the multiline diverter and out of their grooves, lines chafe on each other and are abrading the cheek and spacer Visible treadwear cutting in blocks Heavy corrosion present	4 14 13 & 14	PF LB2-5 LB2-5
D	Bearing/Shaft	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
E	Alignment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cable harness block out of alignment	N/A	LB2-4

INSPECTION REPORT



7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

8.	CA Wire Rope/Term.	Condition?				Comments	Photo	Line set#
		NA	Good	Needs Attention	Immediate Attention			
A	Wire Rope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aged cable has substantial material stretch under dynamic tension from movement.	5	LB2-5
						Two Lift Lines make contact near center-right stage in the catwalk area.	15	LB1
B	Terminations							
	Arbor	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Batten	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Adjustment Devices	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Alignment/Fleet Angles	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
9.	CA Battens	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Battens	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Splices	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Threaded couplings on batten	6	LB2-5
10.	CA Electrics	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	SO Power Cable	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Aging steel cable supports	7	LB2-5
						Unrated wire rope clips	5 & 7	LB2-5
						Crowded fittings at connection point to bridge	8	LB2-5
B	Connector Strip	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Cable Management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Safety Cables	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
11.	CA Safety Information	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	All Emergency Stops Tested	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Capacity labels in place & match ID label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None		
C	Rigging Safety Sign installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None		
D	Timer is reset with light off	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If PowerAssist		
E	Owner has Operation & Maintenance Manuals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None		

INSPECTION REPORT






7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

12.	CA Other Components	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Header	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Header catches and lifts tab curtain track when going out.	9	LB1
B	Paint Frame Backbone	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Paint frame metal deformed from catch incident.	10	PF
C	Focus Track	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bolt threads do not penetrate ends of locknuts at Stage Left end of rail.	11	LB2
D	Light Bridge Hardware	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Heavy Corrosion on all non-resistant hardware materials	16	LB2-5
						No locknuts or lock washers on hardware connections throughout.	16	LB2-5
						Guide shoe material found on components below guide tracks, evidence of wear or misalignment	17	LB1
	Notes	<div>- Lift lines for Light Bridge #1 were replaced in 2010 after one experienced a tension failure</div> <div>- Light Bridge #5 has been removed from service by a previous inspection due component and weld failures</div>						

Photo 1		
Photo 2		







INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

<p>Photo 3</p> <p>Arbor position at frame maximum safe in position. Limit switches visible at top of photo.</p>	
<p>Photo 4</p>	
<p>Photo 5</p>	
<p>Photo 6</p>	
<p>Photo 7</p>	







INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Photo 8		
Photo 9		
Photo 10		
Photo 11		
Photo 12		

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Photo 13		
Photo 14		
Photo 15		
Photo 16		
Photo 17		

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



Line Shaft/Drum Hoist System and Components (Upstage sound door and speaker cluster)

1.	LS Machine Covers and mounting	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
						SD=Sound Door :: CL=Speaker Cluster		
A	Covers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Hardware	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Welds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
2.	LS Machinery	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Motor Brake	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Secondary Brake	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Sprocket and Chain	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Drive shafts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Moderate surface corrosion	5	SD
						Misaligned Pillow Block	N/A	SD
						Slow leak of separated fluids from pillow blocks onto grid	5	SD
F	Oil (level, leaks etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Slow leak from failed seal in gearbox	1	CL
3.	LS Electrical	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Control enclosure covers in place	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Strain relief connections tight	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Power plugs twist locked into receptacles	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Control plugs latched into receptacles	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
E	Unused control plugs closed and latched	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
4.	LS Operation & Limit Switches	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Brackets & activation arms	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Hard limits set & checked per comment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6" from first obstruction for Fixed Speed, 14" for Variable Speed		
C	Dead wraps on drum	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Limit switch locknuts tight	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
E	Motor engagement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

