

1. SOOT BLOWER D.T.
2. COATOR ~~PUMP~~ PUMP PARKING FAILURES
3. WOODYARD FIRES
4. DEWIRE LINE D.T.
5. ~~RAUMASSEL~~ RAUMASSEL D.T.
6. BELTEX ISARRING.
7. F.I.S CONVEYOR TENSIONING.
8. ROLL WRAP JAMING.
9. PAPER ROLL BELT FAILURES
10. HVAC FOR MILL - MCC: CONTROL ROOMS

Chipper Knives (Rocks)

Beltex Roll Covers	HFB1 Oil Burner
HFB2 Ash Conveyors	Port Rodders
Mud Underflow Pumps	Motor Failures
HFB1 Precip Hopper Plugs	Soot Blowers
Polisher Resin Failures	HFB2 Variator
Urea Mix Feed Pumps	Chute Leaks
Wire King wire removal	Conveyor Rollers
Bales Falling	Mobile Equipment
Random Electrical Breakers	AD Cylinders
AC units	
Log Aligner (Saw Deck)	
Roof Leaks	
Seal Failures	
PM2 Plugged Thick Stock Screen	

Parts	People	Position
• Bearings • Gearbox • Driveshaft • Belt • Oil • Motor/Drive • Cooling fan	• RE → Olivia • Operators • MWs • NWT • Gearbox Rebuild Shop - supervisor • OEM	• 11/15/25 - 11/17/25 • Brg failed at night • #2 Beltex on P13, operating floor • Normal environment
<u>Papers</u> • Vibe data • Lubz data (Lube-it) • Operational parameters • Grades • WO history • Oil analysis (Mobil) • Rebuild reports • Belt Install report • Compare to other paper machine setup		<u>Paradigms</u> • "Pan out of oil" • General beltex roll failures

PARTS	PAPER	POSITIONING	PEOPLE
• Tube Bundle • Tube Plugs • Cond. Traps • CTL Valves • Temp Trans. • Flow & Press Trans.	• Cond. PMSO • OEM Failure Report • Proceed • SOP start up • Shutdown of Sgs • SAP H: string (170) • Glycol PMSO • OEM OWC's • @	• Basement G-41 • 2025 (11/24) • 2024? • Startup Sgs. • 4 tubes • Localized on top of bundle • Ops • Shutdown Machine • Weather getting colder • #2 PM system • Top of Bundle • Intertube?	• Process Eng. (Maddy) • OEM of PM1 - Bill & Steve • JFD coil (Cont.) • RE (Jacob, Bill) • Planner (Shawn) • Sup. (Tucker) • IR (Tom) • PROJECT (Andy)

PARADIGMS

PROBLEM STATEMENT:

THE #1 PM GLYCOL HEATING SYSTEM HAS EXPERIENCED CHRONIC RELIABILITY ISSUES OVER THE LAST TWO YRS. FAILURES RESULTED IN \$BOK-24 AND ~130K-25.

1 PM GLYCOL HEATING SYSTEM CHRONIC FAILURES RESULTING YTD ~\$20K.



