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## **Rigging Inspection Report**

**Facility:** Your High School Auditorium  
12345 High School Hwy.  
Hometown, NY

**Contact:** You

**Building Date:** 1972, as reported by Administration

**Flyrail/ Rig Type:** 10 manual winch linesets

**Flyrail Manufacturer:** Indeterminate

**Inspection/ Maintenance Records Reviewed:** None Found

**Inspection lines in bold indicate full system failure as a result of the inadequacy.**

Linesets are numbered from downstage (nearest proscenium wall) to upstage (stage rear wall)

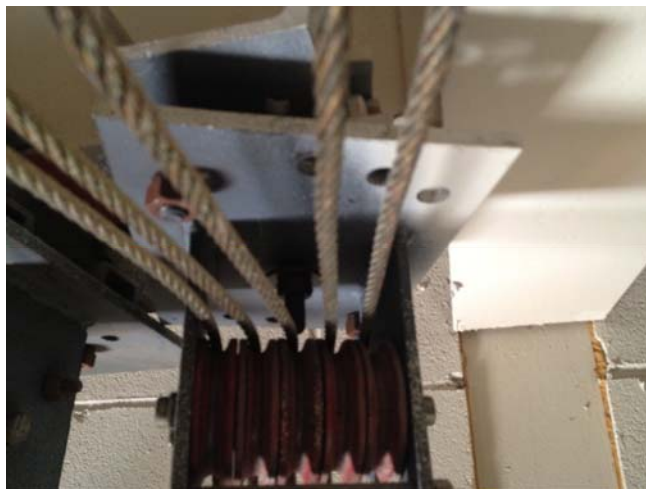
Ref_#	Description	Faulty Conditions Found	Pass/Fail	Recommendation
<b>1.</b>	<b>Winch Mounting Plate</b>	<b>Inspectors could not confirm proper attachment of mounting plate to wall</b>	<b>Fail</b>	<b>Replace and properly mount plate</b>
<b>1.</b>	<b>Winches (all)</b>	<b>Winches are not approved for this application.</b>	<b>Fail</b>	<b>Replace winches with approved equipment</b>
2.	Head Blocks	No rating could be discerned from these pieces	Fail	Replace with rated equipment
3.	Batten Attachments	No batten attachments passed inspection	Fail	Reattach with rated hardware and with approved methods
4.	Line Clews	Improper attachments at clews	Fail	Reattach clews with proper methods/ hardware
	Lineset #1	Cables rubbing at several points, incorrect toe angles at head block	Fail	Replace cables, adjust lineset as necessary to correct toe angles
	Lineset #2	Cables rubbing at several points, cables being diverted by steel sling	Fail	Replace cables, realign lineset as necessary
	Lineset #3	Cables rubbing at several points, cables being diverted by steel sling	Fail	Replace cables, realign lineset as necessary
	Lineset #4	Cables rubbing at several points, cables being diverted by steel sling	Fail	Replace cables, realign lineset as necessary
	Lineset #5	Frayed cables, cables twisted near arbor	Fail	Replace cables, realign lineset as necessary
	Lineset #6	Frayed cables, cables twisted near arbor, cable tension issues	Fail	Replace cables, realign lineset as necessary
	Lineset #7	Frayed cables, weight was redistributed to dead hang point	Fail	Replace cables, realign lineset as necessary
	Lineset #8	Cables rubbing, one cable replaced with lighter gauge cable. Incorrect toe angles at head block	Fail	Replace cables, realign lineset as necessary
	Lineset #9	Cables rubbing	Fail	Replace cables, realign lineset as necessary
	Lineset #10	Cables rubbing, cables to head block spun	Fail	Replace cables, realign lineset as necessary

Reference numbers indicate photo of faulty condition below:

**SET 1.**



**SET 2.**



Set 3.





Set 4.

