

VPP
POWER
GENERATION
WORK
GROUP

November 17, 2022

Please check in on the chat function
with your name, title and company.
Feel free to add email





2022 4th Quarter Meeting

Your Facilitators:

Alex Miller

Sr. Regional Safety Manager & VPP Coordinator

Vistra Corporation

Kelli Heflin

Sr. Manager, Safety & ESG Coordinator

Onward Energy

Safety Moment

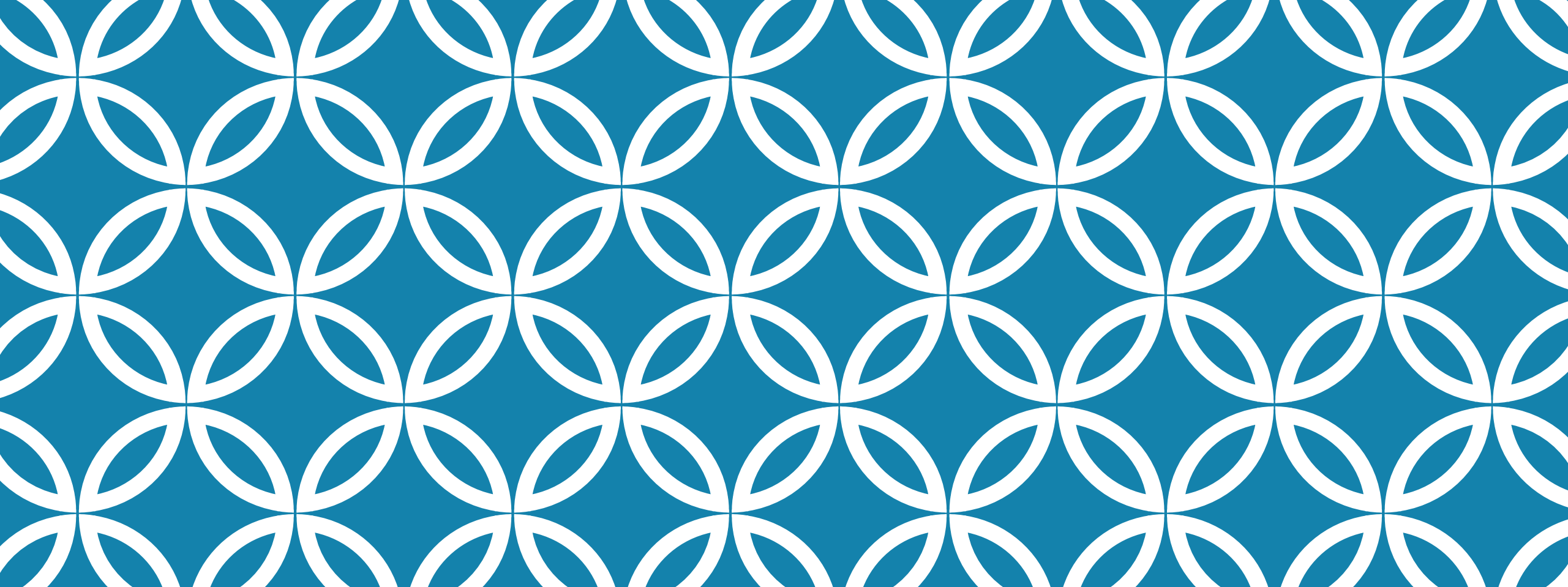
Presented By:

