

Don Davies - Evanik

Q: Has anyone encountered DCS coding errors?

A: Everyone has. Always ensure coding changes are well documented in comments, both executions and why changes are made. Make sure simulations are well marked & removed as possible. Can keep a database record of all changes made to DCS coding.

Mill / Company Update & Opportunities Roundtable

Affiliation: TEXO Name: LAURIER MORISSETTE

Mill / Company Update:

1. new upgraded wood chip analyzer CMS-AQA on sawdust up and running
2. development of digester control for better hydraulic digester level control
3. sand measurement development
4. successful commissioning of advanced recaust control at clearwater Lewiston ID

Problems:

1. Q:

A:

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2. Q:

A:

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3. Q:

A:

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4. Q:

A:

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Mill / Company Update & Opportunities Roundtable

Affiliation: Howe Sound Pulp Name: Aamirah Allykhan

Mill / Company Update:

1. Rebalanced ClO_2 application to use bleach towers retention to full capacity. Approx. 2-3 kg/ADT of chlorate savings
2. Lowered Eop exit pH to 9.5. No negative effects
3. New evaporators will be commissioned by the end of 2016.
4. New O_2 Delig tower project delayed; will be online in 2017.
5. New MC Do tower project postponed by ~~2~~ 1 year.

Problems:

1. Q: Evaporator fouling; boilouts every 12-20h.

A: ¹ lower residual FA ⁴ Ash seeding (RB ash)
² fatty acid ratio in soap (paper) ⁵ More SO_4 , less CO_2
³ residual sodium carbonate in wL to digester

2. Q:

A:

3. Q:

A:

4. Q:

A:



Mill / Company Update & Opportunities Roundtable

Affiliation: Irving Pulp & Paper Name: Rick Wasson

Mill / Company Update:

1. New kappa Q

2. GZ

3. Bleach Plant Adv. Controls.

Problems:

1. Q:.....

A:.....

2. Q:.....

A:.....

3. Q:.....

A:.....

4. Q:.....

A:.....

Mill / Company Update & Opportunities Roundtable

Affiliation: Verso - Wisconsin Rapids **Name:** Brittany Spencer

Mill / Company Update:

1. Verso emerged from bankruptcy in July
2. Finished a large capital upgrade to replace the boiler bottom of 1 of our 3 recovery boilers
3. Have seen huge success with pre-bleach enzyme with good reduction in ClO_2 consumption

Problems:

1. Q: ^{We struggle w/ scale on our DI stage optical instrumentation.} The scale needs to be wiped off weekly, occurs after operational upsets.

A:
..... likely pitch deframer deposits, moving it post ClO_2 addition may be helpful, IP runs last stage neutral, see

2. Q: if it correlates to upsets w/ liquor in recaust,

A: caustic/ ClO_2 ratio control may help pH control

3. Q:

A:

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: NORTHWOOD - CANFOR Name: DAN KAKNEVICIUS

Mill / Company Update:

1. Installed new centrifugal chiller for ClO_2 plant.
2. Capital - Obsolescence mostly. Front end instrumentation, kappa analyzer, lenses, droplegs, shower bars, washer heads.
3. Long term - maybe chloride removal, condensing turbine, lots of steam savings projects.

Problems:

1. Q: Anyone have consider benefits of using gas-free vokes on washers?

A:

Yes - some data from down south that they work really, really well

2. Q: Anyone using $Mg(OH)_2$ (Magnesium Hydroxide).

A: - We really to employ less - not soluble.

→ pump in pH, and then second bump after it dissolves

→ very abrasive. Couple mills in south 20-30% replaced

→ will never unsettle.

3. Q:

A: → Mechanical pulp mills use it.

→ No benefit for O_2 delign - paper by FP innovations. Data inconclusive for strength.

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: ^{WEST ROCK} LA TUQUE-MILL Name: Dominic Côté

Mill / Company Update:

1. Will start new batch digester next month. Should also change 3 others digester in 2017.
2. Working with ~~XXXXXXXXXX~~ to have an auto control for white liquor dosage vs wood density.
3.

Problems:

1. Q: Do you see bleaching cost change with season change?
A: Yes, it seems to be winter time, the more expensive because bark.

2. Q:

A:

3. Q:

A:

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: CHEMSTONE Name: ANT MEUSE

Mill / Company Update:

1. RECENT SUCCESSSES (MULTIPLE) FOR GL/WL/W WASH FOR VERY LOW DOSE MAINTENANCE OF SCALE CONTROL
2. CLEAN ON THE FLY, INTERMITTENT USE OF HIGHER DOSE TO SAFELY REMOVE EXISTING $CaCO_3$ DEPOSITION
3. ~~INTERMITTENT~~ W/O DT

Problems:

1. Q:

A:

2. Q:

A:

3. Q:

A:

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: WEYERHAEUSER **Name:** ALISON ROWAT

Mill / Company Update:

1. Weyerhaeuser Longview went to Nippon
~~Dynalene~~ Dynawave Packaging Aug 2016
2. Port Wentworth + New Bern took downtime
ahead of hurricane Matthew. Both running well
after mild submersion
3. PW has major recovery upgrade Q1 2017

Problems:

1. Q:

A:

2. Q:

A:

3. Q:

A:

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: Collino & Family Name: Jim Collino

Mill / Company Update:

1. Working on new Bleach & Scrubber survey preliminary presentation tomorrow (Oct 25)
- 2.
- 3.

Survey.
#mill

Problems:

1. Q: FRP Monitoring Program Core Sampling

- 4 A: 1. Core sampling / plan for following shut ^{or immediate} repair on shutdown
- 2 2. Monitor "weak spots" & replace on short shuts or annual
- 1 3. Run to Failure