INSPECTION REPORT






7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



F	Load brake engagement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
5.	LS Wire Rope/Term.	Condition?				Comments	Photo	Line set#
		NA	Good	Needs Attention	Immediate Attention			
A	Wire Rope	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Terminations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Batten	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Drum	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Adjustment Devices	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Incorrectly installed wire rope clips on positioning wires	2	CL
D	Alignment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Strong fleet angle exiting downstage blocks	3	CL
6.	LS Battens	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Battens	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Splices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
7.	LS Electrics	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	SO Power Cable	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Connector Strip	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Cable Management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Safety Cables	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
8.	LS Safety Information	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	All Emergency Stops Tested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Capacity labels in place & match ID label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None		
C	Rigging Safety Sign installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None		
D	Timer is reset with light off	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Powerline		
E	Owner has Operation & Maintenance Manuals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None		
9.	LS Other Components	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention			
A	Sound door cap	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Screws backing out of header, some missing.	4	SD

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Photo 1		
Photo 2		
Photo 3		
Photo 4		
Photo 5		

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Smoke Hatch Elements

1.	SH Diverter Pullies	Condition?				Comments	Photo
		NA	Good	Needs Attention	Immediate Attention	Hydraulically Opened vents at top of gallery, control at Downstage Right corner.	
A	Mounting Assembly (clips and bolts)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
B	Housing (side plates/base angles)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
C	Sheave (casting)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
D	Bearing/Shaft	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
E	Alignment/Fleet Angle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	SH Wire Rope/Term.	Condition?				Comments	Photo
		NA	Good	Needs Attention	Immediate Attention		
A	Wire Rope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
B	Terminations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
C	Adjustment Devices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
E	Alignment/Fleet Angles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Release Mechanisms	Condition?				Comments	Photo
		NA	Good	Needs Attention	Immediate Attention		
A	Operating Winch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
B	Motor / Gearbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
C	Fusible Links	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
D	Electro-thermal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Other	Condition?				Comments	Photo
		NA	Good	Needs Attention	Immediate Attention		
A	Signage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
B	Type of Doors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Single or Double? SLATS	
C	Additional Acoustic Doors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do the doors open down? N/A	

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



Curtain and Track Elements




1.	Curtain	Condition?				Comments	Photo	Line Set#
		NA	Good	Needs Attention	Immediate Attention	All stage drapes upstage of the proscenium were removed from the system and stored in hampers for the inspection. Drapery downstage of the Proscenium was in good condition.		
A	Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Flame Retardants	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2008		
C	Traveler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Border	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
E	Leg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
F	Scrim	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
G	Valance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
F	Cyclorama	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
G	Blackout	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
2.	Track	Condition?				Comments	Photo	
		NA	Good	Needs Attention	Immediate Attention			
A	Track	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
B	Track Hardware	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
C	Attachments/Suspension	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
D	Curtain Machine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Orchestra Shell Elements

1.	Shell Ceilings	Condition?				Comments	Photo
		NA	Good	Needs Attention	Immediate Attention		
A	Ceiling Panel/Assembly Cloud	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Position holes for stay arms are worn and damaged, many do not function properly anymore.	1
B	Frame	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Curvature in the frame causes collisions with the next upstage batten in the gallery as the two pass each other (Sets 33&34) Damage to frame members in some spots from collisions or rough handling/age	N/A 4
C	Rigging Attachment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Open hook, no latching mechanism or safety.	2
2.	Tower Frame	Condition?				Comments	Photo
		NA	Good	Needs Attention	Immediate Attention		
A	Panel Attachment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
B	Frame	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
C	Tower Mover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Integrated Lighting	Condition?				Comments	Photo
		NA	Good	Needs Attention	Immediate Attention		
A	Tip Switches	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
B	Fixtures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
C	Distribution	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Signage	Condition?				Comments	Photo
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No safety signage.	

Photo 1	 
Photo 2	

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Photo 3 Aging face	
Photo 4	

Sound Door Elements

Stage Right Sound Door

- Door Controls Non Functional
- Scenery stored against and crowding the door (Photo 1)
- Abrasion marks on both sides of the door from contact while passing through wall slot (Photo 2)
- Motor inaccessible due to crowded scenery storage in upstage right shop
- Limit switch sensor functional

Right Storage (Room #124) Doors

- Door to Stage Right wing was undergoing maintenance during the rigging inspection
- Door to Rear Stage (room #130) has scenery towers crowding it and could not safely be moved (photo 3)
- Abrasion marks on door from contact while passing through the wall slot (photo 4)

Left Stage (Room #136) Doors

- Door to Room #140 key switch control wasn't tested due to key not being present




Stage Left Wing (Room #140)

- Door experienced a malfunction during test. Clutch pins to manual operation chain stuck and did not reengage after door was closed. Panel had to be reset at controls.

