

VPP
POWER
GENERATION
WORK
GROUP

February 18, 2021

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





2021 1st Quarter Meeting

Your Facilitators:

Kelli Heflin
Manager, Safety & ESG Coordinator
Onward Energy

Alex Miller
Regional Safety Manager
Vistra Corporation

VPP Power Generation - Safety Moment



Casco Bay Energy

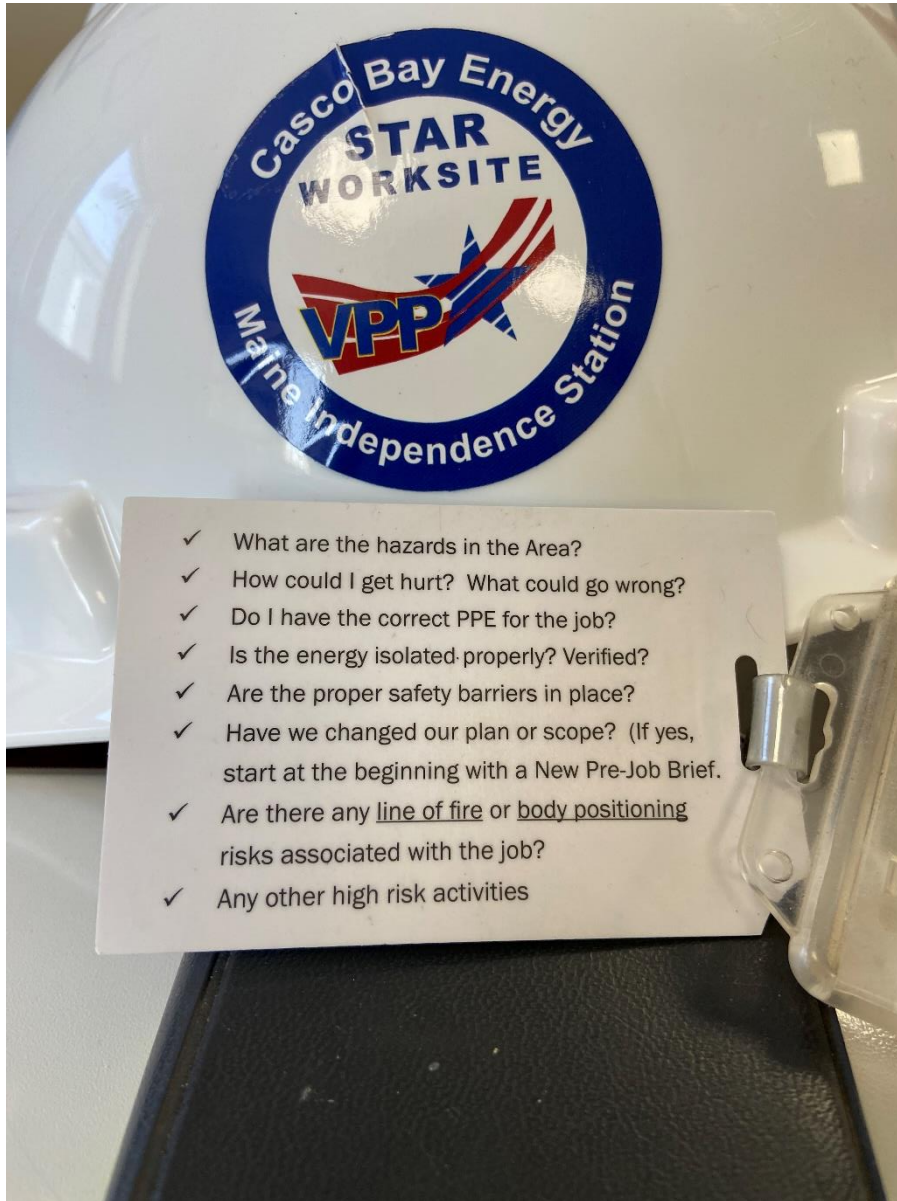
February 18, 2021



Luminant

2 Minute Drill – A Human Performance Improvement (HPI) Error Reduction Tool.



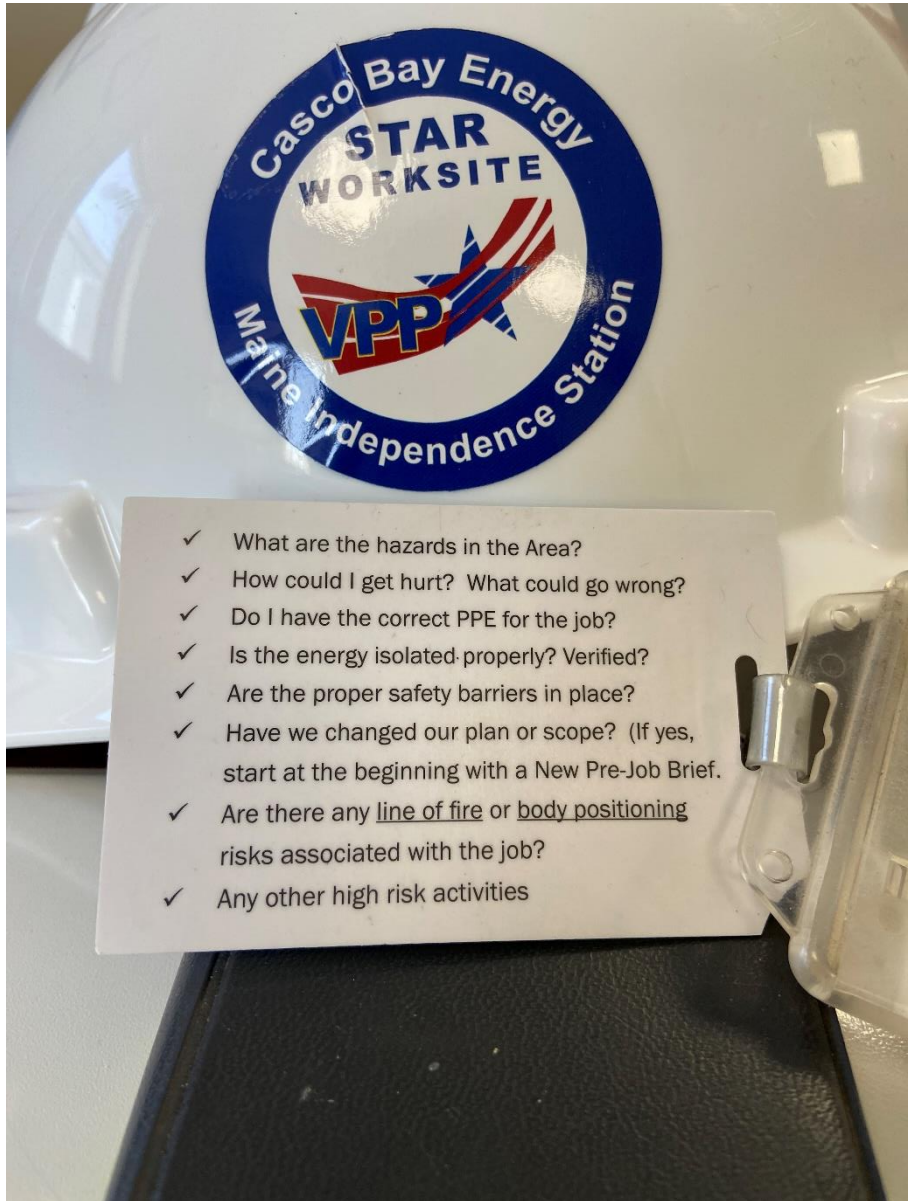






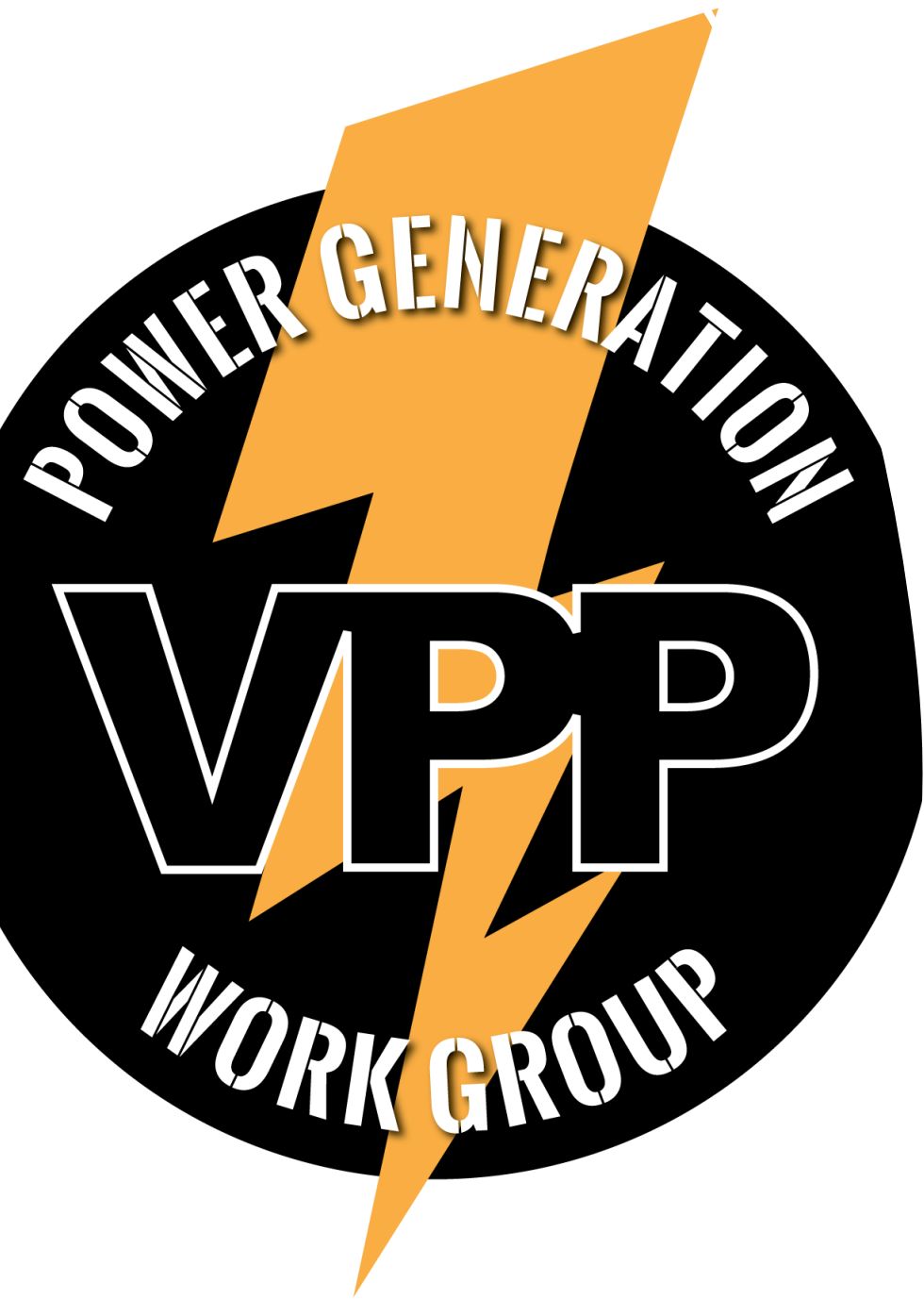






Questions





VPP Updates

Since last meeting:

New VPP Applications Submitted or Accepted

Initial VPP Approvals

VPP Reapprovals

VPP Element

Wheelabrator Waste To
Energy Plants

Safety Management System

Dave Smith

Director of Safety

Wheelabrator Technologies

dsmith11@wtienergy.com





WHEELABRATOR WASTE-TO-ENERGY PLANTS SAFETY MANAGEMENT SYSTEMS



www.wtienergy.com

At Wheelabrator,
nothing we do
is more important
than SAFETY.

Protecting the health and safety
of our employees and the
communities we serve is a
value we will not compromise.

We are proud to be part of
VPPPA, working collaboratively
to enhance and strengthen
workplace safety in the U.S.



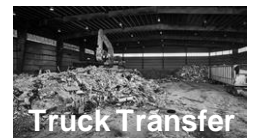
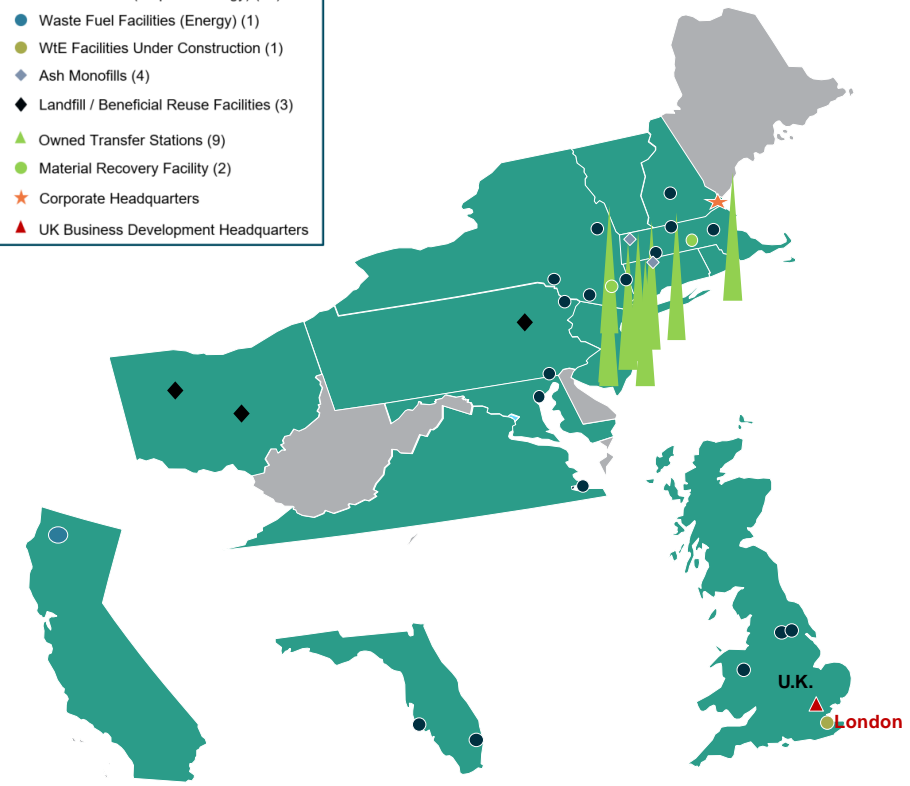
Company Overview

Strategically located infrastructure assets providing critical power generation and waste disposal services

- Corporate offices in Portsmouth, NH and London England.
- Owned by Macquarie Infrastructure – part of Macquarie Group Limited, one of the worlds largest asset management firms.
- Leading owner and operator of strategically located WTE, Collections, Truck/Rail Transfer & Disposal facilities in North America with an expanding footprint in the U.K.
- Approx. 2000 Employees
- In 2019, processed ~6.9 million tons of post-recycled solid waste, generated ~4.3 million net MWh of power and recycled 151,000 tons of ferrous and non-ferrous metals and other recyclable materials

Asset Map

- WTE Facilities (Disposal/Energy) (18)
- Waste Fuel Facilities (Energy) (1)
- WTE Facilities Under Construction (1)
- ◆ Ash Monofills (4)
- ◆ Landfill / Beneficial Reuse Facilities (3)
- ▲ Owned Transfer Stations (9)
- Material Recovery Facility (2)
- ★ Corporate Headquarters
- ▲ UK Business Development Headquarters



Our Values



Safety on Purpose We work safely on purpose to ensure we return home each day to family and friends. We are empowered to always do the right thing for the safety of our team and the communities we operate in.



One Team We are all part of the one team. We understand that the whole is more than the sum of its parts, and that each of our different perspectives contributes to the success of Wheelabrator.



Pride Matters We have pride in ourselves, our teams and the service we have been providing to our communities for over 40 years. We will leverage our history, our experience and our integrity to continue to drive operational excellence over the next 40 years.



Make a Difference We work hard to make a positive difference every day for our team, our customers, and our communities. We are committed to delivering exceptional safety, environmental and operational performance at all times.