2. Q: Programs other than Core sampling

A: Inspect using cameras
- look at different ^{sections} ~~seconds~~ each shut

Howe
N. Sound

Northwood - ~~the~~ good experience with Ultrasound
- stamp & replacement dates and material on ^{pipings, replaced}
3. Q: (or good records in maint ^{Eng files}) when

A: Cariboo: company for predictive ~~data~~ predetermined
company Horizontal? suspects spot
bad

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: DMI Peace River Name: Almer Fetahovic

Mill / Company Update:

1. New Brownstock Keppa & EA Analyzer installed and Commissioned
2. Flash Tank Upgrade
3. Overfire Air System / Power Boiler Upgrade - Improved Combustion Air Control
4. Digestor ^{with} Overlay Project

Problems:

1. Q:

A:

2. Q:

A:

3. Q:

A:

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: Skookumchuck Pulp Name: John Shao

Mill / Company Update:

1. 2 BLTs will be installed and commissioned by the end of the year
2. Tried a new washer drum ~~from China~~ at Washer 11 ~~from~~, It did not work.
3. Enzyme trial in machine stage for pulp drainage shows 3-4% improvement of machine. Extended trial will be run by the end of the year.

Problems:

1. Q: Any steam mixer tripping before E2?
A:
 - steam nozzles plugged. They should be unplugged
 - scale from the pump and chute by changing pH.
2. Q: it can be improved.
A:

3. Q:

A:

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: Verso Quinnesec Name: Brian LaBrash

Mill / Company Update:

1. Emerged from Bankruptcy and have a new Board
2. ~~Atex~~ Installed a new D₂ Washer in May
3. Will replace Surface Condenser in Rio in Nov

Problems:

1. Q: Anyone with a concrete chip pad have issues w/ sand ^{when rotating pile}
A: Hinton does, Irving too. Check sand for magnetic particles - Dave Flater. Are suppliers sending more sand?

2. Q: Is anyone seeing increased frequency of expansion joint failures ^{in the ST.}
A: No responses

3. Q: How many mills use a work permit - ^{operations issues} permit for work in the area
A:

4. Q: How many mills are controlling consistency to Bleach Washers?
A:

Mill / Company Update & Opportunities Roundtable

Affiliation: TEXO Name: LAURIER MORISSETTE

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2. hydraulic digester control ^{or level} from ~~level~~ digester control
3. sand measurement development
4. successful commissioning of advanced recaust control at Clearwater Lewiston.

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A:

3. Q:

A:

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: West Fraser Name: Heather Friesen

Mill / Company Update:

1. Optimizing machine, able to produce above 1300 ADTPD.
Have a dedicated task force dedicated to pulp machine.
2. Went to area teams (OMC, process eng., mechanical eng., maintenance supv., maint. planner)
Also got rid of Pi Process book + using Copstar's ParView.
3. Installing KappaQ by end of this year.
4. Worked w/ bleach washers + shower bars + saw significant NaOH reduction.

Problems:

1. Q: O₂ reactor vessel crack and have decreased press. at top of vessel to 2psig, didn't see much of a change in delta kappa any reasons why?
A: - Retention time playing - poor mixing of O₂
- consistency + temp → look at channeling - check chemical flows
- ordered a new head at weyerhaeuser mill, same vintage as our O₂ reactor.
2. Q: What do mills use for O₂ chemicals caustic or OWL? Which do you see works better/problems?
A: - depends on balance : OWL for base load
- oxid? exotherms → control oxidation
- majority using OWL or both, few using just caustic.
3. Q: Roll cleaning showers on press washers, what do most people use for wash water + if using hot water where do you return it?
A: - Mena Henderson talk to her about filtrate loop
4. Q: RS: MeOH^{press} addition to ensure higher efficiency at higher production

A:
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Mill / Company Update & Opportunities Roundtable

Affiliation: Canfor Pulp Name: Wojas Sarraz

Mill / Company Update:

(Brittany)

1. Enzyme trial (Xylene based Enzyme)
Looking for bleaching chemical saving
2. 2-hour retention ↑ Application point unbleached h.i.D

3. 0-2 delig 2nd Reactor - Nov 2016 installation
~~increasing to 3~~ Looking for biodiesel production
by hydrocracking from black liquor.

Problems:

1. Q:

A:

2. Q:

A:

3. Q:

A:

4. Q:

A:

Mill / Company Update & Opportunities Roundtable

Affiliation: Cariboo Pulp Name: Rahiv Lubana
Rohul Pukodyil

Mill / Company Update:

1. We recently got Koppa G and Alkali C Analyzers. Koppa G is in control, Alkali C is still work in progress.
2. ^{software} Implemented a dust collection system at the Chip dumps.
3. New Process and mechanical engineers.

Problems:

1. Q: How many mill have an R10, do you neutralize? your ~~residual~~? Where do you recover Sodium Sulfate? Neutralize?
 A: 1 mill Brian to brush ^{NaOH businesses} -> dont neutralize, 20% Sulfuric Acid.
 1 mill Thunder boy

2. Q: _____
 A: _____

3. Q: ~~Has anyone looked at the ^{throughout} Koppa Yield model for the mill? For working or making the model for the mill and wanted to know if anyone has done much in that field.~~

4. Q: Has mill implemented controls on the Digester using results from an online analyzer?
 Things to watch out for!
 A: - Weyhauer mills use liquor analyzer in most of their mill. Any feedb.
 - Aaron ~~Weyhauer~~ recommends having a protection signal to avoid any issue with false reading