SPINNAKER CORPORATION
EQUIPMENT AND PROCESS SOLUTIONS

REPORT

Customer:
Location:
Subject: Short inspection of Yankee to coater rope system
Date:
Mill Contact:

Background

Inspection to identify contributing issues to short rope life.

Inspection Notes

Working from the wet end towards the first coater:

1. At the tail transfer from the first section dryers (pic. 1) to the basement dryers, the ropes of the two sections run together for approximately three feet. This may create frictional abrasion depending on amount of draw (speed differential) between the two sections.

2. On the return run of the blue rope in the basement dryers it drags across a frame spacer (pic. 2). The millwrights were instructed to move the rope pulley closer to the column to improve the angle to the next pulley such that the rope clears the frame spacer (pic. 3).

3. The blue rope drags across the pulper side frame in basement on its return run from the stretcher to the basement dryers (pic. 4). It appears that, at one time, there was a double rope pulley mounted to the column adjacent to the pulper that was intended as the rope path and this would have cleared the pulper. It was mentioned that this pulley was removed due to problems with the ropes jumping off the pulley and running in the space between the double pulleys. This however, may have been the result of incorrect rope threading. As a temporary correction, the millwrights instructed to re-position the blue rope pulley near the dry end of the basement dryers to move the blue rope away from the pulper side.

4. The red & blue ropes cross each other in the basement run from the pull stack to the stretcher (pic. 5). This can be corrected by switching the single blue rope pulley under the pull stack with the double blue rope pulley used for the blue rope in the first coater section, as this is now used only as a single pulley (pic. 6). The blue rope from the pull stack would then be routed to the outside groove of the double pulley with the red rope on the inside.

5. The stretchers are older, less efficient designs with considerable hysteresis (pic. 7). Rope life can be improved by replacing with a newer unit that includes “Thread” and “Run” modes. In “Run” mode the rope tension is reduced to the minimum to keep the ropes on the pulleys. On a sheet break, the system automatically switches to a higher rope tension (“Thread”) for tailing. Running in the lower rope tension except for tailing reduces rope stress and increases rope life.

End of written report. Refer to photos of following pages.

1523 Avondale Drive • Green Bay WI 54313

Ph. - 920.265.0941 Fax – 920.227-4178 • info@spin-corp.com

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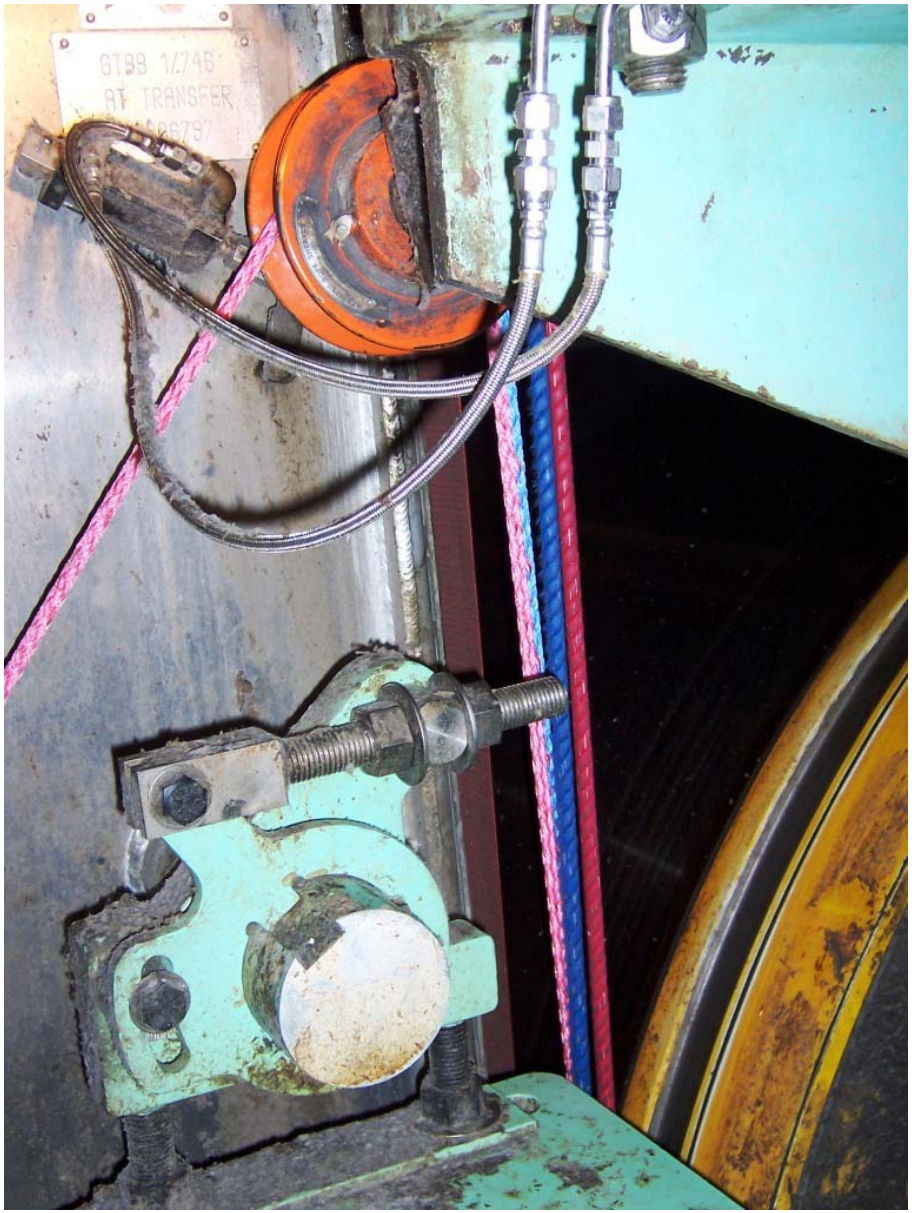