Act with Courage We have earned the right to explore new opportunities and try new things as we seek to solve business, customer and community problems. We will be better than we were yesterday, we ask each and every day is there a better way to do that?

Our Policy

Safety: Our Cornerstone for Success!

Our Commitment

Safety is equal to all other key elements of our business; it is the adhesive that bonds our operating principles together and is an essential ingredient necessary for achieving our goal of operational excellence. The cornerstone of our success is a strong commitment to safety.

Our Responsibility

We believe that every incident is preventable, and we will provide the tools, training and time to perform every task safely. Nothing we do will be placed at a higher level of importance than our responsibility to protect the welfare of every worker.

Our People

Our employees are Wheelabrator 's most valuable resource. We encourage the active involvement of all team members in promoting a positive safety culture. We believe that working safely and maintaining a safe and healthy workplace is a condition of employment and that each of us shares in that responsibility.

Our Success

Wheelabrator constantly strives to be recognized as the leader in our industry. In so doing, our level of safety performance is regarded as a fundamental measurement of our success.

WTE Energy Plants



WHEELABRATOR SAFETY MANAGEMENT SYSTEM

Hazard Identification

- **Thermal** – High temperature surfaces (1500 Deg. F+)
- **High Temperature/Pressure** Fluids and Steam (1200 PSI/1200 Deg. F)
- **Electrical** – High Voltage/Amperage (69,000 volts), Shock/Arc Flash
- **Flammable/Explosive** – Propane, Natural Gas
- **Hydraulic** – High pressure hydraulic systems
- **Pneumatic** – High pressure air systems (110 PSI)
- **Spill/Splash** – Chemicals, Process Waters
- **Caught** (In/On/Between) – Rotating equipment, Pinch-Points
- **Contact** (Struck with/Struck by) Hoisting-Overhead Materials-Vehicular Traffic
- **Walking /Working Surface** – Slips & Trips
- **Falls** – Heights (Boilers and Stacks over 300 ft.)

SAFETY MANAGEMENT SYSTEM

Hazard Identification

- **Respirable/Inhalation**
 - Gases and Vapors – Chemicals-ammonia, chlorine
 - Dust-Fumes-Mists
 - Ash - Lead/Cadmium/Inorganic Arsenic, Silica
 - Welding - Hexavalent Chromium (CrVI)
- **Eye Hazards** – Dust, Welding Flash
- **Noise** – Hearing Protection Areas
- **Biological Hazards**
 - Legionella -Cooling Towers /Closed Cooling Systems, Bloodborne Pathogens-MSW Sharps
- **Heat / Cold Stress** – Ambient temperatures-Heat Illness/Hypothermia
- **Radiation** – Nuclear gauges, “MSW Hot Loads”
- **Ergonomics**-Sprain/Strain-Repetitive Motions

SAFETY MANAGEMENT SYSTEM

Hazard Elimination and Control – “Safety Tools”

- **Safety Goal**
- **OSHA Voluntary Protection Program - Safety Management System**
- **Safety On Purpose Program**
- **Injury Prevention Programs/Safety Rules Book**
- **Safe Work Plans**
- **Safe Job Observations**
- **Safety Committees**
- **Training**
- **Audits and Inspections**
- **Medical Surveillance**
- **Injury, Illness, and Incident Management**
- **Statistical Analysis and Trending**

SAFETY MANAGEMENT SYSTEM

Safety Tools

Available Company-wide through O-Box



SAFETY MANAGEMENT SYSTEM

Safety Goal

ZERO

TODAY

Learn from yesterday,
Plan for tomorrow,
Focus on today!