Rob Coit

EHS Manager

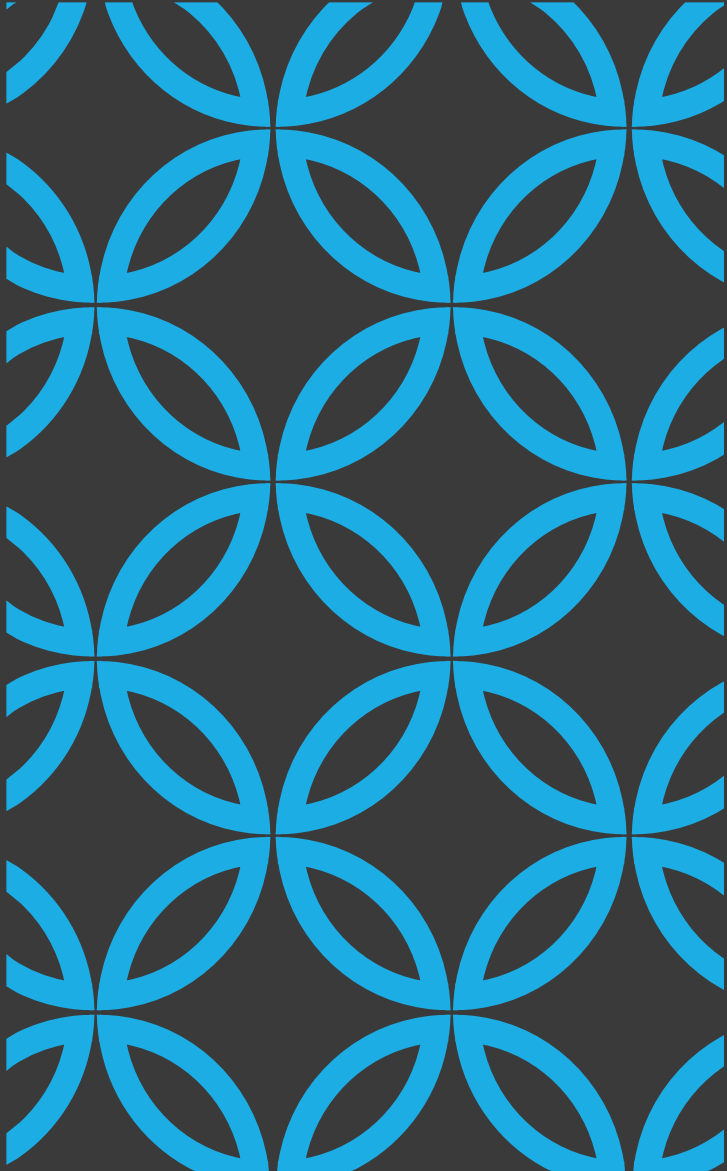
Ontelaunee Power Plant





'T WAS THE WEEK AFTER OUTAGE

Adapted by Rob Coit from
"A Visit from St. Nicholas"
Or
'Twas the Night Before Christmas
By
Clement Clarke Moore



*'Twas the week after Outage, when all through the plant
The contractors were gone, and rentals were scant
The dumpsters were full, and ready to go
Waiting for Waste Management as you might know*

*The control room was calm, the outage was done
Turbines were spinning and generators on run
Plant manager in his office and I in my own
We had just relaxed to talk on the phone*



*When out in the yard, we heard such a noise
We jumped from our desks to check on employees
Away to the control room, quickly we strode
To look at the cameras to see what they showed*

*The alarms on the DCS were all very quiet
And the CEMS let us know that we were compliant
When a fine gentleman in the shop was espied
Holding a jug of something, not clearly identified*

“What is this?” He yelled “Can you guess?”

I knew right away that it was Sir GHS

With diamond labels, all neatly on a roll

To identify contents, that was his goal

Carcinogens, Flammables, Irritants and Explosives

Gas Under Pressure, Toxins, Oxidizers, and Corrosives

All must be labeled, so we know what we’ve got

All very simple or so we’ve been taught



The labels are diamonds, red outline with picture within

Very simplistic, no two are akin

From the top of the stacks to the cable vaults he went

Labeling all containers of hazards we had to present

Sir GHS explained his neat system to us all

“Label your containers, no matter how small

The GHS system has been smartly devised

With pictograms all globally recognized”

“Carcinogens or health hazards, they are the first

The symbol is a torso with a central starburst

Flammables are easy, a fire it does show

Oxidizers are similar, but flames burn a big O”



“For compressed gasses, a bottle is the container

So that is the symbol for them, nothing is plainer

Explosives show us a neat little explosion”

Sir GHS explained to us, staying in motion





“Corrosives cause harm to your skin and metals to fail

Test tubes dripping acid, shown to us in detail

Environmental hazards show a dead fish and sick tree

Make sense to you? It sure does to me.”