Picture #: 1

Location: Rope transfer 1st to basement dryers

Bearing: N/A

Alignment: OK

Comments: Considerable contact of ropes between sections.

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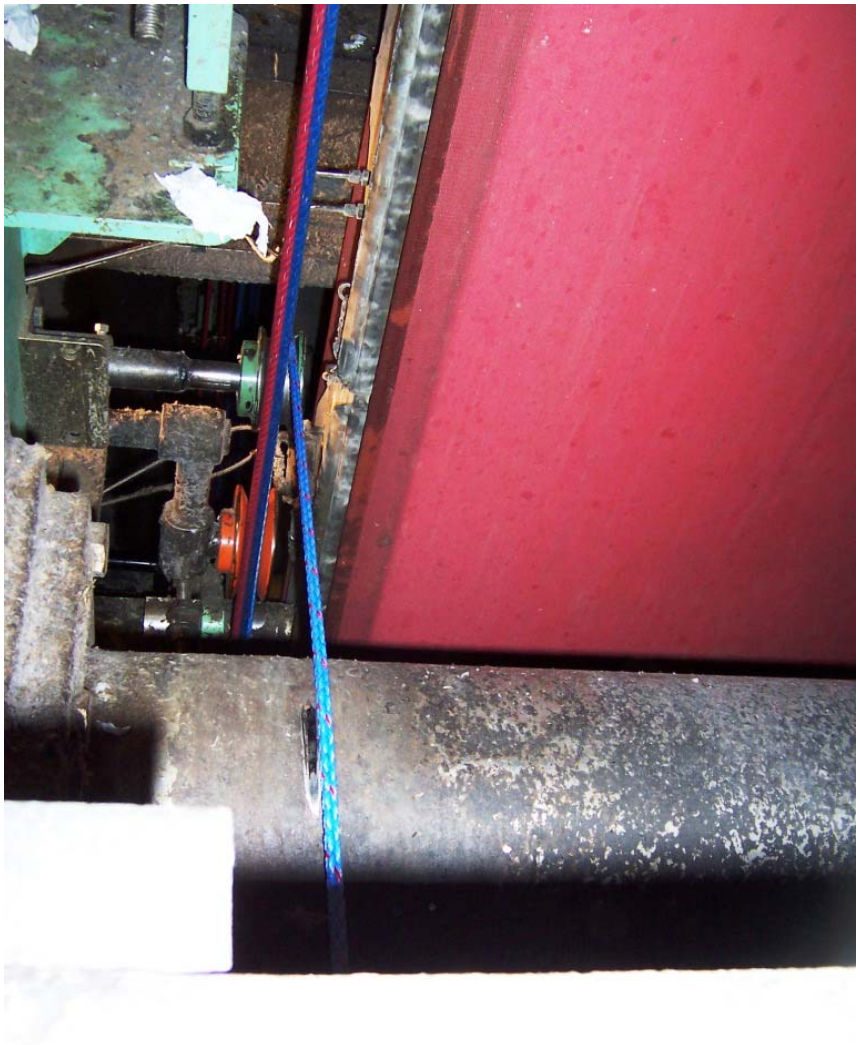

Picture #: 2
Location: Basement dryers; blue rope return
Bearing: N/A
Alignment: N/A
Comments: Rope dragging across frame spacer