SAFETY MANAGEMENT SYSTEM

Voluntary Protection Program (VPP) Participation

- Currently 10 STAR worksites; participating in VPP since 1997

- **Cooperative relationship between OSHA/Management/Labor**
- **Exemplary H&S programs/performance & continuous improvement**
- **Incident rates at or below (BLS) industry averages**
- **Annual reports, 3-5 yr. re-certifications**
- **Share best practices, provide SGE assistance to OSHA**
- **Primary Elements**
 - Management Leadership, and Employee Involvement
 - Worksite Analysis / Hazard Identification
 - Hazard Prevention and Control
 - Safety & Health Training
 - Continuous Improvement



SAFETY MANAGEMENT SYSTEM

SOP - Pre-Shift Briefings & Job Safety Briefings



Fifth level

Use this form for all non-routine tasks to identify necessary safety controls and work practices.

CHECK ALL THAT APPLY AND DISCUSS - Write Notes/ Procedure on Back

JOB/TASK Description,
W/O#: _____

1. DO I KNOW HOW TO DO IT SAFELY?

KNOWLEDGE - Trained-Authorized-Permitted

Does JHA exist? If None Exists Complete Hazard Analysis and Procedure Sections before doing work.

SDS Review (Material) / ER Plan

Electrical Qualified Person - Voltages Inv

2. AM I PREPARED TO DO IT SAFELY?

PREPARATION - Hazards Eliminated	
<input checked="" type="checkbox"/> General PPE Hardhat, Slope-protected Safety Glasses, Safety Shoes, Hearing Protection, and Leather Work Gloves	<input type="checkbox"/> Confined Space Entry Permit <input type="checkbox"/> Hot Work Permit Fire Extinguisher Fire Watch <input type="checkbox"/> 30 <input type="checkbox"/> 60
<input type="checkbox"/> Indirect-vented Goggles (Dry- Dust) (Liquids- Air Lance)	<input type="checkbox"/> Non-ventilated Goggles (Dry- Dust) <input type="checkbox"/> Full Face-shield
<input type="checkbox"/> Right tools/ Special- ized Tools?	<input type="checkbox"/> Supplied Air Respirator <input type="checkbox"/> SCBA
<input type="checkbox"/> Chemical- Resistant Suits (Specify Chemical)	<input type="checkbox"/> Chemical-Gloves <input type="checkbox"/> Disposable? (Specify Chemical)
<input type="checkbox"/> Muminized User: <input type="checkbox"/> Hood <input type="checkbox"/> Coat <input type="checkbox"/> Pants-Coveralls	<input type="checkbox"/> Muminized <input type="checkbox"/> Alum. Gloves <input type="checkbox"/> Alum. Boots
Arc Flash: <input type="checkbox"/> Coat <input type="checkbox"/> Pants-Coveralls	Arc Flash: <input type="checkbox"/> Hood <input type="checkbox"/> Face-shield
<input type="checkbox"/> Other engineering Controls	<input type="checkbox"/> Heat Stress? Reduce Temperature and/or Work Time
<input type="checkbox"/> Ladder-Specify Type	<input type="checkbox"/> Scaffold- Permit Current Each Shift
<input type="checkbox"/> Extra/ Emergency Lighting	<input type="checkbox"/> Flashlight <input type="checkbox"/> Helmet Light
<input type="checkbox"/> Buddy System?	<input type="checkbox"/> Crew Size? <input type="checkbox"/> Sufficient Time?

Form # **FMA-WOHS-4.3.1-2** VER _____

Work Group Safety Briefings

PRE-SHIFT SAFETY BRIEFING CHECKLIST

Conduct the Pre-Shift Safety Briefing for each shift as soon as possible, but no later than 60-minutes upon beginning the work day.

DISCUSSION TOPICS

Work Group Scheduled Tasks & Related JHAs – Ask the THREE QUESTIONS!

Significant Near Misses or Incidents Since Previous Shift

PS Actions from Previous Shift

General Plant Status

Permits: Red Tape, Confined Space, Hot Work, Lockout/Tagout

Fire or Emergency System Impairments

Maintenance Plan of the Day

Contractors On Site

Weather-Related Issues

Tours or Other Special Events

Safety Contact – As Determined

Other

Notes: _____

SAFETY MANAGEMENT SYSTEM

SOP – 3 Questions

1. Do I know how to do the job safely?

Knowledge-Trained/Authorized

2. Am I prepared to do the job safely?

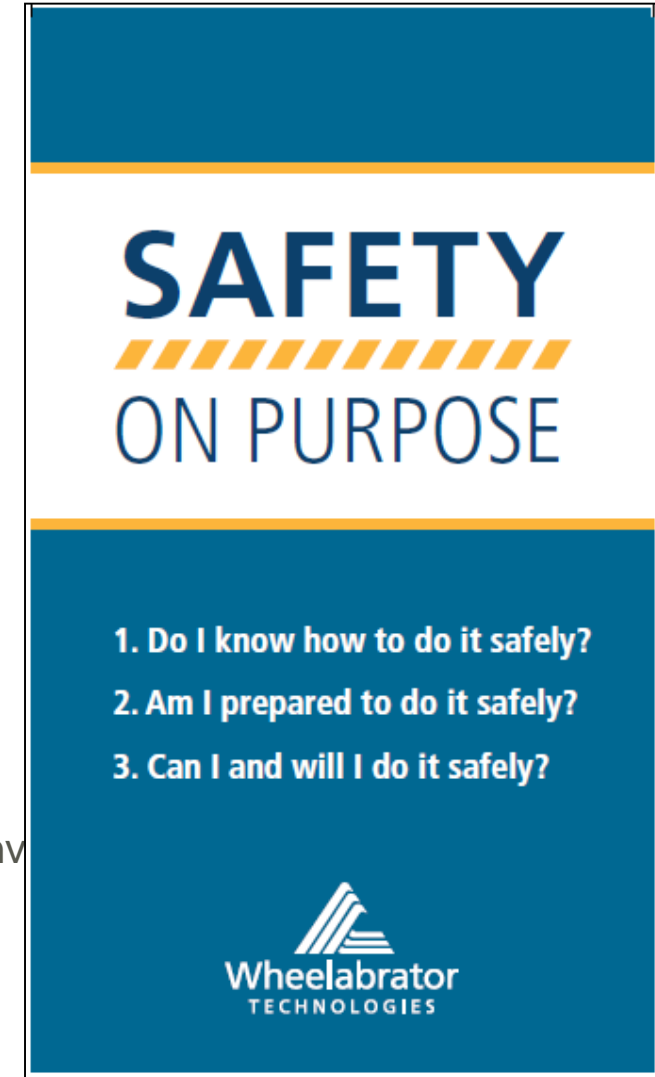
Preparation-JHA/Safe Work Plan-PPE-Tools-Team-Time

3. Can I and will I do the job safely?

(Without endangering myself, others, or the environment)

Actions-Capable And Committed to do the

A “NO” response requires seeking additional Supervisor



SAFETY MANAGEMENT SYSTEM

Safety Action Reporting/Positive Safety Actions

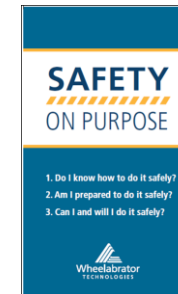
- Identify one Positive Safety Action (PS Actions) taken each day.
- Communicate at next Pre-Shift
- Record on plant White board
- Submit for “Pick of the Week”

PS Actions (proactive) vs Near Miss (reactive)

“Replaced nuts and bolts on the machine guard to prevent corrosion”

P.S. ACTIONS 12/31/07		
<p>OPERATIONS</p> <p><i>Removed debris from an eyewash station sink and tightened a loose paddle actuator on the station.</i></p> <p><i>Revised JHA to specify using a box wrench instead of adjustable wrench.</i></p> <p><i>Volunteered to attend train-the-trainer class for forklift training.</i></p> <p><i>Came up with an idea for a new piece of equipment-hydraulic grapple to unblock feed chute.</i></p> <p><i>Performed post-job safety evaluation with team.</i></p> <p><i>Conducted revised job safety briefing when work scope changed.</i></p>	<p>MAINTENANCE</p> <p><i>Removed debris from an eyewash station sink and tightened a loose paddle actuator on the station.</i></p> <p><i>Came up with an idea for a better procedure to clean conveyor chutes.</i></p> <p><i>Re-scheduled overhead work to be done on night shift when other personnel were not in the boiler.</i></p> <p><i>Reviewed ECPs to verify all large rotor lockouts also include rotor heater circuit isolation points.</i></p>	<p>ADMIN</p> <p><i>Congratulated plant for working safely the past 100 days.</i></p> <p><i>Encouraged team to continue working safely during outage.</i></p>
<p>SAFETY ALERT</p> <p><i>The Cooling Tower has ice buildup that could fall - area is taped off - DO NOT ENTER!</i></p>		

PS Actions



SAFETY MANAGEMENT SYSTEM

SOP-Communications

- Weekly Safety Review

PS Actions
PS Actions recognitions this week go to LISBON, FALLS, AND GLOUCESTER!

Lisbon
The Lisbon SOP POTW goes to FAH, Jeff McIntyre for identifying two twenty pound propane tanks in the MSW pile. Jeff moved them out of the pile to a safe location so that they would not enter the boiler. Thank Jeff for having good situational awareness.

Falls
Prior to filling a portable water tank, Jose Morales noticed that the railing to the stairs was not properly attached. Jose obtained the necessary hardware and properly secured the rail. Jose's action eliminated a potential fall hazard.