“Fatal or acutely toxic have the skull and cross bones

That is a symbol familiar in all time zones

Wear the appropriate PPE while working with this

Finding someone not doing so, something’s amiss”



“The exclamation mark is the final pictogram”

Sir GHS proclaimed as happy as a clam

“Covers your irritants your sensitizers,

It advises everyone, even supervisors”



Sir GHS, his job here now completed

Left for more locations yet to be treated

As he left, he called out, “Y’all do me a favor,

Label your containers and you will be much safer”

screen Play: Greg Wilhelm

Script: Rob Coit

Producer: Rob Coit

Co-Producer: Greg Wilhelm

QUESTIONS?





VPP Updates

Since last meeting:

New VPP Applications Submitted or Accepted

Initial VPP Approvals

VPP Reapprovals

VPP Element

Power Generation Industrial Hygiene

Chris Magnuson

NorthWestern Energy



Power Generation Industrial Hygiene - Element 2.h

November 2022

Name your favorite VPP Element Sub-Element

- Industrial Hygiene
- Training
- What
- Safety



↳ The Challenge

- Raise of (digital) hands
 - Any group been taken off guard?
- Looks simple on paper, but it is a very extensive program
- Does it have to be difficult?



VPP IH program expectation

- Starting line - Baseline worksite analysis
 - Anticipating & Recognizing
- Treat this like an audit
- BP for us:
 - At least initially – do not combine worksite analysis
 - Focus on IH hazards

VPP IH program expectation

- The program
 - Surveys
 - Sampling Strategy
 - Results
 - Expertise
 - Evaluating
- This needs to be a written program
 - Ours includes direction for all the above expectations





Specific hazards

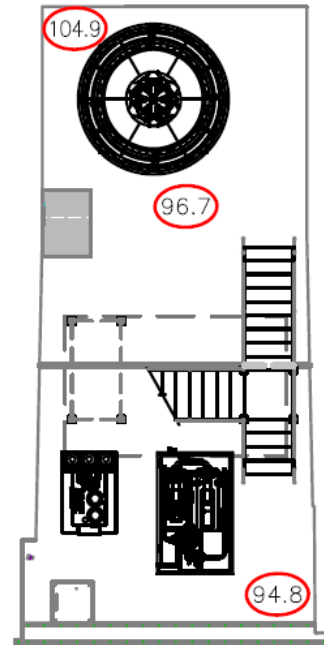
IH Hazards

- Air contaminants
 - Dust, fumes, mists, aerosol, fibers
- Physical hazards
 - Noise, illumination, temperatures, radiation
- Chemicals
- Biological
 - Virus, fungi, bacteria
- Ergonomics

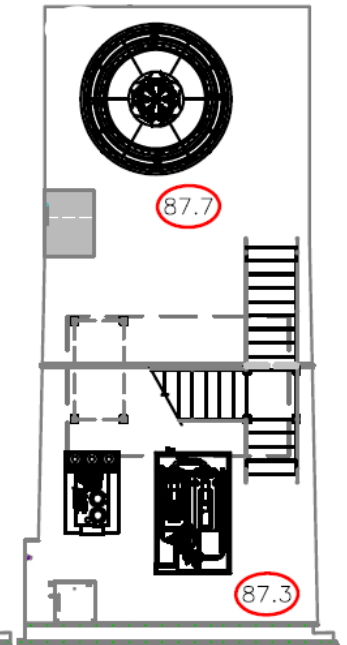
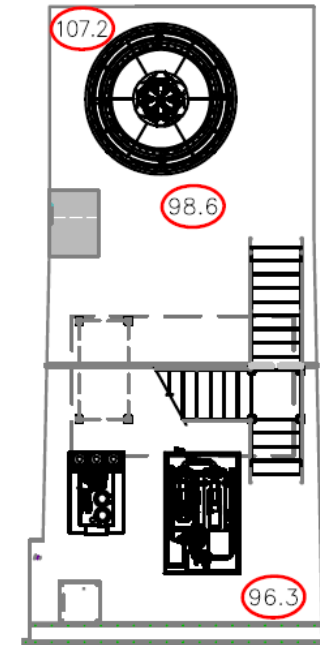