Photo 1	
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INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209

Note: Text in picture was for inspector's reference.	
Photo 2	
Photo 3	
Photo 4	

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



OBSERVATION SUMMARY AND RECOMMENDATIONS

Summary

The Counterweight System and its motorized components were most recently inspected in 2018. Few other inspections seem to have been conducted in the past 12 years (the date of the earliest record accessible to staff present at inspection). Multiple past reports have evaluated the condition of the equipment as having reached or **exceeded its useful life**, and the conclusions of this inspection concur with those findings. The #5 Light Bridge has been removed from service due to failing conditions in its rigging components. That decision to remove the Bridge from service is agreed with as well. These, numerous other deficiencies, and deteriorations in the condition of the rigging and mechanical components are all clear indicators of progressing decay and extreme wear. Such issues, repeated observations, the past tension failure of the lift line in the #1 Light Bridge, derelict S.O. cable and cord reels, and recurrent operational issues in the Sound Doors should be taken as clear indicators that these failures will continue to accumulate and likely accelerate no later than within the next 3-5 years.

There is an insufficiency of safety signage present for the system. Signs warning of cutting/crushing hazards on access catwalks to the #1 Light Bridge/Header, offstage sides of the forms, on the walks of the bridge itself, and around the sound doors and wagons are needed to inform of bodily hazards. Access restriction and/or zone control methods can be installed to restrict access to areas in observable to the operator during motion of the machinery, as the control station is a booth inside the Stage Left Torm. Electrical additions to the forms do not appear to have been accompanied by adjustments to the mechanical limits of these members to prevent crushing of the electrical cabling now spanning the aperture.

While not currently in such a state, any substantial accident or shock load (especially to the #2-5 light bridges) should be treated as having the potential to warrant additional emergency inspection and possibly create a state of Clear and Present Danger. Repositioning or reusing previously abandoned or less heavily worn components of the system should be considered insufficient to the need to replace the entire system as they are of the same age/manufacture and equally deserving of retirement. Excepting this is only (temporarily) the rope lock for the Act Curtain due to the extreme difficulty with which that component now functions and the importance of its duties.

The characteristics and deficiencies noted in this report may not be comprehensive. The MAC is a large space that had many conditions which commanded observation, investigation, and recording. Deficiencies that went unobserved or unrecorded due to this constraint may present themselves over time.

The manual counterweight system and motorized sets in commission are operable -though many with difficulty- and all should be used with care. Consideration should be given that their current condition will likely not safely tolerate maximum engineered loads.

Priority (H-M-L)	Item #	Recommendation including ANSI Standard to follow	By Whom (Staff or Rigging Contractor)
H	1	Download and review the current ANSI Standards pertaining to entertainment. They can be found here: http://tsp.esta.org/tsp/documents/published docs.php . They need to be made available to theatre staff to review and implement	Staff