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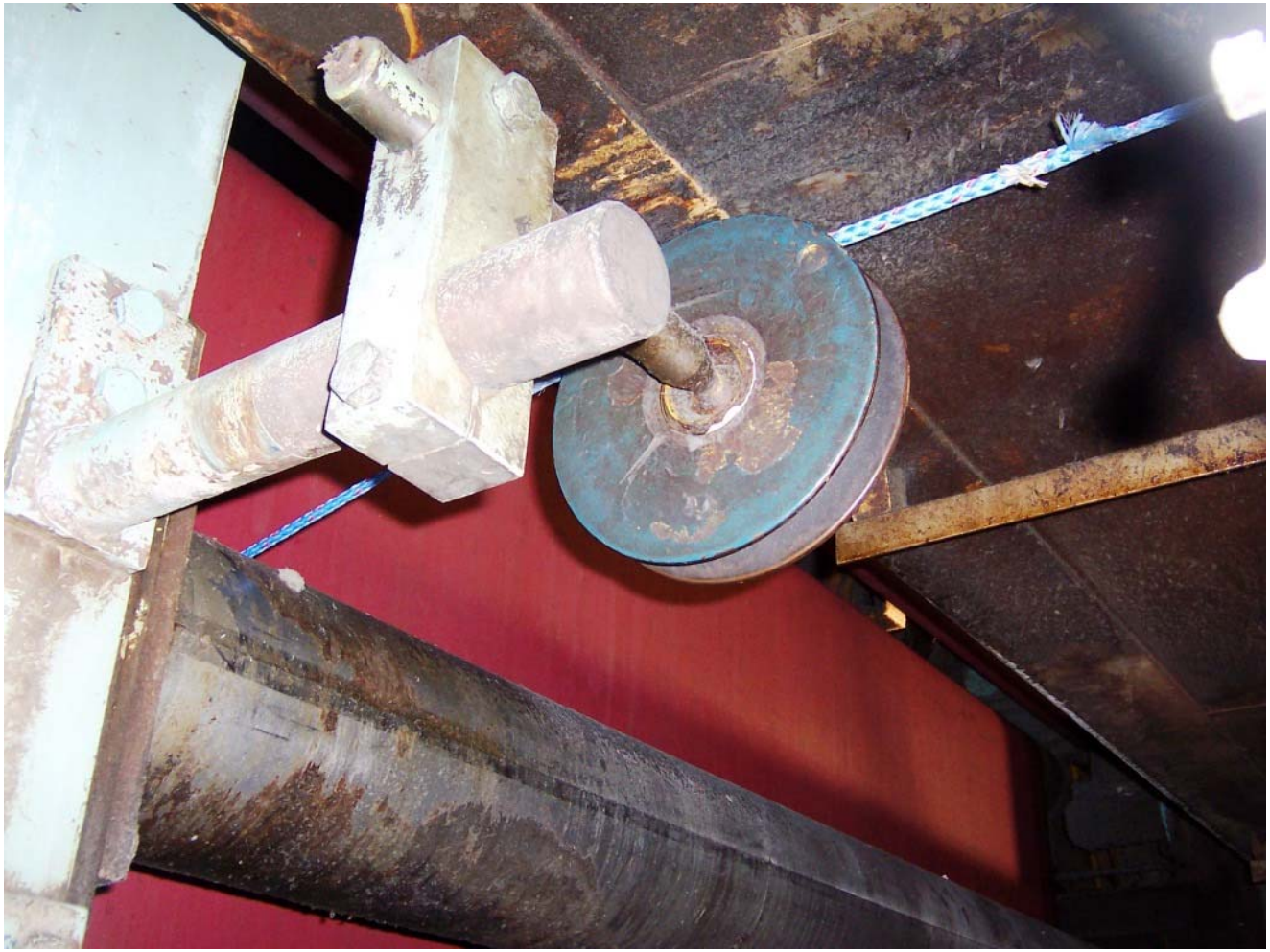
Picture #: 3
Location: Basement dryers; blue rope return
Bearing: N/A
Alignment: N/A
Comments: Move closer to support column to improve lead over frame spacer.



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Picture #: 4
Location: Yankee pulper
Bearing: N/A
Alignment: N/A
Comments: Rope dragging on pulper.

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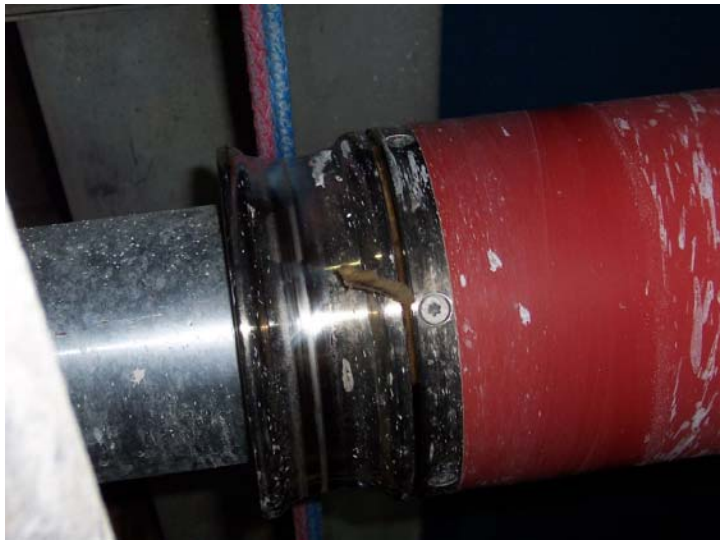
Coater Section