Noise

- Very common hazard
 - If there are generators there is noise
- One of the most demanding of hazards
 - Monitor / reevaluate constantly



TURBINE
LEVEL



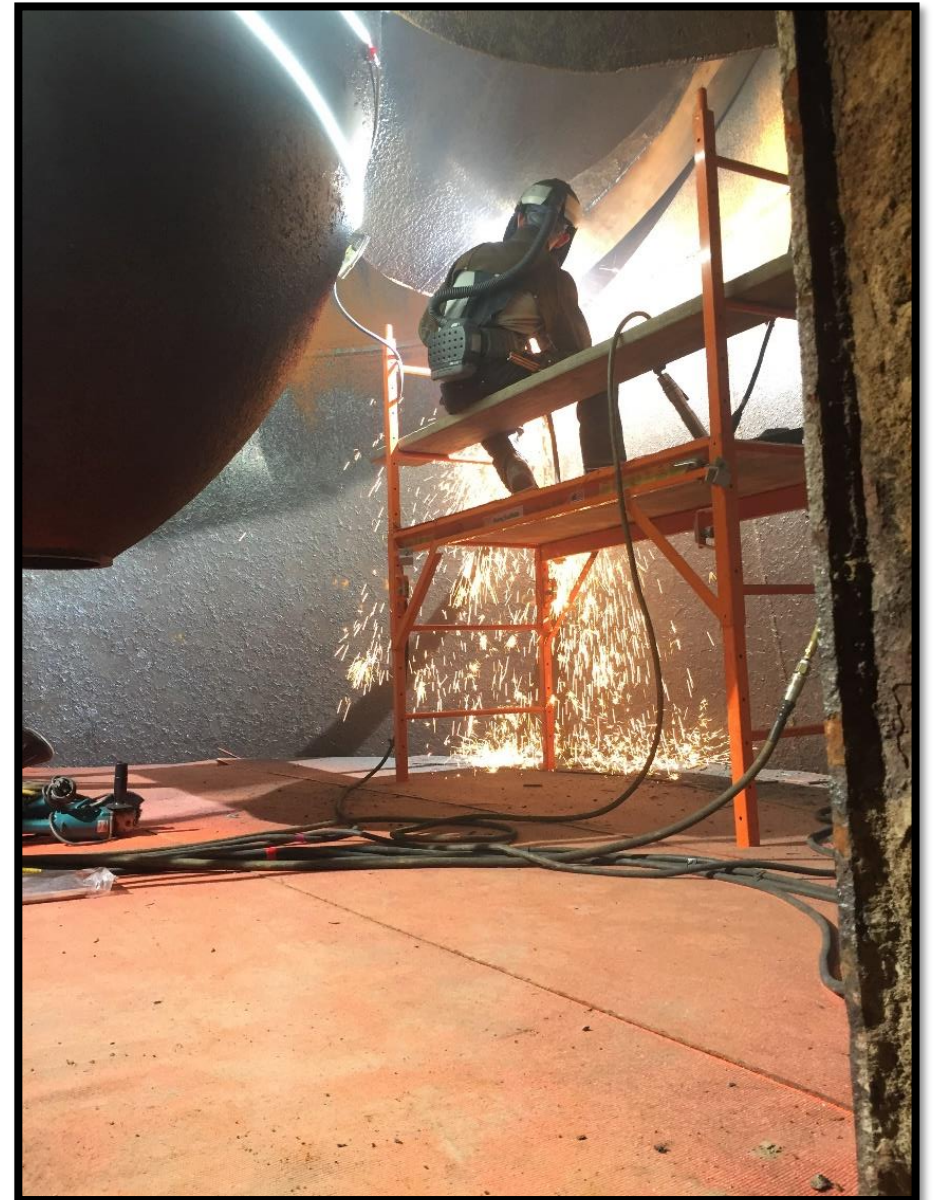
Noise - control

- Hearing Protection Program
- Area noise control
 - Control / isolate the source
 - Improve absorption – Tectum
 - Provide area's of controlled noise level
- Employee monitoring
- Educate