Gloucester
Drew Brennan, 1st Class Mechanic: While working night shift for the boiler outage, Drew noticed that it was very dark outside near the switch yard and turbine building where the United rental tanks are staged. The light that was out was close to the TG power lines so he was unable to do anything with it while on line. Drew knew that this could be a serious tripping hazard at night since the black rental tank hoses were staged in this area. Drew set up a temporary light to ensure the area was well lit at all times.

SPECIAL THANKS this week goes to JEFF MCINTYRE, JOSE MORALES, AND DREW BRENNAN!
Your attentiveness, willingness to get involved, and positive safety actions are helping to keep Wheelabrator a safe place to work and are greatly appreciated by the entire Company-GREAT JOB TO ALL!

WHEELABRATOR TECHNOLOGIES

WEEKLY SAFETY UPDATE: WEEK ENDING 05/30/2020

RECORDABLE INCIDENTS
There were no recordable incident reported for the week.

Location		OSHA Recordable Cases	TRIR Rate	WTL-WTE-US Statistics 04-30-2020 YTD	
WTL-WTE-US		2	0.25	2020 US (OSHA) Recordable Cases	Lost Workday Cases
No.	Date	Plant	Job Class	Injury Type/Description	LTIFR Rate
1.	01/07	Plant	Triv. Engineer	Acid splash while conducting tank testing	0.25
2.	02/04	McKay Bay	Operator	Laceration of finger from bar caught in operating rotary valve	0.25

Location		OSHA Recordable Cases	TRIR Rate	WTL-WTE-US Statistics 04-30-2020 YTD	
WTL-WTE-US		2	0.25	2020 US (OSHA) Recordable Cases	Lost Workday Cases
No.	Date	Plant	Job Class	Injury Type/Description	LTIFR Rate
1.	01/05	Plant	Operator	Fracture foot while moving away from fire April flow	0.25
2.	02/23	McKay Bay	Operator	Observed metal trying to break each discharge during test	0.25

Location		OSHA Recordable Cases	TRIR Rate	WTL-WTE-US Statistics 04-30-2020 YTD	
WTL-WTE-US		2	0.25	2020 US (OSHA) Recordable Cases	Lost Workday Cases
No.	Date	Plant	Job Class	Injury Type/Description	LTIFR Rate
1.	01/05	Plant	Operator	Fracture foot while moving away from fire April flow	0.25
2.	02/23	McKay Bay	Operator	Observed metal trying to break each discharge during test	0.25

OTHER INCIDENTS

IN-20200523-002 2020-05-23 Wheelabrator Bridgeport, L.P. Incident Motor Vehicle Accident
All American roll off container came off the side of the carrier rails while tipping on floor. All American roll off container came off the side of the carrier rails while tipping on floor. Roll off landed its side. No injuries. Hauler came onsite to investigate and restrain driver after I was determined that the driver allowed too much slack in the cables.

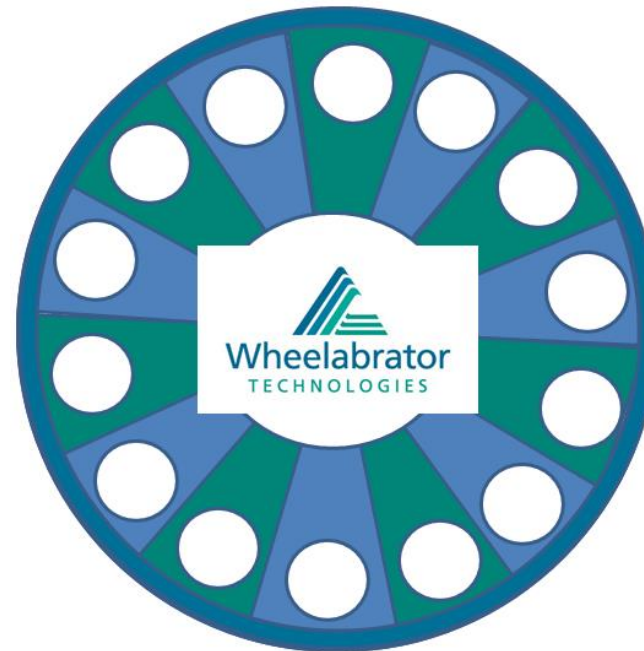
IN-20200524-001 2020-05-24 Wheelabrator McKay Bay Inc. Incident Motor Vehicle Accident
McKay Bay Exit Gate Closes on Vehicle Exiting the Plant As an employee was exiting the plant a sign fell off the exit gate causing the gate to malfunction and gate closed on the back side of the vehicle.

IN-20200525-001 2020-05-25 Wheelabrator Dutchess County L.L.C. Incident Property Damage
As The Crane Operator Moved The East Refuse Crane While Opening The Grapple. The Crane swung back hitting the East Crane Deck Door. No Injuries Reported
Upon the Crane Operator taking his lock off the single point LOTO, he went to move the East Refuse Crane while opening the grapple. The crane swung back hitting the East Crane Deck door. No injuries reported.

SAFETY MANAGEMENT SYSTEM

SOP-Recognition and Reward

- Earn points through Positive Safety Actions
 - Daily PS Action submittals
 - Presenting a Safety Contact
 - Writing or updating a JHA
 - Near Miss Reporting
 - Other site-specific criteria
- Spin the Safety Wheel!



SAFETY MANAGEMENT SYSTEM

Injury Prevention Programs

IPP

- **Permit Programs-LOTO, Confined Spaces, Hot Work**
- **Personal Protective Equipment**
- **Walking/Working Surfaces and Fall Protection**
- **Industrial Hygiene**
- **Respiratory Protection**
- **Hearing Conservation**
- **Exposure Control Plans** Lead-Inorganic Arsenic-Cadmium-CRVI-Silica
- **Fire Prevention**
- **Hazard Communication** - MSDS On-Line
- **Emergency Action Plans/Drills**
- **Contractor Safety**
- **Safe Work Plans** - Safety Briefings-Job Hazard Analysis-Energy Control Procedures
- **Safety Observations**
- **Incident Management-Reporting/Investigating/Recordkeeping**
- **Training/Safety Contacts**
- **Safety Rules Book – High Risk Rules**

SAFETY MANAGEMENT SYSTEM

Safety Permit Programs



WHEELABRATOR HOT WORK PERMIT
WARNING!
HOT WORK IN PROGRESS

RETURN HOT WORK PERMIT TO CONTROL ROOM UPON COMPLETION OF WORK

WORK GROUP <input type="checkbox"/> EMPLOYEE _____ <input type="checkbox"/> CONTRACTOR _____ PERMIT NO. _____ LOCATION/BUILDING & FLOR _____ TYPE OF HOTWORK _____ DESCRIPTION OF WORK _____ AUTHORIZATION I verify the above location has been inspected, conditions and precautions are as indicated on the permit, and the Hot Work is authorized to be performed.		REQUIRED PRECAUTIONS CHECKLIST <small>(Check all that apply, and initial the checkboxes)</small> GENERAL REQUIREMENTS <input type="checkbox"/> Work area fire suppression systems, (such as Halon/CO2, sprinklers-hose systems-fire extinguishers) are in service/operable. <input type="checkbox"/> Nearest fire alarm and method for communicating emergencies to the Control Room have been identified to the Work Group. <input type="checkbox"/> Equipment, conveyors, ducts that could carry sparks to other areas or that could pose a hazard are shut down and locked out. REQUIREMENTS WITHIN 35 FEET OF HOT WORK <input type="checkbox"/> All combustibles above/below within 35 ft. of the work area, have been removed or protected from sparks or flame with fire-resistant or metal shields or covers, or wetted sufficiently to prevent ignition. <input type="checkbox"/> All floor, wall, doorway, and window openings closed or covered. <input type="checkbox"/> Combustible floors (if any) wet down and personnel/equipment protected from potential shock hazards. <input type="checkbox"/> All combustible walls, ceilings, and roofs have been protected from sparks, flame, and heat. <input type="checkbox"/> All combustible materials on the other side of walls, ceilings, and roofs have been protected from sparks, flame and heat. POTENTIAL EXPLOSIVE ATMOSPHERES <input type="checkbox"/> All related tanks/piping/equipment have been isolated or drained/ cleaned/purged, to eliminate toxic or combustible/flammable materials, residue, and vapors. (REFER TO MATERIAL MSDS) <input type="checkbox"/> Potential combustible/flammable atmospheres in the work area or inside tanks and equipment are not present or have been eliminated and verified safe through air testing.	
Signature (SS/LPO or Designee) _____ DATE/TIME ISSUED: _____ TIME FINISHED: _____ PERMIT EXPIRES: _____ DATE/TIME: _____ FIRE WATCH DURATION <input type="checkbox"/> 30-Min. <input type="checkbox"/> 1-Hour A FIRE WATCH WITH READILY AVAILABLE FIRE EXTINGUISHING EQUIPMENT IS REQUIRED DURING AND AFTER WORK IS COMPLETED. Work area, adjacent areas above and below, and all adjacent areas to which sparks and heat might have spread were inspected during the fire watch period and found to be fire safe.		INITIAL AIR TESTING REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO Combustible/Flammable Gas % _____ (<10% of LEL Acceptable) Tester Name _____ Date/Time _____ IF POTENTIAL FLAMMABLE/COMBUSTIBLE ATMOSPHERES EXIST, CONTINUOUS AIR TESTING MUST BE CONDUCTED TO VERIFY SAFE CONDITIONS. VENT TANKS AND CONTAINERS TO PREVENT HAZARDOUS ACCUMULATION OF GASES. For Work In Permit-Required Confined Spaces Follow All Additional Confined Space Permit Requirements.	
FINAL INSPECTION Final work area inspection performed. _____ Signature (SS/LPO or Designee) _____		SEE BACK FOR ANY ADDITIONAL INFORMATION <small>10/2004 Revison 10/2013</small>	



SAFETY MANAGEMENT SYSTEM

Safe Work Plans

- Job Safety Briefings (JSBs)
- Job Hazard Analysis (JHAs)
- Energy Control Procedures (ECPs)
 - TK-Pro Computerized Permit Mgmt. System

Use this form for all non-routine tasks to identify necessary safety controls and work practices.

