

REGULAR SESSION –WEDNESDAY, AUGUST 17, 2022

STATE OF KANSAS)
) SS
CITY OF KANSAS CITY)

Item #4– Approval of Work Session Minutes of August 3, 2022

A motion was made to approve the minutes of the Work Session of August 3, 2022, by Ms. Mulvany Henry, seconded by Mr. Bryant, and unanimously carried.

Item #5– Approval of Regular Session Minutes of August 3, 2022

Ms. Mulvany Henry asked for a correction to be made. The minutes stated that Ms. Mulvany Henry would not be attending the November 2 meeting. The correct date of her absence was the October 19 Board meeting.

A motion was made to approve the corrected minutes of the Regular Session of August 3, 2022, by Mr. Bryant, seconded by Ms. Mulvany Henry, and unanimously carried.

Item #6 – Public Comments

There were no comments

Item #7 – Central Avenue Betterment Association

Mr. Edgar Galicia, Executive Director of the Central Avenue Betterment Association (CABA) spoke to the Board about the organization and the different programs, such as mentoring with youth in the community. He also talked about what CABA was doing to work toward the future. He thanked the Board for all that BPU had done in the past and requested support in the future. (See attached PowerPoint.)

Mr. Galicia responded to questions and comments from the Board.

Item #8 – General Manager / Staff Reports

- i. *Nearman Mill Liner Replacement Project:* Mr. Hoang Nguyen, Senior Mechanical Engineer, spoke to the Board about the Ball Tube Mill Liner Replacement project being undertaken at Nearman Creek Power Station. He explained why it was being replaced as well as how the replacement would be carried out and showed the Board a tool he had designed to assist with the replacement. (See attached PowerPoint.)

Mr. Nguyen responded to questions and comments from the Board.

REGULAR SESSION –WEDNESDAY, AUGUST 17, 2022

STATE OF KANSAS)
) SS
CITY OF KANSAS CITY)

- ii. *Rescheduled Nearman 2022 Fall Outage:* Glen Brendel, Director Electric Production Operations/ Maintenance, explained to the Board, why they had determined it necessary to revise the scheduled Fall Outage.

Mr. Brendel and Mr. Dong Quach, Executive Director Electric Production, responded to questions and comments from the Board.

Mr. Jerin Purtee, Executive Director Electric Supply, spoke about the financial impact of the upcoming outage.

- iii. *Delegates for Western Fuels 2022 Annual Meeting – Resolution #5275:* Mr. Johnson talked to the Board about the upcoming Western Fuels meeting which he, Mr. Quach, and Mr. Jeremy Ash, Interim COO, would be attending.

A motion was made to approve Resolution #5275, Appointing Delegates and Alternate Delegates to the 2022 Western Fuels Association, Inc. Annual Meeting, by Mr. Bryant, seconded by Mr. Milan, and unanimously carried.

- iv. *Miscellaneous Comments:* Mr. Johnson updated the Board on the video recording equipment needed for the Board meetings.

He also informed the Board about an upcoming meeting with potential vendors and the Purchasing department regarding doing business with BPU.

He wished Happy Birthdays to Mr. Bryant and Ms. Gonzales.

Item #9 – Board Comments

Mr. Haley wished Mr. Bryant and Ms. Gonzales Happy Birthdays and thanked all for the evening’s informative presentations.

Mr. Groneman had no comments.

Mr. Milan also thanked everyone for the excellent presentations.

REGULAR SESSION –WEDNESDAY, AUGUST 17, 2022

STATE OF KANSAS)
) SS
CITY OF KANSAS CITY)

Mr. Bryant thanked all for the presentation. He also said that he would not be at the September 7 meeting.

Ms. Gonzales thanked all of the presentations. She also complimented the work done on the courtyard.

Ms. Mulvany Henry thanked all for the presentations.

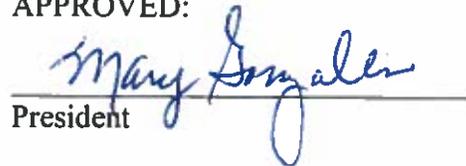
Item #10 – Adjourn

A motion was made to adjourn at 7:30 P.M. by Mr. Bryant, seconded by Ms. Mulvany Henry, and unanimously carried.

ATTEST:


Secretary

APPROVED:


President

RESOLUTION NO. 5275

(CLASS A MEMBER)

RESOLUTION APPOINTING DELEGATES AND ALTERNATE DELEGATES TO 2022 ANNUAL MEETING OF WESTERN FUELS ASSOCIATION, INC.

BE IT RESOLVED by the Board of Directors of RC

BPU that the following named persons are hereby

appointed as its Delegates and Alternate Delegates, to-wit:

BILL JOHNSON Delegate

DONG QUACH Delegate

JEREMY ASH Alternate Delegate

_____ Alternate Delegate

to the 2022 Annual Meeting of the Members of Western Fuels Association, Inc.