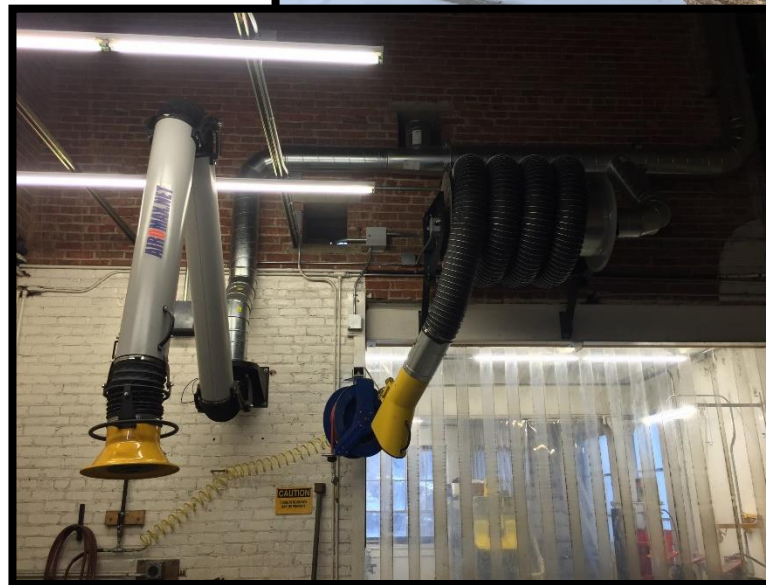
Welding

- Also a common process to be analyzed
 - What type of welding is performed
 - What are we welding on
 - What are we welding with
 - Where are we welding
 - How often, for how long



Welding - controls

- Is there a better way?
- Substitution – better safer products
 - Composites, epoxy's, etc...
 - (these will need to be evaluated as well)
- Ventilate / capture
- Educate



Dust

- It's everywhere!
 - From nuisance to potential silica containing
 - Possible toxic dust due to processes??
- Targeted monitoring



Dust - controls

- Wet method
- HEPA attachment
- Respiratory protection
- What about substitution???



Lead

- Depending on the age of your facility this one may not be as big of an issue
 - Can any one tell me what year LBP was banned?
- Babbitt anyone?
- How do you control LBP???