CHECK ALL THAT APPLY AND DISCUSS - Write Notes/Procedure on Back

JOB/TASK Description,
W/O#: _____

1. DO I KNOW HOW TO DO IT SAFELY?

KNOWLEDGE - Trained-Authorized-Permitted

Does JHA exist? If None, does complete hazard analysis and procedure sections before doing work.

MSDS Review (Material) / ER Plan Equipment Operator - Yellow Tag Procedure

Electrical Qualified Person Fall Scaffold Competent Person

Rigging Rules for Handma Signals

2. AM I PREPARED TO DO IT SAFELY?

1.1.1.1.1. PREPARATION - Hazards Eliminated/Controlled-PPE-Tools-Team-Time

<input type="checkbox"/> Safety vest Hard hat Safety glasses Safety shoes Safety harness and leather work gloves	<input type="checkbox"/> Lockout/Tagout Empty Permit One Work Permit Fire Extinguisher Fire Vision CSC 500	<input type="checkbox"/> High Temp. Chart Structure Hazard Chart Electrical Task Hazard/PPE Chart	<input type="checkbox"/> Welding helmet Welding hood Leak shade Cutting Glasses Cutting Goggles Leak shade	<input type="checkbox"/> Welding gloves Shaded hand Leak shade Cutting Glasses Fire blankets Fire jackets Jackets	<input type="checkbox"/> Welded screen Protective Lenses Fire Blankets
<input type="checkbox"/> Inter-vented Goggles (Dry) (Liquid/Air Lenses)	<input type="checkbox"/> Non-vented Goggles (Dry) Face shield	<input type="checkbox"/> Eyes danger: Heat Shield/Screen face	<input type="checkbox"/> Cooling/heating Protection - Heat & Virus source MSD/MSDS	<input type="checkbox"/> Lockout/Tagout Lockout/Tagout MSD/MSDS	<input type="checkbox"/> Cooling/heating Protection - Heat & Virus source MSD/MSDS
<input type="checkbox"/> Bright tools use colored tools?	<input type="checkbox"/> Suction Air Respirator SCBA	<input type="checkbox"/> SCBA Respirator Cooling/Heating Face shield	<input type="checkbox"/> SCBA/MSD Resp. Full face Resp.	<input type="checkbox"/> SCBA/MSD Resp. Full face Resp.	<input type="checkbox"/> SCBA/MSD Resp. Full face Resp.
<input type="checkbox"/> Chemical-Resistant Suits Beach Chemical	<input type="checkbox"/> Chemical-Resistant Suits Beach Chemical	<input type="checkbox"/> Chemical-Resistant Suits Beach Chemical	<input type="checkbox"/> Chemical-Resistant Suits Beach Chemical	<input type="checkbox"/> Chemical-Resistant Suits Beach Chemical	<input type="checkbox"/> Chemical-Resistant Suits Beach Chemical
<input type="checkbox"/> Respiratory Hood/ Hood Covers-Covers	<input type="checkbox"/> Respiratory Hood/ Hood Covers-Covers	<input type="checkbox"/> Respiratory Hood/ Hood Covers-Covers	<input type="checkbox"/> Respiratory Hood/ Hood Covers-Covers	<input type="checkbox"/> Respiratory Hood/ Hood Covers-Covers	<input type="checkbox"/> Respiratory Hood/ Hood Covers-Covers
<input type="checkbox"/> Fall Protection Harness Other engineering Controls	<input type="checkbox"/> Fall Protection Harness Other engineering Controls	<input type="checkbox"/> Fall Protection Harness Other engineering Controls	<input type="checkbox"/> Fall Protection Harness Other engineering Controls	<input type="checkbox"/> Fall Protection Harness Other engineering Controls	<input type="checkbox"/> Fall Protection Harness Other engineering Controls
<input type="checkbox"/> Communication System First Aid Kit	<input type="checkbox"/> Communication System First Aid Kit	<input type="checkbox"/> Communication System First Aid Kit	<input type="checkbox"/> Communication System First Aid Kit	<input type="checkbox"/> Communication System First Aid Kit	<input type="checkbox"/> Communication System First Aid Kit
<input type="checkbox"/> First Aid Kit First Aid Kit	<input type="checkbox"/> First Aid Kit First Aid Kit	<input type="checkbox"/> First Aid Kit First Aid Kit	<input type="checkbox"/> First Aid Kit First Aid Kit	<input type="checkbox"/> First Aid Kit First Aid Kit	<input type="checkbox"/> First Aid Kit First Aid Kit

Form # FM-WOHS-4.3.1-2 VERIFY REVISION IN O-BOX BEFORE USE Rev. 1 Page 1 of 3

JOB HAZARD ANALYSIS

Hazard Types		Job Task:	Equipment #:
1. Contact (struck with/by)	6. Fall	Plant/Location:	Analysis done by:
2. Electrical	7. Overexertion		Reviewed by:
2a. Hydraulic	8. Inhalation	PPE Required above standard issue:	Date Initiated:
2b. Pneumatic	9. Thermal		Last Revised Date:
3. Spill Splash	10. Environmental	Tools:	Chemicals/L-IA-C-CR
4. Caught (in/on/between)	11. Physical		
5. Walking Surface	12. Radiation		
	13. Ergonomics		

#	Sequence of Job Steps	Potential Hazards	HT	Safe Job Procedure	Additional PPE
1.					
2.					
3.					
4.					
5.					

Form # FM-WOHS-4.3.1-2

7. Release Sequence

7.1. Visibly check equipment and work area to ensure all personnel and tools and materials are clear, equipment is operationally intact and all guards and other safety devices are properly installed.

7.2. Inform all affected employees that the Lockout/Tagout is being removed as follows:

- Control Room shall notify by radio all APOs, UOs, and Mechanics of the Lockout and receive confirmation before proceeding, etc.

7.3. Remove Lockout/Tagout as follows:

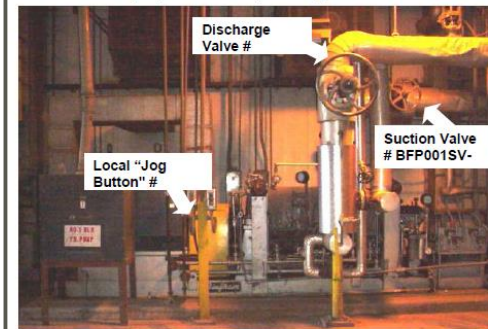
7.3.1. Verify equipment controls are in the de-energized or safe position.

- See SOP# BFP001 – Boiler Feed Pump Startup Sequence & Precautions. Remove Lock and open BFP Suction Valve # BFP001SV.

7.4. This is a Permit-Required Lockout – Return all Locks and Tags to Plant Operator.

8. ECP# (001) DIAGRAM

Use schematic or digital photo and identify isolation points for reference.



ENERGY CONTROL PROCEDURE APPROVAL

Operations Approval By: _____ Date: _____

Maintenance Approval By: _____ Date: _____

HARD COPY IS CONSIDERED REFERENCE ONLY, VERIFY REVISION IN O-BOX BEFORE USE

SAFETY MANAGEMENT SYSTEM

Safety Observations

- Routine, focused, process changes
- Reinforce positive behaviors, identify opportunities for improvement
- Promote team concepts-watch out for each other

The screenshot displays the VelocityEHS mobile application interface. The top section is titled "Observation Checklists" and "Electronic – VelocityEHS/Mobile App." The app logo "Wheelabrator TECHNOLOGIES" is in the top right corner. The main content is divided into two panels. The left panel shows a "Checklist" for "Safety observation details 51%". It lists various driving-related items with status indicators (blue checkmarks, grey X's, and grey circles). The right panel shows an "Observation (In Progress)" screen with a progress bar and several categories: "Safe Job Observation WTE US 0/36 Answered", "Observation Conducted during 0/5 Answered", "Job Focus 0/3 Answered", "Rules and Procedures 0/2 Answered", "PPE 0/2 Answered", and "Tools and Equipment 0/3 Answered". At the bottom of the right panel are "Submit" and "Save" buttons. A small number "5" is visible in the bottom right corner of the screenshot area.

SAFETY MANAGEMENT SYSTEM

Safety Committees


- **Employee Involvement and Communication**
 - Steering Team Coordinator/Dept. Chairs/Subcommittees
 - Safety Concerns
 - Track Performance
 - Hazards and Solutions
 - Incidents and Corrections
 - Inspections
 - Safe Job Evaluations
 - VPP Self-Evaluation Goals
 - SOP-PS Actions Picks

SAFETY MANAGEMENT SYSTEM


Training

- Site-Specific Training Plans
- New Employee On-Boarding
- Wheelabrator Academy Annual Training
- Safety Contacts
- Supervisors and Instructor-Led
- Learning Management System/Tracking





Safety Contact!



SHARPS PROTECTION


“SHARPS”

Sharp materials or “SHARPS” in the waste stream or processing equipment may cause injury and result in exposure to infection or bloodborne pathogens if contacted.

SHARPS Exposures

The Municipal Solid Waste (MSW) received at our waste-to-energy plants may contain SHARPS including:

- Syringes/Needles
- Glass
- Nails
- Wire
- Screws
- Razor blades
- Wood splinters
- Knives
- Banding
- Other sharp metal objects



SHARPS may be encountered in numerous locations within the waste processing equipment, from receiving on the Tipping Floor, through the combustion process, and in the ash removal system. As a reminder, see the attached list of typical locations where syringes, needles and other SHARPS may be encountered.