SECRETARY'S CERTIFICATE

I, _____, Secretary of _____, do hereby certify that the above and foregoing Resolution was adopted by the Board of Directors in a meeting on the _____ day of _____, 2022, and that this Resolution has not been amended or modified.

Dated this _____ day of _____, 2022.

Secretary



Nearman Creek Power Station Unit 1

Ball Tube Mill Liner Replacement Project - Lifting Devices

By: Electric Production

Dong Quach

Tung Nguyen

Hoang Nguyen

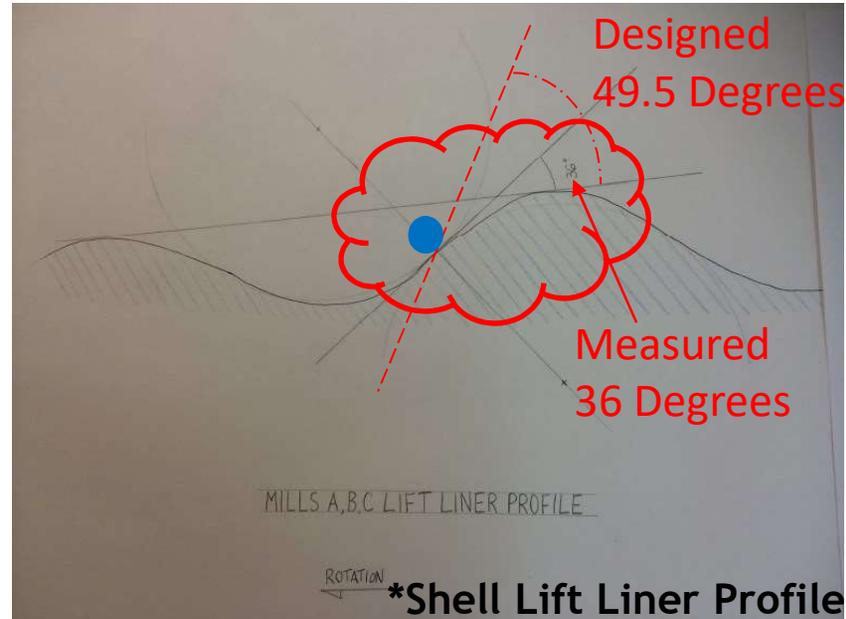
August 17, 2022

Ball Tube Mill Liners

- Ball-Tube Mill (BTM) Liners
 - In service since 1981
 - What are they?
 - To Protect the Mill Tube.
 - To Lift the Mill Balls Up as the Tube Rotates, the Balls Tumble onto the Coal, Crushing & Pulverizing it.
 - Better Coal Fineness.
 - Why Did The Liners Need to be Replaced?

Why Replaced?

- Shell Lift Liners Originally Had a Lift Angle of 49.5 Degrees.
- Mill Wear Shell Liners Measured to Have 36 Degrees.
- Had Grooves On the Surface, Indicating Mill Balls Were Sliding Off the Liners Rather Than Being Lifted.



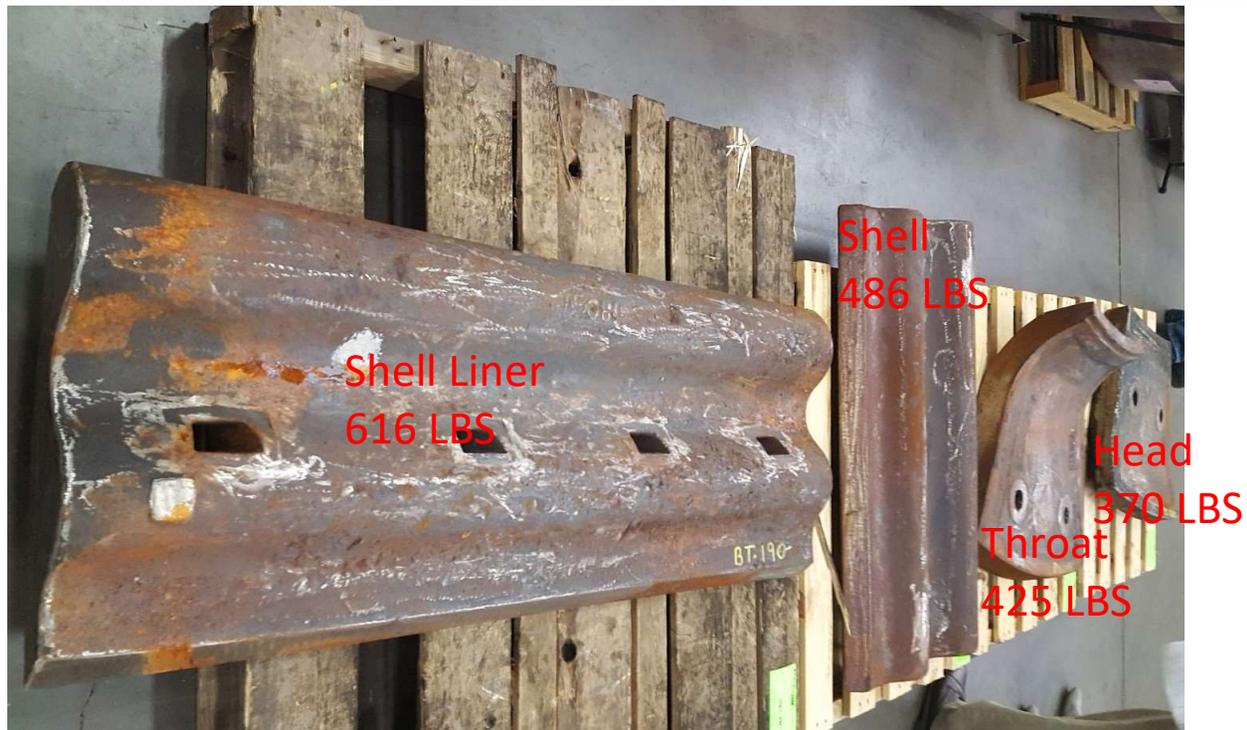
One of the Most Challenges:

How to Get The Liners In-and-Out The Mill or Moving Them Around?

- Heavy Liners
- Small Access
- Meet Schedule

Line	Qty/Mill	Weight EA (lb)	Item	Description	Qty/3 Mills
1	60	616	BT-190	SHELL LINER, 4'-0" LG	180
2	48	486	BT-191	SHELL LINER, 3'-0" LG	144
3	32	370	8YX-2207	HEAD LINER	96
4	20	425	8YX-2349	THROAT LINER	60
Total	160	80,628			480

New Liners



BTM Liner Lifting Devices

Lifting Devices



In House

- Designed by BPU Electric Production Engineering.
 - Quickly Attached and Released
 - Heavy Lift
 - Safe to Use
- Fabricated by BPU Electric Production Machine Shop.

Testing Devices



Installing Liners



BTM Liners

- Mill Tube Without Wear Liners



- Mill Tube With Partially New Liners



- ***Estimate**
 - Installed 8 Liners per Shift
 - To install \$494,475
- ***Actual**
 - > 40 Liners were Installed per Shift.
 - Installed \$368,247
 - Safety: > 4,000 Manhours without Incidents.
 - On Schedule

*Based on installed liners only, not including removed liners and the costs of extended outage if there were no lifting devices.



BTM Liners

Before



After



Question?

THANK YOU!!!