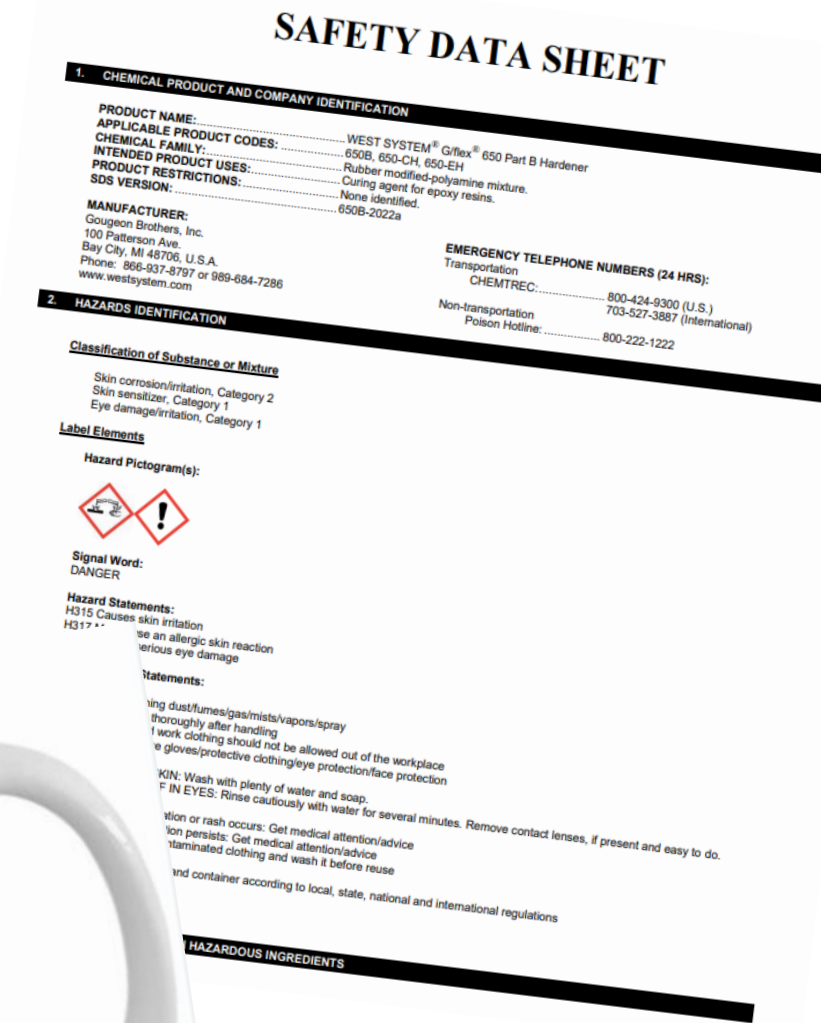
Asbestos

- Again may not be an issue for some facilities...but beware in older facilities
 - Transite panels
 - Wall materials
 - Insulation
 - Old tile



Chemicals

- What is an IH's second favorite game?
 - What's in that?
 - Use of solvents or other VOC producing chemicals
 - Oils ... PCB's???
 - Epoxy
 - Paints
 - ... Everything ...
-
- Controls?



Biological - IAQ

- What is an IH's favorite game?
 - What the heck is that!?
- Some fun ones:
 - UWGS
 - Fungi / mold
 - What about pests?
 - Droppings
 - Nests
 - Etc...
- Controls?



Group discussion

- What are some less recognized potential exposures that you have discovered at your site(s)?
- What are some of your major IH hazards?
- Any control measures taken worth sharing?



Summary

- Don't overlook your IH
 - It is easy to grow complacent
- It doesn't have to be difficult
- Outside resources are a great tool!
 - Use appropriately

- Feel free to contact me for more information on our program



Questions?