Syringes and needles are a primary concern due to potential bloodborne pathogen contamination. We have encountered syringes on river water intake screens, crane grapples, tipping floors and charging decks. Always treat syringes and needles as if contaminated even when they are in a container labeled “disinfected,” “sterilized,” or “treated” as to render the SHARPS as non-contaminated.

Tools and Equipment

When inspecting or handling MSW, use equipment and tools designed to eliminate personal contact with SHARPS such as:

- Shovels
- Rakes
- Pitchforks
- Scrapers
- “Pike” Poles
- Brooms
- Wash Hoses
- Pressure Washers
- Hand Tools

JHAs and Safe Work Practices


Ensure JHAs/Safe Work Plans have been developed for tasks in potential exposure areas and that the required PPE is specifically identified and used.

PPE

Never handle MSW with unprotected hands or intentionally walk on MSW. The use of puncture and cut-resistant approved gloves and puncture-resistant shoes are required for all personnel who could potentially contact MSW. Regarding gloves, always remember these three important glove safety rules:

- ✓ Use Your Gloves!
- ✓ Use The Right Gloves!
- ✓ Don't Put Your Hands Into Places You Can't See!

Following is the recommended general-use HexArmor glove that provides the highest available level of protection for SHARPS exposures: **HexArmor Hercules™ - Needle Stick Resistant (NSR) 3041**



In addition to gloves, some tasks may also require the use of cut/puncture-resistant sleeves, aprons, chaps, jackets, or mats. As always, refer to the job-specific JHA or consult your Supervisor for direction. When purchasing PPE, always refer to the Approved PPE list on OBOX and check with HQ Safety for items not listed.

Sharps Incident Response

If a SHARPS exposure incident occurs, report it to your Supervisor immediately so a post-exposure evaluation and follow up can be made available. There is no cost to the employee for the evaluation, laboratory tests, treatment or follow-up medical appointments. Contact WTI Medical or EHS management for guidance and additional information.

After a SHARPS incident, use a tool to handle the item and place it in a SHARPS “biohazard” or other rigid container for identification and disposal. Contact your site EHS Manager for specific disposal instructions.

All work-related needlestick injuries and cuts from SHARPS that could be contaminated with another person's blood or other potentially infectious material are OSHA recordable. To protect the employees' privacy, their name is kept on a separate privacy log maintained by WTI Medical.

Although not a common occurrence, SHARPS exposures can be serious...**Let's do all we can to eliminate “SHARPS” incidents!**

Page 1 of 2

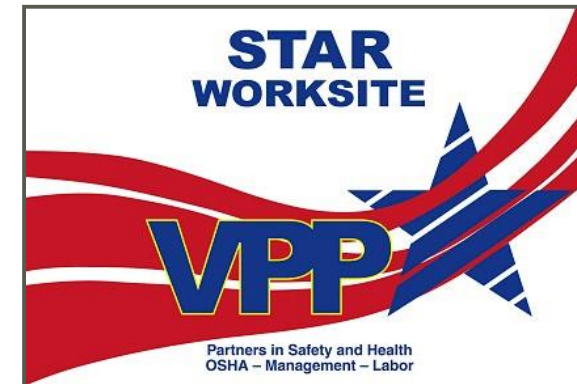
SAFETY MANAGEMENT SYSTEM

Audits and Inspections

- **External Audits**
 - AECOM/Third-Party Consultants
 - VPP Recertifications

- **Internal Audits**
 - Quarterly scored “1-Day “Snapshots”
 - Annual Safety Performance Reviews
 - VPP Readiness Reviews

- **Internal Inspections**
 - Periodic/Routine (through VelocityEHS)
 - WTI Internal VPP Readiness Reviews



SAFETY MANAGEMENT SYSTEM

Obligations Management System

- **Schedule**
- **Track**
- **Complete**
- **Record**

VelocityEHS


SAFETY MANAGEMENT SYSTEM

Medical Surveillance Program

- Pre-employment Physicals
- Periodic Physicals
- Biological Monitoring



- Human Maintenance System
 - Stretching
- Wellness Program



MEDICAL SURVEILLANCE

TYPES OF MEDICAL EVALUATIONS • OPERATIONS/MAINTENANCE PERSONNEL

TABLE OF CONTENTS


Baseline	Company Policy
	Objectives
	Components
	Reports
	Results
Annual	Company Policy
	Objectives
	Components
	Reports
	Results
Fitness for Duty	Company Policy
	Objectives
	Components
	Final Decision
Emergency – Cadmium	Company Policy
	Objectives
	Components
	Reports
	Results
Post-Exposure	Company Policy
	Objectives
	Components
	Reports
	Results
Exit	Company Policy
	Objectives
	Components
	Reports
	Results

SAFETY MANAGEMENT SYSTEM

Injury, Illness, and Incident Management (I-3)

- I-3 Required Actions
- Medical Info Release
- Return-To-Work Forms
- Workers Comp. Reporting
- First Report of Incident
- Root Cause Investigation
- Contractor Reporting
- Critical Incidents
- Near Miss Reporting

May 2015



**INJURY, ILLNESS AND INCIDENT MANAGEMENT
(I-3) REQUIRED ACTIONS WORKSHEET**

Site: 887-5392
 Organization ID No. WT1

Select the incident description that is applicable, and follow the steps noted in that section. Phone and e-mail contact information is listed on the last page of the Worksheet.

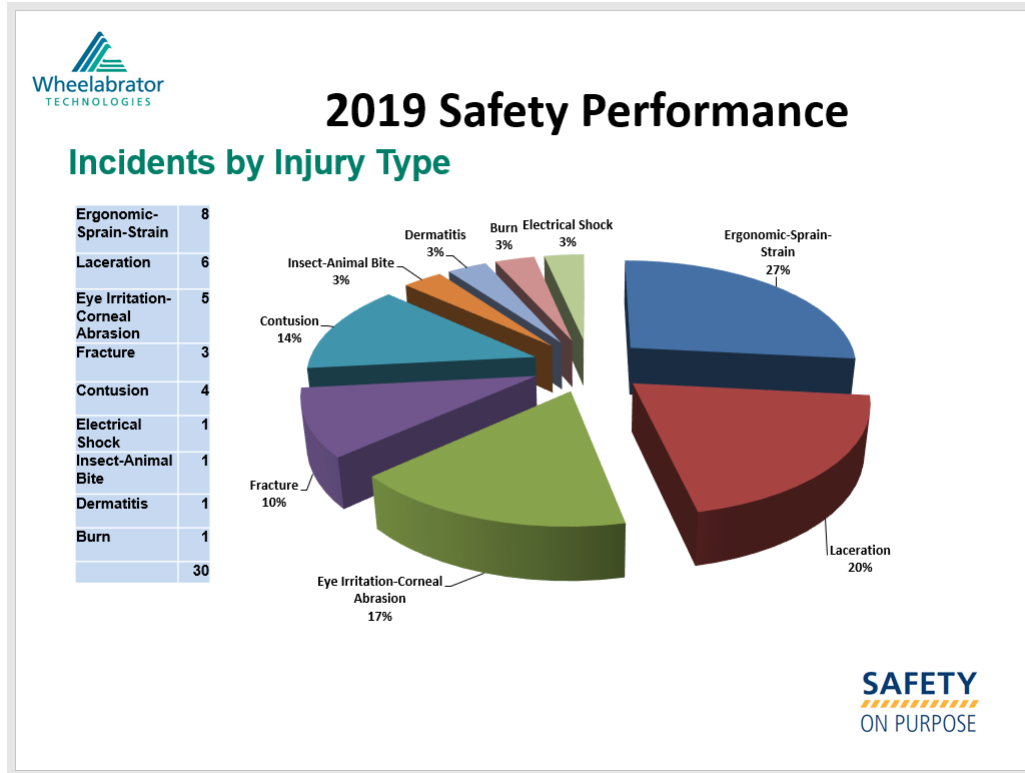
- Contact WTI Medical M.F. (800-539) if unsure employee needs medical care, or to report strains/sprains regardless of body part. For after hours medical guidance, call WTI Nurse, Tricia Longhook, at cell phone 603-886-2865.
- Note: The Plant Operator must respond in the event that the Shift Supervisor is injured.
- If any of the following conditions exist, employee must be sent to Clinic or Hospital for a medical evaluation.
 - 1) Employee receives an electrical shock.
 - 2) Vomiting or cramps related to heat stress.
 - 3) Headache or dizziness related to a head contact incident. Follow Sections C or applicable.
- In the event that Plant Management instructs the employee to seek further medical attention, but the employee declines, the employee must complete the **MEDICAL TREATMENT REFUSAL** form.
- REMINDER: Hazard(s) or conditions that caused, or contributed to the incident must be corrected, or an interim control provided (baricade tape, etc.), as soon as possible.