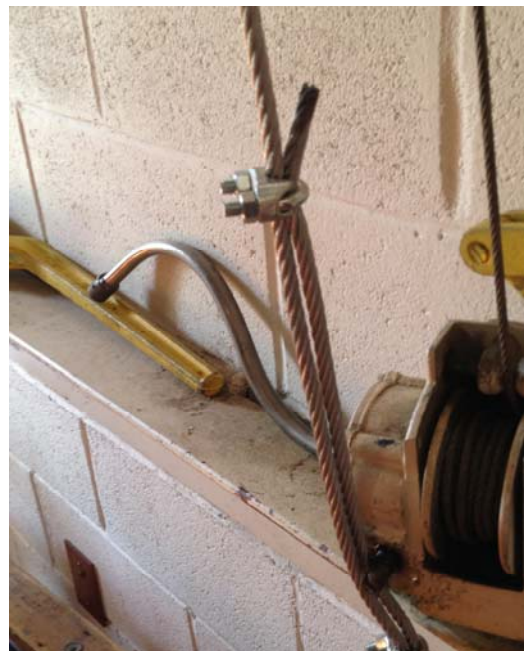
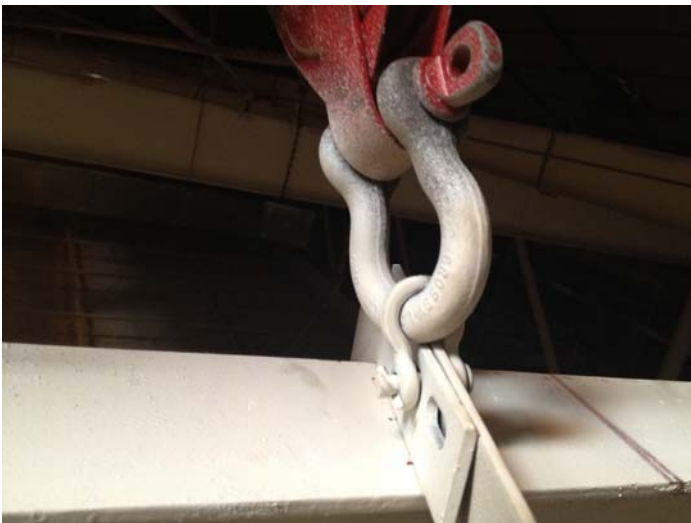


The following pictures highlight examples of lineset failures in individual linesets:

Unserviceable cables-



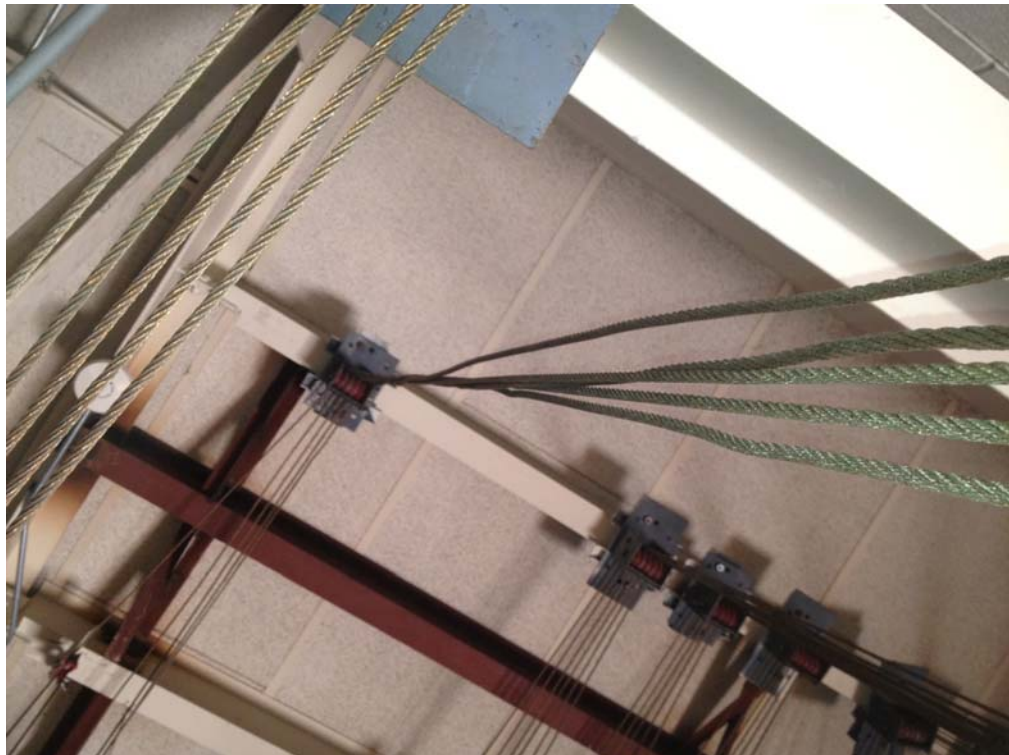
Improper attachment-



In several instances, cables are out-of-alignment at blocks, causing wear and eventual failure



Cables twisted, and lacking correct tension





In the next two examples, “baskets” have been fashioned out of cable, causing significant rub, wear and eventually, failure





There are several inadequacies that apply to the system as a whole. These inadequacies are significant enough that the entire system is unusable. All weight should be removed from the winch-operated flyrail battens until replacement/ upgrade can be accomplished.

This facility has several options at its disposal. Among those would be:

Install new flyrail system:

- All rigging should be removed and replaced.

Dead-Hang all Battens

- Current dead-hung battens will require minor work to fix improper connections
- All flyrail rigging should be removed.
- Any Schedule 80 pipe used as battens can be reused after closer inspection
- All cable should be replaced, and new attachment hardware used

Additional suggestions:

Inspection records are vital.

Rigging systems and their components must be visually inspected by checklist not less than once yearly, and must be inspected by rigging professionals not less than once every 5 years.

Each facility must have a records custodian as well as someone trained to execute yearly inspection checklists, in lieu of yearly professional inspections.