Chris Magnuson | CSP

Safety and Health Professional

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Energy

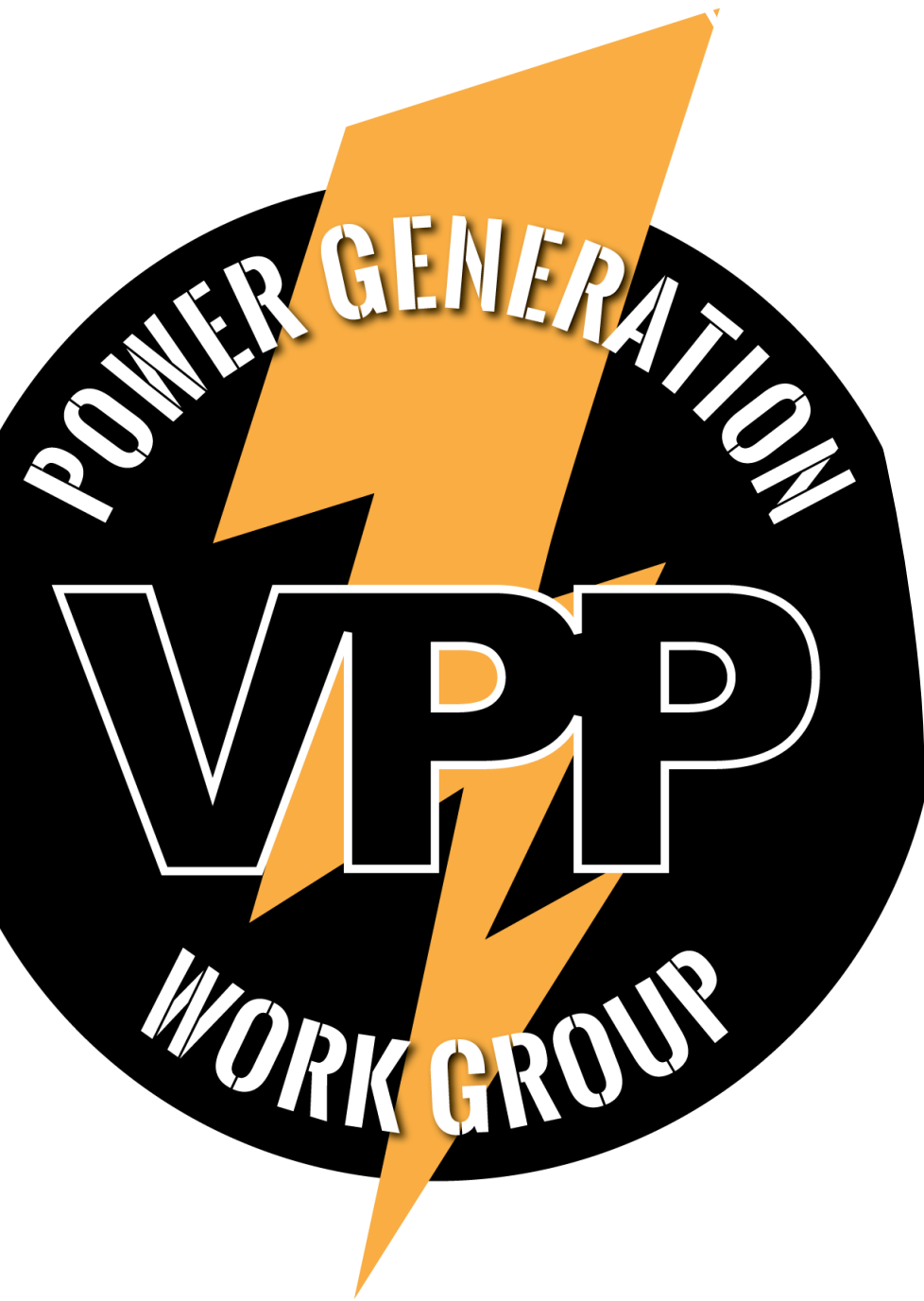
Delivering a Bright Future

Committee Updates



- Newsletter Committee
 - Newsletter scheduled for Q4 - November
- Newsletter Contributions
 - What does the group want to see?
 - Send ideas, proactive topics, presentations, etc. by October 15th.
 - Reminder email to be sent to the group on September 15th.
- Contact Courtney Robinson
Courtney.Robinson@Luminant.com





Open Discussion

Questions?

Suggestions?

Discussion points?