INCIDENT	IMMEDIATE	FOLLOW UP ACTIONS
A Employee verbally reports a NEAR MISS . Note: A Near Miss is defined as an incident with which does NOT result in personal injury, illness, or equipment damage, including: <ul style="list-style-type: none"> - Unsafe conditions - Unsafe behaviors that if left uncorrected could lead to an incident. - Events where an injury or illness could have occurred - Events where property damage could have resulted 	<ul style="list-style-type: none"> • Employee verbally reports Near Miss to Shift Supervisor • Employee completes First Report of Incident, Near Miss or Hazard • Employee and/or Shift Supervisor provides immediate corrective actions to hazards, as needed 	<ul style="list-style-type: none"> • Shift Supervisor reviews and forwards First Report of Incident, Near Miss or Hazard to OHS&ES Manager • OHS&ES Manager orders Near Miss information into KMI Database and determines if additional information gathering, witness statements, or investigation is needed. • NOTE: Verbal report any "Struck By" Near Miss on the Tipping Floor within 2 hours of occurrence to Hampton Risk Management, and Regional or Senior OHS Manager in accordance with the Critical Incident Reporting Protocol below.
B Employee reports or Plant Management becomes aware of a NON-WORK RELATED INJURY OR ILLNESS	<ul style="list-style-type: none"> • Shift Supervisor documents discussion with employee • Shift Supervisor reports discussion to OHS&ES Manager and Supervision Management 	<ul style="list-style-type: none"> • OHS&ES Manager or Supervision Management sends e-mails to Hampton Medical of the discussion. • Hampton Medical provides next steps to employee and Plant Management. • Hampton Medical may request a note from the employee's personal doctor stating employee can perform normal job duties, and/or schedule the employee for a fit for duty evaluation with contracted Clinic.
- Events where property damage could have resulted	<ul style="list-style-type: none"> • Shift Supervisor reports discussion of OHS&ES Manager and Supervision Management 	<ul style="list-style-type: none"> • OHS&ES Manager or Supervision Management sends e-mails to Hampton Medical of the discussion. • Hampton Medical provides next steps to employee and Plant Management. • Hampton Medical may request a note from the employee's personal doctor stating employee can perform normal job duties, and/or schedule the employee for a fit for duty evaluation with contracted Clinic.
REMOVED - SEE PREVIOUS VERSION	<ul style="list-style-type: none"> • Shift Supervisor reports discussion of OHS&ES Manager and Supervision Management 	<ul style="list-style-type: none"> • OHS&ES Manager or Supervision Management sends e-mails to Hampton Medical of the discussion. • Hampton Medical provides next steps to employee and Plant Management. • Hampton Medical may request a note from the employee's personal doctor stating employee can perform normal job duties, and/or schedule the employee for a fit for duty evaluation with contracted Clinic.

SAFETY MANAGEMENT SYSTEM

Statistical Analysis Review and Trending

- Body Part
- Injury Type
- Root Cause





www.wtienergy.com

At Wheelabrator,
nothing we do
is more important
than SAFETY.

Protecting the health and safety
of our employees and the
communities we serve is a
value we will not compromise.

We are proud to be part of
VPPPA, working collaboratively
to enhance and strengthen
workplace safety in the U.S.





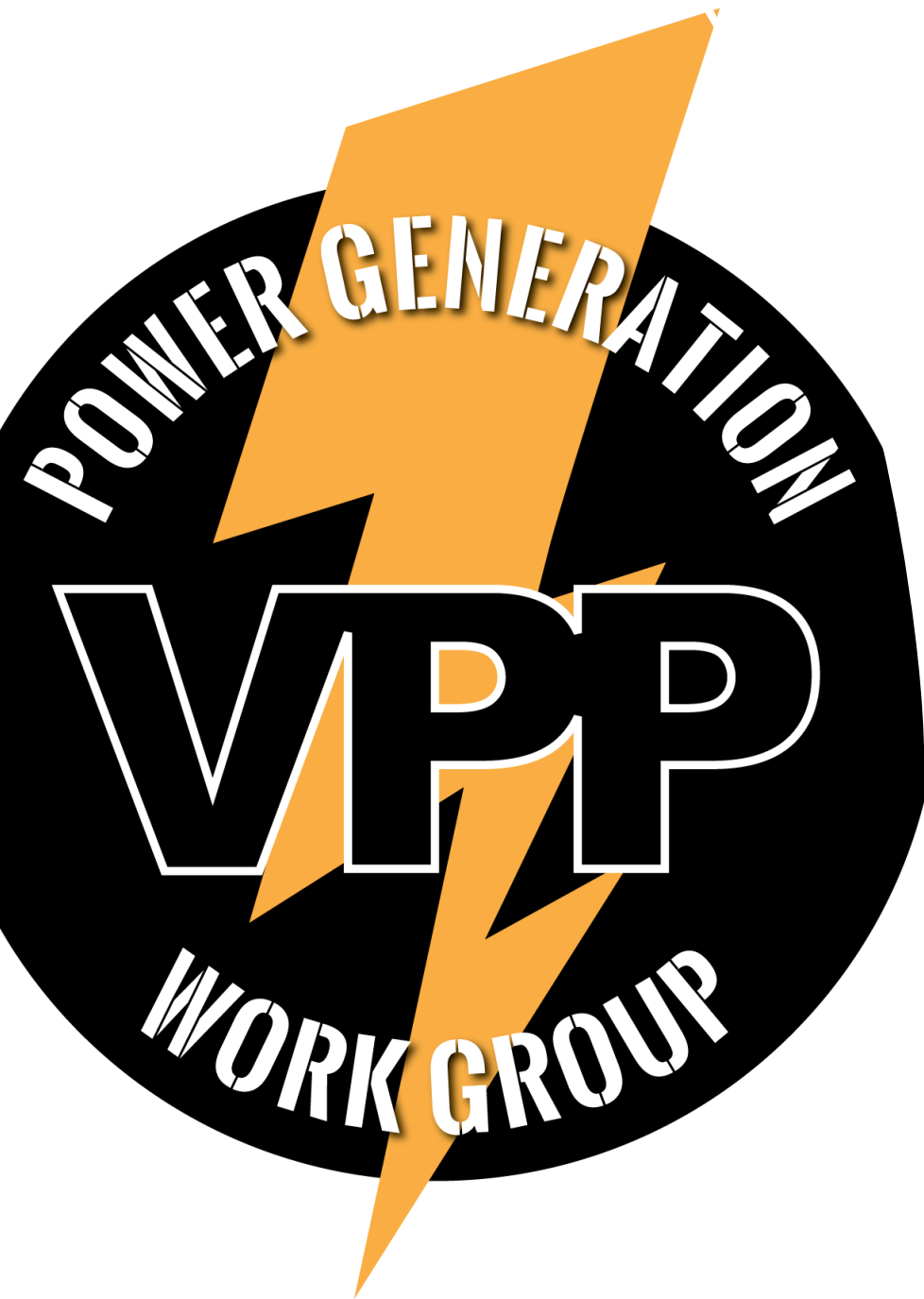
Pandemic Safety Discussion

Executive Order Protecting Worker Health

<https://www.whitehouse.gov/briefing-room/presidential-actions/2021/01/21/executive-order-protecting-worker-health-and-safety/>

What does it mean for Sites?

Will it require significant changes?



Participation Opportunities

Newsletter

Development and distribution of group information between meetings

Example: Oak Grove Power Plant, Franklin Texas

“The Oak Grove Spotlight”

Tim Newman



THE OAK GROVE SPOTLIGHT

"GROWING PEOPLE, GENERATING VALUE"

-OAK GROVE VISION STATEMENT-



Jeffery Tucker



VPP Spotlight

Here at Oak Grove we have taken on the very demanding, yet extremely rewarding task of being able to fly that VPP Star at the entrance. It may seem that nothing has been or is being done with VPP other than adding a bunch of signs and meetings regarding another acronym to remember. But I assure you that is not the case. We started off very strong, unfortunately the majority of the VPP process is paperwork. To put how much paperwork is necessary for VPP into perspective, imagine having to find a full manual for every little thing we have out here. Everything must be documented and organized for each step and for every process we have and do on daily basis here at Oak Grove.

Take a minute and ask yourself, Why shouldn't Oak Grove be the safest it could be. Why would I not want to work in a place that I consider one of the safest. We should already be there. It takes support from everyone. We have flaws, VPP is here to fix those, along with preventing us from becoming complacent.



Mike Cockerham

We work in a very demanding and rewarding workplace. As we strive to make our work environment as safe as possible the fact remains is that this is a dangerous place to work at times. We all work for the rewards we bring home to improve our quality of life for our families thus we need a safe workplace to ensure we get to enjoy these benefits. The VPP process is an added insurance to over see all our safety elements are met and maintained at the highest level.

By striving for the VPP Star we are committing ourselves to be open to ideas, listen to employee voices, involve the employees in helping to take the safety here at our plant to the highest level, beyond the minimum standards that OSHA sets for our industry. In doing so we help ensure each one of us goes home each day safely to our families allowing us to enjoy the future with them.

Yes, this is a slow process and a long road to travel down. Lots of documentation, training, learning, reaching out for help, and involving others (you) and we can get there with your help. Are we perfect? No, but with steady progress one thing at a time we can achieve success in reaching the VPP Star status and that will be something we all can be proud to achieve.

A few things that are being worked on currently:

1. Closing the fall hazards gap though out the plant.
2. Improving equipment guards.
3. Housekeeping
4. Signage and awareness
5. Employee involvement to the process
6. Recognition, acknowledgement and communication



BEST DEFENSE

Everyone wins. No one gets hurt.

The most valuable resource at Oak Grove is our people. That's why we only accept the highest standards to keep our people safe and operate under the philosophy of *Best Defense*.

"Safety is not the absence of accidents; Safety is the presence of defenses" - Dr. Todd Conklin

Trivia - The three stars on the logo are significant because they represent three key components of our safety approach: People (HPI), Process (BBS), Programs (VPP).



Tim Newman

IF YOU'RE NOT PREVENTING, YOUR PROMOTING.

Plant Director

What a year it has been; Coronavirus, murder homets, fires and hurricanes! It would be very easy to be distracted by all of these things in addition to our plant challenges, but you have continued to work safely (even while wearing face coverings). It is the work that you do that truly make Oak Grove a safe place to work.

We are also continuing to work on improving and making Oak Grove even safer for all of us. The OSHA VPP program is about employee engagement to identify and remove hazards. The BBS and VPP teams are working together on these hazard elimination efforts. We have a monthly meeting with the BBS, VPP and plant management team to discuss and review BBS observation data and feedback from the crews. Together this team sets priorities and makes commitments on improvement items. If you are not already participating, please consider performing a BBS observation to help reinforce a safe behavior or identify an unsafe condition. Let us know where you are concerned about getting hurt.