Picture #: 9
Location: Floor level; lead to Mt. Hope
Bearing: OK
Alignment: OK
Comments: No problems.



Picture #: 10
Location: Mt. Hope prior to dryers
Bearing: N/A
Alignment: Shifted to D.S.
Comments: Rope running on T.S. side of groove.

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Picture #: 5
Location: Under pull stack.
Bearing: N/A
Alignment: N/A
Comments: Ropes crossing each other.

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- Picture #: 6
- Location: Under pull stack.
- Bearing: N/A
- Alignment: N/A
- Comments: Pulleys can be swapped to eliminate ropes crossing.

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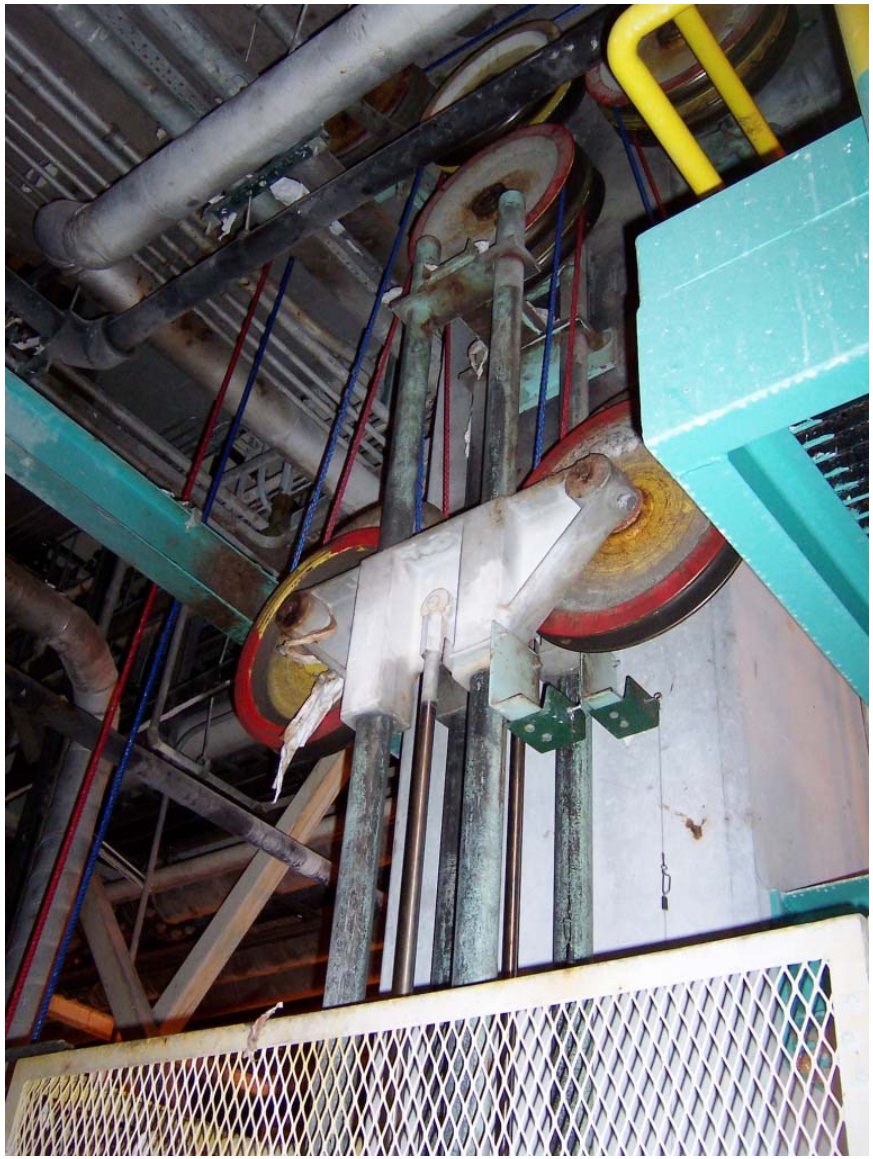

Picture #: 7
Location: Rope stretcher.
Bearing: N/A
Alignment: N/A
Comments: Older, less efficient rope stretcher.