Nearman Fall 2022 Outage Update

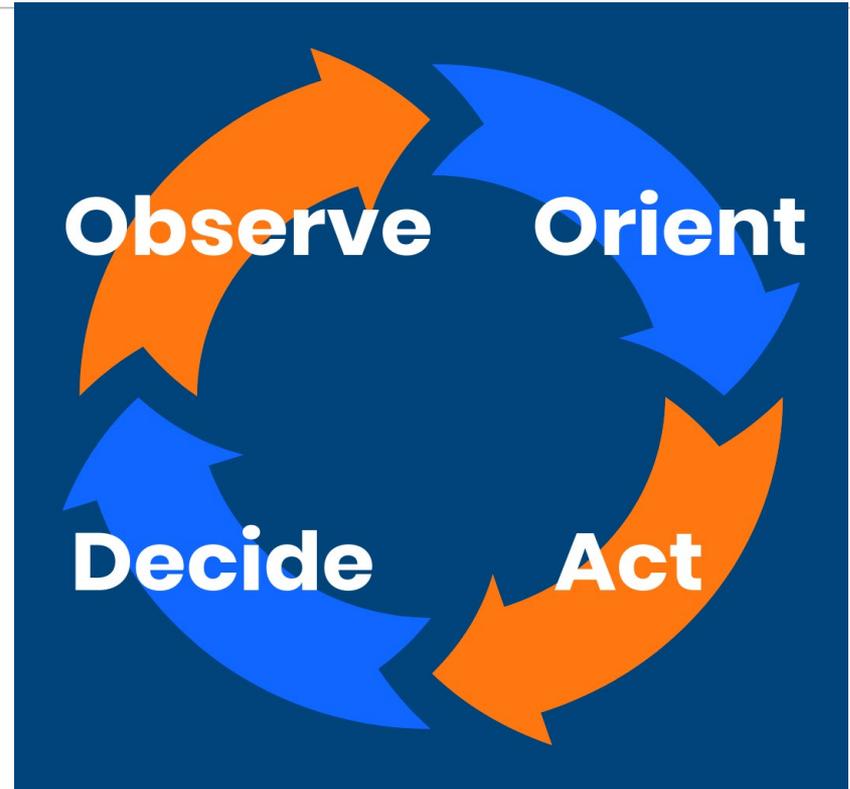
Glen Brendel

Agenda

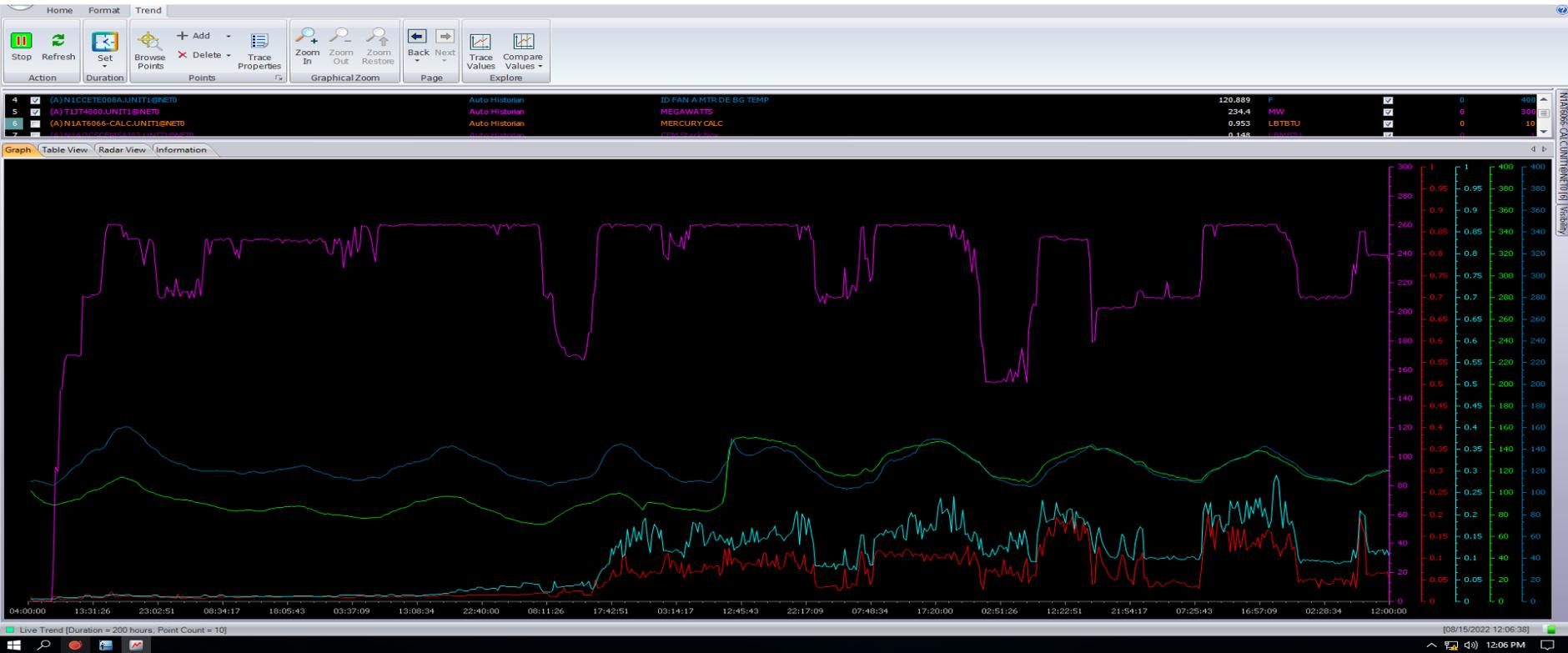
- Safety Topic
- Induced Draft Fan Motor
- Outage Move and Scope
- Loss of Crusher and Flop Gate

Safety

“OODA” stands for Observe, Orient, Decide and Act. First, position yourself for the best view of your surroundings. Then, keep your eyes peeled to things that might be problematic to you, including things you already identified as out of place. When you do see something potentially dangerous, decide what to do and act on it. Once you act, start the OODA loop over again, always keeping awareness sharp.



NEARMAN INDUCED DRAFT FAN MOTOR BEARING IMMINENT FAILURE



Outage Scope

Outage moved forward due to A ID fan emergent need. Revised scope of work:

- N1 LP gland seal replacement, root cause of loss of vacuum issues on turbine
- A ID fan motor bearing replacement. Root cause of failure investigation is ongoing
- Cooling tower structure repairs
- Boiler safety valve inspect, repair, and test
- Deaerator and drum inspections
- Normal ash removal in SCR, CDS, and LPA screens
- Corrective maintenance backlog and Planned Maintenance.

Questions, Concerns, Comments?