Thank you again for working safely to Power Texas!



Erick Dieperink



What does BBS do for Oak Grove?

Behavior Based Safety is a process for the safety of the people, by the people. There are two basic categories of observations, behavioral and physical. This committee here at Oak Grove is committed to taking your physical at-risk observations and making them safe. We do this by first, reviewing all the observations marked "Follow up – Yes". During the reviewing process we will discuss each observation and see what ideas we can come up with to mitigate the concern. Sometimes these observations have solutions attached, in these cases we will continue to follow the status of each concern until we see it through to completion. Once completed we will attempt to follow up with the individual who entered the observation and confirm their concern has been mitigated.

As for the behavioral observations. Most safety topics around here are pretty random or maybe weather related at best. They are also topics we all are familiar with, we just need reminders occasionally, to keep this information fresh on our minds. This is where the "Top 3 At-risk" behaviors comes into play. These are the closest we can get to seeing what "topics" need to be refreshed in our minds, by what you are seeing take place in the field.

BBS is here to help change the way you think about performing a task safely and how you see co-workers performing their task. You know how when you get home from the grocery store and suddenly there is this instant challenge of "bet you can't get 'all in two trips'? So, you have 9 bags on your strong arm and 7 on the other. What if I came up to you as you were carrying those 16 bags and said "Hey let me give you a hand. You might pull a muscle or strain your back." What do you think the very first thing (or close second) is going to pop in your head next time you grab a handful of bags?...

Now this is where human nature kicks in. BBS can't make you do the right thing, but it can make you think twice before you make your decision. Don't take the risk... its one extra trip or calling somebody for a hand. Oak Grove is very fortunate to have a "take the time to do it safe" culture, let's make sure we are holding ourselves and each other accountable to this. You are the one who stands to lose!



BBS Facilitator

Joey Redden – I have worked for Luminant for 7 years. I started out back in material handling. I was there for 5 ½ years, I shortly worked the power block before I accepted a position in the Chem/Env Lab. I have been in this role for about a year now and have been the BBS Facilitator for nearly 3 years.

Outside of work, I have been married for 11 years to my wife Brittany. We have two kids, my son is 3y and my daughter is 6y. We worship and serve at First Baptist Franklin, in Franklin. We are graduates of FHS, class of 2006. We as a family enjoy taking road trips and going to new places. While at home we enjoy being outside and working on projects together.

To me, I take safety personally because my family is counting on me to provide for them. I have learned a lot after becoming a parent and seeing how my kids watch and do the things I do. So, I challenge myself to make the safe decision and make sure my kids see me making these decisions. This way hopefully they too will make the right decision.

Employee Spotlight

1. What is your favorite thing about working at Oak Grove?
2. How long have you worked here?
3. Tell us about your immediate family.
4. If there is one thing you could do to help more, What would it be?
5. Last and Most important, what does Safety, B.B.S., and V.P.P. mean to you?



Josh Spiller

- Favorite thing about Oak Grove is everything.
- I have worked at Oak Grove for 7 years.
- Living life in a travel trailer with my wife , Nicole, Holden, 6, and Kase, 1.
- Do everything I can to the best of my ability and what I have to work with.
- Safety to me means going home the same way I can to work along with keeping everyone safe around me.



Justin Spiller

- The new friends I've made and being able to support my family 13 miles from home.
- I have worked at Oak Grove for 10 years.
- Wife Amanda and son, Connor.
- Dedicate more to time to investing opportunities for improvement.
- To me they're all vital ways to ensure both myself and the friends I've made here go home to their families the same way that showed up. Owning your own safety, B.E.E.S. allows us an avenue to look out for our peers, and VPP ensure we actively approach any deficiencies throughout the plant.



Rodger White

- My friends and work family
- I have worked at Oak Grove in the warehouse for 9 years.
- My wife Paula and kids, Michelle, Josh and Sarah.
- Keep a positive attitude and SMILE it contagious.
- Makes the work place safe for all of us. Do your part!



Daniel Shaw

- Knowing that I am part of a strong company and excellent team, knowing the contributions and hard work we put in provide an extremely valuable service to our communities, provide for our families and help keep the state of TX running.
- I have worked at Oak Grove for 10 years.
- My wife Chasity and kids Jaylyn, Drew, Danni and Caydyn.
- Continue to help find ways to keep Oak Grove running efficiently as possible and help make sure we stay ahead with the ever-changing dynamics of the energy business.
- At the end of the day the all push us towards the same goal to give us the knowledge, ability and help create a culture where the plant is a safe place to work.



Participation Opportunities

Newsletter

Development and distribution of group information between meetings

Example: Oak Grove Power Plant, Franklin Texas

Quarterly Meeting Planning

Quarterly meeting development and planning

March 18th, 2021 @ 1400 (eastern)

VPPA Conference Presentations

Develop presentations for delivery at both Regional and National VPPA conferences

2021 VPPPA Conferences

- “Next Level Safety 2021”
 - Virtual Conference
 - April 20th and 21st, 2021
 - <https://web.cvent.com/event/d4490f2b-6218-43b5-a494-dcad09b52e52/websitePage:645d57e4-75eb-4769-b2c0-f201a0bfc6ce>
- VPPPA Nation Conference
 - Nashville, TN
 - August 31st – September 2nd, 2021





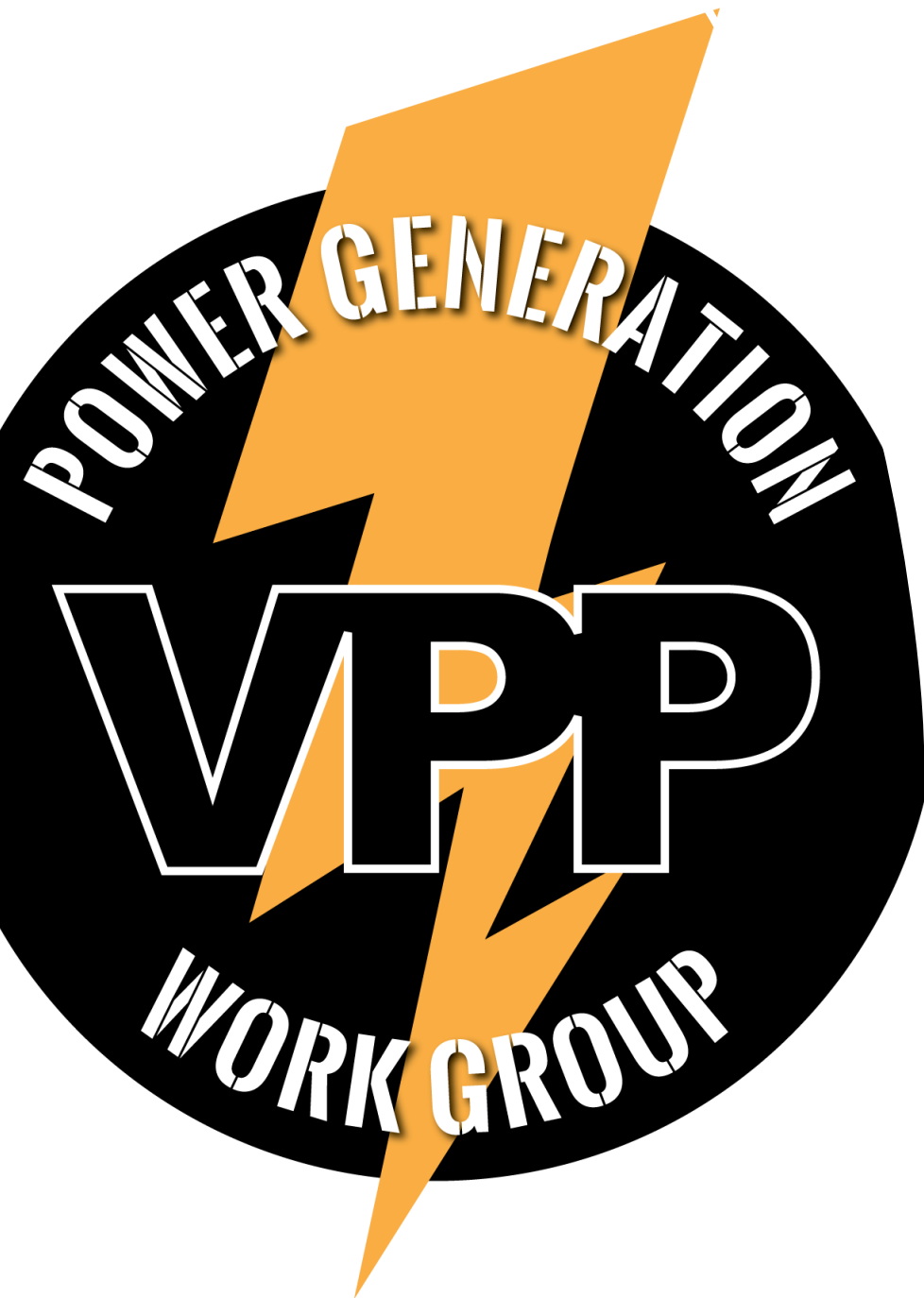
Open Discussion

Questions?

Suggestions?

Discussion points?





Next Call : May 20th , 2021

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.

NEED VOLUNTEERS FOR:

- Safety Moment
- Note taker
- Group discussion topics



Send Suggestions or offers to volunteer to:

Alex Miller – alexander.miller@vistracorp.com

Or

Kelli Heflin – Kelli.Heflin@OnwardEnergy.com

2021 Meeting Schedule

February 18th

May 20th

August 19th

November 18th

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