2023 VPPPA Conference Schedule

Region 1 - TBD

Region 2 – Combined with Region 3

Region 3 – April 24 – 27, 2023. Kalahari Resort, PA

Region 4 – In conjunction with VPPPPA Safety+

Region 5 – June 14-15, 2023. South Bend, IN

Region 6 – May 22 – 25, 2023. Corpus Christi, TX

Region 7 – TBD

Region 8 - In conjunction with VPPPPA Safety+

Region 9 – In conjunction with VPPPPA Safety+

Region 10 – May 16-18, 2023. Kennewick, WA

VPPPA Safety+ - September 18 – 20, 2023. Orlando, FL



2022 Meeting Schedule

~~February 17th~~

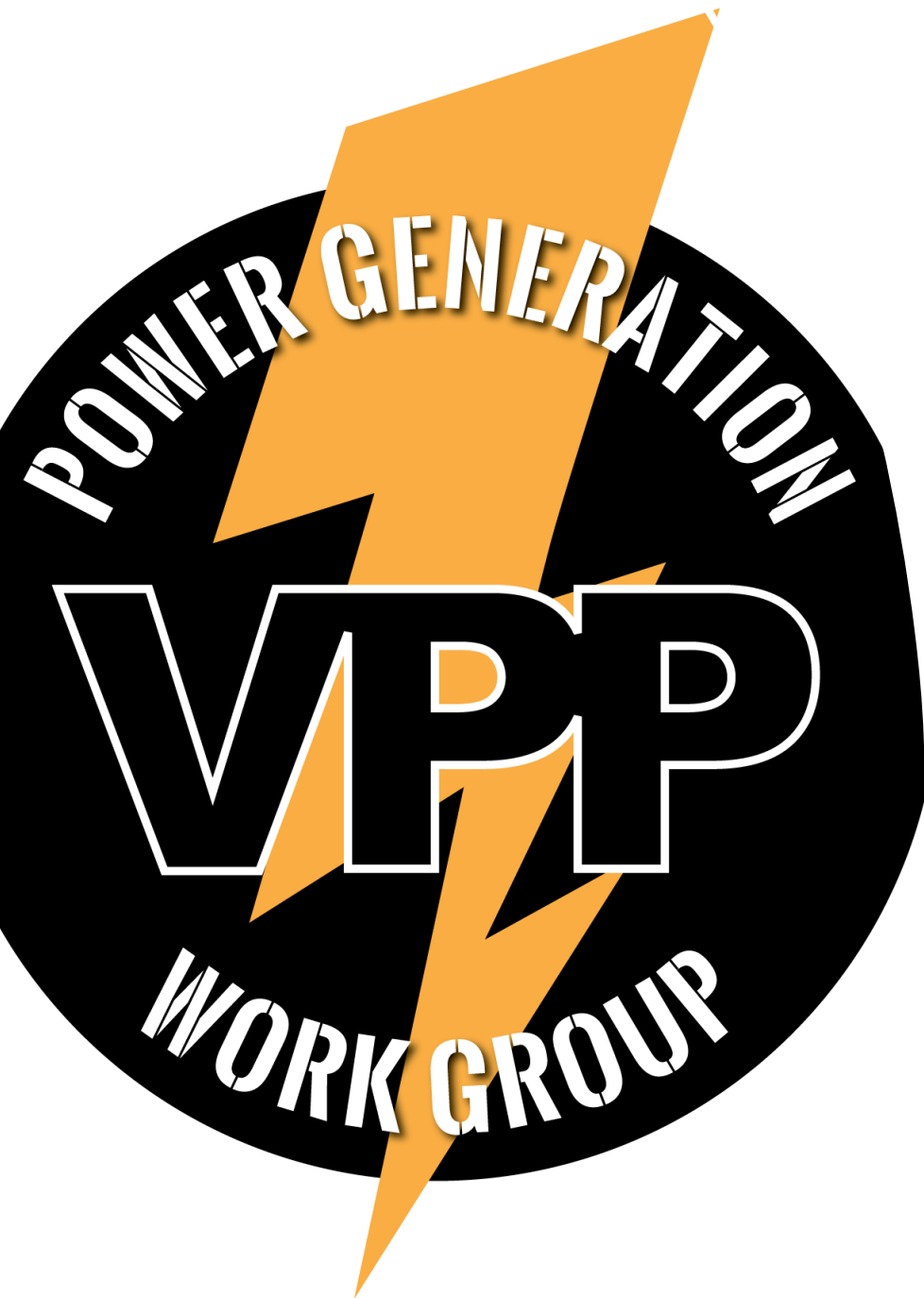
~~May 19th~~

~~August 18th~~

~~November 17th~~

Meetings are scheduled from 1430 – 1600ET (1230 – 1400MT)





Next Call: December 8th 2022

Planning Meeting

If you have not already done so, please enter your attendee names, site name and company name into the chat function on the Zoom meeting.

Send Suggestions or offers to volunteer to:

Alex Miller – alexander.miller@vistracorp.com

Or

Kelli Heflin – Kelli.Heflin@OnwardEnergy.com