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



H	2	Test the Fire Safety Curtain at least once every 90 days. It must be deployed twice. Once from each pull station, and once with the Smoke Vents closed, and then open, per ANSI E1.22 and NFPA 80.20 regulations. Document the results. Close the curtain when the stage is not in use as per code	Staff
H	3	Test the smoke vents with the Fire Safety Curtain at least every 90 days and document the results, as per ANSI E1.22 and NFPA 80.20 requirements	Staff
H	4	Have regular inspections performed per ANSI E1.47-2020 Frequency Of Inspections Chart	Staff
H	5	Replace all original components of Manually Operated Counterweight system. Recommend new counterweight rigging be equipped with chain compensators if possible due to the great height of the gallery.	Rigging Contractor
H	6	Perform regular maintenance on all Counterweight Assist and Line Shaft Hoists and components congruent to manufacturer's guidelines, clean and regrease all pillow blocks, drive chains, and bearings as recommended.	Staff/Rigging Contractor
H	7	Replace all aged and worn components of Counterweight Assist and Line Shaft Hoists such as cut and failing rigging blocks, fatigued wire ropes and unrated fittings, aged electrical components and limit mechanisms, repair/redo failing seals inside hoist motors and gearboxes.	Rigging Contractor
H	8	Replace aged sound shell ceilings.	Rigging Contractor
H	9	Clean and lubricate all mechanical Limit Switch activators for Counterweight Assist (Light Bridge) arbors.	Staff/Rigging Contractor
H	10	Install Warning Signage and clear demarcation for all Manual and Motorized Rigging indicating capacities, danger zones (example: the offstage space and catwalks of the movable forms), alerting of crushing or cutting hazards, and general safety surrounding moving or powered equipment congruent with guidelines in ANSI Z535.4	Staff
M	11	Update and consolidate Maintenance, Service, and Operational Logs for ease of reference, coordination, and presentation.	Staff
M	12	Replace damaged batten extension on Line Set #20	Staff
M	13	Complete installation of one unfinished bridle point at Stage Right.	Rigging Contractor
M	14	Reactivate and adjust mechanical limit activators for Paint Frame Hoist assembly.	Electrical Contractor
M	15	Replace malfunctioning Rope Lock on Main Curtain Line Set with an unused lock from elsewhere on the rail of satisfactory	Staff/Rigging Contractor

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



		condition and function. Clean thoroughly and lubricate moving parts if necessary, taking care not to transfer fluids to the Purchase Line.	
M	16	Correct position of Lift Lines for Paint Frame in Multiline Diverter block, then monitor for recurrence and possible cause.	Rigging Contractor/Staff
M	17	Install additional insertable spreader plates in arbors to allow conformity to current spacing standards.	Staff/Rigging Contractor
M	18	Redistribute counterweight bricks on Floor 4 to give a minimum clearance to access stair of 36".	Staff
M	19	Establish and record safety and watch protocols to ensure safe, well monitored movement and clearances of all components of the Light Bridges at all times when the set is in motion.	Staff
L	20	Correct the batten position on Line Set #5 to be level and even across its entire length.	Staff
L	21	Clean corrosion off of all pipe batten and coat with a rust neutralizing/inhibitive primer.	Staff
L	22	Retract Electrical drop boxes and store appropriately on grid or cord reels to remove fouling hazard for functional battens as they move through the gallery.	Staff
L	23	Add locknuts or split washers to non-locking hardware connections throughout Light Bridges.	Staff
L	24	Monitor material degradation of knife guides on the #1 Light Bridges, watching for buildup of brassy shavings on components below the guides. Note any increase or progression of buildup.	Staff/Rigging Inspector
L	25	Monitor contact points of Lift Line wires in the catwalk area below the walkable grid, between the blocks. Watch for material wear on the wire rope, shavings on the catwalk or on the wire rope itself. Note all damage to wire rope.	Staff/Rigging Inspector
		ANSI Code references: E1.4-1 2016: Ch3.2.2, 3.2.3, 3.4.4.4.2, 3.7.7.3, 3.9, 4.6.1, 6.1, 6.5, 6.7, 6.8.3, 6.9, 6.10, 6.11, A.3.9, A.6	

When requesting a repair quote, please specify the item numbers you would like quoted.

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



MAINTENANCE AND INSPECTION LOG

Use this log to keep track of required annual inspections and any service performed on your motorized rigging equipment. Keep this in a binder along with other service information such as inspection reports.

DATE	SET #	SERVICE PERFORMED	SERVICE PROVIDER	INITIALS
8/15-19/2022	ALL	Level 2 Rigging Inspection	Wenger Corp/JR Clancy	

INSPECTION REPORT

7041 INTERSTATE ISLAND ROAD, SYRACUSE, NY 13209



End of Report

Respectfully submitted,

GIANCARLO ACCIARDI

On behalf of Wenger Corporation/JR Clancy, Syracuse, NY

Service Contacts – Anthony, Andy, and Marilyn (service@jrclancy.com)